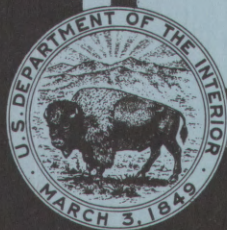
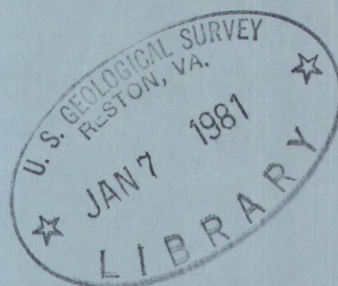


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Water Resources Data for Utah

Part 1. Surface Water Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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1974

Water Resources Data

for

Utah

Part 1. Surface Water Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

II

Prepared in cooperation with

Utah State Department of Natural Resources
Bear River Commission
Salt Lake County
Bureau of Reclamation, U.S. Department of Interior
Soil Conservation Service, U.S. Department of Agriculture
Corps of Engineers, U.S. Army

Water-quality records for some of the gaging-station sites in
this report will be contained in:

Water Resources Data for Utah, 1974
Part 2: Water Quality Records

Copies of this report may be obtained from

District Chief, Water Resources Division
U.S. Geological Survey
8002 Federal Building
125 South State Street
Salt Lake City, Utah 84138

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The classification of gaging stations^{1/} in the table of contents is indicated by letters in parentheses following the station name. These symbols are: (B) Benchmark or long-term change; (C) current-purpose; (P) principal stream; (H) hydrologic; (R) regulated.

^{1/} See "Classification of gaging stations" in section "Definition of terms and abbreviations."

By Leon J. Jensen, Wallace N. Jibson, and Dayl J. Webb

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1974 water year for gaging stations, partial-record stations, for miscellaneous sites within the State of Utah, and for selected gaging stations in bordering states are presented in this report. (See figs. 1 and 3.) The records for Utah, except those obtained in connection with Federal Power Commission projects, were collected and computed by the Water Resources Division of the U.S. Geological Survey, under the direction of Ted Arnow, District Chief. Utah District personnel who contributed significantly to the collection and preparation of data included in this report were Reinhart T. Kowallis, George W. Sandberg, George A. Birdwell, Fred K. Fields, Nick Panas, V. Lambert Jensen, George E. Pyper, Larry R. Herbert, Elmer C. Gerhart, Michael D. ReMillard, Mary G. Rudy, Glenn C. Anderson, Richard B. Garrett, Jack W. Phrson, Larry J. Neff, E. Blaine Johnson, Jerry C. McNeely, James M. Konopinski, and Pauline A. Adams.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Since 1951 there have been 20 volumes in the series; each volume covered an area whose boundaries coincided with those of certain natural drainage areas. Parts 9, 10, and 13 of that series contain the records for Utah.

Beginning with the 1961 water year, surface-water records and related data were released by the Geological Survey in annual reports on a state-boundary basis. Distribution of these basic-data reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. These records will be published later in Geological Survey water-supply papers at 5-year intervals. These 5-year water-supply papers will show daily discharges and will be compiled on the same geographical areas used previously for the annual series; however, some of the 14 parts of the conterminous United States have been further subdivided into 35 volumes.

COOPERATION

Cooperative agreements between the U.S. Geological Survey and the State of Utah for the systematic collection of streamflow records began in 1909. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreements with the Survey were:

Department of Natural Resources, Gordon E. Harmston, Executive
Director

Division of Water Rights, D. C. Hansen, State Engineer
Division of Water Resources, D. F. Lawrence, Director

Bear River Commission, E. O. Larson, Chairman

Salt Lake County Commission, R. Y. McClure, Chairman

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of Interior, in collecting records for 13 gaging stations; by the Soil Conservation Service, U.S. Department of Agriculture, for one gaging station; by the Bureau of Land Management, U.S. Department of Interior, for one gaging station; and by the Corps of Engineers, U.S. Army, for one gaging station. Records for eight gaging stations in Idaho in the Bear River Basin, and one in Utah were collected by the Utah Power and Light Company under F.P.C. License.

Other District offices of the U.S. Geological Survey, Water Resources Division, obtained the records listed below that are included in this report:

Arizona District.-Colorado River at Lees Ferry, Arizona
Lake Powell at Glen Canyon Dam, Arizona
Paria River at Lees Ferry, Arizona

Colorado District.-Colorado River near Colorado-Utah State Line

Nevada District.-Virgin River at Littlefield, Arizona

Wyoming District.-Blacks Fork near Millburne, Wyoming
Burnt Fork near Burntfork, Wyoming
East Fork of Smith Fork, near Robertson, Wyoming
Green River near Green River, Wyoming
Henrys Fork near Manila, Utah
West Fork of Smith Fork, near Robertson, Wyoming

New Mexico District.-- San Juan River at Shiprock, New Mexico

Records for all stream-gaging stations operated by the Geological Survey in the Bear River basin in Utah, Idaho, and Wyoming are included in this report.

DEFINITION OF TERMS AND ABBREVIATIONS

Hydrologic terms, 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.

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.

Classification of gaging stations (B) Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from man-made 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. (C) Current-purpose station is one that is used to collect streamflow data at many sites for uses such as day-to-day or week-to-week decisions on water management, assessment of water availability, the management of water quality, the forecast of water hazards, and the surveillance necessary to comply with legal requirements. (P) Principal station is one to meet the objective of measuring principal unregulated streams. (H) A hydrologic station is to meet the objective of defining regional streamflow characteristics except when the station is classified as P. (R) A regulated stream station is required for systems analysis of a regulated stream to meet the objective of defining regulated flow.

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, a uniform cross section over a long reach of the channel, or an artificial structure.

Cubic foot per second (CFS) is the rate of discharge of a stream whose channel is 1 square foot in cross-sectional area and whose average velocity is 1 foot per 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 and sediment), that passes a given point within a given period of time.

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 more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

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

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

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.

Water Year in Geological Survey reports on surface-water supply, is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending Sept. 30, 1974, is called the "1974 water year".

DOWNSTREAM ORDER AND STATION NUMBERS

Stations are listed in the same downstream order used in the water-supply papers. Records are listed in a downstream direction along the main stem with all stations on a tributary entering above a main-stem station listed before that station. If a tributary enters between two main-stem stations, it is listed between them. A similar order is followed listing stations on first rank, second rank, and other ranks of tributaries. To indicate the rank of any tributary on which a gaging station is situated and the stream to which it is immediately tributary, each indentation in the listing of gaging stations in the table of contents of this report represents one rank. This downstream order and system of indentation shows which gaging stations are on tributaries between any two stations on a main stem and the rank of the tributary on which each gaging station is situated.

As an added means of identification, each gaging station has been assigned a station number. The numbers have been assigned to conform with the standard downstream order of listing gaging stations. The numbering system consists of an 8-digit number for each station, for example, 09180500. The first 2 digits (09) represent the part number identifying the part or hydrologic region used by the Geological Survey for reporting hydrologic data. The next 6 digits represent the position of the location in a downstream order.

The assigned numbers are in numerical order but are not consecutive. They are so selected from the complete 8-digit number scale that intervening numbers will be available for future assignments to new locations. The identification number for each station in this report is printed to the left of the station name. All records for a drainage basin encompassing more than one state could be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The basic data collected at gaging stations consist of records of stage and measurements of discharge. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement basic data in determining the daily flow. Records of stage are obtained from a water-stage recorder that gives a continuous chart, from a digital water-stage recorder that produces a punched tape of the stage fluctuations at predetermined intervals or from direct readings on a non-recording gage. Measurements of discharge are made with a current meter by 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 on the measurement of stream discharge. (See also SELECTED REFERENCES.)

Rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage height to those rating tables gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. 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 hydrologists 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 the shifting-control method.

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

At some gaging stations no gage-height record or punch tape is obtained during some periods, or the recorded gage height is so faulty that it cannot be used to compute the daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, 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.

The data in this report generally comprise a description of the station and a table showing the daily, monthly, and yearly discharges of the stream. Records are published for the water year which begins on October 1 and ends on September 30. A calendar for the 1974 water year is shown on back of front cover to facilitate finding the day of the week for any date.

The description of the station gives the location, drainage area, records available, type and history of gages, average discharge, extremes of discharge, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Under "PERIOD OF RECORD" are given periods for which there are published records for the present station or for stations generally equivalent to the present one. Under "GAGE" are given the type of gage currently in use and the datum or altitude of the gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of records available. In reference 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. Under "AVERAGE DISCHARGE" is given the average discharge for the number of years indicated. It is not given for stations having fewer than five complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given the maximum discharge (or contents) and gage height; the minimum discharge (or contents) if there is little or no regulation; the minimum daily discharge if there is extensive regulation (also the minimum discharge if useful); and the minimum gage height if it is significant. In the first paragraph, the

data given are for the complete current water year unless otherwise specified. In the second paragraph, the data given are for the periods of record within the calendar year dates in the "PERIOD OF RECORD" paragraph (not necessarily those for the complete years indicated by the heading dates). Reliable information concerning major floods that have occurred outside the period of record are given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder, a crest-stage gage, or a nonrecording gage read at the time of the crest. Digital recorders are equipped with a float-type indicator which records the maximum stage occurring since the previous visit. If the maximum gage height did not occur at the same time as the maximum discharge, it is usually given separately. Information pertaining to the accuracy of the records and to conditions which affect the natural flow at the gaging station is 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 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. For all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

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

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading.

In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures; it is the total cfs-days for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The line headed "MAX" gives the highest daily mean discharge for each month. The line headed "MIN" gives the lowest daily mean discharge for each 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 of maximum are the maximum mean daily discharges, not the momentary discharges when the water was at crest stage. Likewise, the minimums in this summary are the minimum mean daily discharges.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a table showing daily contents. For some reservoirs a monthly summary table of stage and contents is given. For Great Salt Lake a table shows the semi-monthly gage height and elevation. For reservoir stations, the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month; the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and the times of their occurrence and corresponding gage heights for most 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 canals, ditches, or drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE", certain periods are indicated 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 are indicated only if they are a month or more in length and the accuracy of the record 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.

Accuracy of Data

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

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

Discharge at some stations, as indicated by the monthly mean, may vary widely from natural runoff, due to the effects of diversion, consumptive use, 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.

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 (this is done as a matter of uniformity in the computer program and should not be construed to indicate an accuracy greater than that used in the past). These figures are shown 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 apply to discharge figures listed for partial-record stations and miscellaneous sites.

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1960, to September 30, 1965, also will include lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1313, 1314, and 1317; records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1733, 1734, and 1737. 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 re-examined 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.

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

Data collected at miscellaneous sites are given at the end of this report.

Information more detailed than that published for most of the gaging stations is on file in the district office, such as discharge measurements and recorder charts, and tapes or nonrecording-gage readings. Some gaging-station records in the State have been analyzed with an electronic computer to give: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, on suspended-sediment concentration, and on the particle-size distribution of suspended sediment and bed material. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

HYDROLOGIC CONDITIONS

Streamflow during the current water year varied from above normal in the northern and central parts of the State, to below normal in the extreme southern part of the state, and in the Uinta Basin. Flow as measured at the seven key gaging stations averaged 98 percent of the 1941-70 medians, compared to 141 percent a year ago. Figure 3 shows comparison of discharge during the 1974 water year with median discharge for a 3-year period at three of the key gaging stations.

The water year started with all key stations having above-normal flow for October, except Beaver River near Beaver which was 88 percent of median, and Whiterocks River near Whiterocks which was 94 percent of median.

The Great Salt Lake reached its seasonal low September 15, 1973, and was at elevation 4,199.15 feet above mean sea level, 1.25 feet higher than a year ago, and 7.80 feet above the alltime record low of October 1963.

Streamflow into Lake Powell from the three main tributaries averaged 102 percent of median. The flow of Green River at Green River, Utah was 105 percent of median, Colorado River near Cisco, Utah was 100 percent of median, and San Juan River near Bluff was 101 percent of median (all adjusted for upstream storage). In the north-central part of the State streamflow averaged 126 percent of median. The flows of the Logan River above state dam near Logan, the South Fork Ogden River near Huntsville, and the Weber River near Oakley were 133, 141, and 117 percent respectively. The flow of Spanish Fork at Thistle was 136 percent of median. In the Sevier River Basin, runoff averaged above normal, ranging from 164 percent at Sevier River near Gunnison to 61 percent at East Fork Sevier River near Rubys Inn. On March 5, 300 cfs of water was being diverted into Sevier Lake, and by March 12 the amount released had risen to 500 cfs. This is the first time since 1922 that any large quantities have been released into the lake. Only two times since 1922 have flows from Sevier River reached the Sevier Lake. A small amount was diverted in 1948 and 1973. In the Southwestern part of the state, runoff was below normal. Flows at Beaver River near Beaver, Coal Creek near Cedar City, and North Fork Virgin River near Springdale were below median, 87, 68, and 68 percent respectively of the 1941-70 medians.

Storage water in 27 major reservoirs of Utah (excluding Flaming Gorge Reservoir and Lake Powell) at the end of 1974 water year was 2,618,730 acre-feet (64 percent of capacity). This is a decrease of 442,790 acre-feet of water stored at the close of 1973 water year. Storage in most of the principal reservoirs of the state exceeded the 1958-72 average content. The three major reservoirs in the Sevier River Basin (Otter Creek, Piute, and Sevier Bridge) contained 124,100 acre-feet, or 177 percent of 1958-72 average contents. Usable content in Bear Lake was 1,105,650 acre-feet (112 percent of the 1958-72 average content) compared to 1,154,000 acre-feet a year ago.

The storage in Flaming Gorge Reservoir and Lake Powell, at the close of the 1974 water year, was 21,593,000 acre-feet, 75 percent of capacity and an increase of 1,129,000 acre-feet from last year. Flaming Gorge Reservoir was full for the first time since storage began November 1, 1962, with a usable capacity of 3,749,000 acre-feet on August 1, 1974.

The elevation of Great Salt Lake reached a seasonal high of 4,201.30 feet above mean sea level on June 1, 1974. This is the highest elevation reached, in 45 years, since July 1929. That elevation is about 9.7 feet below the highest historical level reached by the lake--4,211 feet in 1873--and is about 1.2 feet higher than the elevation of the lake when the Mormon pioneers entered the area in 1947. This elevation is 0.75 foot higher than a year ago, and 9.95 feet above the alltime record low of October 1963.

Thunderstorms produced localized floods during the midsummer, but floods were not as numerous as in some years.

DISCHARGE RECORDS COLLECTED BY AGENCIES OTHER THAN
THE GEOLOGICAL SURVEY

Records of discharge not published by the Geological Survey, but for which an index is maintained by the office of Water Data Coordination, were collected in Utah by the following agencies at 28 sites during the 1974 water year: Records at 11 sites were collected by the Forest Service, at 5 sites by the Weber River Distribution System, at 3 sites by the Bureau of Reclamation; and at 2 sites each by the following: Ogden Bay Water Fowl Management Area, Ogden River Water Users, and Salt Lake County Water Conservancy District; and at one site each by the following: Clear Lake Waterfowl Management Area, Metropolitan Water District of Salt Lake City, and Utah Department of Natural Resources. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22092, maintains an index of these sites. Information on records of specific sites can be obtained from that office upon request.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Table 1.--Factors for converting English units to International System (SI) units

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

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

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

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

Figure 1.—Map of Utah showing location of active gaging stations.

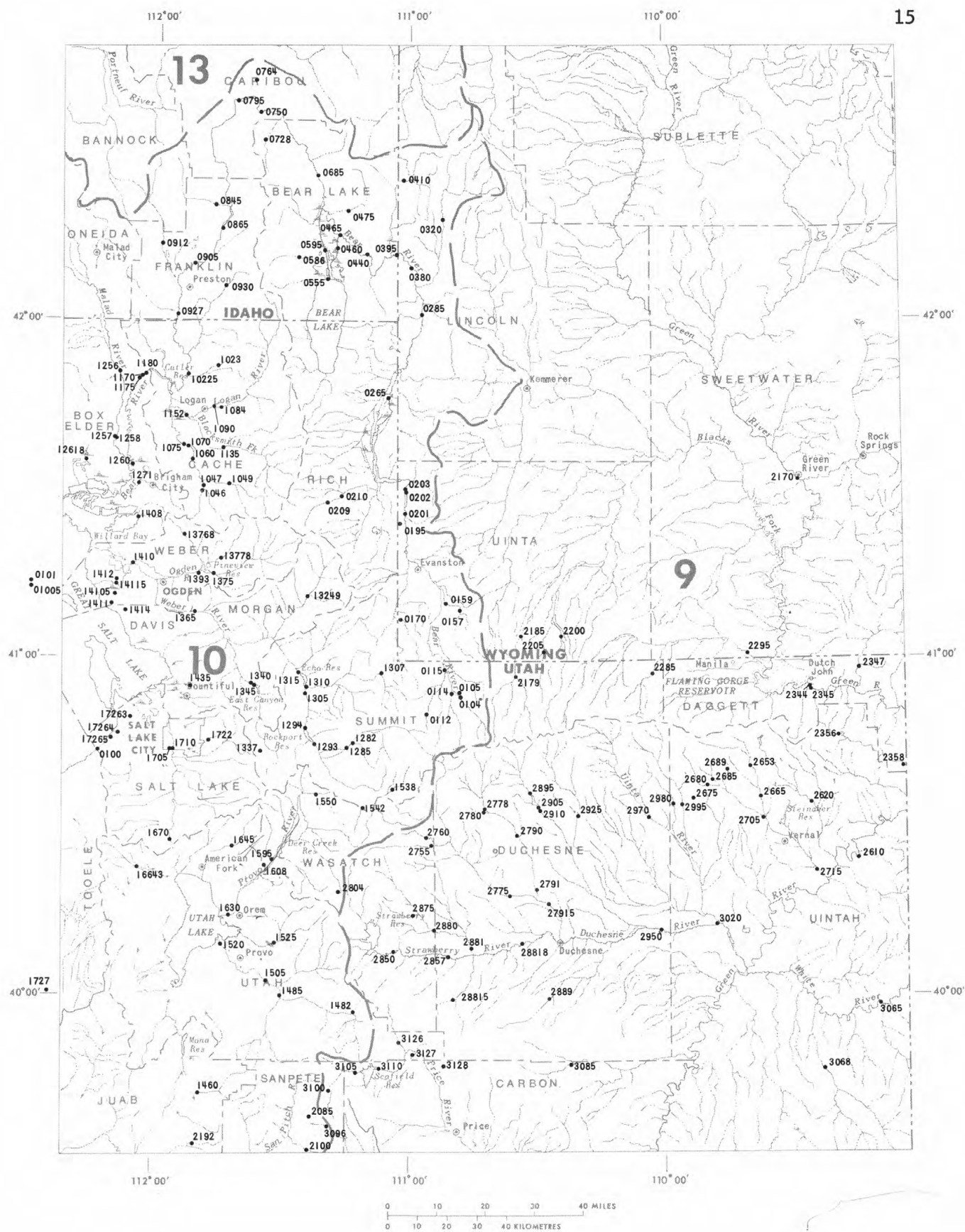


Figure 1.— Continued.

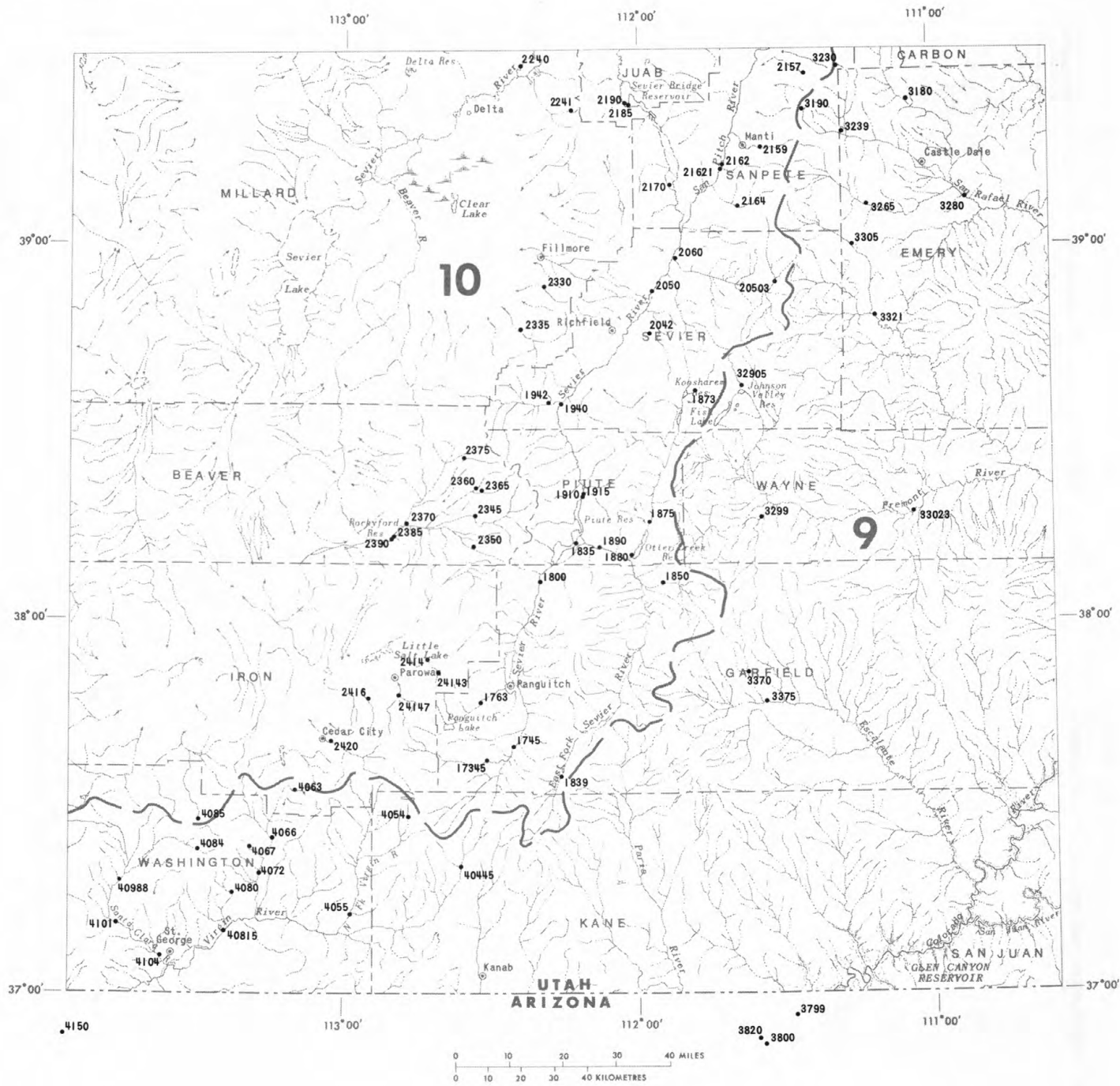


Figure 1.— Continued.

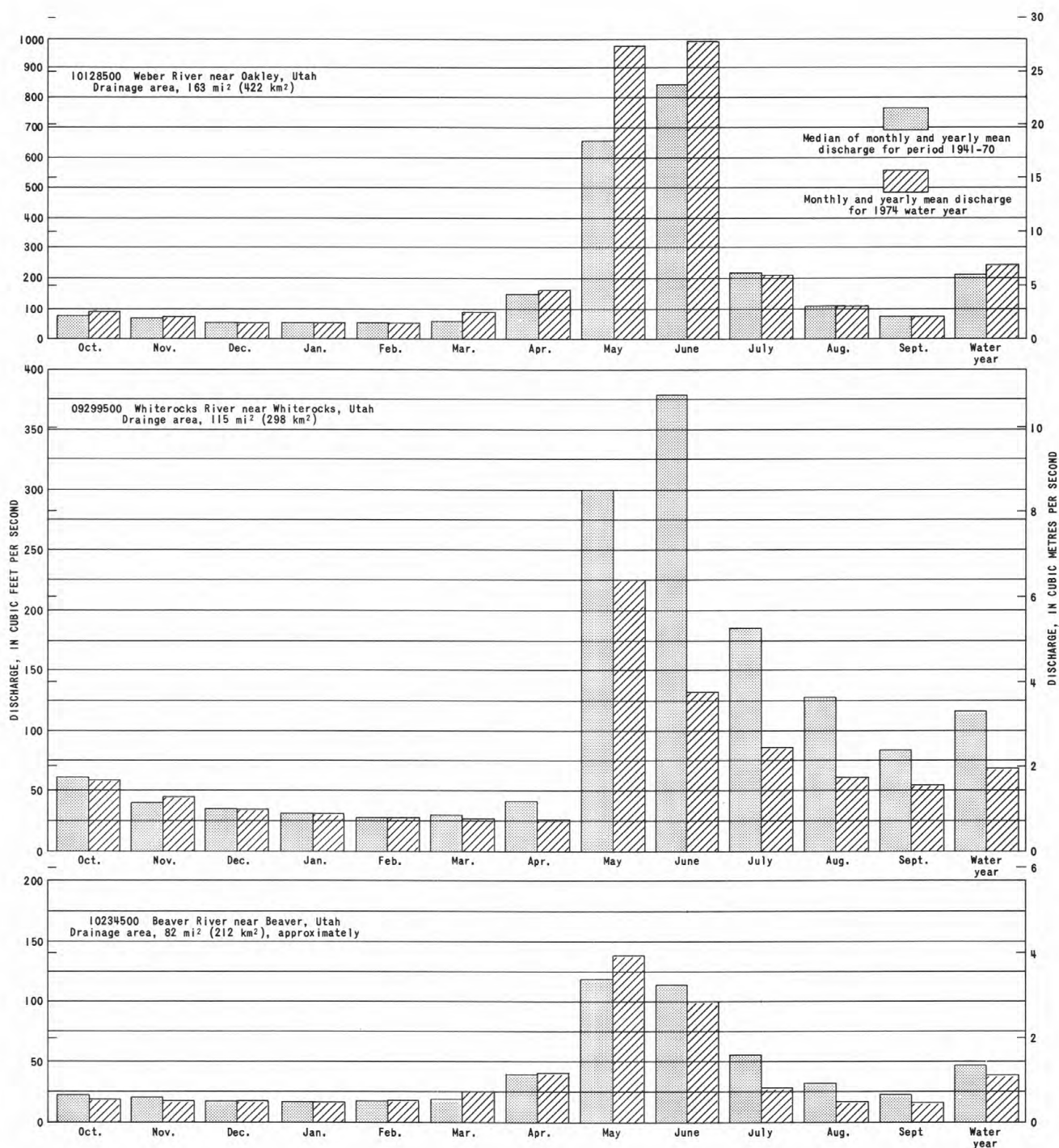


Figure 2.—Comparison of discharge at three long-term representative gaging stations during the 1974 water year with median discharge for period 1941-70.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°10'00", long 108°57'26", in SE¼SE¼ sec.23, T.10 S., R.104 W., Mesa County, on right bank 4.8 mi (7.7 km) downstream from Salt Creek, 6.3 mi (10.1 km) southwest of Mack, Colo., and 7.2 mi (11.6 km) upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,764 mi² or 46,009 km² (revised).

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,365 ft (1,330 m) from topographic map.

AVERAGE DISCHARGE.--23 years, 5,816 ft³/s (164.7 m³/s), 4,214,000 acre-ft/yr (5,200 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22,800 ft³/s (646 m³/s) May 11 (gage height, 10.11 ft or 3.082 m); minimum daily, 1,850 ft³/s (52.4 m³/s) Aug. 31.
Period of record: Maximum discharge, 56,800 ft³/s (1,610 m³/s) June 9, 1957 (gage height, 16.40 ft or 4.999 m); minimum daily, 960 ft³/s (27.2 m³/s) Sept. 7, 1956.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, and diversions for irrigation. (Records include all return flow from irrigated areas.)
Water-quality records for the current year are published in Part 2 of this report, as "below Colorado-Utah State line."

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,570	5,120	4,740	5,120	5,470	5,700	5,920	9,340	16,790	8,140	3,280	1,910
2	3,490	5,000	4,880	4,850	5,350	6,640	5,870	10,100	14,800	7,210	3,150	1,990
3	3,450	3,630	4,950	4,560	5,260	8,200	5,820	11,300	13,700	6,270	3,040	1,990
4	3,470	3,430	4,830	4,390	5,200	6,910	5,310	11,800	13,000	5,480	3,060	1,980
5	3,320	3,650	4,720	4,600	5,030	6,070	4,670	13,200	11,800	4,920	3,080	2,080
6	3,350	3,530	4,490	4,810	5,570	5,840	4,390	13,700	12,200	4,580	2,920	2,090
7	3,370	3,450	4,160	4,950	5,430	5,970	4,430	14,700	12,600	5,020	2,690	2,160
8	3,320	3,450	4,140	5,140	5,400	6,120	4,470	16,300	11,500	5,120	2,710	2,160
9	3,550	3,470	4,280	5,170	4,970	6,100	5,890	18,000	10,800	4,560	2,660	2,160
10	3,770	3,410	4,410	5,180	5,130	6,460	3,830	21,100	10,100	3,890	3,080	2,170
11	3,930	3,260	4,280	5,150	5,010	6,370	3,930	22,400	9,370	3,890	3,730	2,150
12	4,070	3,410	4,260	5,220	5,120	6,270	3,610	21,600	9,180	3,710	3,510	2,170
13	4,200	3,390	4,450	5,290	5,400	6,140	3,570	20,800	9,720	3,430	3,150	2,280
14	4,220	3,390	4,560	5,360	5,400	5,600	3,790	19,900	11,000	3,260	2,920	2,440
15	4,200	3,340	4,520	5,430	5,380	5,450	3,710	16,300	12,000	3,280	2,620	2,810
16	4,140	3,340	4,300	5,510	5,360	5,550	3,590	14,300	13,100	3,370	2,360	3,350
17	4,090	3,470	4,160	5,200	5,430	5,800	3,530	15,100	13,300	3,570	2,220	3,590
18	4,010	4,470	4,450	5,120	5,450	6,140	3,710	16,300	13,700	3,970	2,220	3,530
19	3,910	4,920	5,090	4,940	5,550	6,240	4,160	15,500	13,500	5,870	2,220	3,450
20	4,070	4,920	5,280	5,460	5,550	6,580	5,140	16,200	14,400	5,280	2,200	3,350
21	4,090	4,880	5,140	5,630	5,550	6,240	5,020	15,400	13,700	4,880	2,090	3,350
22	4,070	4,830	5,070	5,340	5,430	5,720	4,580	13,200	13,600	5,070	2,060	3,170
23	4,070	4,780	4,950	5,330	5,380	5,430	4,280	11,800	13,400	5,920	2,130	3,220
24	4,200	4,580	5,310	5,300	5,310	6,430	4,810	11,200	12,500	6,120	2,060	3,170
25	4,320	4,880	5,360	4,800	5,160	5,380	5,870	11,300	12,000	5,940	2,030	3,010
26	4,340	5,000	5,330	5,000	5,260	4,810	7,450	11,400	11,300	5,310	1,990	2,970
27	4,320	4,970	5,020	4,160	5,240	4,970	11,200	12,800	10,800	4,580	1,980	2,950
28	4,600	4,540	4,920	4,030	5,520	4,810	11,600	15,500	10,600	4,200	1,900	2,920
29	4,650	3,550	5,260	5,340	-----	5,260	11,000	16,500	9,980	4,030	1,880	2,930
30	4,630	4,630	5,550	5,480	-----	5,120	10,400	17,400	9,110	3,870	1,880	2,950
31	4,810	-----	5,450	5,410	-----	5,210	-----	17,700	-----	3,470	1,850	-----
TOTAL	123,600	122,690	148,310	157,270	149,310	183,530	163,550	472,140	363,460	148,210	78,870	80,500
MEAN	3,987	4,090	4,784	5,073	5,333	5,920	5,452	15,230	12,120	4,781	2,544	2,683
MAX	4,810	5,120	5,550	5,630	5,570	8,200	11,600	22,400	16,700	8,140	3,730	3,590
MIN	3,320	3,260	4,140	4,030	4,970	4,810	3,530	9,340	9,110	3,260	1,850	1,910
AC-FT	245,200	243,400	294,200	311,900	296,200	364,000	324,400	936,500	720,900	294,000	156,400	159,700
CAL YR 1973 TOTAL	2,681,110											
WIR YR 1974 TOTAL		2,191,440										
MEAN	7,346											
MAX	33,500											
MIN	2,880											
AC-FT	5,318,000											
WIR		4,347,000										

NOTE.--No gage-height record Jan. 6 to Feb. 5.

DOLORES RIVER BASIN

19

09180000 Dolores River near Cisco, Utah

LOCATION.--Lat 38°47'50", long 109°11'40", in SW¼SE¼ sec.18, T.23 S., R.25 E., Grand County, on left bank 0.2 mile (0.3 km) downstream from Line Canyon, 9 miles (14 km) upstream from mouth, 13.5 miles (21.7 km) downstream from Colorado-Utah State line, and 14 miles (23 km) southeast of Cisco.

DRAINAGE AREA.--4,580 mi² (11,860 km²) approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft (1,270 m) from river-profile map. Prior to Apr. 18, 1965, 200 ft (61 m) downstream at different datum.

AVERAGE DISCHARGE.--24 years, 700 ft³/s (19.8 m³/s), 507,200 acre-ft/yr (625 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,500 ft³/s (127 m³/s) Apr. 26 (gage height, 5.35 ft or 1.631 m); minimum daily, 13 ft³/s (0.340 m³/s) Sept. 11-14.

Period of record: Maximum discharge, 17,400 ft³/s (493 m³/s) Apr. 21, 1958 (gage height, 9.84 ft or 3.000 m) at different datum; minimum, 3.4 ft³/s (0.096 m³/s) Sept. 23, 1956.

REMARKS.--Records good, except those for winter period and period of no gage-height record, which are poor. Many diversions for irrigation above station. Records of chemical analysis for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	178	195	220	150	215	1,260	2,430	1,740	290	110	22
2	109	162	215	137	150	376	1,050	2,480	1,470	251	100	21
3	89	162	251	101	150	1,570	826	2,660	1,210	215	100	20
4	79	140	256	84	150	969	660	2,900	980	174	95	19
5	72	137	273	79	150	514	490	2,880	848	150	92	18
6	65	128	268	112	150	376	445	2,720	730	137	88	17
7	70	124	251	170	150	251	430	2,370	588	166	86	16
8	67	128	205	225	150	273	546	2,490	546	162	84	15
9	124	131	225	220	150	262	642	2,620	430	166	95	14
10	89	131	210	210	150	205	720	2,880	498	154	90	14
11	140	124	182	195	150	210	870	2,840	389	147	88	13
12	190	115	186	178	150	190	760	2,850	408	134	84	13
13	195	115	186	174	150	158	651	2,790	468	124	82	13
14	170	112	190	150	150	150	506	2,700	624	100	80	13
15	166	101	210	147	150	140	506	2,380	615	100	80	15
16	140	79	210	230	150	134	460	2,020	710	100	80	20
17	186	70	182	205	180	137	554	2,180	642	300	70	20
18	190	61	235	170	210	178	892	2,320	615	389	65	20
19	174	77	240	170	225	235	1,430	2,140	514	530	60	20
20	170	87	210	205	240	322	1,510	1,830	546	546	55	20
21	166	82	150	230	251	482	1,200	1,830	554	624	50	20
22	154	112	124	182	256	445	1,320	1,430	445	422	45	20
23	144	137	166	150	240	334	1,830	1,200	468	408	41	20
24	137	150	186	150	240	220	1,920	1,090	430	389	38	20
25	131	166	174	150	235	273	2,020	1,000	460	300	36	20
26	128	170	186	150	230	334	3,150	890	430	251	30	20
27	140	186	166	150	220	415	3,500	1,020	350	225	30	20
28	137	200	174	150	215	506	3,350	1,270	356	178	29	20
29	137	186	174	150	-----	651	2,840	1,700	317	137	27	20
30	134	178	240	150	-----	740	2,480	1,780	284	131	25	20
31	186	-----	256	147	-----	760	-----	1,770	-----	120	24	-----
TOTAL	4,203	3,929	6,376	5,141	5,142	12,025	38,818	65,460	18,665	7,520	2,059	543
MEAN	136	131	206	166	184	388	1,294	2,112	622	243	66.4	18.1
MAX	195	200	273	230	256	1,570	3,500	2,900	1,740	624	110	22
MIN	65	61	124	79	150	134	430	890	284	100	24	13
AC-FT	8,340	7,790	12,650	10,200	10,200	23,850	77,000	129,800	37,020	14,920	4,080	1,080

CAL YR 1973 TOTAL 649,701 MEAN 1,780 MAX 13,000 MIN 61
WTR YR 1974 TOTAL 169,881 MEAN 465 MAX 3,500 MIN 13 AC-FT 1,289,000
AC-FT 337,000

PEAK DISCHARGE (BASE, 3,000 CFS).--Apr. 26 (1700) 4,500 cfs (5.35 ft).

NOTE.--No gage-height record July 31 to Sept. 30.

09180500 Colorado River near Cisco, Utah

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¼ sec.17, T.23 S., R.24 E., Grand County, on left bank 1 mile (2 km) downstream from Dolores River, 11 miles (18 km) south of Cisco, 36 miles (58 km) downstream from Colorado-Utah State line, 97 miles (156 km) upstream from Green River, and 235 miles (378 km) upstream from San Juan River, at mile 1,022.3 (1,645.2 km).

DRAINAGE AREA.--24,100 mi² (62,420 km²), approximately.

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calendar-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

GAGE.--Water-stage recorder. Altitude of gage is 4,090 ft (1,247 m) from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 miles (50 km) downstream at datum 3,937.73 ft (1,200.220 m) above mean sea level.

AVERAGE DISCHARGE.--63 years (1911-74), 7,663 ft³/s (217.0 m³/s), 5,552,000 acre-ft/yr (6.85 km³/yr).

EXTREMES.--Current year: Maximum discharge, 25,100 ft³/s (711 m³/s) May 12 (gage height, 9.46 ft or 2.883 m); minimum, 1,730 ft³/s (49.0 m³/s) Aug. 31.

Period of record: Maximum discharge, 76,800 ft³/s (2,175 m³/s) June 19, 1917 (gage height, 19.7 ft or 6.00 m); minimum recorded, 558 ft³/s (15.8 m³/s) July 21, 1934 (gage height, 0.44 ft or 0.134 m).

Maximum discharge known, about 125,000 ft³/s (3,540 m³/s) July 4, 1884, from flood record at Fruita, Colo.

REMARKS.--Records good. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir (see station 09124600) since Nov. 27, 1965. Records of chemical analysis, water temperatures, and suspended-sediment loads for the water year 1974 will be published in Part 2 of this report.

REVISIONS(WATER YEARS).--WSP 918: 1913, 1937. WSP 1313: 1918-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,550	5,160	4,800	5,070	5,500	5,350	6,110	10,800	18,400	8,700	3,440	1,820
2	3,500	5,300	4,980	4,620	5,400	6,330	6,650	11,000	16,500	7,690	3,250	1,920
3	3,480	4,210	5,070	4,610	5,100	8,600	6,370	12,300	14,700	6,980	3,100	2,010
4	3,400	3,650	5,010	4,370	5,100	7,670	5,830	13,000	13,700	5,830	3,100	1,990
5	3,460	3,760	4,880	4,220	5,000	6,310	5,090	14,500	12,500	5,320	3,120	2,020
6	3,360	3,680	4,790	4,620	5,400	5,860	4,630	15,000	12,100	4,730	3,000	2,060
7	3,420	3,610	4,410	4,800	5,500	5,870	4,550	15,800	12,800	5,100	2,900	2,140
8	3,400	3,620	4,170	5,310	5,400	6,050	4,670	17,100	12,000	5,150	2,800	2,180
9	3,960	3,620	4,340	5,420	5,000	6,030	4,360	18,900	11,100	4,800	2,900	2,150
10	3,980	3,580	4,450	5,580	5,200	6,200	4,210	22,000	10,600	4,000	3,100	2,180
11	3,990	3,370	4,360	5,420	5,000	6,340	4,220	24,400	9,810	3,930	3,800	2,120
12	4,150	3,520	4,240	5,390	5,100	6,210	4,190	24,700	9,380	3,880	3,680	2,150
13	4,320	3,500	4,380	5,610	5,400	6,050	3,920	23,700	9,700	3,660	3,400	2,210
14	4,380	3,470	4,520	5,410	5,400	5,780	3,940	23,200	10,900	3,410	3,100	2,360
15	4,360	3,380	4,540	5,360	5,400	5,310	3,970	19,500	12,000	3,340	2,800	2,630
16	4,280	3,360	4,380	5,760	5,390	5,370	3,820	16,500	13,200	3,460	2,500	3,110
17	4,290	3,340	4,030	5,500	5,500	5,560	3,740	16,300	13,600	3,550	2,300	3,540
18	4,230	3,800	4,170	5,180	5,540	5,940	4,030	17,900	14,100	4,280	2,300	3,560
19	4,150	4,870	4,650	5,370	5,560	6,160	4,760	17,100	13,900	5,900	2,250	3,510
20	4,200	4,950	5,050	5,320	5,580	6,430	5,680	17,100	14,500	6,030	2,200	3,430
21	4,290	4,870	4,980	5,610	5,580	6,480	5,810	17,000	14,300	5,600	2,160	3,360
22	4,270	4,900	5,100	5,320	5,500	5,940	5,500	15,000	13,900	5,490	2,090	3,260
23	4,250	4,870	4,610	5,090	5,400	5,600	5,530	13,000	13,800	6,080	2,280	3,220
24	4,210	4,840	4,970	5,070	5,380	5,180	5,710	11,800	13,000	6,620	2,040	3,210
25	4,260	4,620	5,150	4,650	5,080	5,350	6,740	11,700	12,400	6,450	2,020	3,030
26	4,290	5,030	5,110	4,720	4,870	5,080	8,530	11,700	11,700	5,920	1,980	2,900
27	4,340	5,050	4,870	4,590	4,880	4,840	11,900	12,500	11,200	5,110	1,970	2,920
28	4,550	4,910	4,740	4,280	5,110	5,010	13,400	14,900	10,800	4,650	1,930	2,850
29	4,640	3,840	4,880	4,000	-----	5,380	12,400	17,100	10,400	4,310	1,830	2,870
30	4,670	4,100	5,260	5,400	-----	5,440	11,900	18,100	9,580	4,230	1,880	2,890
31	4,840	-----	5,330	5,400	-----	5,470	-----	18,800	-----	3,820	1,800	-----
TOTAL	126,470	124,780	146,220	157,070	148,270	183,190	182,160	512,400	376,570	158,020	81,020	79,600
MEAN	4,080	4,159	4,717	5,067	5,295	5,909	6,072	16,530	12,550	5,097	2,614	2,653
MAX	4,840	5,300	5,330	5,760	5,580	8,600	13,400	24,700	18,400	8,700	3,800	3,560
MIN	3,360	3,340	4,030	4,000	4,870	4,840	3,740	10,800	9,380	3,340	1,800	1,820
AC-FT	250,900	247,500	290,000	311,500	294,100	363,400	361,300	1,016M	746,900	313,400	160,700	157,900
CAL YR 1973	TOTAL 3,213,280			MEAN 8,804	MAX 41,600	MIN 3,120	AC-FT 6,374,000					
WTR YR 1974	TOTAL 2,275,770			MEAN 6,235	MAX 24,700	MIN 1,800	AC-FT 4,514,000					

PEAK DISCHARGE (BASE, 26,000 CFS). No peak above base

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

21

09182000 Castle Creek above diversions near Moab, Utah

LOCATION.--Lat 38°35'34", long 109°15'54", in NW¼NE¼ sec.33, T.25 S., R.24 E., Grand County, on left bank 1 mile (2 km) east of LaSal National Forest boundary and 15 miles (24 km) east of Moab.

DRAINAGE AREA.--7.58 mi² (19.6 km²).

PERIODS OF RECORD.--July 1950 to September 1955, April 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,070 ft (2,155 m) by barometer.

AVERAGE DISCHARGE.--22 years, 1.15 ft³/s (0.033 m³/s), 833 acre-ft/yr (1.03 km³/yr).

EXTREMES.--Current year: Maximum discharge, 4.7 ft³/s (0.13 m³/s) May 31, June 1 (gage height, 1.39 ft or 0.424 m); minimum recorded discharge, 0.22 ft³/s (0.006 m³/s) Mar. 17.

Period of record: Maximum discharge, 27 ft³/s (0.76 m³/s) Aug. 11, 1967 (gage height, 1.71 ft or 0.521 m); no flow for many days in 1959-61, 1963-64.

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

REVISIONS(WATER YEARS).--WSP 1563: Drainage area. WSP 1633: 1952, 1953(M), 1955, 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.70	.60	.51	.40	.33	.30	.71	4.4	2.3	1.5	.76
2	.82	.70	.60	.50	.40	.33	.32	.85	4.4	2.3	1.5	.82
3	.82	.70	.57	.50	.40	.33	.30	1.2	4.4	2.2	1.5	.82
4	.82	.70	.55	.50	.39	.32	.30	1.6	4.2	2.1	1.5	.76
5	.76	.70	.55	.50	.39	.32	.33	1.9	4.1	2.0	1.4	.76
6	.76	.70	.55	.50	.39	.32	.36	2.0	4.0	1.9	1.3	.74
7	.82	.70	.55	.50	.39	.32	.36	2.1	4.0	1.9	1.3	.73
8	.82	.70	.55	.50	.38	.33	.36	2.1	4.0	1.8	1.2	.73
9	.88	.70	.55	.50	.38	.33	.36	2.6	3.8	1.8	1.2	.73
10	.88	.70	.55	.50	.38	.30	.36	3.7	3.6	1.6	1.2	.72
11	.88	.70	.55	.47	.38	.30	.36	4.1	3.5	1.6	1.2	.65
12	.82	.70	.55	.47	.37	.29	.36	4.0	3.2	1.5	1.2	.65
13	.82	.70	.55	.47	.37	.27	.36	4.1	3.1	1.5	1.2	.65
14	.82	.70	.54	.47	.37	.27	.36	3.8	3.0	1.5	1.1	.63
15	.82	.70	.53	.47	.37	.26	.35	3.6	3.1	1.4	1.1	.65
16	.82	.70	.51	.43	.36	.26	.33	3.6	3.1	1.5	1.0	.64
17	.82	.70	.51	.43	.36	.27	.33	3.7	3.2	1.5	1.0	.65
18	.82	.71	.51	.43	.36	.27	.33	3.5	3.3	1.5	1.0	.63
19	.82	.71	.51	.43	.36	.27	.33	3.4	3.2	1.5	1.0	.60
20	.76	.70	.51	.43	.35	.27	.35	3.4	3.2	1.7	1.0	.60
21	.76	.70	.51	.43	.35	.26	.34	3.2	3.1	2.0	1.0	.60
22	.76	.70	.51	.43	.35	.27	.30	3.1	3.0	2.1	.88	.60
23	.76	.69	.51	.40	.35	.27	.31	2.9	3.0	2.0	.88	.60
24	.76	.65	.51	.40	.34	.27	.33	2.9	2.9	2.0	.82	.59
25	.76	.70	.51	.40	.34	.27	.34	2.7	2.9	2.0	.88	.58
26	.76	.70	.51	.40	.34	.27	.36	2.7	2.6	1.9	.88	.58
27	.76	.65	.51	.40	.34	.27	.38	2.8	2.6	1.9	.82	.52
28	.76	.65	.55	.40	.33	.27	.45	3.1	2.5	1.6	.82	.57
29	.76	.60	.55	.40	-----	.27	.52	3.7	2.4	1.6	.82	.57
30	.76	.60	.52	.40	-----	.28	.63	4.4	2.3	1.6	.82	.55
31	.76	-----	.50	.40	-----	.30	-----	4.6	-----	1.5	.76	-----
TOTAL	24.76	20.66	16.58	13.97	10.29	8.96	10.77	92.05	100.1	55.3	33.78	19.68
MEAN	.80	.69	.53	.45	.37	.29	.36	2.97	3.34	1.78	1.09	.66
MAX	.88	.71	.60	.51	.40	.33	.63	4.6	4.4	2.3	1.5	.82
MIN	.76	.60	.50	.40	.33	.26	.30	.71	2.3	1.4	.76	.52
AC-FT	49	41	33	28	20	18	21	183	199	110	67	39

CAL YR 1973 TOTAL 958.08 MEAN 2.62 MAX 15 MIN .47 AC-FT 1,900
WTR YR 1974 TOTAL 406.91 MEAN 1.11 MAX 4.6 MIN .26 AC-FT 807

PEAK DISCHARGE (BASE, 5 CFS). No peak above base

NOTE.--No gage-height record Jan. 3 to Mar. 6.

09183000 Courthouse Wash near Moab, Utah

LOCATION.--Lat 38°36'46", long 109°34'45", in NE¼SE¼ sec.22, T.25 S., R.21 E., Grand County, on left bank 0.6 mile (1.0 km) upstream from bridge on U.S. Highway 160, 0.8 mile (1.3 km) upstream from mouth and 3.0 miles (4.8 km) northwest of Moab.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--October 1949 to September 1955, April to September 1957, July 1966 to current year. Records for station at site 5 miles (8 km) upstream published as "at Arches Highway Crossing near Moab" September 1958 to July 1966 not equivalent at all times due to possibility that some summer storm runoff would be from intermediate area.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft (1,213 m) from river-profile map.

AVERAGE DISCHARGE.--14 years (1949-55, 1967-74), 2.00 ft³/s (0.057 m³/s), 1,450 acre-ft/yr (1.79 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) July 22 (gage height, 2.78 ft or 0.847 m); no flow July 2.
Period of record: Maximum discharge, 12,300 ft³/s (348 m³/s) Aug. 5, 1957 (gage height, 9.38 ft or 2.859 m), from rating curve extended above 500 ft³/s (14.2 m³/s) on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records fair except for winter period, which are poor. No regulation or diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.09	.31	.67	.20	.47	.29	.15	.10	.05	.12	.10
2	.11	.09	.67	.18	.20	.47	123	.15	.10	.05	.12	.10
3	.10	.09	.89	.18	.20	47	1.7	.15	.10	.06	.12	.11
4	.10	.09	.43	.18	.20	1.5	.88	.15	.10	.06	.12	.11
5	.10	.12	.37	.18	.20	1.1	.71	.15	.13	.06	.12	.11
6	.09	.12	.37	.18	.20	.94	.66	.15	.11	.07	.12	.11
7	.09	.12	.43	.18	.20	1.2	.40	.16	.10	.06	.12	.11
8	.09	.12	.50	.18	.20	1.4	.40	.15	.10	.06	.12	.11
9	52	.12	.43	.18	.20	1.2	.49	.15	.11	.06	.12	.11
10	49	.15	.43	.18	.20	1.3	.28	.13	.10	.05	.12	.10
11	4.0	.15	.43	.18	.20	.70	.44	.13	.10	.06	.12	.10
12	1.0	.18	.43	.18	.20	.69	.49	.12	.10	.07	.12	.11
13	.50	.22	.43	.18	.40	.63	.38	.13	.09	.07	.12	.11
14	.10	.22	.67	.18	.40	.68	.36	.13	.09	.07	.10	.11
15	.10	.22	.31	.20	.44	.71	.36	.11	.09	.09	.10	.13
16	.10	.22	.37	.30	.44	.68	.38	.11	.08	5.2	.10	.12
17	.09	.22	.43	.20	.44	.62	.29	.14	.09	.10	.10	.12
18	.09	2.2	.58	.20	.44	.59	.31	.12	.09	.06	.10	.12
19	.09	11	.43	.20	.44	.56	1.3	.12	.09	2.8	.11	.11
20	.09	2.3	.50	.20	.44	.47	7.6	.13	.07	2.4	.10	.11
21	.09	.77	.43	.20	.44	.39	.91	.13	.07	8.4	.10	.11
22	.09	.67	.31	.18	.44	.42	.50	.14	.08	10	.10	.11
23	.09	.43	.50	.18	.44	.33	.38	.13	.07	.50	.11	.11
24	.09	.27	.77	.18	.46	.28	.16	.12	.07	.12	.11	.11
25	.09	.18	.50	.18	.46	.37	.21	.12	.07	.12	.10	.12
26	.09	.50	.50	.18	.46	.37	.51	.12	.06	.12	.10	.15
27	.09	.50	.43	.18	.46	.36	.16	.11	.06	.12	.10	.14
28	.09	.50	.43	.18	.46	.30	.15	.10	.06	.12	.10	.15
29	.09	.50	1.8	.18	-----	.40	.15	.09	.06	.12	.10	.15
30	.09	.43	3.3	.18	-----	.45	.15	.10	.06	.12	.10	.15
31	.09	-----	.67	.18	-----	.38	-----	.10	-----	.12	.09	-----
TOTAL	108.94	22.79	19.05	6.31	9.46	66.96	144.00	3.99	2.60	31.36	3.38	3.51
MEAN	3.51	.76	.61	.20	.34	2.16	4.80	.13	.087	1.01	.11	.12
MAX	52	11	3.3	.67	.46	.47	123	.16	.13	10	.12	.15
MIN	.09	.09	.31	.18	.20	.28	.15	.09	.06	.05	.09	.10
AC-FT	216	45	38	13	19	133	286	7.9	5.2	62	6.7	7.0

CAL YR 1973 TOTAL 738.11 MEAN 2.02 MAX 97 MIN .02 AC-FT 1,460
WTR YR 1974 TOTAL 422.35 MEAN 1.16 MAX 123 MIN .05 AC-FT 838

PEAK DISCHARGE (BASE, 700 CFS).--July 22 (1130) 1,040 cfs (2.78 ft)

NOTE:--No gage-height record Jan. 3 to Mar. 2.

09184000 Mill Creek near Moab, Utah

LOCATION.--Lat 38°33'44", long 109°30'48", in NW¼NE¼ sec.8, T.26 S., R.22 E., Grand County, on right bank 0.5 mile (0.8 km) downstream from North Fork, 1.5 miles (2.4 km) southeast of Moab, and 3.5 miles (5.6 km) upstream from mouth.

DRAINAGE AREA.--74.9 mi² (194.0 km²).

PERIOD OF RECORD.--October 1914 (fragmentary), November 1914, February to September 1915, October to November 1915, February to March 1916, June 1916 to June 1917, April to July 1918 (fragmentary), April to July 1919, July 1949 to September 1971. October 1972 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft (1,290 m) from topographic map. Prior to Apr. 28, 1918, nonrecording gage and Apr. 28, 1918 to Aug. 2, 1919, July 1949 to Mar. 15, 1962, water-stage recorder, 0.4 mile (0.6 km) upstream at various datums.

AVERAGE DISCHARGE.--24 years (1950-71, 1973-74), 14.5 ft³/s (0.411 m³/s), 10,510 acre-ft/yr (13.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,450 ft³/s (97.7 m³/s) July 19 (gage height, 8.95 ft or 2.728 m); minimum, 4.0 ft³/s (0.11 m³/s) Dec. 6.

Period of record: Maximum recorded discharge, about 5,110 ft³/s (145 m³/s) Aug. 21, 1953) (gage height, 10.74 ft or 3.274 m, from floodmark, site and datum then in use) from rating curve extended above 700 ft³/s (19.8 m³/s) on basis of slope-area measurements at gage heights 8.24 ft (2.512 m), 8.62 ft (2.626 m), 9.81 ft (2.990 m), and 11.1 ft (3.38 m); maximum gage height, 11.6 ft (3.54 m) Aug. 26, 1961, site and datum then in use; minimum discharge recorded, 0.2 ft³/s (0.006 m³/s) Feb. 15, 1964.

REMARKS.--Records good, except those for winter period, which are poor. Small diversions, near headwaters, for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	13	14	10	12	14	13	26	29	12	11	8.6
2	8.7	13	12	10	12	19	34	30	29	11	12	9.2
3	8.9	13	11	10	12	17	17	31	26	11	12	9.4
4	8.7	13	9.2	10	12	10	11	33	23	11	11	9.9
5	9.1	13	8.1	10	12	9.1	11	31	25	11	11	9.7
6	8.8	13	8.5	10	12	11	11	31	24	12	11	9.6
7	8.9	13	9.3	10	12	11	11	30	22	12	10	9.1
8	10	13	10	10	12	10	11	38	21	12	11	8.4
9	33	11	10	10	12	10	11	47	20	11	12	8.4
10	13	11	10	10	12	10	12	54	19	11	11	8.2
11	10	8.5	11	10	12	9.6	11	55	18	10	10	7.9
12	10	9.5	11	10	12	9.6	11	51	19	10	11	8.3
13	10	11	10	10	12	10	9.7	52	19	10	10	9.0
14	11	9.8	9.7	11	12	11	9.9	45	20	9.7	10	8.7
15	11	8.5	9.3	10	12	11	10	41	20	11	9.8	9.4
16	10	9.7	11	11	12	12	11	42	21	11	9.6	10
17	11	9.4	11	11	12	13	13	43	23	13	9.5	9.8
18	12	9.8	10	11	12	13	14	38	23	22	9.0	9.9
19	11	17	9.3	11	12	13	15	34	22	460	9.5	11
20	11	12	9.2	11	12	12	14	32	19	68	9.9	9.1
21	11	12	9.5	11	13	12	12	28	19	11	11	8.8
22	11	11	9.5	11	13	12	13	26	18	12	11	8.8
23	11	12	9.5	11	13	12	22	24	17	15	11	9.6
24	12	12	9.5	11	13	11	23	24	16	14	10	11
25	12	13	9.5	11	13	11	24	23	15	13	8.4	8.6
26	13	13	9.5	12	13	12	29	25	15	11	7.8	7.9
27	12	13	10	12	13	12	26	27	15	11	8.4	7.2
28	13	12	10	12	13	12	24	29	13	11	9.1	7.2
29	12	13	10	12	-----	12	23	31	13	11	9.6	7.2
30	12	12	10	12	-----	12	22	32	13	11	9.2	7.2
31	13	-----	10	12	-----	13	-----	31	-----	11	8.3	-----
TOTAL	357.3	354.2	310.6	333	344	366.3	478.6	1,084	596	869.7	314.1	267.1
MEAN	11.5	11.8	10.0	10.7	12.3	11.8	16.0	35.0	19.9	28.1	10.1	8.90
MAX	33	17	14	12	13	19	34	55	29	460	12	11
MIN	8.7	8.5	8.1	10	12	9.1	9.7	23	13	9.7	7.8	7.2
AC-FT	709	703	616	661	682	727	949	2,150	1,180	1,730	623	530

CAL YR 1973 TOTAL 8,494.2 MEAN 23.3 MAX 140 MIN 6.2 AC-FT 16,850
WTR YR 1974 TOTAL 5,674.9 MEAN 15.5 MAX 460 MIN 7.2 AC-FT 11,260

PEAK DISCHARGE (BASE, 250 CFS).--July 19 (2000) 3,450 cfs (8.95 ft).

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09185800 Indian Creek tunnel near Monticello, Utah

LOCATION.--Lat 37°50'28", long 109°30'17", in sec.9, T.34 S., R.22 E. (unsurveyed), San Juan County, on left bank 200 ft (61 m) downstream from headgate, 500 ft (152 m) upstream from tunnel entrance, and 9 miles (14 km) southwest of Monticello.

PERIOD OF RECORD.--October 1957 to September 1959, June 1960 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 9,120 ft (2,780 m) from topographic map.

AVERAGE DISCHARGE.--16 years (1957-59, 1960-74), 1.50 ft³/s (0.0425 m³/s), 1,090 acre-ft/yr (1.34 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7.0 ft³/s (0.20 m³/s) July 16; minimum daily, 0.20 ft³/s (0.006 m³/s) Sept. 12-15.
Period of record: Maximum daily discharge, 18 ft³/s (0.51 m³/s) June 8, 1968; no flow at times in some years.

REMARKS.--Records poor. Water is diverted from Indian Creek to the San Juan River basin for domestic use and irrigation in the vicinity of Blanding.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.40	.40	.40	.40	.40	.40	.74	4.1	1.2	.64	.40
2	.41	.40	.40	.40	.40	.40	.40	.76	3.7	1.1	.64	.40
3	.41	.40	.40	.40	.40	.40	.40	.80	3.5	1.1	.65	.40
4	.41	.40	.40	.40	.40	.40	.40	.85	3.2	1.1	.64	.36
5	.41	.40	.40	.40	.40	.40	.40	.90	3.1	1.1	.64	.36
6	.41	.40	.40	.40	.40	.40	.40	.94	2.9	1.1	.64	.36
7	.41	.40	.40	.40	.40	.40	.40	1.0	2.7	1.1	.63	.24
8	.41	.40	.40	.40	.40	.40	.40	1.1	2.7	1.1	.61	.24
9	.50	.40	.40	.40	.40	.40	.40	1.1	2.4	1.0	.59	.24
10	.54	.40	.40	.40	.40	.40	.40	1.2	2.2	1.0	.54	.24
11	.52	.40	.40	.40	.40	.40	.40	1.3	2.1	.96	.54	.24
12	.45	.40	.40	.40	.40	.40	.40	1.3	1.9	.96	.54	.20
13	.43	.40	.40	.40	.40	.40	.40	1.4	1.8	.96	.54	.20
14	.40	.40	.40	.40	.40	.40	.40	1.5	1.7	.94	.54	.20
15	.40	.40	.40	.40	.40	.40	.40	1.6	1.6	.92	.52	.20
16	.40	.40	.40	.40	.40	.40	.41	1.7	1.5	1.2	.49	.28
17	.40	.40	.40	.40	.40	.40	.42	1.8	1.5	1.2	.49	.32
18	.40	.40	.40	.40	.40	.40	.45	1.9	1.5	.90	.49	.32
19	.40	.40	.40	.40	.40	.40	.46	2.0	1.5	.82	.45	.32
20	.40	.40	.40	.40	.40	.40	.47	2.2	1.5	.82	.44	.32
21	.40	.40	.40	.40	.40	.40	.48	2.4	1.5	.91	.41	.36
22	.40	.40	.40	.40	.40	.40	.50	2.6	1.4	.84	.36	.36
23	.40	.40	.40	.40	.40	.40	.52	2.7	1.4	.78	.36	.36
24	.40	.40	.40	.40	.40	.40	.54	2.8	1.4	.78	.36	.36
25	.40	.40	.40	.40	.40	.40	.56	2.7	1.4	.77	.36	.36
26	.40	.40	.40	.40	.40	.40	.60	2.8	1.3	.77	.40	.36
27	.40	.40	.40	.40	.40	.40	.62	3.3	1.3	.75	.40	.36
28	.40	.40	.40	.40	.40	.40	.64	3.8	1.2	.74	.39	.32
29	.40	.40	.40	.40	-----	.40	.66	4.3	1.2	.71	.37	.32
30	.40	.40	.40	.40	-----	.40	.70	4.7	1.2	.68	.36	.36
31	.40	-----	.40	.40	-----	.40	-----	4.4	-----	.68	.36	-----
TOTAL	12.92	12.00	12.40	12.40	11.20	12.40	14.03	62.59	60.4	28.99	15.39	9.36
MEAN	.42	.40	.40	.40	.40	.40	.47	2.02	2.01	.94	.50	.31
MAX	.54	.40	.40	.40	.40	.40	.70	4.7	4.1	1.2	.65	.40
MIN	.40	.40	.40	.40	.40	.40	.40	.74	1.2	.68	.36	.20
AC-FT	26	24	25	25	22	25	28	124	120	58	31	19
CAL YR 1973	TOTAL 595.31 MEAN 1.63 MAX 12 MIN .40 AC-FT 1,180											
WTR YR 1974	TOTAL 264.08 MEAN .72 MAX 4.7 MIN .20 AC-FT 524											

NOTE.--No gage-height record Oct. 6 to May 21.

GREEN RIVER BASIN

25

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 10,000 mi² (25,900 km²), of which 300 mi² (777 km²) is probably noncontributing.

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map.

AVERAGE DISCHARGE.--23 years, 1,724 ft³/s (48.82 m³/s), 1,249,000 acre-ft/yr (1,540 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,140 ft³/s (259 m³/s) June 25, gage height, 5.87 ft (1.789 m); minimum daily, 426 ft³/s (12.1 m³/s) Oct. 1.

Period of record: Maximum discharge, 16,800 ft³/s (476 m³/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily, 170 ft³/s (4.81 m³/s) Nov. 16, 1955.

Maximum discharge observed, 22,200 ft³/s (629 m³/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1713: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	426	1,130	740	950	2,000	2,000	1,800	2,380	4,790	6,490	2,690	1,290
2	816	1,120	760	970	2,010	1,900	1,850	2,400	5,020	5,890	2,290	1,290
3	1,170	1,130	820	980	2,000	1,810	1,780	2,740	5,070	5,240	1,930	1,320
4	1,510	1,120	870	980	1,990	1,780	1,770	2,930	5,360	5,260	1,900	1,240
5	1,680	1,110	870	960	2,000	1,720	1,770	2,960	5,860	5,380	1,930	981
6	1,690	1,080	880	950	1,980	1,760	1,740	2,960	5,890	4,860	1,950	866
7	1,620	1,130	885	920	1,950	1,800	1,730	3,100	6,130	4,570	1,940	857
8	1,260	1,160	890	930	1,920	1,850	1,740	3,040	6,270	4,310	1,910	866
9	1,040	1,140	870	940	1,950	1,970	1,740	3,660	6,250	3,620	1,850	866
10	1,050	1,130	830	920	1,990	2,080	1,640	3,780	6,200	2,910	1,810	848
11	1,030	1,130	820	880	2,000	2,160	1,650	3,800	5,240	2,600	1,770	824
12	1,010	1,120	870	830	2,000	2,200	1,650	3,820	4,350	2,680	1,730	840
13	1,010	1,120	860	830	2,000	1,860	1,530	3,800	3,460	2,720	1,700	857
14	1,000	1,120	830	860	2,000	1,650	1,460	4,280	3,200	2,710	1,680	891
15	997	1,110	830	810	2,000	1,680	1,440	4,400	3,190	2,690	1,680	891
16	998	1,110	810	790	1,990	1,810	1,400	4,400	3,220	2,700	1,510	874
17	989	1,110	850	780	1,980	1,820	1,390	4,420	3,310	2,720	1,680	857
18	984	1,120	870	770	1,980	2,040	1,360	4,420	4,080	2,760	1,710	840
19	981	1,120	880	960	1,980	2,050	1,550	4,410	5,020	2,810	1,710	800
20	979	1,020	890	1,290	1,980	2,060	1,940	4,410	6,060	2,850	1,520	874
21	979	798	880	1,480	1,980	1,830	2,010	3,990	6,150	2,950	1,380	857
22	990	820	850	1,750	1,980	1,760	1,910	3,860	6,370	2,910	1,400	857
23	987	850	890	1,900	1,980	1,700	1,870	3,470	7,370	2,900	1,390	874
24	982	860	870	2,000	1,950	1,680	1,860	3,290	8,460	2,900	1,370	874
25	985	870	850	2,010	1,900	1,650	1,880	2,560	9,020	2,840	1,360	824
26	1,040	880	840	2,000	1,970	1,650	1,950	1,900	9,000	2,770	1,340	752
27	1,120	870	810	1,990	1,980	1,670	1,920	1,880	8,660	2,690	1,320	692
28	1,110	900	850	1,980	1,990	1,680	1,900	1,880	7,740	2,590	1,320	692
29	1,120	870	890	1,980	-----	1,880	1,910	2,310	7,010	2,500	1,310	700
30	1,120	860	870	2,000	-----	2,090	2,220	3,070	6,750	2,400	1,290	700
31	1,110	-----	910	2,010	-----	1,820	-----	3,960	-----	2,700	1,290	-----
TOTAL	33,783	30,908	26,435	39,400	55,430	57,410	52,360	104,280	174,500	105,920	51,660	26,794
MEAN	1,090	1,030	853	1,271	1,980	1,852	1,745	3,364	5,817	3,417	1,666	893
MAX	1,690	1,160	910	2,010	2,010	2,200	2,220	4,420	9,020	6,490	2,690	1,320
MIN	426	798	740	770	1,900	1,650	1,360	1,880	3,190	2,400	1,290	692
AC-FT	67,010	61,310	52,430	78,150	109,900	113,900	103,900	206,800	346,100	210,100	102,500	53,150
CAL YR 1973	TOTAL 601,530		MEAN 1,648		MAX 3,340		MIN 426		AC-FT 1,193,000			
WTR YR 1974	TOTAL 758,880		MEAN 2,079		MAX 9,020		MIN 426		AC-FT 1,505,000			

GREEN RIVER BASIN

09217900 Blacks Fork near Robertson, Wyo.

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, on left bank 1 mile (2 km) downstream from East Fork, 2.5 miles (4.0 km) south of Utah-Wyoming State line, and 17 miles (27 km) south of Robertson.

DRAINAGE AREA.--130 mi² (337 km²), approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,803.8 ft (2,683.398 m) above mean sea level (levels by Bureau of Reclamation). Prior to July 29, 1966, water-stage recorder at site 0.5 mile (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--9 years (1938, 1966-74), 170 ft³/s (4,814 m³/s), 123,200 acre-ft/yr (152 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,980 ft³/s (56.1 m³/s) May 29 (gage height, 3.94 ft or 1.201 m); minimum, 23 ft³/s (0.65 m³/s) Mar. 9, 10.

Period of record: Maximum discharge, 2,160 ft³/s (61.2 m³/s) June 6, 1968 (gage height, 4.91 ft or 1.500 m); minimum indicated, 13 ft³/s (0.37 m³/s) Feb. 25, 1968.

REMARKS.--Records good except those for the winter period, which are fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	57	55	41	43	31	31	102	1,060	317	101	41
2	85	66	55	41	42	31	32	127	1,010	300	112	43
3	82	70	55	41	42	31	32	127	1,010	277	101	41
4	78	68	55	41	41	31	34	135	923	241	89	41
5	78	64	54	41	42	31	34	177	992	229	85	41
6	75	64	54	41	42	31	34	236	773	216	82	39
7	72	65	54	41	42	31	33	317	600	207	80	39
8	71	68	54	41	41	31	34	455	513	197	77	39
9	75	75	53	42	41	30	35	688	470	194	75	39
10	82	70	53	42	40	30	33	765	450	185	73	38
11	78	64	53	42	39	29	35	648	530	176	69	39
12	76	65	52	42	38	28	34	648	697	164	67	43
13	79	65	52	42	37	27	40	681	822	156	65	43
14	89	64	52	41	36	27	55	553	917	150	62	42
15	89	63	52	41	35	26	52	540	923	148	59	41
16	82	62	51	42	35	28	48	568	873	164	57	39
17	74	60	51	41	35	30	52	616	830	198	55	38
18	70	66	51	42	34	30	53	654	781	232	53	38
19	68	58	51	44	34	29	40	699	761	252	51	37
20	67	58	50	44	34	29	38	516	781	238	50	36
21	63	58	49	43	34	28	43	395	704	182	50	36
22	62	58	48	40	33	28	48	358	625	155	50	36
23	61	57	47	40	33	28	48	380	578	172	48	36
24	64	57	47	40	33	28	58	465	546	160	47	35
25	66	57	47	40	32	28	72	647	516	142	47	35
26	59	57	45	40	32	28	84	858	490	126	45	35
27	62	56	44	41	32	29	75	1,320	440	121	45	35
28	63	56	43	41	32	29	72	1,670	393	120	44	35
29	57	56	42	42	-----	29	77	1,670	364	110	44	38
30	65	56	41	42	-----	29	86	1,330	342	104	42	36
31	64	-----	41	42	-----	31	-----	1,110	-----	102	42	-----
TOTAL	2,248	1,860	1,551	1,284	1,034	906	1,442	19,455	20,714	5,735	1,967	1,154
MEAN	72.5	62.0	50.0	41.4	36.9	29.2	48.1	628	690	185	63.5	38.5
MAX	92	75	55	44	43	31	86	1,670	1,060	317	112	43
MIN	57	56	41	40	32	26	31	102	342	102	42	35
AC-FT	4,460	3,690	3,080	2,550	2,050	1,800	2,860	38,590	41,090	11,380	3,900	2,290

CAL YR 1973 TOTAL 65,402 MEAN 179 MAX 1,490 MIN 28 AC-FT 129,700
WTR YR 1974 TOTAL 59,350 MEAN 163 MAX 1,670 MIN 26 AC-FT 117,700

PEAK DISCHARGE (BASE, 1,000 CFS).--May 29 (0100) 1,980 cfs (3.94 ft); June 13 (2400) 1,070 cfs (3.02 ft).

GREEN RIVER BASIN

27

09218500 BLACKS FORK NEAR MILLBURNE, WYO.

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft (2,594.540 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

AVERAGE DISCHARGE.--35 years, 161 ft³/s (4.560 m³/s), 116,600 acre-ft/yr (144 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,600 ft³/s (45.3 m³/s) May 29, gage height, 4.70 ft (1.433 m); minimum daily, 32 ft³/s (0.91 m³/s) Oct. 12, Mar. 27 to Apr. 17.

Period of record: Maximum discharge, 2,530 ft³/s (71.6 m³/s) June 7, 1957, from rating curve extended above 1,500 ft³/s (42.5 m³/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft³/s (0.10 m³/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), revised, since June 1971. No diversion above station.

REVISIONS (WATER YEARS).--WSP 929: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	80	58	45	39	33	32	33	1,210	660	191	182
2	107	71	58	45	38	33	32	33	1,120	510	194	182
3	115	71	58	44	38	34	32	33	1,150	360	191	182
4	135	71	58	44	38	34	32	33	1,050	287	191	180
5	140	71	58	44	38	34	32	33	1,060	287	188	182
6	150	71	58	43	38	34	32	34	995	291	174	180
7	150	60	58	43	38	34	32	35	750	291	168	180
8	148	52	58	43	38	34	32	35	620	287	168	180
9	148	53	58	43	38	34	32	35	517	300	166	177
10	148	53	58	43	38	33	32	37	486	313	166	152
11	66	53	58	43	37	33	32	37	504	326	166	135
12	32	54	58	43	37	33	32	37	612	326	166	138
13	92	54	58	43	37	33	32	38	777	326	127	135
14	107	54	58	43	37	33	32	38	918	326	89	135
15	107	54	58	43	36	33	32	38	930	308	91	135
16	107	56	58	42	36	33	32	165	930	336	91	135
17	107	56	58	42	36	33	32	558	920	380	91	120
18	107	54	51	42	36	33	33	768	870	380	91	104
19	107	56	45	42	36	33	33	910	822	380	91	104
20	107	56	45	42	35	33	33	804	822	380	149	105
21	107	56	45	42	35	33	34	678	786	390	207	109
22	107	56	45	42	35	33	34	705	714	390	200	107
23	107	57	45	42	35	33	34	696	628	326	188	109
24	107	57	45	42	35	33	33	768	580	267	188	92
25	100	57	45	42	34	33	33	910	596	267	188	81
26	94	58	45	41	34	33	33	890	604	267	188	81
27	94	58	45	41	34	32	33	1,040	620	271	182	81
28	94	58	45	41	34	32	33	1,260	669	271	180	81
29	94	58	45	41	-----	32	33	1,430	750	275	180	81
30	94	58	45	41	-----	32	33	1,410	750	244	180	81
31	92	-----	45	41	-----	32	-----	1,270	-----	213	182	-----
TOTAL	3,377	1,773	1,622	1,318	1,020	1,025	976	14,791	23,760	10,235	5,012	3,926
MEAN	109	59.1	52.3	42.5	36.4	33.1	32.5	477	792	330	162	131
MAX	150	80	58	45	39	34	34	1,430	1,210	660	207	182
MIN	32	52	45	41	34	32	32	33	486	213	89	81
AC-FT	6,700	3,520	3,220	2,610	2,020	2,030	1,940	29,340	47,130	20,300	9,940	7,790

CAL YR 1973 TOTAL 58,995 MEAN 162 MAX 750 MIN 17 AC-FT 117,000
WTR YR 1974 TOTAL 68,835 MEAN 189 MAX 1,430 MIN 32 AC-FT 136,500

NOTE.--No gage-height record Jan. 2 to Apr. 17.

GREEN RIVER BASIN

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,470 ft (2,582 m), from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

AVERAGE DISCHARGE.--32 years (1939-71), 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 774 ft³/s (21.9 m³/s) May 29, gage height, 6.08 ft (1.853 m); minimum daily during period of operation, 7.4 ft³/s (0.21 m³/s) Sept. 24-26.

Period of record: Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

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

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

REVISIONS.--WSP 979: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								28	344	74	35	12
2								33	328	70	37	12
3								35	332	68	42	12
4								39	288	60	34	12
5								51	300	58	30	11
6								68	259	53	29	10
7								106	200	52	28	9.6
8								165	180	51	27	9.6
9								233	160	49	27	9.3
10								300	153	48	25	9.0
11								270	146	46	24	8.6
12								262	168	44	23	9.6
13								262	197	41	22	10
14								233	224	41	22	11
15								227	203	40	20	11
16								236	191	42	19	10
17								245	180	48	18	9.3
18								230	170	59	18	9.0
19								252	162	64	18	8.3
20								185	168	110	16	8.3
21								139	155	70	16	8.3
22								135	139	65	16	8.3
23								144	126	60	16	7.7
24								170	118	80	16	7.4
25								206	110	47	16	7.4
26								256	103	44	15	7.4
27								405	95	41	14	7.7
28								552	85	44	14	7.7
29					-----			577	80	41	14	8.0
30					-----			455	80	38	13	8.0
31		-----			-----		-----	365	-----	37	12	-----
TOTAL								6,864	5,444	1,685	676	279.5
MEAN								221	181	54.4	21.8	9.32
MAX								577	344	110	42	12
MIN								28	80	37	12	7.4
AC-FT								13,610	10,800	3,340	1,340	554

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-10	0300	5.42	370
5-29	0530	6.08	774

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NW¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi² (96.3 km²).

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m) above mean sea level. July 13, 1939, to Aug. 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--32 years (1939-71), 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 838 ft³/s (23.7 m³/s) May 28, gage height, 3.62 ft (1.103 m); minimum daily during period of operation, 0.93 ft³/s (0.026 m³/s) Sept. 10.

Period of record: Maximum discharge, 2,100 ft³/s (59.5 m³/s) June 10, 1965, gage height, 3.20 ft (0.975 m), in gage well, 3.60 ft (1.097 m), from floodmarks, datum then in use; minimum observed, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

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

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 929: 1940. WSP 1343, 1733: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								35	210	23	7.3	1.4
2								48	192	22	9.4	1.7
3								48	183	22	11	1.7
4								56	145	19	7.7	1.6
5								84	186	18	7.6	1.6
6								132	207	16	7.0	1.2
7								222	122	15	5.7	1.0
8								338	108	15	4.4	1.5
9								466	105	14	3.1	1.4
10								362	106	14	3.1	.93
11								296	103	13	2.4	1.2
12								326	118	11	2.5	2.4
13								310	138	10	3.1	2.5
14								244	126	10	2.5	2.8
15								250	108	10	2.4	2.8
16								264	101	14	2.2	2.2
17								310	88	18	2.2	2.2
18								362	78	22	2.2	2.5
19								334	72	26	2.2	2.2
20								204	69	28	2.1	2.2
21								130	59	18	2.1	2.0
22								124	52	13	2.1	2.1
23								135	44	13	2.1	2.1
24								145	40	15	2.1	1.8
25								210	37	12	2.0	1.8
26								264	33	9.4	2.0	1.9
27								386	30	9.1	2.0	2.4
28								516	27	9.4	1.9	2.8
29								458	26	8.1	1.8	3.2
30								342	23	7.9	1.7	3.0
31		-----			-----		-----	234	-----	7.9	1.4	-----
TOTAL								7,635	2,936	462.8	111.3	60.13
MEAN								246	97.9	14.9	3.59	2.00
MAX								516	210	28	11	3.2
MIN								35	23	7.9	1.4	.93
AC-FT								15,140	5,820	918	221	119

PEAK DISCHARGE (BASE, 280 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5- 9	1600	3.48	750
5-18	2300	3.13	555
5-28	0300	3.62	838

GREEN RIVER BASIN

09228500 BURNT FORK NEAR BURNTFORK, WYO.

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, Utah, Wasatch National Forest, on left bank 0.6 mi (1.0 km) west of forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

AVERAGE DISCHARGE.--28 years (1943-71), 31.1 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 222 ft³/s (6.29 m³/s) May 29, gage height, 2.90 ft (0.884 m); minimum daily during period of operation, 8.6 ft³/s (0.24 m³/s) Sept. 28.

Period of record: Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

REMARKS.--Records fair. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1243: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								21	121	63	23	26
2								21	114	59	23	26
3								21	112	58	24	18
4								20	114	54	22	13
5								25	114	53	21	12
6								36	105	52	20	12
7								48	95	50	19	12
8								70	91	48	19	12
9								107	86	48	19	12
10								125	82	34	19	12
11								107	78	31	18	11
12								105	80	28	18	12
13								107	86	27	17	12
14								93	105	27	16	13
15								93	110	27	15	12
16								98	103	28	15	11
17								93	100	32	15	11
18								95	91	33	15	10
19								109	91	46	14	10
20								96	105	44	13	9.7
21								85	103	38	13	9.7
22								85	96	36	13	10
23								88	88	33	13	9.7
24								98	84	33	13	9.7
25								109	78	32	15	9.3
26								133	76	29	29	9.3
27								172	72	27	29	9.0
28								185	66	27	29	8.6
29								202	65	26	29	9.3
30								161	64	24	28	9.0
31		-----			-----		-----	131	-----	24	27	-----
TOTAL								2,939	2,775	1,171	603	360.3
MEAN								94.8	92.5	37.8	19.5	12.0
MAX								202	121	63	29	26
MIN								20	64	24	13	8.6
AC-FT								5,830	5,500	2,320	1,200	715

31

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, Wyoming, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir, and 3.0 mi (4.8 km) northeast of Manila, Utah.

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, Utah."

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to July 7, 1965, and July 8 to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

EXTREMES.--Current year: Maximum discharge, 808 ft³/s (22.9 m³/s) May 29, gage height, 4.63 ft (1.411 m); minimum daily, 1.8 ft³/s (0.051 m³/s) July 13, 14.

Period of record: Maximum discharge determined, 6,750 ft³/s (191 m³/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), discharge not determined; no flow for several days in 1933-35, 1939-40.

REMARKS.--Records fair except those for winter period, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1443: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	95	65	42	54	58	89	81	328	8.8	4.9	3.3
2	103	95	60	41	53	70	91	85	256	7.6	4.4	3.0
3	101	90	58	43	52	77	90	97	235	6.5	4.9	3.0
4	101	85	57	46	52	72	83	99	215	5.6	3.3	3.3
5	101	85	56	49	50	70	87	93	180	4.8	3.0	3.0
6	103	100	57	52	49	79	99	115	200	4.2	3.0	3.6
7	99	130	59	50	50	86	91	120	188	3.5	2.8	3.3
8	97	125	60	51	51	93	83	139	168	3.1	2.8	3.0
9	101	118	58	53	53	100	81	188	148	2.7	2.8	4.4
10	118	108	59	55	55	105	89	298	110	2.3	2.8	4.0
11	122	105	57	57	56	122	79	322	91	2.0	2.8	2.2
12	118	108	56	58	55	136	89	256	83	2.0	3.0	3.0
13	112	105	55	60	53	125	71	310	73	1.8	3.3	3.3
14	110	103	57	61	55	120	81	322	75	1.8	3.3	4.4
15	108	85	57	63	57	142	101	268	85	2.0	3.3	7.9
16	108	85	56	65	58	142	112	235	91	39	3.3	4.0
17	105	90	54	65	59	118	95	235	101	25	3.3	3.0
18	103	90	52	64	55	120	97	262	93	18	3.0	3.0
19	103	85	49	63	54	79	93	250	79	23	3.0	3.6
20	103	80	48	60	52	61	97	245	65	51	2.8	5.4
21	101	73	49	57	49	47	93	184	54	65	4.0	5.9
22	101	67	49	54	47	45	120	151	47	44	4.0	5.4
23	99	68	48	56	45	56	122	157	47	26	2.8	6.9
24	95	65	47	57	44	54	99	180	35	25	2.8	6.9
25	73	62	46	55	43	56	95	164	20	30	2.8	3.6
26	61	60	48	53	44	71	99	176	18	22	2.8	3.6
27	95	61	50	51	46	73	101	310	15	13	2.8	3.3
28	93	62	50	53	50	75	77	586	13	4.9	2.8	3.6
29	97	64	48	55	-----	67	83	688	12	5.4	2.8	8.4
30	97	65	46	55	-----	81	83	682	10	12	2.8	11
31	93	-----	44	55	-----	101	-----	490	-----	14	3.0	-----
TOTAL	3,129	2,614	1,655	1,699	1,441	2,701	2,759	7,788	3,135	476.0	99.2	132.3
MEAN	101	87.1	53.4	54.8	51.5	87.1	92.0	251	105	15.4	3.20	4.41
MAX	122	130	65	65	59	142	122	688	328	65	4.9	11
MIN	61	60	44	41	43	45	71	81	10	1.8	2.8	2.2
AC=FT	6,210	5,180	3,280	3,370	2,860	5,360	5,470	15,450	6,220	944	197	262
CAL YR 1973	TOTAL	60,636.0	MEAN	166	MAX	1,130	MIN	35	AC=FT	120,300		
WTR YR 1974	TOTAL	27,628.5	MEAN	75.7	MAX	688	MIN	1.8	AC=FT	54,800		

GREEN RIVER BASIN

09234400 Flaming Gorge Reservoir at Flaming Gorge Dam, Utah

LOCATION.—Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, at Flaming Gorge Dam on Green River, 1.8 miles (2.9 km) southwest of Dutch John, and 4 miles (6.4 km) northeast of Greendale.

DRAINAGE AREA.—15,100 sq mi (39,100 km²), approximately.

PERIOD OF RECORD.—November 1962 to current year.

GAGE.—Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964 on left bank 600 ft (180 m) upstream from face of dam.

EXTREMES.—Current year: Maximum contents observed, 3,751,000 acre-ft (4,620 hm³) Aug. 1 (elevation, 6,040.04 ft or 1,841.004 m); minimum observed, 2,873,000 acre-ft (3,540 hm³) Jan. 16 (elevation, 6,017.03 ft or 1,833.991 m).
Period of record: Maximum contents observed, 3,751,000 acre-ft (4,620 hm³) Aug. 1, 1974 (elevation, 6,040.04 ft or 1,841.004 m); minimum, 582,900 acre-ft (719 hm³), Apr. 26, 1965.

REMARKS.—Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft (4,670 hm³), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm³) below elevation 5,740 ft (1,750 m); inactive storage, 233,500 acre-ft (288 hm³) between elevations 5,740 (1,750 m) and 5,871 ft (1,789 m); usable contents, 3,516,000 acre-ft (4,340 hm³) between elevations 5,871 (1,789 m) and 6,040 ft (1,841 m) (top of conservation pool). Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents.

COOPERATION.—Records furnished by Bureau of Reclamation.

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

6,015	2,804,000	6,030	3,346,000
6,020	2,977,000	6,035	3,543,000
6,025	3,157,000	6,040	3,749,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,178	3,107	3,029	2,932	2,900	2,970	3,089	3,183	3,352	3,637	3,751	3,685
2	3,176	3,103	3,028	2,925	2,903	2,973	3,093	3,189	3,364	3,646	3,749	3,683
3	3,172	3,101	3,024	2,918	2,905	2,977	3,097	3,196	3,376	3,651	3,746	3,681
4	3,169	3,099	3,020	2,913	2,908	2,980	3,099	3,204	3,384	3,659	3,742	3,679
5	3,168	3,097	3,014	2,905	2,910	2,983	3,100	3,212	3,395	3,667	3,739	3,675
6	3,167	3,096	3,010	2,899	2,913	2,986	3,104	3,219	3,406	3,674	3,737	3,669
7	3,167	3,093	3,006	2,893	2,916	2,989	3,106	3,225	3,418	3,681	3,735	3,663
8	3,166	3,091	3,002	2,888	2,919	2,994	3,107	3,230	3,428	3,686	3,734	3,658
9	3,165	3,089	2,999	2,883	2,921	2,999	3,110	3,233	3,440	3,689	3,734	3,654
10	3,163	3,087	2,995	2,881	2,923	3,005	3,113	3,239	3,451	3,691	3,732	3,647
11	3,160	3,087	2,992	2,878	2,925	3,010	3,115	3,247	3,460	3,693	3,730	3,641
12	3,157	3,085	2,989	2,877	2,928	3,015	3,115	3,255	3,466	3,695	3,726	3,635
13	3,155	3,083	2,986	2,876	2,931	3,020	3,117	3,264	3,469	3,698	3,726	3,629
14	3,155	3,079	2,983	2,874	2,934	3,025	3,120	3,276	3,471	3,701	3,725	3,624
15	3,152	3,077	2,978	2,874	2,936	3,030	3,121	3,286	3,477	3,703	3,723	3,620
16	3,150	3,074	2,975	2,873	2,938	3,036	3,124	3,291	3,483	3,706	3,721	3,615
17	3,148	3,072	2,971	2,875	2,941	3,040	3,126	3,295	3,488	3,710	3,719	3,611
18	3,144	3,072	2,967	2,876	2,944	3,046	3,128	3,300	3,492	3,712	3,718	3,607
19	3,140	3,070	2,965	2,876	2,947	3,051	3,129	3,305	3,498	3,714	3,718	3,603
20	3,137	3,067	2,964	2,877	2,949	3,055	3,133	3,311	3,508	3,718	3,714	3,602
21	3,135	3,063	2,961	2,878	2,952	3,059	3,139	3,316	3,518	3,721	3,711	3,601
22	3,133	3,061	2,958	2,879	2,955	3,062	3,143	3,320	3,528	3,723	3,708	3,600
23	3,130	3,057	2,958	2,878	2,957	3,065	3,147	3,324	3,543	3,726	3,705	3,597
24	3,126	3,055	2,957	2,874	2,959	3,067	3,151	3,328	3,556	3,729	3,702	3,597
25	3,124	3,051	2,956	2,882	2,961	3,069	3,154	3,330	3,570	3,733	3,701	3,596
26	3,121	3,046	2,952	2,885	2,963	3,071	3,158	3,330	3,584	3,735	3,698	3,595
27	3,118	3,039	2,948	2,888	2,966	3,073	3,163	3,329	3,597	3,737	3,695	3,594
28	3,117	3,035	2,945	2,891	2,968	3,076	3,168	3,329	3,607	3,740	3,692	3,592
29	3,117	3,033	2,943	2,893	2,968	3,080	3,173	3,330	3,617	3,742	3,691	3,588
30	3,115	3,030	2,943	2,896	2,968	3,084	3,178	3,335	3,628	3,744	3,689	3,583
31	3,110	-----	2,938	2,898	2,968	3,087	-----	3,342	-----	3,747	3,687	-----
MAX	3,178	3,107	3,029	2,932	2,968	3,087	3,178	3,342	3,628	3,747	3,751	3,685
MIN	3,110	3,030	2,938	2,873	2,900	2,970	3,089	3,183	3,352	3,637	3,687	3,583
(†)	6,023.72	6,021.49	6,018.89	6,017.73	6,019.74	6,023.08	6,025.56	6,029.90	6,037.09	6,039.96	6,038.51	6,035.97
(‡)	-70	-80	-92	-40	+70	+119	+91	+164	+286	+119	-60	-104
CAL YR 1973.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WTR YR 1974.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

† Elevation, in feet, at end of month.

‡ Change in contents, in thousands of acre-feet

LOCATION.—Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Ashley National Forest on right bank 0.5 mile (0.8 km) downstream from Flaming Gorge Dam, 2 miles (3 km) south of Dutch John, 4 miles (6 km) northeast of Greendale, and 407.0 miles (654.9 km) from mouth.

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

AVERAGE DISCHARGE.—24 years, 2,030 ft³/s (57.5 m³/s), 1,471,000 acre-ft/yr (1.81 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,600 ft³/s (133 m³/s) Jan. 9 (gage height, 6.43 ft or 1.960 m); maximum gage height, 6.50 ft (1.978 m) Nov. 1; minimum discharge, 410 ft³/s (20.3 m³/s) Oct. 3.
Period of record: Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957 (gage height, 10.60 ft or 3.231 m, site and datum then in use); minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963 (regulated).

REMARKS.--Records good. Transbasin diversions and diversions for irrigation above station. Flow completely regulated by Flaming Gorge Reservoir 0.5 mile (0.8 km) upstream, since Nov. 1, 1962 (see sta 09234400). Records of chemical analysis and water temperatures for the water year 1974 are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,650	3,390	2,640	3,950	810	798	1,070	992	2,240	2,270	1,570	1,900
2	2,640	3,000	1,730	4,310	811	799	827	863	2,020	2,530	2,980	1,810
3	2,880	2,580	3,010	4,390	813	800	827	863	2,300	1,550	2,600	1,660
4	3,090	1,770	2,920	4,420	807	905	838	869	2,400	844	3,150	2,060
5	2,090	2,540	3,120	4,420	819	789	1,080	876	1,960	1,620	3,180	2,700
6	1,210	2,570	3,140	4,430	873	789	881	2,200	2,780	1,020	2,670	3,470
7	815	2,060	3,110	4,410	824	788	877	1,880	2,750	1,170	2,160	3,180
8	2,330	2,440	3,070	4,330	807	788	1,100	2,960	2,870	2,430	2,010	3,110
9	2,830	2,810	2,860	4,040	808	789	868	4,130	1,830	1,630	2,160	3,360
10	2,920	3,050	3,020	1,950	809	789	869	4,300	3,080	1,830	2,200	3,960
11	2,990	1,350	2,940	2,310	810	789	1,370	3,180	2,340	965	2,060	3,870
12	2,660	2,520	2,320	1,080	805	791	2,760	3,120	2,960	1,130	2,120	3,380
13	2,080	2,120	2,470	1,090	808	808	851	3,020	2,740	963	1,780	3,350
14	1,100	2,680	2,650	1,720	804	853	850	1,390	2,690	837	2,420	3,040
15	2,740	2,500	3,400	1,180	804	844	861	2,140	1,120	1,300	2,220	2,570
16	2,520	3,140	2,440	1,180	800	829	858	4,400	824	1,400	2,290	3,090
17	2,390	2,600	3,270	861	800	829	902	4,430	2,500	1,600	2,070	2,900
18	3,330	939	3,290	1,040	801	830	858	4,340	2,370	1,770	1,410	2,640
19	3,580	2,700	1,960	878	800	835	848	4,330	2,170	1,540	2,490	2,260
20	2,320	3,340	1,780	914	802	836	860	4,220	2,590	1,060	2,080	1,220
21	1,900	3,370	2,600	1,280	803	836	861	3,860	2,310	1,110	2,410	1,030
22	1,920	1,670	2,720	863	803	843	863	3,290	1,790	1,600	2,210	1,060
23	2,930	2,650	1,430	2,140	798	845	863	3,840	1,020	2,090	2,510	2,230
24	2,880	2,800	1,450	876	800	846	851	3,380	2,180	1,270	2,430	1,110
25	2,370	3,030	1,160	875	801	846	1,850	3,160	2,190	1,410	1,760	1,070
26	2,640	3,090	2,790	875	800	850	1,110	3,070	2,490	1,410	2,460	1,160
27	2,560	4,060	2,850	876	797	847	847	3,200	2,480	1,110	2,250	1,120
28	1,530	2,750	2,150	919	797	844	849	3,410	2,340	1,170	2,120	1,540
29	2,450	1,910	2,070	828	-----	850	854	3,520	2,270	1,050	1,300	2,400
30	2,170	2,360	1,300	824	-----	853	1,090	3,430	839	1,150	1,920	2,820
31	2,940	-----	2,850	852	-----	853	-----	3,270	-----	1,050	2,000	-----
TOTAL	74,455	77,789	78,510	64,111	22,614	25,591	30,293	91,933	66,443	43,879	68,990	71,070
MEAN	2,402	2,593	2,533	2,068	808							

GREEN RIVER BASIN

09234700 Red Creek near Dutch John, Utah

LOCATION.—Lat 40°58'11", long 109°14'12", in SE¼NW¼ sec.29, T.3 N., R.24 E., Daggett County, on right bank 0.5 mile (0.8 km) downstream from Clay Basin Creek, 7.4 miles (11.9 km) upstream from mouth, and 9.0 miles (14.5 km) east of Dutch John.

DRAINAGE AREA.—140 mi² (363 km²).

PERIOD OF RECORD.—February 1971 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,180 ft (1,884 m) from topographic map.

EXTREMES.—Maximum discharge during year, 283 ft³/s (8.01 m³/s) July 17 (gage height, 2.50 ft or 0.762 m), from rating table extended above 35 ft³/s (0.99 m³/s) on basis of area-velocity study; minimum, 0.43 ft³/s (0.012 m³/s) several days in August and September.

Period of record: Maximum discharge, 656 ft³/s (18.6 m³/s) July 13, 1973 (gage height, 3.25 ft or 0.991 m, from floodmarks), from rating table extended above 35 ft³/s (0.99 m³/s) on basis of area-velocity study; no flow for part of several days during July and August 1972.

REMARKS.—Records fair, except those for winter period, which are poor. Records of water temperatures and suspended-sediment loads for the water year 1974 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.4	2.5	2.0	2.5	5.5	7.9	28	9.5	3.5	2.3	.90
2	1.4	1.9	2.5	2.0	2.5	7.0	14	28	9.0	4.5	2.5	.90
3	1.1	1.9	2.5	2.0	2.5	9.0	11	24	9.0	4.5	2.5	1.0
4	1.3	2.0	2.5	2.0	2.5	11	13	28	9.5	3.8	2.1	1.0
5	1.5	2.0	2.5	2.0	2.5	15	12	31	11	3.5	1.9	.90
6	1.4	5.0	2.5	2.0	2.5	18	12	34	11	3.2	1.9	.81
7	1.2	8.0	2.5	2.0	2.5	25	8.4	35	11	3.0	2.5	.64
8	1.3	6.2	2.5	2.0	2.5	34	7.9	40	25	2.5	3.0	.72
9	3.9	4.2	2.5	2.0	2.5	40	9.5	39	19	2.7	12	1.0
10	3.8	3.1	2.5	2.0	2.5	44	16	35	16	2.3	6.0	.90
11	3.7	2.7	2.5	2.0	3.0	35	26	31	11	2.5	3.5	.90
12	4.0	2.9	2.5	2.0	3.0	31	23	31	8.4	2.5	2.7	1.7
13	3.6	3.2	2.5	2.0	3.0	35	18	28	7.9	2.3	2.3	1.6
14	3.0	3.3	2.5	2.0	3.0	23	43	25	7.4	2.3	1.2	1.2
15	2.9	2.4	2.5	2.0	3.0	30	34	23	7.4	2.5	.90	1.4
16	3.1	3.0	2.5	2.0	3.5	21	22	24	8.4	4.1	.81	1.3
17	2.9	2.6	2.5	2.0	3.5	23	20	23	7.9	20	.64	1.1
18	3.0	2.8	2.5	2.0	3.5	20	20	22	6.9	4.1	.56	1.0
19	2.8	3.1	2.5	2.0	3.5	13	20	21	6.5	2.7	.49	.95
20	2.7	1.8	2.3	2.0	3.5	11	29	20	5.6	4.8	.49	.90
21	2.7	1.7	2.3	2.0	3.6	11	20	20	5.2	6.0	.56	.90
22	2.7	1.7	2.3	2.0	3.8	7.9	15	17	5.6	3.2	.64	.90
23	2.4	1.7	2.3	2.0	4.0	11	17	16	5.2	3.2	.64	1.0
24	2.5	1.8	2.3	2.0	4.3	11	23	14	4.8	3.2	.64	.90
25	2.6	1.9	2.3	2.0	4.5	9.0	29	14	4.5	3.2	.64	.90
26	2.4	2.0	2.3	2.0	4.8	12	36	14	4.1	2.7	.64	.90
27	2.3	2.2	2.3	2.0	5.6	12	30	15	3.8	2.3	.64	1.0
28	3.0	2.3	2.3	2.0	4.1	12	19	14	3.8	2.5	.81	1.2
29	3.2	2.4	2.3	2.0	-----	9.5	17	13	3.5	2.3	.81	1.4
30	3.0	2.5	2.3	2.0	-----	12	20	11	3.2	2.5	.90	1.4
31	3.1	-----	2.3	2.0	-----	14	-----	10	-----	2.5	.90	-----
TOTAL	80.5	85.7	75.1	62.0	92.2	571.9	592.7	728	251.1	114.9	58.11	31.32
MEAN	2.60	2.86	2.42	2.00	3.29	18.4	19.8	23.5	8.37	3.71	1.87	1.04
MAX	4.0	8.0	2.5	2.0	5.6	44	43	40	25	20	12	1.7
MIN	1.1	1.7	2.3	2.0	2.5	5.5	7.9	10	3.2	2.3	.49	.64
AC-FT	160	170	149	123	183	1,130	1,180	1,440	498	228	115	62

CAL YR 1973 TOTAL 3,007.24 MEAN 8.24 MAX 38 MIN .40 AC-FT 5,960
WTR YR 1974 TOTAL 2,743.53 MEAN 7.52 MAX 44 MIN .49 AC-FT 5,440

GREEN RIVER BASIN

35

09235600 Pot Creek above diversions, near Vernal, Utah

LOCATION.--Lat 40°46'05", long 109°19'06", in NE¼ sec.3, T.1 S., R.23 E., Uintah County, on left bank 0.3 mile (0.5 km) upstream from Matt Warner Reservoir, and 27 miles (43 km) northeast of Vernal.

DRAINAGE AREA.--25 sq mi (65 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft (2,301 m) from topographic map. Prior to Aug. 26, 1965, at site 0.2 mile (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--17 years, 3.81 ft³/s (0.100 m³/s), 2,560 acre-ft/yr (3.16 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 161 ft³/s (4.56 m³/s) Apr. 25 (gage height, 3.01 ft or 0.917 m); no flow part of year.
Period of record: Maximum discharge recorded, 286 ft³/s (8.10 m³/s) May 10, 1973 (gage height, 3.55 ft or 1.082 m); maximum gage height recorded, 4.57 ft (1.393 m) Apr. 11, 1969 (backwater from ice); no flow for part of each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.67	.60			0	7.4	28	4.3	.33	0	0
2	.30	.65	.50			0	7.4	27	3.9	.31	0	0
3	.30	.60	.40			0	7.4	24	3.6	.31	0	0
4	.30	.60	.40			0	7.5	23	3.6	.27	0	0
5	.33	.60	.40			0	7.6	25	4.3	.23	0	0
6	.36	.60	.40			0	7.6	27	5.0	.19	0	0
7	.36	.60	.40			0	7.6	27	4.0	.15	0	0
8	.38	.80	.40			0	7.6	31	7.1	.12	0	0
9	.58	1.0	.40			0	7.6	32	8.8	.09	0	0
10	.72	.96	.40			0	7.6	33	8.6	.05	.12	0
11	.67	.85	.40			0	7.8	29	5.0	0	.07	0
12	.62	.81	.20			0	7.6	27	3.2	0	0	0
13	.62	.81	.20			0	7.7	27	2.4	0	0	0
14	.58	.81	.20			0	7.7	24	1.9	0	0	0
15	.53	.67	.20			0	7.8	21	1.6	0	0	0
16	.53	.72	.20			.20	8.4	19	1.5	.02	0	0
17	.49	.67	.20			.60	11	16	1.4	.11	0	0
18	.49	.76	.15			1.0	14	14	1.6	.11	0	0
19	.53	.70	.10			1.5	20	14	1.1	.09	0	0
20	.53	.60	.05			2.0	15	15	.86	.02	0	0
21	.53	.60	0			2.3	16	16	.70	.09	0	0
22	.49	.60	0			2.7	20	13	.71	.01	0	0
23	.49	.60	0			3.0	32	11	.68	0	0	0
24	.49	.60	0			3.5	43	9.8	.60	.13	0	0
25	.49	.60	0			4.0	78	8.3	.51	.15	0	0
26	.53	.60	0			4.6	118	7.5	.46	.13	0	0
27	.49	.60	0			5.2	60	6.9	.43	.06	0	0
28	.53	.60	0			6.0	30	6.4	.39	.09	0	.04
29	.58	.60	0		-----	7.0	26	5.8	.33	.01	0	.05
30	.62	.60	0		-----	7.2	26	5.2	.29	0	0	.05
31	.62	-----	0		-----	7.3	-----	4.8	-----	0	0	-----
TOTAL	15.38	20.48	6.20	0	0	58.10	631.3	577.7	78.86	3.07	.19	.14
MEAN	.50	.68	.20	0	0	1.87	21.0	18.6	2.63	.099	.006	.005
MAX	.72	1.0	.60	0	0	7.3	118	33	8.8	.33	.12	.05
MIN	.30	.60	0	0	0	0	7.4	4.8	.29	0	0	0
AC-FT	31	41	12	0	0	115	1,250	1,150	156	6.1	.4	.3

CAL YR 1973 TOTAL 3,261.41 MEAN 8.94 MAX 188 MIN 0 AC-FT 6,470
WTR YR 1974 TOTAL 1,391.42 MEAN 3.81 MAX 118 MIN 0 AC-FT 2,760

PEAK DISCHARGE (BASE, 30 CFS).--Apr. 25 (2400) 161 cfs (3.01 ft); May 9 (2100) 35 cfs (2.04 ft).

NOTE:--No gage-height record Dec. 22 to Mar. 28.

LOCATION.—Lat 40°40'25", long 109°03'03", in SW¼ sec.1, T.2 S., R.25 E., Daggett County, on left bank 0.2 mile (0.3 km) upstream from Utah-Colorado State line, 7 miles (11 km) upstream from mouth, and 29 miles (47 km) northeast of Vernal.

DRAINAGE AREA.--106 mi² (275 km²).

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

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 6,900 ft (2,103 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 2.00 ft³/s (0.0566 m³/s), 1,450 acre-ft/yr (1.79 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 26 ft³/s (0.74 m³/s) Oct. 10 (gage height, 1.53 ft or 0.466 m); no flow for part of year. Period of record: Maximum discharge, 286 ft³/s (8.10 m³/s) Apr. 7, 1962 (gage height, 3.85 ft or 1.173 m), from rating curve extended above 170 ft³/s (4.81 m³/s); maximum gage height, 3.99 ft (1.216 m) Mar. 15, 1966 (backwater from ice); no flow for part of each year.

REMARKS.--Records good. Flow regulated by Matt Warner and Grouse Reservoirs, 14 miles (23 km) and 7 miles (11 km) upstream, respectively, combined capacity, about 4,000 acre-ft (4.93 km³). Several diversions for irrigation above station, and one diversion to Grouse Creek, which diverts to Grouse Creek Basin.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.32	.12	.01		0	.22	.16	0	0	0	0
2	.01	.26	.08	.01		0	.33	.16	0	0	0	0
3	0	.38	.10	.01		0	.27	.15	0	0	0	0
4	0	.45	.13	.01		0	.25	.14	0	4.6	0	0
5	0	.34	.07	.01		0	.20	.12	0	13	0	0
6	0	.34	.05	.01		0	.17	.11	0	15	0	0
7	0	.33	.05	.01		0	.15	.09	0	16	0	0
8	8.0	.39	.06	.01		0	.11	.09	.02	9.6	0	0
9	21	.29	.05	.01		0	.11	.09	.03	.43	0	0
10	24	.23	.04	.01		0	.13	.09	.02	.07	0	0
11	20	.18	.04	.01		0	.25	.06	.01	.01	0	0
12	18	.16	.04	.01		0	.44	.05	.01	0	0	0
13	16	.14	.04	.01		0	.58	.04	.01	0	0	0
14	13	.12	.04	.01		0	.89	.02	.01	0	1.7	0
15	8.1	.09	.04	.01		0	1.2	.03	.01	0	8.1	0
16	5.8	.10	.04	.01		.17	2.3	.01	.01	0	10	0
17	3.9	.09	.03	.01		1.1	1.0	.01	0	0	7.8	0
18	2.8	.09	.03	.01		.87	.55	.01	0	0	.55	.86
19	2.2	.16	.03	.01		.82	.44	0	0	0	.06	1.3
20	1.9	.12	.03	.01		.60	.69	0	0	.09	.01	.25
21	1.6	.12	.03	.01		.48	.74	.01	0	.02	0	.02
22	1.4	.10	.03	.01		.40	.47	.01	0	0	0	0
23	1.3	.12	.02	.01		.36	.36	0	0	0	0	0
24	1.0	.13	.02	.01		.28	.27	0	0	0	0	0
25	1.1	.12	.02	.01		.24	.21	0	0	0	0	0
26	1.7	.10	.02	.01		.21	.18	0	0	0	0	0
27	1.4	.08	.02	0		.25	.20	0	0	0	0	0
28	1.0	.07	.02	0		.23	.19	0	0	0	0	0
29	.77	.09	.02	0	-----	.22	.17	0	0	0	0	0
30	.56	.11	.01	0	-----	.21	.17	0	0	0	0	0
31	.45	-----	.01	0	-----	.23	-----	0	-----	0	0	-----
TOTAL	157.00	5.62	1.33	.26	0	6.67	13.24	1.43	.13	58.82	28.22	2.43
MEAN	5.06	.19	.043	.008	0	.22	.44	.046	.004	1.90	.91	.081
MAX	24	.45	.13	.01	0	1.1	2.3	.16	.03	16	10	1.3
MIN	0	.07	.01	0	0	0	.11	0	0	0	0	0
AC-FT	311	11	2.6	.5	0	13	26	2.8	.3	117	56	4.8
CAL YR 1973	TOTAL	2,900.04	MEAN	7.95	MAX	113	MIN	0	AC-FT	5,750		
WTR YR 1974	TOTAL	275.15	MEAN	.75	MAX	24	MIN	0	AC-FT	546		

09261000 Green River near Jensen, Utah

LOCATION.--Lat 40°24'34", long 109°14'05", in NE¼SW¼SE¼ sec.5, T.5 S., R.24 E., Uintah County, Dinosaur National Monument, on right bank 300 ft (91 m) upstream from highway bridge, 1 mile (2 km) downstream from Cub Creek and Chew Ranch, 4 miles (6 km) southeast of Dinosaur National Monument headquarters, 6.5 miles (10.5 km) northeast of Jensen, 12 miles (19 km) upstream from Brush Creek, and 313.9 miles (505.1 km) from mouth.

DRAINAGE AREA.--25,400 sq mi (65,786 km²), approximately.

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen", except October to December 1903, which was published as "near Vernal".

GAGE.--Water-stage recorder. Altitude of gage is 4,758 ft (1,450 m) from river-profile map. Prior to Oct. 1, 1946, nonrecording gages at site 15 miles (24 km) downstream at different datums. Dec. 13, 1946 to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft (0.457 m) higher.

AVERAGE DISCHARGE.--29 years (1903-04, 1946-74), 4,375 ft³/s (123.9 m³/s), 3,170,000 acre-ft/yr (3.91 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 27,000 ft³/s (765 m³/s) May 12 (gage height, 11.11 ft or 3.386 m); minimum, 1,070 ft³/s (30.3 m³/s) Sept. 29.
Period of record: Maximum discharge, 36,500 ft³/s (1,030 m³/s) June 16, 1957 (gage height, 13.22 ft or 4.029 m); minimum observed, 102 ft³/s (2.89 m³/s) Dec. 6, 1904.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Transbasin diversions and diversions for irrigation above station. Flow partly regulated by Flaming Gorge Reservoir (see sta 09234400) since Nov. 1, 1962. Records of chemical analysis, water temperatures, and suspended-sediment loads for the water year 1974 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1243: 1904(M); WRD Utah 1973: 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,170	3,080	2,820	2,410	1,400	1,400	3,540	12,100	17,100	5,580	1,850	2,270
2	1,860	3,790	3,050	4,000	1,400	1,480	4,220	11,200	14,900	5,340	1,890	2,190
3	2,610	3,580	2,480	4,600	1,400	1,550	4,010	13,100	13,600	5,770	3,320	2,080
4	3,160	3,240	3,190	4,800	1,400	1,800	3,420	14,600	13,300	5,050	3,610	1,980
5	3,560	2,110	3,600	4,900	1,400	1,870	3,130	13,100	13,200	4,000	3,780	1,800
6	2,690	2,840	3,360	4,900	1,400	1,740	2,960	14,500	12,300	3,410	3,870	2,660
7	2,000	3,050	3,550	4,900	1,400	1,990	2,970	16,900	14,600	3,880	3,610	3,630
8	1,580	2,940	3,490	4,900	1,400	2,010	2,730	18,800	18,300	2,940	2,700	3,420
9	2,000	3,090	3,460	4,900	1,400	2,100	2,880	20,600	15,600	3,570	2,780	3,270
10	3,030	3,690	3,270	4,800	1,400	2,220	2,810	23,300	13,400	3,560	2,700	3,520
11	3,340	3,840	3,460	3,000	1,400	2,570	2,680	25,400	12,400	3,750	2,930	4,120
12	3,460	2,860	3,500	2,000	1,400	2,610	3,440	26,400	11,600	2,830	2,600	4,100
13	3,260	2,900	2,920	2,000	1,400	2,620	5,090	25,400	11,000	2,520	3,010	3,510
14	2,570	3,060	2,980	2,000	1,400	2,830	4,410	21,800	10,700	2,470	2,470	3,610
15	2,200	3,350	3,210	2,300	1,400	3,210	3,370	18,900	11,200	2,160	2,850	3,270
16	2,630	3,280	3,740	2,030	1,400	3,220	3,150	15,000	10,800	2,000	2,780	2,790
17	3,040	3,840	3,230	2,040	1,400	3,040	3,050	15,800	10,800	2,330	3,020	3,230
18	2,930	3,540	3,600	1,670	1,400	3,400	3,140	16,600	12,100	2,450	2,700	3,140
19	3,760	2,460	3,780	1,560	1,400	3,980	3,700	17,300	13,000	2,730	2,170	2,880
20	4,120	2,430	2,670	1,620	1,400	4,100	5,070	17,300	12,700	2,990	2,450	2,940
21	3,170	3,890	2,310	1,520	1,400	3,700	6,710	18,600	12,000	2,820	2,730	1,730
22	2,560	3,890	2,830	1,520	1,400	3,200	6,600	18,500	11,200	2,330	2,790	1,330
23	2,420	3,010	3,190	1,870	1,400	2,900	6,270	14,400	10,300	2,670	2,610	1,280
24	2,960	2,420	2,360	2,020	1,400	2,650	6,320	13,000	9,150	3,280	2,780	1,970
25	3,340	3,090	2,000	2,380	1,400	2,500	7,850	12,400	8,730	3,140	2,820	1,730
26	3,080	3,370	1,890	1,770	1,400	2,430	9,550	12,200	8,680	2,570	2,470	1,320
27	3,000	3,510	2,510	1,500	1,400	2,290	12,900	12,700	8,300	2,680	2,450	1,300
28	3,020	4,480	3,420	1,400	1,430	2,370	15,700	13,900	7,830	2,480	2,740	1,300
29	2,320	3,380	2,910	1,400	-----	2,710	17,800	15,700	7,420	2,260	2,510	1,350
30	2,570	2,470	2,670	1,400	-----	3,370	14,700	16,500	7,000	2,060	1,930	2,380
31	2,820	-----	2,380	1,400	-----	3,430	-----	16,900	-----	1,910	1,950	-----
TOTAL	87,230	96,480	93,830	83,910	39,230	81,290	174,170	522,900	353,210	97,530	84,870	76,100
MEAN	2,814	3,216	3,027	2,707	1,401	2,622	5,806	16,870	11,770	3,146	2,738	2,537
MAX	4,120	4,480	3,780	4,900	1,430	4,100	17,800	26,400	18,300	5,770	3,870	4,120
MIN	1,580	2,110	1,890	1,400	1,400	1,400	2,680	11,200	7,000	1,910	1,850	1,280
AC-FT	173,000	191,400	186,100	166,400	77,810	161,200	345,500	1,037,400	700,600	193,500	168,300	150,900
CAL YR 1973	TOTAL 1,906,590 MEAN 5,224 MAX 22,100 MIN 1,200 AC-FT 3,782,000											
WTR YR 1974	TOTAL 1,790,750 MEAN 4,906 MAX 26,400 MIN 1,280 AC-FT 3,552,000											

NOTE:--No gage-height record Jan. 27 to Feb. 27.

09262000 Big Brush Creek near Vernal, Utah

LOCATION.—Lat 40°34'54", long 109°26'03", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.3 S., R.22 E., Uintah County, on left bank 3 miles (5 km) upstream from Little Brush Creek and 10 miles (16 km) northeast of Vernal.

DRAINAGE AREA.—82 mi² (212 km²), approximately.

PERIOD OF RECORD.—March 1939 to current year. Prior to October 1964, published as Brush Creek near Vernal.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 5,530 ft (1,686 m) from topographic map. Prior to Apr. 25, 1959, water-stage recorder at site 0.4 mile (0.6 km) downstream at different datum. Apr. 25, 1959 to Mar. 5, 1968, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.—35 years, 35.4 ft³/s (1.003 m³/s), 25,650 acre-ft/yr (31.6 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 219 ft³/s (6.20 m³/s) May 11, 12 (gage height, 2.29 ft or 0.698 m); minimum recorded, 10 ft³/s (0.30 m³/s) Sept. 6-10.

Period of record: Maximum discharge, 543 ft³/s (15.4 m³/s) July 12, 1962 (gage height, 4.73 ft or 1.442 m, present datum), from rating curve extended above 370 ft³/s (10.5 m³/s); minimum recorded, 1.6 ft³/s (0.045 m³/s) Mar. 12, 1951.

REMARKS.—Records good except those for winter period, which are fair. Two small diversions above station for irrigation of about 80 acres (32 ha) lying both above and below station. Since July 1940, water from Oaks Park Reservoir on headwaters, capacity, 6,250 acre-ft (7.70 hm³) has been diverted above station to Ashley Creek basin for irrigation through Oaks Park Canal.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	17	16	15	14	14	17	52	160	26	13	12
2	23	17	16	15	14	14	16	69	146	26	13	12
3	23	17	16	15	14	14	16	65	129	26	13	11
4	23	16	16	15	14	14	15	72	112	25	13	11
5	23	16	16	15	14	14	15	92	109	24	13	11
6	23	16	15	15	14	14	15	121	111	24	12	11
7	23	16	15	15	14	14	14	122	95	22	12	10
8	23	16	15	15	14	14	14	175	97	22	12	10
9	24	16	15	15	14	14	14	194	89	22	12	10
10	23	16	15	15	14	14	14	201	102	22	12	11
11	23	16	15	15	14	14	14	217	98	23	12	11
12	23	16	15	15	14	15	13	212	77	21	12	12
13	23	16	15	15	14	15	13	212	61	20	12	11
14	23	16	15	15	14	14	13	199	54	18	12	11
15	23	16	15	15	14	14	13	185	51	17	18	11
16	23	16	15	15	14	14	13	180	49	17	24	12
17	23	16	15	15	14	14	13	173	48	16	16	11
18	23	16	15	15	14	14	14	173	46	16	15	11
19	22	16	15	15	14	14	14	183	45	15	13	11
20	22	16	15	15	14	14	14	189	41	15	13	11
21	22	16	15	14	14	13	15	182	37	15	13	11
22	21	17	15	14	14	13	15	156	34	14	13	11
23	21	17	15	14	14	13	15	162	33	14	12	11
24	19	17	15	14	14	13	16	164	32	14	12	11
25	17	16	15	14	14	13	21	164	31	14	12	11
26	17	16	15	14	14	13	41	166	29	13	12	12
27	17	16	15	14	14	13	56	180	29	13	12	11
28	17	16	15	14	14	16	49	185	28	13	12	11
29	17	16	15	14	-----	21	47	183	27	13	12	11
30	17	16	14	14	-----	19	44	185	27	13	12	11
31	17	-----	15	14	-----	18	-----	176	-----	13	12	-----
TOTAL	661	486	469	454	392	447	603	4,989	2,027	566	406	332
MEAN	21.3	16.2	15.1	14.6	14.0	14.4	20.1	161	67.6	18.3	13.1	11.1
MAX	24	17	16	15	14	21	56	217	160	26	24	12
MIN	17	16	14	14	14	13	13	52	27	13	12	10
CFSM	.26	.20	.18	.18	.17	.18	.25	1.96	.82	.22	.16	.14
IN.	.30	.22	.21	.21	.18	.20	.27	2.26	.92	.26	.18	.15
CAL YR 1973	TOTAL 20,213	MEAN 55.4	MAX 324	MIN 12	CFSM .68	IN 9.17						
WTR YR 1974	TOTAL 11,832	MEAN 32.4	MAX 217	MIN 10	CFSM .40	IN 5.37						

NOTE.—No gage-height record Jan. 19 to Mar. 6.

09265300 Ashley Creek above Red Pine Creek, near Vernal, Utah

LOCATION.--Lat 40°40'47", long 109°39'37", in NE¼ sec.3, T.2 S., R.20 E., Uintah County, Ashley National Forest, on right bank 0.2 mile (0.3 km) upstream from Cow Hollow, and 17 miles (27 km) north-northwest of Vernal.

DRAINAGE AREA.--55.8 mi² (144.5 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7,870.03 ft (2,398.785 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--10 years, 65.5 ft³/s (1.855 m³/s), 47,450 acre-ft/yr (58.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) May 9 (gage height, 6.55 ft or 1.996 m); minimum recorded, 1.0 ft³/s (0.028 m³/s) Apr. 21.

Period of record: Maximum discharge, about 7,400 ft³/s (210 m³/s) June 10, 1965 (gage height, 12.13 ft or 3.697 m, from floodmarks), from rating curve extended above 420 ft³/s (11.9 m³/s) on basis of an estimate at peak flow based on a field survey; minimum recorded, about 0.80 ft³/s (0.023 m³/s) Apr. 22, 1968, result of freezeup.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow partly regulated by Long Park Reservoir, capacity 520 acre-ft (0.641 hm³). No diversion above station.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.8	4.0	3.5	3.0	2.0	1.5	23	116	25	19	9.0
2	19	6.5	4.0	3.5	3.0	2.0	1.5	40	104	26	18	9.0
3	19	6.5	4.0	3.5	3.0	2.0	1.5	48	98	26	18	8.7
4	18	6.5	4.0	3.5	3.0	2.0	1.5	88	92	24	18	8.7
5	18	6.9	4.0	3.5	3.0	2.0	1.5	160	92	25	18	8.4
6	17	7.5	4.0	3.5	3.0	2.0	1.5	239	91	27	17	7.8
7	17	8.1	4.0	3.5	3.0	2.0	1.5	359	81	58	17	8.1
8	16	8.2	4.0	3.5	3.0	2.0	1.5	495	82	59	18	7.8
9	16	7.5	4.0	3.5	3.0	2.0	1.5	630	119	56	18	7.8
10	16	7.4	4.0	3.5	3.0	2.0	1.5	492	122	54	18	7.6
11	15	7.3	4.0	3.5	3.0	2.0	1.5	384	90	50	17	7.6
12	14	7.0	4.0	3.5	3.0	2.0	1.5	390	72	44	14	7.6
13	13	6.5	4.0	3.5	3.0	2.0	1.5	365	65	40	15	7.6
14	15	6.0	4.0	3.5	3.0	2.0	1.5	288	60	29	13	7.6
15	16	6.2	4.0	3.5	3.0	2.0	1.5	287	60	21	10	7.6
16	15	6.4	4.0	3.5	3.0	2.0	1.5	317	55	20	12	7.3
17	14	6.6	4.0	3.5	3.0	2.0	1.5	293	54	61	12	7.3
18	13	6.3	4.0	3.5	3.0	2.0	1.4	268	52	87	12	6.5
19	13	6.4	4.0	3.5	3.0	2.0	1.5	248	47	90	11	7.3
20	13	6.2	4.0	3.5	3.0	2.0	1.4	183	42	51	11	7.1
21	13	5.0	4.0	3.5	3.0	2.0	1.3	157	40	31	11	6.9
22	12	5.0	4.0	3.5	3.0	2.0	1.4	142	40	23	10	6.8
23	12	5.0	4.0	3.5	3.0	2.0	1.7	135	39	22	10	6.8
24	9.8	5.0	4.0	3.5	3.0	2.0	2.6	128	35	27	10	6.8
25	9.7	5.0	4.0	3.5	3.0	2.0	4.0	131	33	27	10	6.8
26	8.9	5.0	4.0	3.5	3.0	2.0	6.1	149	32	23	10	6.8
27	9.1	5.0	4.0	3.5	3.0	2.0	7.1	180	30	21	9.9	6.6
28	11	5.0	4.0	3.5	3.0	2.0	9.2	174	30	21	9.3	6.4
29	10	5.0	4.0	3.5	-----	2.0	10	161	27	20	7.3	6.3
30	8.7	5.0	4.0	3.5	-----	2.0	15	147	27	18	9.3	6.5
31	9.7	-----	4.0	3.5	-----	2.0	-----	122	-----	19	9.3	-----
TOTAL	430.9	188.8	124.0	108.5	84.0	62.0	88.2	7,223	1,927	1,125	412.1	223.1
MEAN	13.9	6.29	4.00	3.50	3.00	2.00	2.94	233	64.2	36.3	13.3	7.44
MAX	20	8.8	4.0	3.5	3.0	2.0	15	630	122	90	19	9.0
MIN	8.7	5.0	4.0	3.5	3.0	2.0	1.3	23	27	18	7.3	6.3
CFSM	.25	.11	.07	.06	.05	.04	.05	4.18	1.15	.65	.24	.13
IN.	.29	.13	.08	.07	.06	.04	.06	4.82	1.28	.75	.27	.15

CAL YR 1973 TOTAL 30,955.3 MEAN 84.8 MAX 899 MIN 4.0 CFSM 1.52 IN 20.64
WTR YR 1974 TOTAL 11,996.6 MEAN 32.9 MAX 630 MIN 1.3 CFSM .59 IN 8.00

PEAK DISCHARGE (BASE, 600 CFS).--May 9 (1900) 1,050 cfs (6.55 ft).

NOTE.--No gage-height record Nov. 27 to Apr. 17.

GREEN RIVER BASIN

09266500 Ashley Creek near Vernal, Utah

LOCATION.—Lat 40°34'39", long 109°37'17", in NE¼NW¼NE¼ sec.12, T.3 S., R.20 E., Uintah County, on right bank 0.8 mile (1.3 km) upstream from head of Utah Power & Light Co.'s canal, 4.5 miles (7.2 km) upstream from Dry Fork, and 10 miles (16 km) northwest of Vernal.

DRAINAGE AREA.—101 mi² (262 km²).

PERIOD OF RECORD.—October 1911 to April 1912, August to December 1912, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.—Water-stage recorder. Datum of gage is 6,230.61 ft (1,899.090 m) above mean sea level, adjustment of 1927. Prior to Nov. 13, 1917, nonrecording and water-stage recorder at several sites within 1.5 miles (2.4 km) of present site at various datums. Nov. 14, 1917 to July 15, 1965, water-stage recorder at site 75 ft (23 m) downstream at various datums. July 15, 1965 to July 30, 1968, water-stage recorder at site 75 ft (23 m) downstream at datum 0.09 ft (0.027 m) higher.

AVERAGE DISCHARGE.—61 years (1913–74), 101 ft³/s (2.860 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 1,440 ft³/s (40.8 m³/s) May 9 (gage height, 3.62 ft or 1.103 m), from rating curve extended above 950 ft³/s (26.9 m³/s); minimum, 14 ft³/s (0.40 m³/s) Sept. 26, 28–30.

Period of record: Maximum discharge, about 3,500 ft³/s (99.1 m³/s) June 11, 1965, from rating table extended above 1,060 ft³/s (30.1 m³/s); maximum gage height, 6.09 ft (1.856 m) June 16, 1929; present datum, minimum discharge recorded, 7.8 ft³/s (0.22 m³/s) Apr. 1, 2, 1971.

REMARKS.—Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (7.71 hm³) on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft³/s (0.31 m³/s) diverts water from tributary spring about 1,000 ft (305 m) above station (diversion began Aug. 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 miles (4.0 km) below station. Prior to September 1961, pipeline capacity was approximately 5 ft³/s (0.14 m³/s) and the return flow entered Ashley Creek 0.5 mile (0.8 km) below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	36	24	22	19	17	17	33	148	78	67	18
2	68	33	24	23	19	18	17	68	137	79	65	18
3	67	29	25	22	19	17	17	93	131	79	65	17
4	67	30	24	22	18	17	16	124	128	77	64	18
5	67	32	23	22	19	17	16	194	123	74	62	18
6	65	37	24	22	18	17	17	279	125	79	55	17
7	64	40	25	22	18	17	16	427	115	103	50	17
8	63	39	25	22	18	17	16	666	114	101	51	17
9	68	38	24	21	18	17	17	859	132	98	54	16
10	69	37	24	21	18	17	17	805	144	95	55	16
11	70	35	24	21	18	16	17	564	114	92	53	16
12	68	33	24	21	18	16	16	528	101	91	53	16
13	68	31	23	20	18	16	16	493	96	86	52	16
14	71	27	23	20	18	16	16	380	91	81	53	16
15	71	23	23	20	18	17	16	373	89	74	52	17
16	68	24	23	20	18	16	17	391	86	73	50	16
17	66	26	22	20	18	17	18	363	84	89	54	16
18	63	25	23	20	18	19	19	330	81	114	53	15
19	62	25	22	20	18	17	21	312	77	132	55	15
20	61	25	21	20	18	17	20	247	74	98	55	15
21	60	25	21	20	18	16	19	218	70	84	57	15
22	58	24	21	19	18	16	18	196	76	75	58	15
23	55	23	21	19	18	17	19	186	81	74	58	15
24	43	26	21	19	17	16	22	180	81	76	55	14
25	40	27	21	19	17	16	26	175	79	75	52	15
26	39	26	21	19	17	17	31	186	77	73	36	14
27	36	25	20	19	17	17	37	209	85	73	20	14
28	37	25	20	19	17	17	39	203	83	72	19	14
29	38	25	21	19	-----	17	33	190	79	40	19	14
30	34	24	22	19	-----	17	32	176	77	66	19	14
31	34	-----	22	19	-----	17	-----	160	-----	68	19	-----
TOTAL	1,810	875	701	631	503	521	618	9,608	2,978	2,569	1,530	474
MEAN	58.4	29.2	22.6	20.4	18.0	16.8	20.6	310	99.3	82.9	49.4	15.8
MAX	71	40	25	23	19	19	39	859	148	132	67	18
MIN	34	23	20	19	17	16	16	33	70	40	19	14
AC-FT	3,590	1,740	1,390	1,250	998	1,030	1,230	19,060	5,910	5,100	3,030	940

CAL YR 1973 TOTAL 50,438 MEAN 138 MAX 1,400 MIN 16 AC-FT 100,000
WTR YR 1974 TOTAL 22,818 MEAN 62.5 MAX 859 MIN 14 AC-FT 45,260

PEAK DISCHARGE (BASE, 600 CFS).—May 9 (2000) 1,440 cfs (3.62 ft).

GREEN RIVER BASIN

41

09267500 Mosby Canal near Lapoint, Utah

LOCATION.--Lat 40°36'30", long 109°53'00", in sec.27, T.2 S., R.18 E., (unsurveyed), Uintah County, on left bank 4.5 miles (7.2 km) southeast of Paradise Park Reservoir, 8 miles (13 km) downstream from diversion from Dry Fork, and 16 miles (26 km) northwest of Lapoint.

PERIOD OF RECORD.--July 1954 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,500 ft (2,895 m) from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 37 ft³/s (1.05 m³/s) June 16, 17, 1969; no flow for extended periods each year.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Canal diverts from Dry Fork for irrigation in Deep Creek basin. Diversion began in 1942 or 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	6.2	1.7	.50			0	.06	21	11	10	4.3
2	9.3	6.6	1.7	.50			0	.11	20	10	11	4.1
3	9.3	7.4	1.7	.50			0	.20	20	9.9	11	4.3
4	9.1	4.5	1.7	.50			0	.40	19	9.1	11	4.3
5	9.1	2.8	1.7	.50			0	.70	19	8.8	9.3	4.2
6	8.9	1.7	1.6	.50			0	1.5	18	8.4	8.6	4.0
7	8.4	1.1	1.6	.50			0	3.4	15	8.5	8.1	3.9
8	8.5	1.3	1.6	.50			0	8.2	16	8.0	7.6	3.9
9	6.3	1.1	1.6	.50			0	14	19	8.0	8.5	3.9
10	7.4	1.4	1.6	.50			0	13	17	7.5	8.6	3.8
11	8.3	1.8	1.6	.10			0	11	14	6.8	7.7	3.8
12	9.1	2.4	1.6	.10			0	9.6	13	6.7	6.9	3.9
13	11	2.3	1.6	.10			0	8.2	13	6.7	6.8	3.7
14	11	2.2	1.6	.10			0	7.2	13	6.6	6.2	3.8
15	11	2.1	1.6	.10			0	15	13	6.5	5.8	4.4
16	9.6	2.0	1.6	.10			0	16	13	8.0	1.2	4.2
17	8.4	1.9	1.6	.10			0	22	13	10	3.7	4.0
18	8.0	1.9	1.4	.10			0	20	13	13	.27	3.8
19	7.7	1.9	1.3	.10			0	20	12	12	.35	3.8
20	7.4	1.8	1.1	.10			0	16	12	10	.29	3.6
21	7.0	1.8	1.0	.10			0	17	12	10	.03	3.6
22	6.7	1.8	1.0	.10			0	20	12	8.4	0	3.6
23	6.4	1.8	1.0	.10			0	20	12	8.8	1.6	3.4
24	6.1	1.8	1.0	.10			0	20	12	10	2.3	3.5
25	6.0	1.8	1.0	.10			0	21	11	11	2.3	3.4
26	6.0	1.7	1.0	.10			0	22	11	14	2.1	3.4
27	6.0	1.7	1.0	.10			0	23	11	11	1.9	3.3
28	5.8	1.7	1.0	.10			0	22	11	11	1.8	3.5
29	5.6	1.7	1.0	.10	-----		0	22	11	11	1.8	3.5
30	6.0	1.7	1.0	.10	-----		.03	22	11	9.9	1.8	3.4
31	5.8	-----	1.0	.10	-----		-----	22	-----	11	3.8	-----
TOTAL	244.8	71.9	42.5	7.10	0	0	.03	417.57	427	291.6	152.34	114.3
MEAN	7.90	2.40	1.37	.23	0	0	.001	13.5	14.2	9.41	4.91	3.81
MAX	11	7.4	1.7	.50	0	0	.03	23	21	14	11	4.4
MIN	5.6	1.1	1.0	.10	0	0	0	.06	11	6.5	0	3.3
AC=FT	486	143	84	14	0	0	.06	828	847	578	302	227

CAL YR 1973 TOTAL 2,619.00 MEAN 7.18 MAX 31 MIN 0 AC=FT 5,190
WTR YR 1974 TOTAL 1,769.14 MEAN 4.85 MAX 23 MIN 0 AC=FT 3,510

NOTE.--No gage-height record Nov. 25 to May 6.

09268000 Dry Fork above sinks, near Dry Fork, Utah

LOCATION.--Lat 40°37'35", long 109°49'10", in sec.20, T.2 S., R.19 E., (unsurveyed), Uintah County, Ashley National Forest, on left bank 9 miles (14 km) northwest of town of Dry Fork.

DRAINAGE AREA.--44.4 mi² (115.0 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 8,108.51 ft (2,471.474 m) above mean sea level (levels by Utah State Water and Power Board).

AVERAGE DISCHARGE.--35 years, 35.7 ft³/s (1.011 m³/s), 25,860 acre-ft/yr (31.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 295 ft³/s (8.35 m³/s) May 10 (gage height, 3.56 ft or 1.085 m); minimum not determined, occurred during winter period.

Period of record: Maximum discharge, 1,010 ft³/s (28.6 m³/s) June 10, 1965 (gage height, 4.78 ft or 1.457 m), from rating curve extended above 490 ft³/s (13.9 m³/s); no flow for part of each day Apr. 22, May 1-3, 1951.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Mosby Canal has diverted water above station for irrigation in Deep Creek basin since 1942 or 1943 (see sta 09267500).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	4.6	4.0	3.6	3.5	3.5	3.5	11	25	8.8	6.6	2.9
2	9.0	3.9	4.0	3.5	3.5	3.5	3.5	16	23	8.4	5.8	2.7
3	8.8	5.0	4.0	3.5	3.5	3.5	3.5	19	21	8.4	6.3	2.6
4	8.7	6.0	4.0	3.5	3.5	3.5	3.5	26	20	7.7	6.9	2.4
5	8.6	7.5	4.0	3.5	3.5	3.5	3.5	40	20	7.4	5.8	2.4
6	8.3	8.3	4.0	3.5	3.5	3.5	3.5	72	20	7.4	5.0	2.3
7	8.1	8.6	4.0	3.5	3.5	3.5	3.5	105	19	7.1	4.6	2.2
8	7.9	8.4	4.0	3.5	3.5	3.5	3.5	155	20	6.9	4.4	2.1
9	11	7.5	4.0	3.5	3.5	3.5	3.5	185	22	6.6	4.8	2.1
10	12	5.7	4.0	3.5	3.5	3.5	3.5	217	19	6.3	4.8	2.1
11	9.9	5.0	4.0	3.5	3.5	3.5	3.5	155	16	6.1	4.4	2.2
12	9.4	4.6	4.0	3.5	3.5	3.5	3.5	141	15	6.0	4.2	2.4
13	9.4	4.1	4.0	3.5	3.5	3.5	3.5	137	15	5.7	4.0	2.4
14	11	3.9	4.0	3.5	3.5	3.5	3.5	110	14	5.6	3.6	2.7
15	12	4.0	4.0	3.5	3.5	3.5	3.5	97	14	5.7	3.3	2.7
16	10	4.0	4.0	3.5	3.5	3.5	3.9	101	14	6.3	5.5	2.6
17	8.9	4.0	4.0	3.5	3.5	3.5	3.2	84	14	6.6	5.3	2.4
18	8.2	4.0	4.0	3.5	3.5	3.5	3.9	64	14	7.7	7.1	2.3
19	7.6	4.0	4.0	3.5	3.5	3.5	3.8	59	13	7.0	8.1	2.1
20	7.3	4.0	4.0	3.5	3.5	3.5	3.3	42	13	7.0	8.1	2.1
21	7.0	4.0	4.0	3.5	3.5	3.5	2.8	33	12	6.8	9.5	2.1
22	6.8	4.0	4.0	3.5	3.5	3.5	3.5	24	12	6.4	9.5	2.1
23	6.6	4.0	4.0	3.5	3.5	3.5	4.4	22	12	6.8	5.8	2.1
24	6.5	4.0	4.0	3.5	3.5	3.5	5.8	21	11	5.2	5.0	2.1
25	6.5	4.0	4.0	3.5	3.5	3.5	8.4	20	11	6.2	5.3	2.1
26	6.3	4.0	4.0	3.5	3.5	3.5	8.1	21	10	8.7	5.3	1.9
27	5.9	4.0	4.0	3.5	3.5	3.5	7.1	37	9.7	6.7	5.3	1.9
28	6.3	4.0	4.0	3.5	3.5	3.5	6.6	36	9.4	7.4	5.0	2.0
29	6.2	4.0	4.0	3.5	-----	3.5	6.6	33	9.1	7.7	5.0	2.1
30	5.4	4.0	4.0	3.5	-----	3.5	6.6	32	8.8	6.1	4.8	2.0
31	4.7	-----	4.0	3.5	-----	3.5	-----	29	-----	7.1	3.8	-----
TOTAL	253.7	147.1	124.0	108.6	98.0	108.5	130.5	2,143	456.0	213.8	172.9	68.1
MEAN	8.18	4.90	4.00	3.50	3.50	3.50	4.35	69.1	15.2	6.90	5.58	2.27
MAX	12	8.6	4.0	3.6	3.5	3.5	8.4	217	25	8.8	9.5	2.9
MIN	4.7	3.9	4.0	3.5	3.5	3.5	2.8	11	8.8	5.2	3.3	1.9
AC-FT	503	292	246	215	194	215	259	4,250	904	424	343	135

CAL YR 1973 TOTAL 17,284.0 MEAN 47.4 MAX 536 MIN 3.9 AC-FT 34,280
WTR YR 1974 TOTAL 4,024.2 MEAN 11.0 MAX 217 MIN 1.9 AC-FT 7,980

PEAK DISCHARGE (BASE, 300 CFS). No peak above base

NOTE.--No gage-height record Nov. 24 to Apr. 16.

09268500 North Fork of Dry Fork near Dry Fork, Utah

LOCATION.--Lat 40°38'34", long 109°48'37", in sec.17, T.2 S., R.19 E., Uintah County, Ashley National Forest, on left bank 2 miles (3 km) upstream from mouth and 9.5 miles (15.3 km) northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 mi² (22.33 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 8,284.28 ft (2,525.048 m) above mean sea level (levels by Utah Water and Power Board).

AVERAGE DISCHARGE.--28 years, 6.72 ft³/s (0.190 m³/s), 4,870 acre-ft/yr (6.00 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 46 ft³/s (1.30 m³/s) May 9 (gage height, 2.71 ft or 0.826 m); minimum, not determined, occurred during winter period.

Period of record: Maximum discharge, 169 ft³/s (4.79 m³/s) June 5, 1968 (gage height, 3.34 ft or 1.018 m); maximum gage height, 3.60 ft (1.097 m) May 7, 1947; no flow for part of Apr. 21, 1961, May 1, 1963.

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

REVISIONS.--WSP 2125: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	2.2	.96	.80	.70	.59	.59	3.4	7.8	4.7	3.4	2.2
2	3.9	2.1	.96	.76	.70	.59	.59	5.5	7.7	4.5	3.7	2.2
3	3.7	2.2	.96	.70	.70	.59	.59	7.4	7.5	4.5	3.9	2.2
4	3.7	2.3	.96	.70	.70	.59	.59	8.8	7.5	4.4	3.5	2.1
5	3.7	2.4	.96	.70	.70	.59	.59	12	7.6	4.2	3.2	2.1
6	3.7	2.4	.96	.70	.67	.59	.59	15	7.7	4.1	3.3	2.1
7	3.5	2.3	.95	.70	.64	.59	.59	22	7.5	4.1	3.2	1.9
8	3.5	2.2	.93	.70	.61	.59	.59	25	7.6	4.0	3.2	1.9
9	3.7	2.1	.90	.70	.60	.59	.59	29	7.3	3.9	3.2	1.9
10	3.6	1.9	.90	.70	.59	.59	.59	26	6.8	4.0	3.2	1.9
11	3.4	1.7	.90	.70	.59	.59	.59	21	6.4	3.8	3.1	1.9
12	3.4	1.6	.90	.70	.59	.59	.59	20	6.2	3.7	2.9	1.9
13	3.5	1.5	.90	.70	.59	.59	.59	19	5.9	3.6	2.8	1.7
14	3.6	1.3	.90	.70	.59	.59	.59	17	5.7	3.5	2.8	1.7
15	3.5	1.2	.90	.70	.59	.59	.59	17	5.6	3.5	2.8	1.7
16	3.3	1.2	.90	.70	.59	.59	.59	17	5.4	3.5	2.7	1.7
17	3.1	1.2	.90	.70	.59	.59	.62	16	5.4	3.5	2.7	1.7
18	3.1	1.2	.90	.70	.59	.59	.64	15	5.4	3.5	2.7	1.7
19	3.0	1.2	.90	.70	.59	.59	.68	14	5.6	3.7	2.7	1.6
20	3.0	1.2	.90	.70	.59	.59	.72	13	5.4	3.5	2.7	1.6
21	3.0	1.2	.90	.70	.59	.59	.77	12	5.4	3.4	2.7	1.6
22	2.8	1.0	.90	.70	.59	.59	.86	11	5.4	3.2	2.6	1.6
23	2.8	.96	.90	.70	.59	.59	1.2	11	5.2	3.3	2.4	1.6
24	2.8	.96	.90	.70	.59	.59	1.7	10	5.2	3.3	2.4	1.6
25	2.8	.96	.90	.70	.59	.59	2.5	9.7	5.1	3.5	2.4	1.5
26	2.7	.96	.90	.70	.59	.59	2.4	9.0	5.0	3.6	2.3	1.4
27	2.6	.96	.88	.70	.59	.59	2.3	8.7	4.9	3.3	2.2	1.4
28	2.7	.96	.82	.70	.59	.59	2.1	8.3	4.7	3.8	2.2	1.5
29	2.4	.96	.80	.70	-----	.59	2.1	8.1	5.0	3.5	2.2	1.5
30	2.3	.96	.80	.70	-----	.59	2.4	8.1	4.9	3.3	2.2	1.5
31	2.3	-----	.80	.70	-----	.59	-----	8.0	-----	3.5	2.2	-----
TOTAL	99.0	45.28	27.94	21.86	17.23	18.29	30.43	427.0	182.8	115.9	87.5	52.9
MEAN	3.19	1.51	.90	.71	.62	.59	1.01	13.8	6.09	3.74	2.82	1.76
MAX	3.9	2.4	.96	.80	.70	.59	2.5	29	7.8	4.7	3.9	2.2
MIN	2.3	.96	.80	.70	.59	.59	.59	3.4	4.7	3.2	2.2	1.4
AC-FT	196	90	55	43	34	36	60	847	363	230	174	105
CAL YR 1973	TOTAL 3,997.59	MEAN 11.0	MAX 91	MIN .75	AC-FT 7,930							
WTR YR 1974	TOTAL 1,126.13	MEAN 3.09	MAX 29	MIN .59	AC-FT 2,230							

PEAK DISCHARGE (BASE, 50 CFS). No peak above base.

NOTE: No gage-height record Oct. 30 to Apr. 29.

GREEN RIVER BASIN

09268900 Brownie Canyon above sinks, near Dry Fork, Utah

LOCATION.--Lat 40°39'34", long 109°45'01", in SW¼NE¼ sec.11, T.2 S., R.19 E. (unsurveyed), Uintah County, Ashley National Forest, on right bank 4.5 miles (7.2 km) upstream from mouth and 8.5 miles (13.7 km) northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 mi² (21.34 km²).

PERIOD OF RECORD.--October 1960 to current year. Published as East Fork of Dry Fork above sinks, near Dry Fork prior to October 1967.

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft (2,530 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 121 ft³/s (3.43 m³/s) May 9 (gage height, 1.46 ft or 0.445 m); minimum not determined, occurred during winter period.

Period of record: Maximum discharge, 395 ft³/s (11.2 m³/s) June 10, 1965 (gage height, 2.12 ft or 0.646 m), from rating curve extended above 160 ft³/s (4.53 m³/s); no flow for part of Apr. 23, 1961.

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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	4.7	2.9	1.9	1.7	1.7	1.5	5.8	20	8.5	5.5	4.2
2	8.2	4.6	2.9	1.9	1.7	1.7	1.5	11	19	8.2	5.5	4.4
3	8.2	4.5	2.8	1.9	1.7	1.7	1.5	18	18	8.2	6.2	4.2
4	8.2	4.5	2.8	1.9	1.7	1.6	1.5	23	18	8.2	5.5	3.9
5	8.2	4.4	2.7	1.9	1.7	1.6	1.5	34	18	8.2	5.2	3.9
6	7.8	4.3	2.7	1.9	1.7	1.5	1.5	43	18	8.2	5.0	3.6
7	7.8	4.2	2.6	1.9	1.7	1.5	1.5	62	17	8.2	5.0	3.4
8	7.5	4.7	2.6	1.9	1.7	1.5	1.5	76	18	7.5	5.0	3.4
9	7.5	4.4	2.5	1.9	1.7	1.5	1.5	81	18	7.5	5.2	3.4
10	7.2	4.4	2.5	1.9	1.7	1.5	1.5	69	17	7.2	5.0	3.6
11	7.2	4.4	2.4	1.9	1.7	1.5	1.5	57	15	7.2	4.7	3.6
12	7.2	4.4	2.4	1.9	1.7	1.5	1.5	52	14	6.8	4.7	3.6
13	7.5	4.4	2.4	1.9	1.7	1.5	1.5	44	14	7.2	4.4	3.6
14	7.5	4.3	2.3	1.9	1.7	1.5	1.5	39	15	7.2	4.4	3.4
15	7.5	4.2	2.3	1.9	1.7	1.5	1.7	38	13	6.8	4.4	3.4
16	7.2	4.1	2.2	1.9	1.7	1.5	1.7	38	12	6.8	4.2	3.4
17	6.8	4.0	2.2	1.9	1.7	1.5	1.7	34	12	7.8	4.4	3.4
18	6.5	3.9	2.2	1.9	1.7	1.5	1.7	30	11	9.9	4.2	3.4
19	6.5	3.6	2.1	1.9	1.7	1.5	1.7	28	11	8.9	4.2	3.1
20	6.5	3.5	2.1	1.9	1.7	1.5	1.5	26	11	7.2	4.2	2.9
21	6.2	3.5	2.0	1.9	1.7	1.5	1.5	26	11	6.5	4.2	2.9
22	6.2	3.4	2.0	1.9	1.7	1.5	1.7	23	11	6.2	4.2	2.9
23	5.5	3.4	2.0	1.9	1.7	1.5	1.7	22	10	5.8	4.2	2.7
24	5.5	3.3	1.9	1.9	1.7	1.5	1.8	21	10	6.5	4.2	2.7
25	5.5	3.2	1.9	1.9	1.7	1.5	2.3	20	9.9	6.8	4.2	2.7
26	5.2	3.2	1.9	1.8	1.7	1.5	2.8	21	9.4	6.5	4.2	2.7
27	5.2	3.1	1.9	1.8	1.7	1.5	3.1	21	9.4	6.2	4.2	2.7
28	5.2	3.1	1.9	1.8	1.7	1.5	4.0	21	8.9	5.8	4.2	2.7
29	4.7	3.0	1.9	1.8	-----	1.5	3.4	20	8.5	5.5	4.4	2.7
30	5.8	3.0	1.9	1.7	-----	1.5	3.4	20	8.5	5.5	4.2	2.7
31	5.0	-----	1.9	1.7	-----	1.5	-----	20	-----	5.5	4.2	-----
TOTAL	209.2	117.7	70.8	58.1	47.6	47.3	56.7	1,043.8	405.6	222.5	143.3	99.2
MEAN	6.75	3.92	2.28	1.87	1.70	1.53	1.89	33.7	13.5	7.18	4.62	3.31
MAX	8.2	4.7	2.9	1.9	1.7	1.7	4.0	81	20	9.9	6.2	4.4
MIN	4.7	3.0	1.9	1.7	1.7	1.5	1.5	5.8	8.5	5.5	4.2	2.7
AC-FT	415	233	140	115	94	94	112	2,070	805	441	284	197

CAL YR 1973 TOTAL 8,316.6 MEAN 22.8 MAX 210 MIN 1.9 AC-FT 16,500
WTR YR 1974 TOTAL 2,521.8 MEAN 6.91 MAX 81 MIN 1.5 AC-FT 5,000

PEAK DISCHARGE (BASE, 100 CFS).--May 9 (1800) 121 cfs (1.46 ft).

NOTE.--No gage-height record Nov. 24 to Apr. 9.

GREEN RIVER BASIN

45

09270500 Dry Fork at mouth, near Dry Fork, Utah

LOCATION.--Lat 40°31'35", long 109°36'18", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.3 S., R.21 E., Uintah County, on left bank 900 ft (274 m) upstream from mouth and 4 miles (6 km) southeast of town of Dry Fork.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--July 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,842.9 ft (1,780.92 m) above mean sea level, adjustment of 1927.

AVERAGE DISCHARGE.--20 years, 26.1 ft³/s (0.739 m³/s), 18,910 acre-ft/yr (23.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 246 ft³/s (21.9 m³/s) May 10, 11 (gage height, 3.55 ft or 1.082 m); no flow several days in September.

Period of record: Maximum discharge, 1,210 ft³/s (34.3 m³/s) Aug. 25, 1955, from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of comparison with Ashley Creek at Sign of the Main; maximum gage height, 6.00 ft (1.829 m) June 12, 1965; no flow for several periods in 1956-61, 1963, 1966, 1974.

REMARKS.--Records good except those for winter period, which are poor. Several diversions above station for irrigation, including Mosby Canal (see sta 09267500) which began diverting water for irrigation in Deep Creek basin during 1942 or 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.7	4.0	3.9	3.7	3.7	2.3	.98	1.3	.17	.17	.02
2	3.3	4.0	3.7	3.9	3.7	3.7	3.0	.87	1.0	.17	.17	.02
3	3.5	5.2	3.6	3.9	3.7	3.7	2.6	.82	1.0	.18	.17	.03
4	3.2	5.1	3.7	3.9	3.7	3.7	2.1	.82	.92	.15	.15	.03
5	3.1	5.0	3.9	3.9	3.7	3.7	2.0	.82	.94	.13	.12	.03
6	3.5	5.1	3.9	3.9	3.7	3.7	1.9	.86	1.1	.12	.11	.03
7	3.2	5.2	3.9	3.9	3.7	3.7	1.8	.82	1.1	.10	.10	.02
8	3.2	6.3	3.9	3.9	3.7	3.7	1.7	.29	1.1	.08	.12	.02
9	6.8	6.0	3.9	3.9	3.7	3.7	1.7	145	1.1	.08	.29	.01
10	4.4	5.0	3.9	3.9	3.7	3.7	2.0	225	.92	.06	.32	.01
11	4.0	4.5	3.9	3.9	3.7	3.7	2.2	181	.80	.05	.29	0
12	4.2	4.3	3.9	3.9	3.7	3.7	2.1	152	.43	.05	.23	.02
13	3.7	4.1	3.9	3.9	3.7	3.7	2.1	134	.29	.04	.24	.02
14	3.5	3.9	3.9	3.9	3.7	3.7	2.0	91	.26	.04	.18	.02
15	3.6	4.0	3.9	3.9	3.7	3.9	1.8	63	.21	.06	.16	.02
16	3.7	4.1	3.9	3.9	3.7	3.8	1.7	57	.19	.10	.11	.02
17	3.5	4.1	3.9	3.9	3.7	3.7	1.5	47	.21	.11	.09	.02
18	3.4	4.2	3.9	3.9	3.7	3.3	1.3	39	.23	.11	.06	.01
19	3.4	4.3	3.9	3.9	3.7	2.8	1.4	33	.18	.11	.03	0
20	3.4	4.0	3.9	3.9	3.7	2.5	2.4	24	.17	.12	.02	0
21	3.5	4.1	3.9	3.9	3.7	2.4	2.8	19	.16	.16	.02	0
22	3.4	3.9	3.9	3.9	3.7	2.3	2.1	8.7	.14	.14	.02	.01
23	3.5	3.9	3.9	3.9	3.7	2.2	1.5	6.8	.12	.12	.02	0
24	3.6	4.0	3.9	3.9	3.7	2.2	1.5	3.3	.11	.16	.02	0
25	3.8	4.0	3.9	3.9	3.7	2.3	1.4	3.3	.12	.16	.01	0
26	3.7	4.1	3.9	3.9	3.7	2.2	1.3	2.9	.15	.15	.02	0
27	3.7	4.2	3.9	3.9	3.7	2.4	1.3	2.3	.17	.14	.01	0
28	3.7	4.6	3.9	3.9	3.7	2.3	1.2	2.2	.18	.14	.01	0
29	3.9	4.6	3.9	3.9	-----	2.0	1.2	1.9	.20	.13	.02	0
30	4.0	4.1	3.9	3.9	-----	2.0	1.1	1.6	.19	.12	.02	0
31	3.9	-----	3.9	3.9	-----	2.2	-----	1.4	-----	.15	.02	-----
TOTAL	115.0	133.6	120.3	120.9	103.6	96.3	55.0	1,279.39	14.99	3.60	3.32	.36
MEAN	3.71	4.45	3.88	3.90	3.70	3.11	1.83	41.3	.50	.12	.11	.012
MAX	6.8	6.3	4.0	3.9	3.7	3.9	3.0	225	1.3	.18	.32	.03
MIN	3.1	3.7	3.6	3.9	3.7	2.0	1.1	.82	.11	.04	.01	0
CFSM	.03	.04	.03	.03	.03	.03	.02	.36	.004	.001	.0009	.0001
IN.	.04	.04	.04	.04	.03	.03	.02	.41	.004	.001	.001	0
CAL YR 1973	TOTAL 20,015.60	MEAN 54.8	MAX 655	MIN 1.5	CFSM .47	IN 6.42						
WTR YR 1974	TOTAL 2,046.36	MEAN 5.61	MAX 225	MIN 0	CFSM .05	IN .66						

PEAK DISCHARGE (BASE, 250 CFS). No peak above base

NOTE.--No gage-height record Jan. 3 to Mar. 13.

GREEN RIVER BASIN

09271500 Ashley Creek near Jensen, Utah

LOCATION.--Lat 40°22'29", long 109°24'27", in NE¼NW¼NE¼ sec.23, T.5 S., R.22 E., Uintah County, on right bank just downstream from bridge on U.S. Highway 40, 3 miles (5 km) upstream from mouth and 3 miles (5 km) west of Jensen.

DRAINAGE AREA.--383 mi² (992 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 4,795.36 ft (1,461.626 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 270 ft³/s (7.65 m³/s) May 10 (gage height, 2.72 ft or 0.829 m); minimum discharge, 0.63 ft³/s (0.018 m³/s) Sept. 6.

Period of record: Maximum discharge, 2,790 ft³/s (79.0 m³/s) June 6, 1968 (gage height, 7.04 ft or 2.146 m); maximum gage height, 7.16 ft (2.182 m) June 11, 1965; no flow part of Aug. 9, 1956, and several days in August and September 1960.

REMARKS.--Records good except those for winter period, which are poor. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (7.71 hm³) on Big Brush Creek and diverted to Ashley Creek basin for irrigation. Large diversions above station for irrigation and municipal water supply mostly above station, including diversion to Steinaker Reservoir, constructed by the Bureau of Reclamation in 1961, capacity, 38,090 acre-ft (47.0 hm³). Records of Steinaker Reservoir diversion are in the Bureau of Reclamation office at Provo, Utah. Union Canal is only diversion between gage and mouth of creek.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	48	44	40	50	60	37	14	14	2.8	3.0	1.2
2	42	47	46	39	50	70	36	12	13	2.9	3.1	1.1
3	40	51	48	37	50	71	37	13	12	2.8	2.8	.87
4	41	57	49	37	50	72	33	12	16	2.8	2.4	1.1
5	41	60	48	37	50	74	30	11	14	3.1	2.3	.83
6	43	58	58	36	47	75	29	13	21	2.6	2.0	.74
7	41	58	63	36	47	74	28	15	25	2.4	2.2	.82
8	41	62	68	36	47	73	29	28	43	3.3	2.0	1.0
9	73	70	67	36	47	72	28	67	41	3.5	2.5	1.1
10	84	61	65	36	47	70	28	176	41	3.2	2.8	1.2
11	72	56	57	40	43	66	28	59	29	2.3	2.8	1.1
12	70	54	51	42	43	60	36	33	21	2.3	3.0	1.6
13	70	53	47	45	43	55	41	26	20	2.4	2.4	2.8
14	71	51	43	45	43	47	36	25	16	2.5	2.1	3.0
15	67	48	45	45	43	44	32	27	16	2.5	1.8	3.1
16	66	48	44	45	45	42	32	20	18	3.4	1.8	2.9
17	66	47	43	45	45	40	31	23	19	3.7	1.7	2.2
18	66	48	42	45	45	38	31	28	16	2.7	1.9	2.6
19	65	55	43	45	45	37	24	26	14	2.5	1.6	2.0
20	62	52	44	45	45	34	29	24	15	2.4	1.9	1.9
21	60	50	44	45	47	32	36	32	14	3.9	2.9	1.8
22	59	48	44	45	47	32	36	26	15	3.6	1.9	2.2
23	61	50	43	45	47	32	32	25	12	4.2	2.1	2.6
24	60	49	42	45	47	31	28	25	10	5.1	1.9	2.8
25	57	49	45	45	47	30	27	20	8.9	4.4	2.1	2.4
26	56	48	47	45	48	29	24	16	5.9	3.4	1.5	1.9
27	53	46	47	45	48	29	23	14	5.6	3.1	1.5	2.2
28	52	46	46	45	48	29	24	17	4.6	3.2	1.5	3.0
29	51	46	43	45	-----	27	21	20	4.8	3.2	1.5	3.6
30	50	49	41	45	-----	27	13	17	4.3	3.8	1.4	3.7
31	50	-----	40	45	-----	34	-----	17	-----	3.5	1.4	-----
TOTAL	1,775	1,565	1,497	1,307	1,304	1,506	899	881	509.1	97.5	65.8	59.38
MEAN	57.3	52.2	48.3	42.2	46.6	48.6	30.0	28.4	17.0	3.15	2.12	1.98
MAX	84	70	68	45	50	75	41	176	43	5.1	3.1	3.7
MIN	40	46	40	36	43	27	13	11	4.3	2.3	1.4	.74
AC-FT	3,520	3,100	2,970	2,590	2,590	2,990	1,780	1,750	1,010	193	131	118

CAL YR 1973 TOTAL 52,279.00 MEAN 143 MAX 1,670 MIN 12 AC-FT 103,700
WTR YR 1974 TOTAL 11,465.76 MEAN 31.4 MAX 176 MIN .74 AC-FT 22,740

GREEN RIVER BASIN

47

09275500 West Fork Duchesne River near Hanna, Utah

LOCATION.--Lat 40°27'01", long 110°53'01", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.1 N., R.9 W., Uintah meridian, Duchesne County, on left bank 1,500 ft (457 m) upstream from Wolf Creek, and 7.5 miles (12.1 km) northwest of Hanna.

DRAINAGE AREA.--61 mi² (158 km²), approximately.

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,218 ft (2,200 m) from topographic map. Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums.

AVERAGE DISCHARGE.--30 years (1922-23, 1945-74), 48.9 ft³/s (1.38 m³/s), 35,430 acre-ft/yr (43.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 572 ft³/s (16.2 m³/s) May 28 (gage height, 3.35 ft or 1.02 m); minimum recorded, 3.0 ft³/s (0.085 m³/s) Feb. 9, result of freezeup, but may have been lower during periods of ice effect.

Period of record: Maximum discharge recorded, 758 ft³/s (21.5 m³/s) June 5, 1967; maximum gage height, (4.40 ft or 1.341 m) June 4, 1952; minimum discharge recorded, 3.0 ft³/s (0.085 m³/s) Feb. 9, 1974, result of freezeup, but may have been lower during periods of ice effect.

REMARKS.--Records good except those for winter periods, which are fair. One small diversion for irrigation of about 100 acres (405,000 m²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	21	19	18	16	18	59	288	53	30	18
2	25	22	22	18	16	16	20	71	267	52	32	18
3	24	22	21	18	17	15	18	74	248	51	30	18
4	24	18	20	19	17	16	19	88	228	47	27	17
5	24	23	20	20	17	17	19	108	230	45	26	17
6	24	25	20	19	17	17	19	135	219	44	25	17
7	23	24	20	19	17	16	18	168	181	43	26	17
8	23	24	20	19	17	16	18	220	164	42	25	17
9	24	23	20	19	17	16	20	269	147	42	24	16
10	24	23	20	19	15	17	19	306	142	40	23	17
11	24	23	21	20	14	18	19	267	143	39	22	17
12	24	23	20	21	17	18	19	275	141	38	22	18
13	24	23	20	20	16	19	20	266	140	37	21	19
14	24	21	20	19	15	21	20	221	137	36	20	19
15	24	16	19	19	16	24	19	232	133	37	22	20
16	24	21	20	19	15	26	21	256	126	45	21	20
17	24	22	19	19	16	29	22	259	120	43	20	18
18	23	22	19	20	16	29	25	269	113	37	21	17
19	23	20	18	19	16	24	26	282	107	47	20	17
20	23	20	18	17	16	22	25	221	101	43	20	17
21	23	20	18	18	16	21	23	188	93	40	20	18
22	22	20	19	18	16	21	23	175	86	35	20	17
23	22	20	19	18	16	20	28	178	81	36	20	18
24	22	20	18	18	16	20	33	198	76	35	20	17
25	22	20	19	18	16	21	40	263	71	32	19	18
26	22	20	19	18	16	21	52	317	68	30	19	17
27	21	20	19	18	16	21	50	394	63	31	19	17
28	22	22	19	18	16	21	44	430	60	32	19	17
29	22	22	19	17	-----	20	45	399	57	28	18	17
30	21	22	20	17	-----	21	48	350	55	28	18	17
31	23	-----	20	17	-----	20	-----	315	-----	28	18	-----
TOTAL	719	645	607	577	453	619	790	7,253	4,085	1,216	687	527
MEAN	23.2	21.5	19.6	18.6	16.2	20.0	26.3	234	136	39.2	22.2	17.6
MAX	25	25	22	21	18	29	52	430	288	53	32	20
MIN	21	16	18	17	14	15	18	59	55	28	18	16
AC-FT	1,430	1,280	1,200	1,140	899	1,230	1,570	14,390	8,100	2,410	1,360	1,050
CAL YR 1973	TOTAL 19,624		MEAN 53.8		MAX 410		MIN 11		AC-FT 38,920			
WTR YR 1974	TOTAL 18,178		MEAN 49.8		MAX 430		MIN 14		AC-FT 36,060			

PEAK DISCHARGE (BASE, 300 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2400	2.96	373	5-28	2300	3.35	572
5-18	2300	2.87	345				

GREEN RIVER BASIN

09276000 Wolf Creek above Rhoades Canyon, near Hanna, Utah

LOCATION.—Lat 40°28'16", long 110°55'05", in NE¼SW¼NW¼ sec.21, T.1 N., R.9 W., Uintah meridian, Wasatch County, Wasatch National Forest, on left bank 1.5 miles (2.4 km) upstream from Rhoades Canyon, 2.8 miles (4.5 km) upstream from mouth, and 9 miles (14 km) northwest of Hanna.

DRAINAGE AREA.—9 mi² (23 km²), approximately.

PERIOD OF RECORD.—October 1945 to current year.

GAGE.—Water-stage recorder and masonry control. Altitude of gage is 7,740 ft (2,359 m) from topographic map.

AVERAGE DISCHARGE.—29 years, 7.63 ft³/s (0.216 m³/s) 5,530 acre-ft/yr (6.82 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 41 ft³/s (1.16 m³/s) May 29 (gage height, 2.31 ft or 0.704 m); minimum, 2.6 ft³/s (0.074 m³/s) on many days in March and April.

Period of record: Maximum discharge, 82 ft³/s (2.32 m³/s) June 8, 1952 (gage height, 2.64 ft or 0.805 m); minimum, 0.2 ft³/s (0.01 m³/s) sometime during Jan. 2-31, 1962, probably result of temporary obstruction upstream.

REMARKS.—Records good. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	4.8	4.0	3.5	3.3	2.9	2.9	3.7	29	14	9.4	6.6
2	5.8	4.8	4.0	3.3	3.3	2.9	2.9	4.2	27	14	9.7	6.7
3	5.8	4.7	4.0	3.3	3.3	2.9	2.9	4.5	26	13	8.9	6.7
4	5.8	4.5	4.0	3.3	3.2	2.9	2.9	4.7	25	13	8.6	6.6
5	5.8	4.5	3.7	3.3	3.2	2.9	2.8	5.0	27	12	8.5	6.6
6	5.6	4.5	3.8	3.3	3.1	2.9	2.9	5.5	26	12	8.4	6.5
7	5.5	4.5	3.8	3.3	3.1	2.9	2.9	9.5	25	12	8.3	6.5
8	5.7	4.5	3.8	3.3	3.1	2.9	2.8	19	23	12	8.2	6.5
9	5.8	4.5	3.8	3.3	3.1	2.9	2.9	25	22	11	8.3	6.4
10	5.8	4.5	3.8	3.3	3.1	2.9	3.1	27	22	11	8.3	6.3
11	5.7	4.5	3.8	3.3	3.1	2.9	3.1	24	21	11	8.1	6.4
12	5.6	4.5	3.8	3.3	3.1	2.8	3.1	24	21	10	8.0	6.5
13	5.5	4.5	3.8	3.3	2.9	2.8	3.1	24	21	10	7.9	6.5
14	5.5	4.5	3.7	3.3	2.9	2.8	3.1	21	21	9.7	7.8	6.5
15	5.5	4.4	3.5	3.3	2.9	2.9	3.1	22	21	11	7.8	6.3
16	5.5	4.3	3.5	3.3	2.9	2.9	3.1	23	21	10	7.8	6.2
17	5.5	4.3	3.6	3.3	2.9	2.9	3.1	23	21	9.7	7.5	6.1
18	5.2	4.4	3.5	3.3	2.9	2.9	3.2	25	20	10	7.4	6.1
19	5.1	4.3	3.5	3.3	2.9	2.9	3.1	25	20	11	7.4	6.0
20	5.1	4.3	3.4	3.3	2.9	2.7	3.2	20	20	9.8	7.4	6.0
21	5.1	4.3	3.5	3.3	2.9	2.7	3.1	18	19	9.7	7.1	6.0
22	5.1	4.1	3.5	3.2	2.9	2.7	3.1	17	19	9.7	7.0	5.8
23	5.1	4.3	3.5	3.3	2.9	2.7	3.3	18	18	9.6	6.9	5.8
24	5.1	4.3	3.5	3.3	2.9	2.7	3.5	19	18	9.5	6.8	5.8
25	5.0	4.3	3.5	3.3	2.9	2.7	3.6	23	16	9.5	6.7	5.6
26	4.8	4.3	3.5	3.3	2.9	2.7	3.8	26	16	9.3	6.7	5.6
27	4.8	4.1	3.5	3.3	2.9	2.9	3.7	31	16	9.7	6.7	5.6
28	4.8	4.0	3.5	3.3	2.9	3.0	3.6	34	15	10	6.7	5.5
29	4.8	4.0	3.5	3.3	-----	3.0	3.5	32	15	9.4	6.6	5.5
30	4.8	4.0	3.4	3.2	-----	3.0	3.5	31	14	9.2	6.6	5.5
31	4.8	-----	3.5	3.3	-----	3.0	-----	31	-----	9.3	6.6	-----
TOTAL	165.8	131.5	113.2	102.3	84.4	88.6	94.9	619.1	625	331.1	238.1	184.7
MEAN	5.35	4.38	3.65	3.30	3.01	2.86	3.16	20.0	20.8	10.7	7.68	6.16
MAX	5.8	4.8	4.0	3.5	3.3	3.0	3.8	34	29	14	9.7	6.7
MIN	4.8	4.0	3.4	3.2	2.9	2.7	2.8	3.7	14	9.2	6.6	5.5
AC-FT	329	261	225	203	167	176	188	1,230	1,240	657	472	366

CAL YR 1973 TOTAL 2,860.8 MEAN 7.84 MAX 38 MIN 3.4 AC-FT 5,670
 WTR YR 1974 TOTAL 2,778.7 MEAN 7.61 MAX 34 MIN 2.7 AC-FT 5,510

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-09	2000	2.18	28	5-29	2000	2.31	41
5-18	2100	2.18	28				

09277500 Duchesne River near Tabiona, Utah

LOCATION.—Lat 40°18'01", long 110°36'06", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.18, T.2 S., R.6 W., Uintah meridian, Duchesne County, on left bank on upstream site of bridge on State Highway 35, 6 miles (10 km) upstream from Rock Creek, and 7 miles (11 km) southeast of Tabiona.

DRAINAGE AREA.—352 mi² (912 km²).

PERIOD OF RECORD.—October 1918 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.—Water-stage recorder. Altitude of gage is 6,190 ft (1,887 m) from topographic map. Prior to Oct. 15, 1934, nonrecording gage, and Oct. 16, 1934 to Nov. 6, 1953, water-stage recorder, at site 0.5 mile (0.8 km) upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mile (2 km) upstream at different datum.

AVERAGE DISCHARGE.—56 years, 201 ft³/s (5.692 m³/s), 145,600 acre-ft/yr (180 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 2,120 ft³/s (60.0 m³/s) May 29 (gage height, 3.97 ft or 1.210 m); minimum, 60 ft³/s (1.70 m³/s) Aug. 26.

Period of record: Maximum discharge, 5,260 ft³/s (149 m³/s) June 16, 1963 (gage height, 7.97 ft or 2.429 m, from floodmarks), caused by failure of Little Deer Creek Dam 20 miles (32 km) upstream, from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft³/s (0.76 m³/s) Oct. 17, 1934.

REMARKS.—Records good except those for periods of no gage-height record, which are poor. Several diversions above station for irrigation, including a transmountain diversion through Duchesne tunnel 20 miles (32 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	111	136	120	103	97	107	145	1,180	147	104	65
2	96	114	139	120	103	100	110	164	1,150	143	104	65
3	94	125	128	118	102	98	104	183	1,270	134	103	67
4	94	124	133	118	101	98	103	186	997	129	99	68
5	95	128	124	118	100	100	104	202	952	132	98	69
6	94	137	123	118	99	102	106	242	892	131	96	68
7	95	137	129	117	98	104	102	290	795	127	93	67
8	99	133	127	116	98	102	100	350	730	121	92	68
9	104	132	125	115	97	100	104	500	655	124	90	70
10	102	132	122	115	97	102	106	620	607	122	87	74
11	106	132	126	115	96	104	104	800	641	118	83	93
12	103	132	126	115	95	105	106	1,000	643	109	81	81
13	104	135	128	114	94	107	101	1,400	687	106	81	80
14	102	133	127	113	93	112	103	1,300	683	98	78	81
15	102	126	124	113	93	117	101	1,200	702	98	79	81
16	99	138	124	112	93	123	104	1,250	660	102	78	81
17	101	152	127	111	95	130	103	1,300	634	102	75	80
18	103	144	125	111	92	138	107	1,350	572	99	74	79
19	103	148	124	110	97	121	111	1,400	538	100	74	80
20	103	135	124	110	92	113	111	1,000	520	127	72	78
21	101	150	125	110	94	110	107	780	500	118	70	80
22	101	131	124	110	94	113	108	450	463	112	66	82
23	102	141	124	109	94	116	114	385	406	109	65	87
24	111	137	123	108	94	108	124	385	360	114	64	86
25	112	134	123	108	94	113	139	465	260	112	64	84
26	111	138	123	108	94	116	166	593	216	101	63	84
27	109	135	123	107	95	114	162	743	197	122	64	84
28	109	132	123	106	95	114	147	952	182	111	66	83
29	108	131	123	105	-----	111	143	1,460	162	106	65	85
30	109	136	123	105	-----	112	140	1,380	151	105	67	85
31	107	-----	122	104	-----	110	-----	1,270	-----	105	64	-----
TOTAL	3,174	4,013	3,897	3,479	2,692	3,410	3,447	23,665	18,405	3,584	2,459	2,335
MEAN	102	134	126	112	96.1	110	115	763	614	116	79.3	77.8
MAX	112	152	139	120	103	138	166	1,460	1,270	147	104	93
MIN	94	111	122	104	92	97	100	145	151	98	63	65
AC-FT	6,300	7,960	7,730	6,900	5,340	6,760	6,840	46,940	36,510	7,110	4,880	4,630

CAL YR 1973 TOTAL 72,742 MEAN 199 MAX 1,230 MIN 74 AC-FT 144,300
WTR YR 1974 TOTAL 74,560 MEAN 204 MAX 1,460 MIN 63 AC-FT 147,900

PEAK DISCHARGE (BASE, 900 CFS).—May 19 (time unknown) about 2,000 cfs; May 29 (0800) 2,120 cfs (3.97 ft).

NOTE.—No gage-height record Dec. 21 to Feb. 14.

GREEN RIVER BASIN

09277800 Rock Creek above South Fork, near Hanna, Utah

LOCATION.—Lat 40°33'27", long 110°41'50", in NE¼ sec.20, T.2 N., R.7 W., Uintah meridian, Duchesne County, Ashley National Forest, on right bank 600 ft (180 m) downstream from Upper Stillwater campground horse-trail bridge, 1 mile (2 km) upstream from South Fork, and 11 miles (18 km) north of Hanna.

DRAINAGE AREA.—98 mi² (254 km²), approximately.

PERIOD OF RECORD.—October 1965 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,920 ft (2,414 m) from river-profile map.

AVERAGE DISCHARGE.—9 years, 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 1,880 ft³/s (53.2 m³/s) May 28 (gage height, 4.54 ft or 1.384 m); minimum measured, 9.9 ft³/s (0.28 m³/s) Mar. 21, result of freezeup.

Period of record: Maximum discharge, 2,760 ft³/s (78.2 m³/s) June 17, 1971 (gage height, 4.95 ft or 1.509 m); minimum measured, 9.9 ft³/s (0.28 m³/s) Mar. 21, 1974, result of freezeup.

REMARKS.—Records good except those for winter periods and periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	36	35	31	27	24	23	63	989	194	79	39
2	50	36	34	31	27	24	24	75	995	188	81	39
3	48	36	34	31	27	24	25	74	918	168	82	39
4	46	36	34	31	27	26	24	77	847	152	74	38
5	46	37	34	31	27	25	24	102	781	142	70	37
6	45	41	34	31	27	25	23	147	591	134	68	36
7	44	40	34	31	27	24	23	210	496	128	67	36
8	44	39	34	31	26	24	23	295	433	124	64	36
9	46	38	33	31	26	25	24	395	409	119	64	35
10	46	38	33	31	26	25	23	441	453	112	62	34
11	45	37	32	31	26	25	25	451	579	108	59	34
12	44	35	32	30	26	26	24	462	690	102	57	35
13	44	37	32	30	25	26	25	455	760	99	56	36
14	47	35	31	30	25	27	24	428	776	96	54	35
15	46	35	31	30	25	28	25	433	696	103	52	35
16	43	35	31	30	25	28	25	460	663	110	51	34
17	41	35	31	30	25	29	25	467	622	110	50	33
18	40	36	31	30	25	29	28	481	578	120	49	33
19	39	37	31	30	24	28	28	469	551	138	48	32
20	38	37	31	29	24	28	28	401	530	157	47	32
21	38	37	32	29	24	26	28	332	475	116	47	31
22	36	36	32	29	25	27	31	304	429	122	46	31
23	36	36	31	29	24	25	39	318	393	130	45	30
24	37	36	32	29	23	25	47	388	364	112	44	30
25	38	36	31	29	23	27	57	544	340	108	44	30
26	36	36	31	29	23	26	64	818	313	96	44	30
27	36	36	31	28	23	26	53	1,200	278	93	43	30
28	37	37	31	28	23	25	48	1,490	249	95	42	30
29	36	38	31	28	-----	25	43	1,350	231	86	42	30
30	34	36	31	28	-----	24	46	1,080	212	81	41	30
31	38	-----	31	28	-----	24	-----	1,010	-----	80	40	-----
TOTAL	1,296	1,100	996	924	705	800	949	15,220	16,641	3,723	1,712	1,010
MEAN	41.8	36.7	32.1	29.8	25.2	25.8	31.6	491	555	120	55.2	33.7
MAX	52	41	35	31	27	29	64	1,490	995	194	82	39
MIN	34	35	31	28	23	24	23	63	212	80	40	30
AC-FT	2,570	2,180	1,980	1,830	1,400	1,590	1,880	30,190	33,010	7,380	3,400	2,000

CAL YR 1973 TOTAL 52,075 MEAN 143 MAX 1,260 MIN 20 AC-FT 103,300
WTR YR 1974 TOTAL 45,076 MEAN 123 MAX 1,490 MIN 23 AC-FT 89,410

PEAK DISCHARGE (BASE, 1,000 CFS).—May 28 (1600) 1,880 cfs (4.54 ft).

NOTE.—No gage-height record Jan. 9 to Mar. 20.

GREEN RIVER BASIN

51

09278000 South Fork Rock Creek near Hanna, Utah

LOCATION.—Lat 40°32'54", long 110°41'37", sec.21, T.2 N., R.7 W., Uintah meridian, Duchesne County, Ashley National Forest, on right bank 175 ft (53 m) upstream from road bridge, 1 mile (2 km) upstream from mouth, and 11 miles (18 km) northeast of Hanna.

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

PERIOD OF RECORD.—August 1953 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,860 ft (2,396 m) from river-profile map. Prior to July 23 at site 75 ft (23 m) downstream at different gage datum.

AVERAGE DISCHARGE.—21 years, 13.1 ft³/s (0.371 m³/s), 9,490 acre-ft/yr (11.7 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 58 ft³/s (1.64 m³/s) May 28 (gage height, 1.95 ft or 0.594 m); minimum recorded, 2.8 ft³/s (0.079 m³/s) Nov. 14, but may have been lower during periods of ice effect.

Period of record: Maximum discharge, 183 ft³/s (5.18 m³/s) June 12, 1965 (gage height, 2.49 ft or 0.759 m); maximum gage height, 2.91 ft (0.887 m) Nov. 20, 1959 (backwater from ice); minimum discharge not determined, occurred during winter period of no gage-height record.

REMARKS.—Records good except those for winter period and period of no gage-height record, which are poor. Pipeline, capacity approximately 1.5 ft³/s (0.042 m³/s) that provides water for small hydro-electric plant and irrigation for Dude Ranch lying below station, diverts water from creek a short distance above station at times in summer months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	5.1	3.9	3.5	3.1	3.4	5.0	10	49	26	9.1	3.9
2	7.5	5.2	3.9	3.5	3.1	3.5	5.0	14	49	26	8.8	3.9
3	7.5	5.2	3.8	3.5	3.1	3.6	5.0	14	51	25	8.5	3.9
4	7.5	5.1	3.8	3.5	3.1	3.7	5.0	15	49	23	8.2	3.9
5	7.4	5.2	3.7	3.5	3.1	3.7	5.0	18	51	22	8.0	3.9
6	6.8	5.4	3.7	3.5	3.1	3.7	5.0	23	49	22	8.0	3.9
7	6.8	5.2	3.7	3.5	3.1	3.7	5.0	28	48	22	7.7	3.9
8	6.9	5.1	3.7	3.5	3.1	3.7	5.0	37	47	21	7.4	3.9
9	7.1	5.0	3.7	3.5	3.1	3.8	5.0	45	43	19	7.4	3.7
10	7.1	4.7	3.7	3.5	3.1	3.9	5.0	47	42	18	7.1	3.7
11	7.0	4.6	3.7	3.5	3.1	4.2	5.0	43	43	16	6.8	3.7
12	6.9	4.7	3.8	3.4	3.0	4.5	5.0	42	44	15	6.8	3.9
13	6.5	4.8	3.9	3.4	3.0	4.8	5.0	39	45	13	6.6	3.9
14	6.5	4.3	3.9	3.4	3.0	5.0	5.0	36	44	13	6.3	3.7
15	6.4	4.3	3.9	3.4	3.0	5.1	5.0	37	45	13	6.0	3.7
16	6.3	4.2	3.9	3.4	3.0	5.2	5.2	38	45	14	6.0	3.7
17	6.1	4.2	3.9	3.3	3.0	5.2	5.6	38	45	13	5.7	3.4
18	6.1	4.2	3.9	3.3	3.0	5.2	5.8	39	44	12	5.7	3.4
19	6.1	4.2	3.8	3.3	3.0	5.1	6.0	39	43	17	5.5	3.4
20	5.7	4.2	3.9	3.3	3.0	5.0	6.0	35	40	16	5.5	3.4
21	5.5	4.2	3.9	3.3	3.0	4.9	6.0	31	39	14	5.5	3.2
22	5.5	4.2	3.9	3.3	3.0	4.8	6.8	28	38	13	5.2	3.2
23	5.6	4.2	3.9	3.2	3.0	5.0	8.4	29	36	12	5.2	3.2
24	5.8	4.2	3.9	3.2	3.0	5.0	11	32	34	11	5.0	3.2
25	5.6	4.2	3.9	3.2	3.0	5.0	13	38	32	11	5.0	3.2
26	5.4	4.2	3.8	3.2	3.0	5.0	15	45	31	10	4.7	3.1
27	5.8	4.1	3.7	3.2	3.1	5.0	13	51	30	11	4.7	3.2
28	5.2	4.1	3.7	3.2	3.2	5.0	11	53	28	10	4.7	3.2
29	5.1	4.3	3.6	3.2	-----	5.0	10	54	27	9.4	4.4	3.1
30	5.9	4.1	3.5	3.1	-----	5.0	9.5	52	26	9.1	4.4	3.1
31	5.2	-----	3.5	3.1	-----	5.0	-----	49	-----	9.1	4.2	-----
TOTAL	196.3	136.7	117.5	103.9	85.4	140.7	207.3	1,099	1,237	485.6	194.1	106.5
MEAN	6.33	4.56	3.79	3.35	3.05	4.54	6.91	35.5	41.2	15.7	6.26	3.55
MAX	7.5	5.4	3.9	3.5	3.2	5.2	15	54	51	26	9.1	3.9
MIN	5.1	4.1	3.5	3.1	3.0	3.4	5.0	10	26	9.1	4.2	3.1
AC-FT	389	271	233	206	169	279	411	2,180	2,450	963	385	211

CAL YR 1973 TOTAL 4,632.0 MEAN 12.7 MAX 69 MIN 3.3 AC-FT 9,190
WTR YR 1974 TOTAL 4,110.0 MEAN 11.3 MAX 54 MIN 3.0 AC-FT 8,150

PEAK DISCHARGE (BASE, 60 CFS). No peak above base

NOTE.—No gage-height record Jan. 10 to May 1.

GREEN RIVER BASIN

09279000 Rock Creek near Mountain Home, Utah

LOCATION.—Lat 40°29'36", long 110°34'39", in SE¼NW¼SW¼ sec.9, T.1 N., R.6 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mile (0.2 km) upstream from Corral Creek, 7 miles (11 km) downstream from South Fork, and 12 miles (19 km) northwest of Mountain Home.

DRAINAGE AREA.—149 mi² (386 km²), approximately.

PERIOD OF RECORD.—October 1937 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,250 ft (2,210 m) from river-profile map. Prior to Apr. 12, 1939, nonrecording gage at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.—37 years, 173 ft³/s (4,899 m³/s), 125,300 acre-ft/yr (154 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 1,720 ft³/s (48.7 m³/s) May 29 (gage height, 5.13 ft or 1.564 m); minimum, 14 ft³/s (0.40 m³/s) Mar. 21 (probably caused by ice jams above station).

Period of record: Maximum discharge, 2,920 ft³/s (82.7 m³/s) June 18, 1971 (gage height, 5.98 ft or 1.823 m); maximum gage height, 6.02 ft (1.835 m) June 14, 1953; minimum discharge recorded, 7 ft³/s (0.2 m³/s) Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

REMARKS.—Records good. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	69	61	52	43	40	42	97	1,070	248	109	56
2	83	65	59	51	43	41	46	123	1,060	235	109	56
3	81	71	56	50	43	40	45	127	1,060	226	111	56
4	79	63	56	50	43	45	44	127	939	202	102	55
5	79	64	49	50	42	42	44	145	937	193	97	54
6	78	77	52	50	41	41	45	190	774	144	95	53
7	76	73	55	50	41	40	42	245	634	176	92	53
8	76	72	55	50	40	40	41	331	524	169	89	54
9	81	69	51	50	40	40	45	442	480	165	89	54
10	80	68	51	50	41	42	45	553	474	158	87	53
11	81	68	52	51	40	42	46	539	581	151	83	52
12	81	68	52	51	39	43	47	564	711	144	81	54
13	77	66	54	50	39	44	46	561	798	137	80	55
14	80	66	52	50	39	46	47	520	847	132	77	55
15	78	57	52	50	39	49	45	497	832	131	75	56
16	75	68	53	49	39	50	48	548	735	147	73	54
17	72	67	52	46	38	53	47	562	732	145	71	53
18	70	66	52	45	38	52	51	574	678	134	69	52
19	68	65	50	46	39	46	53	608	636	155	68	51
20	68	55	46	46	38	45	53	520	622	225	66	51
21	66	64	51	46	38	41	51	430	571	165	66	50
22	66	53	52	40	39	44	54	386	502	144	65	50
23	65	58	50	47	38	42	63	385	446	168	65	50
24	64	58	48	43	37	39	74	413	419	146	64	49
25	64	53	48	45	38	44	89	574	395	144	64	49
26	63	56	44	45	38	44	108	784	376	129	63	49
27	61	56	47	44	40	44	96	1,110	343	126	62	49
28	65	58	52	44	40	44	85	1,420	308	129	61	52
29	64	60	51	44	-----	42	80	1,520	282	116	60	51
30	58	61	50	43	-----	44	77	1,250	267	112	59	51
31	66	-----	49	43	-----	43	-----	1,090	-----	111	57	-----
TOTAL	2,251	1,914	1,602	1,471	1,113	1,352	1,699	17,235	19,033	4,947	2,409	1,577
MEAN	72.6	63.8	51.7	47.5	39.8	43.6	56.6	556	634	160	77.7	52.6
MAX	86	77	61	52	43	53	108	1,520	1,070	248	111	56
MIN	58	53	44	40	37	39	41	97	267	111	57	49
AC-FT	4,460	3,800	3,180	2,920	2,210	2,680	3,370	34,190	37,750	9,810	4,780	3,130

CAL YR 1973 TOTAL 64,433 MEAN 177 MAX 1,330 MIN 40 AC-FT 127,800
WTR YR 1974 TOTAL 56,603 MEAN 155 MAX 1,520 MIN 37 AC-FT 112,300

PEAK DISCHARGE (BASE, 1,200 CFS).—May 29 (0300) 1,720 cfs (5.13 ft).

GREEN RIVER BASIN

53

09279100 Rock Creek near Talmage, Utah

LOCATION.--Lat 40°18'40", long 110°29'36", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.2 S., R.5 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1.5 miles (2.4 km) upstream from mouth, 4.1 miles (6.6 km) southwest of Talmage and 11 miles (18 km) northwest of Duchesne.

DRAINAGE AREA.--240 mi² (622 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,119.3 ft (1,865.16 m) above mean sea level, adjustment of 1927.

AVERAGE DISCHARGE.--11 years, 153 ft³/s (4.333 m³/s), 139,800 acre-ft/yr (172 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft³/s (44.5 m³/s) May 29 (gage height, 3.62 ft or 1.103 m); minimum recorded, 29 ft³/s (0.59 m³/s) Mar. 21.

Period of record: Maximum discharge, 2,320 ft³/s (65.7 m³/s) July 29, 1968 (gage height, 4.37 ft or 1.332 m); minimum indicated, 21 ft³/s (0.59 m³/s) Nov. 26, 1967, Jan. 9, 1969, Mar. 29, 1972, Mar. 21, 1974, probably caused by ice jams above station.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	73	62	53	44	41	47	97	1,040	258	116	55
2	85	69	60	52	44	42	53	127	1,030	247	117	55
3	86	79	58	52	44	42	47	140	1,050	243	118	56
4	83	71	56	52	44	47	48	137	928	220	111	55
5	82	78	56	52	44	46	50	155	918	204	104	55
6	81	81	58	52	43	43	51	196	784	196	101	54
7	80	78	56	52	42	42	47	247	634	190	97	53
8	80	78	54	52	42	41	45	312	533	179	94	54
9	83	78	54	52	42	42	49	397	496	174	92	54
10	84	73	54	52	42	43	50	494	473	167	92	52
11	84	73	56	52	41	44	51	490	540	158	87	52
12	84	75	56	52	41	45	52	509	640	148	85	54
13	80	73	54	52	40	47	50	512	731	142	81	56
14	81	75	54	52	40	49	53	484	781	137	78	57
15	81	63	56	51	40	51	50	462	778	133	75	57
16	80	75	54	50	40	52	53	497	677	149	73	56
17	77	75	54	49	40	54	52	513	669	155	70	53
18	71	75	52	48	40	54	54	520	625	143	68	53
19	73	73	50	48	40	50	58	553	576	140	66	52
20	73	62	52	48	40	47	59	499	555	231	64	52
21	69	72	54	47	40	43	56	429	525	178	63	52
22	68	63	52	46	40	48	57	384	465	149	62	52
23	67	60	50	48	40	49	63	382	426	171	61	51
24	66	58	49	46	39	44	74	397	397	154	62	50
25	66	57	47	46	39	48	92	502	376	150	62	50
26	67	58	50	46	40	49	115	666	356	136	62	50
27	64	60	54	46	41	48	110	1,030	333	131	60	50
28	65	62	54	45	41	49	93	1,270	306	139	59	52
29	66	63	53	45	-----	48	91	1,420	285	125	59	52
30	62	63	53	45	-----	49	84	1,250	271	117	58	52
31	67	-----	53	45	-----	49	-----	1,080	-----	116	56	-----
TOTAL	2,342	2,093	1,675	1,528	1,153	1,446	1,854	16,151	18,198	5,180	2,453	1,596
MEAN	75.5	69.8	54.0	49.3	41.2	46.6	61.8	521	607	167	79.1	53.2
MAX	87	81	62	53	44	54	115	1,420	1,050	258	118	57
MIN	62	57	47	45	39	41	45	97	271	116	56	50
AC-FT	4,650	4,150	3,320	3,030	2,290	2,870	3,680	32,040	36,100	10,270	4,870	3,170

CAL YR 1973 TOTAL 66,061 MEAN 181 MAX 1,330 MIN 42 AC-FT 131,000
WTR YR 1974 TOTAL 55,669 MEAN 153 MAX 1,420 MIN 39 AC-FT 110,400

PEAK DISCHARGE (BASE, 1,200 CFS).--May 29 (0800) 1,570 cfs (3.62 ft).

NOTE.--No gage-height record Jan. 21 to Mar. 20.

GREEN RIVER BASIN

09279150 Duchesne River above Knight diversion, near Duchesne, Utah

LOCATION.—Lat 40°16'16", long 110°26'32", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.2 S., R.5 W., Uintah meridian, Duchesne County, on left bank 50 ft (15 m) downstream from bridge on State Highway 35, 1.7 miles (2.7 km) upstream from Knight diversion dam, 3.9 miles (6.3 km) downstream from Rock Creek, and 7.7 miles (12.4 km) north-northwest of Duchesne.

DRAINAGE AREA.—620 mi² (1,610 km²), approximately.

PERIOD OF RECORD.—April 1970 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,840 ft (1,780 m) from topographic map. Prior to Apr. 25, 1973, at a site 150 ft (46 m) upstream at different gage datum.

EXTREMES.—Current year: Maximum discharge, 3,160 ft³/s (89.5 m³/s) May 29 (gage height, 7.10 ft or 2.164 m, from outside floodmark); minimum, 68 ft³/s (1.93 m³/s) Sept. 2, 1974.
Period of record: Maximum discharge, 3,740 ft³/s (106 m³/s) June 4, 1972 (gage height, 5.53 ft or 1.686 m); minimum, 68 ft³/s (1.93 m³/s) Sept. 2, 1974.

REMARKS.—Records good except for period of no gage-height record, which is poor. Several diversions above station for irrigation, including a transmountain diversion to The Great Basin through Duchesne tunnel.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	198	219	178	178	173	200	215	2,170	327	195	72
2	192	203	219	168	175	176	200	255	2,220	305	200	72
3	187	216	197	167	172	170	200	301	2,190	292	202	75
4	185	210	206	190	174	163	200	301	1,890	268	190	75
5	183	209	196	190	173	167	200	326	1,850	255	180	77
6	180	229	194	190	164	184	200	401	1,770	251	170	74
7	181	227	200	190	170	183	200	505	1,440	243	160	74
8	179	228	207	190	165	181	200	628	1,270	235	150	81
9	185	227	198	190	160	178	200	711	1,120	227	140	85
10	189	222	190	190	168	184	200	957	1,040	223	130	87
11	194	223	195	187	167	189	200	1,200	1,100	213	128	113
12	189	223	204	191	165	188	200	1,710	1,220	190	122	113
13	189	227	205	193	167	189	200	2,230	1,390	178	115	113
14	184	227	198	202	167	190	200	2,300	1,560	175	112	118
15	185	220	191	192	167	195	200	2,100	1,600	165	108	121
16	178	240	197	194	159	202	200	2,200	1,500	196	102	118
17	177	238	200	186	164	206	200	2,300	1,400	193	98	118
18	177	232	205	186	159	209	200	2,350	1,300	189	98	115
19	173	235	196	184	169	208	200	2,400	1,200	181	97	113
20	172	217	176	185	163	208	210	2,140	1,100	260	95	113
21	172	228	182	184	159	208	208	1,400	1,080	242	87	115
22	173	204	201	171	169	205	208	952	902	225	87	118
23	175	214	202	180	170	205	208	933	785	243	87	127
24	180	216	191	175	155	203	225	949	709	232	95	127
25	183	212	190	178	166	202	250	1,160	619	214	97	121
26	185	215	177	183	170	202	280	1,500	530	210	95	121
27	181	206	178	175	171	202	230	2,150	447	230	93	124
28	184	209	200	184	169	202	200	2,530	406	242	95	127
29	183	210	203	183	-----	202	198	2,860	365	214	87	130
30	185	218	202	180	-----	202	198	2,500	343	203	81	130
31	185	-----	169	178	-----	200	-----	2,250	-----	196	77	-----
TOTAL	5,657	6,583	6,088	5,714	4,675	5,976	6,215	44,715	36,516	7,017	3,773	3,167
MEAN	182	219	196	184	167	193	207	1,442	1,217	226	122	106
MAX	194	240	219	202	178	209	280	2,860	2,220	327	202	130
MIN	172	198	169	167	155	163	198	216	343	165	77	72
AC-FT	11,220	13,060	12,080	11,330	9,270	11,850	12,330	88,690	72,430	13,920	7,480	6,280
CAL YR 1973	TOTAL 140,462		MEAN 385	MAX 2,480	MIN 149	AC-FT 278,600						
WTR YR 1974	TOTAL 136,097		MEAN 373	MAX 2,860	MIN 72	AC-FT 269,900						

NOTE.—No gage-height record Mar. 20 to Apr. 29.

09280400 Hobble Creek at Daniels Summit, near Wallsburg, Utah

LOCATION.—Lat 40°17'54", long 111°15'52", in NW¼NW¼NE¼ sec.20, T.2 S., R.12 W., Uintah meridian, Wasatch County, on left bank about 1,000 ft (305 m) upstream from crossing of Hobble Creek ditch, 0.5 mile (0.8 km) west of Daniels Summit on U.S. Highway 40, and 10.5 miles (16.9 km) southeast of Wallsburg.

DRAINAGE AREA.—1.4 mi² (3.6 km²), approximately.

PERIOD OF RECORD.—October 1963 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 8,200 ft (2,499 m) from topographic map.

AVERAGE DISCHARGE.—11 years, 2.82 ft³/s (0.080 m³/s), 2,040 acre-ft/yr (2.52 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 60 ft³/s (1.70 m³/s) May 27 (gage height, 2.39 ft or 0.728 m); minimum, 0.03 ft³/s (0.001 m³/s) July 31.

Period of record: Maximum discharge, 117 ft³/s (3.31 m³/s) June 5, 1968 and May 20, 1973 (gage height, 2.65 ft or 0.808 m); no flow at times during February to April 1964, January to March 1966, Sept. 4, 1967, Aug. 10-17, 1970.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.35	.24	.15	.15	.15	.50	11	18	.97	.06	.05
2	.25	.31	.23	.15	.15	.15	.55	13	16	.96	.16	.05
3	.22	.38	.22	.15	.15	.16	.46	14	15	.93	.22	.06
4	.20	.36	.21	.15	.15	.16	.45	17	14	.81	.14	.06
5	.20	.37	.21	.15	.15	.16	.45	20	13	.68	.16	.06
6	.20	.37	.22	.15	.15	.17	.45	22	11	.60	.11	.05
7	.22	.44	.21	.15	.15	.18	.37	25	9.6	.51	.11	.05
8	.26	.45	.20	.15	.15	.19	.37	30	9.6	.41	.09	.06
9	.28	.34	.20	.15	.15	.19	.46	37	7.1	.42	.09	.05
10	.27	.31	.22	.15	.15	.20	.50	38	5.8	.32	.09	.06
11	.26	.29	.24	.15	.15	.23	.45	35	5.0	.26	.08	.06
12	.28	.34	.23	.15	.15	.30	.44	33	4.7	.22	.08	.09
13	.26	.36	.20	.15	.15	.50	.41	28	4.4	.16	.08	.09
14	.29	.26	.20	.15	.15	.70	.43	25	3.8	.14	.06	.09
15	.26	.33	.19	.15	.15	.90	.56	28	3.5	.22	.06	.10
16	.24	.34	.17	.15	.15	1.1	.78	30	3.2	.45	.06	.10
17	.23	.29	.17	.15	.15	1.3	1.3	28	3.1	.35	.06	.09
18	.20	.31	.17	.15	.15	1.2	1.7	27	2.7	.22	.06	.08
19	.20	.36	.17	.15	.15	.66	1.5	24	2.6	.22	.05	.08
20	.20	.29	.17	.15	.15	.53	1.4	17	2.3	.35	.06	.08
21	.20	.28	.17	.15	.15	.51	1.2	13	2.0	.26	.06	.08
22	.20	.28	.17	.15	.15	.50	1.6	13	2.0	.19	.06	.08
23	.24	.29	.17	.15	.15	.45	2.5	15	1.8	.12	.06	.09
24	.32	.28	.17	.15	.15	.46	3.9	21	1.6	.14	.06	.07
25	.31	.28	.17	.15	.15	.55	7.8	25	1.3	.11	.06	.07
26	.26	.28	.17	.15	.15	.70	9.9	30	1.2	.08	.06	.06
27	.27	.29	.17	.15	.15	.63	6.8	37	1.0	.06	.06	.07
28	.26	.25	.17	.15	.15	.56	4.7	37	.92	.09	.06	.07
29	.27	.24	.16	.15	-----	.51	4.6	31	.71	.06	.05	.07
30	.30	.24	.15	.15	-----	.50	7.3	26	.57	.04	.05	.08
31	.34	-----	.15	.15	-----	.53	-----	21	-----	.04	.05	-----
TOTAL	7.71	9.56	5.89	4.65	4.20	15.03	63.83	771	167.50	10.39	2.51	2.15
MEAN	.25	.32	.19	.15	.15	.48	2.13	24.9	5.58	.34	.081	.072
MAX	.34	.45	.24	.15	.15	1.3	9.9	38	18	.97	.22	.10
MIN	.20	.24	.15	.15	.15	.15	.37	11	.57	.04	.05	.05
AC-FT	15	19	12	9.2	8.3	30	127	1,530	332	21	5.0	4.3
CAL YR 1973	TOTAL 1,370.64 MEAN 3.76 MAX 77 MIN .02 AC-FT 2,720											
WTR YR 1974	TOTAL 1,064.42 MEAN 2.92 MAX 38 MIN .04 AC-FT 2,110											

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2000	2.36	56	5-27	2000	2.39	60
5-15	2000	2.21	38				

NOTE.—No gage-height record Dec. 30 to March 13.

GREEN RIVER BASIN

09285000 Strawberry River near Soldier Springs, Utah

LOCATION.--Lat 40°07'53", long 111°01'34", in NW¼NW¼ sec. 16, T.4 S., R.10 W., Uintah meridian, Wasatch County, on left bank 2.0 miles (3.2 km) upstream from Willow Creek, 150 ft (45.7 m) below Solider Creek Dam, and 4 miles (6 km) south of Soldier Springs.

DRAINAGE AREA.--210 mi² (544 km²) approximately, includes approximately 170 mi² (440 km²) tributary to Strawberry Reservoir, which includes area above diversion dams on Indian and Trail Hollow Creeks.

PERIOD OF RECORD.--October 1942 to September 1956, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,360 ft (2,243 m) above mean sea level (from topographic map). Prior to June 1, 1971, water-stage recorder at site about 0.2 mile (0.3 km) upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mile (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--23 years (1943-56, 1964-72) 31.0 ft³/s (0.878 m³/s), 22,500 acre-ft/yr (27.7 hm³/yr) prior to completion of Soldier Creek Dam.

EXTREMES.--Current year: Maximum daily discharge, 14 ft³/s (0.40 m³/s) May 26-July 2; minimum daily discharge, 9.2 ft³/s (0.26 m³/s) Oct. 1.

Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) May 4, 1952 (gage height, 3.84 ft or 1.170 m), from rating curve extended above 550 ft³/s (15.6 m³/s); minimum daily, 0.23 ft³/s (0.007 m³/s) July and August 1973.

REMARKS.--Records good, except those for periods of no gage-height record and August and September, which are poor. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm³) since June 30, 1973; 283,000 acre-ft (349 hm³) prior to June 30, 1973. New earthfilled dam located 7 miles (11 km) below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow tunnel will divert 600 ft³/s (17.0 m³/s) to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	11	12	12	12	12	12	13	14	14	12	12
2	9.3	11	12	12	12	12	12	13	14	14	12	12
3	9.5	11	12	12	12	12	12	13	14	13	12	12
4	9.6	11	12	12	12	12	12	13	14	13	12	12
5	9.6	11	12	12	12	12	12	13	14	13	12	12
6	9.6	11	12	12	12	12	12	13	14	13	12	12
7	9.6	11	12	12	12	12	12	13	14	13	12	12
8	9.6	11	12	12	12	12	12	12	14	13	12	12
9	9.6	11	12	12	12	12	12	12	14	13	12	12
10	9.6	11	12	12	12	12	12	12	14	13	12	12
11	9.8	11	12	12	12	12	12	12	14	13	12	12
12	10	11	12	12	12	12	12	12	14	13	12	12
13	10	11	12	12	12	12	12	12	14	12	12	12
14	10	11	12	12	12	12	12	12	14	12	12	12
15	10	12	12	12	12	12	12	12	14	12	12	12
16	10	12	12	12	12	12	12	12	14	12	12	12
17	10	12	12	12	12	12	12	12	14	12	12	12
18	10	12	12	12	12	12	12	12	14	12	12	12
19	10	12	12	12	12	12	12	12	14	12	12	12
20	11	12	12	12	12	12	12	12	14	12	12	12
21	11	12	12	12	12	12	12	13	14	12	12	12
22	11	12	12	12	12	12	12	13	14	12	12	12
23	11	12	12	12	12	12	13	13	14	12	12	13
24	11	12	12	12	12	12	13	13	14	12	12	13
25	11	12	12	12	12	12	13	13	14	12	12	13
26	11	12	12	12	12	12	13	14	14	12	12	13
27	11	12	12	12	12	12	13	14	14	12	12	13
28	11	12	12	12	12	12	13	14	14	12	12	13
29	11	12	12	12	-----	12	13	14	14	12	12	13
30	11	12	12	12	-----	12	13	14	14	12	12	13
31	11	-----	12	12	-----	12	-----	14	-----	12	12	-----
TOTAL	317.0	346	372	372	336	372	368	396	420	386	372	368
MEAN	10.2	11.5	12.0	12.0	12.0	12.0	12.3	12.8	14.0	12.5	12.0	12.3
MAX	11	12	12	12	12	12	13	14	14	14	12	13
MIN	9.2	11	12	12	12	12	12	12	14	12	12	12
AC-FT	629	686	738	738	666	738	730	785	833	766	738	730

CAL YR 1973 TOTAL 11,733.09 MEAN 32.1 MAX 231 MIN 9.2 AC-FT 23,270
WTR YR 1974 TOTAL 4,425.00 MEAN 12.1 MAX 14 MIN 9.2 AC-FT 8,780

NOTE.--No gage-height record Oct. 27 to Mar. 21.

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REMARKS.—Records good, except those for winter periods, which are poor. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm³) since June 30, 1973; 283,000 acre-ft (349 hm³) prior to June 30, 1973. New earthfilled dam located 7 miles (11 km) below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow tunnel will divert 600 ft³/s (17.0 m³/s) to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	32	31	31	36	30	29	27	65	38	37	28
2	29	33	32	30	35	31	31	27	66	37	41	27
3	28	33	32	27	34	31	31	29	65	37	38	27
4	29	31	31	17	32	29	30	36	61	37	36	27
5	30	31	29	16	31	30	30	40	60	37	35	28
6	30	34	27	17	29	31	29	46	61	37	35	24
7	30	34	32	26	28	31	29	56	62	35	33	25
8	30	34	31	35	26	30	29	77	63	35	32	25
9	30	34	29	37	26	30	29	99	60	30	32	26
10	30	34	28	35	28	31	29	126	57	30	31	26
11	30	34	32	31	30	32	29	129	58	30	31	26
12	29	36	31	28	31	31	30	125	55	33	31	27
13	29	35	32	29	32	31	29	123	47	34	31	28
14	29	35	32	31	34	31	29	116	47	34	26	28
15	29	33	29	32	33	30	28	109	48	35	26	29
16	28	33	33	32	31	30	27	108	48	39	26	32
17	28	33	33	32	31	30	27	107	47	40	28	30
18	29	33	33	32	31	30	27	106	47	39	28	29
19	29	33	31	32	31	30	27	104	49	42	28	28
20	29	31	24	32	30	30	28	103	47	48	28	27
21	28	34	28	32	29	30	27	98	47	47	29	27
22	28	31	34	32	28	30	27	91	47	42	28	27
23	29	33	35	32	28	30	26	85	46	41	28	27
24	29	32	30	32	28	30	27	76	44	41	28	27
25	29	31	33	32	28	30	27	71	43	39	27	27
26	29	30	24	32	30	29	28	64	41	37	26	23
27	29	29	30	32	31	29	27	61	39	36	26	24
28	29	30	37	32	30	30	26	62	41	36	26	24
29	30	29	35	32	-----	30	26	63	41	36	26	25
30	31	32	34	32	-----	30	26	65	40	36	26	26
31	31	-----	34	33	-----	30	-----	65	-----	39	26	-----
TOTAL	906	977	966	935	851	937	844	2,494	1,542	1,157	929	804
MEAN	29.2	32.6	31.2	30.2	30.4	30.2	28.1	80.5	51.4	37.3	30.0	26.8
MAX	31	36	37	37	36	32	31	129	66	48	41	32
MIN	28	29	24	16	26	29	26	27	39	30	26	23
AC-FT	1,800	1,940	1,920	1,850	1,690	1,860	1,670	4,950	3,060	2,290	1,840	1,590
CAL YR 1973	TOTAL 23,971		MEAN 65.7	MAX 413	MIN 16	AC-FT 47,550						
WTR YR 1974	TOTAL 13,342		MEAN 36.6	MAX 129	MIN 16	AC-FT 26,460						

GREEN RIVER BASIN

09287500 Water Hollow near Fruitland, Utah

LOCATION.--Lat 40°14'30", long 110°58'48", in SW¼SW¼SE¼ sec.2, T.3 S., R.10 W., Uintah meridian, Wasatch County, on left bank 1.5 miles (2.4 km) upstream from mouth and 7.5 miles (12.1 km) northwest of Fruitland.

DRAINAGE AREA.--14.0 mi² (36.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,110 ft (2,167 m) from topographic map.

AVERAGE DISCHARGE.--25 years (1946-71), 5.71 ft³/s (0.162 m³/s), 4,140 acre-ft/yr (5.1 hm³/yr) prior to diversion to Water Hollow Tunnel.

EXTREMES.--Current year: Maximum discharge, 66 ft³/s (1.869 m³/s) July 20 (gage height, 2.55 ft or 0.777 m); minimum discharge, 0.06 ft³/s (0.002 m³/s) July 15.

Period of record: Maximum discharge, 133 ft³/s (3.77 m³/s) July 18, 1954 (gage height, 3.24 ft or 0.988 m), from rating curve extended above 56 ft³/s (1.59 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 3.59 ft (1.094 m) Nov. 25, 1969 (backwater from ice); minimum discharge recorded, no flow Jan. 6, 1973, result of freezeup.

REMARKS.--Records good. Diversion into Water Hollow tunnel for storage in Strawberry Reservoir began Dec. 9, 1971. Diversion 3.5 miles (5.6 km) upstream from gage; all flows up to 20 ft³/s (0.57 m³/s) diverted at this point.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.3	1.5	1.6	2.1	2.5	2.5	2.4	2.1	.89	.86	.82
2	4.4	4.3	1.3	1.6	2.1	2.6	2.6	2.3	2.2	.92	.65	.86
3	4.5	4.2	1.4	1.6	2.1	2.5	2.7	2.3	2.2	1.0	.60	.90
4	4.3	4.1	1.4	1.8	2.0	2.4	2.5	2.9	2.2	.75	.46	.86
5	4.3	4.0	1.4	1.8	1.9	2.3	2.4	2.9	2.2	.74	.37	.86
6	4.3	3.9	1.4	1.8	1.9	2.3	2.4	2.8	2.3	.78	.40	.81
7	4.2	3.8	1.4	1.8	1.9	2.3	2.3	3.0	2.3	.62	.32	.86
8	4.3	1.6	1.4	1.8	1.9	2.3	2.4	2.0	2.4	.54	.29	.87
9	4.5	1.2	1.4	1.8	1.9	2.4	2.3	1.6	2.2	.50	.27	.87
10	4.1	1.2	1.4	1.8	2.1	2.5	2.5	1.9	2.3	.47	.25	.75
11	3.9	1.1	1.4	1.8	2.0	2.6	2.4	2.1	2.2	.43	.24	.62
12	3.9	1.2	1.4	1.8	2.0	2.8	2.5	2.2	2.1	.32	.18	.58
13	3.9	1.3	1.4	1.9	1.9	2.8	2.6	2.3	2.1	.30	.16	.62
14	4.0	1.5	1.4	2.0	1.9	2.9	2.5	2.4	2.1	.27	.15	.57
15	4.1	1.5	1.4	1.9	2.0	3.3	2.4	2.2	2.0	.37	.19	.61
16	4.0	1.6	1.4	1.9	2.0	3.5	2.5	2.2	2.0	.60	.79	.60
17	4.1	1.6	1.4	1.9	2.0	3.7	2.4	2.2	2.1	.48	.85	.54
18	4.0	1.6	1.4	1.9	2.0	3.5	2.6	2.1	2.2	.34	.90	.51
19	4.0	1.7	1.4	2.0	2.0	3.2	2.6	1.9	2.1	.31	.84	.53
20	4.0	1.7	1.4	1.9	2.1	2.9	3.1	2.2	2.0	6.5	.88	.48
21	3.7	1.6	1.4	1.9	2.0	3.1	2.5	2.1	.78	2.1	1.0	.50
22	3.7	1.5	1.4	2.0	2.0	2.8	2.4	2.0	1.7	1.1	.92	.53
23	3.8	1.5	1.4	2.0	2.0	2.4	2.4	2.0	1.8	.78	.95	.53
24	3.7	1.4	1.3	2.0	1.9	2.7	2.4	2.0	1.6	.97	.58	.47
25	3.7	1.4	1.3	2.0	2.0	2.6	2.4	1.7	1.5	.88	.35	.46
26	3.7	1.4	1.6	2.0	2.0	2.5	2.5	1.7	1.4	.59	.28	.35
27	3.7	1.4	1.6	2.0	1.9	2.6	2.4	1.6	1.3	.48	.24	.55
28	3.7	1.5	1.7	2.0	1.9	2.6	2.3	1.5	1.2	.47	.21	.55
29	3.7	1.5	1.8	1.9	-----	2.6	2.4	1.5	1.0	.48	.23	.63
30	3.8	1.4	1.7	1.9	-----	2.6	2.4	1.7	.99	.40	.20	.75
31	4.0	-----	1.7	2.0	-----	2.8	-----	2.0	-----	.58	.70	-----
TOTAL	124.4	62.0	44.9	58.1	55.5	84.6	74.3	65.7	56.57	25.96	15.31	19.44
MEAN	4.01	2.07	1.45	1.87	1.98	2.73	2.48	2.12	1.89	.84	.49	.65
MAX	4.5	4.3	1.8	2.0	2.1	3.7	3.1	3.0	2.4	6.5	1.0	.90
MIN	3.7	1.1	1.3	1.6	1.9	2.3	2.3	1.5	.78	.27	.15	.35
AC-FT	247	123	89	115	110	168	147	130	112	51	30	39

CAL YR 1973 TOTAL 707.51 MEAN 1.94 MAX 7.2 MIN .27 AC-FT 1,400
WTR YR 1974 TOTAL 686.78 MEAN 1.88 MAX 6.5 MIN .15 AC-FT 1,360

09288000 Currant Creek near Fruitland, Utah

LOCATION.--Lat 40°12'01", long 110°54'25", in NE¼SE¼SW¼ sec. 21, T.3 S., R.9 W., Uintah meridian, Wasatch County, on left bank 150 ft (46 m) downstream from Deep Creek, 150 ft (46 m) upstream from bridge on U.S. highway 40 and 3.5 miles (5.6 km) southwest of Fruitland.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,670 ft (2,033 m) from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft (46 m) downstream at datum 1.30 ft (0.396 m) lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

AVERAGE DISCHARGE.--40 years, 46.3 ft³/s (1.311 m³/s), 33,540 acre-ft/yr (41.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 444 ft³/s (12.6 m³/s) May 10 (gage height, 2.26 ft or 0.689 m, from floodmark); minimum discharge, 5.8 ft³/s (0.16 m³/s) Mar. 4, result of freezeup.

Period of record: Maximum discharge, 1,260 ft³/s (35.7 m³/s) May 4, 1952 (gage height, 2.72 ft or 0.829 m, site and datum then in use); maximum gage height, 5.92 ft (1.804 m), Jan. 27, 1974, backwater from ice; minimum discharge recorded, 3.6 ft³/s (0.10 m³/s) Aug. 9, 10, 1961.

REMARKS.--Records good except those for winter periods, which are poor. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry tunnel to The Great Basin for irrigation in Strawberry Valley project. Since 1962, Deep Creek has been diverted intermittently into private fish ponds and enters Currant Creek 400 ft (122 m) below gage. Construction of Currant Creek dam began August 1974.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	30	24	26	25	31	104	90	19	19	13
2	27	28	26	23	23	26	34	129	82	20	18	14
3	25	28	25	22	26	23	29	125	73	22	18	14
4	25	25	24	20	26	19	27	119	66	20	17	14
5	24	25	23	17	25	20	27	143	64	20	15	14
6	23	31	23	19	24	25	26	195	68	19	16	14
7	26	31	24	21	23	26	25	245	63	15	14	14
8	27	31	24	23	22	24	24	294	63	15	14	14
9	30	29	22	25	20	24	26	334	60	15	14	12
10	29	28	22	24	22	30	25	340	55	15	14	13
11	27	27	24	22	24	29	24	231	50	15	14	12
12	25	28	24	21	24	29	27	213	48	15	14	13
13	25	29	24	19	24	31	27	203	46	17	14	14
14	25	29	23	21	24	34	29	176	42	18	13	15
15	25	24	22	24	24	38	25	174	39	21	13	15
16	24	28	24	24	24	41	26	179	38	33	13	15
17	23	30	24	24	24	47	30	170	38	29	13	14
18	23	29	24	22	21	48	36	158	37	25	13	13
19	22	30	20	24	24	38	39	154	36	22	14	14
20	22	25	18	24	22	35	44	131	34	41	14	14
21	24	28	23	24	19	33	41	123	31	33	15	13
22	23	19	24	16	19	31	37	113	30	27	16	13
23	22	20	24	24	19	31	51	108	28	23	16	14
24	23	20	21	19	19	28	63	104	27	25	17	13
25	25	21	24	22	21	30	82	108	26	26	18	13
26	26	22	19	24	24	33	118	106	25	21	17	14
27	25	25	23	24	26	32	90	108	23	18	15	13
28	26	28	24	24	24	35	70	113	22	18	14	15
29	27	28	24	24	-----	30	65	108	22	17	12	15
30	26	29	24	24	-----	34	78	106	20	15	12	15
31	25	-----	24	25	-----	35	-----	97	-----	20	12	-----
TOTAL	776	803	724	693	643	964	1,276	5,011	1,346	659	458	413
MEAN	25.0	26.8	23.4	22.4	23.0	31.1	42.5	162	44.9	21.3	14.8	13.8
MAX	30	31	30	25	26	48	118	340	90	41	19	15
MIN	22	19	18	16	19	19	24	97	20	15	12	12
AC-FT	1,540	1,590	1,440	1,370	1,280	1,910	2,530	9,940	2,670	1,310	908	819
CAL YR 1973	TOTAL 16,959	MEAN 46.5	MAX 390	MIN 14	AC-FT 33,640							
WTR YR 1974	TOTAL 13,766	MEAN 37.7	MAX 340	MIN 12	AC-FT 27,300							

PEAK DISCHARGE (BASE, 200 CFS).--May 10 (0500) 444 cfs (2.26 ft).

LOCATION.—Lat 40°08'47", long 110°45'09", in NE¼SW¼ sec.11, T.4 S., R.8 W., Uintah meridian, Duchesne County, on right bank 700 ft (213 m) upstream from bridge, 1.6 miles (2.6 km) upstream from mouth, 3.2 miles (5.1 km) downstream from Currant Creek, and 7 miles (11 km) southeast of Fruitland.

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

AVERAGE DISCHARGE.--11 years, 59.2 ft³/s (1.677 m³/s), 42,890 acre-ft/yr (52.9 hm³/yr).

Period of record: Maximum discharge, 1,340 ft³/s (37.9 m³/s) Aug. 31, 1967 (gage height, 4.46 ft or 1.359 m, in gage well, 4.74 ft or 1.445 m from floodmarks), from rating curve extended above 540 ft³/s (15.3 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.5 ft³/s (0.16 m³/s) Sept. 2, 1974.

REMARKS.—Records good except those for winter period, which are poor. Several diversions above station for irrigation, including transmountain diversion to the Great Basin through Strawberry tunnel. Flow slightly regulated by Red Creek Reservoir, 13 miles (21 km) upstream, beginning July 1960, capacity 5,700 acre-ft (7.03 km³).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	39	34	34	37	40	43	100	73	26	36	14
2	43	39	34	33	36	39	46	128	71	24	43	6.8
3	42	40	33	31	35	38	43	135	64	27	30	9.1
4	42	41	32	27	34	35	40	147	61	27	26	10
5	43	40	31	21	32	35	40	168	60	29	24	9.1
6	43	44	29	24	31	38	41	206	66	28	23	11
7	42	43	33	32	29	42	40	237	62	28	23	10
8	43	42	33	35	27	40	39	267	65	26	22	10
9	44	39	31	35	29	40	40	292	62	24	25	11
10	45	38	30	36	30	48	42	299	57	23	25	12
11	46	37	33	34	32	48	41	237	53	23	24	12
12	43	37	33	29	33	50	41	221	48	23	24	15
13	39	38	33	31	35	52	39	208	45	24	23	16
14	38	38	33	33	35	54	45	174	44	24	20	17
15	39	33	31	33	34	57	43	164	44	24	17	17
16	38	38	34	33	33	58	41	169	44	37	17	18
17	37	37	34	33	32	62	43	158	46	39	19	18
18	37	35	34	33	32	61	47	151	44	32	19	17
19	38	36	33	33	32	53	51	136	42	31	17	18
20	37	35	27	33	32	48	54	116	40	39	16	18
21	38	36	30	33	31	42	49	105	39	49	16	18
22	37	31	34	28	29	44	48	93	37	38	17	17
23	38	27	36	33	29	43	52	89	35	30	17	17
24	38	27	32	33	29	40	63	87	33	35	15	17
25	37	28	35	33	30	41	76	86	33	33	16	18
26	37	29	29	33	32	43	104	93	29	29	17	17
27	36	30	34	33	36	43	93	84	27	23	26	17
28	40	31	38	33	40	45	77	83	27	22	17	18
29	41	32	36	33	-----	44	74	80	27	21	17	18
30	41	33	34	34	-----	44	80	80	25	17	16	18
31	40	-----	35	36	-----	46	-----	75	-----	55	14	-----
TOTAL	1,245	1,073	1,018	995	906	1,413	1,575	4,668	1,403	910	661	444.0
MEAN	40.2	35.8	32.8	32.1	32.4	45.6	52.5	151	46.8	29.4	21.3	14.8
MAX	46	44	38	36	40	62	104	299	73	55	43	18
MIN	36	27	27	21	27	35	39	75	25	17	14	6.8
AC-FT	2,470	2,130	2,020	1,970	1,800	2,800	3,120	9,260	2,780	1,800	1,310	881
CAL YR 1973	TOTAL 22,424.0		MEAN 61.4	MAX 406	MIN 27	AC-FT 44,480						
WTR YR 1974	TOTAL 16,311.0		MEAN 44.7	MAX 299	MIN 6.8	AC-FT 32,350						

09288150 West Fork Avintaquin Creek near Fruitland, Utah
(Formerly published as Cottonwood Creek near Fruitland)

LOCATION.--Lat 39°59'40", long 110°49'00", in NW¼ sec.5, T.6 S., R.8 W., Uintah meridian, Duchesne County, 0.2 mile (0.3 km) upstream from mouth and 15 miles (24 km) south of Fruitland.

DRAINAGE AREA.--56 mi² (145 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 15.5 ft³/s (0.44 m³/s) 11,230 acre-ft/yr (13.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 197 ft³/s (5.58 m³/s) July 31 (gage height, 2.00 ft or 0.610 m) from outside highwater mark; minimum recorded, 1.8 ft³/s (0.051 m³/s) many days in Feb.
Period of record: Maximum discharge, 1,830 ft³/s (51.8 m³/s) Aug. 22, 1971 (gage height, 5.40 ft or 1.646 m), from rating curve extended above 320 ft³/s (9.06 m³/s); minimum recorded, 0.2 ft³/s (0.006 m³/s) Jan. 24, 1965, result of freezeup.

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

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP
1	3.4	2.9	2.3	2.2	2.0	2.0	4.1	14	25	8.9	13	2.9
2	3.4	2.9	2.3	2.1	2.0	2.0	4.5	15	24	8.8	18	2.8
3	3.4	3.0	2.3	2.0	2.0	2.1	4.1	18	23	8.7	14	2.8
4	3.2	2.8	2.3	2.0	2.0	2.1	3.9	21	22	8.4	12	2.8
5	3.4	2.7	2.3	2.0	2.0	2.0	4.1	25	21	8.0	9.4	2.7
6	3.4	2.7	2.3	2.0	2.0	2.0	4.3	29	20	7.8	7.5	2.7
7	3.4	2.7	2.3	2.0	2.0	2.2	4.2	32	19	7.7	6.4	2.7
8	3.4	2.7	2.2	2.0	2.0	2.2	4.0	41	19	7.5	5.6	2.6
9	3.6	2.7	2.2	2.0	2.0	2.1	4.4	53	18	7.3	5.2	2.6
10	3.4	2.7	2.2	2.0	2.0	2.3	4.6	70	18	7.3	5.2	2.6
11	3.6	2.7	2.2	2.0	2.0	2.4	4.1	77	16	7.1	4.9	2.6
12	3.4	2.7	2.2	2.0	2.0	2.4	4.4	76	15	6.8	4.7	2.6
13	3.2	2.7	2.2	2.0	2.0	2.4	4.2	72	15	6.6	4.6	2.6
14	3.2	2.7	2.2	2.0	2.0	2.4	4.8	66	15	6.5	4.4	2.8
15	3.4	2.6	2.2	2.0	2.0	2.7	4.6	58	15	6.9	4.4	2.8
16	3.4	2.5	2.2	2.0	2.0	2.9	4.7	55	15	7.2	4.2	2.7
17	3.4	2.5	2.2	2.0	2.0	2.7	4.9	54	15	7.2	4.2	2.7
18	3.4	2.5	2.2	2.0	2.0	2.6	5.4	52	14	6.5	4.1	2.7
19	3.4	2.5	2.2	2.0	2.0	2.7	5.8	49	14	6.3	4.0	2.7
20	3.4	2.4	2.2	2.0	2.0	3.0	6.1	45	13	7.7	3.9	2.7
21	3.2	2.3	2.2	2.0	1.9	3.2	6.0	40	13	6.7	3.8	2.7
22	3.2	2.3	2.2	2.0	2.0	3.5	6.1	36	12	5.9	3.7	2.7
23	3.2	2.3	2.2	2.0	1.8	3.7	7.0	33	11	5.8	3.6	2.7
24	3.2	2.3	2.3	2.0	1.8	3.5	8.0	30	11	5.8	3.6	2.7
25	3.1	2.3	2.2	2.0	1.8	3.6	9.2	28	10	5.6	3.5	2.7
26	3.1	2.3	2.1	2.0	1.8	3.9	11	27	10	5.1	3.4	2.7
27	3.0	2.3	2.0	2.0	1.8	4.0	11	27	10	4.9	3.4	2.7
28	2.9	2.2	2.1	2.0	1.9	4.0	12	27	9.9	4.7	3.2	2.7
29	2.9	2.2	2.1	2.0	-----	4.0	12	27	9.5	4.6	3.1	2.7
30	2.9	2.3	2.2	2.0	-----	4.2	12	27	9.2	4.4	2.9	2.7
31	2.8	-----	2.1	2.0	-----	4.3	-----	26	-----	7.4	2.9	-----
TOTAL	101.3	76.4	68.4	62.3	54.8	89.1	185.5	1,251	461.6	210.1	176.8	81.1
MEAN	3.27	2.55	2.21	2.01	1.96	2.87	6.18	40.4	15.4	6.78	5.70	2.70
MAX	3.6	3.0	2.3	2.2	2.0	4.3	12	77	25	8.9	18	2.9
MIN	2.8	2.2	2.0	2.0	1.8	2.0	3.9	14	9.2	4.4	2.9	2.6
AC-FT	201	152	136	124	109	177	368	2,480	916	417	351	161

CAL YR 1973 TOTAL 9,773.8 MEAN 26.8 MAX 350 MIN 2.0 AC-FT 19,390
WTR YR 1974 TOTAL 2,818.4 MEAN 7.72 MAX 77 MIN 1.8 AC-FT 5,590

PEAK DISCHARGE (BASE, 80 CFS).--July 31 (1600) 197 cfs (2.00 ft) from outside high water mark.

NOTE:--No gage-height record Jan. 10 to Feb. 13.

GREEN RIVER BASIN

09288180 Strawberry River near Duchesne, Utah

LOCATION.--Lat 40°09'17", long 110°33'15", in SE¼SW¼SW¼ sec.3, T.4 S., R.6 W., Uintah meridian, Duchesne County, on right bank 150 ft (46 m) downstream from County Road bridge, 2,000 ft (610 m) upstream from maximum high-water line of Starvation Reservoir, and 7.5 miles (12.1 km) west of Duchesne.

DRAINAGE AREA.--770 mi² (1,990 km²), approximately (includes approximately 170 mi² or 440 km² tributary to Strawberry Reservoir).

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

GAGE.--Water-stage recorder. Datum of gage is 5,722 ft (1,744 m) above mean sea level (Rabbit Gulch Quadrangle which gives bridge elevation).

AVERAGE DISCHARGE.--6 years, 141 ft³/s (3.993 m³/s), 102,200 acre-ft/yr (126 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 579 ft³/s (16.4 m³/s) May 10 (gage height, 4.61 ft or 1.405 m); minimum daily discharge, 31 ft³/s (0.878 m³/s) Sept. 8.

Period of record: Maximum discharge, 1,310 ft³/s (37.1 m³/s) May 18, 1973 (gage height, 6.30 ft or 1.920 m); minimum daily discharge, 31 ft³/s (0.878 m³/s) Sept. 8, 1974.

REMARKS.--Records good, except those for winter periods and periods of no gage-height record, which are poor. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm³) since June 30, 1973; 283,000 acre-ft (349 hm³) prior to June 30, 1973. New earthfilled dam located 7 miles (11 km) below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow tunnel will divert 600 ft³/s (17.0 m³/s) to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	75	68	68	68	96	92	153	173	61	111	36
2	93	72	68	68	68	100	95	181	167	59	81	33
3	93	74	68	66	68	98	91	192	157	60	92	37
4	87	76	68	60	68	90	87	204	153	60	67	37
5	83	78	68	56	68	88	85	227	145	61	62	38
6	81	80	68	60	68	92	87	259	149	59	61	36
7	80	80	68	64	68	98	87	304	147	59	59	33
8	84	78	68	66	68	100	85	353	153	57	55	31
9	87	76	68	68	68	102	84	409	150	54	58	38
10	90	72	68	68	68	104	87	494	141	51	54	38
11	91	70	68	68	68	103	87	481	122	51	52	38
12	88	70	68	68	68	102	87	454	115	51	52	40
13	83	74	68	68	68	102	88	445	106	52	52	42
14	83	74	68	68	68	108	93	398	104	52	54	41
15	84	70	68	68	68	112	94	377	100	53	50	42
16	80	75	68	68	68	118	88	363	103	61	51	50
17	76	75	68	68	68	120	88	349	100	71	53	51
18	79	74	68	68	68	110	92	337	102	68	52	50
19	79	75	68	68	68	107	99	308	100	71	53	50
20	79	69	68	68	68	100	104	291	97	90	51	49
21	78	78	68	68	68	93	99	266	87	119	49	47
22	78	73	68	68	68	94	93	239	83	92	48	44
23	76	71	68	68	68	93	94	219	81	90	45	48
24	78	70	68	68	70	90	103	206	70	86	43	46
25	78	70	68	68	72	90	113	194	67	82	42	46
26	76	70	68	68	74	92	139	189	66	72	38	45
27	72	70	68	68	78	93	143	180	62	67	38	42
28	74	68	68	68	86	92	123	182	62	63	40	42
29	80	68	68	68	-----	96	116	180	62	62	42	43
30	82	68	68	68	-----	93	122	181	60	59	36	45
31	80	-----	68	68	-----	96	-----	178	-----	105	34	-----
TOTAL	2,548	2,193	2,108	2,072	1,944	3,072	2,945	8,793	3,284	2,098	1,675	1,258
MEAN	82.2	73.1	68.0	66.8	69.4	99.1	98.2	284	109	67.7	54.0	41.9
MAX	96	80	68	68	86	120	143	494	173	119	111	51
MIN	72	68	68	56	68	88	84	153	60	51	34	31
AC-FT	5,050	4,350	4,180	4,110	3,860	6,090	5,840	17,440	6,510	4,160	3,320	2,500
CAL YR 1973	TOTAL 63,998		MEAN 175	MAX 1,280	MIN 60	AC-FT 126,900						
WTR YR 1974	TOTAL 33,990		MEAN 93.1	MAX 494	MIN 31	AC-FT 67,420						

PEAK DISCHARGE (BASE, 700 CFS). No peak above base

NOTE.--No gage-height record Jan. 10 to Mar. 18.

GREEN RIVER BASIN

63

09288900 Sowers Creek near Duchesne, Utah

LOCATION.--Lat 39°59'22", long 110°27'33", in SW¼SW¼NW¼ sec.4, T.6 S., R.5 W., Uintah meridian, Duchesne County, Ashley National Forest, on left bank 0.3 mile (0.5 km) upstream from Ashley National Forest boundary, 5 miles (8 km) upstream from mouth of Tabby Canyon, and 12 miles (19 km) south of Duchesne.

DRAINAGE AREA.--43 mi² (111 km²), approximately.

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

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 6,800 ft (2,073 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 4.06 ft³/s (0.115 m³/s), 2,940 acre-ft/yr (3.63 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 350 ft³/s (9.91 m³/s) July 24 (gage height, 6.59 ft or 2.009 m); minimum discharge, 0.27 ft³/s (0.007 m³/s) many days in Aug. and Sept.

Period of record: Maximum discharge, 350 ft³/s (9.91 m³/s) July 24, 1974 (gage height, 6.59 or 2.009 m), from rating curve extended above 35 ft³/s (0.99 m³/s); no flow for part of winter period 1964, 1965.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.6	1.8	1.6	1.6	2.5	2.9	1.7	1.3	.85	1.0	.39
2	5.3	4.8	2.1	1.6	1.6	2.8	2.6	1.5	1.3	.87	1.0	.39
3	5.1	4.9	2.0	1.6	1.6	3.1	2.8	1.7	1.4	.88	1.0	.39
4	5.0	5.3	1.9	1.6	1.6	3.2	2.9	1.6	1.3	.90	1.0	.39
5	5.0	6.3	1.8	1.6	1.6	3.3	2.5	1.5	1.3	.87	1.0	.32
6	4.9	4.4	1.7	1.6	1.6	3.8	2.4	1.8	1.3	.89	.70	.32
7	4.8	4.2	1.6	1.6	1.6	3.5	2.1	1.8	1.3	.87	.70	.32
8	4.9	3.8	1.6	1.6	1.6	3.6	2.5	1.7	1.4	.90	.70	.32
9	5.0	3.8	1.6	1.6	1.6	3.8	2.0	1.5	1.2	.88	.70	.32
10	5.3	3.8	1.6	1.6	1.6	4.1	2.1	1.5	1.2	.85	.70	.36
11	5.2	3.7	1.6	1.6	1.6	3.9	2.0	1.5	1.1	.85	.60	.37
12	5.0	3.8	1.6	1.6	1.6	4.1	2.2	1.5	1.1	.84	.60	.44
13	4.8	3.8	1.6	1.6	1.6	4.1	2.3	1.5	1.1	.84	.60	.47
14	4.8	3.8	1.6	1.6	1.6	3.9	1.9	1.5	1.1	.86	.60	.74
15	4.7	4.3	1.6	1.6	1.6	3.9	2.0	1.5	1.1	.96	.54	.58
16	4.7	4.4	1.6	1.6	1.6	3.8	1.8	1.4	1.0	.96	.54	.51
17	4.6	3.6	1.6	1.6	1.6	3.6	1.8	1.4	1.1	1.0	.54	.46
18	4.6	3.8	1.6	1.6	1.6	3.4	1.7	1.4	1.0	.95	.47	.45
19	4.6	3.8	1.6	1.6	1.6	3.1	1.8	1.4	.97	1.0	.47	.41
20	4.8	3.8	1.6	1.6	1.6	2.9	1.9	1.4	.94	3.2	.47	.39
21	4.8	3.8	1.6	1.6	1.8	2.9	1.6	1.4	.93	1.5	.47	.40
22	4.8	3.6	1.6	1.6	1.8	3.0	1.5	1.5	.94	1.2	.47	.40
23	4.8	3.4	1.6	1.6	1.8	2.6	1.5	1.5	.91	1.1	.54	.33
24	4.8	3.1	1.6	1.6	1.8	3.4	1.5	1.5	.91	37	.47	.32
25	4.8	2.8	1.6	1.6	1.8	2.8	1.5	1.4	.88	6.0	.47	.34
26	4.9	2.6	1.6	1.6	2.0	2.7	1.5	1.4	.87	5.5	.47	.34
27	4.8	2.4	1.6	1.6	2.0	2.7	1.7	1.3	.87	1.5	.47	.36
28	4.8	2.2	1.6	1.6	2.0	2.7	1.8	1.3	.90	1.5	.39	.40
29	4.7	2.0	1.6	1.6	-----	2.5	1.8	1.3	.85	1.5	.39	.44
30	4.7	1.8	1.6	1.6	-----	2.6	1.7	1.3	.88	1.5	.39	.44
31	4.7	-----	1.6	1.6	-----	2.5	-----	1.3	-----	1.5	.39	-----
TOTAL	151.1	112.4	51.3	49.6	47.0	100.8	60.3	46.2	32.45	80.02	18.85	12.11
MEAN	4.87	3.75	1.65	1.60	1.68	3.25	2.01	1.49	1.08	2.58	.61	.40
MAX	5.4	6.3	2.1	1.6	2.0	4.1	2.9	1.8	1.4	.37	1.0	.74
MIN	4.6	1.8	1.6	1.6	1.6	2.5	1.5	1.3	.85	.84	.39	.32
AC-FT	300	223	102	98	93	200	120	92	64	159	37	24

CAL YR 1973 TOTAL 2,898.71 MEAN 7.94 MAX 43 MIN .60 AC-FT 5,750
WTR YR 1974 TOTAL 762.13 MEAN 2.09 MAX 37 MIN .32 AC-FT 1,510

PEAK DISCHARGE (BASE, 35 CFS).--July 24 (1600) 350 cfs (6.59 ft).

NOTE:--No gage-height record Dec. 9 to Feb. 13.

GREEN RIVER BASIN

09289500 Lake Fork River above Moon Lake, near Mountain Home, Utah

LOCATION.--Lat 40°36'24", 110°31'35", in SW¼SE¼SE¼ sec.35, T.3 N., R.6 W., Uintah meridian, Duchesne County, Ashley National Forest on right bank 2,000 ft (610 m) upstream from head of Moon Lake at maximum stage, 2 miles (3 km) upstream from Brown Duck Creek, 16 miles (26 km) northeast of Mountain Home.

DRAINAGE AREA.--78 mi² (202 km²), approximately.

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955, October 1963 to September 1965 (published as Lake Fork above Moon Lake, near Mountain Home); October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft (2,493 m) from topographic map. April 1933 to September 1934, at site 2.5 miles (4.0 km) upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--24 years, 114 ft³/s (3.228 m³/s), 82,590 acre-ft/yr (102 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,100 ft³/s (31.2 m³/s) May 28 (gage height, 3.58 ft or 1.091 m) from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum recorded, 22 ft³/s (0.62 m³/s) Apr. 15.

Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) June 26, 1944 (gage height, 5.27 ft or 1.606 m, present datum), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily recorded, 13 ft³/s (0.37 m³/s) Apr. 14, 1933.

REMARKS.--Records fair except those for winter period and period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	43	32	27	23	23	23	51	589	152	72	43
2	62	41	33	27	23	23	23	65	582	146	79	43
3	61	42	33	27	23	23	23	66	560	142	80	44
4	59	44	32	27	23	23	23	70	503	127	69	43
5	59	43	32	27	23	23	23	90	459	121	65	43
6	57	44	32	27	23	23	23	125	336	117	61	43
7	54	42	31	27	23	23	23	167	277	111	60	42
8	54	43	31	27	23	23	23	223	224	104	58	41
9	56	42	30	27	23	23	23	303	236	101	60	41
10	57	41	30	27	23	23	23	381	273	95	58	41
11	56	40	30	27	23	23	23	350	340	88	55	41
12	56	40	30	27	23	24	23	352	403	83	54	42
13	56	39	30	27	23	25	23	354	437	78	52	42
14	60	38	30	27	23	26	23	305	455	73	52	42
15	60	41	30	27	23	26	23	299	418	74	52	42
16	56	40	30	25	23	27	24	310	385	84	51	42
17	52	39	30	25	23	27	24	323	362	82	50	41
18	51	38	30	25	23	25	26	311	339	95	48	41
19	50	38	30	25	23	24	28	323	335	145	50	40
20	49	37	30	25	23	23	28	263	352	140	47	40
21	48	35	29	25	23	23	27	221	303	107	47	39
22	47	35	29	25	23	23	29	216	271	101	47	39
23	46	35	29	25	23	23	34	229	254	107	46	39
24	45	35	29	25	23	23	41	281	241	97	47	39
25	46	35	29	25	23	23	50	443	231	93	46	38
26	43	35	28	25	23	23	59	603	219	81	46	38
27	43	35	28	25	23	23	50	796	200	84	45	38
28	45	35	28	25	23	23	44	877	182	83	43	38
29	43	35	28	25	-----	23	40	824	169	75	45	39
30	41	34	28	25	-----	23	40	650	163	71	44	38
31	42	-----	27	25	-----	23	-----	588	-----	71	43	-----
TOTAL	1,618	1,164	928	805	644	733	889	10,459	10,098	3,128	1,672	1,222
MEAN	52.2	38.8	29.9	26.0	23.0	23.6	29.6	337	337	101	53.9	40.7
MAX	64	44	33	27	23	27	59	877	589	152	80	44
MIN	41	34	27	25	23	23	23	51	163	71	43	38
AC-FT	3,210	2,310	1,840	1,600	1,280	1,450	1,760	20,750	20,030	6,200	3,320	2,420

CAL YR 1973 TOTAL 42,999 MEAN 118 MAX 839 MIN 26 AC-FT 85,290
WTR YR 1974 TOTAL 33,360 MEAN 91.4 MAX 877 MIN 23 AC-FT 66,170

PEAK DISCHARGE (BASE, 1,000 CFS).--May 28 (2100) 1,100 cfs (3.58 ft).

NOTE:--No gage-height record Dec. 22 to Apr. 14.

09290500 Moon Lake Reservoir near Mountain Home, Utah

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¼NE¼NE¼ sec.19, T.2 N., R.5 W., Uintah meridian, Duchesne County, Ashley National Forest, at dam on Lake Fork River, 1.5 miles (2.4 km) downstream from Brown Duck Creek, 11 miles (18 km) upstream from Yellowstone River, and 12.5 miles (20.1 km) northwest of Mountain Home.

DRAINAGE AREA.--108 sq mi (280 km²).

PERIOD OF RECORD.--December 1937 to current year.

GAGE.--Nonrecording gage usually read one or two times daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 33,240 acre-ft (41.0 hm³) June 5, 6 (elevation, 8,133.70 ft or 2,479.152 m); minimum observed, 1,080 acre-ft (1.33 hm³) Sept. 4.

Period of record: Maximum contents observed, 37,560 acre-ft (46.3 hm³) July 10, 11, 1950 (elevation, 8,139.30 ft or 2,480.859 m); minimum observed, 226 acre-ft (279,000 m³) Sept. 30, 1946.

REMARKS.--Reservoir formed by earth-fill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft (44.1 hm³) between elevations 8,072.00 ft (2,460.346 m) (crest of original outlet of lake, about 2,000 ft or 610 m upstream from dam) and 8,137.00 ft (2,480.158 m) (top of spillway gates). Elevation of spillway crest is 8,121.00 ft (2,475.281 m) and elevation of sill of outlet works is 8,064.16 ft (2,457.956 m). Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft (2.53 hm³). Dead storage below sill of outlet, 11,690 acre-ft (14.4 hm³). Total dead storage, 13,740 acre-ft (16.9 hm³). Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Gage-height record furnished by Moon Lake Water Users Association.

Capacity table (elevation in feet,
and contents, in acre-feet)
(Based on latest capacity table
furnished by Bureau of Reclamation)

8,075	856	8,110	17,130
8,080	2,460	8,120	23,470
8,085	4,320	8,130	30,490
8,090	6,490	8,137	35,760
8,100	11,470		

CONTENTS, IN ACRE-Feet, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,670	15,600		20,630				25,790	31,520			
2						24,280			33,020	26,620		
3									32,640	26,130		
4									33,090	25,440	10,470	1,080
5									33,240	24,820	10,050	
6	16,420								33,240	24,140	9,540	
7								25,030	33,020	22,810	9,240	
8								25,270	32,640	22,150	8,390	
9								25,720	32,300	21,460		
10								25,860	32,040	20,790		
11								26,620	31,820	20,150	6,810	1,320
12								27,080	31,740		6,170	
13								27,180	31,740	19,520		
14								27,280		18,650		
15	14,840							27,280	32,120	18,040		1,410
16								27,420	32,080	17,550		
17								27,460	32,040	17,130	3,660	
18							26,200		31,860	16,770	3,210	
19								27,460			2,880	
20								27,180	31,600	15,950	2,670	1,260
21									31,480	15,680	2,330	
22									31,220		2,030	
23											1,860	
24							26,200					
25	14,900							25,170			1,350	
26								25,300	30,120	14,020	1,220	
27								26,060	29,580	13,210	1,160	1,340
28					a24,170			28,030	29,360	13,100		
29					-----				29,140	12,660	1,160	1,350
30		18,250			-----		25,930		28,240	12,360		a1,350
31	a15,500	-----	a20,560	22,640	-----	25,400	-----	30,960	-----	12,170	1,160	-----
(†)	-----	8,111.85	-----	8,118.75	-----	8,122.85	8,123.60	8,130.65	8,126.90	8,101.30	8,076.00	-----
(‡)	-2,470	+2,750	-----	+2,080	+1,530	+1,230	+530	+5,030	-2,720	-16,070	-11,010	+190

CAL YR 1973. † +6,360
WTR YR 1974. ‡ -16,620

† Elevation, in feet at end of month

‡ Change in contents, in acre-feet.

a No gage-height reading; contents interpolated.

09291000 Lake Fork River below Moon Lake, near Mountain Home, Utah

LOCATION.--Lat 40°33'23", long 110°29'02", in SW¼SW¼NW¼ sec.20, T.2 N., R.5 W., Uintah meridian, Duchesne County, Ashley National Forest, on right bank 2,000 ft (610 m) downstream from Moon Lake Dam, 2 miles (3 km) downstream from Brown Duck Creek, and 12 miles (19 km) northwest of Mountain Home.

DRAINAGE AREA.--110 mi² (285 km²) approximately.

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34 and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft (2,429 m) by barometer. Prior to April 1942, at damsite 2,000 ft (610 m) upstream at different datum.

AVERAGE DISCHARGE.--32 years (1942-1974), 128 ft³/s (3,625 m³/s) 92,740 acre-ft/yr (114 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 555 ft³/s (15.7 m³/s) May 21, 22, 23 (gage height, 3.00 ft or 0.914 m); no flow at times when reservoir gates were closed.

Period of record: Maximum discharge recorded, 2,180 ft³/s (61.7 m³/s) June 19, 1949, from rating curve extended above 860 ft³/s (24.4 m³/s); maximum gage height, 5.46 ft (1.664 m) June 26, 1944; no flow at times when reservoir gates were closed.

REMARKS.--Records good, except those for period of no gage-height record which are fair. Flow regulated by Moon Lake Reservoir (see sta 09290500). No diversion above station.

REVISIONS (WATER YEARS).--WSP 1313: 1930 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	6.7			0	2.0	7.2	144	354	474	277	60
2	231	0			0	2.0	7.2	192	357	471	274	60
3	194	0			0	2.0	7.3	191	359	470	274	60
4	195	0			0	2.0	7.3	189	351	470	271	55
5	194	0			0	2.0	7.3	188	413	470	279	33
6	176	0			0	3.0	7.3	188	438	470	352	25
7	164	0			0	3.0	7.3	240	435	470	347	25
8	163	0			0	3.0	7.3	195	433	470	344	25
9	163	0			0	3.0	7.3	253	430	470	339	25
10	163	0			0	3.0	7.3	208	427	470	334	25
11	163	0			0	4.0	7.3	198	421	470	335	25
12	163	0			0	4.0	7.3	258	419	470	331	25
13	163	0			0	4.0	7.3	315	417	470	325	25
14	163	0			0	4.0	7.3	349	316	470	320	25
15	134	0			0	4.0	7.3	359	369	450	315	36
16	38	0			0	5.0	7.3	392	408	325	310	45
17	39	0			0	5.0	7.4	393	408	324	307	46
18	39	0			0	5.0	26	391	403	324	302	45
19	39	0			0	5.0	29	422	405	321	204	45
20	39	0			0	5.0	14	478	398	317	203	45
21	39	0			0	6.0	14	535	397	285	203	45
22	39	0			0	6.0	17	540	392	290	204	40
23	39	0			0	6.0	32	535	391	288	175	25
24	36	0			0	6.0	32	535	384	287	155	25
25	21	0			0	6.0	48	528	383	287	154	25
26	21	0			0	7.0	44	392	400	286	130	25
27	21	0			0	7.0	45	290	411	283	82	26
28	21	0			1.0	7.0	67	215	407	282	60	26
29	21	0			-----	7.0	107	221	412	278	60	26
30	21	0			-----	7.0	131	224	453	243	60	26
31	20	-----			-----	7.0	-----	288	-----	243	60	-----
TOTAL	3,163	6.7	0	0	1.0	142.0	730.0	9,845	11,991	11,698	7,386	1,044
MEAN	102	.22	0	0	.036	4.58	24.3	318	400	377	238	34.8
MAX	241	6.7	0	0	1.0	7.0	131	540	453	474	352	60
MIN	20	0	0	0	0	2.0	7.2	144	316	243	60	25
AC-FT	6,270	13	0	0	2.0	282	1,450	19,530	23,780	23,200	14,650	2,070
CAL YR 1973	TOTAL 46,508.70	MEAN 127	MAX 1,070	MIN 0	AC-FT 92,250							
WTR YR 1974	TOTAL 46,007.70	MEAN 126	MAX 540	MIN 0	AC-FT 91,260							

NOTE:--No gage-height record Feb. 28 to Apr. 15.

GREEN RIVER BASIN

67

09292500 Yellowstone River near Altonah, Utah

LOCATION.--Lat 40°30'43", long 110°20'27", in SW¼SW¼NE¼ sec.4, T.1 N., R.4 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1.5 miles (2.4 km) downstream from powerplant of Moon Lake Electric Association, Inc., 2 miles (3 km) downstream from Hell Canyon, 8.2 miles (13.2 km) northwest of Altonah.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

GAGE.--Water-stage recorder. Altitude of gage is 7,430 ft (2,265 m) from river-profile map.

AVERAGE DISCHARGE.--30 years, 140 ft³/s (3.965 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 655 ft³/s (18.5 m³/s) May 26 (gage height, 2.45 ft or 0.747 m); minimum not determined, occurred during winter period.

Period of record: Maximum discharge, 1,880 ft³/s (53.2 m³/s) June 19, 1949 (gage height, 4.55 ft or 1.387 m); minimum observed, 26 ft³/s (0.74 m³/s) Feb. 24, 1960 (discharge measurement), result of freezeup.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Some diurnal fluctuation caused by powerplant 1.5 miles (2.4 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	83	71	60	50	48	54	135	341	124	123	64
2	111	82	71	59	50	49	55	150	328	135	134	64
3	109	84	69	59	50	50	56	160	330	139	158	64
4	108	82	69	59	50	53	55	180	304	130	132	64
5	109	93	68	58	50	54	54	200	293	126	119	64
6	105	88	67	58	50	52	55	230	238	126	115	62
7	100	85	66	58	49	51	54	250	209	142	113	62
8	99	86	66	58	49	50	53	300	190	143	108	62
9	110	82	65	58	49	51	54	374	187	142	108	61
10	110	82	64	57	49	53	56	439	194	137	104	61
11	107	81	64	57	49	55	58	383	216	135	100	62
12	106	80	63	57	49	57	58	364	233	131	97	62
13	104	79	63	57	48	58	57	343	242	127	92	63
14	107	79	63	57	48	59	58	300	250	125	90	64
15	109	70	63	57	48	60	56	285	232	128	88	64
16	106	77	63	56	48	62	58	300	217	145	82	63
17	102	76	63	56	48	64	60	314	215	141	75	63
18	98	76	63	54	48	61	62	273	203	138	74	62
19	96	74	60	53	48	58	65	272	197	202	74	61
20	94	74	59	52	49	55	70	229	199	213	72	61
21	90	75	61	51	47	53	76	198	190	174	70	61
22	90	75	62	50	47	54	84	200	175	155	70	60
23	90	74	60	52	46	52	92	204	163	159	69	60
24	86	74	58	49	45	50	106	228	156	151	68	61
25	87	74	56	50	46	52	120	354	150	159	69	60
26	84	74	57	50	47	54	130	449	146	145	68	60
27	83	74	60	50	48	54	115	517	141	143	66	59
28	84	74	61	50	48	54	100	505	133	139	66	60
29	86	74	60	50	-----	53	110	502	129	130	66	60
30	80	74	60	50	-----	54	120	417	125	124	66	60
31	81	-----	60	50	-----	54	-----	359	-----	123	64	-----
TOTAL	3,047	2,355	1,955	1,692	1,353	1,684	2,201	9,414	6,326	4,431	2,800	1,854
MEAN	98.3	78.5	63.1	54.6	48.3	54.3	73.4	304	211	143	90.3	61.8
MAX	116	93	71	60	50	64	130	517	341	213	158	64
MIN	80	70	56	49	45	48	53	135	125	123	64	59
AC-FT	6,040	4,670	3,880	3,360	2,680	3,340	4,370	18,670	12,550	8,790	5,550	3,680

CAL YR 1973 TOTAL 61,502 MEAN 168 MAX 972 MIN 41 AC-FT 122,000

WTR YR 1974 TOTAL 39,112 MEAN 107 MAX 517 MIN 45 AC-FT 77,580

PEAK DISCHARGE (BASE, 700 CFS). No peak above base.

NOTE: No gage-height record Jan. 2 to May 7.

GREEN RIVER BASIN

09295000 Duchesne River at Myton, Utah

LOCATION.—Lat 40°12'01", long 110°03'47", in NE¼NW¼NW¼ sec.25, T.3 S., R.2 W., Uintah meridian, Duchesne County, on left bank at Myton, 3 miles (5 km) downstream from Lake Fork.

DRAINAGE AREA.—2,750 mi² (7,120 km²), approximately.

PERIOD OF RECORD.—October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

GAGE.—Water-stage recorder. Datum of gage is 5,061.40 ft (1,542.715 m) above mean sea level. Prior to Oct. 14, 1933, nonrecording gages at several sites within half a mile (0.8 km) of present site at various datums.

AVERAGE DISCHARGE.—66 years (1899-1902, 1911-74), 530 ft³/s (15.01 m³/s), 384,000 acre-ft/yr (473 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 2,940 ft³/s (83.3 m³/s) May 29 (gage height, 5.75 ft or 1.753 m); minimum, 15 ft³/s (0.42 m³/s) Sept. 28.

Period of record: Maximum discharge observed, 12,800 ft³/s (362 m³/s) June 10, 1922 (gage height, 7.94 ft or 2.420 m, site and datum then in use), from rating curve extended above 8,000 ft³/s (227 m³/s); minimum, less than 1 ft³/s (0.028 m³/s) July 16, 1931, and for several days in August and September 1934.

REMARKS.—Records good except those for winter period, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to The Great Basin through Duchesne and Strawberry tunnels, Hobbie Creek ditch, and Strawberry River and Willow Creek ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	40	327	330	435	520	377	206	1,900	104	195	36
2	187	56	327	330	435	540	371	193	1,860	127	196	41
3	195	86	298	330	435	560	331	207	1,830	150	198	64
4	186	100	289	330	435	580	314	224	1,660	145	198	53
5	156	94	282	330	435	590	342	222	1,560	134	170	56
6	144	114	265	335	435	594	119	244	1,500	136	174	42
7	140	124	270	340	435	599	70	328	1,210	138	184	35
8	123	256	275	350	435	603	67	393	1,000	131	175	47
9	131	253	285	360	435	607	160	558	787	135	164	41
10	164	248	295	370	435	608	162	796	671	144	157	37
11	155	247	305	380	435	609	162	913	623	137	157	50
12	159	245	320	385	430	610	280	873	746	138	129	38
13	231	247	345	390	430	615	288	883	1,000	114	122	37
14	182	240	360	395	430	620	284	904	1,260	101	130	53
15	181	244	370	400	425	625	293	1,010	1,150	99	112	58
16	170	294	385	405	425	640	401	1,040	1,060	119	100	86
17	142	312	390	410	425	625	402	1,110	981	142	95	57
18	152	312	395	415	425	600	405	1,140	881	160	93	49
19	198	316	400	420	425	550	398	1,190	745	143	267	47
20	257	305	400	420	425	520	360	1,160	676	171	274	38
21	242	289	400	425	425	490	361	994	593	231	265	35
22	246	256	400	430	430	460	355	818	492	182	266	40
23	254	245	400	430	435	440	341	730	396	181	265	37
24	247	253	400	435	440	425	262	735	306	193	205	40
25	128	253	400	435	450	420	241	857	264	185	195	35
26	108	247	400	435	460	421	232	1,180	199	164	109	35
27	106	296	395	435	480	418	240	1,810	181	156	53	23
28	96	295	385	435	500	397	223	2,480	157	188	42	17
29	103	306	370	435	-----	396	205	2,600	124	182	43	25
30	81	319	360	435	-----	385	185	2,490	104	168	37	27
31	40	-----	340	435	-----	381	-----	2,080	-----	196	35	-----
TOTAL	5,074	6,892	10,833	12,190	12,245	16,448	8,231	30,368	25,916	4,694	4,805	1,279
MEAN	164	230	349	393	437	531	274	980	864	151	155	42.6
MAX	257	319	400	435	500	640	405	2,600	1,900	231	274	86
MIN	40	40	265	330	425	381	67	193	104	99	35	17
AC-FT	10,060	13,670	21,490	24,180	24,290	32,620	16,330	60,230	51,400	9,310	9,530	2,540
CAL YR 1973	TOTAL	179,256	MEAN	491	MAX	4,350	MIN	39	AC-FT	355,600		
WTR YR 1974	TOTAL	138,975	MEAN	381	MAX	2,600	MIN	17	AC-FT	275,700		

09297000 Uinta River near Neola, Utah

LOCATION.--Lat 40°32'08", long 110°03'46", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.2 N., R.2 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1,000 ft (305 m) downstream from Uinta Power & Light Co. powerplant, 0.8 mile (1.3 km) upstream from Pole Creek, and 7 miles (11 km) north of Neola.

DRAINAGE AREA.--160 mi² (414 km²), approximately.

PERIOD OF RECORD.--July 1921 to September 1927 (no winter records 1922-25, 1927) September 1929 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,910 ft (2,106 m) from river-profile map. Prior to Aug. 4, 1951, water-stage recorder, or nonrecording gages at several sites within 2,000 ft (610 m) of present site at various datums. Aug. 4, 1951, to June 11, 1965, water-stage recorder at site 50 ft (15 m) upstream at various datums.

AVERAGE DISCHARGE.--46 years (1925-26, 1929-74), 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (161 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 509 ft³/s (14.4 m³/s) May 10 (gage height, 3.71 ft or 1.131 m); minimum recorded, 14 ft³/s (0.40 m³/s) Jan. 14, result of freezeup or powerplant regulation.

Period of record: Maximum discharge, about 5,000 ft³/s (142 m³/s) June 11, 1965 (gage height, 7.00 ft or 2.134 m, from floodmarks, site and datum then in use), from rating curve extended above 1,200 ft³/s (34.0 m³/s); minimum recorded, 14 ft³/s (0.40 m³/s) Jan. 14, 1974, result of freezeup or powerplant regulation.

REMARKS.--Records good. Summer flow slightly regulated by storage in several small mountain lakes and reservoirs. Water diverted from Pole Creek and Uinta River, and used at Uinta Power & Light Co. powerplant, enters river about 1,000 ft (305 m) above station. Uinta power canal diverts from river 6 miles (10 km) above station. Enlargement of canal completed in August 1944. Flow through canal increased Oct. 12, 13, 1944, and held nearly constant thereafter. Power canal and Pole Creek diversion feed to common forebay. Water not used through powerplant wastes through spillway of forebay at penstock intake and enters river a short distance above station. Prior to Nov. 18, 1948, spill entered river 0.5 mile (0.8 km) below station. Considerable spill occurs at times when one of two power units is not operating. Discharge measurements, in cubic feet per second, during the water year 1974, of Pole Creek Canal are as follows:

Oct. 3	9.8	May 21	5.6
Nov. 8	8.9	June 4	5.7
Dec. 6	10	July 11	3.7
Mar. 26	4.5	Aug. 13	4.5
Apr. 23	4.2	Sept. 12	1.0

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	100	88	70	60	60	52	70	313	192	184	95
2	139	93	88	70	59	62	57	87	309	203	179	95
3	139	104	74	70	60	59	51	102	312	204	221	92
4	136	99	75	70	61	59	48	104	295	192	197	92
5	139	95	74	70	62	60	52	105	295	182	171	92
6	135	105	73	70	62	56	53	141	254	174	160	90
7	135	101	75	70	62	56	50	194	224	172	161	88
8	132	101	75	70	62	56	48	300	199	166	155	85
9	146	100	69	70	62	59	52	402	201	165	154	88
10	147	101	69	70	62	63	54	445	192	147	145	90
11	146	99	71	70	62	63	54	404	206	141	140	85
12	146	101	72	70	63	63	54	387	247	136	132	82
13	141	99	75	71	63	66	50	353	266	131	129	84
14	139	94	75	50	63	67	53	312	278	133	130	84
15	147	81	71	75	63	70	50	298	271	134	126	87
16	149	94	73	67	62	72	55	309	258	163	122	84
17	139	89	72	66	63	71	53	310	256	181	123	85
18	135	91	73	65	63	73	57	274	250	183	118	86
19	127	90	72	64	61	61	60	265	251	296	119	79
20	122	81	71	65	62	58	62	222	255	266	115	80
21	118	89	71	66	62	53	57	195	249	243	109	77
22	115	73	73	61	60	55	56	194	235	223	112	79
23	113	85	73	60	61	56	59	199	232	213	106	72
24	106	78	70	60	59	51	65	208	240	222	103	75
25	107	78	70	60	59	55	72	262	234	216	106	82
26	106	78	70	60	59	56	81	335	229	206	106	83
27	102	80	70	60	58	56	75	414	214	193	100	74
28	106	77	70	60	58	55	68	397	202	199	95	72
29	105	78	71	60	-----	53	66	402	196	189	98	72
30	97	82	70	60	-----	56	65	359	192	181	98	72
31	101	-----	70	60	-----	56	-----	329	-----	181	95	-----
TOTAL	3,963	2,716	2,263	2,030	1,713	1,856	1,729	8,379	7,355	5,827	4,109	2,501
MEAN	128	90.5	73.0	65.5	61.2	59.9	57.6	270	245	188	133	83.4
MAX	149	105	88	75	63	73	81	445	313	296	221	95
MIN	97	73	69	50	58	51	48	70	192	131	95	72
AC-FT	7,860	5,390	4,490	4,030	3,400	3,680	3,430	16,620	14,590	11,560	8,150	4,960

CAL YR 1973 TOTAL 83,541 MEAN 229 MAX 1,640 MIN 50 AC-FT 165,700
WTR YR 1974 TOTAL 44,441 MEAN 122 MAX 446 MIN 48 AC-FT 88,150

PEAK DISCHARGE (BASE, 700 CFS). No peak above base.

GREEN RIVER BASIN

09298000 Farm Creek near Whiterocks, Utah

LOCATION.--Lat 40°34'03", long 109°57'39", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.2 N., R.1 W., Uintah meridian, Uintah County, Ashley National Forest, on right bank 0.7 mile (1.1 km) upstream from Hominy Creek and 7 miles (11 km) northwest of Whiterocks.

DRAINAGE AREA.--14.9 sq mi (38.6 km²).

PERIOD OF RECORD.--July 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,040 ft (2,146 m) by barometer.

AVERAGE DISCHARGE.--25 years, 6.14 ft³/s (0.174 m³/s), 4,450 acre-ft/yr (5.49 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 25 ft³/s (0.708 m³/s) May 8 (gage height, 2.42 ft or 0.738 m); minimum, 2.4 ft³/s (0.068 m³/s) Apr. 6.

Period of record: Maximum discharge, 350 ft³/s (9.91 m³/s) June 3, 1968 (gage height, 3.95 ft or 1.204 m), from rating curve extended above 140 ft³/s (3.96 m³/s); minimum, 1.2 ft³/s (0.034 m³/s) Apr. 2, 1965.

REMARKS.--Records good.

REVISIONS.--WSP 2125: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.2	3.4	3.4	3.2	3.1	3.1	2.9	4.0	3.2	2.9	2.8
2	3.4	3.3	3.7	3.4	3.2	3.2	2.9	3.0	4.0	3.2	3.0	2.8
3	3.4	3.3	3.6	3.4	3.2	3.0	2.8	3.0	4.0	3.2	3.0	3.0
4	3.4	3.2	3.6	3.4	3.2	3.0	2.8	3.0	3.8	3.2	2.9	2.8
5	3.4	3.2	3.6	3.4	3.2	3.0	2.8	3.0	3.8	3.1	2.8	2.8
6	3.4	3.2	3.6	3.4	3.2	3.0	2.8	3.1	3.8	3.1	2.8	2.8
7	3.4	3.2	3.6	3.4	3.1	3.0	2.8	4.8	3.8	3.1	2.8	2.8
8	3.4	3.3	3.6	3.4	3.0	3.0	2.8	16	3.8	3.0	2.8	2.8
9	3.6	3.2	3.6	3.4	3.0	3.0	2.8	17	3.8	3.0	2.9	2.8
10	3.6	3.2	3.6	3.4	3.0	3.1	2.9	16	3.7	3.0	2.8	2.8
11	3.4	3.2	3.6	3.4	3.0	3.1	2.9	11	3.6	3.0	2.8	2.8
12	3.4	3.2	3.6	3.2	3.1	3.1	2.8	9.5	3.6	3.1	2.8	2.8
13	3.4	3.4	3.6	3.2	3.1	3.1	2.8	8.9	3.6	3.0	2.8	2.6
14	3.4	3.4	3.6	3.2	3.0	3.2	2.8	7.8	3.6	3.0	2.8	2.6
15	3.4	3.4	3.6	3.2	3.0	3.2	2.8	7.2	3.6	3.0	2.8	2.6
16	3.4	3.4	3.6	3.2	3.1	3.2	2.6	6.8	3.6	3.0	2.8	2.6
17	3.4	3.4	3.6	3.2	3.2	3.2	2.6	6.7	3.5	3.0	2.8	2.6
18	3.4	3.4	3.6	3.2	3.0	3.2	2.7	6.5	3.5	3.0	2.8	2.6
19	3.4	3.4	3.6	3.2	3.1	3.2	2.8	6.3	3.4	2.9	2.8	2.6
20	3.4	3.4	3.6	3.3	3.0	3.1	2.9	5.9	3.4	3.0	2.8	2.6
21	3.4	3.4	3.6	3.2	3.0	3.0	2.6	5.5	3.4	2.9	2.8	2.6
22	3.2	3.4	3.6	3.2	3.0	3.0	2.6	5.4	3.4	3.0	2.8	2.6
23	3.2	3.4	3.6	3.2	3.0	3.0	2.8	5.2	3.3	2.9	2.8	2.6
24	3.2	3.4	3.6	3.2	3.0	3.0	2.8	5.0	3.3	3.0	2.7	2.6
25	3.2	3.4	3.6	3.2	3.0	3.0	2.9	5.0	3.3	2.9	2.7	2.6
26	3.2	3.4	3.6	3.2	3.0	3.0	2.9	4.8	3.3	2.9	2.7	2.6
27	3.2	3.4	3.4	3.2	3.0	3.0	2.9	4.8	3.2	2.8	2.7	2.6
28	3.2	3.4	3.5	3.2	3.0	3.0	2.9	4.6	3.2	3.0	3.0	2.7
29	3.2	3.4	3.5	3.2	-----	3.0	2.9	4.4	3.2	3.0	3.0	2.6
30	3.2	3.5	3.4	3.2	-----	3.0	2.8	4.3	3.2	2.9	2.8	2.7
31	3.2	-----	3.4	3.2	-----	3.1	-----	4.2	-----	3.1	2.8	-----
TOTAL	103.8	100.0	110.7	101.5	85.9	95.1	84.3	201.6	106.7	93.5	87.5	80.8
MEAN	3.35	3.33	3.57	3.27	3.07	3.07	2.81	6.50	3.56	3.02	2.82	2.69
MAX	3.6	3.5	3.7	3.4	3.2	3.2	3.1	17	4.0	3.2	3.0	3.0
MIN	3.2	3.2	3.4	3.2	3.0	3.0	2.6	2.9	3.2	2.8	2.7	2.6
AC-FT	206	198	220	201	170	189	167	400	212	185	174	160

CAL YR 1973 TOTAL 3,383.6 MEAN 9.27 MAX 189 MIN 2.3 AC-FT 6,710
WTR YR 1974 TOTAL 1,251.4 MEAN 3.43 MAX 17 MIN 2.6 AC-FT 2,480

PEAK DISCHARGE (BASE, 20 CFS).--May 8 (2,300) 25 cfs (2.42 ft).

GREEN RIVER BASIN

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09299500 Whiterocks River near Whiterocks, Utah

LOCATION.--Lat 40°33'54", long 109°55'37", in SE¼SE¼SW¼ sec.18, T.2 N., R.1 E., Uintah meridian, Uintah County, on left bank 0.8 mile (1.3 km) upstream from heading of United States Whiterocks Canal, and 6.5 miles (10.5 km) north of Whiterocks.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year.

Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899 and as Whiterocks Creek near Whiterocks, 1918-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Altitude of gage is 6,980 ft (2,128 m) from river-profile map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 1 mile (2 km) of present site at various datums. Oct. 16, 1930, to Nov. 7, 1949, water-stage recorder at site 100 ft (30 m) downstream at different datum.

AVERAGE DISCHARGE.--67 years (1899-1903, 1908-10, 1913-74), 124 ft³/s (3.51 m³/s), 89,840 acre-ft/yr (111 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) May 9 (gage height, 4.31 ft or 1.314 m); minimum discharge recorded, 14 ft³/s (0.40 m³/s) Mar. 20, result of discharge measurement.

Period of record: Maximum discharge, 2,750 ft³/s (77.9 m³/s) June 20, 21, 1922 (gage height, 5.40 ft or 1.646 m), site and datum then in use), from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum recorded, 10 ft³/s (0.28 m³/s) Dec. 5, 1933.

REMARKS.--Records good except those for May and June, which are fair and those for winter periods, which are poor. Flow slightly regulated by small mountain lakes. One small diversion 2 miles (3 km) above station for irrigation of about 100 acres (0.40 km²) lying both above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	46	37	31	29	28	24	82	141	103	73	70
2	75	44	37	31	29	28	28	97	156	104	71	69
3	74	49	37	31	29	28	25	115	157	103	76	66
4	71	48	37	31	29	28	27	116	149	96	72	65
5	65	49	37	31	29	28	26	140	151	97	68	64
6	64	50	36	31	29	28	26	210	159	97	66	62
7	62	52	36	31	29	28	23	296	147	98	64	61
8	62	52	36	31	29	27	23	490	146	97	63	60
9	68	50	36	31	29	27	26	761	146	96	65	57
10	68	50	36	31	29	27	26	742	135	87	63	51
11	65	48	35	31	29	26	25	400	124	82	61	50
12	62	48	35	31	29	26	26	362	121	81	55	56
13	61	47	35	31	29	27	23	300	121	80	54	57
14	68	45	35	31	29	26	23	223	122	76	53	53
15	63	40	35	31	29	26	24	216	147	78	51	52
16	58	46	34	30	28	26	26	223	148	83	51	50
17	55	44	34	30	28	26	23	192	149	93	50	49
18	54	44	34	30	28	27	24	164	144	88	49	48
19	53	43	34	30	28	25	24	166	138	108	49	47
20	52	42	34	30	28	29	25	130	134	95	57	47
21	51	41	33	30	28	27	23	119	132	93	60	47
22	50	40	33	30	28	29	25	122	127	86	59	46
23	50	40	33	30	28	28	26	116	121	78	59	46
24	47	40	33	30	28	24	28	112	118	86	64	46
25	49	39	33	30	28	28	34	120	111	79	64	45
26	51	38	32	30	28	26	42	147	108	81	64	45
27	50	38	32	30	28	26	39	184	105	74	59	54
28	48	38	32	30	28	26	34	180	106	74	58	50
29	47	38	32	30	-----	25	35	160	100	71	58	45
30	46	38	32	30	-----	27	36	152	102	67	68	43
31	48	-----	32	30	-----	26	-----	135	-----	71	71	-----
TOTAL	1,814	1,327	1,067	945	799	833	819	6,972	3,965	2,702	1,895	1,601
MEAN	58.5	44.2	34.4	30.5	28.5	26.9	27.3	225	132	87.2	61.1	53.4
MAX	77	52	37	31	29	29	42	761	159	108	76	70
MIN	46	38	32	30	28	24	23	82	100	67	49	43
AC-FT	3,600	2,630	2,120	1,870	1,580	1,650	1,620	13,830	7,860	5,360	3,760	3,180

CAL YR 1973 TOTAL 54,165 MEAN 148 MAX 1,210 MIN 23 AC-FT 107,400
WTR YR 1974 TOTAL 24,739 MEAN 67.8 MAX 761 MIN 23 AC-FT 49,070

PEAK DISCHARGE (BASE, 600 CFS).--May 9 (2300) 1,410 cfs (4.31 ft).

09302000 Duchesne River near Randlett, Utah

LOCATION.--Lat 40°12'57", long 109°47'05", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.3 S., R.2 E., Uintah meridian, Uintah County, on right bank 0.2 mile (0.3 km) downstream from Uinta River, 1.2 miles (1.9 km) southeast of Randlett, and 6.5 miles (10.5 km) southeast of Fort Duchesne.

DRAINAGE AREA.--3,920 mi² (10,150 km²), approximately.

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,758.0 ft (1,450.238 m) above mean sea level. Prior to Aug. 23, 1944, water-stage recorder at site 600 ft (183 m) downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964, and June 7, 1968 to Aug. 31, 1970, at site 100 ft (30 m) downstream at datum 0.36 ft (0.110 m) lower. Sept. 5, 1964 to June 6, 1968, at site 400 ft (120 m) upstream at datum 0.55 ft (0.168 m) lower.

AVERAGE DISCHARGE.--32 years, 592 ft³/s (16.77 m³/s), 428,900 acre-ft/yr (529 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) May 29 (gage height, 5.79 ft or 1.765 m); maximum gage height, 5.94 ft (1.811 m) Dec. 20 (backwater from ice); minimum discharge, 51 ft³/s (1.44 m³/s) Sept. 10, 11.
Period of record: Maximum discharge, 10,300 ft³/s (292 m³/s) June 13, 1965 (gage height, 8.33 ft or 2.539 m) site and datum then in use; maximum gage height, 9.03 ft (2.752 m) Feb. 13, 1962, site and datum then in use (backwater from ice); minimum discharge, 2.2 ft³/s (0.062 m³/s) Aug. 12, 1961.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to The Great Basin through Duchesne and Strawberry tunnels, Hobbie Creek ditch, and Strawberry River and Willow Creek ditch. Records of chemical analysis and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	163	525	400	510	620	469	222	1,860	132	278	61
2	352	156	515	390	510	640	472	218	1,820	125	270	61
3	339	220	500	390	510	650	471	211	1,780	160	278	69
4	346	297	460	390	500	660	410	239	1,660	192	290	95
5	303	286	400	390	500	670	426	253	1,520	171	258	74
6	280	275	360	395	500	680	296	259	1,540	152	226	72
7	253	290	370	400	490	690	143	363	1,290	174	239	58
8	267	442	380	410	480	700	125	466	1,110	162	232	65
9	286	567	395	415	480	710	156	618	939	168	235	77
10	393	514	410	420	480	720	239	849	818	162	225	61
11	409	471	420	430	480	740	218	926	723	162	227	53
12	392	456	430	440	480	760	300	873	807	171	197	64
13	459	442	440	450	480	768	355	891	956	165	185	54
14	401	431	450	455	480	808	365	915	1,320	149	201	68
15	352	420	460	460	480	840	400	1,000	1,180	165	187	94
16	337	471	465	465	480	872	420	999	1,140	211	168	111
17	314	505	470	470	480	872	420	1,100	1,050	236	170	146
18	298	514	475	480	480	824	420	1,160	997	236	158	103
19	330	550	480	490	480	730	390	1,210	872	239	268	88
20	430	532	480	500	480	657	370	1,210	787	246	351	85
21	409	508	480	500	480	615	370	1,090	722	335	342	74
22	386	457	480	500	490	582	360	929	653	299	341	78
23	390	435	480	500	500	570	340	836	546	274	343	78
24	393	468	480	510	520	563	320	815	421	286	289	75
25	306	462	475	510	530	544	292	867	356	290	279	77
26	240	474	465	510	550	532	277	1,120	275	250	194	71
27	219	490	455	510	570	465	267	1,620	209	246	129	65
28	221	500	450	510	590	502	262	2,300	174	258	80	71
29	224	520	440	510	-----	499	247	2,510	137	258	68	71
30	219	530	430	510	-----	489	217	2,450	128	239	61	88
31	175	-----	415	510	-----	478	-----	2,070	-----	262	63	-----
TOTAL	10,094	12,846	13,935	14,220	13,990	20,450	9,817	30,590	27,790	6,575	6,832	2,307
MEAN	326	428	450	459	500	660	327	987	926	212	220	76.9
MAX	459	567	525	510	590	872	472	2,510	1,860	335	351	146
MIN	175	156	360	390	480	465	125	211	128	125	61	53
AC-FT	20,020	25,480	27,640	28,210	27,750	40,560	19,470	60,680	55,120	13,040	13,550	4,580
CAL YR 1973	TOTAL	285,429	MEAN	782	MAX	4,700	MIN	81	AC-FT	566,100		
WTR YR 1974	TOTAL	169,446	MEAN	464	MAX	2,510	MIN	53	AC-FT	336,100		

09306500 White River near Watson, Utah

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec.2, T.10 S., R.24 E., Uintah County, on right bank 350 ft (110 m) downstream from bridge on State Highway 45, 1 mile (2 km) downstream from Evacuation Creek, and 7 miles (11 km) north of Watson.

DRAINAGE AREA.--4,020 mi² (10,410 km²), approximately.

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-05, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft (1,507.779 m) above mean sea level. See WSP 1733 for history of changes prior to Oct. 27, 1959.

AVERAGE DISCHARGE.--51 years (1923-74), 702 ft³/s (19.88 m³/s), 508,600 acre-ft/yr (627 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,230 ft³/s (91.5 m³/s) May 11 (gage height, 5.91 ft or 1.801 m); minimum discharge, 156 ft³/s (4.42 m³/s) Dec. 5, result of freezeup.

Period of record: Maximum daily discharge, 8,160 ft³/s (231 m³/s) July 15, 1929; maximum gage height, 13.1 ft (3.99 m) Feb. 11, 1962, from floodmark in well (backwater from ice); minimum discharge, 11 ft³/s (0.31 m³/s) Dec. 6, 1972, result of freezeup; minimum daily, 45 ft³/s (1.27 m³/s) Dec. 6, 1972, result of freezeup.

REMARKS.--Records good except those for winter periods, which are poor. Diversions for irrigation of about 31,900 acres (129 km²) above station. Records of chemical analyses and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	463	440	470	345	370	360	644	1,040	2,420	777	405	203
2	464	464	482	335	360	370	650	1,130	2,260	743	400	195
3	469	494	470	335	355	390	683	1,340	2,220	690	400	199
4	456	497	412	360	350	410	736	1,260	2,180	650	400	199
5	476	476	238	410	340	440	670	1,410	1,970	657	390	216
6	476	470	355	420	330	480	605	1,670	2,030	644	373	220
7	470	488	355	430	325	530	580	1,930	2,400	618	351	211
8	506	494	380	440	325	580	592	2,130	2,090	605	335	199
9	757	482	400	450	340	640	567	2,310	2,020	599	356	203
10	605	464	370	455	345	700	549	2,780	1,740	543	567	211
11	536	459	385	455	355	770	580	3,030	1,560	500	599	207
12	512	452	410	455	360	840	624	2,910	1,440	435	512	229
13	500	450	440	455	355	930	709	2,750	1,380	423	452	242
14	494	450	425	455	345	1,050	683	2,860	1,420	418	441	265
15	487	441	400	455	340	1,200	833	2,430	1,530	412	423	285
16	481	418	380	455	330	1,300	812	2,110	1,690	452	406	356
17	462	435	400	455	325	1,340	798	2,180	1,800	452	390	400
18	455	464	420	430	325	1,190	683	2,470	1,880	615	368	435
19	454	464	415	420	320	912	657	2,340	1,850	628	362	429
20	454	460	405	390	315	798	676	2,540	1,870	1,460	362	412
21	454	412	395	370	315	663	696	2,460	1,740	1,010	368	395
22	447	446	390	355	315	580	690	2,060	1,670	676	351	384
23	441	412	410	340	315	543	663	1,780	1,510	574	351	390
24	429	464	450	340	315	536	657	1,620	1,350	506	341	400
25	429	423	460	345	315	530	716	1,540	1,250	512	315	418
26	429	466	460	350	320	512	812	1,500	1,150	580	294	400
27	435	415	450	360	330	524	1,030	1,570	1,050	500	282	400
28	429	412	420	370	340	530	1,200	2,080	963	470	265	406
29	441	449	400	370	-----	543	1,140	2,220	883	440	242	412
30	441	441	380	370	-----	543	1,130	2,370	833	420	238	423
31	432	-----	360	370	-----	561	-----	2,530	-----	410	220	-----
TOTAL	14,784	13,602	12,587	12,345	9,375	21,295	22,065	64,350	50,149	18,419	11,559	9,344
MEAN	477	453	406	398	335	687	736	2,076	1,672	594	373	311
MAX	757	497	482	455	370	1,340	1,200	3,030	2,420	1,460	599	435
MIN	429	412	238	335	315	360	549	1,040	833	410	220	195
AC-FT	29,320	26,980	24,970	24,490	18,600	42,240	43,770	127,600	99,470	36,530	22,930	18,530

CAL YR 1973 TOTAL 285,345 MEAN 782 MAX 3,960 MIN 238 AC-FT 566,000
WTR YR 1974 TOTAL 259,874 MEAN 712 MAX 3,030 MIN 195 AC-FT 515,500

PEAK DISCHARGE (BASE, 2,900 CFS).--May 11 (1000) 3,230 cfs (5.91 ft).

GREEN RIVER BASIN

09306800 Bitter Creek near Bonanza, Utah

LOCATION.—Lat 39°45'12", long 109°21'15", in SW¼SW¼SW¼ sec.21, T.12 S., R.23 E., Uintah County, on left bank 150 ft (46 m) upstream from road bridge, 3 miles (5 km) downstream from Sweetwater Canyon Creek, 17 miles (27 km) upstream from mouth, and 18 miles (29 km) southwest of Bonanza.

DRAINAGE AREA.—324 mi² (839 km²).

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,570 ft (1,698 m) from topographic map.

EXTREMES.—Current year: Maximum discharge, 1,660 ft³/s (47.0 m³/s) July 17 (gage height, 13.55 ft or 4.130 m, from floodmarks), from rating curve extended above 5 ft³/s (0.142 m³/s) on basis of slope-area measurement of peak flow; no flow for many days.
Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) July 17, 1974 (gage height, 13.55 ft or 4.130 m, from floodmarks), from rating curve extended above 5 ft³/s (0.142 m³/s) on basis of slope-area measurement of peak flow; no flow for many days each year.

REMARKS.—Records fair except those for winter period, which are poor. Small reservoirs on tributaries above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	2.6	2.0	2.7	3.0	3.7	5.5	4.0	1.4	0	.15	
2	.88	2.5	2.0	2.7	2.8	4.3	5.9	3.8	1.4	0	.15	
3	.79	2.7	1.9	2.7	2.8	4.8	5.8	3.8	1.3	0	.15	
4	.79	2.7	1.8	2.7	3.2	5.2	5.5	3.6	1.5	0	.15	
5	.93	2.7	1.7	2.7	3.2	5.7	5.0	3.5	2.0	0	.13	
6	.94	2.5	1.7	2.7	2.9	6.4	5.2	3.5	2.2	0	.08	
7	.88	2.8	1.6	2.7	3.0	7.7	4.7	2.1	2.2	0	.06	
8	.95	2.4	1.3	2.7	3.0	7.7	4.5	2.3	2.9	0	5.6	
9	2.6	2.2	1.3	2.8	3.0	6.2	5.1	2.5	2.8	0	19	
10	2.5	2.2	1.2	2.6	3.0	5.9	5.1	2.4	2.2	0	.35	
11	2.3	2.3	1.6	2.5	3.0	5.5	5.0	1.9	1.7	0	.02	
12	2.1	2.4	1.7	2.3	3.0	5.1	5.7	2.4	1.5	0	0	
13	1.8	2.3	1.7	2.2	3.0	4.9	5.8	2.2	1.5	0	0	
14	1.7	2.4	1.8	2.6	3.1	4.8	5.4	2.2	1.3	0	0	
15	1.8	2.3	1.9	2.9	2.9	5.1	5.6	2.2	.48	.98	0	
16	1.7	2.2	2.0	2.9	3.0	5.1	5.6	2.1	.70	71	0	
17	1.5	2.2	2.0	3.0	3.1	5.0	5.0	2.2	1.0	92	0	
18	1.6	2.1	2.1	2.7	3.0	5.2	4.9	2.0	.43	10	0	
19	1.7	2.1	2.1	2.7	3.0	5.3	4.8	2.0	.20	1.3	0	
20	1.8	2.1	2.2	2.7	3.0	5.0	5.3	2.0	.05	16	0	
21	1.8	2.0	2.3	2.7	2.9	4.9	5.2	2.2	0	1.6	0	
22	1.9	2.0	2.4	2.4	3.0	4.6	4.7	2.3	0	1.0	0	
23	2.0	2.0	2.5	2.5	3.0	4.7	4.4	2.3	0	5.3	0	
24	1.9	2.0	2.6	2.6	3.0	4.8	4.1	2.2	0	3.9	0	
25	2.1	2.0	2.7	2.7	3.0	4.4	4.1	2.0	0	.20	0	
26	2.1	2.0	2.7	2.7	2.9	4.4	4.3	1.8	0	.18	0	
27	2.1	2.0	2.7	2.8	2.9	4.5	4.2	1.8	0	.18	0	
28	2.2	2.0	2.7	2.8	2.8	4.8	4.4	1.7	0	.15	0	
29	2.4	2.0	2.7	2.8	-----	4.8	4.0	1.5	0	.15	0	
30	2.4	2.0	2.8	2.9	-----	5.0	4.0	1.3	0	.15	0	
31	2.4	-----	2.7	2.9	-----	5.3	-----	1.5	-----	.15	0	-----
TOTAL	53.44	67.7	64.4	83.3	83.5	160.8	148.8	73.4	28.76	204.24	25.84	0
MEAN	1.72	2.26	2.08	2.69	2.98	5.19	4.96	2.37	.96	6.59	.83	0
MAX	2.6	2.8	2.8	3.0	3.2	7.7	5.9	4.0	2.9	92	19	0
MIN	.79	2.0	1.2	2.2	2.8	3.7	4.0	1.3	0	0	0	0
AC-FT	106	134	128	165	166	319	295	146	57	405	51	0

CAL YR 1973 TOTAL 631.47 MEAN 1.73 MAX 19 MIN 0 AC-FT 1,250
WTR YR 1974 TOTAL 994.18 MEAN 2.72 MAX 92 MIN 0 AC-FT 1,970

GREEN RIVER BASIN

75

09306900 White River at mouth near Ouray, Utah

LOCATION.--Lat 40°03'54", long 109°38'06', in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.9 S., R.20 E., Uintah County, on left bank 1.8 miles (2.9 km) from Ouray and 2.2 miles (3.5 km) upstream from mouth.

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft (1,419 m) from topographic map.

EXTREMES.--Maximum daily discharge during period, 3,200 ft³/s (90.6 m³/s) May 11; minimum discharge, 168 ft³/s (4.76 m³/s) Sept. 3, 4.

REMARKS.--Records fair. Diversions for irrigation of about 37,800 acres (153 km²) above station. Records of chemical analyses and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							660	1,150	2,700	810	336	206
2							720	1,530	2,570	741	340	190
3							760	1,510	2,290	691	349	177
4							780	1,180	2,260	638	356	181
5							740	1,190	2,160	600	352	190
6							680	1,420	1,940	590	367	200
7							640	1,590	2,200	579	344	195
8							620	1,900	2,090	551	301	195
9							590	2,540	1,930	555	290	195
10							600	2,900	1,850	540	328	200
11							620	3,200	1,550	478	545	200
12							690	3,050	1,570	433	540	210
13							750	2,900	1,490	380	443	225
14							800	2,950	1,490	368	391	240
15							880	2,800	1,490	364	386	255
16							860	2,500	1,690	342	376	272
17							830	2,250	1,950	464	363	331
18							800	2,480	1,900	567	346	356
19							730	2,690	1,840	609	320	390
20							700	2,610	1,860	799	308	384
21							720	2,860	1,890	1,230	307	370
22							720	2,420	1,800	646	311	359
23							720	1,900	1,810	624	303	353
24							700	1,780	1,630	537	299	361
25							766	1,770	1,510	495	307	369
26								986	1,650	1,490	555	281
27						540	1,100	1,660	1,320	507	260	369
28						550	1,300	1,940	1,150	441	240	373
29					-----	565	1,250	2,440	999	423	229	380
30					-----	590	1,200	2,500	871	409	213	390
31	-----				-----	630	-----	2,670	-----	359	206	-----
TOTAL							23,912	67,930	53,290	17,325	10,337	8,498
MEAN							797	2,191	1,776	559	333	283
MAX							1,300	3,200	2,700	1,230	545	390
MIN							590	1,150	871	342	206	177
AC-FT							47,430	134,700	105,700	34,360	20,500	16,860

GREEN RIVER BASIN

09308500 Minnie Maud Creek near Myton, Utah

LOCATION.--Lat 39°48'10", long 110°35'00", in SW¼ sec.3, T.12 S., R.12 E., Carbon County, on left bank 40 miles (64 km) southwest of Myton.

DRAINAGE AREA.--30 mi² (78 km²), approximately.

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,190 ft (2,192 m) by barometer.

AVERAGE DISCHARGE.--22 years, 5.15 ft³/s (0.146 m³/s), 3,730 acre-ft/yr (4.60 hm³/yr).EXTREMES.--Current year: Maximum discharge, 4.6 ft³/s (0.130 m³/s) Apr. 28 (gage height, 4.79 ft or 1.460 m), maximum gage height, 6.00 ft (1.829 m) date unknown (backwater from ice); minimum discharge recorded, 0.18 ft³/s (0.005 m³/s) Sept. 7.Period of record: Maximum discharge, 1,370 ft³/s (38.8 m³/s) Aug. 25, 1961 (gage height, 9.40 ft or 2.865 m), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-area measurement of peak flow; no flow at times.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.9	2.0	1.8	1.6	1.6	1.8	3.2	1.9	.75	.62	.35
2	2.1	2.0	2.0	1.8	1.6	1.6	1.8	3.4	1.9	.75	.65	.35
3	2.0	2.0	2.0	1.8	1.6	1.6	1.8	3.5	2.0	.75	.62	.36
4	2.1	2.0	2.0	1.8	1.6	1.6	1.8	3.6	1.9	.74	.56	.37
5	2.0	2.0	2.0	1.8	1.6	1.6	1.8	3.7	1.8	.72	.54	.35
6	2.0	2.1	2.0	1.8	1.6	1.6	2.0	3.7	1.7	.70	.53	.32
7	2.0	2.1	2.0	1.8	1.6	1.6	2.0	3.8	1.7	.72	.53	.31
8	2.0	2.0	2.0	1.8	1.6	1.6	2.0	3.8	1.7	.67	.48	.30
9	2.4	2.0	2.0	1.8	1.6	1.6	2.1	3.8	1.6	.69	.71	.30
10	2.3	2.1	2.0	1.8	1.6	1.6	2.3	3.9	1.5	.62	.55	.29
11	2.3	2.0	2.0	1.8	1.6	1.6	2.3	4.0	1.3	.60	.50	.32
12	2.2	2.0	2.0	1.8	1.6	1.6	2.3	4.0	1.4	.60	.48	.35
13	2.1	2.0	2.0	1.8	1.6	1.6	2.4	4.0	1.3	.58	.48	.38
14	2.2	2.0	2.0	1.8	1.6	1.6	2.2	3.9	1.3	.59	.45	.45
15	2.2	2.0	2.0	1.8	1.6	1.6	2.3	3.7	1.3	.77	.44	.47
16	2.2	2.0	2.0	1.8	1.6	1.6	2.3	3.5	1.2	.86	.43	.40
17	2.2	2.0	2.0	1.8	1.6	1.6	2.4	3.4	1.1	.87	.41	.37
18	2.2	2.0	2.0	1.8	1.6	1.6	2.4	3.3	1.1	.65	.37	.34
19	2.2	2.0	2.0	1.8	1.6	1.6	2.6	3.2	.93	.81	.38	.34
20	2.2	2.0	2.0	1.8	1.6	1.6	2.7	3.5	.84	1.0	.38	.32
21	2.2	2.0	2.0	1.8	1.6	1.6	2.3	3.2	.85	1.0	.40	.32
22	2.2	2.0	2.0	1.8	1.6	1.6	2.4	3.0	.85	.81	.40	.32
23	2.1	2.0	2.0	1.8	1.6	1.6	2.5	2.9	.80	.78	.39	.33
24	2.1	2.0	2.0	1.8	1.6	1.6	2.5	2.7	.80	.71	.38	.33
25	2.0	2.0	2.0	1.8	1.6	1.6	2.5	2.6	.80	.70	.40	.33
26	2.0	2.0	2.0	1.8	1.6	1.6	2.7	2.5	.80	.69	.40	.33
27	2.1	2.0	2.0	1.8	1.6	1.6	2.8	2.4	.80	.74	.39	.33
28	2.1	2.0	2.0	1.8	1.6	1.6	2.9	2.2	.80	.72	.38	.34
29	1.9	2.0	2.0	1.8	-----	1.6	3.2	2.1	.80	.66	.37	.33
30	2.1	2.0	2.0	1.8	-----	1.6	3.2	2.1	.80	.56	.35	.34
31	1.9	-----	2.0	1.8	-----	1.6	-----	2.1	-----	.58	.35	-----
TOTAL	65.7	60.2	62.0	55.8	44.8	49.6	70.3	100.6	37.57	22.39	14.32	10.34
MEAN	2.12	2.01	2.00	1.80	1.60	1.60	2.34	3.25	1.25	.72	.46	.34
MAX	2.4	2.1	2.0	1.8	1.6	1.6	3.2	4.0	2.0	1.0	.71	.47
MIN	1.9	1.9	2.0	1.8	1.6	1.6	1.8	2.1	.80	.56	.35	.29
AC-FT	130	119	123	111	89	98	139	200	75	44	28	21

CAL YR 1973 TOTAL 4,473.70 MEAN 12.3 MAX 172 MIN .80 AC-FT 8,870

WTR YR 1974 TOTAL 593.62 MEAN 1.63 MAX 4.0 MIN .29 AC-FT 1,180

PEAK DISCHARGE (BASE, 90 CFS). No peak above base.

NOTE: No gage-height record Jan. 4 to Apr. 8.

GREEN RIVER BASIN

77

09309600 Fairview Tunnel near Fairview, Utah
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¼NW¼NE¼ sec.25, T.13 S., R.5 E., Sanpete County, on right bank 1,000 ft (305 m) upstream from tunnel portal, 7 miles (11.3 km) east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. (July to September 1967, gage height only) Seasonal records only.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage, 8,660 ft (2,640 m) from topographic map.

EXTREMES.--Current year: Maximum daily discharge, 18 ft³/s (0.51 m³/s) June 28-July 3; no flow many days.

Period of record: Maximum discharge, 23 ft³/s (0.65 m³/s) Aug. 2, 1969 (gage height, 1.09 ft or 0.33 m); no flow many days each year.

REMARKS.--Records fair. Fairview Tunnel diverts from San Rafael and Price River drainages in the Colorado River basin to San Pitch River in the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									4.5	18	16	8.7
2									4.5	18	15	7.4
3									4.4	18	15	4.7
4									5.1	17	14	1.4
5									6.0	17	14	0
6									5.6	17	14	0
7									6.0	17	14	0
8									7.0	17	14	0
9									7.0	17	14	0
10									8.5	17	14	0
11									9.4	17	14	0
12									10	17	14	0
13									11	17	14	0
14									10	17	13	0
15									9.8	17	13	0
16									9.4	17	13	0
17									8.5	17	12	0
18									12	17	12	0
19									14	17	12	0
20									14	17	12	0
21									14	17	12	0
22									14	17	12	0
23									14	17	12	0
24									13	16	11	0
25									13	16	11	0
26									13	16	11	0
27									16	16	10	0
28									18	16	10	0
29					-----				18	15	10	0
30					-----				18	15	9.4	0
31		-----			-----		-----		-----	15	9.2	-----
TOTAL									317.7	519	390.6	22.2
MEAN									10.6	16.7	12.6	.74
MAX									18	18	16	8.7
MIN									4.4	15	9.2	0

GREEN RIVER BASIN

09310000 Gooseberry Creek near Scofield, Utah

LOCATION.—Lat 39°42'57", long 111°17'58", in NW¼SE¼SW¼ sec.6, T.13 S, R.6 E., Sanpete County, on left bank 300 ft (91 m) downstream from old Mammoth Dam, 5.5 miles (8.8 km) upstream from mouth, and 7 miles (11 km) west of Scofield.

DRAINAGE AREA.—16.4 mi² (42.5 km²).

PERIOD OF RECORD.—October 1930 to September 1931, May 1940 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 8,400 ft (2,560 m) from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft (0.15 m) higher.

AVERAGE DISCHARGE.—35 years, 18.5 ft³/s (0.524 m³/s), 13,400 acre-ft/yr (16.5 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 251 ft³/s (7.11 m³/s) May 9 (gage height, 2.61 ft or 0.796 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 11, 12.

Period of record: Maximum discharge, 414 ft³/s (11.7 m³/s) May 30, 1952; maximum gage height, 2.98 ft (0.908 m) June 6, 1957; no flow Nov. 11, 1964, Sept. 23–26, 1966.

REMARKS.—Records good except period of no gage-height record, which are poor. Transmountain diversion above station by Fairview ditch (see station 09309500) for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 miles (8 km) above station, capacity about 1,900 acre-ft (2.3 km³) is used to regulate these diversions. Flow also affected by small reservoir 1 mile (2 km) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.4	4.1	4.8	4.8	3.8	4.7	38	53	11	5.4	2.8
2	4.4	4.4	4.1	4.8	4.8	3.8	5.8	50	49	9.8	6.7	2.8
3	4.4	4.4	4.1	4.8	4.8	3.8	4.3	63	46	8.9	6.3	2.5
4	4.4	4.4	4.1	4.8	4.8	3.8	4.0	80	42	8.4	5.0	2.8
5	4.4	4.4	4.1	4.8	4.8	3.8	3.7	99	37	8.0	4.3	2.8
6	4.4	4.4	4.1	4.8	4.8	3.8	3.7	124	35	7.7	4.7	2.5
7	4.4	4.4	4.1	4.8	4.8	3.7	3.4	144	32	7.4	4.7	2.8
8	4.4	4.4	4.1	4.8	4.8	3.7	3.7	171	32	7.1	4.3	2.8
9	4.4	4.4	4.1	4.8	4.5	3.4	3.7	194	31	6.9	4.3	2.5
10	4.4	4.4	4.1	4.8	4.0	3.4	3.7	222	28	7.2	4.0	2.5
11	4.4	4.4	4.1	4.8	3.8	3.7	4.7	205	25	6.4	4.0	2.3
12	4.4	4.4	4.1	4.8	3.8	3.7	4.0	207	24	6.1	3.7	2.3
13	4.4	4.4	4.1	4.8	3.8	3.7	4.3	189	23	5.9	3.7	2.5
14	4.4	4.4	4.1	4.8	3.8	3.7	3.4	152	22	5.7	3.4	2.8
15	4.4	4.1	4.1	4.8	3.8	3.7	3.7	155	21	4.7	3.4	3.0
16	4.4	4.1	4.1	4.8	3.8	3.7	3.7	155	20	5.6	3.0	3.0
17	4.4	3.8	4.1	4.8	3.8	4.0	4.0	135	20	8.3	3.0	3.0
18	4.4	4.1	4.1	4.8	3.8	4.3	4.7	120	19	8.0	3.0	2.8
19	4.4	4.1	4.1	4.8	3.8	4.3	5.4	108	18	7.3	3.0	2.8
20	4.4	4.1	4.1	4.8	3.8	4.3	6.7	96	16	11	2.5	2.8
21	4.4	4.1	4.1	4.8	3.8	4.3	5.9	84	15	12	2.5	2.8
22	4.4	4.1	4.1	4.8	3.8	4.3	5.6	75	15	8.4	2.8	2.5
23	4.4	4.1	4.1	4.8	3.8	4.0	7.6	67	14	6.7	2.8	2.5
24	4.4	4.1	4.1	4.8	3.8	4.0	12	62	14	6.7	2.8	2.5
25	4.4	3.8	4.1	4.8	3.8	4.0	17	61	13	6.7	2.8	2.8
26	4.4	4.1	4.1	4.8	3.8	4.0	27	63	12	6.3	2.8	2.5
27	4.4	4.1	4.3	4.8	3.8	4.0	25	67	12	6.3	2.8	2.5
28	4.4	4.1	4.8	4.8	3.8	4.0	21	68	12	7.1	2.8	2.5
29	4.4	4.1	4.8	4.8	-----	4.0	21	66	11	6.3	3.0	2.5
30	4.4	4.1	4.8	4.8	-----	4.0	27	64	11	5.4	3.0	2.5
31	4.4	-----	4.8	4.8	-----	7.5	-----	60	-----	4.7	2.8	-----
TOTAL	136.4	126.6	130.1	148.8	115.3	124.2	254.4	3,445	722	228.0	113.3	79.7
MEAN	4.40	4.22	4.20	4.80	4.12	4.01	8.48	111	24.1	7.35	3.65	2.66
MAX	4.4	4.4	4.8	4.8	4.8	7.5	27	222	53	12	6.7	3.0
MIN	4.4	3.8	4.1	4.8	3.8	3.4	3.4	38	11	4.7	2.5	2.3
AC=FT	271	251	258	295	229	246	505	6,830	1,430	452	225	158

CAL YR 1973 TOTAL 7,126.1 MEAN 19.5 MAX 250 MIN 3.5 AC=FT 14,130
 WTR YR 1974 TOTAL 5,623.8 MEAN 15.4 MAX 222 MIN 2.3 AC=FT 11,150

NOTE.—No gage-height record Oct. 1 to Mar. 6.

GREEN RIVER BASIN

79

09310500 Fish Creek above Reservoir, near Scofield, Utah

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¼SW¼ sec.18, T.12 S., R. 7 E., Carbon County, on right bank 0.8 mile (1.3 km) upstream from bridge, 1.2 miles (1.9 km) downstream from French Creek, and 4.5 miles (7.2 km) north of Scofield.

DRAINAGE AREA.--65 mi² (168 km²), approximately.

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft (2,338 m) from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mile (0.8 km) downstream at different datums.

AVERAGE DISCHARGE.--36 years (1938-74), 46.4 ft³/s (1.314 m³/s) 33,620 acre-ft/yr (41.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 874 ft³/s (24.8 m³/s) May 9 (gage height, 4.35 ft or 1.326 m); minimum, 6.3 ft³/s (0.18 m³/s) Sept. 10-12.

Period of record: Maximum discharge, 1,160 ft³/s (32.9 m³/s) May 20, 1973 (gage height, 4.87 ft or 1.484 m); minimum recorded, 0.6 ft³/s (0.02 m³/s) Oct. 31, 1960.

REMARKS.--Records good except those for winter periods, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin and one diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	10	10	10	11	13	122	131	30	16	7.3
2	13	12	10	10	10	11	13	156	120	29	16	7.2
3	12	12	10	10	10	11	13	190	111	28	15	7.1
4	12	12	10	10	10	11	13	233	102	27	14	6.9
5	12	13	10	10	10	11	13	281	95	26	13	7.0
6	12	12	10	10	10	11	13	330	88	25	13	7.1
7	11	12	10	10	10	11	13	415	83	25	13	6.8
8	11	13	10	10	10	11	13	501	82	24	12	6.9
9	12	13	10	10	10	11	14	589	75	23	12	6.5
10	12	12	10	10	10	11	14	749	68	23	12	6.4
11	12	12	10	10	10	11	16	664	63	22	11	6.3
12	12	12	10	10	10	11	15	624	59	21	11	6.5
13	12	13	10	10	10	11	16	584	56	20	10	6.7
14	12	11	10	10	10	11	15	453	55	20	10	7.1
15	12	10	10	10	10	11	17	433	52	19	10	7.4
16	12	10	10	10	10	12	19	425	50	20	9.8	7.4
17	12	10	10	10	10	12	22	389	48	22	9.9	7.2
18	12	10	10	10	10	12	27	337	46	21	9.3	7.1
19	11	10	10	10	10	12	28	304	44	20	9.2	7.1
20	11	10	10	10	10	12	29	268	41	22	9.1	7.1
21	11	10	10	10	10	12	28	229	40	24	8.8	7.0
22	11	10	10	10	10	12	32	202	38	21	8.9	7.0
23	11	10	10	10	10	12	41	182	37	19	8.5	7.0
24	11	10	10	10	10	12	52	174	35	18	8.6	7.1
25	11	10	10	10	10	12	69	171	34	18	8.6	7.3
26	11	10	10	10	10	12	84	173	33	17	8.1	7.3
27	11	10	10	10	10	12	72	176	32	17	8.0	7.3
28	11	10	10	10	10	12	63	174	31	18	7.7	7.3
29	11	10	10	10	-----	12	66	167	30	16	7.8	7.4
30	11	10	10	10	-----	12	86	156	30	15	7.5	7.4
31	12	-----	10	10	-----	12	-----	145	-----	15	7.4	-----
TOTAL	360	331	310	310	280	357	929	9,996	1,809	665	325.2	211.2
MEAN	11.6	11.0	10.0	10.0	10.0	11.5	31.0	322	60.3	21.5	10.5	7.04
MAX	13	13	10	10	10	12	86	749	131	30	16	7.4
MIN	11	10	10	10	10	11	13	122	30	15	7.4	6.3
AC-FT	714	657	615	615	555	708	1,840	19,830	3,590	1,320	645	419

CAL YR 1973 TOTAL 23,792.7 MEAN 65.2 MAX 1,050 MIN 8.4 AC-FT 47,190
WTR YR 1974 TOTAL 15,883.4 MEAN 43.5 MAX 749 MIN 6.3 AC-FT 31,500

PEAK DISCHARGE (BASE, 270 CFS).--May 9 (2200) 874 cfs (4.35 ft).

GREEN RIVER BASIN

09311000 Scofield Reservoir near Scofield, Utah

LOCATION.—Lat 39°47'15", long 111°07'30", in NW¼SE¼ sec.10, T.12 S., R.7 E., Carbon County, on right bank 200 ft (60 m) upstream from face of dam on Price River and 5 miles (8 km) northeast of Scofield.

DRAINAGE AREA.—155 sq mi (401 km²), approximately.

PERIOD OF RECORD.—October 1941, April 1942 to current year. Fragmentary records 1926–41 in files of Office of State Engineer.

GAGE.—Staff gage read twice daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft (240 m) upstream (200 ft or 60 m upstream from old dam) at datum 4.51 ft (1.375 m) higher.

EXTREMES.—Current year: Maximum contents, 66,910 acre-ft (82.5 hm³) May 28–June 1, 4 (elevation, 7,617.9 ft or 2,321.94 m); minimum, 32,230 acre-ft (39.7 hm³) Sept. 30 (elevation, 7,604.4 ft or 2,317.82 m).

Period of record: Maximum contents, 76,450 acre-ft (94.3 hm³) May 31, June 1, 1952 (elevation, 7,621.3 ft or 2,322.97 m); minimum observed, 280 acre-ft (0.35 hm³) Oct. 3, 1945 (elevation, 7,586.25 ft or 2,312.289 m).

REMARKS.—Reservoir is formed by earth and rockfill; rock-faced dam 800 ft (240 m) downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft (81.1 hm³) between elevations 7,586.0 ft (2,312.3 m) (bottom of outlet works) and 7,617.5 ft (2,321.81 m) (crest of spillway). Dead storage, 8,000 acre-ft (9.87 hm³) below elevation 7,586.0 ft (2,312.21 m). Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.—Capacity table furnished by Bureau of Reclamation.

REVISIONS(WATER YEARS).—WSP 1089: 1946.

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

7,600	22,750	7,615	58,870
7,605	33,600	7,620	72,932
7,610	45,720		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41,970	40,250	40,740	41,480	43,460	43,960	45,470	48,020	66,910	58,870	48,280	36,890
2	41,720	40,250	40,740	41,480	43,460	43,960	45,470	48,280	66,630	58,320	47,760	36,890
3	41,480	40,250	40,740	41,720	43,460	44,210	45,720	48,790	66,350	57,780	47,760	36,640
4	41,480	40,250	40,740	41,720	43,460	44,210	45,720	49,310	66,910	57,780	47,250	36,400
5	41,230	40,250	40,740	41,720	43,460	44,210	45,720	49,830	66,630	57,240	46,740	36,400
6	41,230	40,250	40,740	41,720	43,460	44,460	45,980	50,870	66,350	56,700	46,480	36,170
7	40,980	40,250	40,740	41,720	43,460	44,460	45,980	51,650	66,060	56,430	46,230	35,930
8	40,980	40,250	40,740	42,220	43,460	44,460	45,980	53,230	66,060	56,160	45,980	35,700
9	40,740	40,250	40,740	42,220	43,460	44,460	45,980	54,560	65,780	55,630	45,720	35,460
10	40,490	40,250	40,740	42,220	43,460	44,460	45,980	55,900	65,500	55,360	45,220	34,990
11	40,490	40,250	40,740	42,460	43,460	44,460	45,980	57,510	65,500	54,830	44,710	34,990
12	40,250	40,490	40,740	42,460	43,460	44,460	45,980	58,600	65,220	54,300	44,710	34,760
13	40,250	40,490	40,740	42,460	43,460	44,710	46,480	59,960	64,940	54,030	44,210	34,530
14	40,250	40,490	40,980	42,460	43,460	44,710	46,480	61,060	64,660	53,500	43,710	34,300
15	40,250	40,490	40,980	42,460	43,710	44,710	46,480	62,160	64,660	52,970	43,210	34,060
16	40,250	40,490	40,980	42,710	43,710	44,710	46,740	62,710	64,380	52,440	42,710	34,060
17	40,250	40,490	40,980	42,710	43,710	44,710	46,740	63,550	64,100	52,440	42,710	33,830
18	40,250	40,490	40,980	42,710	43,710	44,710	46,480	64,380	63,820	52,440	42,220	33,600
19	40,250	40,490	40,980	42,960	43,710	44,960	46,480	64,940	63,270	52,180	41,720	33,600
20	40,250	40,490	41,230	42,960	43,710	44,960	46,740	65,500	62,710	51,920	41,230	33,600
21	40,250	40,490	41,230	42,960	43,710	44,960	46,740	65,780	62,710	51,650	40,980	33,370
22	40,000	40,490	41,230	42,960	43,710	45,220	46,740	66,060	62,160	51,390	40,740	33,140
23	40,000	40,490	41,230	42,960	43,960	45,220	47,000	66,060	61,880	51,130	40,250	33,140
24	40,000	40,490	41,230	42,960	43,960	45,220	47,000	66,350	61,610	50,870	39,760	32,910
25	40,000	40,490	41,230	43,210	43,960	45,220	47,000	66,350	61,330	50,610	39,280	32,910
26	40,000	40,490	41,230	43,210	43,960	45,220	47,250	66,350	60,510	50,090	38,790	32,690
27	40,000	40,490	41,230	43,210	43,960	45,220	47,510	66,630	60,510	49,830	38,310	32,690
28	40,250	40,490	41,230	43,210	43,960	45,220	47,760	66,910	59,960	49,570	38,310	32,460
29	40,250	40,490	41,480	43,210	-----	45,220	47,760	66,910	59,690	49,310	37,830	32,460
30	40,250	40,740	41,480	43,210	-----	45,220	48,020	66,910	59,410	48,790	37,350	32,230
31	40,250	-----	41,480	43,460	-----	45,470	-----	66,910	-----	48,540	37,350	-----
MAX	41,970	40,740	41,480	43,460	43,960	45,470	48,020	66,910	66,910	58,870	48,280	36,890
MIN	40,000	40,250	40,740	41,480	43,460	43,960	45,470	48,020	59,410	48,540	37,350	32,230
(+)	7,607.8	7,608.0	7,608.3	7,609.1	7,609.3	7,609.9	7,610.9	7,617.9	7,615.2	7,611.1	7,606.6	7,604.4
(-)	-1,970	+490	+740	+1,980	+500	+1,510	+2,550	+18,890	-7,500	-10,870	-11,190	-5,120

CAL YR 1973. ‡ +19,760

WTR YR 1974. ‡ -9,990

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

09312600 White River below Tabbyune Creek, near Soldier Summit, Utah

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¼SE¼SW¼ sec.9, T.11 S., R.8 E., Utah County, 50 ft (15 m) downstream from bridge on U.S. Highways 6-50, 1.5 miles (2.4 km) downstream from Tabbyune Creek, 2.5 miles (4.0 km) northwest of the Colton railroad siding, and 4.5 miles (7.2 km) southeast of Soldier Summit.

DRAINAGE AREA.--75 mi² (194 km²), approximately.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft (2,204 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 30.4 ft³/s (0.861 m³/s), 22,020 acre-ft/yr (27.2 km³/yr).

EXTREMES.--Current year: Maximum discharge, 274 ft³/s (7.76 m³/s) May 10 (gage height, 3.93 ft or 1.198 m); minimum recorded, 1.7 ft³/s (0.048 m³/s) Sept. 10.

Period of record: Maximum discharge, 458 ft³/s (12.97 m³/s) May 14, 1973 (gage height, 5.24 ft or 1.597 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Mar. 1-18, 1969.

REMARKS.--Records good except those for winter period, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.2	5.2	5.0	5.0	5.3	15	162	96	13	8.6	2.3
2	4.8	5.2	5.2	5.0	5.0	5.7	16	175	92	12	12	2.3
3	4.8	5.2	5.2	5.0	5.0	5.4	14	181	88	14	13	2.3
4	4.8	5.2	5.2	5.0	5.0	4.9	12	186	86	12	9.3	2.5
5	4.9	5.2	5.2	5.0	5.0	4.9	10	198	83	12	7.7	2.3
6	5.1	5.2	5.2	5.0	4.7	4.9	13	205	81	11	7.2	2.2
7	5.5	5.2	5.2	5.0	4.4	4.9	15	222	78	11	6.6	2.2
8	5.8	5.2	5.2	5.0	4.2	4.9	15	239	77	10	6.6	2.5
9	7.4	5.2	5.2	5.0	4.1	4.9	22	257	73	11	6.6	2.2
10	8.1	5.2	5.2	5.0	4.1	4.9	25	269	70	9.7	6.1	2.0
11	7.8	5.2	5.2	5.0	4.1	4.9	25	254	66	9.4	6.1	2.0
12	7.2	5.2	5.2	5.0	4.1	6.9	27	239	63	9.2	5.5	2.5
13	6.8	5.2	5.2	5.0	4.1	5.3	26	228	60	8.7	5.0	2.9
14	8.6	5.2	5.2	5.0	4.1	9.8	29	211	58	8.2	4.5	3.3
15	7.3	5.2	5.2	5.0	4.1	8.1	34	194	55	9.6	4.2	3.9
16	6.5	5.2	5.2	5.0	4.1	9.0	41	183	54	18	4.0	3.5
17	5.8	5.2	5.2	5.0	4.1	10	50	176	51	16	3.9	3.1
18	5.4	5.2	5.2	5.0	4.1	11	69	167	48	11	3.7	2.9
19	5.4	5.2	5.2	5.0	4.1	13	75	160	44	12	3.5	3.0
20	5.2	5.2	5.2	5.0	4.1	15	76	154	39	25	3.3	2.7
21	5.2	5.2	5.2	5.0	4.1	12	72	146	36	22	3.4	2.7
22	5.2	5.2	5.2	5.0	4.1	13	76	140	34	14	3.6	2.7
23	5.2	5.2	5.2	5.0	4.1	14	86	133	32	11	3.5	2.9
24	5.2	5.2	5.2	5.0	4.1	13	112	128	28	20	3.2	2.9
25	5.2	5.2	5.2	5.0	4.1	13	153	123	25	12	3.0	2.9
26	5.2	5.2	5.2	5.0	4.3	17	167	118	23	9.4	2.9	2.7
27	4.5	5.2	5.2	5.0	4.6	19	149	115	21	9.8	3.0	2.7
28	4.5	5.2	5.2	5.0	4.9	23	139	111	19	8.6	2.7	2.9
29	4.9	5.2	5.2	5.0	-----	19	137	107	16	8.1	2.8	3.1
30	5.2	5.2	5.2	5.0	-----	19	145	103	15	7.4	2.7	3.2
31	5.2	-----	5.2	5.0	-----	19	-----	100	-----	7.7	2.5	-----
TOTAL	177.6	156.0	161.2	155.0	121.8	324.7	1,845	5,385	1,611	372.8	160.7	81.3
MEAN	5.73	5.20	5.20	5.00	4.35	10.5	61.5	174	53.7	12.0	5.18	2.71
MAX	8.6	5.2	5.2	5.0	5.0	23	167	269	96	25	13	3.9
MIN	4.5	5.2	5.2	5.0	4.1	4.9	10	100	15	7.4	2.5	2.0
AC-FT	352	309	320	307	242	644	3,660	10,680	3,200	739	319	161
CAL YR 1973	TOTAL 15,044.7	MEAN 41.2	MAX 453	MIN 4.5	AC-FT 29,840							
WTR YR 1974	TOTAL 10,552.1	MEAN 28.9	MAX 269	MIN 2.0	AC-FT 20,930							

PEAK DISCHARGE (BASE, 100 CFS).--Apr. 26 (0100) 195 cfs (3.38 ft); May 10 (1100) 274 cfs (3.93 ft).

GREEN RIVER BASIN

09312700 Beaver Creek near Soldier Summit, Utah

LOCATION.—Lat 39°49'50", long 110°58'07", in NW¼SW¼SW¼ sec.30, T.11 S., R.9 E., Utah County, on left bank 0.5 mile (0.8 km) upstream from mouth, 2.5 miles (4.0 km) southeast of Colton, and 9 miles (14 km) southeast of Soldier Summit.

DRAINAGE AREA.—26 mi² (67 km²), approximately.

PERIOD OF RECORD.—October 1960 to current year.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 7,200 ft (2,195 m) from topographic map.

AVERAGE DISCHARGE.—14 years, 4.25 ft³/s (0.120 m³/s), 3,080 acre-ft/yr (3.80 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 25 ft³/s (0.71 m³/s) May 7 (gage height, 1.44 ft or 0.439 m); minimum, 0.001 ft³/s (0.001 m³/s) several days in Aug. and Sept.

Period of record: Maximum recorded discharge, 135 ft³/s (3.82 m³/s) May 19, 1973 (gage height, 2.71 ft or 0.826 m); no flow for many days some years.

REMARKS.—Records good except those for winter periods, and period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.5	1.5	1.5	1.5	1.7	1.8	12	6.0	.61	.61	.07
2	1.5	1.5	1.5	1.5	1.5	1.9	1.9	15	5.3	.50	.50	.07
3	1.7	1.5	1.5	1.5	1.5	1.7	1.7	16	4.8	.50	.40	.07
4	1.5	1.5	1.5	1.5	1.5	1.6	1.3	17	4.6	.50	.40	.07
5	1.7	1.5	1.5	1.5	1.5	1.6	1.0	21	4.4	.50	.40	.07
6	1.6	1.5	1.5	1.5	1.5	1.6	1.0	22	4.2	.61	.40	.07
7	1.6	1.5	1.5	1.5	1.5	1.6	1.0	23	3.7	.61	.31	.07
8	1.6	1.5	1.5	1.5	1.5	1.6	1.1	21	3.3	.61	.31	.07
9	1.8	1.5	1.5	1.5	1.5	1.6	1.3	19	2.9	.50	.31	.07
10	2.1	1.5	1.5	1.5	1.5	1.6	1.7	19	2.9	.40	.22	.07
11	2.1	1.5	1.5	1.5	1.5	1.6	2.1	19	2.7	.40	.22	.07
12	2.0	1.5	1.5	1.5	1.5	1.6	2.3	16	2.4	.40	.14	.07
13	1.8	1.5	1.5	1.5	1.5	1.6	2.7	16	2.6	1.0	.14	.07
14	1.8	1.5	1.5	1.5	1.5	1.6	3.6	15	2.8	1.7	.14	.14
15	1.7	1.5	1.5	1.5	1.5	1.7	4.7	14	2.7	1.5	.14	.14
16	1.7	1.5	1.5	1.5	1.6	1.8	4.9	13	2.5	1.0	.14	.14
17	1.5	1.5	1.5	1.5	1.6	1.9	4.7	13	1.9	.86	.14	.07
18	1.5	1.5	1.5	1.5	1.6	2.1	3.8	12	1.6	2.3	.07	.07
19	1.5	1.5	1.5	1.5	1.6	2.3	4.5	11	1.4	1.7	.07	.07
20	1.5	1.5	1.5	1.5	1.6	2.6	6.8	10	1.4	1.2	.07	.07
21	1.5	1.5	1.5	1.5	1.6	2.1	8.8	9.6	1.3	1.2	.07	.07
22	1.5	1.5	1.5	1.5	1.6	2.2	9.7	9.0	1.2	1.5	.01	.07
23	1.6	1.5	1.5	1.5	1.6	2.3	11	8.8	1.0	1.0	.01	.07
24	1.5	1.5	1.5	1.5	1.6	2.2	7.9	8.6	.86	.73	.01	.07
25	1.6	1.5	1.5	1.5	1.6	2.0	6.4	8.2	.86	.86	.01	.07
26	1.7	1.5	1.5	1.5	1.6	2.3	6.8	7.5	.86	.73	.07	.07
27	1.5	1.5	1.5	1.5	1.6	2.5	6.8	7.2	.73	.50	.07	.22
28	1.4	1.5	1.5	1.5	1.6	3.1	8.4	7.0	.61	.40	.07	.31
29	1.5	1.5	1.5	1.5	-----	2.0	9.7	6.8	.61	.86	.07	.40
30	1.6	1.5	1.5	1.5	-----	2.0	10	6.6	.61	1.5	.07	.31
31	1.5	-----	1.5	1.5	-----	2.0	-----	6.3	-----	1.2	.07	-----
TOTAL	50.9	45.0	46.5	46.5	43.3	60.0	139.4	408.6	72.74	27.88	5.66	3.27
MEAN	1.64	1.50	1.50	1.50	1.55	1.94	4.65	13.2	2.42	.90	.18	.11
MAX	2.1	1.5	1.5	1.5	1.6	3.1	11	23	6.0	2.3	.61	.40
MIN	1.4	1.5	1.5	1.5	1.5	1.6	1.0	6.3	.61	.40	.01	.07
AC-FT	101	89	92	92	86	119	276	810	144	55	11	6.5
CAL YR 1973	TOTAL	3,843.80	MEAN	10.5	MAX	128	MIN	1.1	AC-FT	7,620		
WTR YR 1974	TOTAL	949.75	MEAN	2.60	MAX	23	MIN	.01	AC-FT	1,880		

NOTE.—No gage-height record Jan. 1 to Apr. 10.

GREEN RIVER BASIN

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09312800 Willow Creek near Castle Gate, Utah

LOCATION.--Lat 39°46'40", long 110°47'25", in sec.15, T.12 S., R.10 E. (unsurveyed), Carbon County, on right bank 130 ft (40 m) upstream from Deep Canyon, 170 ft (52 m) east of State Highway 33, 2 miles (3 km) downstream from junction with two major tributaries, 5 miles (8 km) northeast of Castle Gate, 5.5 miles (8.8 km) upstream from mouth, and 12 miles (19 km) north of Price.

DRAINAGE AREA.--62 mi² (161 km²) approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft (2,134 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 7.94 ft³/s (0.225 m³/s), 5,750 acre-ft/yr (7.09 km³/yr).

EXTREMES.--Current year: Maximum discharge, 28 ft³/s (0.79 m³/s) July 18 (gage height, 2.13 ft or 0.649 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 29.

Period of record: Maximum discharge, 836 ft³/s (23.7 m³/s) Aug. 6, 1973 (gage height, 6.47 ft or 1.972 m, from floodmarks); no flow on many days.

REMARKS.--Records fair, except winter period, which is poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.0	1.8	1.8	1.6	1.5	5.0	7.4	2.9	1.1	.63	.28
2	1.5	2.0	1.8	1.8	1.6	1.7	6.3	7.4	2.8	1.0	.60	.28
3	1.5	1.8	1.8	1.8	1.6	1.7	5.0	7.6	2.7	1.0	.60	.28
4	1.4	2.4	1.8	1.8	1.6	1.7	5.2	7.9	2.7	1.0	.60	.28
5	1.5	2.5	1.8	1.8	1.6	1.7	5.3	8.2	2.7	.95	.60	.32
6	1.5	2.5	1.8	1.8	1.6	1.7	5.5	8.2	2.6	.98	1.5	.32
7	1.5	2.3	1.8	1.8	1.6	1.7	5.1	8.5	2.6	1.0	1.0	.32
8	1.5	2.3	1.8	1.8	1.4	1.7	5.1	8.6	2.6	1.0	.88	.32
9	1.7	1.9	1.8	1.8	1.4	1.7	5.5	8.9	2.3	1.0	.82	.28
10	2.0	2.0	1.8	1.8	1.4	1.8	5.7	9.3	2.2	.84	.76	.23
11	1.9	2.1	1.8	1.8	1.4	1.8	5.3	9.5	2.2	.82	.72	.23
12	1.8	2.2	1.8	1.8	1.4	1.8	5.4	9.5	2.1	.69	.68	.28
13	1.7	2.2	1.8	1.8	1.4	1.8	5.1	9.3	2.1	.68	.66	.32
14	1.9	1.6	1.8	1.8	1.4	1.9	5.4	8.6	2.0	.74	.65	.52
15	1.8	1.6	1.8	1.8	1.4	2.0	5.1	8.0	1.9	.87	.63	.57
16	1.8	1.6	1.8	1.8	1.4	2.1	5.0	7.5	1.9	1.7	.62	.47
17	1.8	1.6	1.8	1.8	1.4	2.2	5.1	6.9	1.8	1.7	.58	.42
18	2.0	1.6	1.8	1.8	1.4	2.4	5.3	6.4	1.7	3.7	.55	.37
19	2.0	1.6	1.8	1.6	1.4	2.7	6.1	6.1	1.7	1.9	.53	.37
20	2.0	1.6	1.8	1.6	1.4	3.9	7.3	6.2	1.5	1.1	.51	.32
21	2.0	1.6	1.8	1.6	1.4	5.2	6.0	5.6	1.5	1.2	.52	.32
22	2.2	1.6	1.8	1.6	1.4	5.2	5.9	5.1	1.5	.81	.52	.32
23	2.1	1.6	1.8	1.6	1.4	5.1	6.1	4.7	1.4	.73	.47	.26
24	2.1	1.6	1.8	1.6	1.4	4.7	6.3	4.5	1.3	.94	.42	.26
25	2.1	1.6	1.8	1.6	1.4	4.4	6.8	4.1	1.3	1.1	.42	.28
26	2.2	1.6	1.8	1.6	1.4	4.0	7.6	3.8	1.2	.71	.47	.26
27	1.8	1.6	1.8	1.6	1.4	3.7	8.0	3.7	1.2	.76	.47	.23
28	1.9	1.6	1.8	1.6	1.4	5.4	7.6	3.4	1.1	4.6	.42	.23
29	1.9	1.7	1.8	1.6	-----	5.4	8.1	3.2	1.1	5.7	.42	.16
30	1.8	1.8	1.8	1.6	-----	5.7	7.6	3.1	1.1	2.2	.37	.16
31	2.1	-----	1.8	1.6	-----	5.7	-----	3.0	-----	1.1	.32	-----
TOTAL	56.5	55.7	55.8	53.2	40.6	94.0	178.8	204.4	57.7	43.62	18.94	9.26
MEAN	1.82	1.86	1.80	1.72	1.45	3.03	5.96	6.59	1.92	1.41	.61	.31
MAX	2.2	2.5	1.8	1.8	1.6	5.7	8.1	9.5	2.9	5.7	1.5	.57
MIN	1.4	1.6	1.8	1.6	1.4	1.5	5.0	3.0	1.1	.68	.32	.16
AC-FT	112	110	111	106	81	186	355	405	114	87	38	18

CAL YR 1973 TOTAL 6,536.48 MEAN 17.9 MAX 209 MIN .98 AC-FT 12,970
WTR YR 1974 TOTAL 868.52 MEAN 2.38 MAX 9.6 MIN .16 AC-FT 1,720

PEAK DISCHARGE (BASE, 100 CFS). No peak above base

NOTE.--No gage-height record Nov. 16 to Mar. 20.

GREEN RIVER BASIN

09314250 Price River below Miller Creek near Wellington, Utah

LOCATION.—Lat 39°26'59", long 110°37'08", in SE¼NE¼ sec.12, T.16 S., R.11 E., Emery County, on left bank 100 ft (30 m) downstream from highway bridge, and 8.5 miles (13.7 km) southeast of Wellington.

DRAINAGE AREA.—890 mi² (2,305 km²), approximately.

PERIOD OF RECORD.—April 1972 to current year.

GAGE.—Water-stage recorder. Altitude of gage, 5,250 ft (1,600 m) from topographic map.

EXTREMES.—Maximum discharge during period April to September 1972 not determined, occurred during period of no gage-height record; minimum, 12 ft³/s (0.34 m³/s) Sept. 26, 27.

Current year: Maximum discharge, 858 ft³/s (24.3 m³/s) July 17 (gage height, 5.26 ft or 1.603 m, from floodmark); minimum, 11 ft³/s (0.31 m³/s) Jan. 3.

Period of record: Maximum discharge, 2,720 ft³/s (77.0 m³/s) Oct. 18 or 19, 1972 (gage height, 9.45 ft or 2.880 m, from floodmark); minimum, 10 ft³/s (0.28 m³/s) Oct. 3, 1972.

REMARKS.—Records fair. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	29	47	40	40	40	52	37	63	29	21	16
2	36	25	49	40	40	40	58	39	64	30	20	19
3	36	26	32	40	40	40	48	58	61	32	19	19
4	38	28	38	40	40	40	42	51	63	30	19	21
5	44	25	39	40	40	45	48	65	51	32	19	17
6	82	25	35	40	40	50	40	100	49	33	19	17
7	90	24	41	40	40	50	38	73	54	34	18	17
8	85	28	40	40	40	50	44	60	60	33	18	15
9	109	24	40	40	40	50	30	61	58	31	17	17
10	61	25	40	40	40	50	37	114	56	30	17	17
11	44	25	40	40	40	55	53	83	46	31	17	15
12	49	28	40	40	40	55	48	66	45	22	17	14
13	48	28	40	40	40	55	48	60	47	23	17	16
14	43	26	40	40	40	43	47	76	50	23	14	19
15	45	23	40	40	40	56	33	68	52	70	15	23
16	39	26	40	40	40	59	24	57	51	155	16	26
17	33	30	40	40	40	67	23	60	53	318	15	23
18	33	32	40	40	40	76	23	60	48	290	16	23
19	34	36	40	40	40	73	28	59	46	150	17	22
20	37	31	40	40	40	83	42	64	44	50	18	22
21	40	30	40	40	40	71	48	69	42	43	16	20
22	40	26	40	40	40	50	37	60	48	39	16	19
23	41	37	40	40	40	56	30	54	46	35	19	18
24	39	35	40	40	40	49	27	57	43	31	18	17
25	37	31	40	40	40	54	31	61	38	29	17	17
26	35	39	40	40	40	58	48	57	36	27	20	16
27	33	39	40	40	40	57	73	58	37	26	18	16
28	32	41	40	40	40	54	43	55	39	25	13	14
29	36	37	40	40	-----	52	36	55	33	24	13	17
30	33	43	40	40	-----	53	38	54	29	23	15	14
31	29	-----	40	40	-----	55	-----	60	-----	22	16	-----
TOTAL	1,417	902	1,241	1,240	1,120	1,686	1,217	1,951	1,453	1,770	530	546
MEAN	45.7	30.1	40.0	40.0	40.0	54.4	40.6	62.9	48.4	57.1	17.1	18.2
MAX	109	43	49	40	40	83	73	114	64	318	21	26
MIN	29	23	32	40	40	40	23	37	29	22	13	14
AC-FT	2,810	1,790	2,460	2,460	2,220	3,340	2,410	3,870	2,880	3,510	1,050	1,080
CAL YR 1973	TOTAL 50,481		MEAN 138	MAX 1,210	MIN 23	AC-FT 100,100						
WTR YR 1974	TOTAL 15,073		MEAN 41.3	MAX 318	MIN 13	AC-FT 29,900						

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LOCATION.--Lat 39°25'16", long 110°38'44", in SW¼ sec.24, T.16 S., R.11 E., Emery County on the left bank 2,000 ft (610 m) above the mouth, and 9.5 miles (15.3 km) southeast of Wellington.

PERIOD OF RECORD.—May 1971 to current year.

EXTREMES.—Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) July 20 (gage height, 6.50 ft or 1.981 m) from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of runoff comparisons with nearby stations; minimum, 5.7 ft³/s (0.16 m³/s) Sept. 12.
Period of record: Maximum discharge, 1,840 ft³/s (52.1 m³/s) Oct. 18, 1972 (gage height, 6.60 ft or 2.012 m, from floodmarks) from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of runoff comparisons with nearby stations; minimum, 0.50 ft³/s (0.014 m³/s) Aug. 23, 1972.

REMARKS.--Records good except for winter period which are fair. Diversions above station for irrigation.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	22	16	10	8.0	10	16	19	31	22	15	11
2	30	24	16	10	8.0	10	10	27	31	19	13	9.3
3	30	26	16	10	8.0	10	14	22	34	14	17	8.7
4	30	28	16	10	8.0	10	13	21	31	12	19	11
5	30	30	16	10	8.0	10	12	25	23	16	15	9.6
6	30	31	15	8.0	8.0	10	9.3	18	23	18	14	9.7
7	30	35	14	8.0	8.0	10	10	15	24	20	13	6.9
8	30	29	14	8.0	8.0	10	9.1	17	26	17	12	7.8
9	30	28	14	8.0	8.0	10	12	14	24	14	13	8.4
10	30	26	14	8.0	8.0	10	8.4	14	24	13	13	6.5
11	31	29	14	8.0	8.0	10	21	15	19	13	11	7.0
12	38	30	14	8.0	8.0	10	15	12	19	12	12	6.5
13	35	25	14	8.0	8.0	10	13	12	20	11	13	8.3
14	31	25	14	8.0	8.0	10	9.7	15	20	9.2	12	11
15	30	25	14	8.0	8.0	10	10	13	19	12	11	9.7
16	27	22	14	8.0	8.0	10	12	14	20	38	11	8.5
17	24	24	14	8.0	8.0	11	26	18	22	28	11	9.3
18	24	24	14	8.0	8.0	12	24	20	20	35	10	8.4
19	24	27	14	8.0	8.0	11	24	18	19	23	12	7.4
20	26	26	14	8.0	8.0	11	28	20	20	60	10	6.6
21	26	24	14	8.0	8.0	11	30	21	19	29	9.1	8.8
22	26	25	14	8.0	8.0	11	19	18	17	26	9.7	10
23	25	20	14	8.0	8.0	11	16	21	16	52	11	11
24	22	29	14	8.0	8.0	11	22	22	16	27	9.3	14
25	33	20	14	8.0	8.0	11	22	23	16	21	8.9	12
26	26	18	13	8.0	8.0	16	32	22	16	20	9.7	10
27	24	24	12	8.0	8.0	18	26	21	15	20	11	11
28	22	17	11	8.0	8.0	22	17	20	16	19	11	11
29	21	17	10	8.0	-----	24	14	23	21	19	11	11
30	21	16	10	8.0	-----	22	14	25	23	17	9.5	13
31	21	-----	10	8.0	-----	21	-----	29	-----	15	9.1	-----
TOTAL	857	746	427	258.0	224.0	383	508.5	595	644	671.2	366.3	283.4
MEAN	27.6	24.9	13.8	8.32	8.00	12.4	17.0	19.2	21.5	21.7	11.8	9.45
MAX	38	35	16	10	8.0	24	32	29	34	60	19	14
MIN	21	16	10	8.0	8.0	10	8.4	12	15	9.2	8.9	6.5
AC-FT	1,700	1,480	847	512	444	760	1,010	1,180	1,280	1,330	727	562
CAL YR 1973	TOTAL	9,996.5	MEAN	27.4	MAX	176	MIN	7.5	AC-FT	19,830		
WTR YR 1974	TOTAL	5,963.4	MEAN	16.3	MAX	60	MIN	6.5	AC-FT	11,830		

GREEN RIVER BASIN

09314500 Price River at Woodside, Utah

LOCATION.--Lat 39°15'50", long 110°20'45", in SW¼SE¼SE¼ sec.9, T.18 S., R.14 E., Emery County, on left downstream wing wall of old highway bridge, 200 ft (61 m) downstream from railroad bridge at Woodside, and 22 miles (35 km) upstream from mouth.

DRAINAGE AREA.--1,500 mi² (3,880 km²), approximately.

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,400 m) by barometer. September 1909 to August 1911, reference point at site about 100 ft (30 m) upstream at different datum. Nov. 27, 1945, to Oct. 16, 1954, water-stage recorder at site 15 ft (4.6 m) downstream at datum 1.85 ft (0.564 m) higher.

AVERAGE DISCHARGE.--28 years, 102 ft³/s (2.889 m³/s), 73,900 acre-ft/yr (91.1 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 300 ft³/s (8.50 m³/s) July 19; maximum gage height, 9.50 ft (2.896 m) Mar. 3 (backwater from ice); minimum discharge, 9.6 ft³/s (0.27 m³/s) Sept. 13.

Period of record: Maximum discharge, 8,500 ft³/s (241 m³/s) Sept. 10, 1961 (gage height, 9.74 ft or 2.969 m), from rating curve extended above 6,300 ft³/s (178 m³/s); no flow for several days in 1960, 1961, and part of July 8, 1963.

REMARKS.--Records good, except for winter period and period of missing record, which are poor. Diversions above station for irrigation of about 18,000 acres (72.8 km²). Flow affected by storage in Scofield Reservoir, usable capacity 65,780 acre-ft (81.1 hm³), since 1926 (see station 09311000). Records of chemical analysis and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	54	50	78	60	70	50	47	82	42	26	12
2	60	53	50	61	60	70	45	51	85	40	25	12
3	60	53	50	60	60	70	43	62	88	39	24	14
4	60	56	50	60	60	70	40	71	90	37	23	13
5	60	59	50	60	60	70	36	66	86	33	22	17
6	60	59	50	60	60	70	37	84	68	35	22	17
7	65	61	50	60	60	72	33	100	66	42	21	16
8	80	62	50	60	60	75	28	80	70	45	21	15
9	95	57	50	60	60	82	33	80	76	42	20	12
10	100	55	50	60	60	78	28	70	76	35	20	13
11	99	55	48	60	60	73	35	107	70	34	20	12
12	88	54	56	60	60	65	63	93	55	27	19	11
13	85	55	63	60	60	64	59	71	53	26	19	11
14	81	51	65	60	60	62	60	68	55	26	18	12
15	76	49	46	60	60	54	60	81	57	26	18	20
16	76	47	54	60	60	52	51	73	57	50	16	26
17	72	47	67	60	60	57	43	65	58	90	16	25
18	67	58	69	60	60	61	56	73	66	150	16	23
19	61	61	63	60	60	65	59	76	56	300	15	20
20	62	60	47	60	60	63	64	74	54	180	18	18
21	65	57	54	60	60	64	73	85	52	120	18	15
22	66	53	88	60	60	55	75	89	49	70	16	14
23	67	51	105	60	60	41	56	77	50	50	16	17
24	67	51	81	60	60	47	46	72	49	45	18	18
25	65	59	67	60	60	47	48	76	48	40	19	20
26	71	47	57	60	62	42	49	78	43	35	16	21
27	65	49	59	60	66	46	75	74	41	34	16	17
28	61	43	71	60	70	49	82	72	40	32	19	15
29	58	54	101	60	-----	50	56	66	42	31	17	15
30	58	51	77	60	-----	51	47	69	43	29	16	16
31	57	-----	76	60	-----	48	-----	71	-----	28	14	-----
TOTAL	2,167	1,621	1,914	1,879	1,698	1,883	1,530	2,321	1,825	1,813	584	487
MEAN	69.9	54.0	61.7	60.6	60.6	60.7	51.0	74.9	60.8	58.5	18.8	16.2
MAX	100	62	105	78	70	82	82	107	90	300	26	26
MIN	57	43	46	60	60	41	28	47	40	26	14	11
AC-FT	4,300	3,220	3,800	3,730	3,370	3,730	3,030	4,600	3,620	3,600	1,160	966
CAL YR 1973	TOTAL 60,926 MEAN 167 MAX 1,260 MIN 40 AC-FT 120,800											
WTR YR 1974	TOTAL 19,722 MEAN 54.0 MAX 300 MIN 11 AC-FT 39,120											

PEAK DISCHARGE (BASE, 2,000 CFS). No peak above base.

NOTE.--No gage-height record July 12 to Aug. 13.

09315000 Green River at Green River, Utah

LOCATION.--Lat 38°59'10", long 110°09'02", in NW¼NW¼SW¼ sec.15, T.21 S., R.16 E., Emery County, on right bank 100 ft (30 m) upstream from site of old highway bridge, 500 ft (152 m) upstream from railroad bridge, 1 mile (2 km) southeast of town of Green River, 22 miles (35 km) upstream from San Rafael River, at mile 117.4 (188.9 km) upstream from mouth.

DRAINAGE AREA.--40,600 mi² (105,200 km²) approximately.

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft (1,231.447 m) above mean sea level. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 miles (11 km) of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 miles (11 km) downstream at different datum. June 21 to Sept. 18, 1924, chain gage and Sept. 19, 1924, to May 7, 1947, water-stage recorder, at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--75 years, 6,359 ft³/s (180.1 m³/s) 4,607,000 acre-ft/yr (5.68 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 27,600 ft³/s (782 m³/s) May 14 (gage height, 11.99 ft or 3.655 m); minimum discharge, 1,720 ft³/s (48.7 m³/s) Jan. 5 (gage height, 5.97 ft or 1.820 m).

Period of record: Maximum discharge, 68,100 ft³/s (1,930 m³/s) June 27, 1917 (gage height, 14.53 ft or 4.429 m, site and datum then in use); minimum, 255 ft³/s (7.22 m³/s) Nov. 26, 1931; minimum gage height, 4.08 ft (1.244 m) Aug. 1, Dec. 5, 1934.

REMARKS.--Records good. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962. Records of chemical analysis, water temperatures, and suspended-sediment loads for the water year 1974 will be published in Part 2 of this report.

REVISIONS(WATER YEARS).--WSP 918: 1895-1900.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,900	3,610	5,500	4,070	2,500	2,510	3,810	18,400	20,800	8,570	3,060	2,740
2	2,840	3,230	4,900	3,960	2,660	2,440	4,390	14,700	20,900	8,050	2,840	2,550
3	2,950	3,630	4,080	3,120	2,740	2,760	4,690	13,200	20,500	7,440	2,720	2,080
4	3,430	3,670	4,000	2,600	2,700	2,870	4,870	13,100	18,700	5,980	2,680	2,330
5	2,870	4,490	4,240	2,030	2,800	3,060	5,320	15,100	17,400	6,260	2,570	2,390
6	3,050	4,670	3,810	3,140	2,840	3,670	5,500	16,000	17,000	6,340	2,910	2,340
7	3,680	4,520	3,310	4,760	2,820	3,840	4,930	15,300	16,600	5,500	3,940	2,240
8	4,060	3,800	2,750	5,360	2,720	4,220	4,390	16,700	16,100	4,620	3,860	2,100
9	4,000	3,730	3,000	6,090	2,720	5,150	4,000	19,500	18,400	4,340	4,110	2,240
10	3,650	4,150	3,220	6,080	2,640	5,680	3,910	21,200	20,400	4,310	4,060	3,020
11	2,850	4,280	3,690	6,030	2,620	5,600	3,710	23,100	17,800	3,710	3,430	3,470
12	3,050	4,320	3,940	6,600	2,570	5,560	3,750	25,000	15,500	4,030	3,250	3,380
13	4,030	4,690	3,920	6,530	2,520	5,740	3,870	25,900	14,600	4,170	3,240	3,430
14	4,460	4,940	4,160	5,170	2,480	6,200	3,760	26,800	13,800	4,060	3,360	3,850
15	4,600	4,430	4,790	3,710	2,570	7,460	4,300	26,600	13,400	3,640	3,190	4,210
16	4,490	3,920	4,770	3,740	2,640	7,850	5,940	23,700	13,200	3,260	3,160	3,910
17	4,020	4,310	4,480	3,360	2,770	6,710	5,900	20,500	13,600	3,340	3,090	3,880
18	3,620	4,410	4,160	3,620	2,800	6,050	4,970	18,500	13,600	3,230	2,910	3,740
19	3,240	4,670	4,500	3,390	2,740	5,960	4,660	19,500	13,400	3,570	3,110	3,510
20	3,960	4,900	4,730	3,200	2,600	5,590	4,390	20,400	14,400	3,450	3,080	3,460
21	3,950	5,030	4,540	3,020	2,840	5,420	4,390	21,000	15,300	3,620	3,090	3,620
22	4,330	4,160	4,580	3,050	2,840	5,710	4,780	21,200	14,900	2,440	2,970	3,480
23	5,000	3,770	3,880	2,870	2,970	5,880	6,250	21,600	14,100	2,590	2,600	3,480
24	4,500	4,800	3,060	2,730	2,820	5,820	8,040	19,600	13,300	3,970	3,150	2,900
25	3,820	5,010	2,840	2,510	2,800	5,280	7,850	16,600	12,300	3,600	3,050	2,400
26	3,590	4,490	3,640	2,460	2,700	4,710	7,330	15,400	11,100	3,400	3,120	2,130
27	3,620	3,790	3,860	2,570	2,750	4,320	7,560	15,000	10,000	3,780	3,000	1,920
28	4,150	4,220	3,150	2,660	2,610	4,040	9,970	15,200	10,100	4,020	3,090	2,520
29	4,030	4,390	2,770	3,170	-----	3,860	14,600	16,800	9,520	3,550	2,980	2,050
30	3,780	4,720	2,450	2,670	-----	3,680	17,900	18,600	9,040	3,330	2,560	1,900
31	3,890	-----	3,590	2,550	-----	3,670	-----	20,200	-----	3,300	2,810	-----
TOTAL	116,410	128,750	120,310	116,460	75,780	151,310	179,740	594,400	449,760	135,470	96,990	87,270
MEAN	3,755	4,292	3,881	3,757	2,706	4,881	5,991	19,170	14,990	4,370	3,129	2,909
MAX	5,000	5,030	5,500	6,600	2,970	7,850	17,900	26,800	20,900	8,570	4,110	4,210
MIN	2,840	3,230	2,450	2,030	2,480	2,440	3,710	13,100	9,040	2,440	2,560	1,900
AC-FT	230,900	255,400	238,600	231,000	150,300	300,100	356,500	1,179,400	892,100	268,700	192,400	173,100
CAL YR 1973	TOTAL 2,618,150 MEAN 7,173 MAX 30,300 MIN 2,450 AC-FT 5,193,000											
WTR YR 1974	TOTAL 2,252,650 MEAN 6,172 MAX 26,800 MIN 1,900 AC-FT 4,468,000											

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-30	2400	10.25	19,100	6-2	2000	10.69	21,100
5-14	2100	11.99	27,600	6-10	0900	10.67	21,000

GREEN RIVER BASIN

09319000 Ephraim tunnel near Ephraim, Utah
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE¼SE¼SE¼ sec.14, T.17 S., R.4 E., Sanpete County, at east tunnel portal, 9 miles (14 km) east of Ephraim.

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft (2,955.006 m) above mean sea level. (Levels by U.S. Geological Survey, Topographic Division.)

EXTREMES.--Current year: Maximum discharge, 102 ft³/s (2.89 m³/s) May 29 (gage height, 4.54 ft or 1.384 m); minimum, no flow some days.

Period of record: Maximum discharge, 142 ft³/s (4.02 m³/s) June 6, 1964 (gage height, 5.43 ft or 1.655 m); no flow at times in some years.

REMARKS.--Records fair. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River basin to San Pitch River in The Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	68	11	12	.30
2								0	65	10	5.1	.26
3								0	53	9.8	4.8	.24
4								0	54	8.9	3.8	.24
5								0	56	8.1	3.8	.24
6								0	48	7.7	4.1	.24
7								0	38	7.2	3.9	.24
8								0	31	6.7	3.8	.24
9								.28	27	6.4	3.4	.24
10								4.3	29	6.1	3.2	.24
11								14	36	5.8	3.0	.24
12								27	48	5.5	2.8	.24
13								37	51	5.4	2.6	.24
14								25	50	5.3	2.4	.22
15								52	45	5.6	2.3	.21
16								65	41	6.0	2.2	.20
17								64	34	6.3	1.9	.20
18								50	33	5.5	1.8	.20
19								38	36	7.6	1.8	.14
20								28	33	6.3	1.6	0
21								22	26	6.0	1.3	0
22								17	25	5.9	1.1	0
23								18	23	5.0	1.0	0
24								23	21	4.6	.88	0
25								43	20	4.5	.78	0
26								77	18	4.2	.68	0
27								86	16	4.2	.58	0
28								89	14	4.2	.50	0
29								86	13	4.0	.46	0
30								82	12	4.5	.39	0
31		-----			-----		-----	74	-----	7.4	.34	-----
TOTAL								1,021.58	1,064	195.7	78.31	4.37
MEAN								33.0	35.5	6.31	2.53	.15
MAX								89	68	11	12	.30
MIN								0	12	4.0	.34	0
AC-FT								2,030	2,110	388	155	8.7

GREEN RIVER BASIN

89

09323000 Spring City tunnel near Spring City, Utah
(Transmountain diversion)

LOCATION.—Lat 39°25'34", long 111°21'51", in NW¼SW¼SE¼ sec.16, T.16 S., R.5 E., Sanpete County, at west portal of tunnel, 11 miles (18 km) east of Spring City.

PERIOD OF RECORD.—October 1949 to current year. Monthly discharges only for October 1949 to September 1960; figures of daily discharge available in Salt Lake City District office, Geological Survey. Seasonal records only since October 1971.

GAGE.—Water-stage recorder. Datum of gage is 9,838 ft (2,999 m) above mean sea level (by plane table closed traverse by U.S. Geological Survey, Topographic Division). Prior to Aug. 24, 1960, at datum about 0.3 ft (0.09 m) higher.

EXTREMES.—Current year: Maximum discharge, 46 ft³/s (1.30 m³/s) May 28 (gage height, 1.62 ft or 0.494 m); no flow at times.
Period of record: Maximum discharge, 111 ft³/s (3.14 m³/s) July 23, 1965; no flow at times in most years.

REMARKS.—Records good. Tunnel diverts from Cottonwood Creek drainage in Colorado River basin to San Pitch River in the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	25	6.7	4.9	1.3
2								0	24	6.2	3.6	1.3
3								0	20	5.2	2.7	1.3
4								0	21	5.1	2.5	1.3
5								0	18	4.9	2.5	1.3
6								1.5	12	4.7	2.4	1.1
7								2.5	10	4.6	2.3	1.1
8								3.5	8.7	4.5	2.3	1.1
9								5.0	8.1	4.1	2.3	1.1
10								8.0	9.0	3.8	2.4	1.0
11								10	13	3.8	2.3	.90
12								12	16	3.6	2.3	1.0
13								12	16	3.2	2.2	.90
14								11	16	2.9	2.0	.90
15								11	15	2.8	1.9	.95
16								12	23	4.2	1.8	1.1
17								15	27	4.3	1.8	1.1
18								23	23	3.2	1.7	1.1
19								17	22	2.8	1.5	1.0
20								12	19	2.7	1.5	.90
21								9.6	14	3.9	1.5	.90
22								8.2	12	3.6	1.5	.90
23								8.5	11	4.7	1.5	.90
24								11	10	3.1	1.3	.90
25								20	9.7	2.7	1.3	.86
26								31	9.2	3.0	1.3	.55
27								36	8.9	2.5	1.3	.55
28								38	8.2	2.4	1.3	.55
29					-----			31	7.7	2.3	1.3	.55
30					-----			26	7.4	2.3	1.3	.55
31		-----			-----		-----	25	-----	4.7	1.3	-----
TOTAL								399.8	443.9	118.5	61.8	28.96
MEAN								12.9	14.8	3.82	1.99	.97
MAX								38	27	6.7	4.9	1.3
MIN								0	7.4	2.3	1.3	.55
AC-FT								793	880	235	123	57

GREEN RIVER BASIN

09323900 Joes Valley Reservoir near Orangeville, Utah

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¼NE¼ sec.5, T.18 S., R.6 E., Emery County, on Seeley Creek 5 miles (8 km) upstream from Cottonwood Creek, and 12 miles (19 km) west of Orangeville.

DRAINAGE AREA.--145 sq mi (376 km²), approximately.

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

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is at mean sea level (level by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 63,760 acre-ft (78.6 hm³) June 21, 24, 25 (elevation, 6,990.8 ft or 2,130.80 m); minimum observed, 42,730 acre-ft (52.7 hm³) Nov. 2.

Period of record: Maximum contents observed, 64,830 acre-ft (79.9 hm³) June 4, 5, 1970; minimum observed since reservoir was first filled, 7,710 acre-ft (9.5 hm³) Oct. 1, 1966.

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft (67.3 hm³) between elevations 6,910.0 and 6,989.7 ft (2,106.17 and 2,130.46 m) above mean sea level. Dead storage, 870 acre-ft (1.1 hm³) between elevations 6,817.0 and 6,866.5 ft (2,077.82 and 2,092.91 m). Inactive storage, 6,980 acre-ft (8.6 hm³) between elevations 6,866.5 and 6,910.0 ft (2,092.91 and 2,106.17 m). Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records furnished by Bureau of Reclamation.

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

6,970	42,010	6,990	62,810
6,975	46,660	6,992	65,190
6,980	51,700		

CONTENTS, IN ACRE-FEET, AT 1000, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44,940					46,280	47,050			62,580		
2		42,730								62,460	55,550	
3			43,640					45,890	60,490			47,440
4					45,420	46,370						
5		42,820					47,150			61,530	55,000	
6								45,990				46,660
7				44,660					62,230			
8	43,920					46,570	46,860			60,490		
9												
10			43,820						62,460			45,890
11					45,610	46,660						
12		43,270								59,120	53,280	
13								48,830				45,230
14				44,850					63,130			
15	43,360					46,860	47,050			58,330		
16										57,990	52,220	44,760
17			44,010					51,070	63,640			
18						46,950						
19					45,990					57,210	51,380	
20		43,360						52,220	63,640			44,380
21				45,130					63,760			
22						46,950	46,570			56,760		
23	43,090										50,150	44,010
24			44,200					53,060	63,760			
25					45,990	46,950			63,760			
26		43,550					46,370		63,640	56,540	49,440	
27									63,400			43,550
28				45,320	46,210			55,330	63,170			
29	42,820				-----	47,050	46,080			56,100		
30		^a 43,600			-----		^a 46,030	57,320	^a 62,780		48,430	43,090
31	^a 42,780	-----	44,280	^a 45,360	-----	^a 47,050	-----	58,440	-----	^a 55,820	^a 48,180	-----
(†)	-----	-----	6,972.6	-----	-----	-----	-----	6,986.2	-----	-----	-----	6,971.2
(‡)	-2,470	+820	+680	+1,080	+850	+840	-1,020	+12,410	+4,340	-6,960	-7,640	-5,090

CAL YR 1973. ‡ +2,180

WTR YR 1974. ‡ -2,160

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

^a No gage-height reading; contents interpolated

09326500 Ferron Creek (upper station) near Ferron, Utah

LOCATION.--Lat 39°06'15", long 111°12'47", in SW¼SE¼ sec.2, T.20 S., R.6 E., Emery County, on right bank 1.8 miles (2.9 km) upstream from Dry Wash and 4.5 miles (7.2 km) west of Ferron.

DRAINAGE AREA.--138 mi² (357 km²).

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 miles (3 km) downstream published as Ferron Creek near Ferron, April 1909 to October 1911, not equivalent because of diversions 1.5 miles (2.4 km) downstream from present site.

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft (1,893 m) from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 miles (2.4 km) downstream at different datum.

AVERAGE DISCHARGE.--39 years, 67.1 ft³/s (1,900 m³/s), 48,610 acre-ft/yr (59.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 828 ft³/s (23.4 m³/s) July 17 (gage height, 4.70 ft or 1.433 m); minimum daily, 10 ft³/s (0.28 m³/s) many days.

Period of record: Maximum discharge observed, 4,180 ft³/s (118 m³/s) Aug. 27, 1952 (gage height, 9.71 ft or 2.960 m, site and datum then in use), from rating table extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurements at gage heights 8.70 ft (2.652 m) and 9.71 ft (2.960 m), site and datum then in use; minimum observed, 1 ft³/s (0.028 m³/s) Mar. 22, 23, 1912, Mar. 11, Nov. 18, 1959, site then in use.

REMARKS.--Records good except those for winter period, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 miles (2.4 km) below station.

REVISIONS(WATER YEARS).--WSP 1243: 1951(P). WSP 1313: 1920(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	10	10	10	11	13	27	394	98	36	18
2	17	14	10	10	10	11	14	32	368	95	37	17
3	17	15	10	10	10	11	10	32	317	91	40	17
4	16	11	10	10	10	11	11	58	335	86	30	17
5	17	14	10	10	10	11	11	68	346	84	31	17
6	17	16	10	10	10	11	12	100	319	82	33	17
7	16	15	10	10	10	11	10	113	286	82	34	16
8	16	15	10	10	10	11	11	220	258	81	33	16
9	17	14	10	10	10	11	15	306	233	82	32	16
10	17	14	10	10	10	11	13	296	237	76	30	16
11	16	14	10	10	10	12	15	264	243	72	28	16
12	15	14	10	10	10	12	15	291	226	67	27	17
13	16	14	10	10	10	12	12	273	220	64	24	17
14	16	13	10	10	10	12	15	194	212	59	24	19
15	15	13	10	10	10	12	17	237	200	55	23	20
16	15	13	10	10	10	12	23	306	185	58	23	18
17	14	12	10	10	10	12	29	291	177	109	23	17
18	14	11	10	10	10	12	33	229	216	110	22	17
19	14	10	10	10	10	12	30	192	218	56	21	16
20	14	10	10	10	10	12	24	162	206	75	22	16
21	13	10	10	10	10	12	24	150	192	56	21	15
22	13	10	10	10	10	12	31	144	175	35	20	15
23	14	10	10	10	11	12	46	145	165	32	22	15
24	13	10	10	10	11	12	53	157	154	31	19	14
25	14	10	10	10	11	12	51	208	152	31	20	14
26	15	10	10	10	11	12	38	307	138	31	19	14
27	13	10	10	10	11	13	31	382	124	33	19	14
28	14	10	10	10	11	14	26	438	113	37	20	14
29	14	10	10	10	-----	13	28	451	107	34	19	14
30	11	10	10	10	-----	17	28	434	103	35	18	14
31	16	-----	10	10	-----	17	-----	412	-----	35	18	-----
TOTAL	466	368	310	310	286	376	689	6,919	6,619	1,972	788	483
MEAN	15.0	12.3	10.0	10.0	10.2	12.1	23.0	223	221	63.6	25.4	16.1
MAX	17	16	10	10	11	17	53	451	394	110	40	20
MIN	11	10	10	10	10	11	10	27	103	31	18	14
AC-FT	924	730	615	615	567	746	1,370	13,720	13,130	3,910	1,560	958
CAL YR 1973	TOTAL 26,628.0	MEAN 73.0	MAX 536	MIN 8.0	AC-FT 52,820							
WTR YR 1974	TOTAL 19,586.0	MEAN 53.7	MAX 451	MIN 10	AC-FT 38,850							

PEAK DISCHARGE (BASE, 600 CFS).--July 17 (1500) 828 cfs (4.70 ft).

NOTE.--No gage-height record Nov. 16 to Dec. 16, Jan. 2 to Feb. 4.

GREEN RIVER BASIN

09328000 San Rafael River near Castle Dale, Utah

LOCATION.—Lat 39°08'37", long 111°53'50", in SE¼NW¼ sec. 27, T.19 S., R.9 E., Emery County, on left bank 1.7 mile (2.7 km) downstream from Ferron Creek and 8.3 miles (13.4 km) southeast of Castle Dale.

DRAINAGE AREA.—930 mi² (241 km²), approximately.

PERIOD OF RECORD.—October 1947 to September 1964, August 1972 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,320 ft (1,620 m) from topographic map. Prior to July 11, 1956, at site 0.7 mile (1.1 km) upstream at different datum. July 11, 1956 to September 30, 1964, at site 0.6 mile (1.0 km) upstream at different datum.

AVERAGE DISCHARGE.—19 years (1947-64, 1972-74) 113 ft³/s (3,200 m³/s), 81,870 acre-ft/yr (101 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 957 ft³/s (27.1 m³/s) July 18 (gage height, 5.02 ft or 1.530 m); minimum, 8.2 ft³/s (0.23 m³/s) Mar. 10.

Period of record: Maximum discharge, 4,510 ft³/s (128 m³/s) June 3, 1952 (gage height, 7.56 ft or 2.304 m), site and datum then in use); minimum recorded, 1.3 ft³/s (0.036 m³/s) Sept. 4, 6, 1956.

REMARKS.—Records fair. Diversions for irrigation above station, including transmountain diversions to Sevier Lake basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	72	40	34	32	45	47	33	118	58	61	54
2	65	65	40	34	32	65	46	30	126	56	69	54
3	65	65	40	34	32	63	42	25	107	56	61	58
4	65	57	40	34	32	57	36	29	90	56	56	65
5	65	54	40	34	32	52	36	38	94	56	49	60
6	65	54	40	34	32	50	39	37	88	57	53	57
7	70	52	40	34	32	50	52	36	93	65	54	48
8	80	48	40	34	32	52	53	48	93	85	55	50
9	90	44	40	34	32	60	49	55	97	74	57	55
10	80	45	40	34	32	70	36	61	95	78	62	55
11	80	44	40	32	32	87	33	61	97	64	67	49
12	80	44	40	32	32	71	31	62	95	55	63	40
13	80	44	40	32	32	67	29	75	106	57	61	46
14	80	43	40	32	32	59	29	82	129	56	52	59
15	81	42	40	32	32	56	27	74	119	52	50	43
16	78	46	40	32	35	54	28	76	139	149	45	34
17	75	47	40	32	35	56	26	85	147	160	47	60
18	73	50	40	32	35	55	26	80	133	239	42	60
19	72	37	40	32	35	51	27	84	125	333	46	54
20	73	51	40	32	35	51	35	97	120	209	45	46
21	70	49	37	32	35	46	33	103	110	154	55	41
22	71	52	37	32	35	42	32	101	95	98	59	41
23	68	44	37	32	35	43	33	111	80	89	61	43
24	67	40	37	32	35	44	34	116	75	92	61	44
25	70	40	37	32	35	43	30	123	70	83	59	43
26	77	40	37	32	36	43	26	115	67	75	62	42
27	74	40	37	32	37	42	29	119	64	75	64	41
28	72	40	37	32	38	38	35	112	62	75	60	41
29	76	40	37	32	-----	35	36	104	60	72	53	45
30	76	40	37	32	-----	36	36	109	59	68	50	44
31	75	-----	37	32	-----	42	-----	112	-----	59	50	-----
TOTAL	2,278	1,429	1,207	1,012	941	1,625	1,051	2,394	2,953	2,955	1,729	1,472
MEAN	73.5	47.6	38.9	32.6	33.6	52.4	35.0	77.2	98.4	95.3	55.8	49.1
MAX	90	72	40	34	38	87	53	123	147	333	69	65
MIN	65	37	37	32	32	35	26	26	59	52	42	34
AC-FT	4,520	2,830	2,390	2,010	1,870	3,220	2,080	4,750	5,860	5,860	3,430	2,920

CAL YR 1973 TOTAL 55,212 MEAN 151 MAX 1,200 MIN 26 AC-FT 109,500
WTR YR 1974 TOTAL 21,046 MEAN 57.7 MAX 333 MIN 26 AC-FT 41,740

PEAK DISCHARGE (BASE, 1,000 CFS). No peak above base

09328500 San Rafael River near Green River, Utah

LOCATION.—Lat 38°52'20", long 110°22'20", in NW¼NE¼SW¼ sec.27, T.22 S., R.14 E., Emery County, on left bank 10 ft (3 m) upstream from bridge on State Highway 24, 15 miles (24 km) southwest of Green River, and 35 miles (56 km) upstream from mouth.

DRAINAGE AREA.—1,670 mi² (4,330 km²), approximately.

RECORDS AVAILABLE.—May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m) by barometer. May 5, 1909 to Sept. 10, 1918, staff gage and Sept. 10, 1919 to July 10, 1920, tape-weight gage, at approximately present site at different datum. Nov. 29, 1945 to Sept. 9, 1947, water-stage recorder at site 400 ft (122 m) downstream at different datum, Sept. 10, 1947 to Apr. 16, 1950, at site 50 ft (15 m) downstream at different datum, Apr. 17, 1950 to June 21, 1954, at present site at datum 6.35 ft (1.935 m) higher, June 22, 1954 to Sept. 30, 1955, at present site at datum 5.35 ft (1.631 m) higher, Oct. 1, 1955 to Feb. 14, 1958, at present site at datum 4.35 ft (1.326 m) higher, Feb. 15, 1958 to Sept. 19, 1962, at present site at datum 1.35 ft (0.411 m) higher, Sept. 1962 to July 1968, at present site at datum 0.95 ft (0.290 m) lower, and July 1968 to March 1970 at present site at datum 0.55 ft (0.168 m) lower.

AVERAGE DISCHARGE.—38 years (1909-18, 1945-74), 156 ft³/s (4.418 m³/s), 113,000 acre-ft/yr (139 hm³/yr).

EXTREMES.—Current year: Maximum discharge not determined, probably occurred July 20; minimum, 21 ft³/s (0.59 m³/s) Nov. 29.

Period of record: Maximum discharge, 12,000 ft³/s (340 m³/s) Sept. 2, 1909 (gage height, 12.7 ft or 3.87 m, site and datum then in use), from rating curve extended above 3,100 ft³/s (87.8 m³/s) by logarithmic plotting; no flow at times in some years.

REMARKS.—Records good except for period of no gage-height record which is poor. Diversions above station for irrigation of about 42,000 acres (170 km²). Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900). Records of chemical analysis and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	76	50	35	32	40	37	32	88	38	51	30
2	71	77	54	35	32	46	48	30	92	38	56	29
3	70	73	58	35	32	63	46	28	96	38	53	32
4	68	70	52	34	32	55	44	26	85	38	46	34
5	67	68	47	34	32	49	38	24	80	38	44	38
6	69	60	40	34	32	48	37	28	74	38	45	44
7	69	59	38	34	32	49	37	31	80	39	46	37
8	70	57	40	33	32	50	42	29	80	41	48	32
9	73	54	44	33	32	51	47	30	80	42	50	28
10	84	51	39	33	32	61	48	38	80	49	52	28
11	92	48	40	33	32	70	41	39	80	50	55	32
12	89	48	40	32	32	79	36	43	81	50	55	33
13	88	47	40	32	32	70	33	45	72	40	47	29
14	84	46	40	32	32	61	33	45	79	34	36	32
15	85	48	39	32	32	56	32	65	86	58	39	38
16	83	48	39	32	35	54	28	58	93	97	35	70
17	83	49	39	32	35	56	27	50	83	100	33	60
18	82	54	39	32	35	54	27	61	108	140	30	55
19	80	60	38	32	35	51	26	61	101	190	30	52
20	75	61	38	32	35	50	26	60	87	300	28	47
21	77	61	38	32	35	46	30	66	77	200	30	41
22	75	56	38	32	35	44	33	84	64	150	31	37
23	75	55	37	32	35	41	30	77	52	110	38	35
24	73	49	37	32	35	39	30	81	45	80	40	35
25	72	48	37	32	35	40	31	84	46	70	41	35
26	72	54	37	32	37	39	29	88	44	66	40	35
27	75	52	36	32	37	38	26	95	44	65	39	33
28	77	46	36	32	37	38	25	92	42	62	42	34
29	75	39	36	32	-----	38	28	87	41	58	40	34
30	75	46	36	32	-----	35	31	82	38	54	38	35
31	77	-----	35	32	-----	33	-----	86	-----	47	32	-----
TOTAL	2,381	1,660	1,257	1,013	941	1,544	1,026	1,745	2,198	2,420	1,290	1,134
MEAN	76.8	55.3	40.5	32.7	33.6	49.8	34.2	56.3	73.3	78.1	41.6	37.8
MAX	92	77	58	35	37	79	48	95	108	300	56	70
MIN	67	39	35	32	32	33	25	24	38	34	28	28
AC-FT	4,720	3,290	2,490	2,010	1,870	3,060	2,040	3,460	4,360	4,800	2,560	2,250
CAL YR 1973	TOTAL 67,910 MEAN 186 MAX 1,680 MIN 21 AC-FT 134,700											
WTR YR 1974	TOTAL 18,609 MEAN 51.0 MAX 300 MIN 24 AC-FT 36,910											

PEAK DISCHARGE (BASE, 1,300 CFS). No peak above base.

NOTE.—No gage-height record Jan. 5 to Feb. 27.

DIRTY DEVIL RIVER BASIN

09329050 Seven Mile Creek near Fish Lake, Utah

LOCATION.--Lat 38°37'40", long 111°39'00", in SW¼ sec.13, T.25 S., R.2 E., Sevier County, on left bank 0.4 mile (0.6 km) upstream from bridge on State Highway 25, about 0.8 mile (1.3 km) upstream from mouth, and 4 miles (6 km) northeast of north end of Fish Lake.

DRAINAGE AREA.--25 sq mi (65 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (2,804 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 15.0 ft³/s (0.425 m³/s), 10,870 acre-ft/yr (13.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 206 ft³/s (5.83 m³/s) May 16 (gage height, 3.34 ft or 1.018 m); minimum, 3.6 ft³/s (0.136 m³/s) Oct. 29, result of freezeup.

Period of record: Maximum discharge, 215 ft³/s (6.09 m³/s) June 1, 1968 (gage height, 3.43 ft or 1.045 m); minimum, 2.0 ft³/s (0.057 m³/s) Oct. 23, 1965.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	9.2	9.2	9.0	8.7	9.2	33	50	15	15	9.6
2	10	11	7.3	9.2	8.5	8.7	6.3	41	46	14	17	9.5
3	10	9.8	8.2	9.0	9.0	8.7	5.8	44	43	14	14	9.6
4	10	11	9.8	9.0	9.0	8.2	7.1	53	41	14	12	9.7
5	10	12	9.5	9.2	8.7	8.7	8.5	57	41	14	12	12
6	10	11	9.2	9.2	9.0	8.7	9.5	64	40	13	12	10
7	10	11	9.2	9.5	8.7	8.7	9.8	73	37	13	12	10
8	10	11	9.2	9.2	8.7	8.5	9.5	96	37	13	12	9.8
9	10	10	9.0	9.2	8.7	8.5	9.5	117	33	13	13	9.9
10	11	10	9.0	9.0	8.7	8.7	9.2	141	30	13	12	10
11	12	10	9.0	8.7	8.7	8.5	8.8	138	29	12	11	9.6
12	12	10	8.7	9.2	9.0	8.7	7.8	137	27	12	11	9.6
13	14	9.5	9.2	9.2	9.0	8.7	7.8	123	26	12	11	9.8
14	13	9.6	9.0	9.2	8.7	8.7	8.1	96	25	12	11	11
15	11	9.6	9.2	9.2	8.7	8.7	8.4	124	25	15	11	11
16	11	9.4	9.2	9.2	8.7	9.8	9.0	144	24	15	11	11
17	11	9.2	9.2	9.2	8.7	10	9.6	125	23	18	11	10
18	10	9.1	7.5	9.2	8.7	10	10	100	22	21	10	9.9
19	10	9.1	9.0	9.2	8.7	9.5	11	75	21	17	10	9.8
20	10	9.1	9.5	9.2	6.9	9.2	11	56	20	16	10	9.5
21	10	9.1	9.5	9.0	8.2	9.0	11	50	19	15	10	9.5
22	9.9	9.3	9.5	8.7	9.5	8.7	11	51	19	17	10	9.8
23	9.7	9.5	8.7	9.2	9.0	7.5	12	52	18	16	10	10
24	9.8	9.5	9.2	9.2	8.7	10	13	59	17	14	10	10
25	9.8	9.5	9.2	9.0	8.7	9.2	14	73	17	15	10	10
26	10	9.5	9.2	9.2	8.7	9.2	18	81	16	14	10	9.9
27	10	9.5	9.2	9.0	8.7	9.0	26	78	16	13	9.8	9.5
28	9.9	9.5	9.2	9.0	8.7	9.0	24	69	15	12	9.7	9.4
29	7.9	9.5	9.2	9.0	-----	9.2	23	62	15	12	9.7	9.5
30	12	9.5	8.0	9.0	-----	9.5	25	57	15	12	9.6	9.5
31	13	-----	8.7	9.0	-----	8.2	-----	53	-----	13	9.5	-----
TOTAL	327.0	297.8	278.7	282.5	244.0	276.4	352.9	2,522	807	439	346.3	298.4
MEAN	10.5	9.93	8.99	9.11	8.71	8.92	11.8	81.4	26.9	14.2	11.2	9.95
MAX	14	12	9.8	9.5	9.5	10	26	144	50	21	17	12
MIN	7.9	9.1	7.3	8.7	6.9	7.5	5.8	33	15	12	9.5	9.4
AC-FT	649	591	553	560	484	548	700	5,000	1,600	871	687	592

CAL YR 1973 TOTAL 6,969.1 MEAN 19.1 MAX 147 MIN 5.5 AC-FT 13,820

WTR YR 1974 TOTAL 6,472.0 MEAN 17.7 MAX 144 MIN 5.8 AC-FT 12,840

PEAK DISCHARGE (BASE, 80 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-10	2000	3.16	178	5-25	2300	2.77	124
5-16	2200	3.34	206				

DIRTY DEVIL RIVER BASIN

95

09329900 Pine Creek near Bicknell, Utah

LOCATION.--Lat 38°16'10", long 111°35'00", in SE¼ sec.21, T.29 S., R.3 E., Wayne County, about 3.5 miles (5.6 km) upstream from mouth and 5.5 miles (8.9 km) southwest of Bicknell.

DRAINAGE AREA.--100 mi² (259 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,100 ft (2,164 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 3.99 ft³/s (0.113 m³/s), 2,890 acre-ft/yr (356,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 11 ft³/s (0.31 m³/s) Nov. 14 (gage height, 1.52 ft or 0.463 m); minimum discharge, 0.66 ft³/s (0.019 m³/s) Mar. 7, 8.

Period of record: Maximum discharge, 707 ft³/s (20.0 m³/s) Aug. 2, 1968 (gage height, 4.85 ft or 1.478 m), from estimate based on field survey of peak flow; no flow Feb. 5, 1972, result of freezeup.

REMARKS.--Records good except those for winter period, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.3	4.8	3.2	3.2	1.6	2.7	3.2	3.4	2.6	3.5	2.4
2	7.3	6.3	4.7	2.9	3.1	1.1	3.4	3.1	3.5	2.7	3.8	2.8
3	7.3	6.2	5.1	3.7	3.0	.98	3.5	3.0	3.4	2.8	3.6	2.9
4	7.3	6.4	5.4	4.5	3.2	1.0	3.3	3.4	3.4	2.9	3.3	3.0
5	7.4	6.2	5.8	5.2	3.1	1.1	3.0	3.3	3.2	2.8	3.1	3.2
6	7.2	6.3	6.6	5.9	3.0	.84	2.7	3.3	3.3	2.7	3.2	3.2
7	7.2	6.1	7.1	5.4	3.0	.75	2.7	3.3	3.2	2.8	3.1	3.0
8	7.4	6.0	6.7	4.9	3.1	.76	2.9	3.3	3.3	2.7	3.2	3.9
9	7.7	6.0	6.3	4.6	3.5	.76	2.7	3.2	3.5	2.6	3.2	3.4
10	8.3	6.0	6.1	4.4	3.5	.83	3.0	3.1	3.2	2.5	3.1	2.7
11	7.9	6.0	6.0	4.5	3.3	.79	3.0	3.1	2.9	2.7	3.1	3.0
12	7.5	5.9	6.0	4.2	3.3	.80	2.9	3.0	3.5	2.6	3.0	2.4
13	7.5	6.3	6.6	3.9	3.1	.89	3.6	3.1	2.7	2.8	2.9	2.6
14	7.4	6.3	5.2	3.8	3.3	1.0	3.3	3.1	3.5	2.9	2.9	3.3
15	7.3	6.2	5.2	3.7	3.1	1.6	3.3	3.0	3.2	3.3	2.8	3.6
16	7.3	6.2	5.2	3.7	3.1	2.9	3.0	3.0	2.8	3.1	2.9	2.9
17	7.0	6.2	5.3	3.8	3.0	2.8	2.9	2.6	2.7	3.5	2.8	2.8
18	6.8	5.7	5.0	3.6	3.2	2.7	2.8	3.3	2.8	3.5	2.9	2.8
19	6.9	5.6	5.0	3.6	3.0	2.6	3.2	3.2	2.7	5.2	2.8	2.9
20	6.8	5.4	5.5	3.5	2.9	2.5	3.3	3.4	2.7	4.6	2.9	2.8
21	6.9	5.2	6.2	3.4	2.7	2.9	3.1	3.5	2.7	3.7	2.9	2.8
22	6.7	5.2	6.0	3.0	2.5	2.7	3.1	3.3	2.9	3.3	3.1	2.7
23	6.4	5.2	5.7	3.3	2.4	2.6	2.9	3.5	2.6	3.2	2.9	2.9
24	6.8	5.2	5.0	3.2	2.2	3.1	3.0	3.5	2.6	3.5	2.9	2.7
25	6.9	5.2	4.8	3.4	2.3	2.7	3.1	3.5	3.2	3.1	3.2	2.8
26	6.8	5.1	5.0	3.3	2.4	2.6	3.1	3.4	2.1	3.1	2.8	3.0
27	6.8	5.0	5.2	3.3	2.4	2.6	3.2	3.4	2.6	3.0	2.8	3.0
28	6.8	5.0	5.5	3.3	2.5	2.5	3.2	3.3	2.9	3.2	2.9	3.0
29	6.8	4.9	5.2	3.3	-----	2.7	3.3	3.2	2.6	3.0	2.6	3.0
30	7.2	4.9	4.3	3.3	-----	2.8	3.2	3.2	2.6	2.9	2.9	3.0
31	6.5	-----	3.6	3.2	-----	2.9	-----	3.2	-----	3.1	3.1	-----
TOTAL	221.4	172.5	170.1	119.0	82.4	58.40	92.4	100.0	89.7	96.4	94.2	88.5
MEAN	7.14	5.75	5.49	3.84	2.94	1.88	3.08	3.23	2.99	3.11	3.04	2.95
MAX	8.3	6.4	7.1	5.9	3.5	3.1	3.6	3.5	3.5	5.2	3.8	3.9
MIN	6.4	4.9	3.6	2.9	2.2	.75	2.7	2.6	2.1	2.5	2.6	2.4
AC-FT	439	342	337	236	163	116	183	198	178	191	187	176
CAL YR 1973	TOTAL 2,598.29	MEAN 7.12	MAX 111	MIN .60	AC-FT 5,150							
WTR YR 1974	TOTAL 1,385.00	MEAN 3.79	MAX 8.3	MIN .75	AC-FT 2,750							

PEAK DISCHARGE (BASE, 60 CFS). No peak above base.

DIRTY DEVIL RIVER BASIN

09330230 Fremont River near Caineville, Utah

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼ sec.20, T.29 S., R.8 E., Wayne County, on right bank 2 miles (3 km) downstream from Pleasant Creek, 4.5 miles (7.2 km) southwest of Caineville, and 9.8 miles (15.8 km) east of Fruita, Utah.

DRAINAGE AREA.--1,190 mi² (3,082 km²), approximately.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,750 ft (1,448 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 67.1 ft³/s (1,900 m³/s), 51,150 acre-ft/yr (63.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) July 18 (gage height, 3.54 ft or 1.079 m); minimum daily, 23 ft³/s (0.65 m³/s) several days in May and June.

Period of record: Maximum discharge, 2,310 ft³/s (65.4 m³/s) Aug. 27, 1971 (gage height, 5.36 ft or 1.634 m, from high-water mark); minimum, 11 ft³/s (0.31 m³/s) Aug. 13-15, 1972.

REMARKS.--Records fair, except periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	74	100	60	105	95	87	37	23	33	31	32
2	40	72	108	58	111	99	92	35	23	32	41	32
3	40	75	92	56	106	92	93	33	23	31	60	32
4	40	75	102	58	105	93	89	32	23	31	41	32
5	42	75	97	80	103	95	89	31	24	31	33	39
6	43	75	98	85	100	96	88	30	25	31	32	50
7	42	76	100	91	91	98	84	29	28	30	32	34
8	42	75	103	98	83	96	83	28	27	29	32	32
9	44	74	104	97	86	94	83	27	31	29	32	32
10	51	76	102	95	82	90	83	27	31	31	32	32
11	59	77	103	93	85	94	83	27	30	31	32	32
12	59	77	107	108	87	99	83	26	28	31	32	32
13	57	92	106	125	90	96	81	26	27	31	32	32
14	55	95	110	112	86	96	72	26	26	31	32	32
15	57	94	103	108	90	96	67	26	25	31	32	35
16	58	96	102	111	85	96	63	26	27	31	32	60
17	57	99	104	105	89	96	61	26	26	107	32	44
18	58	103	109	104	82	98	59	25	28	553	32	38
19	59	103	104	106	86	98	58	24	29	456	32	33
20	61	95	90	96	90	98	56	24	28	363	32	33
21	61	103	90	96	86	97	55	24	28	235	32	33
22	61	98	93	92	94	98	54	24	29	160	32	33
23	59	97	99	94	86	97	52	23	34	105	32	33
24	58	104	100	92	94	96	50	23	42	72	32	33
25	60	106	97	93	91	94	48	23	41	63	32	33
26	62	100	77	95	84	93	47	23	38	42	32	33
27	65	87	98	94	94	92	43	24	37	36	32	33
28	67	100	112	97	90	91	42	24	36	34	32	33
29	66	96	114	92	-----	92	40	24	34	32	32	33
30	59	99	120	100	-----	91	39	24	33	31	32	33
31	71	-----	62	102	-----	90	-----	24	-----	31	32	-----
TOTAL	1,693	2,668	3,106	2,893	2,561	2,946	2,024	825	884	2,814	1,038	1,048
MEAN	54.6	88.9	100	93.3	91.5	95.0	67.5	26.6	29.5	90.8	33.5	34.9
MAX	71	106	120	125	111	99	93	37	42	553	60	60
MIN	40	72	62	56	82	90	39	23	23	29	31	32
AC-FT	3,360	5,290	6,160	5,740	5,080	5,840	4,010	1,640	1,750	5,580	2,060	2,080

CAL YR 1973 TOTAL 32,837 MEAN 90.0 MAX 860 MIN 25 AC-FT 65,130
WTR YR 1974 TOTAL 24,500 MEAN 67.1 MAX 553 MIN 23 AC-FT 48,600

PEAK DISCHARGE (BASE, 500 CFS).--July 18 (0200) 1,090 cfs (3.54 ft).

NOTE: No gage-height record Feb 8 to Mar. 20, July 21 to Sept. 30.

09330500 Muddy Creek near Emery, Utah

LOCATION.--Lat 38°59'00", long 111°14'49", in NE¼ sec.16, T.21 S., R.6 E., Emery County, on left bank 100 ft (30 m) upstream from Emery Canal and 5 miles (8 km) north of Emery.

DRAINAGE AREA.--105 mi² (270 km²), approximately.

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mile (2 km) upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft (30 m) upstream at datum 2.89 ft (0.881 m) higher prior to Mar. 20, 1953, and at datum 1.89 ft (0.6 m) higher thereafter.

AVERAGE DISCHARGE.--28 years (1910-13, 1949-74), 37.8 ft³/s (1.070 m³/s), 27,390 acre-ft/yr (33.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 268 ft³/s (7.59 m³/s) May 9 (gage height, 3.43 ft or 1.045 m); minimum recorded, 2.7 ft³/s (0.076 m³/s) Oct. 31.

Period of record: Maximum discharge, 3,340 ft³/s (94.6 m³/s) May 10, 1952 (gage height, 11.14 ft or 3.395 m, present datum), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

REMARKS.--Records good, except those for winter period and period of no gage-height, which are fair. One small diversion for irrigation above station.

REVISION.--WSP 1633: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	10	9.0	9.0	10	13	79	167	78	45	36
2	21	17	10	9.0	9.0	10	14	95	163	75	54	35
3	21	16	10	9.0	9.0	10	11	105	157	73	49	34
4	21	14	10	9.0	9.0	10	12	108	150	72	45	33
5	21	15	10	9.0	9.0	12	13	118	146	75	41	32
6	20	18	10	9.0	9.0	13	14	121	147	68	38	30
7	20	16	10	9.0	9.0	12	14	139	146	65	42	23
8	20	13	10	9.0	9.0	11	14	163	146	62	42	22
9	20	11	10	9.0	9.0	11	16	194	140	61	43	21
10	20	11	10	9.0	9.0	12	14	209	135	59	41	21
11	20	11	10	9.0	9.0	11	14	195	131	57	40	21
12	20	11	10	9.0	9.0	12	14	189	130	55	39	22
13	20	12	10	9.0	9.0	13	14	177	128	53	38	26
14	19	9.9	10	9.0	9.0	13	15	155	130	52	38	30
15	19	7.8	10	9.0	9.0	14	18	163	131	53	39	28
16	19	13	10	9.0	10	17	23	175	128	54	39	27
17	19	14	10	9.0	10	19	30	172	127	63	39	25
18	19	12	10	9.0	10	17	31	164	125	65	38	24
19	15	11	10	9.0	10	14	27	147	122	51	38	23
20	15	14	10	9.0	10	13	22	137	116	53	37	22
21	15	11	10	9.0	10	11	26	127	113	52	37	22
22	16	10	10	9.0	10	12	37	118	110	49	36	20
23	17	10	10	9.0	10	11	50	115	107	45	36	20
24	16	10	10	9.0	10	11	56	113	101	42	35	20
25	17	10	10	9.0	10	12	66	118	97	40	35	19
26	17	10	10	9.0	10	14	61	134	94	40	35	19
27	16	10	10	9.0	10	12	46	147	91	43	34	18
28	16	10	10	9.0	10	13	44	159	86	39	34	18
29	16	10	10	9.0	-----	12	47	165	83	36	33	18
30	14	10	10	9.0	-----	16	58	163	81	36	36	17
31	17	-----	10	9.0	-----	15	-----	165	-----	35	37	-----
TOTAL	567	364.7	310	279.0	265.0	393	834	4,529	3,728	1,701	1,213	726
MEAN	18.3	12.2	10.0	9.00	9.46	12.7	27.8	146	124	54.9	39.1	24.2
MAX	21	18	10	9.0	10	19	66	209	167	78	54	36
MIN	14	7.8	10	9.0	9.0	10	11	79	81	35	33	17
AC=FT	1,120	723	615	553	526	780	1,650	8,980	7,390	3,370	2,410	1,440

CAL YR 1973 TOTAL 16,833.3 MEAN 46.1 MAX 202 MIN 7.8 AC=FT 33,390
WTR YR 1974 TOTAL 14,909.7 MEAN 40.8 MAX 209 MIN 7.8 AC=FT 29,570

PEAK DISCHARGE (BASE, 400 CFS). No peak above base

NOTE.--No gage-height record Jan. 2 to Mar. 2.

DIRTY DEVIL RIVER BASIN

09332100 Muddy Creek below Interstate Highway I-70, near Emery, Utah

LOCATION.--Lat 38°48'44", long 111°11'53", SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.23 S., R.6 E., Emery County on left bank 0.25 mile (0.40 km) downstream from bridge on Interstate Highway I-70, 0.50 mile (0.80 km) downstream from Ivie Creek, and 8 miles (13 km) southeast of Emery.

DRAINAGE AREA.--418 mi² (1,083 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft (1,716 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 5,360 ft³/s (151.8 m³/s) July 17 (gage height, 7.80 ft or 2.377 m, from floodmark); from rating curve extended above 170 ft³/s (4.81 m³/s); minimum recorded discharge, 1.7 ft³/s (0.048 m³/s) Sept. 1.

REMARKS.--Records poor.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	6.5	11	11	11	20	17	29	41	4.1	4.2	2.3
2	5.9	7.0	11	11	11	20	13	20	36	4.9	3.9	2.2
3	4.1	8.6	11	11	12	20	9.5	28	35	5.7	3.7	2.4
4	3.8	6.0	11	11	12	20	11	25	30	5.6	3.5	3.5
5	4.7	5.6	11	11	12	20	11	17	20	6.3	3.3	3.6
6	5.0	6.4	11	11	12	20	10	27	19	8.8	3.2	3.2
7	4.4	7.1	11	11	12	20	11	20	20	8.2	3.0	2.5
8	4.0	6.5	11	11	12	20	13	83	24	8.0	2.9	3.1
9	4.3	6.0	11	11	12	20	14	154	23	7.5	2.8	2.5
10	6.4	5.5	11	11	12	20	14	175	16	7.0	2.7	3.3
11	9.0	6.4	11	11	12	20	12	115	16	6.8	2.6	2.8
12	6.3	6.9	11	11	12	20	14	93	16	6.5	2.6	2.5
13	5.8	7.0	11	11	12	20	12	90	15	6.4	2.5	3.0
14	5.7	8.6	11	11	12	20	14	51	15	6.5	2.5	3.1
15	5.3	5.8	11	11	12	20	14	43	16	7.0	2.5	4.3
16	5.1	7.8	11	10	15	20	16	53	15	10	2.5	5.1
17	4.9	9.1	11	10	15	25	15	53	16	100	2.5	4.2
18	6.7	8.7	11	10	15	24	16	32	16	80	2.5	3.5
19	4.9	8.7	11	10	15	19	17	21	14	50	2.5	3.3
20	4.4	5.8	11	10	15	17	18	15	17	35	2.5	2.9
21	4.4	7.2	11	10	15	16	15	15	15	27	2.6	3.6
22	4.5	9.5	11	10	15	16	16	17	9.2	20	2.8	2.8
23	5.1	9.1	11	10	15	17	19	16	9.0	17	3.0	3.0
24	6.4	11	11	10	15	16	16	13	9.5	15	3.3	3.7
25	5.5	11	11	10	15	17	16	10	9.1	12	3.7	2.5
26	5.3	11	11	10	15	20	21	12	8.7	10	4.0	2.4
27	5.7	11	11	10	15	18	19	13	4.6	8.5	3.8	3.1
28	5.8	11	11	10	15	18	18	25	4.2	7.5	2.6	2.4
29	6.0	11	11	10	-----	15	17	33	3.7	6.5	2.8	2.6
30	5.3	11	11	10	-----	17	17	35	3.1	5.5	3.4	3.6
31	6.1	-----	11	10	-----	17	-----	42	-----	4.5	2.2	-----
TOTAL	165.6	242.8	341	325	373	592	445.5	1,377	496.1	507.8	92.6	93.0
MEAN	5.34	8.09	11.0	10.5	13.3	19.1	14.9	44.4	16.5	16.4	2.99	3.10
MAX	9.0	11	11	11	15	25	21	175	41	100	4.2	5.1
MIN	3.8	5.5	11	10	11	15	9.5	10	3.1	4.1	2.2	2.2
AC-FT	328	482	676	645	740	1,170	884	2,730	984	1,010	184	184

WTR YR 1974 TOTAL 5,051.4 MEAN 13.8 MAX 176 MIN 2.2 AC-FT 10,020

NOTE.--No gage-height record Jan. 2 to Feb. 5, July 9 to Aug. 26.

DIRTY DEVIL RIVER BASIN

99

09333500 Dirty Devil River above Poison Spring Wash near Hanksville, Utah

LOCATION.--Lat 38°05'50", long 110°24'27" (unsurveyed), Garfield County, on right bank 1.0 mile (1.6 km) upstream from Poison Spring Wash and 25.5 miles (41.0 km) southeast of Hanksville.

DRAINAGE AREA.--4,170 mi² (10,800 km²), approximately.

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

GAGE.--Water-stage recorder and mercury manometer. Altitude of gage is 3,850 ft (1,173 m) from topographic map. Prior to July 15, 1964, at site 28 miles (45 km) downstream at different datum.

AVERAGE DISCHARGE.--26 years, 96.5 ft³/s (2.733 m³/s), 69,910 acre-ft/yr (86.2 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 281 ft³/s (7.96 m³/s) March 3; minimum, no flow for many days.

Period of record: Maximum discharge, about 35,000 ft³/s (991 m³/s) Nov. 4, 1957 (gage height, 28.1 ft or 8.56 m, from floodmarks, site and datum then in use), from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement at gage height 20.65 ft (6.294 m); no flow at times in 1954-55, 1959-60, 1963-68, 1971-72, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	68	152	110	139	220	150	69	20	0	0	10
2	30	88	162	98	139	264	150	68	18	0	0	2.0
3	30	89	169	88	139	281	150	67	16	0	0	0
4	30	86	144	86	140	249	150	65	14	0	0	0
5	30	108	127	87	137	196	140	65	12	0	0	0
6	30	113	123	110	144	155	130	64	11	0	0	0
7	30	113	126	133	149	141	120	63	10	0	0	0
8	30	118	135	171	150	145	110	62	9.0	0	0	30
9	50	109	135	244	144	168	110	61	8.0	0	0	20
10	170	84	143	256	143	158	110	60	7.0	0	14	10
11	100	89	154	192	136	158	134	111	6.0	0	5.0	5.0
12	70	77	157	192	135	163	139	133	5.2	0	1.5	5.0
13	60	79	150	182	133	158	127	95	4.5	0	.50	5.0
14	55	82	150	160	148	152	115	82	4.0	0	.10	5.0
15	50	97	150	162	153	169	108	80	3.5	0	.01	5.0
16	50	113	142	168	164	152	104	75	3.0	49	0	5.0
17	50	125	140	151	169	147	100	70	2.5	60	0	100
18	50	126	140	130	171	157	100	65	2.0	187	0	30
19	50	153	140	112	172	136	101	60	1.5	148	0	25
20	50	151	140	110	165	123	134	56	1.0	12	0	20
21	50	140	140	110	162	123	124	52	.70	5.0	0	10
22	54	147	140	110	170	124	99	48	.50	27	0	10
23	57	156	140	112	173	140	95	44	.30	10	0	15
24	57	144	140	110	177	155	90	41	.20	5.0	0	12
25	52	160	140	110	159	136	85	38	.10	2.0	0	11
26	51	162	141	110	165	133	80	35	0	.50	0	10
27	56	149	128	110	176	137	76	32	0	.10	0	10
28	65	142	127	110	207	132	74	29	0	0	20	10
29	67	124	120	110	-----	140	72	26	0	0	20	10
30	71	143	120	131	-----	140	70	24	0	0	5.0	10
31	74	-----	120	152	-----	145	-----	22	-----	0	1.0	-----
TOTAL	1,699	3,535	4,335	4,217	4,359	4,997	3,347	1,863	160.00	505.60	67.11	385.0
MEAN	54.8	118	140	136	156	161	112	60.1	5.33	16.3	2.16	12.8
MAX	170	162	169	256	207	281	150	133	20	187	20	100
MIN	30	68	120	86	133	123	70	22	0	0	0	0
AC-FT	3,370	7,010	8,600	8,360	8,650	9,910	6,640	3,700	317	1,000	133	764
CAL YR 1973	TOTAL	42,075.00	MEAN	115	MAX	700	MIN	28	AC-FT	83,460		
WTR YR 1974	TOTAL	29,469.71	MEAN	80.7	MAX	281	MIN	0	AC-FT	58,450		

PEAK DISCHARGE (BASE, 2,700 CFS). No peak above base

NOTE.--No gage-height record May 17 to July 15.

ESCALANTE RIVER BASIN

09337000 Pine Creek near Escalante, Utah

LOCATION.—Lat 37°51'45", long 111°38'07", in SW¼ sec.12, T.34 S., R.2 E., Garfield County, on left bank 0.2 mile (0.3 km) upstream from unnamed right bank tributary and 7 miles (11 km) north of Escalante.

DRAINAGE AREA.—78 mi² (202 km²), approximately.

PERIOD OF RECORD.—July 1950 to September 1955, July 1957 to current year.

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

AVERAGE DISCHARGE.—22 years, 4.37 ft³/s (0.124 m³/s), 3,170 acre-ft/yr (3.91 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 51 ft³/s (1.44 m³/s) July 22 (gage height, 2.92 ft or 0.890 m); minimum discharge, 1.1 ft³/s (0.031 m³/s) Sept. 14, 24, 25.

Period of record: Maximum discharge, 1,010 ft³/s (28.6 m³/s) Aug. 2, 1967 (gage height, 7.72 ft or 2.353 m), from rating curve extended above 35 ft³/s (0.99 m³/s) on basis of slope-area measurement at gage height 7.70 ft (2.347 m); no flow at times in most years.

REMARKS.—Records good except those for winter period and periods of no gage-height record, which are poor. No diversion above station. Some regulation from small reservoirs at headwaters.

REVISION.—WSP 1633: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	2.4	6.1	5.8	5.7	5.6	4.9	3.9	4.6	4.4	6.2	1.5
2	5.2	2.6	6.1	5.4	5.7	5.6	6.0	4.5	4.8	4.2	7.8	1.5
3	5.3	3.2	6.2	5.0	5.6	6.0	4.9	5.4	4.8	4.3	6.8	1.3
4	5.2	4.0	6.8	5.4	5.5	6.0	5.0	7.1	4.6	4.3	6.0	1.3
5	5.2	4.0	6.9	5.6	5.5	6.0	4.8	6.0	4.4	4.2	5.5	1.4
6	5.1	4.0	6.3	5.3	5.9	5.7	5.0	5.6	4.4	4.1	5.3	1.6
7	5.0	4.0	5.5	5.1	6.7	5.4	4.7	5.2	4.4	4.0	5.4	1.5
8	4.9	4.0	5.0	5.0	6.6	5.4	4.5	6.3	5.1	4.1	5.2	1.5
9	4.0	4.0	5.0	6.8	6.6	5.4	4.8	6.8	5.3	3.8	5.2	1.5
10	2.9	4.0	5.2	6.7	6.5	5.4	4.6	5.2	4.8	3.6	5.2	1.4
11	2.4	3.6	5.4	6.7	6.4	5.4	4.7	3.5	4.6	3.5	4.8	1.4
12	2.6	3.5	5.6	6.6	6.4	5.4	4.5	2.9	4.3	3.5	4.8	1.4
13	3.0	3.5	5.8	6.7	6.4	5.4	4.2	2.6	4.3	3.4	4.3	1.2
14	3.2	3.7	6.7	6.6	5.2	5.4	4.3	2.4	4.1	3.4	4.0	1.3
15	3.4	4.0	6.7	6.6	5.2	5.4	4.4	2.2	3.7	5.4	3.9	2.1
16	3.8	4.5	6.7	6.6	5.8	5.4	4.6	4.4	3.6	4.6	3.7	1.4
17	3.9	5.0	6.6	6.4	5.6	5.4	4.6	6.8	3.4	4.4	3.4	1.5
18	3.8	6.7	6.6	6.4	5.1	5.4	4.8	6.9	4.4	4.0	3.3	1.7
19	3.5	6.7	6.6	6.4	6.6	5.4	5.0	6.9	4.8	5.7	4.0	1.4
20	3.2	6.7	6.5	6.4	5.4	5.5	4.5	7.5	4.7	5.1	3.7	1.4
21	2.9	6.7	5.4	6.3	5.0	4.9	4.2	7.6	4.7	4.9	3.5	1.4
22	2.9	6.6	5.0	6.2	6.4	5.4	4.3	7.3	4.6	5.6	3.0	1.3
23	2.9	6.6	5.5	6.2	6.4	5.5	4.4	7.1	4.5	5.6	2.6	1.3
24	2.9	6.4	6.0	6.1	6.4	5.3	4.8	7.0	4.4	5.1	2.4	1.2
25	2.9	6.4	6.4	6.1	5.2	5.5	4.8	6.7	4.4	5.2	2.1	1.2
26	2.5	6.4	6.8	6.0	5.2	5.7	4.9	5.7	4.4	5.8	1.9	1.4
27	2.2	6.2	6.8	5.9	5.2	5.5	4.3	5.1	4.3	5.8	1.8	1.3
28	1.9	6.2	6.8	5.9	5.6	5.2	4.2	4.8	4.3	5.9	1.7	1.4
29	2.0	6.1	7.0	5.9	-----	5.1	4.0	4.8	4.3	4.9	1.6	1.3
30	2.3	6.1	6.7	5.9	-----	5.5	3.8	4.5	4.3	4.8	1.6	1.2
31	2.4	-----	6.2	5.7	-----	5.7	-----	4.5	-----	5.4	1.5	-----
TOTAL	109.5	147.8	190.9	187.7	163.8	169.9	138.5	167.2	133.3	143.0	122.2	42.3
MEAN	3.53	4.93	6.16	6.05	5.85	5.48	4.62	5.39	4.44	4.61	3.94	1.41
MAX	6.1	6.7	7.0	6.8	6.7	6.0	6.0	7.6	5.3	5.9	7.8	2.1
MIN	1.9	2.4	5.0	5.0	5.0	4.9	3.8	2.2	3.4	3.4	1.5	1.2
AC-FT	217	293	379	372	325	337	275	332	264	284	242	84

CAL YR 1973 TOTAL 3,530.8 MEAN 9.67 MAX 110 MIN 1.8 AC-FT 7,000
WTR YR 1974 TOTAL 1,716.1 MEAN 4.70 MAX 7.8 MIN 1.2 AC-FT 3,400

PEAK DISCHARGE (BASE, 100 CFS).—No peak above base

NOTE:—No gage-height record Oct. 6 to Nov. 15 and Feb. 14 to Mar. 19.

101

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¼NW¼SE¼, sec.9, T.35 S., R.3 E., Garfield County, on left bank 150 ft (46 m) downstream from Pine Creek and 2 miles (3 km) northeast of Escalante.

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

AVERAGE DISCHARGE.--18 years (1909-12, 1942-55, 1972-74) 17.8 ft³/s (0.50 m³/s), 12,900 acre-ft/yr (15.9 hm³/yr).

EXTREMES.—Maximum discharge, 170 ft³/s (4.81 m³/s) July 22 (gage height, 3.28 ft or 1.00 m); minimum, 0.52 ft³/s (0.015 m³/s) July 29, 30. Period of record: Maximum discharge, 3,450 ft³/s (97.7 m³/s) August 1953, day unknown (gage height, 9.9 ft or 3.018 m, from outside high-water mark), from rating curve extended above 540 ft³/s (15.3 m³/s) on basis of slope-area measurements at gage heights 5.50 ft (1.676 m) and 7.34 ft (2.237 m) from inside gage and 7.59 ft (2.313 m) from outside high-water mark, and logarithmic plotting; minimum, 0.1 ft³/s (0.003 m³/s) Aug. 20, 1946, July 15, 1950.

REVISIONS (WATER YEARS).--WSP 1149: 1943(M), 1944, 1945(M) WRD Utah 1973.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	4.8	11	8.2	15	16	3.5	1.6	1.3	2.4	5.4	1.2
2	8.6	5.1	13	8.1	15	19	4.1	1.8	1.3	2.6	15	1.2
3	8.6	5.8	12	8.0	16	19	3.0	1.6	1.3	3.7	8.4	1.2
4	8.2	6.1	12	8.8	15	16	3.0	3.2	1.1	3.7	2.7	1.1
5	8.2	6.5	11	11	15	20	3.2	3.5	1.4	3.7	2.0	.89
6	8.2	6.1	10	14	15	23	3.5	3.5	1.6	4.8	1.6	2.2
7	8.2	7.3	9.6	14	15	20	3.2	3.8	2.2	5.0	2.1	3.0
8	8.4	6.5	9.6	14	15	18	2.7	3.2	3.2	4.2	2.2	2.3
9	7.1	6.9	9.8	14	15	18	3.5	2.1	2.4	4.0	2.2	1.9
10	6.0	6.1	10	14	15	18	2.7	2.1	2.6	3.9	2.0	1.8
11	5.4	5.1	11	14	15	16	1.6	2.7	1.8	2.8	1.5	1.7
12	5.6	5.4	12	15	15	16	3.0	3.2	2.0	3.1	1.5	1.0
13	6.0	5.1	13	15	15	15	2.1	3.0	2.6	2.7	1.3	.84
14	6.3	5.8	10	15	15	10	2.7	2.1	2.2	2.9	1.1	1.4
15	6.5	5.8	10	15	15	9.1	1.8	2.1	1.7	11	1.1	2.4
16	6.7	6.1	10	15	16	9.6	1.4	2.1	1.6	18	1.0	1.7
17	6.8	7.7	10	15	15	10	1.3	1.3	1.5	9.8	.96	1.7
18	6.8	9.1	11	18	19	14	1.4	1.1	1.3	9.6	.82	4.6
19	6.6	8.6	10	16	16	14	1.4	1.4	1.7	14	.94	2.4
20	6.1	7.7	9.4	15	15	12	2.1	1.8	1.6	13	.94	1.7
21	5.8	7.7	8.8	15	17	6.5	2.1	3.0	1.9	13	1.1	1.8
22	5.8	6.9	9.1	15	18	6.1	1.4	1.4	1.6	22	1.1	1.5
23	5.8	6.8	11	15	17	6.1	1.1	2.1	1.9	12	.98	1.6
24	5.8	6.6	16	15	15	6.5	1.1	2.1	1.7	3.6	1.0	1.6
25	5.1	7.2	16	15	16	5.8	1.1	1.3	1.8	1.2	1.1	4.3
26	4.8	8.6	10	15	16	5.1	.89	1.8	1.8	.75	1.0	2.8
27	4.6	8.2	8.0	15	16	5.1	.89	1.1	1.8	.88	1.2	2.4
28	4.7	8.7	9.6	15	17	5.1	1.3	.89	2.0	.94	1.2	1.7
29	4.8	9.5	9.6	15	-----	5.1	1.4	.89	1.7	1.5	1.2	1.9
30	4.8	10	7.7	14	-----	5.1	1.3	.89	1.7	.63	1.1	1.8
31	4.8	-----	8.0	14	-----	3.5	-----	.89	-----	.73	1.4	-----
TOTAL	199.5	207.8	328.2	430.1	439	372.7	63.78	63.56	54.3	182.13	67.14	57.63
MEAN	6.44	6.93	10.6	13.9	15.7	12.0	2.13	2.05	1.81	5.88	2.17	1.92
MAX	8.6	10	16	18	19	23	4.1	3.8	3.2	22	15	4.6
MIN	4.6	4.8	7.7	8.0	15	3.5	.89	.89	1.1	.63	.82	.84
AC-FT	396	412	651	853	871	739	127	126	108	361	133	114
CAL YR 1973	TOTAL	10,619.00	MEAN	29.1	MAX	231	MIN	2.8	AC-FT	21,060		
WTR YR 1974	TOTAL	2,465.84	MEAN	6.76	MAX	23	MIN	.63	AC-FT	4,890		

SAN JUAN RIVER BASIN

09368000 San Juan River at Shiprock, N. Mex.

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, on left bank 3 miles (5 km) west of Shiprock, 6 miles (10 km) downstream from Chaco River, and at mile 215.0 (345.9 km).

DRAINAGE AREA.--12,900 mi² (33,400 km²), approximately.

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft (1,477.878 m) above mean sea level from river-profile survey. Prior to Apr. 16, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 miles (5 km) upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft (1.01 m) higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft (0.54 m) higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

AVERAGE DISCHARGE.--48 years (1926-74), 2,212 ft³/s (62.64 m³/s), 1,603,000 acre-ft/yr (1.98 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 6,460 ft³/s (183 m³/s) July 18 (gage height, 5.53 ft or 1.686 m); minimum, 92 ft³/s (2.61 m³/s) July 13.

1927-74: Maximum discharge, about 80,000 ft³/s (2,270 m³/s) Aug. 11, 1929 (gage height, 5.7 ft or 1.74 m, site and datum then in use); minimum daily, 8 ft³/s (0.23 m³/s) Aug. 25, 26, 1939.

Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft (6.7 m), site and datum then in use.

REMARKS.--Records good. Since 1962 flow partly regulated by Navajo Reservoir (see sta 09355100). Diversions for irrigation of about 118,000 acres (478 km²) above station. Ungaged canals bypass station on both right and left bank, though some of bypass flow is returned to river below gage. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,080	2,020	2,260	2,350	1,820	1,390	1,370	1,060	2,590	350	376	304
2	2,010	2,030	2,230	2,270	1,860	1,510	1,330	1,080	1,880	325	343	301
3	2,060	2,040	2,200	2,150	1,850	1,480	1,280	994	1,510	277	453	280
4	2,140	2,150	1,550	2,100	1,820	1,460	1,300	1,120	1,220	214	662	250
5	2,230	2,170	1,330	2,250	1,900	1,410	1,200	1,350	1,150	201	979	233
6	2,140	2,150	2,010	2,410	1,900	1,280	1,130	1,570	1,300	198	669	243
7	2,070	2,170	2,000	2,430	1,750	1,330	1,090	1,520	1,160	185	516	346
8	1,940	2,170	2,070	2,370	1,790	1,370	1,080	1,670	1,100	179	380	339
9	1,850	2,190	2,050	2,370	1,800	1,390	930	1,820	970	194	335	343
10	1,910	2,190	2,070	2,430	1,840	1,500	860	2,570	867	179	399	267
11	2,020	2,190	2,080	2,390	1,920	1,480	788	3,180	752	182	380	236
12	2,000	2,180	2,050	2,090	1,820	1,440	980	3,380	788	157	395	236
13	2,020	2,150	2,050	2,000	1,390	1,410	1,130	3,400	1,020	112	376	263
14	2,020	2,170	2,130	1,970	1,320	1,430	1,130	3,150	1,290	118	339	260
15	2,010	2,190	2,120	1,840	1,330	1,500	1,090	2,230	1,290	390	304	335
16	2,070	2,100	2,080	1,760	1,350	1,560	1,050	2,120	1,570	706	287	350
17	2,060	2,110	2,060	1,760	1,290	1,590	1,030	2,630	1,380	1,720	273	419
18	2,100	2,100	2,070	1,800	1,240	1,530	916	3,520	1,240	3,320	260	489
19	2,050	2,150	2,080	1,820	1,230	1,510	923	2,550	978	3,160	287	516
20	2,100	2,150	2,060	1,820	1,260	1,410	938	3,050	867	1,980	256	476
21	2,010	2,110	2,050	1,850	1,240	1,380	994	2,120	776	1,570	223	484
22	2,000	2,150	2,070	1,840	1,240	1,370	930	1,440	728	1,290	214	535
23	2,000	2,170	2,090	1,800	1,210	1,370	867	1,300	734	1,370	217	507
24	1,470	2,160	2,090	1,900	1,210	1,440	830	1,360	728	860	243	580
25	1,150	2,180	2,080	1,800	1,240	1,470	812	1,430	669	758	277	565
26	1,920	2,220	2,050	1,790	1,270	1,440	848	1,260	615	686	290	585
27	2,000	2,230	2,050	1,910	1,370	1,430	1,080	1,670	580	620	357	555
28	1,960	2,140	2,060	1,880	1,380	1,390	1,370	2,690	530	600	284	560
29	1,980	2,180	2,120	1,840	-----	1,350	1,280	2,690	480	525	284	625
30	1,980	2,250	2,230	1,880	-----	1,350	1,150	2,630	400	444	294	636
31	1,740	-----	2,140	1,800	-----	1,310	-----	2,730	-----	435	290	-----
TOTAL	61,090	64,610	63,580	62,570	42,650	44,280	31,706	65,284	31,162	23,305	11,242	12,118
MEAN	1,971	2,154	2,051	2,018	1,523	1,428	1,057	2,106	1,039	752	363	404
MAX	2,230	2,250	2,260	2,430	1,920	1,590	1,370	3,520	2,590	3,320	979	636
MIN	1,150	2,020	1,330	1,760	1,210	1,280	788	994	400	112	214	233
AC-FT	121,200	128,200	126,100	124,100	84,600	87,830	62,890	129,500	61,810	46,230	22,300	24,040

CAL YR 1973 TOTAL 1,266,000 MEAN 3,468 MAX 11,900 MIN 1,150 AC-FT 2,511,000
WTR YR 1974 TOTAL 513,597 MEAN 1,407 MAX 3,520 MIN 112 AC-FT 1,019,000

PEAK DISCHARGE (BASE, 6,000 CFS).--July 18 (1045) 6,460 cfs (5.53 ft).

SAN JUAN RIVER BASIN

103

09378630 Recapture Creek near Blanding, Utah

LOCATION.—Lat 37°45'20", long 109°28'33", in NW¼NE¼NW¼ sec.11, T.35 S., R.22 E., San Juan County, on right bank 100 ft (30 m) below road ford, 2 miles (3 km) north of Manti-LaSal National Forest Boundary, and 9 miles (14 km) north of Blanding.

DRAINAGE AREA.—3.77 mi² (9.76 km²).

PERIOD OF RECORD.—October 1965 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,200 ft (2,195 m) from topographic map.

AVERAGE DISCHARGE.—9 years, 1.08 ft³/s (0.031 m³/s), 782 acre-ft/yr (0.964 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 3.8 ft³/s (0.11 m³/s) about May 10 (gage height, 0.93 ft or 0.283 m); no flow several days during year.

Period of record: Maximum discharge, 142 ft³/s (4.02 m³/s) Oct. 20, 1972 (gage height, 2.14 ft or 0.653 m); no flow many days each year.

REMARKS.—Records poor. No diversion above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.02	.02	.02	.02	.05	.30	.95	.13	.02	.01	
2	.02	.02	.02	.02	.02	.05	.30	1.1	.13	.01	.01	
3	.02	.02	.02	.02	.02	.05	.30	1.2	.13	.01	.01	
4	.02	.02	.02	.02	.02	.05	.30	1.4	.13	.01	.01	
5	.02	.02	.02	.02	.02	.05	.30	1.6	.15	.01	.01	
6	.02	.02	.02	.02	.02	.05	.50	1.8	.14	.01	.01	
7	.02	.02	.02	.02	.03	.07	.50	2.0	.14	.01	.01	
8	.02	.02	.02	.02	.03	.07	.50	2.3	.16	.01	.01	
9	.05	.02	.02	.02	.03	.07	.50	2.7	.21	.01	.01	
10	.02	.02	.02	.02	.03	.07	.50	3.0	.21	.01	.01	
11	.02	.02	.02	.02	.03	.07	.60	2.2	.16	.01	.01	
12	.02	.02	.02	.02	.03	.10	.60	1.5	.16	.01	.01	
13	.02	.02	.02	.02	.03	.10	.60	1.1	.19	.01	0	
14	.02	.02	.02	.02	.03	.10	.60	.85	.18	.01	0	
15	.02	.02	.02	.02	.03	.10	.60	.65	.16	.01	0	
16	.02	.02	.02	.02	.03	.10	.70	.50	.15	.02	0	
17	.02	.02	.02	.02	.03	.10	.70	.40	.13	.02	0	
18	.02	.02	.02	.02	.03	.10	.70	.35	.10	.01	0	
19	.02	.02	.02	.02	.03	.10	.70	.30	.07	.01	0	
20	.02	.02	.02	.02	.03	.10	.70	.25	.03	.01	0	
21	.02	.02	.02	.02	.03	.20	.80	.22	.03	.02	0	
22	.02	.02	.02	.02	.03	.20	.80	.20	.03	.01	0	
23	.02	.02	.02	.02	.03	.20	.80	.18	.03	.02	0	
24	.02	.02	.02	.02	.03	.20	.80	.15	.02	.01	0	
25	.02	.02	.02	.02	.03	.20	.80	.15	.02	.01	0	
26	.02	.02	.02	.02	.03	.30	.90	.16	.02	.01	0	
27	.02	.02	.02	.02	.03	.30	.90	.15	.02	.01	0	
28	.02	.02	.02	.02	.03	.30	.90	.15	.02	.01	0	
29	.02	.02	.02	.02	-----	.30	.90	.12	.02	.01	0	
30	.02	.02	.02	.02	-----	.30	.90	.12	.02	.01	0	
31	.02	-----	.02	.02	-----	.30	-----	.12	-----	.01	0	-----
TOTAL	.65	.60	.62	.62	.78	4.35	19.00	27.89	3.09	.36	.12	0
MEAN	.021	.020	.020	.020	.028	.14	.63	.90	.10	.012	.004	0
MAX	.05	.02	.02	.02	.03	.30	.90	3.0	.21	.02	.01	0
MIN	.02	.02	.02	.02	.02	.05	.30	.12	.02	.01	0	0
AC-FT	1.3	1.2	1.2	1.2	1.5	8.6	38	55	6.1	.7	.2	0

CAL YR 1973 TOTAL 1,436.03 MEAN 3.93 MAX 34 MIN 0 AC-FT 2,850
WTR YR 1974 TOTAL 58.08 MEAN .16 MAX 3.0 MIN 0 AC-FT 115

PEAK DISCHARGE (BASE, 8 CFS). No peak above base

NOTE.—No gage-height record Dec. 21 to May 21.

SAN JUAN RIVER BASIN

09378700 Cottonwood Wash near Blanding, Utah

LOCATION.—Lat 37°33'38", long 109°34'41", in SW¼NE¼NW¼ sec.23, T.37 S., R.21 E., San Juan County, on downstream end of center pier of highway bridge on State Highway 95, about 2 miles (3 km) downstream from Brushy Basin Canyon, and 7 miles (11 km) southwest of Blanding.

DRAINAGE AREA.—205 sq mi (531 km²).

PERIOD OF RECORD.—October 1964 to current year. Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.—Water-stage recorder. Datum of gage is 5,137.73 ft (1,565.980 m) above mean sea level. Prior to October 1964, crest-stage gage only, at site 300 ft (91 m) upstream at different datum; October 1964 to July 13, 1966, at site 50 ft (15 m) upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

AVERAGE DISCHARGE.—10 years, 8.55 ft³/s (0.242 m³/s), 6,190 acre-ft/yr (7.63 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 314 ft³/s (8.89 m³/s) Sept. 15 (gage height, 2.70 ft or 0.823 m); no flow at times.
Period of record: Maximum discharge, 20,500 ft³/s (581 m³/s) Aug. 1, 1968 (gage height, 20.68 ft or 6.303 m); no flow during some periods each year.

REMARKS.—Records poor. No regulation or diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.0	5.0	3.0	2.0	7.0	2.8	1.6	.32	0		0
2	0	2.0	5.0	2.0	2.0	7.0	5.9	1.6	.24	0		0
3	0	2.0	5.0	2.0	2.0	7.0	3.0	1.6	.16	0		0
4	0	2.0	5.0	2.0	2.0	7.0	2.7	1.5	.08	0		0
5	0	2.0	5.0	2.0	2.0	7.0	2.6	1.5	0	0		0
6	0	2.0	5.0	2.0	2.0	7.0	2.6	1.5	0	0		0
7	0	2.0	5.0	2.0	2.0	8.6	2.5	1.5	0	0		0
8	0	2.0	5.0	2.0	2.0	8.2	2.5	1.5	0	0		0
9	4.0	2.0	5.0	2.0	2.0	8.6	2.4	1.5	0	0		0
10	1.0	2.0	5.0	2.0	2.0	10	2.4	1.4	0	0		0
11	1.0	2.0	5.0	2.0	3.0	9.0	2.3	1.4	0	0		0
12	1.0	2.0	5.0	2.0	4.0	8.5	2.3	1.4	0	0		0
13	1.0	2.0	5.0	2.0	5.0	8.0	2.2	1.3	0	0		0
14	1.0	2.0	5.0	2.0	6.0	7.5	2.2	1.3	0	0		0
15	1.0	2.0	5.0	2.0	7.0	7.0	2.1	1.2	0	2.5		24
16	1.0	2.0	5.0	2.0	7.0	6.5	2.1	1.2	0	2.8		1.6
17	1.0	2.0	5.0	2.0	7.0	6.0	2.0	1.1	0	9.8		.10
18	1.0	2.0	5.0	2.0	7.0	5.5	2.0	1.0	0	.10		0
19	1.0	2.0	5.0	2.0	7.0	5.2	1.9	1.0	0	0		0
20	1.0	2.0	5.0	2.0	7.0	4.9	1.9	.93	0	0		0
21	1.0	2.0	5.0	2.0	7.0	4.7	1.8	.87	0	8.5		0
22	1.0	2.0	5.0	2.0	7.0	4.5	1.8	.82	0	.10		0
23	1.0	2.0	5.0	2.0	7.0	4.3	1.8	.79	0	16		0
24	1.0	2.0	5.0	2.0	7.0	4.1	1.7	.74	0	4.0		0
25	1.0	2.0	5.0	2.0	7.0	3.9	1.7	.70	0	.10		0
26	1.0	2.0	4.0	2.0	7.0	3.6	1.7	.65	0	0		0
27	1.0	2.0	4.0	2.0	7.0	3.4	1.7	.60	0	0		0
28	1.0	2.0	4.0	2.0	7.0	3.2	1.6	.57	0	0		0
29	1.0	2.0	4.0	2.0	-----	3.1	1.6	.53	0	0		0
30	1.0	4.0	4.0	2.0	-----	3.0	1.6	.48	0	0		0
31	1.0	-----	4.0	2.0	-----	2.9	-----	.40	-----	0		-----
TOTAL	26.0	62.0	149.0	63.0	136.0	186.2	67.4	34.18	.80	43.90	0	25.70
MEAN	.84	2.07	4.81	2.03	4.86	6.01	2.25	1.10	.027	1.42	0	.86
MAX	4.0	4.0	5.0	3.0	7.0	10	5.9	1.6	.32	16	0	24
MIN	0	2.0	4.0	2.0	2.0	2.9	1.6	.40	0	0	0	0
AC-FT	52	123	296	125	270	369	134	68	1.6	87	0	51

CAL YR 1973 TOTAL 7,315.30 MEAN 20.0 MAX 300 MIN 0 AC-FT 14,510
WTR YR 1974 TOTAL 794.18 MEAN 2.18 MAX 24 MIN 0 AC-FT 1,580

PEAK DISCHARGE (BASE, 900 CFS).—No peak above base.

NOTE:—No gage-height record Oct. 10 to Nov. 29; Dec. 31 to Mar. 6; Apr. 3 to July 14; July 24 to Sept. 14.

SAN JUAN RIVER BASIN

105

09379500 San Juan River near Bluff, Utah

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¼NE¼NW¼ sec.7, T.42 S., R.19 E., San Juan County, on left bank 1,600 ft (490 m) downstream from Gypsum Creek, 1,800 ft (550 m) upstream from highway bridge, 20 miles (32 km) southwest of Bluff, at mile 113.5 (182.6 km).

DRAINAGE AREA.--23,000 mi² (60,000 km²), approximately.

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft (1,234 m) from levels of Topographic Division, USGS. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft (520 m) downstream at different datums.

AVERAGE DISCHARGE.--60 years, 2,585 ft³/s (73.21 m³/s), 1,873,000 acre-ft/yr (2.31 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,920 ft³/s (111 m³/s) Mar. 3 (gage height, 6.91 ft or 2.106 m); minimum daily, 190 ft³/s (5.38 m³/s) July 15.

1914-17, 1927-74: Maximum discharge, 70,000 ft³/s (1,980 m³/s) Sept. 10, 1927 (gage height, 32.0 ft or 9.75 m) from rating curve extended above 31,000 ft³/s (878 m³/s) and slope-area measurement at gage height 26.62 ft (8.114 m); no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

Flood of Oct. 6, 1911, which is greatest known at Shiprock, N. Mex., probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

REMARKS.--Records good Oct. 1 to Dec. 20, Jan. 25 to Apr. 6, Apr. 26 to June 11, and fair all other periods. Diversions for irrigation of approximately 200,000 acres (80,900 hm²) above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report). Records of chemical analysis, water temperatures, and suspended-sediment loads for the water year 1974 will be published in Part 2 of this report.

REVISIONS(WATER YEARS).--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,250	1,980	2,290	2,360	1,910	1,770	1,360	1,170	2,310	489	460	300
2	2,220	2,220	2,320	2,370	1,940	2,560	1,370	1,070	2,280	430	420	280
3	2,160	2,200	2,350	2,360	1,970	2,980	1,420	1,000	1,960	380	380	270
4	2,160	2,220	2,350	2,340	1,960	2,500	1,470	1,010	1,720	365	500	270
5	2,220	2,320	2,030	2,360	1,910	1,900	1,500	991	1,440	313	700	260
6	2,250	2,240	1,490	2,360	1,920	1,690	1,420	1,110	1,280	306	877	260
7	2,190	2,260	2,230	2,330	1,900	1,540	1,250	1,330	1,290	295	954	260
8	2,090	2,280	2,130	2,380	1,830	1,620	1,130	1,390	1,360	277	745	270
9	2,180	2,280	2,240	2,480	1,750	1,660	1,100	1,360	1,270	277	550	280
10	2,130	2,290	2,260	2,500	1,870	1,690	1,120	1,490	1,240	270	400	300
11	2,180	2,270	2,290	2,490	1,800	1,650	1,090	1,810	1,160	251	370	330
12	2,320	2,260	2,300	2,420	1,810	1,540	1,110	2,260	1,030	244	400	310
13	2,260	2,270	2,270	2,220	1,840	1,510	964	2,210	914	220	400	300
14	2,240	2,240	2,300	2,090	1,620	1,560	964	2,280	1,030	200	370	300
15	2,220	2,250	2,350	2,090	1,500	1,640	955	2,380	1,120	190	350	300
16	2,210	2,260	2,380	2,000	1,490	1,660	964	1,920	1,220	192	325	310
17	2,240	2,240	2,340	1,910	1,500	1,750	955	1,900	1,310	306	300	340
18	2,230	2,210	2,330	2,010	1,520	1,760	955	2,180	1,350	690	290	390
19	2,240	2,250	2,340	2,020	1,520	1,680	955	2,570	1,170	2,000	290	450
20	2,200	2,300	2,320	2,070	1,500	1,600	964	2,200	1,090	1,840	290	560
21	2,230	2,270	2,370	2,060	1,490	1,520	939	2,370	951	1,590	290	629
22	2,110	2,250	2,390	2,100	1,470	1,490	906	2,070	825	1,530	290	584
23	2,110	2,310	2,380	2,060	1,430	1,450	906	1,600	807	1,260	270	585
24	2,120	2,260	2,370	1,970	1,400	1,430	889	1,370	751	1,170	250	613
25	1,920	2,270	2,360	1,900	1,370	1,450	873	1,350	751	995	250	570
26	1,310	2,300	2,340	1,950	1,360	1,490	952	1,460	752	751	270	626
27	2,160	2,350	2,360	1,950	1,380	1,480	942	1,410	672	678	290	617
28	2,200	2,330	2,360	2,030	1,560	1,450	995	1,460	633	632	330	682
29	2,120	2,230	2,370	1,980	-----	1,390	1,210	2,190	600	600	330	658
30	2,160	2,260	2,370	1,960	-----	1,390	1,260	2,200	538	550	320	696
31	2,200	-----	2,360	1,940	-----	1,350	-----	2,200	-----	500	320	-----
TOTAL	66,830	67,670	70,940	67,060	46,520	52,150	32,888	53,311	34,824	19,791	12,581	12,600
MEAN	2,156	2,256	2,288	2,163	1,661	1,682	1,096	1,720	1,161	638	406	420
MAX	2,320	2,350	2,390	2,500	1,970	2,980	1,500	2,570	2,310	2,000	954	696
MIN	1,310	1,980	1,490	1,900	1,360	1,350	873	991	538	190	250	260
AC-FT	132,600	134,200	140,700	133,000	92,270	103,400	65,230	105,700	69,070	39,260	24,950	24,990
CAL YR 1973	TOTAL	1,460,480	MEAN	4,001	MAX	11,700	MIN	1,310	AC-FT	2,897,000		
WTR YR 1974	TOTAL	537,165	MEAN	1,472	MAX	2,980	MIN	190	AC-FT	1,065,000		

PEAK DISCHARGE (BASE, 8,000 CFS). No peak above base.

COLORADO RIVER MAIN STEM

09379900. Lake Powell at Glen Canyon Dam, Ariz.

LOCATION.--Lat 36°56'12", long 111°29'00", in sec.24, T.41 N., R.8 E., Coconino County, at Glen Canyon Dam on Colorado River, 900 ft (270 m) upstream from bridge on U.S. Highway 89, 1.4 mi (2.3 km) downstream from Wahweap Creek, 2 mi (3 km) northwest of Page, and 12 mi (19 km) downstream from Utah-Arizona State line.

DRAINAGE AREA.--107,700 sq mi (278,900 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

EXTREMES (at 2400).--Current year: Maximum contents, 20,103,000 acre-ft (24,800 hm³) June 30 (elevation, 3,667.35 ft or 1,117.808 m); minimum, 17,242,000 acre-ft (21,300 hm³) Nov. 7 (elevation, 3,645.68 ft or 1,111.203 m).

Period of record: Maximum contents, 20,103,000 acre-ft (24,800 hm³) June 30, 1974 (elevation, 3,667.35 ft or 1,117.808 m); minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft (5,140 hm³) Mar. 18, 1965 (elevation, 3,490.76 ft or 1,063.984 m).

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft (33,300 hm³), consisting of the following: dead storage, 1,998,000 acre-ft (2,460 hm³) below elevation 3,370 ft (1,027 m)—sill of outlet gates; usable contents, 25,002,000 acre-ft (30,800 hm³) between elevations 3,370 ft (1,027 m) and 3,700 ft (1,128 m)—top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records furnished by Bureau of Reclamation.

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

3,640	16,542,000	3,660	19,099,000
3,650	17,789,000	3,670	20,474,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,284	17,264	17,393	17,648	17,430	17,600	17,937	18,128	19,468	20,095	19,424	18,511
2	17,281	17,259	17,403	17,622	17,442	17,611	17,939	18,170	19,528	20,077	19,403	18,494
3	17,279	17,267	17,427	17,591	17,450	17,621	17,944	18,195	19,574	20,073	19,385	18,462
4	17,272	17,262	17,430	17,566	17,457	17,632	17,954	18,234	19,618	20,063	19,361	18,433
5	17,272	17,252	17,432	17,540	17,474	17,643	17,959	18,276	19,671	20,040	19,341	18,407
6	17,271	17,246	17,430	17,522	17,479	17,645	17,976	18,303	19,694	20,029	19,314	18,399
7	17,272	17,242	17,432	17,502	17,488	17,656	17,981	18,351	19,743	20,018	19,282	18,389
8	17,272	17,247	17,435	17,484	17,499	17,665	17,981	18,390	19,758	19,986	19,259	18,377
9	17,272	17,256	17,443	17,467	17,512	17,676	17,983	18,420	19,790	19,963	19,241	18,359
10	17,267	17,261	17,442	17,448	17,524	17,679	17,986	18,470	19,823	19,931	19,217	18,332
11	17,252	17,268	17,442	17,438	17,530	17,688	17,981	18,516	19,854	19,909	19,205	18,328
12	17,259	17,272	17,454	17,430	17,543	17,703	17,968	18,569	19,872	19,886	19,183	18,306
13	17,266	17,277	17,458	17,434	17,549	17,717	17,992	18,659	19,882	19,856	19,159	18,285
14	17,273	17,281	17,463	17,429	17,554	17,734	17,985	18,715	19,893	19,841	19,132	18,275
15	17,272	17,276	17,468	17,429	17,562	17,751	17,987	18,770	19,901	19,820	19,104	18,267
16	17,268	17,281	17,483	17,427	17,568	17,759	17,990	18,828	19,919	19,794	19,068	18,240
17	17,264	17,293	17,485	17,427	17,583	17,777	17,992	18,875	19,925	19,751	19,036	18,227
18	17,264	17,312	17,495	17,419	17,583	17,799	17,982	18,916	19,941	19,719	19,000	18,219
19	17,261	17,311	17,500	17,432	17,581	17,813	17,977	18,964	19,958	19,699	18,964	18,210
20	17,258	17,312	17,513	17,438	17,583	17,831	17,982	19,012	19,967	19,683	18,925	18,195
21	17,268	17,324	17,523	17,427	17,590	17,850	17,986	19,063	19,986	19,674	18,898	18,177
22	17,272	17,337	17,530	17,415	17,595	17,861	17,987	19,103	20,005	19,649	18,867	18,173
23	17,266	17,344	17,543	17,413	17,590	17,885	17,981	19,140	20,029	19,634	18,828	18,146
24	17,262	17,362	17,563	17,398	17,598	17,902	17,981	19,179	20,046	19,623	18,790	18,137
25	17,262	17,367	17,583	17,397	17,600	17,909	17,987	19,224	20,060	19,589	18,759	18,106
26	17,253	17,359	17,590	17,397	17,600	17,916	18,000	19,261	20,070	19,569	18,722	18,084
27	17,256	17,356	17,595	17,408	17,597	17,913	18,001	19,286	20,074	19,554	18,684	18,065
28	17,266	17,364	17,606	17,418	17,597	17,912	18,030	19,301	20,077	19,538	18,648	18,036
29	17,267	17,376	17,612	17,418	-----	17,908	18,054	19,323	20,093	19,510	18,609	18,027
30	17,263	17,388	17,636	17,417	-----	17,930	18,089	19,363	20,103	19,480	18,577	18,010
31	17,257	-----	17,641	17,419	-----	17,935	-----	19,410	-----	19,454	18,543	-----
MAX	17,284	17,388	17,641	17,648	17,600	17,935	18,089	19,410	20,103	20,095	19,424	18,511
MIN	17,252	17,242	17,393	17,397	17,430	17,600	17,937	18,128	19,468	19,454	18,543	18,010
(†)	3,645.80	3,646.85	3,648.84	3,647.09	3,648.49	3,651.14	3,652.34	3,662.30	3,667.35	3,662.62	3,655.82	3,651.73
(‡)	-27,000	+131,000	+253,000	-222,000	+178,000	+338,000	+154,000	+1,321,000	+693,000	-649,000	-911,000	-533,000

CAL YR 1973 ‡ +4,870,000

WTR YR 1974 ‡ +726,000

† 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

107

09380000. Colorado River at Lees Ferry, Ariz.
(International Hydrological Decade River Station)

LOCATION.--Lat 36°51'53", long 111°35'15", in NE¼SE¼ sec.13, T.40 N., R.7 E., Coconino County, in Navajo Indian Reservation, on left bank at head of Marble Gorge at Lees Ferry, just upstream from Paria River, 16 mi (26 km) downstream from Glen Canyon Dam, 28 mi (45 km) downstream from Utah-Arizona State line, and 61.5 mi (99.0 km) upstream from Little Colorado River.

DRAINAGE AREA.--107,900 mi² (279,500 km²), approximately.

PERIOD OF RECORD.--January 1895 to current year. Calendar year estimates and monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 3,106.16 ft (946.758 m) above mean sea level. Prior to Jan. 19, 1923, nonrecording gages or reference points within 400 ft (120 m) of present gage, at different datums.

AVERAGE DISCHARGE.--52 years (1911-62), 17,850 ft³/s (505.5 m³/s), 12,923,000 acre-ft/yr (15,900 hm³/yr); 10 years (1964-74), 12,230 ft³/s (346.4 m³/s), 8,861,000 acre-ft/yr (10,930 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 27,700 ft³/s (784 m³/s) Jan. 2, Aug. 20 (gage height, 11.68 ft or 3.560 m); minimum daily discharge, 1,410 ft³/s (39.9 m³/s) Mar. 24.

Period of record: Maximum discharge, 220,000 ft³/s (6,230 m³/s) June 18, 1921 (gage height, 26.5 ft or 8.08 m, from floodmarks), from rating curve extended above 120,000 ft³/s (3,400 m³/s) on basis of discharge computed for station near Grand Canyon; minimum daily, 700 ft³/s (19.8 m³/s) Jan. 23, 24, 1963.

Maximum discharge since at least 1868, about 300,000 ft³/s (8,500 m³/s) July 7, 1884 (gage height, 31.5 ft or 9.60 m, present site and datum, from floodmark at mouth of Paria River), from rating curve extended above 120,000 ft³/s (3,400 m³/s) on basis of discharge computed for flood of June 18, 1921, for station near Grand Canyon.

REMARKS.--Records good. Flow completely regulated by Lake Powell 16 mi (26 km) upstream since Mar. 13, 1963. Many diversions above station for irrigation, municipal, and industrial use. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current water year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 859: 1921-23. WSP 1313: 1914-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,070	8,700	3,830	6,210	4,630	11,000	6,810	8,970	9,020	18,800	20,700	20,700
2	5,380	9,520	2,910	18,500	3,520	4,530	8,450	9,910	8,860	21,000	16,700	14,900
3	9,520	9,170	7,110	25,000	1,610	2,200	9,530	10,500	11,800	21,100	15,500	17,900
4	8,450	7,970	7,290	23,700	4,240	9,880	8,190	9,060	13,000	18,000	12,800	17,600
5	8,800	12,200	9,290	18,000	2,760	9,290	8,480	7,040	11,900	19,900	16,600	15,800
6	5,650	13,400	9,560	14,900	2,860	8,380	4,530	9,120	10,800	19,400	19,100	10,800
7	4,840	10,700	8,240	18,300	3,890	6,620	5,540	8,190	11,900	16,700	19,800	8,890
8	6,330	6,740	6,010	18,600	5,790	7,480	8,290	10,900	9,880	19,700	18,900	9,100
9	8,350	6,070	3,940	17,800	2,530	5,820	8,020	14,800	10,500	20,900	17,100	15,100
10	9,680	4,940	7,840	21,600	1,610	7,170	6,400	16,400	14,500	21,700	15,500	15,500
11	10,500	3,920	5,540	20,900	5,240	9,840	10,100	16,200	14,300	20,100	13,900	15,400
12	7,390	5,730	4,730	18,600	4,760	6,150	8,200	11,100	16,400	18,600	17,500	11,800
13	4,530	5,620	7,010	12,100	3,560	5,680	8,110	16,200	19,000	17,400	15,700	11,400
14	2,990	7,420	7,570	15,300	4,840	4,530	6,730	17,900	19,400	17,000	18,800	7,380
15	9,170	8,700	6,590	13,200	5,050	5,590	6,620	18,400	17,300	18,600	21,400	6,620
16	11,700	6,390	3,330	12,500	5,980	6,680	6,870	16,800	15,000	22,000	23,000	14,000
17	11,900	3,330	8,700	12,500	2,870	3,990	8,210	15,800	19,300	22,900	21,900	13,100
18	10,600	2,190	7,640	13,600	6,860	3,960	10,300	13,600	19,200	23,400	21,000	12,500
19	11,700	6,390	4,710	8,490	7,840	4,920	12,600	9,170	19,000	22,000	23,200	11,400
20	9,020	7,290	4,480	4,890	8,040	4,250	8,210	11,000	18,600	17,000	24,200	15,900
21	4,630	7,260	4,870	15,400	8,010	4,580	6,850	12,300	17,500	16,900	19,000	16,500
22	6,180	3,350	4,450	15,700	9,600	4,370	9,760	16,000	18,100	18,800	20,200	11,500
23	10,100	3,850	2,350	13,700	7,540	2,010	13,300	15,500	15,400	19,300	23,100	16,400
24	10,600	3,240	1,960	15,000	3,200	1,410	10,300	14,600	18,200	22,500	22,400	14,600
25	11,200	3,330	1,640	11,100	9,450	7,070	7,490	11,900	18,000	20,700	20,900	18,000
26	10,600	11,200	3,560	6,470	8,010	8,870	8,180	8,810	19,100	22,400	22,800	18,000
27	7,040	15,400	5,320	2,590	8,110	10,100	8,010	12,200	18,900	18,200	23,700	16,800
28	3,870	7,510	3,370	7,970	8,450	12,100	7,600	17,500	17,900	17,600	23,600	15,800
29	7,640	3,350	4,480	8,940	-----	11,400	8,840	17,900	13,500	23,600	20,600	10,100
30	8,700	3,020	3,010	7,940	-----	3,990	8,810	14,300	14,400	20,700	21,600	13,100
31	9,920	-----	6,590	7,010	-----	2,000	-----	13,000	-----	21,400	20,200	-----
TOTAL	257,050	207,940	167,920	426,510	150,850	195,860	249,330	405,070	460,660	618,300	611,400	416,590
MEAN	8,292	6,931	5,417	13,760	5,388	6,318	8,311	13,070	15,360	19,950	19,720	13,890
MAX	11,900	15,400	9,560	25,000	9,600	12,100	13,300	18,400	23,600	24,200	24,200	20,700
MIN	2,990	2,190	1,640	2,590	1,610	1,410	4,530	7,040	8,860	16,700	12,800	6,620
AC-FT	509,900	412,400	333,100	846,000	299,200	388,500	494,500	803,500	913,700	1,226M	1,213M	826,300
CAL YR 1973	TOTAL 4,559,760			MEAN 12,490	MAX 30,500	MIN 1,640	AC-FT 9,044,000					
WTR YR 1974	TOTAL 4,167,480			MEAN 11,420	MAX 25,000	MIN 1,410	AC-FT 8,266,000					

PARIA RIVER BASIN

09382000. Paria River at Lees Ferry, Ariz.

LOCATION.--Lat 36°52'20", long 111°35'38", in NW¼NE¼ sec.13, T.40 N., R.7 E., Coconino County, on left bank 0.6 mi (1.0 km) northwest of Lees Ferry, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--1,410 mi² (3,652 km²).

PERIOD OF RECORD.--October 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,123.40 ft (952.012 m) above mean sea level. Prior to Oct. 5, 1925, nonrecording gage at site 2,000 ft (610 m) upstream at different datum. Oct. 13, 1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--51 years, 30.4 ft³/s (0.861 m³/s), 22,020 acre-ft/yr (27.2 hm³/yr); median of yearly mean discharges, 26 ft³/s (0.74 m³/s), 18,800 acre-ft/yr (23 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 520 ft³/s (14.7 m³/s) July 23 (gage height, 7.90 ft or 2.408 m); minimum daily, 3.0 ft³/s (0.085 m³/s) June 26-29, July 2.

Period of record: Maximum discharge, 16,100 ft³/s (456 m³/s) Oct. 5, 1925, from rating curve extended above 2,000 ft³/s (57 m³/s) on basis of float-area measurement of peak flow (previously published maximum for Sept. 12, 1958, is too high); maximum gage height, 16.35 ft (4.983 m) Sept. 1, 1963; no flow for part of several days in most years prior to 1928, result of upstream freezeup.

REMARKS.--Records good. Diversions above station for irrigation of about 3,300 acres (13.4 km²). Records of water temperatures and suspended-sediment loads for the current water year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1925: 1958(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	8.8	28	16	23	32	12	4.5	4.2	3.3	56	4.5
2	6.8	11	28	11	32	40	14	4.5	4.2	3.0	61	4.5
3	6.0	11	27	6.0	33	68	24	4.5	4.0	3.3	124	4.8
4	5.8	12	18	8.0	32	46	16	4.8	3.9	3.4	34	5.5
5	5.8	12	18	8.0	31	26	13	5.0	3.6	3.4	16	5.5
6	6.2	13	21	10	24	24	11	5.0	3.4	3.4	16	8.0
7	5.8	13	21	11	22	25	8.6	5.0	3.6	3.4	16	28
8	6.2	14	20	12	15	24	7.4	4.8	3.4	3.6	13	10
9	6.5	14	22	18	16	24	9.8	4.5	3.9	3.3	14	8.2
10	7.0	15	21	33	18	28	10	4.2	3.9	3.3	16	7.4
11	7.4	14	20	29	23	28	9.4	4.2	3.9	3.3	13	5.8
12	7.4	15	20	19	27	24	9.8	4.2	3.9	3.3	9.4	6.0
13	7.8	15	23	22	30	24	7.4	4.2	3.8	3.3	7.4	6.2
14	7.8	14	29	26	30	23	6.8	4.2	3.8	3.3	6.5	6.5
15	4.2	13	23	30	28	23	7.8	4.4	3.8	3.4	5.8	5.8
16	7.8	14	20	30	28	23	7.0	4.0	3.8	5.3	5.5	10
17	7.4	14	19	30	32	23	7.4	4.2	3.6	68	5.5	16
18	7.8	16	22	32	32	23	7.4	4.2	3.8	16	5.8	24
19	8.2	16	23	33	24	20	8.2	4.4	3.4	12	5.2	15
20	8.2	20	19	37	27	18	7.4	4.4	3.4	41	5.2	10
21	8.2	16	18	31	24	16	7.0	4.5	3.2	16	5.0	7.4
22	8.2	21	13	31	20	15	6.8	4.4	3.3	28	5.0	7.0
23	8.6	21	19	16	23	14	6.0	4.4	3.3	156	5.2	7.0
24	8.2	20	23	18	21	13	5.5	4.4	3.2	74	5.0	7.4
25	8.2	21	21	16	20	13	5.8	4.4	3.2	26	5.0	6.8
26	8.2	24	18	18	21	12	5.0	4.4	3.0	15	5.0	7.8
27	8.2	19	18	18	26	13	5.0	4.4	3.0	12	5.0	6.5
28	8.6	20	17	20	26	16	5.0	4.2	3.0	13	4.8	6.2
29	8.6	18	34	31	-----	15	4.8	4.0	3.0	9.8	4.8	6.0
30	8.6	25	27	27	-----	13	4.5	3.9	3.2	6.2	4.5	6.0
31	8.6	-----	27	26	-----	13	-----	4.0	-----	44	4.5	-----
TOTAL	231.8	479.8	677	673.0	708	719	254.8	136.2	106.7	592.3	489.1	331.8
MEAN	7.48	16.0	21.8	21.7	25.3	23.2	8.66	4.39	3.56	19.1	15.8	11.1
MAX	8.6	25	34	37	33	68	24	5.0	4.2	156	124	80
MIN	5.5	8.8	13	6.0	15	12	4.5	3.9	3.0	3.0	4.5	4.5
AC-F T	460	952	1,340	1,330	1,400	1,430	515	270	212	1,170	970	658

CAL YR 1973 TOTAL 10,188.0 MEAN 27.9 MAX 429 MIN 2.4 AC-F T 20,210
 WTR YR 1974 TOTAL 5,404.5 MEAN 14.8 MAX 156 MIN 3.0 AC-F T 10,720

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above base.

VIRGIN RIVER BASIN

109

09404450 East Fork Virgin River near Glendale, Utah

LOCATION.--Lat 37°20'19", long 112°36'13", in SE 1/4 NE 1/4 sec. 14, T. 40 S., R. 7 W., Kane County, on right bank 50 ft (15 m) downstream from Lydia's Creek, and 1.5 miles (2.4 km) north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--74 sq mi (192 km²), approximately.

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

AVERAGE DISCHARGE.--8 years, 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.0 hm³/yr).

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 44 ft³/s (1.25 m³/s) Mar. 2 (gage height, 0.94 ft or 0.287 m); minimum, 7.2 ft³/s (0.20 m³/s) Aug. 19, 31, and Sept. 1.

Period of record: Maximum discharge, 635 ft³/s (18.0 m³/s) Sept. 7, 1967 (gage height, 4.05 ft or 1.234 m); minimum, 6.7 ft³/s (0.19 m³/s) Feb. 27, 1971.

REMARKS.--Records good. A few small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	16	16	17	22	16	14	13	11	9.6	7.6
2	12	14	17	16	17	31	21	14	13	11	12	8.1
3	12	14	15	16	16	24	18	14	14	11	10	8.4
4	12	14	15	16	17	19	17	14	13	10	10	8.9
5	12	14	15	17	17	19	18	14	13	10	9.8	11
6	12	14	16	17	16	20	17	14	13	10	9.6	9.6
7	12	15	16	17	16	19	17	14	13	10	9.2	8.9
8	13	15	16	17	16	19	17	14	13	10	10	8.7
9	13	15	16	17	17	19	16	14	13	10	9.3	8.6
10	13	15	16	17	17	19	16	14	13	10	8.9	8.9
11	13	15	16	17	17	20	16	14	12	10	8.5	8.9
12	13	15	16	17	17	21	15	14	12	9.8	8.5	8.9
13	13	15	16	17	17	21	15	14	12	9.9	8.4	9.0
14	13	15	16	17	17	21	15	14	12	10	8.4	8.9
15	13	15	16	17	17	20	15	14	12	12	8.1	9.7
16	13	15	16	17	17	20	15	14	12	11	8.2	9.3
17	13	15	16	18	17	19	15	13	12	11	8.1	9.3
18	13	17	16	18	17	19	15	14	12	10	7.9	9.4
19	13	16	16	17	17	18	15	14	11	11	7.6	9.5
20	13	15	15	17	16	18	15	14	11	11	7.7	9.6
21	13	15	15	18	17	17	15	14	11	11	7.7	9.9
22	13	16	16	17	17	17	14	14	11	11	7.7	9.9
23	12	16	16	17	17	17	14	14	10	10	7.8	10
24	13	16	16	17	16	17	14	14	11	10	8.0	9.8
25	13	15	16	17	17	17	14	14	11	10	7.9	9.9
26	13	15	16	17	17	17	14	14	11	9.6	7.9	11
27	14	15	16	17	18	17	14	13	11	9.6	7.9	10
28	14	15	16	17	18	16	15	13	11	9.8	7.9	9.9
29	14	16	17	17	-----	16	15	13	10	9.8	8.1	9.5
30	14	16	17	17	-----	16	15	13	10	9.3	8.0	9.3
31	14	-----	15	17	-----	16	-----	13	-----	9.6	7.9	-----
TOTAL	400	452	493	526	472	591	468	428	356	318.4	266.6	280.4
MEAN	12.9	15.1	15.9	17.0	16.9	19.1	15.6	13.8	11.9	10.3	8.60	9.35
MAX	14	17	17	18	18	31	21	14	14	12	12	11
MIN	12	14	15	16	16	16	14	13	10	9.3	7.6	7.6
AC-FT	793	897	978	1,040	936	1,170	928	849	706	632	529	556

CAL YR 1973 TOTAL 9,169.0 MEAN 25.1 MAX 155 MIN 12 AC-FT 18,190
WTR YR 1974 TOTAL 5,051.4 MEAN 13.8 MAX 31 MIN 7.6 AC-FT 10,020

PEAK DISCHARGE (BASE, 50 CFS).--No peaks above base.

VIRGIN RIVER BASIN

09405400 North Fork Virgin River near Glendale, Utah

LOCATION.--Lat 37°28'30", long 112°46'42", in SW¼SE¼ sec.30, T.38 S., R.8 W., Kane County, on right bank 700 ft (213 m) above diversion ditch, 3.5 miles (5.6 km) south of Navajo Lake, 14 road miles (23 km) from Navajo Lake turnoff at U-14 and 14 miles (23 km) northeast of Glendale.

DRAINAGE AREA.--5.65 mi² (14.63 km²).

PERIOD OF RECORD.--Dec. 1, 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,530 ft (2,295 m) from topographic map.

EXTREMES.--Current year: Maximum daily discharge, 10 ft³/s (0.28 m³/s) Oct. 30-Nov. 7; minimum daily discharge, 0.58 ft³/s (0.016 m³/s) Sept. 2.

Period of record: Maximum daily discharge, 30 ft³/s (0.85 m³/s) May 26, 1973; minimum daily discharge, 0.58 ft³/s (0.016 m³/s) Sept. 2, 1974.

REMARKS.--Records fair except for winter period, which are poor. No diversions or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	10	8.5	4.7	3.9	3.8	3.9	3.1	3.5	2.0	1.2	.59
2	7.5	10	8.2	4.6	3.9	3.8	3.9	3.3	3.8	2.0	.94	.58
3	7.6	10	8.0	4.5	3.8	3.8	4.0	3.7	3.8	2.0	1.1	.59
4	7.6	10	7.6	4.7	3.7	3.8	4.1	3.8	3.9	2.0	.90	.60
5	7.7	10	7.6	4.9	3.9	3.8	4.2	3.7	4.0	1.9	.90	1.0
6	7.9	10	7.9	4.9	3.8	3.9	4.3	3.4	3.8	1.7	1.0	.96
7	8.0	10	8.6	5.4	3.6	4.2	4.5	3.3	3.7	1.8	1.0	.84
8	8.3	9.9	9.0	5.4	3.5	4.2	4.3	3.0	3.1	1.8	.90	.80
9	8.5	9.9	9.0	4.8	3.5	4.3	4.2	3.4	2.7	1.7	.90	.76
10	8.6	9.9	8.8	4.5	3.6	4.1	4.3	4.2	2.7	1.7	.96	.76
11	8.7	9.9	8.8	4.3	3.8	3.9	4.2	4.2	2.7	1.6	.95	.76
12	8.6	9.9	8.6	4.6	4.0	3.9	4.1	4.1	2.7	1.6	.93	.96
13	8.6	9.9	8.6	4.8	4.1	4.0	3.9	4.1	2.5	1.5	.88	.90
14	8.6	9.9	8.4	4.4	4.1	4.0	3.7	4.1	2.4	1.5	.79	.75
15	8.6	9.9	8.1	4.1	4.0	4.0	3.5	4.2	2.3	1.4	.78	.70
16	8.6	9.8	8.0	4.1	4.0	4.0	3.5	4.2	2.2	1.3	.76	.66
17	8.6	9.6	8.0	4.3	3.9	4.0	3.7	4.1	2.2	1.2	.75	.65
18	8.6	9.2	7.9	4.5	3.8	4.0	3.7	3.9	2.2	1.5	.72	.68
19	8.6	9.0	7.6	4.2	3.8	4.0	4.0	3.9	2.3	1.9	.68	.70
20	8.8	8.6	7.5	4.1	3.8	3.9	3.6	4.1	2.3	1.7	.68	.69
21	9.5	8.4	7.3	4.0	3.8	3.8	3.1	4.0	2.3	2.1	.67	.68
22	9.5	8.3	7.3	3.8	3.9	3.8	3.2	3.9	2.3	1.5	.67	.72
23	9.5	8.2	7.2	3.8	3.9	3.8	3.3	3.8	2.2	1.2	.68	.75
24	9.8	8.1	6.8	3.7	3.8	3.8	3.4	3.7	2.2	.94	.69	.73
25	9.9	8.0	6.5	3.7	3.8	3.8	3.3	3.7	2.1	.96	.67	.83
26	9.7	8.0	6.1	3.7	3.8	3.8	3.2	3.6	2.1	.90	.66	.87
27	9.6	8.0	5.9	3.7	3.8	3.8	3.2	3.5	2.1	.84	.65	.77
28	9.5	8.4	5.6	3.7	3.8	3.8	3.1	3.4	2.1	.82	.65	.76
29	9.6	8.6	5.4	3.7	-----	3.8	3.1	3.3	2.1	.80	.62	.76
30	10	8.7	5.0	3.6	-----	3.8	3.0	3.3	2.1	.94	.61	.79
31	10	-----	4.8	3.6	-----	3.8	-----	3.4	-----	.94	.60	-----
TOTAL	272.1	278.1	232.6	132.8	107.1	121.2	111.5	115.4	80.4	45.74	24.89	22.59
MEAN	8.78	9.27	7.50	4.28	3.83	3.91	3.72	3.72	2.68	1.48	.80	.75
MAX	10	10	9.0	5.4	4.1	4.3	4.5	4.2	4.0	2.1	1.2	1.0
MIN	7.5	8.0	4.8	3.6	3.5	3.8	3.0	3.0	2.1	.80	.60	.58
AC-FT	540	552	461	263	212	240	221	229	159	91	49	45

CAL YR 1973 TOTAL 3,514.30 MEAN 9.63 MAX 30 MIN 2.3 AC-FT 6,970
WTR YR 1974 TOTAL 1,544.42 MEAN 4.23 MAX 10 MIN .58 AC-FT 3,060

PEAK DISCHARGE (BASE, 18 CFS). No peak above base.

NOTE.--No gage-height record Jan. 3 to Feb. 20.

VIRGIN RIVER BASIN

111

09405500 North Fork Virgin River near Springdale, Utah

LOCATION.--Lat 37°12'35", long 112°58'40", in SW¼NW¼ sec.22, T.41 S., R.10 W., Washington County, on right bank in Zion National Park, 0.2 mile (0.3 km) downstream from point of diversion of Springdale Canal, 0.5 mile (0.8 km) downstream from Pine Creek, and 1.9 miles (3.1 km) northeast of Springdale.

DRAINAGE AREA.--350 mi² (906 km²), approximately.

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft (1,210 m) from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 miles (5.1 km) downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mile (1.3 km) of present site at various datums.

AVERAGE DISCHARGE.--49 years, 99.5 ft³/s (2.818 m³/s), 72,090 acre-ft/yr (88.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 776 ft³/s (22.0 m³/s) Sept. 5 (gage height, 3.48 ft or 1.061 m); minimum, 24 ft³/s (0.68 m³/s) July 27.

Period of record: Maximum discharge, 9,150 ft³/s (259 m³/s) Dec. 6, 1966, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on the basis of a drift measurement at gage height 6.71 ft (2.045 m), a slope-area measurement at gage height 10.25 ft (3.124 m); minimum observed, 20 ft³/s (0.57 m³/s) July 31, 1963.

REMARKS.--Records good. Figures given herein include Springdale Canal, which diverts water in NW¼NW¼ sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion above station for irrigation of about 1,400 acres (570 ha).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	62	56	50	49	54	75	110	55	49	49	43
2	49	62	63	45	48	96	151	115	62	48	31	43
3	49	62	47	43	47	85	75	128	63	46	39	43
4	49	62	53	45	46	54	71	127	61	45	28	43
5	50	62	52	53	49	55	76	118	60	48	27	91
6	50	58	52	49	43	60	75	112	58	47	31	67
7	50	60	53	55	43	59	80	105	58	47	25	36
8	50	60	54	63	42	60	74	114	56	47	27	34
9	51	59	51	61	42	59	77	115	55	46	31	32
10	51	60	51	51	45	59	76	110	55	46	30	32
11	53	59	52	47	48	57	75	102	55	46	31	41
12	54	58	55	52	48	63	76	90	55	44	36	42
13	53	57	54	57	51	65	69	85	55	44	43	42
14	52	57	54	53	51	72	68	76	57	43	43	41
15	52	55	49	49	48	80	68	72	52	45	43	45
16	52	55	52	50	49	84	74	72	51	42	42	44
17	53	54	54	56	51	88	86	68	51	44	41	43
18	54	90	54	61	48	87	101	63	55	46	40	48
19	53	65	48	54	49	84	98	59	55	73	42	46
20	54	55	49	55	46	78	81	58	56	56	44	35
21	55	61	49	102	41	72	84	61	54	78	43	33
22	57	61	59	51	46	72	89	60	53	69	41	32
23	58	62	55	46	49	71	104	58	52	36	39	35
24	58	55	51	46	46	71	113	57	51	29	39	37
25	58	60	46	45	47	75	106	57	49	27	40	37
26	65	58	50	45	52	81	112	56	49	25	41	35
27	64	50	46	45	53	76	97	52	47	24	41	35
28	65	52	60	45	52	71	96	49	46	29	43	36
29	64	59	56	46	-----	71	89	48	47	35	43	38
30	61	57	54	45	-----	87	93	47	46	36	43	38
31	60	-----	45	46	-----	84	-----	47	-----	38	43	-----
TOTAL	1,693	1,787	1,624	1,611	1,329	2,230	2,609	2,491	1,619	1,378	1,179	1,247
MEAN	54.6	59.6	52.4	52.0	47.5	71.9	87.0	80.4	54.0	44.5	38.0	41.6
MAX	65	90	63	102	53	96	151	128	63	78	49	91
MIN	49	50	45	43	41	54	68	47	46	24	25	32
AC=FT	3,360	3,540	3,220	3,200	2,640	4,420	5,170	4,940	3,210	2,730	2,340	2,470

CAL YR 1973 TOTAL 63,431 MEAN 174 MAX 1,270 MIN 45 AC-FT 125,800
WTR YR 1974 TOTAL 20,797 MEAN 57.0 MAX 151 MIN 24 AC-FT 41,250

PEAK DISCHARGE (BASE, 800 CFS).--No peak above base.

VIRGIN RIVER BASIN

09406300 Kanarra Creek at Kanarraville, Utah

LOCATION.--Lat 37°32'13", long 113°10'00", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.37 S., R.12 W., Iron County, on left bank 2,000 ft (610 m) upstream from mouth of canyon and 0.8 mile (1.3 km) east of Kanarraville.

DRAINAGE AREA.--9.85 mi² (25.51 km²).

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (1,747 m) above mean sea level (from topographic map). Prior to Oct. 16, 1968, at site 1,500 ft (457 m) downstream at different datum.

AVERAGE DISCHARGE.--15 years, 3.99 ft³/s (0.113 m³/s), 2,890 acre-ft/yr (3.56 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 65 ft³/s (1.84 m³/s) probably occurred July 30 (gage height, 2.29 ft or 0.698 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 12, 13.

Period of record: Maximum discharge, about 1,000 ft³/s (28.3 m³/s) Aug. 17, 1970 (gage height, 2.25 ft or 0.686 m, from floodmark); minimum recorded, 0.7 ft³/s (0.020 m³/s) Feb. 10, 1965.

REMARKS.--Records poor. One small diversion 2 miles (3 km) above station diverts water from a spring for the water supply of Kanarraville. Total flow is usually diverted at mouth of canyon for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.4	2.5	2.4	3.4	3.3	5.2	6.8	3.5	2.8	3.1	1.8
2	2.6	2.4	2.5	2.0	3.4	3.0	6.2	6.8	3.7	2.8	2.5	1.8
3	2.6	2.4	3.1	2.2	3.4	2.8	3.6	6.8	3.6	2.7	2.4	1.9
4	2.7	2.4	2.7	2.6	3.4	2.7	3.8	6.4	3.5	2.5	2.4	1.9
5	2.5	2.4	2.5	2.6	3.0	2.7	4.3	5.8	3.5	2.4	2.2	2.4
6	2.5	2.4	2.5	2.6	2.6	3.0	4.9	5.5	3.4	2.6	2.2	2.0
7	2.5	2.4	2.5	2.6	2.4	3.0	5.4	5.2	3.3	2.4	2.2	1.8
8	2.7	2.4	2.5	2.5	2.3	3.0	5.4	5.2	3.5	2.4	2.2	1.7
9	3.5	2.4	2.5	2.4	2.3	3.1	5.4	5.1	3.5	2.4	2.2	1.8
10	3.2	2.4	2.5	2.3	2.3	3.5	5.4	4.6	3.4	2.4	2.2	1.8
11	3.2	2.4	2.6	2.3	2.5	3.9	5.4	4.2	3.3	2.3	2.2	1.7
12	3.0	2.4	2.6	2.5	2.9	4.3	5.0	4.0	3.3	2.2	2.2	1.6
13	2.9	2.4	2.6	2.8	2.9	4.6	4.5	3.9	3.2	2.2	2.2	1.6
14	2.8	2.4	2.6	3.3	2.9	4.5	5.2	3.8	3.1	2.4	2.3	1.7
15	2.8	2.4	2.6	3.7	2.9	4.1	5.8	3.5	3.1	2.6	2.4	1.7
16	2.7	2.4	2.6	3.7	2.9	4.1	5.8	3.7	3.0	2.7	2.3	1.8
17	2.7	3.0	2.6	3.7	2.9	4.2	5.8	3.6	3.0	2.5	2.2	1.7
18	2.6	3.5	2.6	3.7	2.8	4.6	5.8	3.7	2.9	2.3	2.2	1.8
19	2.7	3.0	2.6	3.7	2.8	5.0	5.8	3.8	2.9	4.9	2.1	1.9
20	2.7	3.5	2.6	3.7	2.8	5.7	5.2	3.9	3.0	2.9	2.1	1.9
21	2.7	3.1	2.6	3.2	2.7	6.2	5.3	3.9	3.4	3.6	2.1	1.9
22	2.8	3.0	2.6	3.2	2.5	5.3	5.6	4.0	3.7	2.9	2.1	2.0
23	2.8	2.9	2.7	3.2	2.5	4.7	6.6	3.9	3.4	2.8	2.0	2.0
24	2.8	2.8	2.7	3.2	2.5	5.3	7.8	3.9	3.0	2.6	2.0	2.0
25	2.7	2.7	2.7	3.2	2.5	6.6	8.0	3.8	2.7	2.6	2.0	1.9
26	2.7	2.7	2.7	3.2	2.7	6.0	7.6	3.8	2.7	2.6	1.9	1.9
27	2.6	2.6	2.7	3.4	2.9	5.4	6.9	3.7	3.0	2.4	1.8	1.9
28	2.6	2.6	2.7	3.4	3.1	4.9	6.8	3.7	3.1	2.4	1.8	1.8
29	2.5	2.5	2.7	3.4	-----	4.5	6.7	3.6	2.9	2.4	1.8	1.8
30	2.4	2.5	2.7	3.4	-----	4.3	6.6	3.6	2.8	3.1	1.9	1.8
31	2.4	-----	2.7	3.4	-----	4.3	-----	3.5	-----	2.4	1.8	-----
TOTAL	84.5	78.8	81.3	93.5	78.2	132.6	171.8	137.7	96.4	82.2	67.0	55.3
MEAN	2.73	2.53	2.62	3.02	2.79	4.28	5.73	4.44	3.21	2.65	2.16	1.84
MAX	3.5	3.5	3.1	3.7	3.4	6.6	8.0	6.8	3.7	4.9	3.1	2.4
MIN	2.4	2.4	2.5	2.0	2.3	2.7	3.6	3.5	2.7	2.2	1.8	1.6
AC-FT	168	156	161	185	155	263	341	273	191	163	133	110

CAL YR 1973 TOTAL 4,072.9 MEAN 11.2 MAX 10.8 MIN 2.2 AC-FT 8,080
WTP YR 1974 TOTAL 1,159.3 MEAN 3.18 MAX 8.0 MIN 1.6 AC-FT 2,300

PEAK DISCHARGE (BASE, 100 CFS). No peak above base.

NOTE.--No record Oct. 31 to Mar. 11, Mar. 13 to Apr. 21.

VIRGIN RIVER BASIN

113

09406600 Ash Creek Reservoir near New Harmony, Utah

LOCATION.--Lat 37°24'38", long 113°14'05" in NE¼NE¼SE¼ sec.7, T.39 S., R.12 W., Washington County, on left bank 300 ft (91 m) west of highway I-15, 6 miles (10 km) southeast of New Harmony.

DRAINAGE AREA.--122 mi² (308 km²).

PERIOD OF RECORD.--Nov. 7, 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft (1,419 m) above mean sea level.

EXTREMES.--Current period: Maximum contents observed, 880 acre-ft (1.09 hm³) Mar. 9-12 (gage height, 44.1 ft or 13.4 m); no contents June 25 to July 15.

Period of record: Maximum contents observed, 4,510 acre-ft (5.56 hm³) Apr. 29, 1973 (gage height, 76.1 ft or 23.2 m); no contents June 25 to July 15, 1974.

REMARKS.--Reservoir is formed by a porous earthfill dam. Capacity, 4,230 acre-ft (5.22 hm³) between gage heights 30 ft (9.1 m), approximate bottom of reservoir, and 87 ft (26.5 m). Limited storage to a gage height of 60 ft (18.3 m). No dead storage. Reservoir is used for flood control and as a road base for highway I-15. Capacity table furnished by Utah Dept. of Natural Resources.

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

35	424	45	935
40	636		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	650	730	760	800	810	820	710	570	0	300	570
2	520	650	740	750	800	860	840	710	560	0	350	570
3	520	650	740	750	810	870	830	700	560	0	400	570
4	510	650	730	750	810	870	830	690	550	0	420	560
5	510	650	730	760	810	870	820	690	540	0	440	560
6	510	650	730	760	810	870	820	680	530	0	460	560
7	510	650	730	770	810	870	820	680	520	0	500	550
8	500	650	730	770	800	870	810	670	510	0	550	550
9	500	650	730	770	800	880	810	670	490	0	600	540
10	550	660	730	770	800	880	810	660	470	0	650	540
11	580	660	730	770	800	880	800	650	450	0	660	540
12	600	660	730	770	810	880	800	650	430	0	670	540
13	600	660	730	780	810	870	800	640	410	0	660	530
14	600	660	730	780	810	870	800	630	390	0	650	530
15	600	660	730	780	810	870	790	630	360	0	640	530
16	600	660	740	780	810	870	790	630	330	40	640	520
17	600	660	740	780	810	860	790	620	300	60	630	520
18	610	720	740	780	810	860	780	620	250	70	630	520
19	610	730	740	790	810	860	780	610	200	80	620	510
20	610	730	740	790	810	860	780	610	150	120	620	510
21	620	730	740	810	810	860	770	610	100	130	620	510
22	620	730	740	800	820	850	770	610	80	140	610	530
23	630	730	740	800	810	850	760	600	60	150	610	520
24	630	730	750	800	810	850	750	600	40	160	600	520
25	640	730	750	800	810	840	750	590	0	170	600	520
26	640	730	750	800	820	840	740	590	0	180	600	520
27	640	730	750	800	820	840	740	590	0	200	590	520
28	640	730	750	800	810	840	730	580	0	210	590	510
29	650	730	750	800	-----	830	730	580	0	220	580	510
30	650	730	750	800	-----	830	720	580	0	250	580	510
31	650	-----	750	800	-----	830	-----	570	-----	260	580	-----
MAX	650	730	750	810	820	880	840	710	570	260	670	570
MIN	500	650	730	750	800	810	720	570	0	0	300	510
(†)	-----	41.55	41.98	42.77	42.97	43.22	41.45	38.71	-----	-----	38.63	37.05
(‡)	+130	+80	+20	+50	+10	+20	-110	-150	-570	+260	+320	-70

CAL YR 1973..... ‡ -190
WTR YR 1974..... ‡ -10

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.

NOTE.--No gage-height record Oct. 1 to Nov. 6; June 29 to Aug. 11; contents interpolated

VIRGIN RIVER BASIN

09406700 South Ash Creek below Mill Creek, near Pintura, Utah

LOCATION.--Lat 37°21'50", long 113°20'01", in SW¼SW¼SE¼ sec.29, T.39 S., R.13 W., Washington County, on right bank 150 ft (46 m) downstream from Harmon Creek, and 3.5 miles (5.6 km) northwest of Pintura.

DRAINAGE AREA.--11.0 mi² (28.5 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (1,612 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 6.82 ft³/s (0.193 m³/s), 4,940 acre-ft/yr (6.09 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 52 ft³/s (1.47 m³/s) July 29 (gage height, 2.61 ft or 0.796 m); minimum daily, 0.64 ft³/s (0.018 m³/s) Aug. 24-27.

Period of record: Maximum discharge, 1,910 ft³/s (54.1 m³/s) Dec. 6, 1966 (gage height, 5.83 ft or 1.777 m); minimum, 0.61 ft³/s (0.017 m³/s) Aug. 7-13, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.7	3.5	3.2	3.0	3.3	4.6	3.8	3.1	2.1	1.0	.66
2	4.1	3.7	3.5	3.2	3.0	6.3	6.0	3.8	3.1	2.0	.96	.65
3	4.0	3.7	3.4	3.3	3.0	4.0	5.0	3.8	3.1	2.0	.93	.69
4	4.0	3.7	3.4	3.2	3.0	3.5	4.8	3.8	3.0	2.0	.90	.70
5	4.0	3.7	3.4	3.3	3.0	3.4	4.7	3.8	3.0	2.0	.87	.70
6	4.0	3.7	3.4	3.3	3.0	3.4	4.4	3.8	2.9	2.0	.86	.73
7	4.0	3.8	3.4	3.2	3.1	3.5	4.3	3.8	2.9	2.0	.84	.72
8	4.0	3.7	3.4	3.1	3.1	3.6	4.3	3.8	2.9	2.0	.82	.72
9	4.2	3.7	3.4	3.1	3.1	3.8	4.4	3.9	2.8	2.0	.80	.67
10	4.1	3.7	3.4	3.1	3.1	4.0	4.4	3.9	2.8	2.0	.80	.65
11	4.1	3.7	3.4	3.1	3.1	3.8	4.4	3.8	2.7	2.0	.78	.65
12	4.1	3.7	3.4	3.1	3.0	4.0	4.4	3.8	2.7	1.9	.77	.65
13	4.2	3.7	3.4	3.1	3.0	4.3	4.3	3.8	2.7	1.8	.76	.68
14	4.2	3.6	3.4	3.1	3.0	4.7	4.3	3.7	2.7	1.8	.74	.68
15	4.0	3.6	3.4	3.1	3.0	5.0	4.2	3.6	2.6	1.9	.73	.68
16	4.0	3.6	3.3	3.1	3.1	5.4	4.1	3.5	2.6	1.8	.72	.68
17	3.9	3.6	3.3	3.2	3.1	5.5	4.1	3.5	2.5	1.6	.71	.68
18	3.9	4.2	3.3	3.2	3.0	5.6	4.1	3.5	2.5	1.6	.70	.68
19	3.9	3.5	3.3	3.2	3.1	5.5	4.2	3.5	2.4	2.0	.69	.68
20	3.9	3.4	3.3	3.3	3.0	5.3	4.1	3.6	2.5	1.6	.68	.68
21	3.9	3.4	3.3	3.4	3.1	5.1	4.1	3.4	2.6	1.5	.67	.68
22	3.9	3.5	3.2	3.0	3.2	5.0	4.0	3.3	2.6	1.4	.66	.68
23	3.9	3.5	3.2	3.1	3.1	5.0	4.0	3.3	2.6	1.4	.65	.68
24	3.9	3.5	3.2	3.1	3.1	4.9	4.1	3.3	2.5	1.3	.64	.68
25	3.9	3.5	3.2	3.1	3.2	4.8	3.9	3.3	2.5	1.2	.64	.68
26	3.9	3.4	3.2	3.1	3.1	4.8	4.0	3.2	2.3	1.2	.64	.73
27	3.8	3.4	3.2	3.1	3.1	4.8	4.0	3.3	2.4	1.1	.64	.68
28	3.8	3.4	3.2	3.1	3.1	4.8	4.0	3.2	2.1	1.2	.66	.65
29	3.7	3.4	3.2	3.1	-----	4.7	3.9	3.2	2.1	3.9	.66	.68
30	3.7	3.5	3.2	3.1	-----	4.7	3.9	3.2	2.1	1.4	.66	.68
31	3.6	-----	3.1	3.0	-----	4.7	-----	3.1	-----	1.1	.69	-----
TOTAL	122.7	108.2	102.9	97.7	85.8	141.2	129.0	110.3	79.3	54.8	23.27	20.45
MEAN	3.96	3.61	3.32	3.15	3.06	4.55	4.30	3.56	2.64	1.77	.75	.68
MAX	4.2	4.2	3.5	3.4	3.2	6.3	6.0	3.9	3.1	3.9	1.0	.73
MIN	3.6	3.4	3.1	3.0	3.0	3.3	3.9	3.1	2.1	1.1	.64	.65
AC-FT	243	215	204	194	170	280	256	219	157	109	46	41

CAL YR 1973 TOTAL 5,713.00 MEAN 15.7 MAX 79.0 MIN 3.1 AC-FT 11,340
WTR YR 1974 TOTAL 1,075.62 MEAN 2.95 MAX 6.3 MIN .64 AC-FT 2,130

PEAK DISCHARGE (BASE, 100 CFS). No peak above base.

VIRGIN RIVER BASIN

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09407200 Ash Creek below West Field Ditch at Toquerville, Utah

LOCATION.--Lat 37°15'57" long 113°16'50", sec.35, T.40 S., R.13 W., Washington County on left bank 400 ft (122 m) below the West Field Ditch diversion from Ash Creek, 0.5 mile (0.8 km) along turnoff from State Road 15 at north end of Toquerville.

DRAINAGE AREA.--190 mi² (487 km²).

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft (1,049 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 28 ft³/s (0.79 m³/s) Nov. 18; minimum daily discharge, 14 ft³/s (0.40 m³/s) July 31.
Period of record: Maximum discharge, 275 ft³/s (7.79 m³/s) Aug. 16, 1973; minimum daily discharge, 7.6 ft³/s (0.22 m³/s) Jan. 20, 21, 1973.

REMARKS.--Records good, except for periods of no gage-height record which are fair. Figures given herein include West Field Ditch and Toquerville Spring pipeline, both of which divert water about 400 ft (122 m) above the station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	20	22	23	18	20	19	18	18	16	15
2	19	20	20	22	23	18	20	19	18	18	16	15
3	19	20	21	22	23	20	19	19	17	18	16	15
4	19	20	21	22	23	18	20	19	17	18	15	15
5	19	20	22	22	23	18	19	19	17	18	15	15
6	18	21	22	22	23	18	18	19	17	18	16	15
7	19	21	22	22	23	18	18	19	17	18	16	15
8	19	21	22	22	23	18	18	19	17	18	16	15
9	20	21	22	22	22	19	18	19	16	18	16	15
10	19	21	22	22	22	19	18	19	16	18	16	15
11	19	21	23	22	22	19	18	19	17	18	16	15
12	19	21	23	22	23	18	19	19	17	18	16	15
13	19	21	23	22	22	18	20	18	17	18	16	15
14	19	21	23	22	22	18	20	18	16	18	15	15
15	19	21	23	22	22	18	20	18	17	18	15	15
16	19	21	23	21	23	19	20	18	17	18	15	15
17	19	21	23	20	23	19	20	18	17	18	15	15
18	19	22	22	20	22	19	20	18	16	18	15	15
19	19	21	22	20	22	19	20	18	17	18	15	15
20	19	20	22	21	23	18	20	18	17	17	15	15
21	19	20	22	21	23	19	20	18	17	19	15	15
22	19	20	22	22	23	19	20	18	17	19	15	15
23	19	21	22	23	21	19	20	19	17	17	15	15
24	19	21	22	23	18	18	20	18	16	17	15	15
25	19	21	22	22	18	19	20	18	16	17	15	15
26	19	21	23	22	18	23	20	17	16	17	16	15
27	20	19	22	22	18	21	19	19	16	17	16	15
28	20	20	22	22	18	20	19	19	16	17	16	15
29	19	20	22	22	-----	20	19	19	16	16	16	15
30	19	20	22	22	-----	20	19	19	16	16	16	15
31	19	-----	22	22	-----	20	-----	18	-----	14	16	-----
TOTAL	591	618	684	675	609	587	581	574	501	545	482	450
MEAN	19.1	20.6	22.1	21.8	21.8	18.9	19.4	18.5	16.7	17.6	15.5	15.0
MAX	20	22	23	23	23	23	20	19	18	19	16	15
MIN	18	19	20	20	18	18	18	17	16	14	15	15
AC-FT	1,170	1,230	1,360	1,340	1,210	1,160	1,150	1,140	994	1,080	956	893
CAL YR 1973	TOTAL	18,919.7	MEAN	51.8	MAX	275	MIN	7.6	AC-FT	37,530		
WTR YR 1974	TOTAL	6,897.0	MEAN	18.9	MAX	23	MIN	14	AC-FT	13,680		

Note.--No gage-height record May 25 to July 9.

VIRGIN RIVER BASIN

09408000 Leeds Creek near Leeds, Utah

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¼SE¼NE¼ sec. 36, T.40 S., R.14 W., Washington County, on left bank 1,150 ft (351 m) upstream from Leeds Ditch diversion, 2 miles (3 km) north of Leeds, and 4 miles (6 km) upstream from mouth.

DRAINAGE AREA.--15.5 mi² (40.1 km²).

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft (1,219 m) from topographic map. Prior to June 1920, at various sites and datums about 600 ft (183 m) downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft (305 m) downstream at different datum.

AVERAGE DISCHARGE.--10 years, 6.94 ft³/s (0.197 m³/s), 5,030 acre-ft/yr (6.20 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8.0 ft³/s (0.227 m³/s) Nov. 18 (gage height, 1.70 ft or 0.518 m); minimum, 1.4 ft³/s (0.040 m³/s) several days in Aug. and Sept.

Period of record: Maximum discharge, 2,710 ft³/s (76.7 m³/s) Aug. 6, 1967 (gage height, 5.78 ft or 1.762 m), site and datum then in use; minimum recorded, 0.23 ft³/s (0.007 m³/s) Jan. 3, 1971.

Maximum discharge measured, 2,980 ft³/s (84.4 m³/s) Aug. 12, 1964 (gage height, 6.00 ft or 1.829 m), from slope-area measurement.

REMARKS.--Records good. One diversion above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	5.1	4.5	4.4	4.2	4.2	3.9	3.4	2.4	2.2	2.2	1.7
2	5.8	5.1	4.6	4.4	4.2	4.5	4.7	3.4	2.5	2.2	2.1	1.7
3	5.8	5.1	4.5	4.4	4.2	4.4	3.9	3.3	2.5	2.3	2.1	1.8
4	5.5	5.1	4.5	4.4	4.2	4.3	3.8	3.3	2.4	2.3	2.1	1.9
5	5.5	5.1	4.5	4.4	4.2	4.2	3.8	3.3	2.4	2.2	2.1	2.1
6	5.5	5.1	4.5	4.4	4.2	4.1	3.7	3.3	2.5	2.2	2.0	2.2
7	5.5	5.1	4.5	4.4	4.2	4.1	3.7	3.2	2.4	2.3	1.9	2.0
8	5.6	5.1	4.5	4.3	4.2	4.3	3.7	3.2	2.5	2.3	2.3	1.9
9	5.9	5.0	4.5	4.2	4.2	4.2	3.7	3.2	2.6	2.2	2.1	1.8
10	5.8	4.9	4.5	4.2	4.2	4.3	3.9	3.1	2.5	2.2	2.1	1.8
11	5.8	4.9	4.5	4.2	4.1	4.2	3.8	3.1	2.5	2.2	2.0	1.7
12	5.8	4.9	4.5	4.3	4.2	4.1	3.8	3.0	2.5	2.2	2.0	1.8
13	5.7	4.9	4.5	4.3	4.3	4.1	3.8	3.0	2.5	2.1	2.0	1.9
14	5.6	4.9	4.5	4.4	4.2	4.2	3.8	3.0	2.5	2.2	2.0	1.9
15	5.4	4.9	4.5	4.3	4.2	4.2	3.8	3.0	2.4	2.3	1.9	1.9
16	5.4	4.8	4.5	4.3	4.2	4.2	3.7	2.9	2.4	2.3	1.9	1.9
17	5.4	4.7	4.3	4.5	4.3	4.2	3.5	2.9	2.4	2.2	1.9	1.9
18	5.4	5.5	4.3	4.5	4.2	4.3	3.5	3.0	2.4	2.2	1.8	1.8
19	5.4	5.0	4.3	4.4	4.2	4.3	3.6	3.1	2.4	2.3	1.8	1.8
20	5.4	4.7	4.3	4.7	4.2	4.1	3.6	3.1	2.4	2.3	1.8	1.7
21	5.4	4.7	4.3	4.6	4.4	4.0	3.5	3.0	2.4	2.3	1.8	1.7
22	5.4	4.8	4.3	4.5	4.3	4.0	3.5	3.0	2.4	2.3	1.8	1.7
23	5.4	4.7	4.3	4.4	4.3	4.0	3.5	2.9	2.2	2.2	1.8	1.7
24	5.4	4.7	4.3	4.3	4.3	4.0	3.5	2.9	2.2	2.1	1.8	1.7
25	5.4	4.7	4.3	4.3	4.2	3.9	3.4	2.8	2.3	2.0	1.7	1.7
26	5.4	4.5	4.4	4.2	4.2	4.0	3.5	2.6	2.2	1.9	1.7	1.9
27	5.2	4.5	4.4	4.2	4.2	3.9	3.5	2.5	2.2	1.9	1.8	1.7
28	5.1	4.6	4.4	4.2	4.2	3.9	3.5	2.5	2.2	1.9	1.7	1.8
29	5.1	4.5	4.4	4.2	-----	3.9	3.4	2.5	2.2	2.0	1.7	1.8
30	5.1	4.5	4.4	4.2	-----	3.8	3.4	2.5	2.2	1.9	1.7	1.8
31	5.1	-----	4.4	4.2	-----	3.9	-----	2.5	-----	2.3	1.7	-----
TOTAL	170.0	146.1	137.2	134.7	118.2	127.8	110.4	92.5	71.6	67.5	59.3	54.7
MEAN	5.48	4.87	4.43	4.35	4.22	4.12	3.68	2.98	2.39	2.18	1.91	1.82
MAX	5.9	5.5	4.6	4.7	4.4	4.5	4.7	3.4	2.6	2.3	2.3	2.2
MIN	5.1	4.5	4.3	4.2	4.1	3.8	3.4	2.5	2.2	1.9	1.7	1.7
AC-FT	337	290	272	267	234	253	219	183	142	134	118	108

CAL YR 1973 TOTAL 4,882.2 MEAN 13.4 MAX 46 MIN 4.3 AC-FT 9,680
WTR YR 1974 TOTAL 1,290.0 MEAN 3.53 MAX 5.9 MIN 1.7 AC-FT 2,560

PEAK DISCHARGE (BASE, 50 CFS).-- No peaks above base.

VIRGIN RIVER BASIN

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09408150 Virgin River near Hurricane, Utah

LOCATION.—Lat 37°09'45", long 113°23'42", in NE¼NE¼SW¼ sec.2, T.42 S., R.14 W., Washington County, on left bank at downstream side of bridge on State Highway 17, 1.8 miles (2.9 km) downstream from Quail Creek and 6.2 miles (10.0 km) west of Hurricane.

DRAINAGE AREA.—1,530 sq mi (3,960 km²), approximately.

PERIOD OF RECORD.—March 1967 to current year.

AVERAGE DISCHARGE.—7 years, 220 ft³/s (6.230 m³/s), 159,400 acre-ft/yr (197 hm³/yr).

GAGE.—Water-stage recorder. Altitude of gage is 2,760 ft (841 m) from topographic map.

EXTREMES.—Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) Apr. 2 (gage height, 3.67 ft or 1.119 m); minimum 38 ft³/s (1.076 m³/s) July 26.

Period of record: Maximum discharge, 12,800 ft³/s (362 m³/s) Jan. 25, 1969; minimum 29 ft³/s (0.82 m³/s) July 8, 1972; maximum stage known since at least 1909, 17.34 ft (5.285 m) Dec. 6, 1966, from floodmarks, discharge 20,100 ft³/s (569 m³/s).

REMARKS.—Records fair. Many diversions above station for irrigation. Record of water temperatures and suspended-sediment loads for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	103	204	140	172	162	116	112	63	60	121	62
2	67	105	210	150	170	223	189	119	63	58	83	67
3	67	105	177	150	167	322	142	128	69	50	87	73
4	73	107	164	160	167	198	149	132	63	48	183	77
5	79	107	157	165	167	198	152	128	62	50	135	87
6	77	109	164	170	162	239	128	128	57	52	232	279
7	77	114	154	180	164	232	116	116	60	53	107	144
8	79	114	157	210	162	210	112	121	60	60	85	109
9	85	116	157	200	164	183	103	121	58	58	71	96
10	89	119	154	180	167	167	107	121	58	57	53	116
11	87	116	152	165	172	167	107	109	60	58	50	137
12	87	114	152	165	172	164	105	103	57	55	60	167
13	85	121	152	180	175	167	105	98	58	52	83	180
14	87	121	152	170	170	167	89	94	58	53	60	216
15	94	121	147	175	167	175	83	85	57	62	65	310
16	94	123	144	178	170	170	81	77	55	65	63	135
17	94	121	147	189	170	162	87	69	57	65	65	130
18	96	172	147	220	170	155	100	71	58	62	65	130
19	96	265	152	210	167	149	112	71	57	58	58	152
20	100	180	137	223	170	149	109	77	58	167	50	135
21	105	170	135	334	162	149	87	87	58	96	48	119
22	109	198	144	242	164	137	96	85	53	239	45	105
23	105	210	152	175	167	130	103	79	53	216	46	105
24	105	192	157	183	167	149	116	79	58	121	50	123
25	109	186	164	178	162	147	114	77	62	53	53	114
26	103	192	162	180	162	147	114	73	58	42	55	105
27	103	198	152	175	162	142	112	69	57	44	65	109
28	103	189	154	175	164	116	105	67	55	46	62	114
29	103	198	157	175	-----	112	103	69	60	60	58	119
30	103	201	152	175	-----	109	107	63	57	62	58	114
31	103	-----	147	175	-----	121	-----	65	-----	119	60	-----
TOTAL	2,837	4,487	4,856	5,747	4,675	5,218	3,349	2,893	1,759	2,341	2,376	3,929
MEAN	91.5	150	157	185	167	168	112	93.3	58.6	75.5	76.6	131
MAX	109	265	210	334	175	322	189	132	69	239	232	310
MIN	67	103	135	140	162	109	81	63	53	42	45	62
AC-FT	5,630	8,900	9,630	11,400	9,270	10,350	6,640	5,740	3,490	4,640	4,710	7,790

CAL YR 1973 TOTAL 129,918 MEAN 356 MAX 2,120 MIN 64 AC-FT 257,700
WTR YR 1974 TOTAL 44,467 MEAN 122 MAX 334 MIN 42 AC-FT 88,200

PEAK DISCHARGE (BASE, 1,500 CFS). No peak above base.

VIRGIN RIVER BASIN

09408400 Santa Clara River near Pine Valley, Utah

LOCATION.—Lat 37°23'00", long 113°28'57", in NW¼SE¼NE¼ sec.24, T.39 S., R.15 W., Washington County, in Dixie National Forest, on right bank 150 ft (46 m) upstream from highway bridge, 0.6 mile (1.0 km) downstream from Pine Valley Reservoir, 1.6 miles (2.6 km) south-east of town of Pine Valley, and 2.5 miles (4.0 km) upstream from Grass Valley Creek.

DRAINAGE AREA.—18.7 mi² (48.4 km²).

PERIOD OF RECORD.—July 1959 to current year.

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

AVERAGE DISCHARGE.—15 years, 9.20 ft³/s (0.261 m³/s), 6,670 acre-ft/yr (8.22 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 19 ft³/s (0.538 m³/s) May 2 (gage height, 1.88 ft or 0.573 m); minimum discharge, 0.84 ft³/s (0.024 m³/s) Sept. 14.

Period of record: Maximum discharge, 776 ft³/s (22.0 m³/s) Dec. 6, 1966 (gage height, 6.85 ft or 2.088 m); minimum, 0.53 ft³/s (0.015 m³/s) Sept. 2, 1970.

REMARKS.—Records good. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	4.6	4.2	3.2	2.9	2.9	5.4	14	4.8	2.2	2.4	2.0
2	6.2	4.6	4.2	3.2	2.9	3.0	5.6	15	4.9	2.3	2.2	1.4
3	6.0	4.5	4.1	3.4	2.8	3.1	6.3	15	4.8	2.3	2.2	1.4
4	5.9	4.5	4.1	3.6	2.8	3.3	8.4	15	4.7	2.2	2.1	1.4
5	5.9	4.5	4.0	3.8	2.8	3.2	9.5	14	4.6	2.3	2.2	1.5
6	5.8	4.4	4.0	3.6	2.7	3.2	10	14	4.5	2.2	2.0	1.5
7	5.7	4.4	3.9	3.4	2.6	3.5	10	14	4.3	2.2	2.2	1.4
8	6.0	4.4	3.9	3.3	2.6	4.3	9.8	16	4.3	2.2	2.1	1.4
9	6.2	4.4	3.9	3.2	2.6	5.2	9.3	16	4.2	2.2	1.8	1.3
10	5.9	4.3	3.8	3.2	2.6	5.3	8.5	15	4.1	2.1	1.9	1.4
11	5.9	4.3	3.8	3.2	2.6	5.0	8.0	14	3.9	2.1	1.8	1.3
12	5.8	4.3	3.8	3.2	2.7	4.8	7.7	13	3.5	2.1	1.7	1.3
13	5.7	4.2	3.7	3.1	2.7	5.1	7.5	12	3.3	2.0	1.7	1.4
14	5.6	4.2	3.8	3.2	2.6	5.1	8.4	11	3.2	2.1	1.7	1.3
15	5.4	4.2	3.7	3.3	2.6	4.8	9.5	10	3.1	2.3	1.6	1.4
16	5.3	4.2	3.7	3.5	2.6	4.8	10	9.6	3.1	3.0	1.6	1.4
17	5.3	4.2	3.7	4.0	2.7	5.3	11	8.8	3.0	2.5	1.6	1.4
18	5.3	4.7	3.6	3.8	2.6	5.5	8.6	8.7	2.9	2.4	1.6	1.4
19	5.2	4.5	3.6	3.4	2.6	5.6	7.5	8.4	2.8	2.4	1.5	1.3
20	5.2	4.3	3.6	3.5	2.6	5.2	7.1	8.3	2.8	2.8	1.5	1.3
21	5.0	4.3	3.6	3.5	2.6	5.0	8.1	7.9	2.8	2.6	1.4	1.3
22	5.0	4.3	3.6	3.1	2.6	5.2	9.9	7.1	2.7	2.5	1.3	1.5
23	5.0	4.2	3.5	3.0	2.6	5.5	12	6.6	2.7	2.3	1.5	1.5
24	5.0	4.2	3.5	3.0	2.6	5.6	12	6.3	2.6	2.3	1.5	1.4
25	5.0	4.2	3.5	3.0	2.6	5.6	14	6.0	2.6	2.2	1.4	1.6
26	4.9	4.2	3.4	3.0	2.6	5.8	12	5.8	2.4	2.1	1.4	1.7
27	4.8	4.2	3.4	2.8	2.6	5.9	11	5.5	2.4	2.0	1.4	1.4
28	4.8	4.2	3.4	2.7	2.7	5.7	11	5.2	2.4	2.0	1.4	1.4
29	4.7	4.2	3.4	2.7	-----	5.7	11	5.0	2.3	2.0	1.4	1.4
30	4.7	4.2	3.2	2.8	-----	5.4	13	4.9	2.3	2.2	1.3	1.5
31	4.6	-----	3.2	2.9	-----	5.3	-----	4.9	-----	3.5	1.3	-----
TOTAL	168.0	129.9	114.8	100.6	74.5	148.9	282.1	317.0	102.0	71.6	52.7	42.9
MEAN	5.42	4.33	3.70	3.25	2.66	4.80	9.40	10.2	3.40	2.31	1.70	1.43
MAX	6.2	4.7	4.2	4.0	2.9	5.9	14	16	4.9	3.5	2.4	2.0
MIN	4.6	4.2	3.2	2.7	2.6	2.9	5.4	4.9	2.3	2.0	1.3	1.3
AC-FT	333	258	228	200	148	295	560	629	202	142	105	85

CAL YR 1973 TOTAL 10,096.2 MEAN 27.7 MAX 182 MIN 3.2 AC-FT 20,030
WTR YR 1974 TOTAL 1,605.0 MEAN 4.40 MAX 16 MIN 1.3 AC-FT 3,180

PEAK DISCHARGE (BASE, 60 CFS).—No peaks above base.

VIRGIN RIVER BASIN

119

09408500 Santa Clara-Pinto diversion near Pinto, Utah
(Transmountain diversion)

LOCATION.—Lat 37°28'04", long 113°28'21", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.19, T.38 S., R.14 W., Washington County, on the right bank 0.2 mile (0.3 km) downstream from outlet of diversion tunnel and 6 miles (10 km) southeast of Pinto.

PERIOD OF RECORD.—October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,820 ft (2,079 m) from topographic map. Prior to September 1962, at site 600 ft (183 m) upstream at different datum.

AVERAGE DISCHARGE.—14 years (1953-62, 1969-74) 2.57 ft³/s (0.073 m³/s), 1,860 acre-ft/yr (2.29 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 34 ft³/s (0.963 m³/s) Mar. 2 (gage height, 1.68 ft or 0.512 m); minimum discharge, no flow during most of year.

Period of record: Maximum discharge, 129 ft³/s (3.65 m³/s) Aug. 6, 1971 (gage height, 2.23 ft or 0.680 m); no flow for part of year.

REMARKS.—Records good. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	4.2	3.8		0		
2						15	3.8	4.4		0		
3						3.5	3.6	4.6		0		
4						2.4	2.9	4.4		0		
5						2.4	3.5	4.8		0		
6						1.8	4.8	4.6		0		
7						2.6	5.8	4.4		0		
8						1.5	5.5	4.4		0		
9						1.1	6.2	3.8		0		
10						.81	5.8	3.5		0		
11						1.6	5.3	3.5		0		
12						4.1	5.3	2.9		0		
13						3.5	4.4	2.9		0		
14						4.2	4.2	2.9		0		
15						3.3	4.2	2.6		0		
16						2.4	4.2	1.8		0		
17						1.8	4.8	1.5		0		
18						1.8	6.2	1.1		0		
19						1.8	7.3	1.0		0		
20						1.5	5.3	1.1		.45		
21						1.3	4.0	1.1		0		
22						1.8	2.8	.68		0		
23						1.7	4.4	.36		0		
24						1.6	5.1	.14		0		
25						2.9	4.2	.03		0		
26						4.4	4.4	0		0		
27						3.5	3.8	0		0		
28						3.5	3.6	0		0		
29					-----	2.6	3.5	0		0		
30					-----	4.2	3.5	0		0		
31		-----			-----	4.8	-----	0	-----	0		-----
TOTAL	0	0	0	0	0	89.41	136.6	66.31	0	.45	0	0
MEAN	0	0	0	0	0	2.88	4.55	2.14	0	.015	0	0
MAX	0	0	0	0	0	15	7.3	4.8	0	.45	0	0
MIN	0	0	0	0	0	0	2.8	0	0	0	0	0
AC-FT	0	0	0	0	0	177	271	132	0	.9	0	0
CAL YR 1973	TOTAL	3,202.31	MEAN	8.77	MAX	76	MIN	0	AC-FT	6,350		
WTR YR 1974	TOTAL	292.77	MEAN	.80	MAX	15	MIN	0	AC-FT	581		

VIRGIN RIVER BASIN

09409880 Santa Clara River at Gunlock, Utah

LOCATION.--Lat 37°16'55", long 113°46'00", in SW¼SW¼NW¼ sec.28, T.40 S., R.17 W., Washington County, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mile (0.8 km) below tailrace of powerhouse.

DRAINAGE AREA.--280 mi² (725 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,630 ft (1,106 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,360 ft³/s (38.5 m³/s) July 15 (gage height, 4.07 ft or 1.241 m), from rating curve extended on basis of logarithmic plotting; minimum, 2.6 ft³/s (0.074 m³/s) June 23-26.

Period of record: Maximum discharge, 1,360 ft³/s (38.5 m³/s) July 15, 1974 (gage height, 4.07 ft or 1.241 m) from rating curve extended above 200 ft³/s (5.66 m³/s); minimum, 0.53 ft³/s (0.015 m³/s) Sept. 22, 23, 1969.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow regulated by several reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	22	23	17	21	15	20	9.0	3.3	11	4.7
2	17	16	22	42	17	36	19	20	8.4	3.2	16	5.7
3	17	16	22	41	17	47	21	19	8.4	3.2	18	5.8
4	19	16	22	10	17	33	20	21	8.4	3.2	35	4.9
5	18	18	22	7.5	17	26	17	21	7.7	3.5	14	4.5
6	20	22	22	5.9	17	23	19	19	7.9	3.5	11	4.5
7	19	22	22	5.8	18	22	20	18	7.8	3.5	7.8	4.5
8	19	23	21	5.8	20	23	18	20	8.0	3.5	8.7	5.1
9	20	22	21	7.0	21	25	19	18	10	4.4	10	5.4
10	19	18	20	10	21	25	20	19	8.8	3.5	7.3	4.5
11	19	17	20	14	22	23	21	18	9.4	3.5	6.1	4.5
12	19	18	20	14	22	23	21	19	8.0	4.3	8.8	4.5
13	18	18	20	14	23	26	22	18	7.6	4.7	8.3	4.5
14	18	18	19	16	23	25	28	20	6.7	5.8	4.5	4.5
15	15	18	19	17	24	25	26	19	4.7	29	7.4	4.8
16	17	17	20	17	24	24	23	20	7.1	9.5	6.4	5.0
17	19	15	20	17	24	23	14	20	6.5	7.8	6.4	4.9
18	19	15	21	18	24	24	21	21	5.9	9.1	6.1	5.1
19	19	15	21	20	23	26	21	20	5.7	18	6.0	4.9
20	20	18	21	21	22	24	21	20	4.6	12	6.3	4.9
21	19	25	21	22	22	20	21	20	2.9	22	6.8	4.9
22	20	22	21	20	22	14	20	18	2.9	13	6.3	4.9
23	16	22	21	18	21	10	21	17	2.7	14	5.7	4.9
24	17	21	21	19	22	11	24	16	4.2	16	5.1	4.9
25	16	23	22	19	23	10	22	15	3.7	16	4.9	4.9
26	17	27	24	19	22	9.8	19	12	3.5	15	4.9	4.9
27	14	24	23	19	20	11	22	12	2.9	13	7.6	5.3
28	14	24	23	19	21	12	22	12	3.2	11	5.9	4.5
29	12	23	23	19	-----	8.6	19	12	3.2	9.9	5.4	5.0
30	11	22	23	19	-----	8.9	20	12	3.2	8.2	5.1	4.7
31	14	-----	24	19	-----	13	-----	9.0	-----	8.3	5.0	-----
TOTAL	539	591	663	538.0	586	652.3	616	545.0	183.0	284.9	267.8	146.1
MEAN	17.4	19.7	21.4	17.4	20.9	21.0	20.5	17.6	6.10	9.19	8.64	4.87
MAX	20	27	24	42	24	47	28	21	10	29	35	5.8
MIN	11	15	19	5.8	17	8.6	14	9.0	2.7	3.2	4.5	4.5
AC-FT	1,070	1,170	1,320	1,070	1,160	1,290	1,220	1,080	363	565	531	290
CAL YR 1973	TOTAL	22,638.0	MEAN	62.0	MAX	455	MIN	10	AC-FT	44,900		
WTR YR 1974	TOTAL	5,612.1	MEAN	15.4	MAX	47	MIN	2.7	AC-FT	11,130		

VIRGIN RIVER BASIN

121

09410100 Santa Clara River below Winsor Dam near Santa Clara, Utah

LOCATION.--Lat 37°11'18", long 113°46'01", in NE¼NW¼SW¼ sec.28, T.41 S., R.17 W., Washington County, on right bank, 1,400 ft (427 m) downstream from Winsor Dam, 0.6 mile (1.0 km) northwest of Shivwits Indian Village, and 7.5 miles (12.1 km) northwest of Santa Clara.

DRAINAGE AREA.--360 mi² (932 km²), approximately.

PERIOD OF RECORD.--December 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft (978 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 161 ft³/s (4.56 m³/s) Sept. 5 (gage height, 2.31 ft or 0.704 m); minimum recorded, 0.52 ft³/s (0.014 m³/s) Dec. 24.

Period of record: Maximum discharge, 954 ft³/s (27.0 m³/s) Apr. 29, 1973 (gage height, 3.58 ft or 1.091 m); no flow several days most years.

REMARKS.--Records good, except those for periods of no gage-height, which are fair. Many diversions for irrigation above station. Flow regulated by Gunlock Reservoir except for flooding between the reservoir and station.

REVISIONS.--WRD Utah 1973(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	3.2	1.9	.83	10	3.4	15	12	9.6	16	15	16
2	15	3.6	1.8	1.6	10	5.8	16	11	13	16	15	16
3	4.5	3.6	1.8	5.4	8.5	11	16	11	15	16	16	19
4	3.1	3.7	1.8	2.0	7.0	11	15	12	16	15	16	20
5	2.5	3.9	1.8	2.2	8.0	12	13	15	16	12	16	26
6	2.5	4.0	1.8	2.2	10	9.0	13	15	14	14	14	17
7	2.4	4.0	1.8	6.0	11	7.6	13	15	11	17	12	17
8	2.9	3.9	1.7	15	8.8	7.1	13	15	13	17	14	16
9	4.4	3.5	1.7	16	7.2	6.6	13	14	13	17	15	16
10	3.2	3.0	1.7	17	3.9	5.8	9.9	11	12	17	15	17
11	3.4	3.0	1.7	17	3.8	5.6	8.6	10	15	16	15	16
12	4.3	3.1	1.7	17	3.8	5.6	8.4	11	14	12	15	16
13	3.7	3.4	1.7	17	3.8	5.4	7.5	11	12	13	15	17
14	3.6	3.4	1.7	18	3.6	5.4	7.5	11	12	17	15	17
15	3.1	3.5	1.6	18	3.7	5.6	7.5	10	16	17	15	17
16	3.8	3.7	1.6	18	3.8	5.6	7.7	10	19	17	15	17
17	3.9	4.5	1.6	18	3.7	5.8	7.6	10	18	17	15	17
18	3.4	7.0	1.7	18	3.6	5.9	7.7	10	18	17	15	17
19	3.9	8.5	1.6	18	3.4	6.9	8.0	10	17	13	15	17
20	3.0	5.0	1.1	18	3.3	7.1	13	10	16	15	16	17
21	3.0	3.8	.60	19	3.2	7.1	15	10	12	21	16	17
22	3.0	3.0	.65	19	3.2	7.0	15	10	12	18	16	17
23	3.0	2.5	.68	19	3.1	6.9	15	9.8	17	13	16	17
24	3.0	2.3	.64	18	3.2	6.8	15	9.7	17	14	16	17
25	3.0	2.2	.67	17	3.5	8.3	14	9.3	17	16	16	17
26	3.1	2.1	.70	16	3.2	11	11	9.4	16	19	16	17
27	3.1	2.0	.75	12	2.9	13	11	9.5	16	16	16	17
28	3.0	2.0	.79	12	3.5	15	12	9.4	12	15	16	17
29	2.9	1.9	.80	12	-----	15	11	9.4	12	16	16	17
30	2.9	1.9	.90	12	-----	15	12	9.4	15	17	16	17
31	2.9	-----	.84	11	-----	15	-----	9.5	-----	17	16	-----
TOTAL	129.5	105.2	41.82	412.23	146.7	258.3	351.4	339.4	435.6	493	475	518
MEAN	4.18	3.51	1.35	13.3	5.24	8.33	11.7	10.9	14.5	15.9	15.3	17.3
MAX	20	8.5	1.9	19	11	15	16	15	19	21	16	26
MIN	2.4	1.9	.60	.83	2.9	3.4	7.5	9.3	9.6	12	12	16
AC-FT	257	209	83	818	291	512	697	673	864	978	942	1,030
CAL YR 1973	TOTAL	13,090.61	MEAN	35.9	MAX	489	MIN	.01	AC-FT	25,970		
WTR YR 1974	TOTAL	3,706.15	MEAN	10.2	MAX	26	MIN	.60	AC-FT	7,350		

NOTE:--No gage-height record Oct. 20 to Dec. 5.

VIRGIN RIVER BASIN

09410400 Santa Clara River near Santa Clara, Utah

LOCATION.--Lat 37°08'23", long 113°41'31", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.42 S., R.16 W., Washington County, on left bank 1 mile (2 km) downstream from Whitmore Canyon, and 2 miles (3 km) west of Santa Clara.

DRAINAGE AREA.--410 mi² (1,060 km²), approximately.

PERIOD OF RECORD.--May 1965 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 2,850 ft (869 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 20.8 ft³/s (0.589 m³/s), 15,070 acre-ft/yr (18.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 100 ft³/s (2.83 m³/s) Sept. 5 (gage height, 3.17 ft or 0.966 m); minimum discharge, 1.2 ft³/s (0.034 m³/s) Sept. 30.

Period of record: Maximum discharge, 6,390 ft³/s (181 m³/s) Dec. 7, 1966 (gage height, 12.60 ft or 3.840 m), from slope-area measurement of peak flow; no flow for several days in 1972 and 1973.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Gunlock Reservoir except for flooding between the reservoir and station. Station discontinued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	4.3	3.5	3.4	12	7.7	18	14	14	11	12	12
2	17	4.7	3.5	3.9	10	8.1	18	14	14	6.9	12	12
3	6.5	4.8	3.5	3.5	6.3	8.6	18	14	12	11	13	16
4	4.5	4.8	3.5	7.7	5.3	8.8	17	14	13	11	13	18
5	4.0	5.0	3.5	20	6.6	8.9	14	14	12	9.6	13	22
6	3.7	5.3	3.5	21	7.5	8.9	12	14	13	10	12	24
7	3.7	5.3	3.3	22	5.6	8.9	11	13	14	11	8.9	19
8	3.7	5.3	3.3	20	5.5	8.9	11	12	12	12	11	19
9	4.9	4.8	3.3	18	5.4	8.0	11	11	11	12	13	21
10	4.4	4.1	3.2	18	6.0	8.4	11	11	12	12	12	20
11	4.3	3.9	3.2	18	5.9	8.3	11	12	12	12	12	21
12	4.5	4.2	3.2	17	6.1	8.4	11	8.4	8.7	9.9	12	20
13	4.3	4.5	3.2	17	6.6	12	11	10	10	10	12	20
14	4.2	4.7	3.2	17	8.4	11	11	11	12	12	12	17
15	4.1	4.8	3.2	17	8.9	13	11	11	13	13	12	24
16	4.1	4.9	3.3	17	8.9	13	11	9.5	13	11	12	25
17	4.1	5.2	3.2	17	12	14	11	11	12	11	12	24
18	3.9	9.4	3.1	17	12	14	11	11	12	12	12	25
19	4.0	7.1	2.8	17	8.5	18	12	11	12	14	12	25
20	3.6	5.5	2.8	17	8.6	17	14	10	13	17	12	19
21	3.6	4.5	2.8	18	8.9	21	15	10	9.1	14	13	19
22	3.6	3.9	2.4	18	8.1	21	15	9.9	8.8	13	13	18
23	3.6	3.8	2.6	21	8.2	18	15	9.6	11	12	13	19
24	3.6	3.7	2.7	21	8.2	17	15	9.5	12	11	13	14
25	3.7	3.7	2.7	21	8.0	13	15	9.7	11	12	13	13
26	3.8	3.6	2.7	18	7.0	14	15	9.8	11	15	12	2.9
27	3.7	3.6	2.8	15	7.0	14	12	7.0	11	12	12	2.7
28	3.5	3.5	2.8	14	7.0	14	15	8.0	9.4	12	12	1.9
29	3.6	3.5	3.0	13	-----	13	15	12	10	14	12	1.8
30	3.5	3.5	2.8	13	-----	14	15	14	10	14	10	1.7
31	3.8	-----	3.2	12	-----	17	-----	14	-----	14	9.0	-----
TOTAL	150.5	139.9	95.8	492.5	218.5	389.9	402	349.4	348.0	371.4	371.9	497.0
MEAN	4.85	4.66	3.09	15.9	7.80	12.6	13.4	11.3	11.6	12.0	12.0	16.6
MAX	17	9.4	3.5	22	12	21	18	14	14	17	13	25
MIN	3.5	3.5	2.4	3.4	5.3	7.7	11	7.0	8.7	6.9	8.9	1.7
AC-FT	299	277	190	977	433	773	797	693	690	737	738	986
CAL YR 1973	TOTAL 14,316.22	MEAN 39.2	MAX 296	MIN .50	AC-FT 28,400							
WTR YR 1974	TOTAL 3,826.80	MEAN 10.5	MAX 25	MIN 1.7	AC-FT 7,590							

PEAK DISCHARGE (BASE, 300 CFS). No peak above base.

VIRGIN RIVER BASIN

123

09415000 Virgin River at Littlefield, Ariz.

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from water line of Lake Mead at elevation 1,221 ft (372.2 m) above mean sea level.

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

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

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

AVERAGE DISCHARGE.--45 years, 226 ft³/s (6.400 m³/s), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,840 ft³/s (165 m³/s) Sept. 5 (gage height, 10.26 ft or 3.127 m); minimum daily, 54 ft³/s (1.53 m³/s) Oct. 3-7.

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

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	132	238	141	214	102	85	70	64	68	111	64
2	56	135	231	141	207	112	72	70	64	68	80	64
3	54	120	256	132	204	304	392	70	64	68	70	66
4	54	123	228	135	195	324	245	70	62	66	68	66
5	54	141	217	189	192	180	144	70	62	66	284	457
6	54	129	198	224	195	153	135	70	64	66	181	1,390
7	54	138	198	214	186	159	105	68	64	66	168	190
8	60	141	192	273	192	171	80	68	62	68	66	80
9	80	129	195	276	195	231	75	66	64	68	64	68
10	95	138	180	252	192	228	72	66	66	70	64	58
11	108	147	177	234	192	228	72	66	66	70	64	60
12	102	141	174	224	183	201	72	66	66	70	64	62
13	80	138	174	224	183	189	70	66	66	70	64	64
14	72	153	171	220	171	177	72	68	64	70	64	68
15	78	144	171	217	168	171	72	68	64	72	64	66
16	82	153	165	201	147	177	72	68	64	75	63	68
17	78	162	171	195	147	189	72	68	62	70	63	66
18	75	171	162	220	147	204	68	68	62	68	63	64
19	85	260	168	234	150	171	68	66	64	72	63	64
20	94	256	168	220	135	141	68	66	62	75	63	62
21	112	207	153	285	141	126	66	66	62	96	63	62
22	112	210	147	444	132	115	68	66	62	94	60	62
23	98	256	150	298	123	98	66	66	62	92	62	62
24	86	242	156	256	126	92	66	66	58	180	62	60
25	80	252	174	262	132	115	66	66	56	135	62	60
26	95	256	189	238	95	102	66	66	56	66	62	60
27	95	245	174	245	98	123	66	66	60	56	64	66
28	108	231	141	242	105	123	68	62	64	62	62	66
29	112	231	153	228	-----	102	68	60	66	64	62	64
30	126	242	150	228	-----	92	70	60	66	58	62	64
31	129	-----	144	231	-----	85	-----	62	-----	75	62	-----
TOTAL	2,628	5,423	5,565	7,123	4,547	4,985	2,781	2,064	1,888	2,364	2,474	3,773
MEAN	84.8	181	180	230	162	161	92.7	66.6	62.9	76.3	79.8	126
MAX	129	260	256	444	214	324	392	70	66	180	284	1,390
MIN	54	120	141	132	95	85	66	60	56	56	60	58
AC-FT	5,210	10,760	11,040	14,130	9,020	9,890	5,520	4,090	3,740	4,690	4,910	7,480
CAL YR 1973	TOTAL	154,130	MEAN	422	MAX	3,000	MIN	34	AC-FT	305,700		
WTR YR 1974	TOTAL	45,615	MEAN	125	MAX	1,390	MIN	54	AC-FT	90,480		

Peak discharge (base, 1,600 cfs).--Sept. 5 (2130) 5,840 cfs (10.26 ft).

GREAT SALT LAKE BASIN

10010000 Great Salt Lake, Utah

LOCATION.--Lat 40°44'05", long 112°12'45", in NE¼SW¼NW¼ sec.17, T.1 S., R.3 W., Salt Lake County, at Salt Lake County Boat Harbor on southeast shore of lake, 17 miles (27 km) west of Salt Lake City.

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published only in WSP 1314.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.8 ft (1,276.14 m) above mean sea level, datum of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft (1,276.17 m) and April 15, 1967 to September 15 1970, at datum 4,186.85 ft (1,276.15 m). Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at datum 4,208.4 ft (1,282.72 m) above mean sea level, November 1877 to November 1879 at Farmington Bay at datum 4,206.9 ft (1,282.26 m) above mean sea level, November 1879 to April 1881 near Black Rock at datum 4,203.1 ft (1,281.10 m) above mean sea level, April 1881 to December 1899 at Garfield Landing at datum 4,198.5 ft (1,279.70 m) above mean sea level, and July 1903 to October 1938 at Saltair at datum 4,196.9 ft (1,279.22 m) above mean sea level. Staff gage at Midlake October 1902 to September 1956 at datum 4,197.9 ft (1,279.52 m) above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum elevation, 4,201.30 ft (1,280.556 m) June 1; minimum, 4,199.20 ft (1,279.916 m) Oct. 1, 15, Nov. 1. Period of record: Maximum elevation observed, 4,210.9 ft (1,283.48 m) June 30, 1876; minimum, 4,191.35 ft (1,277.523 m) Oct. 15, Nov. 1, 1963.

Maximum elevation since 1851, 4,211.6 ft (1,283.70 m) in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

REMARKS.--To compensate for wind effect and siches, elevations given for the gage are taken from a mean slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

REVISIONS(WATER YEARS).--WSP 1314: 1877. Revised figures of elevation for the water years 1967-1973, superseding those published in the WRD State Reports for Utah for the years 1967-1973, are given herein.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEARS OCTOBER 1966 TO SEPTEMBER 1973

DAY	GAGE HEIGHT	ELEVATION	DAY	GAGE HEIGHT	ELEVATION
Oct. 1, 1966.....	6.50	4,193.40	Nov. 1.....	7.55	4,194.40
15.....	6.40	4,193.30	15.....	7.60	4,194.45
Nov. 1.....	6.30	4,193.20	Dec. 1.....	7.70	4,194.55
15.....	6.40	4,193.30	15.....	7.85	4,194.70
Dec. 1.....	6.40	4,193.30	Jan. 1, 1969.....	8.05	4,194.90
15.....	6.50	4,193.40	15.....	8.25	4,195.10
Jan. 1, 1967.....	6.60	4,193.50	Feb. 1.....	8.65	4,195.50
15.....	6.60	4,193.50	15.....	8.85	4,195.70
Feb. 1.....	6.80	4,193.70	Mar. 1.....	9.20	4,196.05
15.....	6.95	4,193.85	15.....	9.45	4,196.30
Mar. 1.....	7.05	4,193.95	Apr. 1.....	9.85	4,196.70
15.....	7.05	4,193.95	15.....	10.15	4,197.00
Apr. 1.....	7.15	4,194.05	May 1.....	10.20	4,197.05
15.....	7.25	4,194.10	15.....	10.25	4,197.10
May 1.....	7.45	4,194.30	June 1.....	10.05	4,196.90
15.....	7.55	4,194.40	15.....	9.85	4,196.70
June 1.....	7.60	4,194.45	July 1.....	9.80	4,196.65
15.....	8.00	4,194.85	15.....	9.70	4,196.55
July 1.....	8.30	4,195.15	Aug. 1.....	9.45	4,196.30
15.....	8.10	4,194.95	15.....	9.15	4,196.00
Aug. 1.....	7.80	4,194.65	Sept. 1.....	8.85	4,195.70
15.....	7.55	4,194.40	15.....	8.60	4,195.45
Sept. 1.....	7.30	4,194.15	Oct. 1.....	8.40	4,195.25
15.....	7.10	4,193.95	15.....	8.25	4,195.10
Oct. 1.....	7.00	4,193.85	Nov. 1.....	8.40	4,195.25
15.....	6.95	4,193.80	15.....	8.50	4,195.35
Nov. 1.....	6.95	4,193.80	Dec. 1.....	8.60	4,195.45
15.....	7.00	4,193.85	15.....	8.70	4,195.55
Dec. 1.....	7.05	4,193.90	Jan. 1, 1970.....	8.85	4,195.70
15.....	7.05	4,193.90	15.....	8.85	4,195.70
Jan. 1, 1968.....	7.15	4,194.00	Feb. 1.....	9.25	4,196.10
15.....	7.30	4,194.15	15.....	9.40	4,196.25
Feb. 1.....	7.40	4,194.25	Mar. 1.....	9.45	4,196.30
15.....	7.50	4,194.35	15.....	9.50	4,196.35
Mar. 1.....	7.95	4,194.80	Apr. 1.....	9.55	4,196.40
15.....	8.30	4,195.15	15.....	9.45	4,196.30
Apr. 1.....	8.45	4,195.30	May 1.....	9.50	4,196.35
15.....	8.55	4,195.40	15.....	9.50	4,196.35
May 1.....	8.60	4,195.45	June 1.....	9.55	4,196.40
15.....	8.55	4,195.40	15.....	9.55	4,196.40
June 1.....	8.55	4,195.40	July 1.....	9.40	4,196.25
15.....	8.75	4,195.60	15.....	9.20	4,196.05
July 1.....	8.60	4,195.45	Aug. 1.....	8.85	4,195.70
15.....	8.35	4,195.20	15.....	8.65	4,195.50
Aug. 1.....	8.10	4,194.95	Sept. 1.....	8.40	4,195.25
15.....	7.85	4,194.70	15.....	8.25	4,195.10
Sept. 1.....	7.80	4,194.65	Oct. 1.....	8.10	4,194.90
15.....	7.70	4,194.55	15.....	8.05	4,194.85
Oct. 1.....	7.45	4,194.30	Nov. 1.....	8.10	4,194.90
15.....	7.35	4,194.20	15.....	8.35	4,195.15

GREAT SALT LAKE BASIN

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10010000 Great Salt Lake, Utah--Continued

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEARS OCTOBER 1966 TO SEPTEMBER 1974

DAY	GAGE HEIGHT	ELEVATION	DAY	GAGE HEIGHT	ELEVATION
Dec. 1.....	8.45	4,195.25	Nov. 1.....	11.30	4,198.10
15.....	8.70	4,195.50	15.....	11.45	4,198.25
Jan. 1, 1971.....	8.85	4,195.65	Dec. 1.....	11.60	4,198.40
15.....	9.00	4,195.80	15.....	11.65	4,198.45
Feb. 1.....	9.45	4,196.25	Jan. 1, 1973.....	11.85	4,198.65
15.....	9.70	4,196.50	15.....	11.95	4,198.75
Mar. 1.....	9.90	4,196.70	Feb. 1.....	12.15	4,198.95
15.....	10.00	4,196.80	15.....	12.40	4,199.20
Apr. 1.....	10.15	4,196.95	Mar. 1.....	12.55	4,199.35
15.....	10.30	4,197.10	15.....	13.00	4,199.80
May 1.....	10.75	4,197.55	Apr. 1.....	13.35	4,200.15
15.....	10.95	4,197.75	15.....	13.40	4,200.20
June 1.....	11.10	4,197.90	May 1.....	13.55	4,200.35
15.....	11.20	4,198.00	15.....	13.65	4,200.45
July 1.....	11.20	4,198.00	June 1.....	13.65	4,200.45
15.....	11.00	4,197.80	15.....	13.55	4,200.35
Aug. 1.....	10.75	4,197.55	July 1.....	13.35	4,200.15
15.....	10.45	4,197.25	15.....	13.05	4,199.85
Sept. 1.....	10.25	4,197.05	Aug. 1.....	12.90	4,199.70
15.....	10.25	4,197.05	15.....	12.65	4,199.45
Oct. 1.....	10.05	4,196.85	Sept. 1.....	12.35	4,199.15
15.....	10.20	4,197.00	15.....	12.35	4,199.15
Nov. 1.....	10.35	4,197.15	Oct. 1.....	12.40	4,199.20
15.....	10.65	4,197.45	15.....	12.40	4,199.20
Dec. 1.....	10.80	4,197.60	Nov. 1.....	12.40	4,199.20
15.....	10.85	4,197.65	15.....	12.45	4,199.25
Jan. 1, 1972.....	11.05	4,197.85	Dec. 1.....	12.55	4,199.35
15.....	11.20	4,198.00	15.....	12.65	4,199.45
Feb. 1.....	11.45	4,198.25	Jan. 1, 1974.....	12.80	4,199.60
15.....	11.60	4,198.40	15.....	12.85	4,199.65
Mar. 1.....	11.90	4,198.70	Feb. 1.....	13.05	4,199.85
15.....	12.10	4,198.90	15.....	13.25	4,200.05
Apr. 1.....	12.20	4,199.00	Mar. 1.....	13.40	4,200.20
15.....	12.45	4,199.25	15.....	13.75	4,200.55
May 1.....	12.70	4,199.50	Apr. 1.....	13.90	4,200.70
15.....	12.80	4,199.60	15.....	14.25	4,201.05
June 1.....	12.70	4,199.50	May 1.....	14.35	4,201.15
15.....	12.60	4,199.40	15.....	14.45	4,201.25
July 1.....	12.35	4,199.15	June 1.....	14.50	4,201.30
15.....	12.20	4,199.00	15.....	14.45	4,201.25
Aug. 1.....	11.80	4,198.60	July 1.....	14.20	4,201.00
15.....	11.60	4,198.40	15.....	13.65	4,200.45
Sept. 1.....	11.30	4,198.10	Aug. 1.....	13.40	4,200.20
15.....	11.15	4,197.95	15.....	13.05	4,199.85
Oct. 1.....	11.10	4,197.90	Sept. 1.....	12.85	4,199.65
15.....	11.15	4,197.95	15.....	12.55	4,199.35
			Oct. 1.....	12.45	4,199.25

GREAT SALT LAKE BASIN

10010050 Great Salt Lake at Promontory Point, Utah

LOCATION.—Lat 41°12'55", long 112°29'55", in NE¼SW¼SE¼ sec.26, T.6 N., R.6 W., at pipeline energy dissipator at head end of flume, 1.4 miles (2.3 km) west of Saline on south side of causeway, 500 ft (152 m) south of pumping plant, 25 miles (40 km) west of Ogden, and 37 miles (60 km) south of Thiokol.

PERIOD OF RECORD.—October 1968 to current year.

GAGE.—Water-stage recorder on pier of pipeline energy dissipator. Datum of gage, 4,190.00 ft (1,277.112 m) above mean sea level, datum of 1929. Levels from USGS BM 76FMK.

EXTREMES.—Current year: Maximum elevation, 4,201.20 ft (1,280.526 m) June 1, 15; minimum, 4,199.10 ft (1,279.886 m) Oct. 1, Nov. 1.

Period of record: Maximum elevation observed, 4,201.20 ft (1,280.526 m) June 1, 15, 1974; minimum, 4,194.15 ft (1,278.377 m) Oct. 1, 15, 1969.

REMARKS.—To compensate for wind effect and seiches, elevations given for the gage are taken from a mean slope line defined by several days' gage-height graph preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974		
Day	Gage height	Elevation
Oct. 1.....	9.10	4,199.10
15.....	9.15	4,199.15
Nov. 1.....	9.10	4,199.10
15.....	9.15	4,199.15
Dec. 1.....	9.30	4,199.30
15.....	a9.40	4,199.40
Jan. 1.....	9.50	4,199.50
15.....	9.60	4,199.60
Feb. 1.....	9.80	4,199.80
15.....	9.95	4,199.95
Mar. 1.....	10.15	4,200.15
15.....	10.45	4,200.45
Apr. 1.....	10.65	4,200.65
15.....	10.95	4,200.95
May 1.....	11.10	4,201.10
15.....	11.15	4,201.15
June 1.....	11.20	4,201.20
15.....	11.20	4,201.20
July 1.....	10.85	4,200.85
15.....	10.50	4,200.50
Aug. 1.....	10.20	4,200.20
15.....	9.75	4,199.75
Sept. 1.....	9.50	4,199.50
15.....	9.25	4,199.25
Oct. 1.....	9.10	4,199.10

a. No record, gage height estimated.

10010100 Great Salt Lake near Saline, Utah

LOCATION.--Lat 41°15'30", long 112°29'58", in NE¼SW¼SW¼ sec.11, T.6 N., R.6 W., Box Elder County, 1.5 miles (2.4 km) north of Saline at the Southern Pacific Causeway boat harbor, 25 miles (40 km) west of Ogden and 37 miles (60 km) south of Thiokol.

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

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.87 ft (1,277.072 m) above mean sea level, datum of 1929 by levels from U.S. Topographic Division, B.M. 78FMK.

EXTREMES.--Current year: Maximum elevation, 4,199.20 ft (1,279.916 m) May 1, 15, June 1; minimum, 4,197.50 ft (1,279.398 m) Oct. 15, Nov. 1.

Period of record: Maximum elevation observed, 4,199.20 ft (1,279.916 m) May 1, 15, June 1, 1974; minimum, 4,192.70 ft (1,277.935 m) Oct. 15, Nov. 1, 1966.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean slope line defined by several days' gage-height graph preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	Day	Gage height	Elevation
Oct.	1.....	7.80	4,197.65
	15.....	7.65	4,197.50
Nov.	1.....	7.65	4,197.50
	15.....	7.70	4,197.55
Dec.	1.....	7.80	4,197.65
	15.....	7.90	4,197.75
Jan.	1.....	8.15	4,198.00
	15.....	8.30	4,198.15
Feb.	1.....	8.55	4,198.40
	15.....	8.65	4,198.50
Mar.	1.....	8.85	4,198.70
	15.....	9.05	4,198.90
Apr.	1.....	9.10	4,198.95
	15.....	9.25	4,199.10
May	1.....	9.35	4,199.20
	15.....	9.35	4,199.20
June	1.....	9.35	4,199.20
	15.....	9.30	4,199.15
July	1.....	9.20	4,199.05
	15.....	9.00	4,198.85
Aug.	1.....	8.85	4,198.70
	15.....	8.60	4,198.45
Sept.	1.....	8.35	4,198.20
	15.....	8.15	4,198.00
Oct.	1.....	7.95	4,197.80

BEAR RIVER BASIN

10010400 East Fork Bear River near Evanston, Wyo.

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, Utah, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi² (89.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 563 ft³/s (15.9 m³/s) May 28 (gage height, 4.00 ft or 1.219 m); minimum, 5.9 ft³/s (0.17 m³/s) Apr. 8.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	20	14	11	10	11	14	39	384	173	51	18
2	27	20	14	11	10	11	15	45	389	166	58	18
3	26	20	14	11	10	11	15	39	389	150	50	18
4	25	20	14	11	10	11	14	42	361	135	45	18
5	25	20	14	11	10	11	15	63	363	128	42	18
6	25	18	14	11	10	12	15	82	289	121	41	17
7	24	18	14	11	10	12	15	104	237	116	40	17
8	24	18	14	11	10	12	13	145	202	111	38	16
9	26	18	14	11	10	12	12	209	179	107	36	16
10	27	18	14	11	10	12	12	233	181	103	35	15
11	25	18	13	11	10	13	14	200	222	98	33	16
12	25	18	13	11	10	13	12	205	293	92	32	18
13	26	18	13	11	10	13	15	199	355	87	31	17
14	28	18	13	11	10	13	19	176	414	84	29	17
15	27	18	13	11	10	13	22	171	429	82	28	16
16	26	18	13	10	10	15	26	174	412	88	27	16
17	24	18	13	10	10	20	21	187	410	83	26	15
18	23	18	13	10	10	16	18	200	395	81	26	15
19	22	18	13	10	10	13	16	199	387	88	25	14
20	22	18	13	10	10	13	16	159	385	90	24	14
21	21	16	12	10	10	13	23	134	357	79	24	14
22	20	16	12	10	10	13	25	123	322	73	24	14
23	20	16	12	10	10	13	19	129	300	74	23	14
24	22	16	12	10	10	13	23	154	285	69	22	13
25	21	16	12	10	10	14	32	204	271	64	22	13
26	20	16	12	10	11	18	35	275	256	60	21	13
27	22	16	12	10	11	17	31	379	232	61	21	14
28	23	16	12	10	11	14	33	465	210	60	20	14
29	18	16	12	10	-----	15	28	475	195	54	20	14
30	24	16	12	10	-----	15	30	420	184	52	19	13
31	20	-----	12	10	-----	14	-----	389	-----	50	19	-----
TOTAL	737	530	402	325	283	416	598	6,018	9,288	2,879	952	465
MEAN	23.8	17.7	13.0	10.5	10.1	13.4	19.9	194	310	92.9	30.7	15.5
MAX	29	20	14	11	11	20	35	475	429	173	58	18
MIN	18	16	12	10	10	11	12	39	179	50	19	13
AC-FT	1,460	1,050	797	645	561	825	1,190	11,940	18,420	5,710	1,890	922

WTR YR 1974 TOTAL 22,893 MEAN 62.7 MAX 475 MIN 10 AC-FT 45,410

NOTE.--No gage-height record Nov. 1 to Mar. 2.

BEAR RIVER BASIN

129

10010500 Hilliard-East Fork Canal near State line, near Evanston, Wyo.

LOCATION.--Lat 40°54'49", long 110°49'25", in NW¼ sec.16, T.2 N., R.10 E., Summit County, Utah, Wasatch National Forest, on left bank 300 ft (91 m) downstream from road bridge, 0.8 mi (1.3 km) downstream from head, and 32 mi (51 km) south of Evanston.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 8,500 ft (2,590 m) from topographic map.

AVERAGE DISCHARGE.--32 years (1942-74), 5.01 ft³/s (0.142 m³/s), 3,630 acre-ft/yr (4.48 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 44 ft³/s (1.25 m³/s) July 3-5, 8, 1963; no flow during winter and at other times each year except 1958.

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres (10.5 km²) in Hilliard Flat area in Wyoming.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10								0	26	.23	.23
2	10								0	21	1.6	.23
3	9.8								0	21	2.5	.23
4	9.5								0	17	4.3	8.0
5	9.2								0	15	4.3	13
6	9.0								0	19	4.1	15
7	8.5								0	18	4.1	15
8	9.0								0	18	4.1	15
9	10								0	22	4.1	15
10	9.8								0	24	4.1	12
11	9.2								0	24	3.4	.15
12	8.7								0	22	1.1	.04
13	10								0	20	.23	0
14	11								0	20	.23	0
15	9.8								0	26	.23	0
16	9.0								0	32	.23	0
17	8.5								0	31	.23	0
18	8.2								0	30	.23	0
19	8.0								0	30	.23	0
20	7.6								0	30	.23	0
21	7.3								0	28	.23	0
22	7.1								0	26	.23	0
23	7.3								0	27	.23	0
24	1.3								0	26	.23	0
25	0								3.6	24	.23	0
26	0								19	22	.23	0
27	0								21	23	.23	0
28	0								21	23	.23	0
29	0								28	13	.23	0
30	0								32	.12	.23	0
31	0	-----							-----	.04	.23	-----
TOTAL	207.8	0	0	0	0	0	0	0	124.6	678.16	42.30	93.88
MEAN	6.70	0	0	0	0	0	0	0	4.15	21.9	1.36	3.13
MAX	11	0	0	0	0	0	0	0	32	32	4.3	15
MIN	0	0	0	0	0	0	0	0	0	.04	.23	0
AC-FT	412	0	0	0	0	0	0	0	247	1,350	84	186
CAL YR 1973	TOTAL 1,102.03		MEAN 3.02	MAX 37	MIN 0	AC-FT 2,190						
WTR YR 1974	TOTAL 1,146.74		MEAN 3.14	MAX 32	MIN 0	AC-FT 2,270						

BEAR RIVER BASIN

10011200 West Fork Bear River at Whitney Dam, near Oakley, Utah

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec. 9, T.1 N., R.9 E., Summit County, Wasatch National Forest, on left bank, 1,380 ft (421 m) below Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi² (17.59 km²), revised.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m) from topographic map.

AVERAGE DISCHARGE.--8 years (1967-74), 8.88 ft³/s (0.251 m³/s), 6,430 acre-ft/yr (7.93 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) July 21 (gage height, 2.76 ft or 0.841 m); minimum daily, 0.52 ft³/s (0.015 m³/s) Aug. 14.
Period of record: Maximum discharge, 145 ft³/s (4.11 m³/s) June 13, 1965 (gage height, 1.95 ft or 0.594 m); maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

REMARKS.--Records good. Flow regulated by Whitney Reservoir. Usable capacity between sill of outlet and spillway crest, 4,200 acre-ft (5.18 hm³). Dead storage 500 acre-ft (617,000 m³). Construction of dam began Aug. 1, 1965 and completed October 1966. Storage began July 24, 1966, and reached sill of outlet Nov. 20, 1966. No diversion above station.

REVISIONS.--WRD Utah 1973: Drainage area.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	4.2	3.8	3.8	2.6	2.4	2.7	4.8	18	.65	41
2	12	9.8	4.1	3.8	3.8	2.5	2.4	2.7	48	17	.63	41
3	12	9.8	3.9	3.8	3.8	2.4	2.4	2.7	88	16	.63	40
4	12	9.7	3.9	3.8	3.8	2.4	2.4	2.8	87	15	.63	65
5	12	9.6	4.0	3.8	3.8	2.5	2.4	2.8	87	15	.63	76
6	12	9.6	4.0	3.8	3.8	2.5	2.4	2.9	84	14	.62	73
7	27	9.6	4.0	3.8	3.8	2.5	2.4	2.9	71	13	.60	70
8	35	9.6	4.0	3.8	3.8	2.5	2.4	3.0	63	12	.59	68
9	38	9.6	4.0	3.8	3.8	2.5	2.4	3.0	51	11	.57	67
10	42	9.6	4.0	3.8	3.8	2.5	2.4	3.0	47	10	.57	64
11	42	9.6	4.1	3.8	3.8	2.5	2.4	3.0	52	9.0	.57	59
12	42	6.5	3.9	3.8	3.8	2.5	2.4	3.1	63	12	.57	54
13	38	4.5	3.9	3.8	3.8	2.2	2.4	3.1	69	7.0	.57	19
14	35	4.4	3.9	3.8	3.8	2.1	2.4	3.1	71	6.0	.52	1.8
15	35	4.3	3.9	3.8	3.8	2.1	2.4	3.1	77	54	.54	1.7
16	34	4.3	3.9	3.8	3.0	2.1	2.5	3.2	75	61	.54	1.7
17	34	4.3	3.8	3.8	2.6	2.1	2.5	3.2	69	61	.54	1.8
18	34	4.2	3.7	3.8	2.6	2.2	2.5	3.3	65	61	.54	1.7
19	33	4.3	3.8	3.8	2.6	2.2	2.5	3.3	67	60	12	1.7
20	17	4.3	3.8	3.8	2.6	2.4	2.5	3.4	67	60	39	1.8
21	11	4.3	3.7	3.8	2.6	2.6	2.5	3.4	59	67	39	1.8
22	11	4.2	3.7	3.8	2.6	2.6	2.6	3.4	50	100	39	1.8
23	11	4.2	3.7	3.8	2.6	2.6	2.6	3.4	38	98	39	1.8
24	11	4.2	3.7	3.8	2.6	2.5	2.6	3.4	27	77	39	1.8
25	11	4.2	3.7	3.8	2.6	2.5	2.6	3.5	27	86	38	1.7
26	11	4.2	3.8	3.8	2.6	2.4	2.6	3.6	26	85	39	1.7
27	11	4.2	3.8	3.8	2.6	2.3	2.6	3.7	24	83	43	1.8
28	11	4.2	3.8	3.8	2.6	2.3	2.6	3.7	21	82	43	1.8
29	11	4.2	3.8	3.8	-----	2.3	2.6	3.5	20	36	43	1.8
30	11	4.2	3.8	3.8	-----	2.3	2.7	3.3	19	.75	42	1.8
31	10	-----	3.8	3.8	-----	2.3	-----	3.4	-----	.67	42	-----
TOTAL	678	189.5	120.1	117.8	91.2	74.0	74.5	98.6	1,616.8	1,247.42	507.51	767.0
MEAN	21.9	6.32	3.87	3.80	3.26	2.39	2.48	3.18	53.9	40.2	16.4	25.6
MAX	42	9.8	4.2	3.8	3.8	2.6	2.7	3.7	88	100	43	76
MIN	10	4.2	3.7	3.8	2.6	2.1	2.4	2.7	4.8	.67	.52	1.7
AC-FT	1,340	376	238	234	181	147	148	196	3,210	2,470	1,010	1,520
CAL YR 1973	TOTAL	2,242.68	MEAN	6.14	MAX	74	MIN	.62	AC-FT	4,450		
WTR YR 1974	TOTAL	5,582.43	MEAN	15.3	MAX	100	MIN	.52	AC-FT	11,070		

BEAR RIVER BASIN

131

10011400 West Fork Bear River below Deer Creek, near Evanston, Wyo.

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼ SW¼ sec. 6, T.2 N., R.10 E., Summit County, Utah, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi² (135.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 480 ft³/s (13.6 m³/s) May 9 (gage height, 3.83 ft or 1.167 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 18, Sept. 24-26.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir. Usable capacity between sill of outlet and spillway crest, 4,200 acre-ft (5.18 hm³). Dead storage 500 acre-ft (617,000 m³). Construction of dam began Aug. 1, 1965 and completed October 1966. Storage began July 24, 1966, and reached sill of outlet Nov. 20, 1966. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	24	18	16	15	15	15	72	276	81	21	44
2	24	24	18	16	15	15	15	94	290	77	21	45
3	24	24	18	16	15	14	15	94	309	73	21	44
4	24	24	18	16	15	14	16	111	305	65	18	67
5	24	24	18	16	15	14	16	154	323	59	16	86
6	24	24	18	16	15	15	16	199	300	54	16	82
7	31	24	18	16	15	15	17	258	256	50	15	79
8	42	24	18	16	15	15	16	318	235	47	15	75
9	46	24	18	16	15	15	14	379	207	45	15	71
10	50	24	18	16	15	16	16	372	195	42	14	67
11	50	24	18	17	15	17	16	331	204	40	14	64
12	50	23	18	19	15	16	15	359	223	38	13	61
13	50	20	18	19	15	14	18	329	241	35	13	52
14	46	20	18	19	15	14	20	293	253	34	12	16
15	45	20	18	19	15	14	22	311	257	38	12	13
16	43	20	17	18	14	16	18	310	247	84	11	12
17	42	20	17	17	14	19	19	314	239	84	11	12
18	42	20	17	16	14	18	20	335	223	86	10	11
19	42	20	17	16	14	15	21	316	210	80	17	11
20	35	20	17	18	14	15	20	243	208	81	42	11
21	25	20	17	16	14	15	20	199	195	82	45	11
22	25	20	17	16	14	15	20	197	175	127	45	11
23	25	20	17	16	14	15	27	208	160	126	45	11
24	26	20	17	16	14	15	36	234	140	105	44	10
25	25	20	17	15	14	15	52	287	140	113	44	10
26	25	20	17	15	14	15	56	317	130	109	44	10
27	24	20	17	15	14	15	46	347	115	109	49	11
28	24	20	17	15	14	15	44	355	105	107	47	12
29	26	20	17	15	-----	21	41	340	95	81	47	11
30	27	20	17	15	-----	15	50	304	88	22	46	11
31	25	-----	17	15	-----	15	-----	286	-----	20	45	-----
TOTAL	1,035	647	542	507	407	477	737	8,266	6,344	2,194	828	1,031
MEAN	33.4	21.6	17.5	16.4	14.5	15.4	24.6	267	211	70.8	26.7	34.4
MAX	50	24	18	19	15	21	56	379	323	127	49	86
MIN	24	20	17	15	14	14	14	72	88	20	10	10
AC=FT	2,050	1,280	1,080	1,010	807	946	1,460	16,400	12,580	4,350	1,640	2,040

WTR YR 1974 TOTAL 23,015 MEAN 63.1 MAX 379 MIN 10 AC=FT 45,650

BEAR RIVER BASIN

10011500 Bear River near Utah-Wyoming State line

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec. 30, T.3 N., R.10 E., Summit County, Utah, on left bank just downstream from West Fork, 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²), revised.

PERIOD OF RECORD.--July 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m) from river-profile map.

AVERAGE DISCHARGE.--32 years, 192 ft³/s (5.437 m³/s), 139,100 acre-ft/yr (172 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,140 ft³/s (60.6 m³/s) May 29 (gage height, 3.42 ft or 1.042 m); minimum daily, 45 ft³/s (1.27 m³/s) Sept. 25, 26.

Period of record: Maximum discharge, 2,980 ft³/s (84.4 m³/s) June 6, 1968 (gage height, 3.79 ft or 1.155 m); maximum gage height 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 16 ft /s (0.45 m³/s) Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir completed 1966. Usable capacity 4,200 acre-ft (5.18 hm³). Three diversions above station for irrigation of about 265 acres (107,000 m²) above and 2,600 acres (10.5 km²) below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	83	66	60	53	51	55	216	1,280	424	101	76
2	85	74	66	60	55	48	59	244	1,300	395	112	76
3	83	81	65	60	52	55	62	228	1,340	358	105	75
4	81	81	65	60	52	55	62	240	1,210	302	93	85
5	79	91	65	60	52	56	53	320	1,270	276	85	98
6	79	85	64	60	52	55	61	464	1,100	252	81	88
7	85	83	64	58	52	53	61	622	885	242	80	84
8	93	87	64	58	52	53	56	777	786	240	78	83
9	106	83	62	58	52	53	64	840	678	228	74	80
10	109	83	60	58	52	55	61	984	678	206	73	77
11	109	81	62	58	52	53	61	849	813	200	71	88
12	109	91	64	58	52	52	62	912	993	184	70	92
13	109	81	62	58	52	53	64	885	1,160	167	69	83
14	114	72	60	58	52	55	65	768	1,310	159	65	56
15	111	66	58	58	53	56	62	786	1,390	159	65	53
16	104	81	61	58	50	58	66	777	1,240	216	65	51
17	100	74	61	56	50	65	66	786	1,210	214	63	50
18	96	70	61	62	50	66	78	858	1,120	202	61	48
19	93	70	61	56	50	61	83	858	1,100	202	62	48
20	87	64	58	55	50	62	76	702	1,080	219	81	47
21	76	72	61	56	50	50	76	569	1,010	203	83	46
22	74	59	61	58	50	59	78	527	921	211	84	46
23	74	65	59	58	50	65	96	548	858	212	83	46
24	79	65	61	58	50	52	125	622	804	191	81	46
25	83	65	60	58	50	61	168	813	759	188	81	45
26	78	65	60	59	50	62	208	1,010	718	176	80	45
27	74	65	60	58	51	62	179	1,340	641	167	82	46
28	78	65	60	55	51	61	152	1,610	577	164	80	48
29	79	65	60	56	-----	59	149	1,710	524	142	79	49
30	78	65	60	64	-----	62	165	1,450	472	106	77	47
31	81	-----	60	58	-----	61	-----	1,290	-----	104	76	-----
TOTAL	2,777	2,232	1,911	1,807	1,437	1,769	2,673	24,605	29,227	6,709	2,440	1,902
MEAN	89.6	74.4	61.6	58.3	51.3	57.1	89.1	794	974	216	78.7	63.4
MAX	114	91	66	64	55	66	208	1,710	1,390	424	112	98
MIN	74	59	58	55	50	48	53	216	472	104	61	45
AC-FT	5,510	4,430	3,790	3,580	2,850	3,510	5,300	48,800	57,970	13,310	4,840	3,770

CAL YR 1973 TOTAL 70,664 MEAN 194 MAX 1,520 MIN 41 AC-FT 140,200
WTR YR 1974 TOTAL 79,489 MEAN 218 MAX 1,710 MIN 45 AC-FT 157,700

PEAK DISCHARGE (BASE, 1,100 cfs).--May 29 (0100) 2,140 cfs (3.42 ft); June 15 (0200) 1,840 cfs (3.20 ft).

BEAR RIVER BASIN

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10015700 Sulphur Creek above reservoir, near Evanston, Wyo.

LOCATION.--Lat 41°08'38", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2 mi (3.2 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

DRAINAGE AREA.--64.2 mi² (166.3 km²), revised.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,188 m) from topographic map.

AVERAGE DISCHARGE.--17 years, 16.6 ft³/s (0.470 m³/s), 12,030 acre-ft/yr (14.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 756 ft³/s (21.4 m³/s) Apr. 25 (gage height, 5.57 ft or 1.698 m); minimum, 0.22 ft³/s (0.006 m³/s) Sept. 2.
Period of record: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Apr. 21, 1965 (gage height, 6.02 ft or 1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	11	9.0	4.0	3.0	11	63	191	77	6.1	1.7	.24
2	4.5	12	8.0	3.5	3.0	12	40	232	66	5.9	1.1	.28
3	4.3	12	8.0	3.5	3.0	8.0	40	190	64	7.2	1.2	.33
4	4.3	13	8.0	3.5	3.0	6.5	44	149	49	6.4	1.1	.33
5	4.3	9.9	8.0	3.5	3.0	8.0	43	223	62	5.6	.92	.36
6	4.3	10	8.0	3.5	3.0	10	39	257	101	4.5	.84	.36
7	4.3	19	8.0	3.5	3.0	9.0	33	288	72	4.0	.76	.33
8	4.3	20	8.0	3.5	3.0	8.0	32	323	94	3.8	.76	.33
9	4.9	14	8.0	3.5	3.0	8.0	43	409	77	3.2	.68	.33
10	6.9	11	8.0	3.5	3.0	10	27	402	53	3.0	.60	.30
11	7.7	10	8.0	3.0	3.5	13	30	196	45	2.7	.57	.30
12	7.7	11	8.0	3.0	4.0	17	31	235	48	2.5	.51	.33
13	7.7	14	8.0	3.0	4.0	22	29	241	45	2.0	.45	.39
14	6.7	14	8.0	3.0	4.0	27	34	155	36	1.6	.42	.39
15	6.4	12	8.0	3.0	4.0	35	35	154	36	1.9	.42	.39
16	6.4	13	7.0	3.0	4.0	45	34	176	45	1.9	.39	.39
17	5.9	14	7.0	3.0	4.0	60	44	142	48	1.9	.33	.39
18	5.9	14	7.0	3.0	4.0	65	67	268	41	2.4	.30	.39
19	5.9	14	7.0	3.0	4.0	45	82	207	33	1.7	.28	.39
20	5.9	14	7.0	3.0	4.0	35	69	137	29	1.6	.24	.39
21	5.6	12	6.0	3.0	4.0	25	67	92	23	2.0	.24	.39
22	5.6	11	6.0	3.0	4.0	35	69	85	19	1.6	.26	.39
23	5.6	10	6.0	3.0	4.0	50	124	86	15	2.0	.26	.39
24	6.4	9.0	6.0	3.0	4.0	40	205	100	12	2.4	.26	.36
25	7.2	8.0	6.0	3.0	6.0	55	338	137	11	2.7	.24	.33
26	6.9	7.0	5.0	3.0	8.0	76	348	142	9.2	1.7	.24	.33
27	6.1	7.0	5.0	3.0	7.0	77	192	178	8.6	.92	.24	.33
28	6.4	7.0	5.0	3.0	8.5	79	122	180	8.9	1.4	.24	.36
29	6.7	8.0	5.0	3.0	-----	57	111	137	8.0	2.0	.26	.36
30	7.4	9.0	5.0	3.0	-----	77	134	111	7.2	3.2	.26	.36
31	8.6	-----	5.0	3.0	-----	100	-----	81	-----	3.2	.26	-----
TOTAL	185.5	349.9	216.0	98.5	115.0	1,125.5	2,569	5,904	1,242.9	93.02	16.33	10.54
MEAN	5.98	11.7	6.97	3.18	4.11	36.3	85.6	190	41.4	3.00	.53	.35
MAX	8.6	20	9.0	4.0	8.5	100	348	409	101	7.2	1.7	.39
MIN	4.3	7.0	5.0	3.0	3.0	6.5	27	81	7.2	.92	.24	.24
AC-FT	368	694	428	195	228	2,230	5,100	11,710	2,470	185	32	21
CAL YR 1973	TOTAL	10,262.50	MEAN	28.1	MAX	260	MIN	1.3	AC-FT	20,360		
WTR YR 1974	TOTAL	11,926.19	MEAN	32.7	MAX	409	MIN	.24	AC-FT	23,660		

BEAR RIVER BASIN

10015900 Sulphur Creek below reservoir, near Evanston, Wyo.

LOCATION.--Lat 41°09'21", long 110°50'05", in SE½SE½ sec.28, T.14 N., R.119 W., Uinta County, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi² (179.2 km²), revised.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m) from topographic map.

AVERAGE DISCHARGE.--6 years (1958-64), 11.2 ft³/s (0.317 m³/s) 8,110 acre-ft/yr (10.0 hm³/yr). 10 years (1964-74), 28.0 ft³/s (0.793 m³/s) 20,290 acre ft/yr (25.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 425 ft³/s (12.0 m³/s) May 10 (gage height, 3.71 ft or 1.131 m); no flow Oct. 1-23, Sept. 29,30.
1958-64: Maximum discharge, 164 ft³/s (4.64 m³/s) June 29, 1959 (gage height, 3.67 ft or 1.119 m); no flow at times each year.
1964-74: Maximum discharge, 425 ft³/s (12.0 m³/s) May 10, 1974 (gage height, 3.71 ft or 1.131 m); no flow at times each year except 1972.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir 400 ft (122 m) upstream (capacity, 7,100 acre-ft or 8.75 hm³). Enlargement completed November 1964. Prior to enlargement (capacity, 4,600 acre-ft or 5.67 hm³). Records prior to 1965 do not include flow over spillway of the dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	62	8.1	8.2	8.4	14	16	225	106	7.5	27	42
2	0	61	8.1	8.1	8.4	15	16	225	105	7.6	27	41
3	0	61	8.1	8.0	8.5	14	16	225	104	8.6	27	37
4	0	60	8.0	7.8	8.8	15	16	224	104	9.0	27	31
5	0	60	7.6	7.8	8.7	15	16	224	85	9.5	27	37
6	0	60	7.7	7.8	8.7	14	16	224	41	9.6	27	36
7	0	59	7.8	7.8	8.5	14	16	227	41	9.3	27	29
8	0	60	7.8	7.7	8.5	14	16	231	41	9.1	32	29
9	0	59	7.8	7.7	8.5	14	17	270	41	16	36	29
10	0	59	7.8	7.7	8.5	14	17	392	41	25	35	25
11	0	59	7.9	7.6	8.5	14	17	319	41	25	35	17
12	0	58	8.1	7.6	8.5	14	41	272	42	36	40	16
13	0	58	8.1	7.6	8.5	14	94	265	43	45	42	16
14	0	58	8.1	7.7	8.5	14	93	240	43	45	42	15
15	0	57	8.1	7.8	8.5	14	92	230	44	45	42	9.7
16	0	57	8.1	7.8	8.3	14	91	228	46	39	42	9.7
17	0	56	8.2	7.8	8.5	14	92	227	49	37	42	9.6
18	0	56	8.3	7.8	8.6	14	91	227	53	36	41	9.6
19	0	55	8.3	7.8	8.6	14	91	227	55	36	41	30
20	0	55	8.3	7.8	8.6	15	93	226	54	29	46	74
21	0	54	8.1	7.9	8.5	14	92	224	50	24	67	52
22	0	54	8.3	8.0	8.6	15	93	221	47	24	76	9.9
23	0	53	8.3	8.1	8.5	15	156	218	46	24	63	9.9
24	65	46	8.3	8.1	8.8	15	220	114	45	17	56	9.9
25	65	8.3	8.3	8.1	8.8	15	251	34	44	17	56	9.9
26	64	8.3	8.3	8.2	11	15	383	35	25	16	55	9.9
27	64	8.3	8.3	8.3	14	15	331	35	12	12	55	9.9
28	63	8.2	8.3	8.5	14	15	256	36	12	12	54	4.3
29	63	8.1	8.3	8.5	-----	15	231	51	12	12	54	0
30	63	8.1	8.3	8.5	-----	15	227	105	12	13	52	0
31	62	-----	8.3	8.5	-----	15	-----	106	-----	22	42	-----
TOTAL	509	1,426.3	251.4	246.6	252.8	448	3,197	6,107	1,484	677.2	1,335	658.3
MEAN	16.4	47.5	8.11	7.95	9.03	14.5	107	197	49.5	21.8	43.1	21.9
MAX	65	62	8.3	8.5	14	15	383	392	106	45	76	74
MIN	0	8.1	7.6	7.6	8.3	14	16	34	12	7.5	27	0
AC-FT	1,010	2,830	499	489	501	889	6,340	12,110	2,940	1,340	2,650	1,310

CAL YR 1973 TOTAL 12,118.31 MEAN 33.2 MAX 218 MIN 0 AC-FT 24,040
WTR YR 1974 TOTAL 16,592.60 MEAN 45.5 MAX 392 MIN 0 AC-FT 32,910

BEAR RIVER BASIN

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10017000 Yellow Creek near Evanston, Wyo.

LOCATION.--Lat 41°08'39", long 111°03'08", in NW¼NW¼NW¼ sec.28, T.5 N., R.8 E., Summit County, Utah, on left bank 600 ft (183 m) downstream from Sage Creek, 1.5 mi (2.4 km) upstream from Coyote Creek, 1.8 mi (2.9 km) downstream from Barker Dam, and 9.8 mi (15.8 km) southwest of Evanston.

DRAINAGE AREA.--79.2 mi² (205.1 km²), revised.

PERIOD OF RECORD.--October 1944 to September 1945, October 1949 to current year. Records for February 1943 to September 1944 at site 1.2 mi (1.9 km) downstream not equivalent, but would be equivalent by adding flow of Wright No. 2 and Cook Canals, in reports on Bear River Hydrometric Data, 1944 (Geological Survey open-file report).

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft (2,109 m) from river-profile map. Oct. 1, 1944 to Sept. 30, 1945, at site 500 ft (152 m) upstream, at different datums.

AVERAGE DISCHARGE.--26 years (1944-45, 1949-74), 10.8 ft³/s (0.306 m³/s), 7,820 acre-ft/yr (9.64 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 400 ft³/s (11.3 m³/s) May 10 (gage height, 6.73 ft or 2.051 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Aug. 15-26, Sept. 23-30.

Period of record: Maximum discharge, 477 ft³/s (13.5 m³/s) Apr. 28, 1952 (gage height, 7.04 ft or 2.146 m); maximum gage height, 7.05 ft (2.149 m) Mar. 12, 1972 (backwater from ice); no flow at times in most years.

REMARKS.--Records good except those for winter months, which are fair. One small diversion for irrigation of hay meadows above station. Flow regulated by Barker Reservoir (capacity, 162 acre-ft or 200,000 m³) completed in fall of 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.4	5.4	3.5	2.5	6.5	24	125	90	6.3	.98	.33
2	5.2	6.6	5.0	3.0	2.5	6.0	21	170	80	5.8	.98	.33
3	4.9	7.0	4.5	3.0	2.5	5.0	19	200	75	5.9	.80	.33
4	4.5	7.0	4.4	3.0	2.5	4.1	18	173	60	6.1	.71	.33
5	3.9	7.0	4.4	3.0	2.5	4.4	17	182	59	5.8	.67	.33
6	3.4	6.2	4.5	3.0	2.5	6.5	20	205	63	4.8	.67	.33
7	3.6	6.6	4.5	3.0	2.5	5.6	18	216	63	3.9	.63	.33
8	3.2	6.6	4.5	3.0	2.5	4.9	17	231	60	4.2	.50	.33
9	3.7	6.2	4.5	3.0	2.5	4.4	20	267	57	3.6	.41	.33
10	4.1	5.2	4.5	3.0	2.5	5.6	25	293	53	3.6	.37	.33
11	4.6	4.8	5.0	3.0	3.0	6.5	23	207	45	3.9	.37	.33
12	4.9	4.9	5.2	3.0	3.0	6.0	26	183	42	3.7	.33	.33
13	4.8	5.2	4.5	3.0	3.0	6.5	22	185	40	3.3	.33	.33
14	4.5	5.0	4.4	3.0	3.0	10	22	171	39	2.9	.33	.33
15	4.4	5.0	4.4	3.0	3.5	15	22	139	35	3.4	.30	.33
16	3.9	4.9	4.2	3.0	3.5	20	24	138	36	4.5	.30	.33
17	3.8	4.8	4.4	3.0	3.5	21	28	135	34	4.8	.30	.33
18	4.2	5.0	3.9	3.0	3.5	18	35	134	33	5.6	.30	.33
19	4.4	5.0	4.0	3.0	3.5	16	39	130	32	5.6	.30	.33
20	4.0	5.0	4.0	3.0	3.5	14	42	140	30	5.3	.30	.33
21	5.7	4.5	4.1	2.8	3.5	15	39	120	25	4.9	.30	.33
22	10	4.3	3.8	2.8	3.5	17	41	83	20	4.4	.30	.33
23	11	4.3	3.6	2.7	3.5	19	47	83	19	4.0	.30	.30
24	6.0	4.5	3.4	2.6	3.5	19	87	100	18	3.7	.30	.30
25	5.8	4.5	3.7	2.6	3.5	20	139	121	17	3.1	.30	.30
26	5.6	4.5	4.0	2.6	5.6	22	174	114	15	2.5	.33	.30
27	5.2	4.5	4.1	2.5	5.0	25	175	108	12	1.9	.33	.30
28	5.2	4.5	4.2	3.2	6.5	27	147	112	10	1.5	.33	.30
29	5.2	4.7	3.9	2.5	-----	23	111	114	8.9	1.3	.33	.30
30	5.4	5.0	3.5	2.5	-----	26	85	112	7.7	1.0	.33	.30
31	5.8	-----	3.5	2.5	-----	27	-----	109	-----	1.0	.33	-----
TOTAL	156.5	159.7	132.0	89.8	92.6	426.0	1,527	4,800	1,178.6	122.3	13.36	9.66
MEAN	5.05	5.32	4.26	2.90	3.31	13.7	50.9	155	39.3	3.95	.43	.32
MAX	11	7.0	5.4	3.5	6.5	27	175	293	90	6.3	.98	.33
MIN	3.2	4.3	3.4	2.5	2.5	4.1	17	83	7.7	1.0	.30	.30
AC-FT	310	317	262	178	184	845	3,030	9,520	2,340	243	26	19

CAL YR 1973 TOTAL 6,272.00 MEAN 17.2 MAX 183 MIN 2.2 AC-FT 12,440
WTR YR 1974 TOTAL 8,707.52 MEAN 23.9 MAX 293 MIN .30 AC-FT 17,270

BEAR RIVER BASIN

10019500 Chapman Canal at State line, near Evanston, Wyo.

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944 Irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m) from river-profile map. Prior to Oct. 11, 1946, nonrecording gage and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft (6 m) downstream at same datum.

AVERAGE DISCHARGE.--30 years (1944-74), 19.9 ft³/s (0.564 m³/s) 14,420 acre-ft/yr (17.8 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 143 ft³/s (4.05 m³/s) June 24, 1970; no flow at times each year.

REMARKS.--Records fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Salaratus basin, Utah.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.85	20	70	39	30	7.8
2						0	.94	22	67	34	32	7.5
3						0	1.0	24	66	33	34	7.4
4						0	1.0	19	66	28	40	7.1
5						0	1.1	22	68	23	34	7.6
6						0	1.2	25	73	20	25	7.6
7						0	1.3	28	60	19	25	8.4
8						0	1.2	39	63	17	23	11
9						.12	.94	95	57	25	23	11
10						.36	1.0	122	51	26	21	17
11						.49	1.2	97	73	26	16	3.3
12						.58	1.4	89	71	18	13	.32
13						.67	1.4	86	81	19	11	12
14						.76	1.8	66	88	18	9.4	15
15						.85	11	43	89	16	8.6	14
16						.94	39	76	109	19	9.4	13
17						1.0	41	72	113	28	8.8	18
18						1.1	44	74	110	52	6.5	17
19						1.1	45	88	91	58	3.1	15
20						1.1	48	77	79	66	4.2	13
21						1.2	44	60	73	71	4.5	11
22						1.2	46	77	79	66	5.3	11
23						1.1	48	74	76	87	6.0	9.1
24						1.1	48	72	69	83	12	7.6
25						1.0	53	66	81	76	14	7.4
26						1.0	55	66	75	64	13	4.9
27						.94	38	69	66	51	13	7.1
28						.94	29	75	60	42	12	8.4
29					-----	.94	22	75	52	46	12	8.8
30					-----	.94	21	77	47	38	11	7.8
31		-----			-----	.85	-----	74	-----	28	10	-----
TOTAL	0	0	0	0	0	20.28	648.33	1,969	2,223	1,236	489.8	296.22
MEAN	0	0	0	0	0	.65	21.6	63.5	74.1	39.9	15.8	9.87
MAX	0	0	0	0	0	1.2	55	122	113	87	40	18
MIN	0	0	0	0	0	0	.85	19	47	16	3.1	.32
AC-FT	0	0	0	0	0	40	1,290	3,910	4,410	2,450	972	588
CAL YR 1973	TOTAL	8,995.50	MEAN	24.6	MAX	134	MIN	0	AC-FT	17,840		
WTR YR 1974	TOTAL	6,882.63	MEAN	18.9	MAX	122	MIN	0	AC-FT	13,650		

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LOCATION.--Lat 41°26'04", long 111°01'01", in NW₁NW₄ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

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

AVERAGE DISCHARGE.--13 years, 256 ft³/s (7.250 m³/s) 185,500 acre-ft/yr (229 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) May 11 (gage height, 5.38 ft or 1.640 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Aug. 18, 19.

Period of record: Maximum discharge, 3,340 ft³/s (94.6 m³/s) June 13, 14, 1965 (gage height, 5.89 ft or 1.795 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 24, 1964.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km²) above station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	214	170	110	110	130	326	894	1,670	211	9.8	12
2	123	222	160	100	110	130	303	1,070	1,540	202	8.9	13
3	118	202	150	100	110	130	277	1,140	1,520	222	9.3	18
4	114	208	140	100	110	125	273	1,070	1,460	205	9.3	21
5	112	211	135	100	110	125	269	1,140	1,340	175	9.8	18
6	112	211	130	100	105	125	273	1,270	1,550	144	9.3	21
7	107	228	130	100	105	125	269	1,420	1,280	125	12	21
8	112	254	130	100	105	125	254	1,560	1,080	99	10	13
9	132	239	130	100	105	140	273	1,750	942	71	10	10
10	158	218	130	100	105	150	335	1,910	763	60	12	10
11	166	208	130	110	105	170	298	2,060	674	43	13	25
12	159	205	130	110	105	200	335	1,970	781	32	12	27
13	169	222	130	110	105	240	345	1,940	972	33	12	19
14	166	225	130	110	105	280	375	1,920	1,120	33	13	14
15	166	196	130	110	105	330	380	1,710	1,240	33	12	15
16	164	187	130	110	105	400	375	1,610	1,300	36	12	13
17	158	218	130	110	105	460	404	1,610	1,240	48	8.4	11
18	150	208	130	110	105	480	494	1,560	1,200	218	6.6	10
19	140	199	130	110	105	453	536	1,660	1,130	199	6.6	11
20	140	196	130	110	105	392	590	1,700	1,060	164	7.0	11
21	132	196	120	110	105	335	512	1,390	996	172	7.0	13
22	118	187	120	110	105	298	566	1,160	870	137	9.3	15
23	114	180	120	110	105	281	632	1,040	732	99	31	15
24	155	160	120	110	105	242	850	1,030	644	72	38	15
25	181	150	120	110	105	239	1,120	918	572	62	16	13
26	187	150	120	110	105	290	1,440	1,040	536	40	12	14
27	190	150	120	110	110	321	1,400	1,220	447	32	11	13
28	181	160	120	110	120	365	1,090	1,530	360	26	11	9.8
29	187	170	120	110	-----	321	870	1,780	285	18	10	9.8
30	196	170	120	110	-----	326	812	1,880	236	13	12	9.8
31	190	-----	120	110	-----	380	-----	1,860	-----	11	13	-----
TOTAL	4,639	5,944	4,025	3,320	2,985	8,108	16,276	45,812	29,540	3,035	373.3	440.4
MEAN	150	198	130	107	107	262	543	1,478	985	97.9	12.0	14.7
MAX	196	254	170	110	120	480	1,440	2,060	1,670	222	38	27
MIN	107	150	120	100	105	125	254	894	236	11	6.6	9.8
AC-FT	9,200	11,790	7,980	6,590	5,920	16,080	32,280	90,870	58,590	6,020	740	874
CAL YR 1973	TOTAL	103,082.3	MEAN	282	MAX	1,970	MIN	9.3	AC-FT	20		

BEAR RIVER BASIN

10020200 Woodruff Narrows Reservoir near Woodruff, Utah

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, Wyoming, in gate house on dam, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²), revised.

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

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m) from levels by Bureau of Reclamation.

EXTREMES.--Current year: Maximum contents, 33,080 acre-ft (40.8 hm³) May 11 (gage height, 38.3 ft or 11.67 m); minimum, 12,900 acre-ft (15.9 hm³) Sept. 29, 30.
Period of record: Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, 1974 (gage height, 38.3 ft or 11.67 m); minimum 6,480 acre-ft (7.99 hm³) Sept. 11-13, 1966.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity 28,000 acre-ft (34.5 hm³) below spillway crest, which includes 18,240 acre-ft (22.5 hm³) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm³) of irrigation holdover, 4,000 acre-ft (4.93 hm³) for winter release for fish propagation in Utah, and 1,500 acre-ft (1.85 hm³) of storage for fish propagation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

Capacity table (gage height, in feet, and total contents, in acre-feet)

21	10,760	30	20,180
22	11,600	32	23,040
24	13,360	34	25,800
26	15,570	36	29,000
28	17,770	38	32,520

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18,510	23,760	28,120	25,340	21,180	18,390	29,000	30,850	32,520	26,140	16,240	14,900
2	18,640	24,010	28,120	25,170	21,030	18,260	29,000	31,030	32,180	25,340	16,120	14,900
3	18,760	24,260	28,120	25,010	20,890	18,260	29,000	31,200	32,020	24,710	16,120	14,900
4	18,880	24,560	28,120	24,860	20,700	18,260	28,860	31,200	32,020	24,140	16,120	14,800
5	19,000	24,860	28,120	24,710	20,510	18,130	28,860	31,200	31,850	23,520	16,000	14,800
6	19,000	25,170	28,120	24,560	20,360	18,130	28,860	31,530	32,020	22,590	16,000	14,700
7	19,120	25,500	28,120	24,560	20,270	18,130	28,860	31,690	31,850	21,600	16,000	14,700
8	19,240	25,970	28,120	24,410	20,180	18,130	28,860	32,020	31,370	20,510	15,890	14,590
9	19,240	26,320	28,120	24,260	20,060	18,260	28,860	32,350	31,200	20,060	15,890	14,480
10	19,480	26,660	28,120	24,140	19,960	18,390	29,000	32,520	30,850	19,600	15,890	14,370
11	19,600	27,020	27,970	24,010	19,840	18,510	29,000	33,080	30,410	19,120	15,780	14,370
12	19,840	27,370	27,970	23,890	19,720	18,880	29,000	32,880	30,410	18,640	15,780	14,260
13	20,060	27,690	27,970	23,760	19,600	19,120	29,000	32,520	30,850	18,130	15,670	14,260
14	20,270	27,970	27,970	23,640	19,480	19,480	29,180	32,520	31,200	17,660	15,670	14,140
15	20,360	28,120	27,970	23,520	19,360	19,840	29,180	32,180	31,370	17,130	15,670	14,030
16	20,700	28,120	27,970	23,410	19,240	20,270	29,180	32,020	31,690	16,600	15,570	13,910
17	20,890	28,260	27,830	23,290	19,120	21,320	29,370	31,850	31,690	16,000	15,570	13,910
18	21,030	28,410	27,690	23,160	19,000	22,590	29,550	31,850	31,690	15,670	15,450	13,800
19	21,180	28,410	27,370	23,040	19,000	23,520	29,550	31,850	31,530	15,890	15,450	13,690
20	21,320	28,410	27,200	22,890	18,880	24,140	29,740	32,020	31,370	16,120	15,340	13,580
21	21,460	28,260	27,020	22,740	18,880	24,710	29,740	31,530	31,200	16,240	15,340	13,580
22	21,600	28,260	27,020	22,590	18,760	25,170	29,740	31,370	31,030	16,370	15,220	13,470
23	21,600	28,260	26,840	22,450	18,760	25,800	29,930	31,200	30,630	16,490	15,220	13,360
24	21,740	28,260	26,660	22,310	18,640	26,320	30,230	31,030	30,230	16,490	15,220	13,270
25	22,020	28,120	26,490	22,170	18,640	26,840	30,850	30,850	30,080	16,490	15,220	13,270
26	22,170	28,120	26,320	22,020	18,510	27,550	31,530	31,030	29,550	16,490	15,220	13,180
27	22,450	28,120	26,140	21,880	18,510	28,120	31,690	31,370	29,180	16,490	15,220	13,090
28	22,740	28,120	25,970	21,740	18,390	28,560	31,370	31,850	28,560	16,370	15,110	13,000
29	22,890	28,120	25,800	21,600	-----	28,710	31,030	32,180	27,830	16,370	15,110	12,900
30	23,160	28,120	25,650	21,460	-----	28,860	30,850	32,520	27,020	16,370	15,000	12,900
31	23,520	-----	25,500	21,320	-----	29,000	-----	32,700	-----	16,370	15,000	-----
MAX	23,520	28,410	28,120	25,340	21,180	29,000	31,690	33,080	32,520	26,140	16,240	14,900
MIN	18,510	23,760	25,500	21,320	18,390	18,130	28,860	30,850	27,020	15,670	15,000	12,900

(+) 32.4 35.4 33.8 30.8 28.5 36.0 37.0 38.1 34.7 26.7 25.5 23.5
(#) +5,130 +4,600 -2,620 -4,180 -2,930 +10,610 +1,850 +1,850 -5,680 -10,650 -1,370 -2,100

CAL YR 1973.....# +5,900
WTR YR 1974.....# -5,490

+ Gage height, in feet, at 2400 of last day of month.

Change in contents, in acre-feet.

BEAR RIVER BASIN

139

10020300 Bear River below reservoir, near Woodruff, Utah

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, on right bank, 1,100 ft (340 m) below Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.35 ft (1,950.217 m) above mean sea level (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

AVERAGE DISCHARGE.--13 years, 250 ft³/s (7.080 m³/s) 181,100 acre-ft/yr (223 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) May 12 (gage height, 7.35 ft or 2.240 m); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 9, 11-14, 16, 17, 19, Sept. 1, 2.
Period of record: Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 14, 1965 (gage height, 7.88 ft or 2.402 m); no flow July 4, 5, 1962.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200). Diversions for irrigation of about 43,500 acres (176 km²) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	66	108	123	140	152	350	852	1,780	502	29	26
2	59	66	109	123	141	153	320	898	1,650	590	29	26
3	60	66	109	124	141	153	310	996	1,560	586	29	27
4	61	67	110	124	142	154	300	1,060	1,520	580	29	27
5	61	67	110	125	142	154	282	1,060	1,420	574	29	34
6	61	67	110	125	142	152	271	1,120	1,440	570	28	46
7	61	67	110	126	143	154	271	1,240	1,460	564	27	46
8	61	67	110	127	144	159	262	1,380	1,270	557	27	45
9	61	67	110	127	145	160	257	1,520	1,110	550	26	45
10	61	67	111	128	146	160	303	1,760	969	544	27	45
11	61	67	111	128	147	161	325	2,150	811	537	26	45
12	61	67	112	129	148	161	329	2,210	764	526	26	46
13	62	67	113	129	148	162	334	2,040	835	200	26	46
14	62	80	114	130	149	162	351	1,970	964	70	26	46
15	62	96	115	130	149	163	369	1,840	1,100	70	27	46
16	62	98	115	131	150	163	375	1,680	1,240	70	26	46
17	63	98	115	131	150	164	387	1,630	1,270	70	26	45
18	63	99	116	131	150	165	421	1,560	1,280	66	27	45
19	63	100	117	132	150	166	468	1,560	1,220	71	26	45
20	63	101	117	132	150	168	524	1,640	1,160	70	27	45
21	63	102	118	132	151	170	546	1,540	1,090	70	27	45
22	64	103	118	133	151	170	534	1,260	1,020	70	27	45
23	64	104	119	134	151	171	557	1,090	902	70	27	45
24	64	104	119	135	151	171	639	1,050	786	70	27	45
25	64	105	120	135	151	172	809	1,010	693	65	27	44
26	64	105	120	136	151	172	1,030	987	752	31	27	44
27	64	105	120	137	151	172	1,290	1,090	667	30	27	44
28	64	106	121	138	152	173	1,240	1,280	568	29	27	44
29	65	108	121	139	-----	175	1,060	1,500	588	29	27	44
30	65	108	122	140	-----	200	906	1,720	490	29	27	39
31	65	-----	122	140	-----	380	-----	1,850	-----	29	27	-----
TOTAL	1,933	2,590	3,562	4,054	4,126	5,312	15,420	44,543	32,379	7,889	840	1,261
MEAN	62.4	86.3	115	131	147	171	514	1,437	1,079	254	27.1	42.0
MAX	65	108	122	140	152	380	1,290	2,210	1,780	590	29	46
MIN	59	66	108	123	140	152	257	852	490	29	26	26
AC-FT	3,830	5,140	7,070	8,040	8,180	10,540	30,590	88,350	64,220	15,650	1,670	2,500

CAL YR 1973 TOTAL 96,505 MEAN 264 MAX 1,750 MIN 39 AC-FT 191,400
WTR YR 1974 TOTAL 123,909 MEAN 339 MAX 2,210 MIN 26 AC-FT 245,800

NOTE.--No gage-height record Nov. 16 to Apr. 2.

BEAR RIVER BASIN

10020900 Woodruff Creek below reservoir, near Woodruff, Utah

LOCATION.--Lat 41°28'06", long 111°18'50", in SE¼SW¼ sec.31, T.9 N., R.6 E., Rich County, on left bank 0.2 mi (0.3 km) downstream from Woodruff Creek Dam, 4.8 mi (7.7 km) upstream from Birch Creek, and 8.5 mi (13.7 km) southwest of Woodruff.

DRAINAGE AREA.--50.0 mi² (129.5 km²), revised.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (2,063 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 278 ft³/s (7.87 m³/s) May 10 (gage height, 3.12 ft or 0.951 m); no flow Nov. 7 to Mar. 13.

Period of record: Maximum discharge, 327 ft³/s (9.26 m³/s) May 16, 1971 (gage height, 3.62 ft or 1.103 m). no flow during most of winter months each year except 1972, 1973.

REMARKS.--Records good. Flow regulated by Woodruff Creek reservoir (usable capacity, 3,650 acre-ft or 4.50 hm³). Dead storage, 450 acre-ft (555,000 m³). Dam is an earthfill structure with concrete spillway and outlet. Storage began Nov. 2, 1970 and first spilled Apr. 5, 1971.

REVISIONS (WATER YEARS).--WRD Utah 1972:1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	8.8				0	.48	57	126	52	30	10
2	5.1	8.8				0	.48	83	113	52	29	10
3	4.8	8.8				0	.54	110	101	52	28	10
4	4.8	8.8				0	.54	95	95	52	27	9.7
5	7.7	8.8				0	.54	119	95	52	26	9.7
6	10	3.7				0	.60	156	88	50	26	9.7
7	9.7	0				0	.69	192	74	50	25	9.7
8	9.7	0				0	.78	230	64	49	24	9.7
9	9.7	0				0	1.1	254	54	48	24	9.7
10	9.7	0				0	5.9	264	52	46	23	9.3
11	9.7	0				0	6.2	224	49	46	23	8.8
12	9.3	0				0	6.2	214	52	46	19	8.8
13	9.3	0				0	6.2	206	50	46	13	8.4
14	9.3	0				.06	6.2	180	45	45	13	8.0
15	9.3	0				.06	7.5	156	57	45	13	8.0
16	9.3	0				.06	16	148	90	45	11	8.0
17	9.3	0				.12	18	156	88	45	10	7.5
18	9.3	0				.18	21	185	88	42	7.1	7.5
19	9.3	0				.18	25	194	87	40	7.1	7.5
20	9.3	0				.18	25	165	87	40	7.1	7.5
21	9.3	0				.18	21	129	85	39	7.1	7.5
22	9.3	0				.24	23	102	85	37	7.1	7.5
23	9.3	0				.24	34	94	83	36	7.1	7.5
24	9.3	0				.24	46	131	70	36	7.1	7.5
25	9.3	0				.30	65	162	50	35	7.1	7.5
26	9.3	0				.30	85	191	50	35	7.1	7.5
27	9.3	0				.36	68	215	52	34	7.1	7.5
28	9.3	0				.36	54	234	52	33	7.5	7.5
29	9.3	0			-----	.36	45	218	52	33	9.7	7.5
30	9.3	0			-----	.42	44	178	52	32	10	7.5
31	8.8	-----			-----	.48	-----	144	-----	30	10	-----
TOTAL	271.8	47.7	0	0	0	4.32	634.95	5,186	2,186	1,323	472.2	252.5
MEAN	8.77	1.59	0	0	0	.14	21.2	167	72.9	42.7	15.2	8.42
MAX	10	8.8	0	0	0	.48	85	264	126	52	30	10
MIN	4.8	0	0	0	0	0	.48	57	45	30	7.1	7.5
AC-FT	539	95	0	0	0	8.5	1,260	10,290	4,340	2,620	937	501
CAL YR 1973	TOTAL	8,489.54	MEAN	23.3	MAX	248	MIN	0	AC-FT	16,840		
WTR YR 1974	TOTAL	10,378.47	MEAN	28.4	MAX	264	MIN	0	AC-FT	20,590		

BEAR RIVER BASIN

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10021000 Woodruff Creek near Woodruff, Utah

LOCATION.--Lat 41°28'55", long 111°15'58", in SE¼SE¼ sec.28, T.9 N., R.6 E., Rich County, on left bank 1.2 mi (1.9 km) upstream from Birch Creek and 6 mi (10 km) southwest of Woodruff.

DRAINAGE AREA.--56.8 mi² (147.1 km²), revised.

PERIOD OF RECORD.--October 1937 to September 1943, October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,010 m) from topographic map. Prior to June 21, 1939, nonrecording gage 0.5 mi (0.8 km) downstream at different datum. June 21, 1939 to Sept. 30, 1943, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--27 years (1937-43, 1949-70), 26.8 ft³/s (0.759 m³/s) 19,420 acre-ft/yr (23.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 287 ft³/s (8.13 m³/s) May 10 (gage height, 5.08 ft or 1.548 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Jan. 2-5.

Period of record: Maximum discharge, 528 ft³/s (15.0 m³/s) May 25, 1950 (gage height, 5.72 ft or 1.743 m); minimum, 1.1 ft³/s (0.031 m³/s) Mar. 9, 1963, Mar. 31, 1967.

REMARKS.--Records good except those for winter periods, which are fair. One small diversion above station for irrigation of about 20 acres (81,000 m²) of hay meadows above and below station. Flow regulated by Woodruff Creek reservoir (usable capacity, 3,650 acre-ft or 4.50 hm³). Dead storage, 450 acre-ft (555,000 m³). Dam is an earthfill structure with concrete spillway and outlet. Storage began Nov. 2, 1970 and first spilled Apr. 5, 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	20	3.0	2.6	3.1	3.0	4.8	65	132	58	40	13
2	8.4	19	3.0	2.5	3.1	3.9	4.8	97	119	58	40	14
3	8.4	19	3.0	2.5	3.0	3.5	4.6	124	111	58	38	14
4	8.1	19	3.0	2.5	3.0	3.3	4.6	111	103	57	38	13
5	13	19	2.8	2.5	3.0	3.5	4.4	125	103	57	37	13
6	21	14	2.8	2.6	3.0	3.6	4.4	162	95	57	35	13
7	21	3.6	2.8	2.6	3.0	3.9	4.4	193	80	56	35	13
8	22	3.3	2.8	2.6	3.0	3.9	4.4	229	71	55	35	14
9	22	3.1	2.8	2.6	3.0	3.9	4.4	260	60	54	33	14
10	21	3.1	3.0	3.0	3.0	4.1	8.1	278	58	53	32	14
11	21	3.1	3.0	3.0	3.0	3.9	9.9	234	58	52	31	13
12	21	3.1	3.0	3.0	3.0	4.1	10	219	58	51	29	14
13	21	3.1	3.0	2.7	3.0	4.1	9.9	213	58	50	21	15
14	21	3.1	3.0	2.6	3.0	4.1	9.9	193	54	51	20	13
15	21	3.0	3.0	2.6	3.0	4.6	9.9	169	62	51	20	14
16	21	3.0	3.1	2.6	3.0	5.1	20	159	102	51	21	14
17	21	3.1	3.1	2.6	3.0	5.1	27	163	102	50	19	15
18	21	3.1	3.1	2.8	3.0	5.1	32	188	101	49	8.8	14
19	21	3.0	3.1	3.0	3.0	4.6	36	199	101	48	8.4	13
20	20	3.0	3.1	3.0	3.0	4.4	38	176	101	48	8.4	14
21	20	3.0	3.1	3.0	3.0	4.6	31	142	99	47	8.8	13
22	20	3.0	3.1	3.0	3.0	4.6	30	117	97	47	9.1	13
23	20	3.0	3.0	3.0	3.0	4.4	41	106	97	47	9.1	13
24	20	3.0	3.0	3.0	3.0	4.1	56	126	87	46	8.8	13
25	20	3.0	3.0	3.0	3.0	4.1	80	157	58	45	9.1	14
26	20	3.0	3.1	3.1	3.0	4.4	107	184	58	45	8.8	13
27	20	3.0	3.1	3.1	3.0	4.4	89	211	58	44	9.1	12
28	19	3.0	3.1	3.1	3.0	4.6	68	237	56	43	9.4	13
29	19	3.0	3.3	3.0	-----	4.6	55	225	56	42	13	14
30	19	3.0	3.3	3.1	-----	4.6	53	184	58	42	13	14
31	19	-----	3.0	3.1	-----	4.6	-----	152	-----	42	13	-----
TOTAL	578.0	183.7	93.6	87.4	84.2	130.8	861.5	5,398	2,453	1,554	660.8	436
MEAN	18.6	6.12	3.02	2.82	3.01	4.22	28.7	174	81.8	50.1	21.3	13.5
MAX	22	20	3.3	3.1	3.1	5.1	107	278	132	58	40	15
MIN	8.1	3.0	2.8	2.5	3.0	3.0	4.4	65	54	42	8.4	12
AC-FT	1,150	364	186	173	167	259	1,710	10,710	4,870	3,080	1,310	805

CAL YR 1973 TOTAL 10,768.5 MEAN 29.5 MAX 278 MIN 2.6 AC-FT 21,360
WTR YR 1974 TOTAL 12,491.0 MEAN 34.2 MAX 278 MIN 2.5 AC-FT 24,780

BEAR RIVER BASIN

10026500 Bear River near Randolph, Utah

LOCATION.--Lat 41°48'02", long 111°04'20", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.7, T.12 N., R.8 E., Rich County, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi² (4,185 km²), revised.

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

GAGE.--Water-stage recorder. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum. Altitude of gage is 6,200 ft (1,889.8 m) from river-profile map.

AVERAGE DISCHARGE.--31 years, 205 ft³/s (5.806 m³/s) 148,500 acre-ft/yr (183 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,600 ft³/s (45.3 m³/s) May 14 (gage height, 6.91 ft or 2.106 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 10.

Period of record: Maximum discharge, 2,660 ft³/s (75.3 m³/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft³/s (0.045 m³/s) Nov. 12, 1961.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km²) above station. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	117	140	136	207	198	356	1,130	901	304	102	21
2	116	117	140	124	210	198	399	1,040	1,080	251	93	20
3	116	117	140	137	206	198	425	958	1,190	256	103	18
4	115	117	137	150	207	198	420	970	1,170	308	108	16
5	116	121	140	166	205	198	406	1,040	1,140	325	103	16
6	117	115	150	168	204	213	402	1,100	1,120	315	96	15
7	116	123	150	181	204	225	391	1,120	1,180	272	95	15
8	115	124	150	181	203	235	379	1,140	1,190	264	88	15
9	117	121	163	180	203	245	379	1,190	1,220	268	81	15
10	120	114	137	181	203	255	383	1,230	1,230	247	88	14
11	121	108	134	178	203	260	397	1,280	1,050	244	85	15
12	115	104	154	176	203	270	450	1,340	883	258	81	15
13	109	101	160	173	203	290	453	1,440	826	277	79	16
14	109	97	148	170	203	300	458	1,570	710	284	72	17
15	115	86	138	168	203	308	458	1,520	726	254	67	18
16	110	90	126	168	203	317	467	1,360	782	260	64	18
17	109	104	135	165	203	330	470	1,280	781	265	54	23
18	109	116	164	165	201	338	475	1,240	697	291	52	20
19	109	131	150	162	201	303	487	1,200	717	275	49	21
20	109	138	172	165	201	222	519	1,160	768	270	33	49
21	109	145	150	162	201	196	558	1,090	762	241	47	35
22	108	131	150	175	201	178	594	1,080	736	217	45	36
23	108	130	150	177	201	165	600	1,100	630	209	43	38
24	107	130	150	178	200	152	606	1,010	582	190	41	38
25	107	130	150	200	199	145	634	808	523	181	36	39
26	108	130	150	207	199	147	699	697	441	162	32	39
27	108	130	140	206	199	145	788	630	418	151	29	40
28	109	130	150	201	199	149	908	616	410	143	26	33
29	110	130	150	196	-----	151	1,000	616	372	133	25	33
30	110	130	150	205	-----	232	1,100	678	344	126	23	36
31	112	-----	150	205	-----	323	-----	755	-----	119	23	-----
TOTAL	3,476	3,577	4,568	5,406	5,675	7,084	16,061	33,388	24,579	7,360	1,963	744
MEAN	112	119	147	174	203	229	535	1,077	819	237	63.3	24.8
MAX	121	145	172	207	210	338	1,100	1,570	1,230	325	108	49
MIN	107	86	126	124	199	145	356	616	344	119	23	14
AC-FT	6,890	7,090	9,060	10,720	11,260	14,050	31,860	66,230	48,750	14,600	3,890	1,480
CAL YR 1973	TOTAL	97,969	MEAN	268	MAX	1,460	MIN	65	AC-FT	194,300		
WTR YR 1974	TOTAL	113,881	MEAN	312	MAX	1,570	MIN	14	AC-FT	225,900		

BEAR RIVER BASIN

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10028500 Bear River below Pixley Dam, near Cokeville, Wyo.

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R120 W., Lincoln County, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²), revised.

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m) from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

EXTREMES.--Current season: Maximum discharge, 1,330 ft³/s (37.7 m³/s) May 17 (gage height, 8.09 ft or 2.466 m); minimum daily, 28 ft³/s (0.79 m³/s) Sept. 9-13.
Period of record: Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft³/s (0.008 m³/s) Aug. 21, 1961.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1,060	648	272	166	36
2								1,070	713	267	163	37
3								1,040	772	258	142	35
4								994	921	255	150	33
5								998	969	265	153	31
6								1,040	977	245	138	31
7								1,070	980	235	118	30
8								1,090	977	290	116	29
9								1,080	1,030	303	117	28
10								1,020	1,160	306	116	28
11								1,040	1,230	383	120	28
12								1,070	1,160	351	117	28
13								1,090	948	342	116	28
14								1,110	861	351	105	29
15								1,140	783	349	102	29
16								1,170	772	331	95	30
17							514	1,260	742	336	92	33
18							520	1,250	675	349	87	38
19							537	1,130	687	370	81	36
20							553	1,120	580	366	78	38
21							605	1,100	696	346	73	60
22							637	1,070	699	315	68	52
23							651	1,060	677	300	64	54
24							675	1,050	594	269	62	56
25							680	1,000	386	258	60	54
26							718	872	383	246	55	53
27							783	764	425	225	51	52
28							861	687	379	195	45	53
29							934	632	314	194	41	47
30							988	537	269	185	41	46
31		-----			-----		-----	588	-----	175	36	-----
TOTAL								31,202	22,507	8,932	2,968	1,162
MEAN								1,007	750	288	95.7	38.7
MAX								1,260	1,230	383	166	60
MIN								537	269	175	36	28
AC-FT								61,890	44,640	17,720	5,890	2,330

THE SEASON AC-FT 66,771

10032000 Smiths Fork near Border, Wyo.

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobble Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi² (427 km²).

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (2,036 m) from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--32 years, 198 ft³/s (5.607 m³/s) 143,500 acre ft/yr (177 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) May 30 (gage height, 4.79 ft or 1.460 m); minimum, 32 ft³/s (0.91 m³/s) Mar. 21.
Period of record: Maximum discharge, 1,610 ft³/s (45.6 m³/s) June 18, 1971 (gage height, 5.61 ft or 1.710 m); minimum recorded, 32 ft³/s (0.91 m³/s) Mar. 21, 1974, result of freezeup.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (809,000 m²) above station.

REVISIONS (WATER YEARS).--WSP 1734: 1952 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	87	69	64	60	54	58	515	1,000	500	209	132
2	91	75	68	64	62	56	59	621	1,010	493	218	131
3	90	75	66	64	60	53	57	642	1,030	469	225	131
4	89	73	64	64	60	53	56	605	1,030	436	211	129
5	87	71	62	64	60	55	53	676	1,080	411	205	124
6	87	76	66	64	60	55	57	747	1,060	392	200	123
7	86	79	69	64	60	56	57	793	969	376	202	122
8	87	88	68	64	60	55	57	870	854	358	200	121
9	90	84	69	64	60	54	62	828	774	344	194	119
10	89	78	64	64	60	55	66	878	750	331	192	115
11	86	76	61	64	60	54	64	749	769	320	186	115
12	86	78	68	64	60	54	67	709	828	307	181	117
13	84	80	67	64	60	55	63	678	907	298	180	116
14	83	76	69	66	60	57	64	626	983	290	176	114
15	82	75	68	68	60	57	70	572	1,020	283	173	110
16	81	75	68	68	60	56	80	522	1,030	298	170	108
17	79	76	65	68	60	57	91	506	1,020	285	166	107
18	79	76	65	68	60	59	116	544	1,000	271	163	105
19	78	73	64	68	58	58	147	571	957	272	161	102
20	78	66	63	68	59	57	169	614	920	268	160	102
21	77	72	64	65	55	58	164	577	871	262	160	102
22	77	71	64	66	56	57	179	545	814	257	156	101
23	76	77	64	64	56	54	248	538	765	249	152	100
24	78	76	63	64	56	54	347	535	725	247	151	97
25	76	73	64	62	56	57	477	579	693	239	149	97
26	74	64	64	64	56	58	597	665	665	233	146	96
27	73	68	64	63	56	60	499	821	626	228	144	97
28	74	68	64	61	56	63	420	971	589	225	142	96
29	74	71	64	58	-----	61	397	1,110	553	221	140	94
30	72	68	64	59	-----	60	439	1,110	523	218	138	93
31	78	-----	64	59	-----	60	-----	1,040	-----	215	136	-----
TOTAL	2,533	2,245	2,026	1,991	1,646	1,752	5,280	21,757	25,815	9,596	5,386	3,316
MEAN	81.7	74.8	65.4	64.2	58.8	56.5	176	702	861	310	174	111
MAX	92	88	69	68	62	63	597	1,110	1,080	500	225	132
MIN	72	64	61	58	55	53	53	506	523	215	136	93
AC=FT	5,020	4,450	4,020	3,950	3,260	3,480	10,470	43,160	51,200	19,030	10,680	6,580
WAL YR 1973	TOTAL 55,872		MEAN 153	MAX 795	MIN 54	AC=FT 110,800						
CTR YR 1974	TOTAL 83,343		MEAN 228	MAX 1,110	MIN 53	AC=FT 165,300						

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LOCATION.--Lat 42°07'36", long 110°58'21", in SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

Period of record: Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 26, 1956 (gage height, 7.54 ft or 2.298 m); minimum, 63 ft³/s (1.78 m³/s) Nor. 2, 1961.

REMARKS.--Records good except those for winter periods, which are fair. Natural flow of stream affected by diversion for irrigation and return flow from irrigated areas.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	294	320	300	329	333	604	1,700	1,620	763	279	136
2	279	282	320	300	320	354	650	1,800	1,680	738	260	139
3	274	274	320	300	320	377	679	1,850	1,720	769	267	151
4	275	273	320	300	320	370	694	1,800	1,860	744	250	147
5	268	249	320	300	320	348	681	1,790	1,980	730	249	146
6	267	272	320	290	320	330	663	1,870	2,070	678	246	146
7	268	289	320	290	320	362	648	1,940	2,050	640	218	156
8	267	307	320	290	320	384	641	2,030	1,980	610	215	155
9	271	308	320	290	320	519	639	2,030	1,900	673	222	154
10	281	288	320	290	320	671	657	2,020	1,950	600	212	152
11	286	278	320	290	320	647	664	2,010	1,980	707	210	151
12	290	272	303	290	320	673	701	1,970	2,040	666	208	159
13	283	275	330	290	320	737	738	1,950	1,980	638	207	163
14	270	272	318	290	320	788	729	1,950	1,890	605	204	164
15	265	260	320	290	320	817	728	1,950	1,820	620	196	144
16	268	252	300	290	320	851	744	1,910	1,810	618	200	139
17	265	256	311	290	320	942	771	1,900	1,810	609	208	141
18	260	279	288	290	320	1,040	816	1,940	1,680	597	210	148
19	260	308	300	290	320	1,060	866	1,900	1,670	645	206	143
20	258	300	300	290	320	749	909	1,880	1,620	684	202	128
21	257	312	300	320	320	580	932	1,860	1,590	652	191	138
22	255	296	300	320	320	509	983	1,790	1,550	601	190	147
23	253	315	300	320	320	445	1,060	1,730	1,480	546	193	143
24	254	308	300	320	320	406	1,160	1,680	1,370	498	185	142
25	254	304	300	320	320	390	1,300	1,670	1,160	429	178	145
26	251	320	300	320	330	406	1,440	1,610	994	412	173	143
27	251	320	300	320	326	417	1,500	1,580	1,030	376	168	144
28	251	320	300	320	329	442	1,510	1,590	957	336	156	146
29	254	320	300	320	-----	434	1,530	1,630	892	304	150	134
30	256	320	300	320	-----	420	1,600	1,590	758	292	143	124
31	262	-----	300	323	-----	498	-----	1,600	-----	292	143	-----
TOTAL	8,236	8,723	9,590	9,373	8,994	17,299	27,237	56,520	48,891	18,083	6,342	4,368
MEAN	266	291	309	302	321	558	908	1,823	1,630	583	205	146
MAX	290	320	330	323	330	1,060	1,600	2,030	2,070	769	279	164
MIN	251	249	288	290	320	330	604	1,580	758	292	143	124
AC=FT	16,340	17,300	19,020	18,590	17,840</							

LOCATION.---Lat 42°12'40", Long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, on left bank 0.2 mi (0.3 km) west of Wyoming-Idaho State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

PERIOD OF RECORD.--October 1937 to current year.

AVERAGE DISCHARGE.--37 years, 426 ft³/s (12.06 m³/s) 308,600 acre-ft/yr (381 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft³/s (57.8 m³/s) May 11 (gage height, 7.15 ft or 2.179 m); minimum daily, 130 ft³/s (3.68 m³/s) Sept. 21.
Period of record: Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952 (gage height, 8.89 ft or 2.710 m); minimum daily, 30 ft³/s (0.85 m³/s) Aug. 18-22, 1940.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 122,000 acres (494 km²) above station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	281	330	310	330	350	612	1,620	1,520	708	326	137
2	270	281	330	310	330	360	662	1,840	1,580	697	319	134
3	266	268	330	310	330	365	683	1,860	1,610	725	321	142
4	263	266	330	310	330	385	694	1,880	1,710	704	303	142
5	266	248	330	310	330	360	680	1,860	1,850	680	299	149
6	266	263	330	300	330	350	666	1,860	1,960	640	296	149
7	266	281	330	300	330	380	645	1,900	1,990	610	279	158
8	268	299	330	300	330	410	639	1,960	1,970	595	266	153
9	270	308	330	300	330	500	632	2,000	1,860	620	268	149
10	277	294	330	300	330	700	652	2,010	1,860	590	268	149
11	281	288	330	300	330	700	659	2,040	1,880	710	268	146
12	283	285	330	300	330	740	686	2,010	1,920	640	266	148
13	279	290	330	300	330	800	711	1,980	1,900	620	266	151
14	270	292	330	300	330	850	700	1,960	1,800	580	259	153
15	261	285	330	300	330	880	710	1,960	1,720	590	246	144
16	261	281	310	300	330	900	715	1,940	1,680	612	234	136
17	261	279	310	300	330	1,050	725	1,900	1,700	603	242	134
18	259	292	310	300	330	1,100	751	1,880	1,610	587	242	137
19	257	322	310	300	330	1,100	798	1,840	1,560	596	240	142
20	257	321	310	300	330	850	840	1,830	1,510	680	234	132
21	253	321	310	330	330	680	854	1,860	1,460	656	222	130
22	253	320	310	330	330	580	900	1,800	1,440	626	218	146
23	251	320	310	330	330	514	956	1,740	1,380	571	222	139
24	251	320	310	330	330	464	1,070	1,660	1,290	542	214	146
25	253	320	310	330	330	438	1,200	1,620	1,130	467	199	158
26	251	330	310	330	340	458	1,330	1,550	928	455	193	157
27	251	330	310	330	340	467	1,440	1,490	912	424	188	157
28	251	330	310	330	340	502	1,460	1,510	896	384	180	158
29	251	330	310	330	-----	496	1,500	1,560	820	348	175	153
30	253	330	310	330	-----	484	1,530	1,550	715	345	166	146
31	257	-----	310	330	-----	523	-----	1,520	-----	336	158	-----
TOTAL	8,128	8,975	9,910	9,680	9,270	18,736	26,110	55,990	46,161	17,941	7,577	4,375
MEAN	262	299	320	312	331	604	870	1,806	1,539	579	244	146
MAX	283	330	330	330	340	1,100	1,530	2,040	1,990	725	326	158
MIN	251	248	310	300	330	350	612	1,490	715	336	158	130
AC-FT	16,120	17,800	19,660	19,200	18,390	37,160	51,790	111,100	91,560	35,5		

BEAR RIVER BASIN

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10041000 Thomas Fork near Wyoming-Idaho State line

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m) from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--25 years, 54.8 ft³/s (1.552 m³/s) 39,700 acre ft/yr (49.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 617 ft³/s (17.5 m³/s) May 8 (gage height, 3.15 ft or 0.960 m); minimum, 9.4 ft³/s (0.27 m³/s) Nov. 20.
Period of record: Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971 (gage height 3.84 ft or 1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	30	18	17	16	16	34	377	156	60	33	18
2	20	20	17	17	16	18	31	454	148	67	33	19
3	20	20	18	17	16	18	28	451	143	64	36	19
4	20	20	18	17	16	17	27	429	141	58	34	19
5	20	21	18	17	16	17	28	457	147	56	32	18
6	20	22	18	17	16	17	30	490	138	54	31	18
7	20	25	18	17	16	17	32	503	132	52	34	18
8	21	35	18	17	16	18	35	520	125	51	34	18
9	22	28	18	17	16	18	44	498	117	50	31	18
10	22	23	18	17	16	19	50	483	112	49	31	18
11	21	22	18	17	16	20	45	393	109	47	30	18
12	21	22	18	17	16	20	58	360	104	47	28	19
13	21	23	17	17	16	19	46	335	100	45	28	19
14	20	21	16	17	16	19	50	305	96	44	26	19
15	20	23	17	17	16	19	62	278	94	45	25	18
16	19	21	17	17	16	20	77	254	91	56	25	18
17	19	21	17	16	16	23	93	242	88	49	24	18
18	19	21	18	19	16	28	127	237	86	45	24	17
19	19	20	18	18	16	27	149	228	82	43	23	17
20	19	18	18	17	16	26	159	242	79	45	23	17
21	19	19	18	17	16	25	135	234	77	44	24	17
22	19	19	17	17	16	24	158	220	75	41	23	17
23	19	20	16	17	16	23	213	206	73	40	22	17
24	20	20	15	17	16	23	284	195	70	41	21	17
25	19	20	18	16	16	22	376	192	68	38	21	17
26	19	20	18	15	16	25	472	195	66	37	21	17
27	19	19	18	16	16	28	383	200	64	36	20	18
28	19	18	18	16	16	32	326	197	63	36	20	18
29	19	18	18	16	-----	30	306	192	61	35	20	18
30	19	18	18	16	-----	33	331	179	60	36	19	17
31	22	-----	18	16	-----	36	-----	166	-----	36	19	-----
TOTAL	616	647	545	521	448	697	4,189	9,712	2,965	1,447	815	536
MEAN	19.9	21.6	17.6	16.8	16.0	22.5	140	313	98.8	46.7	26.3	17.9
MAX	22	35	18	19	16	36	472	520	156	67	36	19
MIN	19	18	15	15	16	16	27	166	60	35	19	17
AC-FT	1,220	1,280	1,080	1,030	889	1,380	8,310	19,260	5,880	2,870	1,620	1,060

CAL YR 1973 TOTAL 18,404 MEAN 50.4 MAX 425 MIN 15 AC-FT 36,500
WTR YR 1974 TOTAL 23,138 MEAN 63.4 MAX 520 MIN 15 AC-FT 45,890

PEAK DISCHARGE (BASE, 150 cfs).--Apr. 25 (2400) 552 cfs (3.00 ft); May 8 (0100) 617 cfs (3.15 ft).

LOCATION.--Lat 42°11'50", Long 111°10'05", in NW¼ sec.23, T.14 S., R.45 E., Bear Lake County, on right bank 400 ft (122 m) downstream from Sheep Creek, 0.8 mi (1.3 km) north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi (8 km) southeast of Dingle.

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

AVERAGE DISCHARGE.--61 years, 522 ft³/s (14.78 m³/s) 378,200 acre ft/yr (466 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) May 12 (gage height, 8.77 ft or 2.673 m); minimum daily, 132 ft³/s (3.74 m³/s) Sept. 17, 18.
Period of record: Maximum discharge, 4,440 ft³/s (126 m³/s) May 7, 1952 (gage height, 11.04 ft or 3.365 m); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 21-27, 1934.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	328	390	282	353	356	722	2,000	1,730	712	400	159
2	342	342	370	258	348	377	806	2,090	1,750	821	402	144
3	336	333	340	243	354	391	832	2,170	1,790	807	378	146
4	330	330	360	220	372	372	837	2,240	1,830	804	375	150
5	325	324	370	224	341	368	833	2,260	1,930	787	360	153
6	326	313	353	238	372	401	820	2,270	2,060	760	356	153
7	327	332	365	253	368	428	804	2,320	2,140	704	345	155
8	329	361	370	267	355	474	797	2,380	2,160	654	328	150
9	332	396	331	282	343	504	797	2,440	2,100	620	317	140
10	338	394	334	296	334	553	822	2,500	2,020	620	322	139
11	343	378	330	290	318	600	841	2,530	2,020	587	317	136
12	349	364	344	295	300	670	846	2,540	2,040	684	313	134
13	353	364	338	305	300	740	882	2,520	2,060	651	316	144
14	344	370	341	315	300	820	885	2,480	2,010	652	315	147
15	333	359	342	315	308	900	875	2,440	1,900	675	301	147
16	331	354	321	315	337	980	880	2,410	1,830	687	287	136
17	329	352	321	315	340	1,070	904	2,360	1,840	695	283	132
18	327	350	339	305	371	1,170	942	2,280	1,830	697	286	132
19	325	379	308	305	348	1,290	1,010	2,230	1,760	684	288	138
20	323	392	290	300	350	1,270	1,080	2,190	1,680	781	284	139
21	321	387	309	330	357	998	1,120	2,180	1,610	809	273	134
22	318	371	345	330	316	808	1,150	2,160	1,550	767	261	136
23	314	311	352	335	314	721	1,200	2,100	1,490	732	258	144
24	310	310	338	335	310	641	1,300	2,010	1,430	690	260	143
25	310	310	349	335	300	593	1,440	1,970	1,310	614	248	152
26	310	320	317	335	313	585	1,590	1,880	1,100	560	235	158
27	310	330	296	335	321	600	1,740	1,810	983	536	214	150
28	310	345	298	335	337	632	1,840	1,770	972	483	214	152
29	310	360	285	345	-----	662	1,890	1,790	871	431	204	156
30	310	370	280	350	-----	666	1,950	1,800	779	406	183	154
31	310	-----	270	345	-----	660	-----	1,740	-----	406	168	-----
TOTAL	10,119	10,529	10,296	9,333	9,380	21,300	32,435	67,860	50,575	20,516	9,091	4,353
MEAN	326	351	332	301	335	687	1,081	2,189	1,686	662	293	145
MAX	353	396	390	350	372	1,290	1,950	2,540	2,160	821	402	159
MIN	310	310	270	220	300	356	722	1,740	779	406	168	132
AC-FT	20,070	20,880	20,420	18,510	18,610	42,250	64,330	134,600</				

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LOCATION.--Lat 42°13'48", long 111°17'43", in SE $\frac{1}{4}$ sec.3, T.14 S., R.44 E., Bear Lake County, on left bank 1.5 mi (2.4 km) west of Dingle and 1.8 mi (2.9 km) downstream from headworks at Stewart Dam.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft (1,805.03 m) above mean sea level (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft (91 m) downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi (0.8 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 2,150 ft³/s (60.9 m³/s) May 12 (gage height, 6.13 ft or 1.868 m); minimum, 23 ft³/s (0.65 m³/s) Sept. 19.

Period of record: Maximum discharge, 4,180 ft³/s (118 m³/s) May 7, 1952 (gage height, 8.62 ft or 2.627 m); minimum daily, 1 ft³/s (0.028 m³/s) on several days in 1931, 1934, 1940, 1948.

REMARKS.--Records good. Discharge measurements generally made three to five times a week. Canal diverts from Bear River at Stewart Dam in NE $\frac{1}{4}$ sec. 34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and wastage from irrigation lands on both sides of canal.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	282	326	218	290	295	633	1,720	1,260	448	292	124
2	303	299	323	213	285	304	721	1,790	1,280	420	282	103
3	302	296	285	207	290	312	752	1,860	1,310	446	281	74
4	298	283	300	200	308	322	784	1,960	1,310	437	275	57
5	293	267	300	206	277	317	777	1,980	1,400	421	269	55
6	297	284	241	212	309	336	764	1,970	1,490	406	266	57
7	297	303	275	219	304	346	752	2,020	1,590	368	273	53
8	301	319	297	226	298	359	743	2,060	1,620	389	257	53
9	305	365	278	235	281	393	724	2,090	1,620	450	248	53
10	312	358	259	242	281	434	740	2,110	1,570	457	245	50
11	314	338	260	248	254	504	780	2,120	1,540	409	243	50
12	319	331	273	253	218	496	760	2,140	1,550	447	241	48
13	320	339	288	265	221	626	801	2,110	1,560	436	232	46
14	317	339	265	276	225	684	816	2,060	1,550	423	238	47
15	306	333	255	274	230	747	816	2,050	1,450	486	240	34
16	299	317	273	278	268	851	807	2,000	1,360	512	231	30
17	298	319	274	277	272	929	819	1,990	1,320	517	229	31
18	289	332	289	265	307	1,060	855	1,910	1,310	517	227	35
19	283	341	279	263	295	1,190	886	1,870	1,270	542	223	26
20	287	364	259	242	295	1,170	941	1,860	1,170	586	214	32
21	289	357	270	251	299	873	1,010	1,830	1,110	646	217	39
22	294	324	292	293	251	711	1,050	1,800	1,070	615	214	36
23	285	245	294	276	255	622	1,090	1,810	1,040	600	210	38
24	276	269	312	277	257	558	1,150	1,710	1,010	574	206	39
25	273	269	282	276	260	517	1,240	1,570	929	535	199	39
26	272	252	268	277	261	515	1,300	1,480	788	459	189	42
27	273	270	255	281	263	537	1,410	1,380	635	430	173	45
28	275	293	248	286	283	556	1,500	1,280	627	404	164	49
29	270	300	240	296	-----	597	1,620	1,300	587	356	155	49
30	274	321	233	306	-----	603	1,650	1,320	527	316	146	61
31	278	-----	227	301	-----	598	-----	1,290	-----	315	133	-----
TOTAL	9,100	9,309	8,520	7,939	7,637	18,362	28,691	56,440	36,853	14,367	7,012	1,495
MEAN	294	310	275	256	273	592	956	1,821	1,228	463	226	49.8
MAX	320	365	326	306	309	1,190	1,650	2,140	1,620	646	292	124
MIN	270	245	227	200	218	295	633	1,280	527	315	133	26
AC-FT	18,050	18,460	16,900	15,750	15,150	36,420	56,910	111,900	73,100	28,500	13,910	2,970</

LOCATION.--Lat 42°15'14", long 111°17'35", in NE¼ sec.34, T.13 S., R.44 E., Bear Lake County, on right bank 300 ft (91 m) downstream from Stewart Dam and 4.5 mi (7.2 km) south of Montpelier.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

AVERAGE DISCHARGE.--52 years, 49.2 ft³/s (1.393 m³/s) 35,650 acre ft/yr (44.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22 ft³/s (0.62 m³/s) Oct. 1 (gage height, 1.30 ft or 0.396 m); minimum, 2.3 ft³/s (0.065 m³/s) Jan. 15.
Period of record: Maximum daily discharge, 3,050 ft³/s (86.4 m³/s) June 3, 1923; no flow July 15, 1956.

REMARKS.--Records good. Discharge measurements generally made once a week. Water diverted at Stewart Dam through Rainbow inlet canal (see station 10046000) for storage and regulation in Bear Lake. Many diversions above station for irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	8.8	7.1	4.5	4.1	4.9	7.6	11	15	12	6.0	4.0
2	9.2	8.7	7.3	4.2	4.2	5.1	8.0	11	15	11	6.0	3.6
3	9.0	8.6	6.9	3.9	4.2	5.2	8.1	11	15	12	6.0	3.8
4	8.9	8.5	6.5	3.8	4.2	5.3	7.9	11	15	12	6.0	5.2
5	8.7	8.4	6.1	3.5	4.2	5.5	7.8	11	15	11	6.0	5.1
6	8.5	8.5	5.9	3.3	4.2	5.6	7.6	12	14	11	5.9	5.0
7	8.4	8.6	6.4	3.2	4.1	5.8	7.4	12	14	10	5.8	4.8
8	8.2	8.7	7.0	3.1	4.1	7.0	7.3	12	14	9.8	5.7	5.0
9	8.7	9.4	6.9	3.1	4.0	9.6	7.2	12	14	9.8	5.7	4.7
10	8.8	9.4	6.5	3.1	4.0	12	7.3	12	15	9.8	5.7	4.3
11	8.7	9.1	6.5	3.1	4.0	13	7.4	12	15	9.6	5.7	4.3
12	8.7	8.8	6.5	3.2	3.9	15	7.4	12	15	9.3	5.7	4.4
13	8.7	8.6	6.4	3.3	3.8	16	7.4	12	14	9.0	5.8	4.6
14	8.8	8.5	6.4	3.3	3.8	16	7.3	12	14	9.0	5.9	4.8
15	8.5	8.2	6.4	3.1	3.8	16	7.2	12	14	9.3	6.0	3.5
16	8.2	7.9	6.4	3.2	3.9	17	7.3	12	13	9.3	6.1	3.1
17	8.3	7.8	6.4	3.2	3.9	18	7.4	12	14	9.3	6.2	3.0
18	8.4	7.7	6.4	3.3	4.0	18	7.9	12	14	9.4	6.3	3.1
19	8.4	7.5	6.5	3.3	4.0	16	8.3	12	14	9.6	6.3	5.5
20	8.5	7.9	6.5	3.4	4.1	12	8.9	12	14	9.9	6.3	6.5
21	8.7	7.9	6.5	3.4	4.2	12	9.1	12	14	10	6.2	6.1
22	8.8	7.8	6.5	3.5	4.2	11	9.3	12	14	9.8	6.0	5.9
23	8.9	7.3	6.6	3.6	4.2	10	9.4	12	13	9.6	5.8	5.7
24	9.0	7.0	6.6	3.7	4.2	9.3	9.9	12	13	9.2	5.6	5.8
25	9.1	6.3	6.6	3.9	4.2	8.6	11	12	13	8.6	5.5	5.8
26	9.1	6.1	6.0	4.0	4.1	8.4	11	12	12	8.2	5.5	6.0
27	8.7	6.0	5.7	4.1	4.2	8.2	11	12	13	7.7	5.3	6.1
28	8.8	6.3	5.4	4.1	4.6	8.1	11	12	13	7.3	5.3	6.3
29	8.9	6.5	5.2	4.0	-----	7.9	11	12	13	6.9	5.1	6.4
30	8.9	6.8	4.9	4.0	-----	7.8	11	13	13	6.5	4.8	7.2
31	8.8	-----	4.7	4.1	-----	7.6	-----	14	-----	6.1	4.5	-----
TOTAL	270.7	237.6	195.7	110.5	114.4	321.9	256.4	370	418	292.0	178.7	149.6
MEAN	8.73	7.92	6.31	3.56	4.09	10.4	8.55	11.9	13.9	9.42	5.76	4.99
MAX	9.4	9.4	7.3	4.5	4.6	18	11	14	15	12	6.3	7.2
MIN	8.2	6.0	4.7	3.1	3.8	4.9	7.2	11	12	6.1	4.5	3.0
AC-FT	537	471	388	219	227	638	509	734	829	579	354	297
CAL YR 1973	TOTAL	2,722.4	MEAN	7.46	MAX	20	MIN	2.0	AC-FT	5,400		
WTR YR 1974	TOTAL	2,915.5	MEAN	7.99	MAX	18	MIN	3.0	AC-FT	5,780		

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LOCATION.--Lat 42°19'47", long 111°14'12", in SW¼SE¼ sec.31, T.12 S., R.45 E., Bear Lake County, Caribou National Forest, on right bank 3 mi (5 km) east of Montpelier and 3.5 mi (5.6 km) downstream from South Fork.

AVERAGE DISCHARGE.--28 years (1942-70), 21.2 ft³/s (0.600 m³/s) 15,360 acre-ft/yr (18.9 hm³/yr).

Period of record: Maximum discharge, 224 ft³/s (6.34 m³/s) May 18, 1950; maximum gage height, 3.06 ft (0.933 m) Apr. 28, 1962; minimum discharge, 0.40 ft³/s (0.011 m³/s) Jan. 28, 1961.

REMARKS.--Records excellent. One small diversion above station for irrigation. Flow regulated by Montpelier Creek reservoir (usable capacity, 3,840 acre-ft (4.73 hm³) between sill of outlet gate and elevation 6,515.2 ft (1,985.83 m) crest of spillway. Dead storage, 210 acre-ft (259,000 m³). Earthfill dam 82 ft (25.0 m) high, completed December 1970 and storage began Dec. 23, 1970. Storage in 1971 reached an elevation of 6,513.8 ft (1,985.41 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	10	9.0	9.3	8.8	17	85	64	39	40	22
2	10	10	10	8.6	8.7	9.5	16	88	71	40	39	22
3	10	10	10	8.4	8.7	8.5	17	89	70	38	40	22
4	10	10	10	8.8	9.0	8.6	17	87	69	38	43	22
5	10	10	10	9.4	9.2	8.5	16	89	72	38	49	22
6	10	10	10	9.4	9.0	8.5	17	93	72	37	49	22
7	10	11	10	9.2	8.8	8.9	17	93	70	37	49	22
8	10	12	10	9.0	9.1	9.3	17	95	68	37	34	22
9	10	11	9.8	8.9	8.5	9.1	18	96	67	36	30	22
10	10	11	9.9	9.9	8.6	9.2	18	95	67	36	25	22
11	10	11	9.9	8.8	8.7	9.1	18	93	65	44	24	22
12	10	11	9.9	8.5	8.5	9.2	18	92	63	54	23	22
13	10	11	10	8.5	8.5	10	18	91	63	63	24	22
14	10	11	10	8.6	8.5	10	18	89	59	63	24	22
15	10	10	9.9	8.5	8.5	9.9	18	88	59	64	24	22
16	10	10	9.9	8.6	8.6	10	19	86	61	63	24	22
17	10	10	10	8.8	8.5	11	19	84	64	53	23	21
18	10	11	9.9	8.7	8.6	11	20	72	65	45	23	23
19	10	10	9.9	9.1	8.5	11	20	75	70	44	23	25
20	10	10	9.8	8.8	8.7	11	23	76	68	50	23	25
21	10	10	9.9	8.5	8.5	10	23	71	69	52	23	26
22	10	10	9.9	8.5	8.6	12	25	63	69	51	23	27
23	10	10	9.9	8.6	8.7	15	32	63	69	51	23	27
24	10	10	9.7	8.5	8.7	15	34	62	64	49	23	26
25	10	10	9.9	8.6	9.4	15	39	63	59	42	23	17
26	10	10	9.7	8.8	8.7	15	49	64	58	41	23	16
27	10	10	10	8.5	8.7	15	62	65	58	41	23	16
28	10	10	9.9	9.0	8.7	16	72	65	54	41	23	16
29	10	10	9.8	8.9	-----	16	79	66	48	40	23	16
30	10	10	9.7	8.8	-----	16	82	64	47	40	22	16
31	11	-----	9.3	8.9	-----	17	-----	63	-----	40	22	-----
TOTAL	311	311	306.6	273.1	244.5	353.1	858	2,465	1,922	1,407	884	649
MEAN	10.0	10.4	9.89	8.81	8.73	11.4	28.6	79.5	64.1	45.4	28.5	21.6
MAX	11	12	10	9.9	9.4	17	82	96	72	64	49	27
MIN	10	10	9.3	8.4	8.5	8.5	16	62	47	36	22	16
AC=FT	617	617	608	542	485	700	1,700	4,890	3,810	2,790	1,750	1,290

CAL YR 1973	TOTAL 8,281.0	MEAN 22.7	MAX 99	MIN 7.1	AC-FT 16,430
WTR YR 1974	TOTAL 9,984.3	MEAN 27.4	MAX 96	MIN 8.4	AC-FT 19,800

BEAR RIVER BASIN

10055500 Bear Lake at Lifton, near St. Charles, Idaho

LOCATION.--Lat 42°07'16", long 111°18'52", in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, in Lifton pumping plant of Utah Power & Light Company, 3.5 mi (5.6 km) east of St. Charles.

DRAINAGE AREA.--435 mi² (1,127 km²), approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906 (elevations only), January 1921 to current year. Monthly contents only January 1921 to September 1945 published in WSP 1314. Published as Bear Lake at Fish Haven 1903-06.

GAGE.--Water-stage recorder. Datum of gage is 5,900 ft (1,798.3 m) above mean sea level, unadjusted (Utah Power & Light Company datum).

EXTREMES.--Current year: Maximum contents, 1,309,000 acre-ft (1.61 km³) June 27-29 (elevation, 5,922.05 ft or 1,805.041 m); minimum, 1,083,000 acre-ft (1.34 km³) Mar. 12-19 (elevation, 5,918.82 ft or 1,804.056 m). Period of record: Maximum contents, 1,423,000 acre-ft (1.75 km³) June 10, 1923 (elevation, 5,923.68 ft or 1,805.538 m); no usable contents Nov. 9-19, 1935 (elevation, 5,902.00 ft or 1,798.930 m lower limit of pumps).

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow inlet (station 10046000) and Dingle inlet canals, man-made diversions into Mud Lake from which flow can empty into Bear Lake either through the pumping plant or through an opening in the dividing causeway, or the flow can be routed directly into the Outlet canal. (See station 10059500.) Capacity of Bear Lake is 1,421,000 acre-ft (1.75 km³) between elevation 5,902.00 ft or 1,798.930 m (lower limit of pumps) and 5,923.65 ft or 1,805.529 m (present upper limit of storage with existing facilities). Storage water used for irrigation and power development. Figures given herein represent usable contents.

COOPERATION.--Gage heights furnished by Utah Power & Light Company, under general supervision of Geological Survey, in connection with a Federal Power Commission project. Contents computed by Geological Survey from capacity table based on data furnished by Utah Power and Light Company.

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

5,918.50	1,060,400	5,921.50	1,269,900
5,919.00	1,095,200	5,922.00	1,305,000
5,919.50	1,130,000	5,922.50	1,340,100
5,920.00	1,164,900	5,923.00	1,375,400
5,920.50	1,199,900	5,923.40	1,403,600
5,921.00	1,234,900		

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,153	1,127	1,127	1,109	1,098	1,089	1,096	1,161	1,273	1,307	1,264	1,178
2	1,152	1,127	1,127	1,108	1,098	1,089	1,097	1,166	1,275	1,307	1,262	1,175
3	1,151	1,127	1,127	1,108	1,097	1,089	1,097	1,170	1,276	1,307	1,259	1,171
4	1,150	1,127	1,126	1,106	1,097	1,089	1,098	1,175	1,278	1,307	1,255	1,168
5	1,150	1,127	1,125	1,106	1,097	1,088	1,099	1,180	1,279	1,307	1,252	1,166
6	1,148	1,127	1,125	1,105	1,097	1,088	1,101	1,185	1,280	1,307	1,249	1,162
7	1,147	1,127	1,124	1,104	1,097	1,087	1,102	1,189	1,282	1,306	1,245	1,159
8	1,145	1,127	1,124	1,104	1,096	1,086	1,104	1,194	1,283	1,306	1,242	1,157
9	1,144	1,127	1,123	1,102	1,096	1,086	1,106	1,199	1,285	1,306	1,238	1,154
10	1,143	1,127	1,122	1,101	1,095	1,085	1,108	1,204	1,286	1,305	1,235	1,150
11	1,142	1,127	1,122	1,100	1,095	1,084	1,110	1,209	1,288	1,304	1,231	1,148
12	1,141	1,127	1,122	1,099	1,095	1,083	1,113	1,214	1,290	1,304	1,228	1,144
13	1,141	1,127	1,121	1,099	1,094	1,083	1,115	1,218	1,292	1,303	1,225	1,141
14	1,140	1,127	1,120	1,098	1,094	1,083	1,118	1,223	1,294	1,302	1,222	1,138
15	1,139	1,127	1,120	1,098	1,094	1,083	1,120	1,227	1,296	1,302	1,220	1,135
16	1,138	1,127	1,120	1,098	1,093	1,083	1,122	1,231	1,298	1,301	1,218	1,131
17	1,137	1,127	1,119	1,098	1,093	1,083	1,124	1,234	1,300	1,299	1,215	1,128
18	1,136	1,127	1,118	1,098	1,093	1,083	1,127	1,237	1,302	1,297	1,213	1,125
19	1,134	1,127	1,118	1,098	1,093	1,083	1,128	1,240	1,304	1,295	1,211	1,122
20	1,134	1,127	1,118	1,098	1,092	1,086	1,130	1,243	1,305	1,293	1,208	1,120
21	1,133	1,127	1,117	1,098	1,092	1,086	1,132	1,246	1,306	1,292	1,206	1,118
22	1,132	1,127	1,116	1,098	1,092	1,088	1,134	1,249	1,306	1,290	1,203	1,116
23	1,131	1,127	1,115	1,098	1,092	1,089	1,136	1,252	1,307	1,288	1,201	1,115
24	1,131	1,127	1,115	1,098	1,091	1,090	1,139	1,255	1,308	1,285	1,198	1,113
25	1,130	1,127	1,113	1,098	1,091	1,092	1,142	1,257	1,308	1,283	1,196	1,112
26	1,129	1,127	1,113	1,098	1,090	1,092	1,145	1,260	1,308	1,281	1,193	1,111
27	1,129	1,127	1,112	1,098	1,090	1,092	1,148	1,262	1,309	1,278	1,191	1,110
28	1,129	1,127	1,111	1,098	1,090	1,093	1,150	1,264	1,309	1,276	1,188	1,108
29	1,128	1,127	1,111	1,098	-----	1,095	1,153	1,266	1,309	1,273	1,185	1,107
30	1,128	1,127	1,111	1,098	-----	1,095	1,157	1,269	1,308	1,271	1,182	1,106
31	1,128	-----	1,110	1,098	-----	1,095	-----	1,271	-----	1,268	1,180	-----
MAX	1,153	1,127	1,127	1,109	1,098	1,095	1,157	1,271	1,309	1,307	1,264	1,178
MIN	1,128	1,127	1,110	1,098	1,090	1,083	1,096	1,161	1,273	1,268	1,180	1,106

(+) 5,919.47 5,919.46 5,919.21 5,919.04 5,918.92 5,919.00 5,919.89 5,921.51 5,922.04 5,921.47 5,920.22 5,919.16
 (#) -26.0 -1.0 -17.0 -12.0 -8.0 +5.0 +62.0 +114.0 +37.0 -40.0 -88.0 -74.0

CAL YR 1973..... ± -28.0
 WTR YR 1974..... ± -48.0

+ Elevation, in feet, at end of month.
 # Change in contents, in thousands of acre-feet.

BEAR RIVER BASIN

153

10058600 Bloomington Creek at Bloomington, Idaho

LOCATION.--Lat 42°11'05", long 111°25'30", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.14 S., R.43 E., Bear Lake County, on left bank 1 mi (2 km) west of Bloomington.

DRAINAGE AREA.--24.0 mi² (62.2 km²), revised.

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

GAGE.--Water-stage recorder 4 ft (1.2 m) above 8-ft (2.44 m) concrete flume. Altitude of gage is 6,070 ft (1,850 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 29.8 ft³/s (0.844 m³/s) 21,590 acre ft/yr (26.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 190 ft³/s (5.38 m³/s) June 5 (gage height, 4.06 ft or 1.237 m); minimum, 13 ft³/s (0.37 m³/s) Several days.

Period of record: Maximum discharge, 248 ft³/s (7.02 m³/s) June 11, 1971 (gage height, 4.66 ft or 1.420 m); minimum, 9.4 ft³/s (0.27 m³/s) Jan. 27, 1961, Feb. 26, 1962.

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

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	17	15	14	13	20	39	125	60	35	24
2	18	17	17	14	14	15	20	45	127	60	34	25
3	18	18	16	13	14	14	19	49	130	57	34	24
4	18	17	17	14	14	14	18	51	134	55	34	24
5	18	17	16	14	14	13	18	57	158	54	33	24
6	18	19	16	15	13	14	19	61	142	53	33	24
7	18	21	16	15	13	15	18	68	119	51	34	24
8	19	21	16	15	13	14	19	81	104	50	33	24
9	19	19	16	15	13	14	21	94	98	49	32	24
10	18	15	16	15	13	14	21	100	99	49	32	24
11	18	18	16	15	13	14	22	84	99	48	32	24
12	18	19	16	15	13	15	23	85	102	47	31	24
13	18	19	16	15	13	15	22	79	104	46	30	24
14	18	18	16	15	13	15	22	74	108	45	30	24
15	18	18	16	15	13	17	24	66	108	46	30	24
16	18	18	16	14	13	18	26	62	108	47	29	23
17	18	18	16	16	13	22	29	67	105	45	29	23
18	18	18	16	15	13	22	30	77	101	44	29	23
19	18	17	16	14	13	19	32	82	97	43	28	23
20	18	16	16	14	13	17	32	78	93	44	28	23
21	18	17	16	14	13	16	30	69	89	43	27	23
22	18	17	16	14	13	16	32	62	85	41	27	23
23	18	17	16	14	13	16	36	63	80	40	27	23
24	18	17	15	14	13	16	38	67	78	40	27	23
25	18	17	16	14	13	17	41	80	74	39	27	22
26	18	17	16	14	13	18	44	100	72	38	27	22
27	18	17	16	14	13	19	40	125	69	38	26	22
28	18	17	16	14	13	24	37	136	67	37	26	22
29	18	17	16	14	-----	20	34	140	64	36	25	22
30	18	17	16	14	-----	23	36	131	62	36	25	22
31	18	-----	16	14	-----	21	-----	126	-----	35	24	-----
TOTAL	560	533	498	447	369	520	823	2,498	3,001	1,416	918	700
MEAN	18.1	17.8	16.1	14.4	13.2	16.8	27.4	80.6	100	45.7	29.6	23.3
MAX	19	21	17	16	14	24	44	140	158	60	35	25
MIN	18	15	15	13	13	13	18	39	62	35	24	22
AC-FT	1,110	1,060	988	887	732	1,030	1,630	4,950	5,950	2,810	1,820	1,390
CAL YR 1973	TOTAL	9,178	MEAN	25.1	MAX	125	MIN	15	AC-FT	18,200		
WTR YR 1974	TOTAL	12,283	MEAN	33.7	MAX	158	MIN	13	AC-FT	24,360		

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, on right bank 2,000 ft (610 m) downstream from headwaters (at dike) and 3 mi (5 km) southeast of Paris.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,912.6 ft (1,802.16 m) above mean sea level (from topographic survey).

EXTREMES.--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) July 23 (gage height, 18.29 ft or 5.575 m); minimum daily, 15 ft³/s (0.42 m³/s) Apr. 30 to May 7.
Period of record: Maximum daily discharge, 1,870 ft³/s (53.0 m³/s) Aug. 8, 1924; minimum daily, 1 ft³/s (0.28 m³/s) for many days in 1937, 1954, 1959, 1961, 1964.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey,
in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	637	216	602	734	702	750	17	15	638	1,000	1,360	1,180
2	659	203	670	732	688	695	17	15	660	1,030	1,370	1,170
3	644	185	699	762	685	674	17	15	640	992	1,380	1,170
4	636	182	673	791	689	711	17	15	651	962	1,380	1,130
5	634	149	706	802	681	832	17	15	765	963	1,380	1,190
6	634	80	744	811	679	887	17	15	930	1,010	1,390	1,170
7	626	37	745	829	685	957	17	15	962	988	1,380	1,200
8	623	41	725	857	694	960	17	159	821	1,020	1,380	1,180
9	617	45	723	866	710	951	17	385	707	1,110	1,370	1,160
10	663	49	726	841	702	951	17	336	673	1,100	1,320	1,150
11	659	52	714	811	692	918	17	301	646	1,180	1,330	1,150
12	651	289	703	796	699	768	17	302	642	1,220	1,330	1,150
13	664	505	697	797	712	791	17	291	632	1,200	1,290	1,160
14	672	507	691	772	700	811	16	297	725	1,200	1,280	1,170
15	675	464	689	661	687	790	16	309	924	1,150	1,190	1,190
16	667	414	688	537	677	738	16	306	923	1,340	1,130	1,200
17	660	419	688	484	680	673	16	304	903	1,350	995	1,210
18	656	422	689	408	685	653	16	293	937	1,340	1,060	1,010
19	654	427	683	421	706	397	16	294	1,030	1,340	1,060	1,030
20	646	425	660	399	667	18	16	305	967	1,360	1,060	1,200
21	643	415	692	455	702	18	16	311	1,010	1,370	1,060	776
22	529	407	690	522	697	18	16	302	1,070	1,370	1,090	437
23	423	399	696	550	701	18	16	307	1,060	1,390	1,150	435
24	427	388	716	592	669	18	16	303	1,010	1,390	1,150	439
25	433	385	654	611	665	18	16	308	990	1,390	1,130	417
26	432	413	703	685	725	18	16	320	954	1,380	1,140	403
27	331	445	750	682	722	18	16	429	961	1,360	1,160	327
28	207	435	698	698	746	18	16	535	1,020	1,360	1,180	229
29	208	428	682	707	-----	17	16	552	1,020	1,350	1,220	209
30	209	480	704	685	-----	17	15	570	988	1,350	1,190	143
31	211	-----	727	682	-----	17	-----	622	-----	1,370	1,190	-----
TOTAL	17,030	9,306	21,627	20,980	19,447	15,120	492	8,546	25,859	37,855	38,095	27,045
MEAN	549	310	698	677	695	488	16.4	276	862	1,221	1,229	902
MAX	675	507	750	866	746	960	17	622	1,070	1,390	1,390	1,210
MIN	207	37	602	399	665	17	15	15	632	962	995	143
AC-FT	33,780	18,460	42,900	41,610	38,570	29,990	976	16,950	51,290	75,090	75,560	53,640

BEAR RIVER BASIN

155

10068500 Bear River at Pescadero, Idaho

LOCATION.--Lat 42°24'06", long 111°21'22", in SW¼SW¼SE¼ sec.6, T.12 S., R.44 E., Bear Lake County, on left bank at Pescadero, 400 ft (122 m) downstream from road bridge, 2 mi (3.2 km) downstream from Bennington Creek, and 6.5 mi (10.5 km) northwest of Montpelier.

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

AVERAGE DISCHARGE.--38 years (1921-54; 1969-74), 604 ft³/s (17.11 m³/s) 437,600 acre-ft/yr (540 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,470 ft³/s (41.6 m³/s) June 7, 8 (gage height, 5.13 ft or 1.564 m); maximum gage height, 6.08 ft (1.853 m) Mar. 8 (ice jam); minimum daily discharge, 147 ft³/s (4.16 m³/s) Nov. 10.

Period of record: Maximum daily discharge, 3,840 ft³/s (109 m³/s) June 10, 1923; minimum daily, 23 ft³/s (0.65 m³/s) Mar. 14-17, 1936.

REMARKS.--Records good except those for winter months and those for period of no gage-height record, which are fair. Many diversions above station for irrigation. Flow regulated by Bear Lake. (See sta 10055500.)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	670	295	573	677	750	800	491	311	919	1,300	1,450	1,260
2	709	290	704	728	750	800	464	303	1,060	1,340	1,450	1,240
3	697	265	861	830	750	750	458	304	1,060	1,330	1,450	1,230
4	685	257	819	850	750	750	428	300	1,030	1,280	1,450	1,240
5	687	258	777	860	750	840	391	295	1,060	1,240	1,450	1,240
6	686	234	826	880	750	940	369	336	1,340	1,260	1,450	1,220
7	688	177	836	900	750	1,000	347	354	1,450	1,250	1,450	1,220
8	688	158	848	910	750	1,100	322	377	1,460	1,220	1,450	1,220
9	696	151	830	940	750	1,200	308	660	1,320	1,300	1,450	1,200
10	692	147	830	900	750	1,260	307	723	1,270	1,300	1,400	1,180
11	711	148	824	860	750	1,210	307	691	1,160	1,330	1,380	1,160
12	713	154	818	860	750	1,080	314	739	1,100	1,370	1,380	1,160
13	719	475	806	860	750	1,050	292	702	1,060	1,370	1,380	1,190
14	733	577	806	860	750	1,080	282	723	1,050	1,310	1,380	1,210
15	734	580	794	820	750	1,100	260	732	1,240	1,230	1,350	1,220
16	729	522	824	620	750	1,090	245	763	1,280	1,380	1,200	1,230
17	722	504	716	550	750	1,100	242	763	1,270	1,450	1,050	1,230
18	717	504	710	450	750	1,140	234	682	1,250	1,450	1,100	1,220
19	711	504	800	450	750	1,100	216	639	1,320	1,440	1,150	971
20	707	474	830	450	750	648	213	646	1,400	1,440	1,150	1,190
21	697	490	848	460	750	557	227	722	1,360	1,440	1,150	1,150
22	688	485	672	540	750	533	227	742	1,390	1,460	1,150	604
23	518	493	655	620	750	448	233	721	1,460	1,460	1,200	472
24	457	490	677	660	750	413	229	679	1,410	1,460	1,220	474
25	459	475	818	700	750	392	229	594	1,300	1,460	1,220	470
26	461	499	746	750	770	443	229	587	1,230	1,450	1,220	440
27	479	528	776	750	800	489	253	568	1,190	1,450	1,220	428
28	337	568	752	750	800	552	298	685	1,200	1,420	1,250	313
29	283	549	800	750	-----	569	319	737	1,320	1,420	1,250	250
30	281	517	660	750	-----	555	315	767	1,350	1,420	1,210	246
31	284	-----	746	750	-----	542	-----	819	-----	1,420	1,270	-----
TOTAL	19,038	11,768	23,982	22,735	21,120	25,531	9,049	18,664	37,309	42,450	40,330	28,878
MEAN	614	392	774	733	754	824	302	602	1,244	1,369	1,301	963
MAX	734	580	861	940	800	1,260	491	819	1,460	1,460	1,450	1,260
MIN	281	147	573	450	750	392	213	295	919	1,220	1,050	246
AC-FT	37,760	23,340	47,570	45,090	41,890	50,640	17,950	37,020	74,000	84,200	79,990	57,280

CAL YR 1973 TOTAL 274,332 MEAN 752 MAX 1,750 MIN 147 AC-FT 544,100
WTR YR 1974 TOTAL 300,854 MEAN 824 MAX 1,460 MIN 147 AC-FT 596,700

NOTE.--No gage-height record July 26 to Aug. 29.

BEAR RIVER BASIN

10072800 Eightmile Creek near Soda Springs, Idaho

LOCATION.--Lat 42°32'15", long 111°34'20", in SE¼ sec.20, T.10 S., R.42 E., Bear Lake County, on right bank just below Wilson Creek, 15 ft (5 m) below roadbridge, 0.3 mi (0.5 km) north of Eightmile Ranger Station, and 8.4 mi (13.5 km) south of Soda Springs.

DRAINAGE AREA.--22.6 mi² (58.5 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft (1,881 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 17.2 ft³/s (0.487 m³/s) 12,460 acre-ft/yr (15.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 138 ft³/s (3.91 m³/s) June 5 (gage height, 2.42 ft or 0.738 m); minimum, 1.4 ft³/s (0.040 m³/s) Feb. 21.

Period of record: Maximum discharge, 160 ft³/s (4.53 m³/s) June 18, 1971 (gage height, 2.57 ft or 0.783 m); minimum, 0.98 ft³/s (0.028 m³/s) Mar. 3-5, 10, 20, 21, 1969.

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

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.4	4.1	2.5	2.7	2.6	9.2	41	122	44	14	7.9
2	4.7	3.9	3.8	2.6	2.5	2.9	8.8	44	123	45	13	7.9
3	4.5	3.7	3.3	3.0	2.4	2.8	8.4	48	122	41	13	7.8
4	4.6	3.6	3.6	2.9	2.5	2.6	8.0	52	127	36	13	7.9
5	4.5	3.6	3.1	2.8	2.4	3.1	7.8	54	133	34	12	7.8
6	4.3	4.0	3.4	2.8	2.1	3.0	7.8	64	127	33	12	8.0
7	4.4	5.4	3.7	2.8	2.4	3.1	7.6	76	123	32	13	7.8
8	5.3	7.8	3.8	2.8	2.3	3.1	7.9	84	118	31	12	7.6
9	5.0	5.5	2.9	2.8	2.4	2.7	8.6	84	108	29	12	7.5
10	4.8	4.8	2.8	2.8	2.2	2.7	9.1	92	103	29	12	7.2
11	4.7	4.6	3.2	2.8	2.3	2.8	8.6	90	102	28	11	7.3
12	4.8	5.4	3.4	2.8	2.3	3.1	8.9	88	104	27	11	7.5
13	4.5	5.3	3.4	2.8	2.4	3.6	8.5	82	107	26	11	7.4
14	4.4	5.0	3.4	2.7	2.3	3.8	8.6	81	109	25	11	7.4
15	4.4	4.7	3.3	2.8	2.5	4.0	9.6	78	111	25	10	7.3
16	4.2	4.5	3.4	2.9	2.3	5.3	11	73	110	25	9.9	7.2
17	4.2	4.6	3.4	3.1	2.5	7.3	14	71	109	23	9.6	7.1
18	4.1	4.7	3.3	2.7	2.3	8.8	18	72	104	22	9.6	7.0
19	4.1	4.4	2.6	3.0	2.3	7.8	22	74	98	21	9.4	7.1
20	4.1	4.1	2.9	2.8	2.1	6.5	23	75	93	21	9.5	7.0
21	4.1	4.0	3.4	2.4	2.0	6.4	21	73	87	20	9.4	6.8
22	4.1	3.9	3.4	2.1	2.5	6.9	23	76	79	19	9.2	6.7
23	4.2	3.6	3.3	2.6	2.2	6.3	28	75	75	19	9.0	6.8
24	4.6	3.6	3.2	2.8	2.0	6.1	35	76	70	19	9.2	6.7
25	4.5	3.3	2.7	2.7	2.5	6.3	47	79	66	18	8.9	6.7
26	4.3	3.5	2.8	2.6	2.5	7.0	53	89	63	17	8.8	6.7
27	4.1	3.6	3.1	2.4	2.5	8.4	48	104	59	17	8.3	6.9
28	4.1	3.7	3.1	2.3	2.5	9.5	43	122	56	16	8.1	6.5
29	4.2	3.8	3.2	2.7	-----	8.8	40	129	52	16	7.9	6.5
30	4.1	3.9	3.1	2.7	-----	10	39	130	46	15	7.9	6.2
31	4.0	-----	2.9	2.6	-----	9.9	-----	128	-----	14	7.8	-----
TOTAL	136.4	130.9	101.0	84.1	65.9	167.2	592.4	2,504	2,906	787	322.5	216.2
MEAN	4.40	4.36	3.26	2.71	2.35	5.39	19.7	80.8	96.9	25.4	10.4	7.21
MAX	5.3	7.8	4.1	3.1	2.7	10	53	130	133	45	14	8.0
MIN	4.0	3.3	2.6	2.1	2.0	2.6	7.6	41	46	14	7.8	6.2
AC-FT	271	260	200	167	131	332	1,180	4,970	5,760	1,560	640	429

CAL YR 1973 TOTAL 5,531.9 MEAN 15.2 MAX 106 MIN 2.6 AC-FT 10,970
WTR YR 1974 TOTAL 8,013.6 MEAN 22.0 MAX 133 MIN 2.0 AC-FT 15,890

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LOCATION.--Lat 42°36'50", long 111°34'58", in NW¼SW¼NW¼ sec.29, T.9 S., R.42 E., Caribou County, on left bank 800 ft (244 m) upstream from Bailey Creek road bridge and 2 mi (3 km) south of Soda Springs.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

EXTREMES.--Current year: Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 8 (gage height, 4.95 ft or 1.509 m); minimum, 279 ft³/s (7.90 m³/s) Oct. 1.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	751	390	691	542	923	1,010	755	583	1,150	1,390	1,400	1,330
2	761	394	719	518	906	1,110	708	587	1,270	1,410	1,400	1,320
3	765	392	805	598	925	1,070	674	595	1,310	1,430	1,400	1,300
4	757	369	908	791	922	1,010	646	607	1,280	1,380	1,400	1,320
5	748	376	901	935	920	1,000	614	619	1,300	1,330	1,400	1,320
6	740	383	942	937	903	1,070	589	637	1,490	1,320	1,420	1,300
7	732	362	907	999	903	1,220	570	679	1,670	1,320	1,440	1,290
8	740	338	879	1,030	908	1,320	537	709	1,700	1,290	1,430	1,300
9	758	316	900	1,010	919	1,380	535	869	1,600	1,330	1,430	1,280
10	776	299	966	1,040	920	1,370	537	1,030	1,490	1,360	1,420	1,260
11	786	296	960	1,050	938	1,430	536	1,020	1,390	1,350	1,410	1,220
12	791	307	866	1,030	904	1,300	550	1,030	1,310	1,390	1,410	1,200
13	797	462	845	1,030	918	1,230	510	1,000	1,270	1,420	1,400	1,240
14	802	731	846	1,050	918	1,110	506	1,020	1,240	1,390	1,390	1,250
15	807	736	823	1,040	933	1,110	479	1,050	1,300	1,330	1,370	1,260
16	807	705	862	986	898	1,130	467	1,050	1,440	1,380	1,340	1,270
17	801	684	865	887	900	1,190	460	1,050	1,420	1,510	1,220	1,260
18	796	674	804	779	900	1,260	472	980	1,380	1,510	1,150	1,270
19	790	659	827	727	920	1,250	466	933	1,430	1,500	1,180	1,100
20	785	633	826	682	927	968	464	972	1,520	1,490	1,160	1,130
21	780	635	853	656	925	730	478	1,020	1,520	1,490	1,170	1,240
22	777	631	866	633	928	715	470	1,040	1,500	1,500	1,180	897
23	691	607	840	710	928	653	491	999	1,560	1,500	1,220	621
24	589	619	838	744	900	591	514	949	1,560	1,510	1,260	583
25	579	632	734	809	894	582	511	902	1,450	1,500	1,250	589
26	572	569	653	830	930	645	528	868	1,370	1,480	1,250	562
27	566	616	666	883	966	742	543	872	1,310	1,470	1,270	538
28	506	664	893	888	960	835	570	922	1,280	1,470	1,280	488
29	396	655	860	913	-----	828	588	1,020	1,350	1,460	1,310	407
30	376	653	827	919	-----	818	582	1,040	1,420	1,460	1,330	368
31	385	-----	584	923	-----	833	-----	1,060	-----	1,460	1,340	-----
TOTAL	21,707	15,787	25,756	26,569	25,736	31,510	16,350	27,712	42,280	44,130	41,030	31,513
MEAN	700	526	831	857	919	1,016	545	894	1,409	1,424	1,324	1,050
MAX	807	736	966	1,050	966	1,430	755	1,060	1,700	1,510	1,440	1,330
MIN	376	296	584									

BEAR RIVER BASIN

10076400 Soda Creek at Fivemile Meadows, near Soda Springs, Idaho

LOCATION.--Lat 42°43'45", long 111°36'55", in SE¼NW¼ sec.13 T.8 S., R.41 E., Caribou County, on right bank 100 ft (30 m) southeast of Lau ranchhouse, 150 ft (46 m) downstream from Schmidt ditch, and 5 mi (8.0 km) north of Soda Springs.

DRAINAGE AREA.--51.7 mi² (133.9 km²), revised.

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 at this site published as "at Lau ranch"; records not equivalent owing to diversion in Schmidt ditch during irrigation season.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,822 m) from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft (122 m) upstream at different datum.

AVERAGE DISCHARGE.--10 years (1964-74), 17.4 ft³/s (0.493 m³/s) 12,610 acre-ft/yr (15.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 70 ft³/s (1.98 m³/s) Mar. 30 (gage height, 1.86 ft or 0.567 m); minimum daily, 14 ft³/s (0.40 m³/s) Jan. 2.
Period of record: Maximum discharge, 98 ft³/s (2.78 m³/s) Apr. 2, 1965 (gage height, 4.01 ft or 1.222 m, site and datum then in use); no flow Dec. 24, 1966.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	20	23	16	17	17	49	27	31	27	23	18
2	24	20	23	14	16	20	38	28	31	27	23	18
3	24	19	23	15	16	19	30	27	30	27	23	18
4	24	18	23	15	16	19	25	27	30	27	23	18
5	24	18	22	15	16	18	25	27	31	28	23	17
6	24	19	21	16	16	19	26	27	31	28	23	18
7	24	22	21	16	16	19	25	28	31	28	23	18
8	25	26	21	15	16	19	23	28	31	27	23	19
9	25	24	20	16	16	18	23	28	30	27	23	19
10	24	21	20	16	15	18	25	28	30	27	22	19
11	22	21	19	15	16	18	27	28	30	27	22	19
12	22	21	19	15	16	18	30	28	30	27	22	19
13	22	22	19	15	16	19	27	28	30	26	22	19
14	21	22	19	15	16	19	25	28	30	26	22	19
15	21	22	18	15	16	19	24	28	30	26	22	19
16	21	22	18	15	16	20	24	28	30	26	22	19
17	21	24	19	15	16	22	24	28	30	26	20	19
18	21	24	19	15	16	25	24	28	30	26	20	19
19	21	24	18	16	17	26	25	29	29	25	20	19
20	21	24	18	16	17	24	25	31	29	25	20	19
21	21	24	18	16	16	24	26	34	29	25	20	19
22	21	24	18	15	17	24	25	34	28	23	20	19
23	20	24	18	16	16	24	25	34	28	23	19	19
24	20	24	18	15	16	23	25	31	28	23	19	19
25	20	24	15	16	17	25	25	31	28	23	19	19
26	20	24	17	16	17	29	26	31	28	23	19	20
27	20	22	17	16	17	41	26	31	27	22	19	20
28	19	22	17	16	17	62	26	31	27	23	18	20
29	19	22	16	16	-----	62	25	31	27	23	18	19
30	19	22	17	16	-----	61	26	31	27	23	18	19
31	19	-----	16	15	-----	64	-----	31	-----	23	18	-----
TOTAL	673	665	590	480	455	835	800	909	881	787	648	565
MEAN	21.7	22.2	19.0	15.5	16.3	26.9	26.7	29.3	29.4	25.4	20.9	18.8
MAX	25	26	23	16	17	64	49	34	31	28	23	20
MIN	19	18	15	14	15	17	23	27	27	22	18	17
AC-FT	1,330	1,320	1,170	952	902	1,660	1,590	1,800	1,750	1,560	1,290	1,120
CAL YR 1973	TOTAL 8,448		MEAN 23.1		MAX 90		MIN 12		AC-FT 16,760			
WTR YR 1974	TOTAL 8,288		MEAN 22.7		MAX 64		MIN 14		AC-FT 16,440			

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LOCATION.--Lat 42°38'42", long 111°41'51", in NE¼SW¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, on right bank 600 ft (183 m) downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi (0.8 km) southeast of Alexander and 5 mi (8 km) downstream from Soda Creek.

EXTREMES.--Current year: Maximum discharge, 2,290 ft³/s (64.9 m³/s) Feb. 4 (gage height, 3.30 ft or 1.006 m); minimum, 73 ft³/s (2.07 m³/s) Oct. 22.
Period of record: Maximum discharge observed, 4,740 ft³/s (139 m³/s) Mar. 31, 1911; maximum gage height, 15.95 ft (4.862 m) Dec. 11, 1919 (backwater from ice); minimum discharge, 28 ft³/s (0.79 m³/s) at times when reservoir gates were closed.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	937	453	808	1,010	1,060	1,080	975	721	1,270	1,380	1,400	1,350
2	880	464	854	1,010	1,070	1,070	836	720	1,270	1,440	1,410	1,340
3	830	473	993	1,010	1,060	1,070	766	723	1,260	1,470	1,430	1,330
4	831	467	994	1,010	1,020	1,130	754	770	1,330	1,450	1,430	1,290
5	830	467	996	1,010	1,060	1,160	750	770	1,370	1,430	1,430	1,350
6	832	463	996	1,010	1,070	1,160	688	742	1,360	1,390	1,390	1,350
7	836	456	990	1,010	1,070	1,200	678	809	1,350	1,430	1,440	1,350
8	833	464	999	1,010	1,070	1,340	678	864	1,350	1,430	1,420	1,350
9	837	495	1,000	1,020	1,070	1,480	685	867	1,350	1,450	1,390	1,370
10	834	533	1,000	1,020	1,060	1,540	636	861	1,340	1,500	1,390	1,350
11	813	641	994	1,030	921	1,450	669	864	1,360	1,490	1,380	1,350
12	817	819	1,000	1,030	1,060	1,350	698	904	1,420	1,490	1,370	1,360
13	811	812	992	1,030	1,060	1,350	691	937	1,460	1,490	1,360	1,340
14	810	804	994	1,050	1,070	1,340	660	971	1,450	1,480	1,360	1,320
15	872	800	991	1,050	1,070	1,340	625	1,050	1,450	1,410	1,370	1,310
16	928	794	987	1,050	1,060	1,350	621	1,090	1,460	1,480	1,360	1,300
17	927	787	997	1,050	1,070	1,340	601	1,110	1,460	1,450	1,340	1,290
18	952	783	995	1,050	1,070	1,330	611	1,110	1,340	1,480	1,330	1,280
19	920	797	999	1,050	1,060	1,160	618	1,100	1,460	1,490	1,340	1,270
20	918	787	988	1,060	1,070	1,050	618	1,080	1,510	1,490	1,350	1,240
21	920	795	1,000	1,070	1,060	1,050	620	1,110	1,570	1,500	1,350	1,220
22	833	784	991	1,080	1,080	1,040	617	1,100	1,540	1,490	1,350	1,050
23	761	786	996	1,070	1,080	1,030	619	1,100	1,540	1,480	1,350	690
24	765	798	999	1,070	1,080	1,040	617	1,130	1,440	1,460	1,320	638
25	755	774	1,000	1,060	1,080	1,040	659	1,140	1,460	1,310	1,330	604
26	758	750	998	1,060	1,080	1,040	683	1,120	1,450	1,420	1,330	577
27	756	737	992	1,060	1,070	990	738	1,170	1,440	1,440	1,330	570
28	753	737	997	1,070	1,060	966	756	1,190	1,450	1,440	1,330	553
29	546	738	1,010	1,060	-----	1,020	730	1,170	1,470	1,420	1,330	458
30	456	768	1,010	1,070	-----	1,020	736	1,210	1,470	1,370	1,340	428
31	458	-----	1,010	1,060	-----	1,020	-----	1,240	-----	1,420	1,340	-----
TOTAL	25,009	20,226	30,570	32,300	29,711	36,546	20,633	30,743	42,450	44,870	42,390	33,278
MEAN	807	674	986	1,042	1,061	1,179	688	992	1,415	1,447	1,367	1,109

BEAR RIVER BASIN

10084500 Cottonwood Creek near Cleveland, Idaho

LOCATION.--Lat 42°19'57", long 111°46'27", in SW¼ sec.34, T.12 S., R.40 E., Franklin County, on right bank 500 ft (152 m) upstream from Cleveland irrigation canal, 2.5 mi (4.0 km) west of Cleveland, and 4 mi (6 km) downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi² (159.8 km²).

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft (1,570 m) from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years (1939-74), 31.1 ft³/s (0.881 m³/s) 22,530 acre ft/yr (27.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 454 ft³/s (12.9 m³/s) Apr. 25 (gage height, 3.57 ft or 1.088 m); minimum, 3.8 ft³/s (0.11 m³/s) Nov. 25.

Period of record: Maximum discharge, 773 ft³/s (21.9 m³/s) Apr. 27, 1952 (gage height, 3.83 ft or 1.167 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 11, 1961.

REMARKS.--Records good except those for periods of ice effect, which are fair. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi (16.3 km) above station in SW¼ sec.8, T.12 S., R.39 E., for irrigation in Battle Creek basin in vicinity of Treasureton.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	10	10	16	17	82	204	68	11	9.6	5.9
2	10	9.9	11	8.0	14	22	75	221	63	16	9.7	6.0
3	10	9.5	8.5	6.0	16	22	67	222	60	16	9.8	5.8
4	10	11	11	8.0	16	26	61	211	55	12	9.9	5.7
5	10	9.9	9.8	9.2	15	22	60	219	53	12	9.9	5.6
6	10	14	8.8	12	15	23	64	223	50	11	8.7	5.5
7	11	15	11	12	15	24	68	225	46	10	9.1	5.5
8	12	24	11	12	15	26	77	238	48	9.9	9.1	5.5
9	14	19	8.6	12	15	24	92	231	43	9.1	9.5	5.3
10	12	15	9.1	12	15	27	94	219	39	9.1	9.5	5.2
11	11	14	11	13	15	31	95	174	36	9.1	9.9	5.3
12	11	15	12	13	15	35	111	155	33	9.1	9.9	5.6
13	11	18	14	13	16	39	94	140	30	8.7	9.9	5.8
14	11	16	14	13	22	36	88	122	25	8.7	9.9	5.6
15	10	12	12	14	17	35	103	108	23	8.7	9.9	5.6
16	9.9	12	13	14	16	45	124	96	21	9.5	9.4	6.8
17	9.9	13	14	16	17	69	165	90	20	9.1	9.2	6.8
18	9.5	14	14	16	15	92	214	88	18	8.7	9.0	6.7
19	9.5	14	13	17	16	82	264	86	17	8.3	8.9	6.6
20	9.5	11	11	17	16	67	239	97	16	8.0	9.2	6.6
21	9.1	11	12	16	16	59	199	106	15	7.7	9.2	6.6
22	9.5	11	13	17	16	53	226	104	15	7.7	7.3	6.9
23	9.5	8.5	14	15	16	48	296	97	14	7.4	7.0	6.9
24	11	9.5	12	17	16	46	345	91	13	7.7	8.5	6.7
25	11	5.0	13	17	16	49	373	89	13	7.7	7.7	6.6
26	10	6.5	12	16	16	67	327	95	12	7.4	6.0	6.8
27	10	6.9	11	16	16	103	255	103	12	8.3	5.9	6.9
28	9.9	6.8	13	14	16	117	209	98	11	9.1	5.8	7.1
29	9.9	7.7	13	16	-----	92	179	94	11	9.2	5.8	7.1
30	9.5	9.2	12	16	-----	95	180	85	11	9.3	5.8	7.1
31	10	-----	11	16	-----	95	-----	75	-----	9.4	5.8	-----
TOTAL	320.7	360.4	362.8	423.2	445	1,588	4,826	4,406	891	294.9	264.8	186.1
MEAN	10.3	12.0	11.7	13.7	15.9	51.2	161	142	29.7	9.51	8.54	6.20
MAX	14	24	14	17	22	117	373	238	68	16	9.9	7.1
MIN	9.1	5.0	8.5	6.0	14	17	60	75	11	7.4	5.8	5.2
AC-FT	636	715	720	839	883	3,150	9,570	8,740	1,770	585	525	369

CAL YR 1973 TOTAL 11,610.7 MEAN 31.8 MAX 290 MIN 5.0 AC-FT 23,030
WTR YR 1974 TOTAL 14,368.9 MEAN 39.4 MAX 373 MIN 5.0 AC-FT 28,500

PEAK DISCHARGE (BASE, 150 cfs).--Apr. 25 (2400) 454 cfs (3.57 ft); May 8 (0100) 277 cfs (3.10 ft).

BEAR RIVER BASIN

161

10086500 Bear River below Utah Power & Light Co.'s tailrace, at Oneida, Idaho

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¼SE¼NW¼ sec.26, T.13 S., R.40 E., Franklin County, on right bank 200 ft (61 m) downstream from tailrace of Oneida plant and 6 mi (10 km) south of Cleveland.

DRAINAGE AREA.--4,456 mi² (11,541 km²), revised.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (1,460 m) from topographic map.

AVERAGE DISCHARGE.--53 years, 826 ft³/s (23.39 m³/s) 598,400 acre ft/yr (738 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,750 ft³/s (106 m³/s) Mar. 19 (gage height, 7.25 ft or 2.210 m); minimum, 37 ft³/s (1.05 m³/s) Mar. 1.
Period of record: Maximum daily discharge, 5,480 ft³/s (155 m³/s) May 8, 1922; minimum daily, 10 ft³/s (0.28 m³/s) Dec. 6, 1964.

REMARKS.--Records good. Many diversions above station. Flow regulated by Bear Lake and Soda, Grace, and Oneida hydroelectric plants.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,180	656	1,060	938	1,230	1,000	1,710	1,340	1,440	1,120	1,190	1,200
2	1,040	722	779	732	1,290	1,380	1,100	1,250	1,330	1,230	1,320	1,250
3	1,060	768	1,070	809	874	1,390	1,310	1,410	1,480	1,290	1,110	1,050
4	1,190	238	1,100	1,160	1,260	912	1,170	1,310	1,340	1,130	1,190	1,140
5	1,010	658	1,310	1,260	1,080	1,270	1,170	1,460	1,340	1,100	1,130	1,300
6	1,150	693	1,120	1,040	1,140	1,380	1,180	1,940	1,350	1,190	1,130	1,030
7	881	750	1,310	1,210	1,160	1,510	1,050	954	1,360	1,060	1,130	1,260
8	1,130	768	1,260	1,160	1,150	1,540	1,400	1,520	1,410	1,020	1,560	1,050
9	1,200	623	1,120	1,030	1,190	1,840	992	1,470	1,470	1,220	1,150	1,210
10	1,090	605	1,290	1,300	1,160	1,770	1,140	1,570	1,290	1,350	1,010	1,420
11	810	729	1,120	1,220	1,150	1,810	1,020	1,420	1,240	1,140	1,410	1,340
12	1,290	1,150	1,250	920	1,090	1,700	1,350	1,470	1,300	1,270	1,340	1,190
13	701	716	1,360	1,150	1,100	1,680	1,170	1,560	1,460	1,200	1,070	1,240
14	1,090	1,010	1,000	1,310	1,210	1,560	1,270	1,460	1,500	1,130	1,170	1,250
15	950	866	1,180	1,270	1,160	1,640	1,070	1,480	1,290	1,070	1,180	1,210
16	1,280	983	1,200	1,280	1,150	1,790	1,020	1,380	1,290	1,440	1,170	1,440
17	1,030	969	1,100	1,230	1,220	1,600	1,200	1,480	1,290	1,160	1,210	1,000
18	932	1,050	1,360	1,350	1,050	1,920	1,030	1,650	1,200	1,040	1,240	1,360
19	1,070	1,190	1,150	1,220	1,290	1,660	1,190	1,010	1,580	1,520	1,190	1,320
20	1,180	859	1,120	1,210	1,090	1,690	1,490	1,300	847	848	1,190	1,220
21	1,060	1,040	1,190	1,200	1,070	1,400	1,050	1,790	1,180	1,330	1,080	1,340
22	1,190	945	1,170	1,070	1,170	1,370	1,110	1,210	1,300	1,090	1,270	1,280
23	1,010	1,010	1,190	1,320	1,280	1,470	1,150	1,600	1,190	1,170	1,270	807
24	796	846	1,390	1,050	1,130	1,310	1,440	1,470	1,170	1,060	1,140	876
25	1,060	905	985	1,390	937	1,440	1,600	1,180	1,090	1,290	1,260	759
26	937	1,040	1,110	1,160	1,290	1,330	1,190	1,630	1,150	1,040	1,290	504
27	1,010	1,030	1,200	1,080	1,120	1,560	1,240	1,320	1,300	1,150	1,210	556
28	999	834	1,150	1,220	1,250	1,540	1,950	1,320	997	1,380	1,240	940
29	760	826	1,240	1,150	-----	1,500	1,050	1,150	1,130	1,070	1,150	340
30	475	1,140	1,290	1,260	-----	1,630	1,150	1,520	1,080	980	1,120	692
31	703	-----	1,120	1,170	-----	1,480	-----	1,340	-----	1,280	1,210	-----
TOTAL	31,264	25,619	36,294	35,869	32,291	47,072	36,962	43,964	38,394	36,368	37,330	32,574
MEAN	1,009	854	1,171	1,157	1,153	1,518	1,232	1,418	1,280	1,173	1,204	1,086
MAX	1,290	1,190	1,390	1,390	1,290	1,920	1,950	1,940	1,580	1,520	1,560	1,440
MIN	475	238	779	732	874	912	992	954	847	848	1,010	340
AC-FT	62,010	50,820	71,990	71,150	64,050	93,370	73,310	87,200	76,150	72,140	74,040	64,610
CAL YR 1973	TOTAL 408,901		MEAN 1,120		MAX 2,080		MIN 145		AC-FT 811,100			
WTR YR 1974	TOTAL 434,001		MEAN 1,189		MAX 1,950		MIN 238		AC-FT 860,800			

LOCATION.--Lat 42°10'05", long 111°50'59", in NW¼ sec.36, T.14 S., R.39 E., Franklin County, on left bank 600 ft (183 m) downstream from headgates of West Cache Canal, 5 mi (8 km) downstream from Mink Creek, 5 mi (8 km) north of Preston, and 5.5 mi (8 km) upstream from Battle Creek.

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903, published as "at Battlecreek." Monthly discharge only for some periods, published in WSP 1314.

AVERAGE DISCHARGE.--31 years (1943-74), 861 ft³/s (24.38 m³/s) 623,800 acre-ft/yr (769 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,080 ft³/s (87.2 m³/s) May 9 (gage height, 4.62 ft or 1.408 m); minimum recorded, 31 ft³/s (0.88 m³/s) Oct. 1; minimum daily, 218 ft³/s (6.17 m³/s) Nov. 4.
1889-1917: Maximum discharge, about 8,500 ft³/s (241 m³/s) June 9, 10, 1907, estimated on basis of records for station near Collinston, Utah; maximum gage height observed, 9.04 ft (2.755 m) Jan. 17, 18, 1917 (backwater from ice), site and datum then in use; minimum discharge not determined.
1943-74: Maximum discharge, 4,420 ft³/s (125 m³/s) Apr. 17, 1950 (gage height, 5.61 ft or 1.710 m); minimum, 0.6 ft³/s (0.017 m³/s) June 14, 1949; minimum daily, 2.0 ft³/s (0.057 m³/s) May 11, 1968.

REVISIONS (WATER YEARS).--WSP 205: 1905-7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	543	839	1,000	1,070	1,050	1,730	1,340	1,640	802	864	1,070
2	528	685	834	840	1,590	1,560	1,210	1,290	1,480	950	985	977
3	538	682	1,080	950	905	1,490	1,310	1,590	1,390	1,120	1,020	1,060
4	727	218	1,050	1,250	1,300	903	1,150	1,380	1,490	887	1,210	1,070
5	480	523	1,260	1,230	1,260	1,430	1,130	1,510	1,600	763	969	1,080
6	769	736	1,120	1,100	1,220	1,420	1,150	1,870	1,460	1,050	854	945
7	507	617	1,230	1,300	1,190	1,720	922	1,140	1,540	897	996	1,100
8	589	812	1,030	1,250	1,230	1,430	1,370	1,570	1,500	852	1,410	793
9	614	574	1,010	1,120	1,300	1,910	933	1,870	1,570	1,140	973	1,270
10	707	610	1,320	1,450	1,230	1,810	1,210	1,700	1,400	1,680	837	1,180
11	788	768	937	1,250	1,190	1,940	1,190	1,970	1,180	1,050	1,580	1,090
12	1,200	982	1,260	1,150	1,190	1,870	1,390	1,630	1,570	1,070	1,160	1,030
13	687	836	1,410	1,250	1,140	1,820	1,170	1,720	1,480	1,030	894	968
14	973	949	1,010	1,400	1,380	1,550	1,260	1,500	1,650	1,020	1,140	1,060
15	946	808	1,060	1,290	1,150	1,630	1,350	1,530	1,410	975	929	1,020
16	1,220	962	1,290	1,350	1,270	1,840	933	1,460	1,540	1,190	939	1,130
17	1,000	1,040	968	1,330	1,180	1,670	1,480	1,240	1,390	1,070	1,150	980
18	904	986	1,420	1,360	1,350	2,040	1,060	1,640	1,270	935	1,190	1,170
19	997	1,160	922	1,330	1,430	1,870	1,310	1,080	1,650	1,350	867	1,140
20	1,250	757	1,170	1,310	874	1,610	1,620	1,210	1,010	591	1,120	1,060
21	1,020	1,030	1,140	1,410	1,370	1,390	1,260	1,970	1,040	979	1,040	1,180
22	1,120	909	1,140	1,050	1,210	1,340	1,160	1,010	1,340	1,050	1,050	1,160
23	1,080	1,010	1,200	1,380	1,320	1,530	1,230	1,640	1,060	1,010	1,110	706
24	887	863	1,140	1,080	1,260	1,220	1,670	1,200	1,230	1,020	1,030	778
25	969	847	1,230	1,470	932	1,420	1,870	1,210	950	957	901	627
26	911	1,070	1,100	1,290	1,510	1,300	1,310	1,660	952	949	1,140	401
27	1,030	1,000	1,230	1,080	1,280	1,380	1,320	1,500	1,200	966	958	442
28	815	768	1,170	1,370	1,410	1,680	2,220	1,490	861	1,250	1,190	757
29	855	790	1,230	1,190	-----	1,470	1,080	1,350	988	1,080	944	244
30	555	1,180	1,290	1,370	-----	1,900	1,260	1,600	1,020	424	1,040	560
31	687	-----	1,160	1,310	-----	1,360	-----	1,530	-----	1,380	1,030	-----
TOTAL	25,839	24,715	35,250	38,510	34,741	48,553	39,258	46,400	39,861	31,487	32,520	28,048
MEAN												

BEAR RIVER BASIN

163

10091200 Deep Creek near Clifton, Idaho

LOCATION.--Lat 42°11'55", long 111°59'09", in SE¼SW¼ sec.14 T.14 S., R.38 E., Franklin County, on right bank 40 ft (12 m) above county road culvert, and 1.3 mi (2.1 km) northeast of Clifton.

DRAINAGE AREA.--107 mi² (277 km²), revised.

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

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 4,705 ft (1,434 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 12.7 ft³/s (0.360 m³/s) 9,200 acre-ft/yr (11.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 145 ft³/s (4.11 m³/s) Mar. 7 (gage height, 6.40 ft or 1.951 m, from high water marks on outside of well); minimum, 0.86 ft³/s (0.024 m³/s) Aug. 24.
Period of record: Maximum discharge, 152 ft³/s (4.30 m³/s) Mar 31, 1969 (gage height, 6.80 ft or 2.073 m, from high water mark on outside of well); minimum, 0.57 ft³/s (0.016 m³/s) Nov. 26, 27, 1966, Sept. 29, 1970.

REMARKS.--Records good except those for winter periods, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.1	12	6.0	5.0	20	44	25	10	5.8	3.4	2.1
2	3.0	2.7	13	5.0	5.0	60	50	24	14	4.4	2.5	2.7
3	2.7	2.7	13	4.5	5.0	45	47	23	12	3.4	2.3	1.4
4	3.0	3.5	12	4.9	5.0	40	44	22	11	3.5	5.6	1.3
5	3.0	4.0	11	5.6	5.0	38	41	21	12	2.8	4.4	1.4
6	3.0	4.5	12	6.4	5.0	50	40	20	9.3	3.4	3.7	1.6
7	3.0	5.0	13	7.0	5.0	96	38	19	9.3	2.4	5.9	1.7
8	3.2	5.8	13	6.4	5.0	121	35	20	12	2.0	2.8	2.1
9	3.6	5.8	13	4.5	5.0	104	35	17	9.4	2.5	2.4	2.0
10	3.2	5.8	13	3.5	5.0	116	39	17	12	2.2	2.4	1.6
11	3.3	5.8	13	4.0	5.0	118	46	15	9.6	2.7	2.2	1.7
12	3.3	6.5	12	4.0	5.0	120	45	14	9.0	2.6	1.8	1.7
13	3.3	8.3	12	4.3	8.0	129	44	14	10	2.4	1.5	1.6
14	3.2	8.2	13	4.8	11	120	40	15	9.0	3.3	1.3	1.5
15	3.4	8.3	13	5.2	13	116	38	15	7.6	3.1	1.6	1.3
16	3.0	8.5	13	5.6	13	112	37	13	6.6	2.1	3.1	1.5
17	3.1	8.6	13	6.0	11	106	36	13	9.1	2.3	4.4	2.0
18	2.8	10	14	5.5	9.0	102	34	12	9.1	2.2	2.3	3.2
19	3.0	11	13	5.0	9.0	90	36	11	7.7	3.4	2.2	1.6
20	3.1	10	11	5.0	9.0	79	36	15	6.4	5.2	2.4	1.0
21	3.1	10	12	5.0	9.0	71	33	22	6.4	5.6	1.7	1.0
22	3.1	10	13	5.0	9.0	66	30	14	5.3	3.2	1.9	.99
23	3.0	11	13	5.0	9.0	62	29	12	5.0	3.3	1.5	.99
24	3.3	11	12	5.0	9.0	57	28	12	4.7	6.2	1.4	1.1
25	3.4	10	11	5.0	9.0	53	28	12	4.5	3.9	1.6	2.7
26	3.2	9.0	11	5.0	12	51	32	12	3.9	4.4	1.4	1.5
27	3.2	10	10	5.0	12	45	30	12	4.3	2.7	1.5	1.3
28	3.2	11	10	5.0	13	46	28	11	4.5	1.8	1.4	1.7
29	3.3	11	11	5.0	-----	46	27	11	4.3	1.5	2.5	1.7
30	3.4	11	10	5.0	-----	46	27	13	5.2	3.3	1.3	1.3
31	3.2	-----	8.0	5.0	-----	47	-----	9.8	-----	3.4	1.8	-----
TOTAL	99.4	232.1	373.0	158.2	225.0	2,372	1,097	485.8	243.2	101.0	76.2	49.28
MEAN	3.21	7.74	12.0	5.10	8.04	76.5	36.6	15.7	8.11	3.26	2.46	1.64
MAX	4.8	11	14	7.0	13	129	50	25	14	6.2	5.9	3.2
MIN	2.7	2.7	8.0	3.5	5.0	20	27	9.8	3.9	1.5	1.3	.99
AC-FT	197	460	740	314	446	4,700	2,180	964	482	200	151	98
CAL YR 1973	TOTAL	5,270.90	MEAN	14.4	MAX	100	MIN	1.3	AC-FT	10,450		
WTR YR 1974	TOTAL	5,512.18	MEAN	15.1	MAX	129	MIN	.99	AC-FT	10,930		

BEAR RIVER BASIN

10092700 Bear River at Idaho-Utah State line

LOCATION.--Lat 42°00'47", long 111°55'14", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, on left bank 1,050 ft (320 m) downstream from inlet canal to Cub River pumps, 1.1 mi (1.8 km) downstream from Weston Creek, 1.8 mi (2.9 km) upstream from State line, and 3.5 mi (5.6 km) southeast of Weston.

DRAINAGE AREA.--4,881 mi² (12,642 km²), revised.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,980 ft³/s (84.4 m³/s) Apr. 29 (gage height, 6.40 ft or 1.951 m); minimum daily, 416 ft³/s (11.8 m³/s) Sept. 30.
Period of record: Maximum discharge, 4,190 ft³/s (119 m³/s) June 12 (gage height, 8.25 ft or 2.515 m); minimum daily, 73 ft³/s (2.07 m³/s) Nov. 20, 1970.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	757	1,050	1,100	1,500	1,500	1,850	1,680	1,540	1,170	903	1,150
2	1,130	730	1,240	1,000	1,500	1,750	1,820	1,570	1,570	1,130	1,060	998
3	1,240	919	936	1,150	1,500	1,700	1,530	1,600	1,670	1,030	918	1,280
4	1,210	791	1,220	1,350	1,500	1,600	1,380	1,740	1,690	1,060	1,140	994
5	1,110	435	1,450	1,400	1,500	1,600	1,380	1,710	1,640	1,070	981	1,290
6	1,190	783	1,360	1,300	1,400	1,700	1,420	1,870	1,710	969	1,110	861
7	1,310	862	1,290	1,400	1,400	1,900	1,170	1,880	1,660	858	965	1,300
8	883	864	1,370	1,400	1,400	1,900	1,560	1,540	1,730	1,020	1,130	1,150
9	1,300	845	1,260	1,300	1,400	2,100	1,220	1,960	1,770	996	1,170	1,150
10	1,190	766	1,310	1,550	1,400	2,100	1,450	2,120	1,680	897	1,110	1,030
11	1,130	769	1,260	1,400	1,400	2,200	1,350	1,960	1,460	984	1,260	1,240
12	1,220	1,080	1,240	1,250	1,400	2,200	1,590	1,810	1,550	1,030	1,130	1,230
13	1,180	1,150	1,480	1,350	1,400	2,100	1,560	1,870	1,410	1,000	1,400	1,130
14	1,190	1,230	1,440	1,450	1,400	1,900	1,490	1,670	1,710	1,030	989	1,180
15	858	910	1,190	1,500	1,400	1,950	1,490	1,750	1,620	1,000	1,050	1,190
16	1,320	1,120	1,360	1,500	1,400	2,030	1,410	1,450	1,670	938	1,080	1,200
17	1,210	1,180	1,510	1,500	1,400	2,250	1,420	1,670	1,610	1,230	1,060	1,430
18	1,250	1,090	1,380	1,500	1,500	2,270	1,510	1,490	1,510	1,060	1,090	1,120
19	1,190	1,340	1,170	1,500	1,500	2,320	1,370	1,570	1,670	1,000	1,130	1,160
20	1,460	896	1,330	1,500	1,500	1,860	1,580	1,370	1,560	1,090	935	1,270
21	1,240	1,160	1,390	1,500	1,500	1,650	1,610	1,740	1,210	1,030	1,110	1,250
22	1,180	1,040	1,380	1,500	1,500	1,700	1,570	1,770	1,330	1,060	1,090	1,320
23	1,360	1,110	1,340	1,500	1,600	1,540	1,510	1,480	1,150	935	1,140	946
24	1,100	1,010	1,390	1,500	1,400	1,540	1,650	1,600	1,200	1,130	895	795
25	1,080	1,070	1,410	1,500	1,300	1,610	1,800	1,370	1,120	1,200	1,170	836
26	1,130	1,050	1,230	1,500	1,500	1,620	2,060	1,500	1,110	982	1,130	570
27	1,130	1,140	1,420	1,500	1,600	1,750	1,710	1,680	1,120	940	979	479
28	1,110	1,130	1,470	1,500	1,600	1,860	1,830	1,620	1,010	1,040	989	877
29	1,110	939	1,320	1,500	-----	1,720	1,960	1,720	1,020	1,220	965	489
30	770	1,070	1,470	1,500	-----	1,800	1,350	1,580	1,000	906	1,140	416
31	704	-----	1,300	1,500	-----	1,770	-----	1,740	-----	1,220	994	-----
TOTAL	35,835	29,236	40,966	43,900	40,800	57,490	46,610	52,080	43,700	32,225	33,213	31,331
MEAN	1,156	975	1,321	1,416	1,457	1,855	1,554	1,680	1,457	1,040	1,071	1,044
MAX	1,460	1,340	1,510	1,550	1,600	2,320	2,060	2,120	1,770	1,230	1,400	1,430
MIN	704	435	936	1,000	1,300	1,500	1,170	1,370	1,000	858	895	416
AC=FT	71,080	57,990	81,260	87,080	80,930	114,000	92,450	103,300	86,680	63,920	65,880	62,150
CAL YR 1973	TOTAL 430,879			MEAN 1,180	MAX 2,080	MIN 168	AC=FT 854,600					
WTR YR 1974	TOTAL 487,386			MEAN 1,335	MAX 2,320	MIN 416	AC=FT 966,700					

NOTE.--No gage-height record Jan. 2 to Mar. 15.

10093000 Cub River near Preston, Idaho

LOCATION.--Lat 42°08'28", long 111°41'19", in SW¼ sec.5, T.15 S., R.41 E., Franklin County, Cache National Forest, on right bank 0.2 mi (0.3 km) upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi (1.1 km) upstream from forest boundary, and 10 mi (16 km) east of Preston.

DRAINAGE AREA.--31.6 mi² (81.8 km²), revised.

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft (1,610.90 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--31 years, 84.4 ft³/s (2.390 m³/s) 61,150 acre-ft/yr (75.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 654 ft³/s (18.5 m³/s) May 29 (gage height, 2.75 ft or 0.838 m); minimum, 13 ft³/s (0.37 m³/s) Feb. 19.

Period of record: Maximum discharge, 803 ft³/s (22.7 m³/s) June 11, 1971 (gage height, 3.13 ft or 0.954 m); maximum gage height, 3.83 ft (1.167 m) June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	24	21	22	21	35	165	550	185	66	41
2	27	26	24	20	21	28	35	204	539	176	65	40
3	27	26	24	21	21	27	35	234	556	165	63	40
4	27	26	24	22	21	25	33	244	595	154	62	39
5	27	26	23	22	22	24	32	268	612	146	62	39
6	27	26	23	22	21	24	33	314	610	141	61	38
7	27	26	23	22	21	26	35	355	535	134	62	38
8	27	26	23	21	21	26	37	438	446	128	60	37
9	27	26	22	21	20	26	44	502	354	123	58	37
10	27	26	22	21	20	27	49	543	328	118	57	37
11	27	26	22	21	21	28	46	460	357	114	57	36
12	27	26	23	21	21	28	48	398	399	109	55	36
13	27	26	23	22	21	29	43	371	433	106	55	36
14	27	26	23	21	21	29	41	340	460	100	54	35
15	27	26	22	21	20	29	45	300	466	97	52	35
16	27	26	22	21	21	30	50	266	475	94	51	34
17	27	26	22	23	21	30	57	247	469	91	51	34
18	27	27	23	24	21	30	75	268	460	88	51	34
19	27	26	22	24	21	30	88	319	442	87	50	34
20	27	25	22	24	19	30	95	327	420	85	49	33
21	27	25	22	23	19	30	84	280	395	82	48	32
22	27	25	22	22	19	30	83	247	358	80	47	32
23	27	24	22	22	19	30	110	229	320	78	47	32
24	27	25	22	22	20	30	143	224	290	76	46	32
25	27	24	22	22	20	35	169	265	271	75	45	32
26	26	24	22	22	20	40	196	362	256	74	44	32
27	26	24	22	22	20	38	174	502	239	72	44	32
28	26	24	22	22	20	35	151	593	224	70	43	31
29	26	23	21	22	-----	35	138	637	209	69	43	31
30	26	23	21	21	-----	35	138	617	197	67	42	31
31	26	-----	21	22	-----	35	-----	583	-----	67	41	-----
TOTAL	831	761	695	677	574	920	2,342	11,102	12,265	3,251	1,631	1,050
MEAN	26.8	25.4	22.4	21.8	20.5	29.7	78.1	358	409	105	52.6	35.0
MAX	27	27	24	24	22	40	196	637	612	185	66	41
MIN	26	23	21	20	19	21	32	165	197	67	41	31
AC-FT	1,650	1,510	1,380	1,340	1,140	1,820	4,650	22,020	24,330	6,450	3,240	2,080
CAL YR 1973	TOTAL 26,361	MEAN 72.2	MAX 604	MIN 18	AC-FT 52,290							
WTR YR 1974	TOTAL 36,099	MEAN 98.9	MAX 637	MIN 19	AC-FT 71,600							

NOTE.--No gage-height record Oct. 5 to Nov. 14.

BEAR RIVER BASIN

10102250 Bear River near Smithfield, Utah

LOCATION.--Lat 41°50'24", long 111°52'51", in S½ sec.30, R.1 E., T.13 N., Cache County, on upstream side of left abutment of abandoned highway bridge, 0.6 mi (1.0 km) upstream from mouth of Summit Creek, and 2.6 mi (4.2 km) west of Smithfield.

DRAINAGE AREA.--5,193 mi² (13,450 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 4,399.89 ft (1,341.086 m) above mean sea level (Utah State Highway bench mark).

AVERAGE DISCHARGE.--10 years, 1,421 ft³/s (40.24 m³/s) 1,030,000 acre-ft/yr (1.27 km³/yr).

EXTREMES.--Current year: Maximum discharge, 3,060 ft³/s (86.7 m³/s) May 12 (gage height 13.11 ft or 3.996 m); minimum daily, 645 ft³/s (18.3 m³/s) Sept. 30.
Period of record: Maximum discharge, 5,850 ft³/s (166 m³/s) June 13, 14, 1971 (gage height, 14.46 ft or 4.407 m); minimum daily, 132 ft³/s (3.74 m³/s) May 30, 1966.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	871	1,210	1,500	1,690	1,510	2,170	2,260	2,580	1,210	1,210	1,220
2	1,500	821	1,260	1,400	1,640	1,780	2,200	2,170	2,450	1,250	1,140	1,310
3	1,360	820	1,300	1,300	1,680	2,080	2,260	2,220	2,350	1,270	1,230	1,290
4	1,350	964	1,210	1,300	1,610	2,190	2,060	2,270	2,350	1,260	1,140	1,420
5	1,330	736	1,340	1,450	1,580	2,070	1,880	2,360	2,430	1,220	1,230	1,290
6	1,310	677	1,460	1,450	1,500	1,880	1,760	2,430	2,520	1,210	1,160	1,390
7	1,320	901	1,510	1,450	1,500	1,990	1,720	2,530	2,640	1,150	1,260	1,260
8	1,340	920	1,480	1,990	1,500	2,380	1,590	2,700	2,710	1,070	1,200	1,370
9	1,230	965	1,490	1,450	1,500	2,680	1,680	2,650	2,760	1,120	1,320	1,340
10	1,390	901	1,420	1,450	1,500	2,820	1,720	2,770	2,670	1,100	1,410	1,360
11	1,360	839	1,460	1,500	1,500	2,880	1,810	2,950	2,570	1,090	1,310	1,350
12	1,250	900	1,430	1,500	1,500	2,930	1,910	3,040	2,390	1,150	1,400	1,450
13	1,330	1,150	1,420	1,500	1,500	2,980	2,010	2,890	2,310	1,160	1,360	1,440
14	1,290	1,230	1,500	1,500	1,500	3,020	2,060	2,680	2,270	1,190	1,400	1,390
15	1,270	1,230	1,520	1,500	1,500	2,960	1,970	2,520	2,330	1,180	1,250	1,420
16	1,120	1,120	1,380	1,600	1,500	2,770	1,910	2,350	2,390	1,160	1,220	1,430
17	1,310	1,200	1,440	1,600	1,500	2,690	1,820	2,140	2,390	1,160	1,180	1,440
18	1,340	1,280	1,520	1,600	1,500	2,770	1,800	1,990	2,350	1,320	1,230	1,560
19	1,320	1,270	1,490	1,600	1,500	2,840	1,880	1,920	2,230	1,240	1,260	1,420
20	1,310	1,390	1,390	1,600	1,500	2,880	1,890	1,980	2,160	1,210	1,250	1,420
21	1,430	1,220	1,410	1,600	1,470	2,680	2,020	2,010	2,120	1,270	1,200	1,480
22	1,390	1,250	1,460	1,600	1,480	2,410	2,090	2,170	1,820	1,150	1,220	1,480
23	1,340	1,220	1,490	1,600	1,500	2,160	2,010	2,220	1,780	1,260	1,230	1,430
24	1,420	1,250	1,470	1,600	1,490	2,010	2,000	2,030	1,610	1,160	1,260	1,280
25	1,270	1,190	1,490	1,600	1,530	1,930	2,150	1,990	1,560	1,230	1,170	1,050
26	1,210	1,190	1,520	1,600	1,470	1,890	2,370	1,910	1,420	1,280	1,260	1,010
27	1,230	1,210	1,380	1,600	1,510	1,910	2,610	1,970	1,370	1,200	1,270	730
28	1,230	1,280	1,490	1,630	1,620	1,960	2,620	2,230	1,370	1,130	1,200	754
29	1,210	1,240	1,500	1,590	-----	2,100	2,540	2,410	1,270	1,210	1,200	1,010
30	1,170	1,100	1,500	1,640	-----	2,150	2,530	2,560	1,220	1,310	1,190	645
31	906	-----	1,500	1,650	-----	2,160	-----	2,550	-----	1,070	1,270	-----
TOTAL	40,336	32,335	44,440	47,950	42,770	73,460	61,040	72,870	64,390	36,990	38,630	38,439
MEAN	1,301	1,078	1,434	1,547	1,528	2,370	2,035	2,351	2,146	1,193	1,246	1,281
MAX	1,500	1,390	1,520	1,990	1,690	3,020	2,620	3,040	2,760	1,320	1,410	1,560
MIN	906	677	1,210	1,300	1,470	1,510	1,590	1,910	1,220	1,070	1,140	645
AC-FT	80,010	64,140	88,150	95,110	84,830	145,700	121,100	144,500	127,700	73,370	76,620	76,240
CAL YR 1973	TOTAL 533,084		MEAN 1,461		MAX 2,400		MIN 291		AC-FT 1,057,000			
WTR YR 1974	TOTAL 593,650		MEAN 1,626		MAX 3,040		MIN 645		AC-FT 1,178,000			

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LOCATION.--Lat 41°52'10", long 111°45'30", in SE¼NE¼ sec.18, T.13 N., R.2 E., Cache County, on left bank 300 ft (91 m) downstream from forest boundary, 3.2 mi (5.1 km) upstream from Birch Creek, and 4.5 mi (7.2 km) northeast of Smithfield.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,371 ft (1,637.1 m) above mean sea level, unadjusted.

EXTREMES.--Current year: Maximum discharge, 190 ft³/s (5.38 m³/s) May 27 (gage height, 2.37 ft or 0.722 m); minimum, 4.7 ft³/s (0.13 m³/s) Jan. 1, 2.
Period of record: Maximum discharge, 302 ft³/s (8.55 m³/s) May 23, 1967 (gage height, 3.05 ft or 0.930 m); minimum, 2.1 ft³/s (0.059 m³/s) Feb. 26, 1964.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.8	7.4	5.7	7.2	8.4	17	56	95	35	14	9.4
2	7.3	6.6	7.6	5.3	7.1	13	17	69	94	33	14	9.4
3	7.3	6.5	7.3	7.1	7.1	13	16	72	100	32	14	9.2
4	7.3	6.4	7.3	7.3	7.1	12	15	75	101	30	14	9.1
5	7.0	6.3	7.3	7.0	7.3	11	15	94	113	29	13	8.9
6	7.0	6.3	7.3	6.8	7.0	11	15	112	100	28	13	8.7
7	7.0	6.4	7.3	6.8	7.0	11	15	127	79	27	13	8.6
8	7.3	7.2	7.3	6.8	6.8	11	15	151	62	26	13	8.5
9	7.3	7.6	7.3	6.8	6.8	11	16	163	55	25	13	8.4
10	7.3	7.6	7.1	6.5	6.8	11	17	138	53	24	13	8.4
11	7.0	7.5	7.1	6.5	6.8	12	17	94	57	24	12	8.6
12	7.0	7.7	7.3	6.5	6.9	13	18	81	67	23	12	8.2
13	6.8	7.9	7.1	6.6	7.1	14	18	70	82	22	12	8.1
14	6.8	7.9	7.0	6.6	7.3	14	18	62	96	21	12	8.1
15	6.8	7.4	7.0	6.5	7.6	14	19	52	102	20	12	7.9
16	6.8	7.3	6.8	6.6	7.7	14	22	47	100	20	11	7.8
17	6.8	7.3	6.9	7.9	8.2	16	25	49	99	19	11	7.8
18	6.5	7.8	7.3	8.5	8.2	18	33	57	89	19	11	7.7
19	6.5	7.4	7.0	8.7	8.3	18	39	57	80	18	11	7.6
20	6.5	7.2	7.0	8.4	8.0	18	42	53	76	18	11	7.5
21	6.5	7.3	7.0	8.2	7.8	16	38	45	71	17	11	7.5
22	6.5	7.3	7.1	7.9	8.0	16	36	40	62	16	11	7.5
23	6.6	7.3	7.2	7.6	7.6	15	49	41	58	16	10	7.5
24	6.5	7.3	7.0	7.6	7.2	14	76	48	55	16	10	7.3
25	6.5	7.3	7.1	7.3	7.6	14	95	59	52	15	10	7.3
26	6.5	7.2	7.0	7.5	7.5	16	106	86	48	15	9.9	7.0
27	6.3	7.0	7.0	7.3	7.6	17	74	134	44	15	9.8	7.1
28	6.3	7.0	7.4	7.3	7.7	18	57	150	41	15	9.7	7.1
29	6.6	7.1	7.2	7.1	-----	18	47	138	38	14	9.6	7.0
30	6.3	7.1	7.1	7.1	-----	18	46	115	36	14	9.5	6.9
31	6.4	-----	7.1	7.2	-----	18	-----	101	-----	14	9.4	-----
TOTAL	210.6	215.0	221.9	221.0	207.3	443.4	1,033	2,636	2,205	660	358.9	240.1
MEAN	6.79	7.17	7.16	7.13	7.40	14.3	34.4	85.0	73.5	21.3	11.6	8.00
MAX	7.3	7.9	7.6	8.7	8.3	18	106	163	113	35	14	9.4
MIN	6.3	6.3	6.8	5.3	6.8	8.4	15	40	36	14	9.4	6.9
AC=FT	418	426	440	438	411	879	2,050	5,230	4,370	1,310	712	476
CAL YR 1973	TOTAL 6,275.8		MEAN 17.2	MAX 141	MIN 3.9	AC=FT 12,450						
WTR YR 1974	TOTAL 8,652.2		MEAN 23.7	MAX 163	MIN 5.3	AC=FT 17,160						

LOCATION.--Lat 41°30'01", long 111°48'57", in NE¼SE¼ sec.22, T.9 N., R.1 E., Cache County, on right bank 0.3 mi (0.5 km) upstream from Davenport Creek, and 2.2 mi (3.5 km) south of Avon.

PERIOD OF RECORD.--July 1966 to September 1974 (discontinued).

AVERAGE DISCHARGE.--8 years, 26.9 ft³/s (0.762 m³/s) 19,490 acre-ft/yr (24.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 276 ft³/s (7.82 m³/s) Apr. 25 (gage height, 2.27 ft or 0.692 m); minimum, 10 ft³/s (0.28 m³/s) Feb. 24.
Period of record: Maximum discharge, 563 ft³/s (15.9 m³/s) Jan. 21, 1969 (gage height, 3.18 ft or 0.969 m); minimum, 8.0 ft³/s (0.23 m³/s) Dec. 28, 1966.

REMARKS.--Records good. A few small diversions for irrigation above station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	16	14	16	26	67	103	40	23	18	15
2	14	16	17	14	16	80	79	103	39	24	17	15
3	14	15	16	14	15	38	55	102	39	23	17	15
4	15	15	16	14	15	27	51	98	39	23	17	15
5	15	15	15	14	15	24	50	95	41	22	17	15
6	15	15	14	14	14	27	49	93	40	22	17	15
7	15	16	14	14	14	39	46	92	40	22	17	15
8	16	18	14	14	14	37	51	92	40	22	17	15
9	16	16	14	14	14	32	57	93	37	21	17	15
10	16	15	13	14	14	35	55	90	35	21	17	15
11	15	15	14	14	14	38	57	82	34	21	16	15
12	15	16	14	14	14	51	66	75	33	21	16	15
13	15	17	14	14	14	55	53	69	33	21	16	15
14	15	17	14	14	14	44	65	64	32	21	16	15
15	15	16	14	14	14	66	76	60	31	21	16	15
16	15	15	14	19	14	84	71	57	31	20	16	15
17	15	16	14	34	14	102	83	54	30	20	16	15
18	15	20	14	24	14	103	95	53	29	20	16	14
19	15	17	13	26	15	61	111	53	29	20	16	14
20	15	16	13	23	14	47	125	56	28	20	16	14
21	15	16	13	20	14	39	94	62	28	19	16	14
22	15	16	13	17	14	36	119	55	28	19	16	14
23	16	16	14	18	13	33	158	47	27	19	16	14
24	16	15	13	17	13	33	184	45	26	19	15	14
25	17	15	13	17	14	42	189	44	26	18	15	14
26	17	15	13	17	14	52	155	43	25	18	15	14
27	16	14	14	16	14	73	116	43	25	18	15	14
28	16	14	14	16	14	87	96	43	25	18	15	14
29	16	14	14	16	-----	58	94	42	24	18	15	14
30	14	15	14	16	-----	92	100	42	23	18	15	14
31	15	-----	14	16	-----	73	-----	41	-----	18	15	-----
TOTAL	474	473	436	522	398	1,634	2,667	2,091	957	630	499	437
MEAN	15.3	15.8	14.1	16.8	14.2	52.7	84.9	67.5	31.9	20.3	16.1	14.6
MAX	17	20	17	34	16	103	189	103	41	24	18	15
MIN	14	14	13	14	13	24	46	41	23	18	15	14
AC-FT	940	938	865	1,040	789	3,240	5,290	4,150	1,900	1,250	990	867
CAL YR 1973	TOTAL 10,967		MEAN 30.0	MAX 199	MIN 13	AC-FT 21,750						
WTR YR 1974	TOTAL 11,218		MEAN 30.7	MAX 189	MIN 13	AC-FT 22,250						

BEAR RIVER BASIN

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10104700 Little Bear River below Davenport Creek, near Avon, Utah

LOCATION.--Lat 41°30'45", long 111°48'40", in SW¼SW¼ sec.14, T.9 N., R.1 E., Cache County, on right bank 0.6 mi (1.0 km) downstream from Davenport Creek and 1.5 mi (2.4 km) south of Avon.

DRAINAGE AREA.--61.6 mi² (159.5 km²), revised.

PERIOD OF RECORD.--October 1960 to current year. Published as 10105700 South Fork Little Bear River near Avon, 1960-62.

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft (1,530 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 56.7 ft³/s (1.606 m³/s) 41,080 acre ft/yr (50.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 416 ft³/s (11.8 m³/s) Apr. 24 (gage height, 2.07 ft or 0.631 m); minimum, 16 ft³/s (0.45 m³/s) Feb. 21, 24.
Period of record: Maximum discharge, 976 ft³/s (27.6 m³/s) Jan. 21, 1969 (gage height, 3.47 or 1.058 m); minimum, 6.3 ft³/s (0.18 m³/s) Feb. 3, 1964.

REMARKS.--Records good. A few small diversions for irrigation above the station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	38	33	20	33	46	118	190	222	62	41	31
2	32	33	35	20	32	149	146	208	212	65	41	32
3	32	31	33	24	31	80	94	220	206	63	42	32
4	32	30	33	28	31	54	86	212	204	60	40	31
5	31	30	31	32	31	52	85	229	205	58	39	31
6	31	31	31	31	30	55	86	254	186	56	38	30
7	31	33	32	31	30	81	78	278	168	54	39	30
8	32	36	32	30	28	80	84	307	156	52	39	31
9	35	32	29	20	29	72	94	329	140	51	37	31
10	33	30	28	29	28	77	92	336	135	53	37	30
11	32	30	31	29	28	87	94	289	130	53	37	31
12	31	33	31	30	29	112	114	272	129	51	36	31
13	30	36	31	24	30	105	89	254	128	50	35	32
14	30	35	31	31	29	82	117	230	128	48	35	32
15	30	33	29	26	29	131	142	214	122	49	35	31
16	30	32	30	24	28	168	138	203	115	49	35	30
17	30	33	31	60	29	207	156	209	110	48	34	30
18	30	43	31	49	28	211	172	216	105	48	34	30
19	30	40	24	51	29	113	187	214	97	46	34	30
20	30	35	27	48	28	86	206	206	91	47	34	30
21	30	35	32	40	24	70	160	188	87	47	34	29
22	31	34	31	32	27	65	193	174	86	45	34	30
23	31	33	30	39	26	59	249	164	82	44	33	29
24	31	33	30	36	24	58	292	175	79	43	33	29
25	31	32	30	35	26	72	312	202	76	41	33	29
26	31	32	24	35	28	89	281	231	74	42	33	28
27	31	31	29	34	27	127	220	271	69	41	33	28
28	31	31	33	34	27	158	179	293	67	42	32	28
29	31	31	32	32	-----	98	167	283	64	41	32	29
30	31	32	31	32	-----	150	170	258	62	41	32	29
31	31	-----	29	32	-----	125	-----	236	-----	41	31	-----
TOTAL	965	998	944	1,018	799	3,119	4,601	7,345	3,735	1,531	1,102	904
MEAN	31.1	33.3	30.5	32.8	28.5	101	153	237	125	49.4	35.5	30.1
MAX	35	43	35	60	33	211	312	336	222	65	42	32
MIN	30	30	24	20	24	46	78	164	62	41	31	28
AC-FT	1,910	1,980	1,870	2,020	1,580	6,190	9,130	14,570	7,410	3,040	2,190	1,790
CAL YR 1973	TOTAL	25,090	MEAN	68.7	MAX	365	MIN	23	AC-FT	49,770		
WTR YR 1974	TOTAL	27,061	MEAN	74.1	MAX	336	MIN	20	AC-FT	53,680		

BEAR RIVER BASIN

10104900 East Fork Little Bear River above reservoir, near Avon, Utah

LOCATION.--Lat 41°31'06", long 111°42'49", in NW¼ sec.15, T.9 N., R.2 E., Cache County, on right bank 1.2 mi (1.9 km) above Porcupine Creek, 1.7 mi (2.7 km) above Porcupine Dam, 5.2 mi (8.4 km) east of Avon, and 7.2 mi (11.6 km) southeast of Paradise.

DRAINAGE AREA.--56.7 mi² (146.8 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,398 ft (1,645.3 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 37.8 ft³/s (1.070 m³/s) 27,390 acre-ft/yr (33.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 635 ft³/s (18.0 m³/s) Apr. 24 (gage height, 3.52 ft or 1.073 m); minimum, 5.4 ft³/s (0.15 m³/s) Dec. 26, Jan. 1.
Period of record: Maximum discharge, 635 ft³/s (18.0 m³/s) Apr. 24, 1974 (gage height, 3.52 ft or 1.073 m); minimum, 2.2 ft³/s (0.062 m³/s) Feb. 26, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	10	8.2	6.3	11	13	80	313	76	23	14	10
2	8.1	9.0	8.4	6.0	11	24	70	348	72	23	14	9.9
3	8.1	8.4	7.8	6.8	10	27	62	307	67	23	15	9.8
4	8.1	8.1	8.1	7.0	10	23	56	296	63	22	15	9.7
5	8.1	7.8	8.0	7.0	11	21	54	314	64	22	14	9.7
6	8.1	8.1	7.9	8.0	10	21	55	320	61	21	14	9.8
7	8.1	8.7	8.1	8.0	11	20	53	330	57	20	14	9.7
8	8.4	11	8.1	8.0	9.9	21	54	342	55	20	14	9.6
9	8.6	9.6	7.6	8.0	11	22	63	335	52	19	14	9.6
10	8.4	8.8	7.7	8.0	10	26	71	306	48	19	14	9.6
11	8.3	8.5	7.6	8.0	10	30	63	246	46	19	13	9.7
12	8.1	8.9	7.9	8.0	11	32	66	219	44	19	13	9.8
13	8.1	9.2	7.9	8.0	11	41	64	197	42	18	13	9.4
14	7.8	9.2	7.9	8.0	12	42	63	173	40	18	13	9.3
15	7.8	8.7	7.7	8.3	12	49	68	151	38	18	12	9.2
16	7.8	8.7	7.8	8.7	12	60	78	141	37	18	12	8.7
17	7.8	8.7	7.9	9.9	13	81	101	134	36	18	12	8.7
18	7.8	9.3	8.2	11	13	100	148	130	35	17	12	8.7
19	7.8	9.1	7.3	12	13	83	181	126	33	17	12	8.6
20	7.8	8.8	7.8	12	13	70	194	122	32	17	12	8.6
21	7.8	8.9	7.7	11	12	60	150	111	31	16	12	8.6
22	7.8	8.5	7.8	10	12	55	198	100	30	16	12	8.5
23	7.9	8.3	7.8	11	12	49	286	95	30	16	11	8.5
24	8.2	8.4	7.8	11	11	45	390	93	29	16	11	8.4
25	8.0	8.3	7.8	11	12	45	430	94	28	16	11	8.4
26	7.8	8.4	6.9	11	12	52	397	97	27	15	11	8.4
27	7.8	8.2	8.1	11	12	62	293	99	26	15	11	8.4
28	7.8	8.1	8.2	11	12	77	218	99	26	14	11	8.4
29	8.0	8.1	8.1	11	-----	66	212	98	25	14	10	8.4
30	7.8	8.1	7.9	10	-----	74	267	91	24	14	10	8.4
31	7.8	-----	8.1	11	-----	101	-----	83	-----	14	10	-----
TOTAL	247.9	261.9	244.1	286.0	319.9	1,492	4,485	5,910	1,274	557	386	272.5
MEAN	8.00	8.73	7.87	9.23	11.4	48.1	150	191	42.5	18.0	12.5	9.08
MAX	8.6	11	8.4	12	13	101	430	348	76	23	15	10
MIN	7.8	7.8	6.9	6.0	9.9	13	53	83	24	14	10	8.4
AC=FT	492	519	484	567	635	2,960	8,900	11,720	2,530	1,100	766	541

CAL YR 1973 TOTAL 11,153.9 MEAN 30.6 MAX 309 MIN 6.9 AC=FT 22,120
WTR YR 1974 TOTAL 15,736.3 MEAN 43.1 MAX 430 MIN 6.0 AC=FT 31,210

BEAR RIVER BASIN

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10106000 Little Bear River near Paradise, Utah

LOCATION.--Lat 41°35'25", long 111°51'10", in SE¼ sec.20, T.10 N., R.1 E., Cache County, on right bank 1 mi (1.6 km) upstream from backwater of Hyrum Reservoir, 2 mi (3 km) northwest of Paradise, and 5 mi (8 km) downstream from East Fork.

DRAINAGE AREA.--198 mi² (513 km²), revised.

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (1,426.5 m) from topographic map. Prior to Nov. 28, 1945, at site 150 ft (46 m) upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft (0.46 m) higher.

AVERAGE DISCHARGE.--37 years, 90.3 ft³/s (2.557 m³/s) 65,420 acre-ft/yr (80.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 787 ft³/s (22.3 m³/s) May 9 (gage height, 6.42 ft or 1.957 m); maximum gage height, 6.72 ft (2.048 m) Mar. 2; minimum daily discharge, 42 ft³/s (1.19 m³/s) Aug. 20.
Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Feb. 11, 1962 (gage height, 6.52 ft or 1.987 m); from rating curve extended above 600 ft³/s (17.0 m³/s); minimum, 4 ft³/s (0.11 m³/s) Aug. 14, 1940.

REMARKS.--Records good. Diversions above station for irrigation of about 10,000 acres (40.5 km²), most of which is below station. Flow regulated slightly by trout farm about 2 mi (3 km) upstream and by Porcupine Reservoir, capacity, 12,800 acre-ft (15.8 hm³), completed 1962. No diversion between station and Hyrum Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	62	64	60	75	85	168	539	242	55	55	48
2	60	57	67	60	69	348	245	655	220	57	55	48
3	60	54	64	60	67	231	175	688	202	55	55	48
4	62	54	64	60	66	144	182	627	206	51	54	46
5	60	52	60	60	67	125	256	618	224	51	52	47
6	60	54	60	65	62	135	260	641	231	51	52	48
7	60	57	62	65	64	202	245	655	188	51	54	49
8	66	66	64	65	59	216	249	707	182	52	52	49
9	71	60	60	65	62	192	268	730	156	52	54	49
10	73	59	57	65	62	182	271	716	147	54	52	48
11	73	57	60	65	66	195	283	613	141	54	52	49
12	71	62	60	65	59	227	340	544	115	55	51	51
13	69	73	62	65	60	256	279	459	110	57	49	49
14	67	69	60	67	59	202	286	392	105	59	51	48
15	57	66	57	66	59	256	309	344	91	55	48	46
16	55	64	60	69	60	290	305	309	83	55	47	46
17	55	60	62	96	62	309	309	305	81	54	43	46
18	55	69	62	91	60	309	317	309	73	54	44	46
19	57	69	55	89	66	171	325	294	57	57	43	44
20	55	62	55	96	66	138	348	329	62	52	42	46
21	55	62	60	83	59	110	302	305	59	57	46	47
22	55	60	60	66	62	107	336	262	59	60	44	48
23	57	57	60	73	62	100	384	238	60	60	46	49
24	60	59	60	69	64	98	421	242	52	54	48	49
25	57	59	60	67	62	115	429	268	55	55	47	51
26	55	59	54	67	62	144	429	294	48	57	47	51
27	55	60	55	66	62	185	356	332	48	54	46	51
28	57	60	73	67	64	249	313	356	55	51	48	51
29	59	62	71	66	-----	178	290	336	54	54	48	51
30	57	62	71	66	-----	216	332	313	59	54	48	57
31	57	-----	62	67	-----	209	-----	268	-----	55	49	-----
TOTAL	1,874	1,826	1,901	2,151	1,767	5,924	9,012	13,688	3,465	1,692	1,522	1,456
MEAN	60.5	60.9	61.3	69.4	63.1	191	300	442	116	54.6	49.1	48.5
MAX	73	73	73	96	75	348	429	730	242	60	55	57
MIN	55	52	54	60	59	85	168	238	48	51	42	44
AC-FT	3,720	3,620	3,770	4,270	3,500	11,750	17,880	27,150	6,870	3,360	3,020	2,890

CAL YR 1973 TOTAL 40,464 MEAN 111 MAX 498 MIN 43 AC-FT 80,260
WTR YR 1974 TOTAL 46,278 MEAN 127 MAX 730 MIN 42 AC-FT 91,790

BEAR RIVER BASIN

10107000 Hyrum Reservoir near Hyrum, Utah

LOCATION.--Lat 41°37'30", long 111°52'30", in SE¼NE¼ sec.7, T.10 N., R.1 E., Cache County, at Hyrum Dam on Little Bear River, 1 mi (1.6 km) southwest of Hyrum.

DRAINAGE AREA.--217 mi² (562 km²), revised.

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Mercury indicating gage. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents observed, 14,900 acre-ft (18.4 hm³) June 15-17, elevation, 4,671.2 ft (1,423.78 m); minimum observed, 6,080 acre-ft (7.50 hm³) Sept. 21-26.

Period of record: Maximum contents observed, 16,290 acre-ft (20.1 hm³) May 20, 1967, elevation, 4,674.1 ft (1,424.67 m); no contents Oct. 16 to about Dec. 12, 1957, when reservoir was drained for inspection.

REMARKS.--Reservoir is formed by earthfill dam; storage began in 1935. Usable capacity, 15,280 acre-ft (18.8 hm³) between elevations 4,629.6 ft (1,411.10 m), sill of outlet canal, and 4,672 ft (1,424.03 m), top of spillway gates. Dead storage below sill of outlet canal, 3,405 acre-ft (4.20 hm³). Elevation of spillway crest, 4,660 ft (1,420.37 m). Water used for irrigation on Hyrum project. Figures given herein represent usable contents; those published in annual reports prior to 1946 represent total contents.

COOPERATION.--Capacity table furnished by Bureau of Reclamation. Elevations May to September furnished by superintendent of Hyrum Dam.

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

4,632	490	4,655	7,780
4,635	1,200	4,660	9,840
4,640	2,570	4,665	12,030
4,645	4,130	4,670	14,340
4,650	5,860	4,674	16,240

CONTENTS, IN ACRE-FEET, AT 1200, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,480	10,520	10,520	10,520		10,520	11,090	11,810	12,850	12,710	9,370	6,680
2								12,030	12,900	12,580	9,290	6,650
3								12,210	12,990	12,390	9,160	6,610
4								12,300	13,130	12,210	9,040	6,570
5								12,350	13,310	12,300	8,910	6,530
6								12,390	13,540	11,850	8,830	6,530
7								12,440	13,780	11,670	8,710	6,490
8								12,530	13,960	11,490	8,630	6,460
9								12,530	14,150	11,310	8,500	6,420
10								12,580	14,290	11,140	8,340	6,380
11								12,530	14,480	11,000	8,220	6,340
12								12,390	14,670	10,830	8,100	6,310
13								12,210	14,760	10,700	8,060	6,270
14								12,030	14,860	10,570	8,060	6,230
15								11,810	14,900	10,480	8,020	6,190
16								11,630	14,900	10,390	7,940	6,190
17								11,490	14,900	10,350	7,860	6,160
18								11,400	14,810	10,350	7,740	6,120
19								11,270	14,760	10,350	7,660	6,120
20								11,220	14,580	10,310	7,540	6,120
21								11,220	14,430	10,220	7,420	6,080
22								11,220	14,290	10,180	7,340	6,080
23								11,140	14,150	10,140	7,260	6,080
24								11,050	13,960	10,050	7,180	6,080
25								11,050	13,820	9,960	7,110	6,080
26								11,270	13,640	9,880	7,030	6,080
27								11,580	13,450	9,840	6,950	6,120
28					10,520			11,940	13,310	9,790	6,880	6,160
29					-----			12,260	13,080	9,710	6,840	6,190
30		10,520	10,520		-----		11,670	12,530	12,900	9,540	6,760	6,190
31	10,520	-----		10,520	-----	11,050	-----	12,710	-----	9,460	6,720	-----
MAX								12,710	14,900	12,710	9,370	6,680
MIN								11,050	12,850	9,460	6,720	6,080
(+)	4661.6	4661.6	4661.6	4661.6	4661.6	4662.8	4664.2	4666.5	4666.9	4659.1	4652.3	4650.9
(#)	+40	0	0	0	0	+530	+620	+1,040	+190	-3,440	-2,740	-530

CAL YR 1973.....# -90
WTR YR 1974.....# -4,290

† Elevation, in feet, at end of month.

Change in contents, in acre-feet.

BEAR RIVER BASIN

173

10107500 Little Bear River near Hyrum, Utah

LOCATION.--Lat 41°38'00", long 111°53'00", in NE¼SW¼ sec.6, T.10 N., R.1 E., Cache County, on left bank 2,000 ft (610 m) upstream from road bridge, 1 mi (1.6 km) downstream from Hyrum Dam, and 1.5 mi (2.4 km) west of Hyrum.

DRAINAGE AREA.--218 mi² (565 km²), revised.

PERIOD OF RECORD.--October 1938 to February 1974 (discontinued).

GAGE.--Water-stage recorder and concrete control since July 18, 1962. Altitude of gage is 4,520 ft (1,378 m) from topographic map. Prior to Nov. 9, 1949, at site 1,200 ft (366 m) downstream at different datum.

EXTREMES.--Maximum discharge during period October 1973 to February 1974, 94 ft³/s (2.66 m³/s) Jan. 20, 21 (gage height, 1.54 ft or 0.469 m); minimum daily, 56 ft³/s (1.59 m³/s) Jan. 4.
Period of record: Maximum discharge, 986 ft³/s (27.9 m³/s) Apr. 30, 1952, gage height, 4.54 ft or 1.384 m; minimum daily, 0.20 ft³/s (0.006 m³/s) at times.

REMARKS.--Records excellent. Diversions above station for irrigation of about 10,000 acres (40.5 km²) above and about 7,600 acres (30.8 km²) below station. Flow regulated by Hyrum Reservoir 1 mi (1.6 km) upstream. (See sta 10107000.)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	64	66	68	74	68						
2	64	65	69	62	74							
3	62	64	69	57	73							
4	62	64	69	56	71							
5	61	64	68	60	72							
6	60	64	67	65	71							
7	59	64	66	67	70							
8	61	66	66	68	69							
9	63	67	66	66	68							
10	66	66	65	65	67							
11	69	65	64	65	66							
12	72	66	66	65	66							
13	71	70	66	66	66							
14	72	72	66	66	66							
15	71	72	65	66	66							
16	69	71	64	68	66							
17	66	70	65	73	68							
18	65	71	67	82	68							
19	64	72	66	86	71							
20	64	71	64	91	72							
21	63	70	64	92	69							
22	62	68	64	87	69							
23	62	67	65	83	69							
24	64	66	65	81	66							
25	64	65	65	78	65							
26	62	65	64	77	66							
27	62	65	63	75	66							
28	62	64	68	73	66							
29	62	64	71	72	-----							
30	62	65	73	71	-----							
31	62	-----	72	71	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	1,993	2,007	2,058	2,222	1,920							
MEAN	64.3	66.9	66.4	71.7	68.6							
MAX	72	72	73	92	74							
MIN	59	64	63	56	65							
AC=FT	3,950	3,980	4,080	4,410	3,810							

BEAR RIVER BASIN

10108400 Logan, Hyde Park & Smithfield Canal at head, near Logan, Utah

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¼NE¼ sec.31, T.12 N., R.2 E., Cache County, Cache National Forest, on left bank 487 ft (148 m) downstream from head and 3.8 mi (6.1 km) east of Logan.

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

GAGE.--Water-stage recorder and 8-ft (2.448 m) concrete Parshall flume. Datum of gage is 4,857.66 ft (1,480.615 m) above mean sea level (Bureau of Public Roads bench mark).

AVERAGE DISCHARGE.--11 years, 25.7 ft³/s (0.728 m³/s) 18,620 acre-ft/yr (23.0 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 111 ft³/s (3.14 m³/s) May 23, 1963, May 28, 1966; no flow at times most years.

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	3.4	8.3	5.6	5.4	4.7	1.3	35	67	101	79	74
2	18	8.8	8.3	5.6	5.2	4.7	1.2	36	67	108	79	74
3	17	8.6	8.3	5.6	5.2	4.4	1.0	37	67	107	79	74
4	17	8.6	8.3	5.6	5.2	4.6	1.0	37	67	106	78	69
5	17	8.6	8.3	5.6	5.0	4.7	1.0	40	46	105	78	66
6	17	8.6	8.3	5.6	4.8	4.7	1.0	51	32	105	78	66
7	17	8.6	8.3	5.6	4.8	4.7	1.0	51	32	104	78	65
8	17	8.6	8.3	5.6	4.8	4.6	1.1	52	31	103	78	65
9	17	8.6	7.8	5.6	4.9	4.6	1.1	50	30	102	78	65
10	15	8.6	6.0	5.6	4.9	4.7	1.0	33	30	101	77	65
11	15	8.6	6.0	5.6	4.9	4.7	1.0	41	36	101	77	65
12	15	8.6	6.0	5.6	4.9	4.7	0	71	72	100	77	65
13	15	8.5	6.0	5.6	4.9	4.7	0	71	77	99	76	65
14	15	8.6	6.0	5.6	4.9	4.7	0	70	86	98	76	65
15	15	8.4	6.0	5.6	4.9	4.7	1.1	69	70	98	76	65
16	15	8.3	6.0	5.6	4.9	4.4	5.0	69	55	98	75	65
17	15	8.3	6.0	5.6	4.9	4.1	4.3	69	70	97	75	65
18	15	8.3	6.0	5.6	4.9	4.0	2.9	70	87	96	75	65
19	15	8.3	6.0	5.6	4.8	3.9	2.4	71	86	95	75	65
20	15	8.3	6.0	5.6	4.7	3.7	2.1	71	91	81	75	65
21	15	8.3	6.0	5.6	4.7	3.7	1.9	69	82	16	75	58
22	15	8.3	6.0	5.6	4.7	3.7	6.1	69	82	53	75	47
23	15	8.3	6.0	5.6	4.7	3.7	17	68	79	77	75	47
24	15	8.2	5.9	5.6	4.7	3.7	16	68	92	82	75	47
25	15	8.2	5.8	5.6	4.7	3.7	16	70	102	81	74	47
26	15	8.3	5.8	5.5	4.7	3.7	16	69	101	81	74	47
27	15	8.3	5.8	5.4	4.7	3.7	16	55	101	81	81	47
28	14	8.3	5.7	5.4	4.8	3.7	15	43	100	80	84	37
29	14	8.3	5.7	5.4	-----	2.9	15	45	99	80	78	30
30	14	8.3	5.7	5.4	-----	1.6	20	60	98	80	74	30
31	11	-----	5.7	5.4	-----	1.3	-----	67	-----	80	74	-----
TOTAL	478	248.0	204.3	172.5	136.6	125.4	168.5	1,777	2,135	2,796	2,378	1,770
MEAN	15.4	8.27	6.59	5.56	4.88	4.05	5.62	57.3	71.2	90.2	76.7	59.0
MAX	18	8.8	8.3	5.6	5.4	4.7	20	71	102	108	84	74
MIN	11	3.4	5.7	5.4	4.7	1.3	0	33	30	16	74	30
AC-FT	948	492	405	342	271	249	334	3,520	4,230	5,550	4,720	3,510
CAL YR 1973	TOTAL	9,400.30	MEAN	25.8	MAX	103	MIN	.84	AC-FT	18,650		
WTR YR 1974	TOTAL	12,389.30	MEAN	33.9	MAX	108	MIN	0	AC-FT	24,570		

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LOCATION.--Lat 41°44'40", long 111°47'00", in NE¼ sec.36, T.12 N., R.1 E., Cache County, on right bank at Logan plant of Utah Power & Light Co. (abandoned), 0.5 mi (0.8 km) upstream from State dam, and 2.5 mi (4.0 km) east of Logan.

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records if records for Utah Power & Light Co.'s tailrace near Logan are added. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft (1,426 m) from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi (0.8 km) downstream, below confluence of tailrace, at different datums. May 7 to Sept. 30, 1913, water-stage recorder at present site at different datums and Oct. 1, 1913 to Sept. 3, 1938, at datum about 2.3 ft (0.70 m) lower than present datum.

AVERAGE DISCHARGE.--61 years (1913-74), 118 ft³/s (3.342 m³/s) 85,490 acre-ft/yr (105 hm³/yr). Average combined discharge of Logan River above State dam and Logan, Hyde Park & Smithfield Canal, 78 years (1896-1974), 275 ft³/s (7.788 m³/s) 199,200 acre-ft/yr (246 hm³/yr). See REMARKS.

EXTREMES (River only).--Current year: Maximum discharge, 1,320 ft³/s (37.4 m³/s) June 6 (gage height, 5.54 ft or 1.689 m); minimum daily, 78 ft³/s (2.21 m³/s) Jan. 2.
Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Mar. 21, 1916, gage height, 5.6 ft or 1.71 m, datum then in use, from rating curve extended above 1,000 ft/s (28.3 m³/s); minimum daily, 6 ft³/s (0.17 m³/s) Nov. 7, 1940.
(Combined flow, Logan River above State dam and Logan, Hyde Park & Smithfield Canal).--Current year: Maximum discharge, 1,350 ft³/s (38.2 m³/s) June 6; minimum daily, 84 ft³/s (2.38 m³/s) Jan. 2.
Period of record: Maximum observed discharge, 2,480 ft³/s (70.2 m³/s) May 24, 1907; minimum daily, 50 ft³/s (1.42 m³/s) Jan. 21, 1935.

REMARKS.--Records good. Water diverted from river and springs above station for power, irrigation, and municipal supply. Flow regulated by Logan City powerplant above station. For records of combined flow of Logan River and Logan, Hyde Park & Smithfield Canal, see following page. Combined flow record excludes that in Logan City culinary pipe lines. During 1963 site of gaging station for Logan, Hyde Park & Smithfield Canal was changed; records of combined flow since that time are equivalent to previous records. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station was discontinued.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	133	111	85	105	101	186	427	1,010	550	230	165
2	129	121	114	78	101	118	186	520	1,010	520	227	165
3	127	114	111	83	101	114	174	576	1,030	503	227	163
4	125	116	112	105	99	109	167	584	1,060	482	224	165
5	125	114	109	111	105	107	160	651	1,200	461	215	163
6	123	120	109	104	97	111	163	735	1,230	444	213	160
7	121	123	112	105	96	111	165	802	1,120	431	215	158
8	118	131	111	104	93	112	169	915	993	411	215	156
9	121	125	105	102	96	112	186	984	890	395	210	154
10	118	121	104	105	96	112	199	1,020	855	379	210	149
11	120	118	111	105	94	118	186	865	865	368	202	152
12	118	121	112	107	96	120	204	816	870	350	202	152
13	116	127	112	107	101	127	189	778	920	339	196	152
14	118	129	111	105	97	125	181	735	945	332	194	152
15	118	123	109	107	99	131	191	683	988	325	194	152
16	120	121	107	105	99	137	207	624	1,010	328	191	152
17	120	121	111	109	101	145	238	633	1,000	318	191	149
18	120	121	109	109	97	167	291	706	975	308	184	149
19	118	123	102	111	102	167	308	740	955	301	181	149
20	118	118	102	111	101	160	318	749	930	314	181	152
21	118	116	105	109	93	153	285	665	900	361	184	154
22	118	118	107	101	101	149	304	615	860	308	181	163
23	118	114	109	105	94	149	372	593	826	281	179	163
24	118	118	104	105	94	145	465	593	783	273	177	163
25	114	114	105	104	96	143	541	669	740	269	172	158
26	112	114	102	107	99	147	606	778	702	256	174	156
27	111	114	102	102	99	154	524	960	669	253	167	158
28	109	112	112	104	101	172	448	1,120	633	250	163	160
29	112	114	109	104	-----	172	395	1,150	597	244	165	165
30	111	114	109	102	-----	174	383	1,060	576	244	165	160
31	114	-----	101	104	-----	199	-----	1,030	-----	235	163	-----
TOTAL	3,677	3,588	3,349	3,205	2,753	4,261	8,391	23,776	27,142	10,833	5,992	4,709
MEAN	119	120	108	103	98.3	137	280	767	905	349	193	157
MAX	129	133	114	111	105	199	606	1,150	1,230	550	230	165
MIN	109	112	101	78	93	101	160	427	576	235	163	149
AC-FT	7,290	7,120	6,640	6,360	5,460	8,450	16,640	47,160	53,840	21,490	11,890	9,340
CAL YR 1973	TOTAL	69,719	MEAN	191	MAX	855	MIN	101	AC-FT	138,300		
WTR YR 197												

BEAR RIVER BASIN

10109000 Logan River above State dam, near Logan, Utah--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM
AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH,
WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	136	119	91	110	106	187	462	1,080	651	309	239
2	147	130	122	84	106	123	187	556	1,080	628	306	239
3	144	123	119	89	106	118	175	613	1,100	610	306	237
4	142	125	120	111	104	114	168	621	1,130	588	302	234
5	142	123	117	117	110	112	161	691	1,250	566	293	229
6	140	129	117	110	102	116	164	786	1,260	549	291	226
7	138	132	120	111	101	116	166	853	1,150	535	293	223
8	135	140	119	110	98	117	170	967	1,020	514	293	221
9	138	134	113	108	101	117	187	1,030	920	497	288	219
10	133	130	110	111	101	117	200	1,050	885	480	287	214
11	135	127	117	111	99	123	187	906	901	469	279	217
12	133	130	118	113	101	125	204	887	942	450	279	217
13	131	136	118	113	106	132	189	849	997	438	272	217
14	133	138	117	111	102	130	181	805	1,030	430	270	217
15	133	131	115	113	104	136	192	752	1,060	423	270	217
16	135	129	113	111	104	141	212	693	1,060	426	266	217
17	135	129	117	115	106	149	242	702	1,070	415	266	214
18	135	129	115	115	102	171	294	776	1,060	404	259	214
19	133	131	108	117	107	171	310	811	1,040	396	256	214
20	133	126	108	117	106	164	320	820	1,020	395	256	217
21	133	124	111	115	98	157	287	734	982	377	259	212
22	133	126	113	107	106	153	310	684	942	361	256	210
23	133	122	115	111	99	153	389	661	905	358	254	210
24	133	126	110	111	99	149	481	661	875	355	252	210
25	129	122	111	110	101	147	557	739	842	350	246	205
26	127	122	108	112	104	151	622	847	803	337	248	203
27	126	122	108	107	104	158	540	1,020	770	334	248	205
28	123	120	118	109	106	176	463	1,160	733	330	247	197
29	126	122	115	109	-----	175	410	1,200	696	324	243	195
30	125	122	115	107	-----	176	403	1,120	674	324	239	190
31	125	-----	107	109	-----	200	-----	1,100	-----	315	237	-----
TOTAL	4,155	3,836	3,553	3,385	2,893	4,393	8,558	25,556	29,277	13,629	8,370	6,479
MEAN	134	128	115	109	103	142	285	824	976	440	270	216
MAX	147	140	122	117	110	200	622	1,200	1,260	651	309	239
MIN	123	120	107	84	98	106	161	462	674	315	237	190
AC-FT	8,240	7,610	7,050	6,710	5,740	8,710	16,970	50,690	58,070	27,030	16,600	12,850
CAL YR 1973	TOTAL	79,120	MEAN	217	MAX	923	MIN	107	AC-FT	156,900		
WTR YR 1974	TOTAL	114,084	MEAN	313	MAX	1,260	MIN	84	AC-FT	226,300		

BEAR RIVER BASIN

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10113500 Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum, Utah

LOCATION.--Lat 41°37'18", long 111°44'22", in NE¼ sec.8, T.10 N., R.2 E., Cache County, on right bank 0.8 mi (1.3 km) upstream from diversion dam, 3.2 mi (5.1 km) upstream from powerplant of Utah Power & Light Co., and 6 mi (9.7 km) east of Hyrum.

DRAINAGE AREA.--268 mi² (694 km²), revised.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft (1,524.183 m) above mean sea level, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft (305 m) upstream at different datum.

AVERAGE DISCHARGE.--61 years, 128 ft³/s (3.625 m³/s) 92,740 acre-ft/yr (114 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 773 ft³/s (21.9 m³/s) Apr. 26 (gage height, 4.89 ft or 1.490 m); minimum daily, 68 ft³/s (1.93 m³/s) Jan. 4.

Period of record: Maximum discharge, 1,620 ft³/s (45.9 m³/s) May 15, 1917, gage height, 6.5 ft or 1.98 m, from flood marks, site and datum then in use, from rating curve extended above 800 ft³/s (22.7 m³/s); minimum daily, 29 ft³/s (0.82 m³/s) Jan. 3, 1935.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres (809,000 m²) above station. Flow is slightly regulated by powerplant above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	100	98	95	94	90	219	544	316	188	161	130
2	109	94	98	95	92	124	219	607	306	188	161	130
3	109	94	96	80	90	140	202	616	295	188	161	130
4	109	94	96	68	90	130	192	556	290	186	161	130
5	109	94	96	95	94	122	186	571	293	188	159	130
6	107	94	94	100	90	122	186	586	301	181	153	130
7	107	98	94	100	88	126	183	592	288	181	155	128
8	105	103	94	96	88	130	186	613	280	181	155	128
9	109	98	94	94	90	132	202	616	267	181	155	126
10	109	96	94	94	90	138	219	601	256	181	153	126
11	105	96	94	94	90	145	209	524	249	179	151	126
12	105	98	94	94	92	149	228	489	244	179	151	126
13	105	100	94	94	92	166	214	460	241	176	151	126
14	103	100	94	94	90	168	204	431	238	176	149	126
15	103	98	94	92	90	190	209	402	236	176	149	126
16	100	98	92	92	90	216	226	380	234	176	145	126
17	100	98	96	94	92	226	249	369	231	176	142	124
18	98	100	96	96	92	264	288	366	226	176	142	124
19	98	103	96	98	94	234	316	363	224	174	140	124
20	98	100	88	100	92	209	352	369	221	172	140	124
21	96	100	94	98	88	183	311	352	216	174	140	124
22	96	98	94	94	92	176	330	335	214	172	138	124
23	96	98	94	96	90	168	417	319	211	172	138	124
24	98	98	92	96	90	161	504	311	204	170	138	124
25	94	98	92	94	90	166	601	319	199	168	136	124
26	94	96	88	94	92	181	704	335	197	168	134	124
27	92	96	90	94	92	186	613	346	195	166	132	126
28	92	96	100	94	90	214	507	363	195	166	130	126
29	90	94	96	94	-----	195	449	369	190	164	130	124
30	90	94	96	92	-----	211	483	352	188	164	130	124
31	90	-----	90	92	-----	246	-----	332	-----	164	130	-----
TOTAL	3,125	2,924	2,918	2,903	2,544	5,308	9,408	13,788	7,245	5,451	4,510	3,784
MEAN	101	97.5	94.1	93.6	90.9	171	314	445	242	176	145	126
MAX	109	103	100	100	94	264	704	616	316	188	161	130
MIN	90	94	88	68	88	90	183	311	188	164	130	124
AC-FT	6,200	5,800	5,790	5,760	5,050	10,530	18,660	27,350	14,370	10,810	8,950	7,510

CAL YR 1973 TOTAL 50,865 MEAN 139 MAX 420 MIN 88 AC-FT 100,900
WTR YR 1974 TOTAL 63,908 MEAN 175 MAX 704 MIN 68 AC-FT 126,800

PEAK DISCHARGE (BASE, 140 cfs)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-18	1200	3.27	275	5-3	0230	4.49	655
4-26	0700	4.89	773				

BEAR RIVER BASIN

10115200 Logan River below Blacksmith Fork, near Logan, Utah

LOCATION.--Lat 41°43'15", long 111°53'08", in NE¼SW¼ sec.6, T.11 N., R.1 E., Cache County, on left bank 20 ft (6 m) below County Highway bridge, 2.7 mi (4.3 km) west of Logan, and 3.5 mi (5.6 km) downstream from mouth of Blacksmith Fork.

DRAINAGE AREA.--531 mi² (1,375 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 4,420.99 ft (1,347.518 m) above mean sea level (levels by Corp of Engineers). Prior to Aug. 16, 1973, at datum 0.86 ft (0.262 m) higher.

AVERAGE DISCHARGE.--10 years, 322 ft³/s (9.119 m³/s) 233,300 acre-ft/yr (288 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,840 ft³/s (52.1 m³/s) Apr. 26 (gage height, 5.03 ft or 1.533 m, from Dahman indicator); minimum daily, 56 ft³/s (1.59 m³/s) Aug. 29.
Period of record: Maximum discharge, 1,980 ft³/s (56.1 m³/s) May 16, 1971 (gage height, 4.84 ft or 1.475 m); minimum, 2.4 ft³/s (0.068 m³/s) July 15, 1966.

REMARKS.--Records good. Diversions for irrigation of several thousand acres above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	228	215	206	256	242	442	777	1,080	351	96	63
2	206	216	217	198	245	323	463	979	1,050	332	90	64
3	200	207	213	185	236	320	428	1,130	1,080	329	96	64
4	199	211	216	215	234	296	403	1,030	1,070	305	96	64
5	194	212	216	211	237	282	385	1,110	1,210	306	93	70
6	197	218	212	232	232	303	387	1,160	1,440	264	95	80
7	195	223	211	234	226	331	385	1,150	1,290	248	91	73
8	209	238	214	230	218	316	389	1,220	1,160	233	90	76
9	215	229	227	223	220	306	406	1,360	991	216	82	80
10	210	221	225	234	219	303	451	1,500	910	200	77	77
11	203	217	222	236	218	312	454	1,260	893	189	79	74
12	202	222	230	231	220	315	480	1,030	888	184	82	82
13	200	238	227	230	221	333	451	932	911	170	87	90
14	202	239	227	229	221	337	421	825	940	162	87	95
15	201	232	225	226	220	353	419	726	951	174	96	117
16	200	226	220	229	219	385	448	613	957	203	99	122
17	198	225	226	249	225	405	490	580	958	176	98	132
18	196	238	231	253	221	462	592	623	891	168	98	137
19	195	238	224	262	231	452	660	666	840	157	91	138
20	193	228	212	266	231	418	748	728	772	141	83	141
21	194	224	216	254	221	384	650	702	741	193	70	144
22	192	227	220	241	227	373	687	632	693	162	73	150
23	193	222	220	238	221	361	864	577	647	143	71	150
24	195	223	216	238	213	347	1,070	540	587	146	67	158
25	196	221	215	234	219	343	1,300	577	533	167	69	144
26	192	221	211	236	220	356	1,530	666	497	136	71	134
27	192	219	209	230	222	365	1,270	861	452	124	64	132
28	189	214	233	228	223	407	951	1,140	415	120	57	138
29	189	214	230	228	-----	417	747	1,260	384	113	56	139
30	191	214	232	226	-----	414	727	1,230	360	106	59	139
31	190	-----	217	231	-----	473	-----	1,150	-----	101	62	-----
TOTAL	6,135	6,705	6,829	7,163	6,316	11,034	19,098	28,734	25,591	6,019	2,525	3,267
MEAN	198	224	220	231	226	356	637	927	853	194	81.5	109
MAX	215	239	233	266	256	473	1,530	1,500	1,440	351	99	158
MIN	189	207	209	185	213	242	385	540	360	101	56	63
AC-FT	12,170	13,300	13,550	14,210	12,530	21,890	37,880	56,990	50,760	11,940	5,010	6,480
CAL YR 1973	TOTAL	90,789.8	MEAN	249	MAX	892	MIN	5.4	AC-FT	180,100		
WTR YR 1974	TOTAL	129,416.0	MEAN	355	MAX	1,530	MIN	56	AC-FT	256,700		

BEAR RIVER BASIN

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10117000 Hammond (East Side) Canal near Collinston, Utah

LOCATION.--Lat 41°49'51", long 112°03'24", in SE¼ sec.27, T.13 N., R.2 W., Box Elder County, on right bank 3,600 ft (1,097 m) downstream from Cutler Dam and 4 mi (6 km) north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collinston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--62 years, 51.2 ft³/s (1.450 m³/s) 37,090 acre-ft/yr (45.7 hm³/yr).

EXTREMES.--Maximum daily discharge, 184 ft³/s (5.21 m³/s) June 29, 1963; no flow at times in each year.

REMARKS.--Records good. Canal diverts from east side of Bear River in NW¼SW¼ sec.26 T.13 N., R.2 W., at dam at which West Side Canal and intake of Cutler powerplant also divert. Water from this canal and West Side Canal used for irrigation of about 58,000 acres (235 km²) below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 5 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	6.0					0	79	140	165	146	131
2	22	0					0	67	147	164	146	127
3	22	0					0	74	148	163	148	125
4	22	0					0	79	147	164	147	122
5	22	0					0	88	138	165	147	125
6	20	0					0	100	127	165	148	124
7	20	0					0	125	125	164	148	122
8	20	0					0	134	117	162	148	115
9	22	0					0	146	118	159	148	112
10	22	0					0	148	118	158	148	112
11	22	0					0	148	125	159	148	112
12	22	0					0	145	133	158	148	108
13	22	0					0	147	145	158	148	107
14	22	0					0	147	150	157	148	108
15	19	0					0	145	155	154	148	105
16	17	0					0	148	158	155	148	101
17	17	0					0	146	161	150	149	99
18	16	0					0	148	154	150	148	99
19	16	0					0	149	166	148	148	99
20	17	0					0	134	166	146	149	100
21	17	0					0	112	166	144	148	99
22	17	0					0	111	166	133	149	99
23	17	0					0	109	165	144	148	99
24	17	0					0	118	167	141	148	96
25	17	0					0	124	165	137	146	96
26	17	0					0	125	166	146	140	97
27	17	0					0	131	167	153	139	96
28	16	0					0	134	165	153	140	94
29	16	0					0	134	165	152	139	89
30	17	0					0	134	165	152	137	88
31	16	-----					-----	.80	134	165	152	137
								133	-----	149	136	-----
TOTAL	595	6.0	0	0	0	0	.80	3,862	4,495	4,768	4,526	3,206
MEAN	19.2	.20	0	0	0	0	.027	125	150	154	146	107
MAX	29	6.0	0	0	0	0	.80	149	167	165	149	131
MIN	16	0	0	0	0	0	0	67	117	133	136	88
AC-FT	1,180	12	0	0	0	0	1.6	7,660	8,920	9,460	8,980	6,360
CAL YR 1973	TOTAL	18,271.00	MEAN	50.1	MAX	174	MIN	0	AC-FT	36,240		
WTR YR 1974	TOTAL	21,458.80	MEAN	58.8	MAX	167	MIN	0	AC-FT	42,560		

BEAR RIVER BASIN

10117500 West Side Canal near Collinston, Utah

LOCATION.--Lat 41°49'55", long 112°03'36", in SW¼ sec.27, T.13 N., R.2 W., Box Elder County, on left bank 4,200 ft (1,280 m) downstream from Cutler Dam and 4 mi (6.4 km) north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--62 years, 243 ft³/s (6.882 m³/s) 176,100 acre-ft/yr (217 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 763 ft³/s (21.6 m³/s) July 11, 1967; no flow for periods in every year except 1914.

REMARKS.--Records excellent. Canal diverts from west side of Bear River in NE¼SE¼ sec.27, T.13 N., R.2 W., at dam at which Hammond (East Side) Canal and intake of Cutler powerplant also divert. Water from this canal and Hammond (East Side) Canal used for irrigation of about 58,000 acres (235 km²) below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 8 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	104	87	75	71	45		171	703	759	689	691
2	177	104	87	75	70	44		194	703	759	697	677
3	177	104	87	75	70	44		269	701	755	691	669
4	177	104	86	75	70	44		334	703	753	681	661
5	175	103	86	75	70	38		340	666	755	677	653
6	176	103	85	75	71	30		427	615	757	673	643
7	175	103	85	75	71	29		474	599	757	675	639
8	176	103	85	75	70	28		532	565	755	673	637
9	176	103	85	75	69	28		627	563	755	697	632
10	176	103	84	75	69	27		679	565	757	701	620
11	175	102	81	75	69	26		685	590	747	685	615
12	175	103	80	75	68	26		669	639	747	675	594
13	175	102	80	75	68	26		661	679	739	681	565
14	175	97	80	75	68	26		661	701	727	687	548
15	157	97	80	75	68	23		667	709	715	691	550
16	140	96	79	75	66	13		681	711	715	701	539
17	140	96	78	75	65	13		679	721	709	699	529
18	139	96	78	75	64	6.0		661	741	707	699	527
19	140	95	78	75	65	0		681	741	713	699	527
20	139	95	78	75	55	0		596	743	705	699	527
21	140	94	78	75	64	0		489	745	683	695	527
22	139	94	78	75	56	0		512	747	667	685	527
23	139	94	78	74	45	0		565	741	663	679	527
24	137	94	77	72	45	0		563	741	659	681	533
25	137	94	76	72	45	0		575	739	671	681	542
26	127	94	76	71	45	0		588	741	681	681	537
27	120	94	76	70	45	0		616	745	675	681	526
28	120	93	77	70	45	0		675	753	681	681	520
29	119	87	77	70	-----	0		691	757	679	681	520
30	115	86	77	70	-----	0		701	759	675	685	520
31	104	-----	76	71	-----	0	-----	701	-----	677	691	-----
TOTAL	4,716	2,937	2,495	2,290	1,757	516.0	0	17,364	20,826	22,197	21,291	17,322
MEAN	152	97.9	80.5	73.9	62.8	16.6	0	560	694	716	687	577
MAX	177	104	87	75	71	45	0	701	759	759	701	691
MIN	104	86	76	70	45	0	0	171	563	659	673	520
AC-FT	9,350	5,830	4,950	4,540	3,490	1,020	0	34,440	41,310	44,030	42,230	34,360
CAL YR 1973	TOTAL	98,146.20	MEAN	269	MAX	735	MIN	0	AC-FT	194,700		
WTR YR 1974	TOTAL	113,711.00	MEAN	312	MAX	759	MIN	0	AC-FT	225,500		

BEAR RIVER BASIN

181

10118000 Bear River near Collinston, Utah

LOCATION.--Lat 41°50'03", long 112°03'16", in NW¼SE¼ sec.27, T.13 N., R.2 W., Box Elder County, on right bank 800 ft (244 m) downstream from Cutler plant of Utah Power & Light Co., 2,000 ft (610 m) downstream from Cutler Dam, and 5.5 mi (8.8 km) north of Collinston.

DRAINAGE AREA.--6,267 mi² (16,232 km²), revised.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft (1,303.364 m) above mean sea level (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi (1.3 km) downstream at different datums.

EXTREMES.--Current year: Maximum discharge, 3,960 ft³/s (112 m³/s) Mar. 21, June 8 (gage height, 4.77 ft or 1.454 m); minimum daily, 192 ft³/s (5.44 m³/s) Aug. 17.
Period of record: Maximum discharge observed, 11,600 ft³/s (329 m³/s) June 7-10, 1909 (gage height, 7.70 ft or 2.34 m, site and datum then in use); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

REMARKS.--Records excellent. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Eleven discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,120	1,100	1,190	1,470	2,030	2,320	3,190	3,820	3,110	797	390	713
2	1,720	1,770	1,570	1,300	2,570	2,990	3,140	3,780	3,080	786	536	805
3	1,370	1,290	1,790	1,200	2,110	3,370	3,360	3,360	3,050	848	641	613
4	1,750	690	1,510	1,500	2,210	3,320	3,280	3,430	2,690	747	609	327
5	1,450	1,410	1,640	1,400	2,090	3,210	3,040	3,500	2,880	579	620	1,390
6	1,670	1,370	2,040	600	1,350	3,200	2,690	3,590	3,000	240	375	817
7	1,620	1,270	1,570	1,500	2,280	3,780	2,760	3,600	3,030	319	728	1,110
8	1,890	1,150	2,100	1,700	2,300	3,870	2,590	3,450	3,600	540	711	952
9	1,630	1,140	1,990	1,800	1,950	3,860	2,580	3,800	3,700	1,060	803	728
10	1,400	1,410	1,870	1,700	1,760	3,870	2,760	3,750	3,450	309	374	756
11	1,820	1,460	1,830	1,740	1,950	3,870	2,810	3,790	3,200	233	889	983
12	1,560	1,540	1,830	1,590	1,410	3,860	3,100	3,790	2,990	468	802	1,090
13	1,390	1,170	1,840	2,010	1,420	3,800	3,240	3,790	2,770	650	845	1,180
14	1,840	1,760	1,690	1,750	2,030	3,810	3,280	3,770	2,730	328	929	1,140
15	1,490	1,340	1,570	2,040	2,660	3,880	3,190	3,770	2,430	496	810	1,160
16	1,960	1,890	2,310	1,900	2,640	3,840	2,970	3,370	2,460	789	803	1,300
17	1,470	1,580	1,820	2,030	2,680	3,710	3,060	3,010	2,880	899	192	748
18	1,280	1,570	1,890	2,320	2,410	3,680	2,960	2,770	2,630	693	204	1,150
19	1,460	1,760	1,450	2,390	1,490	3,740	2,820	2,160	2,330	882	952	1,250
20	1,760	1,460	2,070	2,740	2,690	3,700	3,120	2,090	1,550	709	477	1,070
21	1,200	2,410	1,500	3,040	2,300	3,860	3,240	2,840	1,810	705	551	1,230
22	2,550	1,310	1,700	2,880	1,780	3,550	3,290	2,970	2,330	466	643	1,190
23	1,250	1,970	2,250	2,740	2,110	3,240	3,340	2,950	1,640	643	906	1,220
24	1,590	1,630	1,810	2,690	1,910	3,050	3,350	2,930	1,790	804	544	950
25	1,750	1,400	1,760	1,900	1,240	2,860	3,430	2,930	1,070	848	618	737
26	1,580	1,810	2,040	2,860	1,510	2,720	3,680	1,950	1,200	635	775	843
27	1,830	1,520	1,690	2,550	2,030	2,800	3,820	2,400	1,150	605	913	485
28	1,810	1,290	1,400	2,180	1,890	2,610	3,840	2,320	982	599	777	483
29	1,380	1,450	2,660	2,300	-----	2,970	3,840	2,210	806	480	423	563
30	963	2,510	1,610	1,670	-----	2,940	3,820	3,080	720	405	256	826
31	1,290	-----	2,060	2,260	-----	3,060	-----	3,110	-----	656	704	-----
TOTAL	49,843	45,430	56,050	61,750	56,800	105,340	95,590	98,080	71,058	19,218	19,800	27,809
MEAN	1,608	1,514	1,808	1,992	2,029	3,398	3,186	3,164	2,369	620	639	927
MAX	2,550	2,510	2,660	3,040	2,690	3,880	3,840	3,820	3,700	1,060	952	1,390
MIN	963	690	1,190	600	1,240	2,320	2,580	1,950	720	233	192	327
AC-FT	98,860	90,110	111,200	122,500	112,700	208,900	189,600	194,500	140,900	38,120	39,270	55,160
CAL YR 1973	TOTAL 623,349		MEAN 1,708		MAX 3,720		MIN 20		AC-FT 1,236,000			
WTR YR 1974	TOTAL 706,768		MEAN 1,936		MAX 3,880		MIN 192		AC-FT 1,402,000			

BEAR RIVER BASIN

10125600 Malad River near Plymouth, Utah

LOCATION.--Lat 41°50'19", long 112°08'49", in NE¼ sec.26, T.13 N., R.3 W., Box Elder County, on left bank 66 ft (20 m) above bridge on U.S. Highway 191 and 2.7 mi (4.3 km) south of Plymouth.

DRAINAGE AREA.--623 mi² (1,614 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,310 ft (1,314 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 70.9 ft³/s (2.008 m³/s) 51,370 acre-ft/yr (63.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 740 ft³/s (21.0 m³/s) Mar. 10 (gage height, 8.19 ft or 2.496 m); minimum daily, 25 ft³/s (0.71 m³/s) several days.

Period of record: Maximum discharge, 740 ft³/s (21.0 m³/s) Mar. 10, 1974 (gage height, 8.19 ft or 2.496 m); minimum daily, 8.8 ft³/s (0.25 m³/s) Sept. 1, 1967.

Maximum measured discharge near this site, 3,240 ft³/s (91.8 m³/s) February 1962.

REMARKS.--Records good. Flow regulated by several small reservoirs above station. Diversions above station for irrigation of about 30,000 acres (121 km²).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	81	113	77	121	113	157	115	44	27	29	27
2	73	83	116	72	128	233	169	116	43	27	28	27
3	69	84	120	96	135	211	178	124	41	27	33	27
4	69	84	123	97	139	221	191	124	39	26	32	26
5	71	85	118	84	135	217	191	122	41	26	30	26
6	73	86	113	81	125	212	175	119	41	26	29	25
7	75	89	109	80	111	311	160	112	41	25	29	26
8	78	100	108	81	116	425	153	108	45	25	31	27
9	81	107	110	77	107	506	147	107	44	25	31	27
10	89	108	110	78	101	692	150	104	43	26	31	27
11	99	105	105	83	95	648	163	99	41	26	31	27
12	97	104	103	81	96	544	186	92	38	25	29	27
13	94	104	102	81	95	422	204	89	37	25	27	28
14	93	107	104	84	97	359	210	86	37	25	26	28
15	89	111	108	86	98	319	202	79	37	25	26	29
16	87	112	106	90	98	283	180	73	36	27	25	29
17	87	112	104	94	104	253	175	67	33	26	25	29
18	85	111	105	101	106	223	170	64	32	26	25	30
19	84	114	107	110	109	195	165	61	31	26	26	30
20	82	125	108	119	110	181	158	59	31	27	25	29
21	80	134	102	123	109	171	155	58	29	28	25	27
22	79	132	100	127	107	161	150	62	30	28	26	27
23	80	125	102	125	106	158	145	67	29	27	25	28
24	82	120	105	120	104	156	142	65	29	27	27	28
25	82	116	107	120	100	153	140	63	29	27	26	28
26	85	113	107	121	96	148	135	60	28	28	27	28
27	86	108	94	120	101	146	130	53	28	27	27	30
28	85	106	106	121	102	146	128	52	27	29	25	30
29	84	108	105	106	-----	151	125	51	27	28	26	29
30	83	109	108	109	-----	155	122	50	27	29	27	29
31	82	-----	108	114	-----	157	-----	47	-----	29	27	-----
TOTAL	2,556	3,183	3,336	3,058	3,051	8,270	4,856	2,548	1,058	825	856	835
MEAN	82.5	106	108	98.6	109	267	162	82.2	35.3	26.6	27.6	27.8
MAX	99	134	123	127	139	692	210	124	45	29	33	30
MIN	69	81	94	72	95	113	122	47	27	25	25	25
AC-FT	5,070	6,310	6,620	6,070	6,050	16,400	9,630	5,050	2,100	1,640	1,700	1,660

CAL YR 1973 TOTAL 36,832 MEAN 101 MAX 454 MIN 28 AC-FT 73,060
WTR YR 1974 TOTAL 34,432 MEAN 94.3 MAX 692 MIN 25 AC-FT 68,300

BEAR RIVER BASIN

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10125800 Malad River below Bear River Duck Club Canal, near Bear River City, Utah

LOCATION.--Lat 41°39'13", long 112°09'43", in SE¼SE¼ sec.27, T.11 N., R.3 W., Box Elder County, on right bank 0.9 mi (1.4 km) downstream from head of Bear River Duck Club Canal and 3.1 mi (5.0 km) northwest of Bear River City.

DRAINAGE AREA.--698 mi² (1,810 km²), approximately.

PERIOD OF RECORD.--April 1964 to January 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,252 ft (1,296.0 m) from topographic map.

AVERAGE DISCHARGE.--9 years (1964-73), 43.7 ft³/s (1.238 m³/s) 31,660 acre-ft/yr (39.0 hm³/yr).

EXTREMES.--Maximum discharge during period October 1973 to January 1974, 153 ft³/s (4.33 m³/s) Nov. 12 (gage height, 2.36 ft or 0.719 m); minimum daily, 58 ft³/s (1.64 m³/s) Oct. 4.
Period of record: Maximum daily discharge, about 600 ft³/s (17.0 m³/s) Apr. 6, 1964, estimated on basis of records for station near Plymouth; minimum daily, 0.10 ft³/s (0.003 m³/s) July 26, 1967.

REMARKS.--Records good. Diversions for irrigation of several thousand acres above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	65	84	85	100							
2	60	65	82	85	104							
3	61	65	83	85	108							
4	58	65	91	85	113							
5	59	66	89	85	112							
6	61	67	82	75	108							
7	63	68	79	75								
8	68	74	77	75								
9	68	82	77	75								
10	68	85	79	75								
11	77	84	78	75								
12	81	75	75	75								
13	77	79	73	75								
14	75	76	73	75								
15	74	80	76	75								
16	71	82	78	68								
17	69	84	77	72								
18	68	86	78	78								
19	66	86	78	89								
20	65	88	77	100								
21	63	101	78	103								
22	62	106	73	103								
23	61	101	74	105								
24	62	95	77	100								
25	63	84	79	98								
26	65	84	78	99								
27	67	81	76	97								
28	68	78	69	98								
29	68	81	88	94	-----							
30	67	82	83	80	-----							
31	66	-----	83	89	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	2,060	2,415	2,444	2,648								
MEAN	66.5	80.5	78.8	85.4								
MAX	81	106	91	105								
MIN	58	65	69	68								
AC=FT	4,090	4,790	4,850	5,250								

BEAR RIVER BASIN

10126000 Bear River near Corinne, Utah

LOCATION.--Lat 41°34'35", long 112°06'00", in SE¼NE¼ sec.30, T.10 N., R.2 W., Box Elder County, on right bank 1.2 mi (1.9 km) downstream from Salt Creek, 2.0 mi (3.2 km) northeast of Corinne, and 2.8 mi (4.5 km) downstream from Malad River.

DRAINAGE AREA.--7,029 mi² (18,205 km²), revised.

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft (1,281.56 m) unadjusted. Auxiliary nonrecording gage 7,800 ft (2,380 m) downstream July 27, 1950 to Nov. 21, 1955.

AVERAGE DISCHARGE.--19 years, 1,771 ft³/s (50.15 m³/s) 1,283,000 acre-ft/yr (1.58 km³/yr).

EXTREMES.--Current year: Maximum discharge, 4,340 ft³/s (123 m³/s) Mar. 12, 13 (gage height, 11.64 ft or 3.548 m); minimum daily, 195 ft³/s (5.52 m³/s) July 12.
Period of record: Maximum discharge, 7,370 ft³/s (209 m³/s) June 17, 1971 (gage height, 15.12 ft or 4.609 m); minimum daily, 72 ft³/s (2.04 m³/s) Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,990	1,390	1,930	1,800	2,500	2,010	3,110	3,920	3,130	821	674	622
2	2,020	1,320	1,550	1,500	2,480	2,850	3,260	3,970	3,150	856	536	789
3	1,750	1,740	1,640	1,400	2,590	3,500	3,250	3,830	3,120	844	574	836
4	1,630	1,480	1,730	1,600	2,380	3,440	3,370	3,610	3,000	827	722	768
5	1,730	898	1,680	1,650	2,310	3,400	3,320	3,620	2,850	781	718	521
6	1,620	1,430	1,870	700	2,100	3,230	3,110	3,720	2,980	718	708	1,280
7	1,750	1,540	2,010	1,600	1,850	3,520	2,820	3,780	3,110	353	517	1,030
8	1,810	1,450	1,820	1,900	2,370	3,980	2,800	3,820	3,210	319	702	1,130
9	1,890	1,690	2,070	2,000	2,130	4,110	2,680	3,720	3,610	444	819	1,080
10	1,790	1,330	2,060	1,900	2,120	4,180	2,670	3,960	3,690	1,000	918	958
11	1,570	1,530	2,020	1,900	2,050	4,240	2,880	3,980	3,470	563	578	745
12	1,880	1,640	1,940	1,900	2,150	4,330	3,010	4,030	3,200	195	897	1,060
13	1,720	1,680	1,940	2,200	1,720	4,300	3,240	4,050	2,960	406	944	1,260
14	1,700	1,460	1,960	2,000	1,860	4,190	3,390	4,060	2,780	646	1,010	1,320
15	1,790	1,790	1,740	2,300	2,370	4,150	3,430	4,050	2,680	443	1,000	1,240
16	1,650	1,630	1,900	2,200	2,690	4,140	3,350	4,010	2,490	528	953	1,320
17	1,870	1,870	2,040	2,300	2,680	4,060	3,150	3,520	2,590	805	940	1,410
18	1,700	1,770	1,880	2,500	2,900	3,910	3,160	3,140	2,770	1,080	491	1,010
19	1,450	1,800	1,910	2,700	2,680	3,850	3,100	2,860	2,560	793	212	1,220
20	1,610	1,780	2,060	3,000	2,430	3,810	2,990	2,420	2,320	913	897	1,390
21	1,760	1,840	1,940	3,300	2,310	3,800	3,220	2,560	1,720	839	618	1,250
22	1,620	1,940	1,680	3,200	2,510	3,860	3,340	3,030	1,950	789	698	1,380
23	1,950	1,680	1,940	3,100	2,400	3,620	3,420	3,120	2,230	714	690	1,420
24	1,610	1,970	2,010	3,000	1,980	3,340	3,460	3,100	1,810	622	991	1,350
25	1,690	1,880	1,920	2,300	2,200	3,130	3,470	3,070	1,840	944	698	1,180
26	1,920	1,550	1,920	3,200	2,060	2,930	3,540	2,970	1,340	1,000	698	936
27	1,810	1,780	2,110	2,900	1,800	2,830	3,750	2,320	1,310	666	811	1,030
28	1,920	1,680	1,700	2,600	1,900	2,840	3,880	2,220	1,310	743	1,000	635
29	1,900	1,590	1,940	2,600	-----	2,760	3,920	2,300	1,100	678	901	640
30	1,510	1,770	2,140	2,250	-----	2,970	3,930	2,660	905	918	590	628
31	1,160	-----	1,890	2,200	-----	3,000	-----	3,070	-----	594	382	-----
TOTAL	53,770	48,898	58,940	69,700	63,520	110,280	98,020	104,490	75,185	21,842	22,887	31,438
MEAN	1,735	1,630	1,901	2,248	2,269	3,557	3,267	3,371	2,506	705	738	1,048
MAX	2,020	1,970	2,140	3,300	2,900	4,330	3,930	4,060	3,690	1,080	1,010	1,420
MIN	1,160	898	1,550	700	1,720	2,010	2,670	2,220	905	195	212	521
AC-FT	106,700	96,990	116,900	138,200	126,000	218,700	194,400	207,300	149,100	43,320	45,400	62,360
CAL YR 1973	TOTAL 696,197		MEAN 1,907	MAX 3,830	MIN 90	AC-FT 1,381,000						
WTR YR 1974	TOTAL 758,970		MEAN 2,079	MAX 4,330	MIN 195	AC-FT 1,505,000						

BEAR RIVER BASIN

185

10126180 Sulphur Creek near Corinne, Utah

LOCATION.--Lat 41°34'25", long 112°13'07", in SW¼SE¼NE¼ sec.30, T.10 N., R.3 W., Box Elder County, on right bank 100 ft (30 m) downstream from bridge on State Highway 83, 6 mi (10 km) northwest of Corinne, Utah

DRAINAGE AREA.--15.4 mi² (39.9 km²).

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft (1,288.94 m) by Topographic Division.

EXTREMES.--Current year: Maximum discharge, 149 ft³/s (4.22 m³/s) Mar. 9, 10 (gage height, 3.25 ft or 0.991 m); minimum daily, 36 ft³/s (1.02 m³/s) Apr. 27.
Period of record: Maximum discharge, 185 ft³/s (5.24 m³/s) Mar. 13, 1973 (gage height, 3.39 ft or 1.033 m); minimum daily, 24 ft³/s (0.68 m³/s) Apr. 30, 1972.

REMARKS.--Records good except those for winter periods, which are fair.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	57	61	56	60	56	52	38	48	40	61	43
2	72	56	63	56	63	76	59	39	47	40	53	48
3	73	55	57	56	63	92	55	51	48	40	52	47
4	64	55	58	56	63	90	53	52	48	40	53	48
5	61	55	58	56	63	87	53	50	54	40	57	56
6	62	57	58	56	65	89	52	52	67	55	56	59
7	62	56	58	56	59	99	50	56	79	55	58	57
8	65	57	57	56	56	139	48	53	85	55	61	57
9	68	56	55	56	56	148	48	45	87	55	61	62
10	65	61	55	56	56	148	50	47	77	61	65	62
11	65	64	56	56	57	145	58	49	65	60	65	61
12	67	74	55	56	54	138	65	48	58	61	66	59
13	68	89	55	56	52	129	62	53	60	60	69	62
14	67	67	56	56	51	116	60	55	57	60	65	65
15	66	67	56	55	52	107	59	63	52	64	61	59
16	65	68	56	52	53	99	58	58	49	68	60	58
17	64	68	56	54	55	94	55	54	47	76	60	56
18	64	73	61	56	55	88	52	59	45	69	58	54
19	65	78	56	58	57	79	51	61	48	69	60	59
20	64	68	56	61	57	70	49	67	48	72	61	60
21	64	71	56	61	55	65	49	90	46	84	60	53
22	63	73	56	60	55	63	48	77	45	87	63	56
23	65	75	56	59	54	60	45	62	44	86	66	75
24	63	77	56	59	54	57	39	56	45	79	65	63
25	63	74	56	58	50	55	43	60	44	71	62	59
26	63	73	56	58	55	54	40	62	44	60	64	60
27	60	71	56	58	49	53	36	64	43	54	66	61
28	58	70	56	58	50	53	37	61	40	53	64	61
29	59	69	56	57	-----	52	37	53	42	53	60	63
30	56	68	56	56	-----	53	38	52	41	59	49	65
31	57	-----	56	56	-----	52	-----	51	-----	60	44	-----
TOTAL	1,996	2,002	1,759	1,760	1,569	2,706	1,501	1,738	1,603	1,886	1,865	1,748
MEAN	64.4	66.7	56.7	56.8	56.0	87.3	50.0	56.1	53.4	60.8	60.2	58.3
MAX	78	89	63	61	65	148	65	90	87	87	69	75
MIN	56	55	55	52	49	52	36	38	40	40	44	43
AC-FT	3,960	3,970	3,490	3,490	3,110	5,370	2,980	3,450	3,180	3,740	3,700	3,470

CAL YR 1973 TOTAL 26,325 MEAN 72.1 MAX 179 MIN 40 AC-FT 52,220
WTR YR 1974 TOTAL 22,133 MEAN 60.6 MAX 148 MIN 36 AC-FT 43,900

LOCATION.--Lat 41°30'36", long 112°04'34", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.9 N., R.2 W., Box Elder County, on left bank 20 ft (6 m) above bridge on Highway 523, and 3 mi (5 km) west of Brigham City.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES.--Current year: Maximum discharge, 125 ft³/s (3.54 m³/s) Mar. 9, 10 (gage height, 3.52 ft or 1.073 m); minimum, 5.4 ft³/s (0.15 m³/s) Aug. 20.
Period of record: Maximum discharge, 171 ft³/s (4.84 m³/s) Mar. 11, 1973 (gage height, 3.78 ft or 1.152 m, from Dahman indicator); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 13, 1972.

REMARKS.--Records good.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	48	48	58	71	52	54	38	17	9.3	8.2	13
2	58	47	51	55	73	99	57	40	17	8.6	8.1	13
3	54	46	53	44	75	113	60	43	17	7.6	7.8	10
4	52	45	52	45	75	113	60	45	17	9.1	7.6	10
5	51	43	50	45	76	111	59	37	17	11	7.5	10
6	49	43	47	45	75	117	59	30	17	11	7.4	14
7	48	44	45	28	72	122	58	27	17	12	11	16
8	48	47	43	27	67	118	55	30	17	11	11	17
9	53	47	40	39	60	122	54	29	17	9.7	12	15
10	56	46	37	40	51	123	56	20	17	9.6	11	13
11	59	43	37	35	44	116	65	16	16	8.4	11	12
12	59	42	39	35	38	111	88	12	16	8.9	11	16
13	58	43	41	30	35	104	97	14	16	8.8	9.0	19
14	57	43	42	30	34	99	100	13	17	8.8	8.4	18
15	56	39	41	31	34	97	101	12	17	9.1	8.5	17
16	55	39	40	40	35	93	101	12	17	9.3	7.7	17
17	54	38	40	40	36	91	100	10	16	11	6.3	17
18	54	40	42	50	38	88	98	13	14	9.3	7.8	19
19	52	47	44	57	46	84	94	17	13	9.9	7.1	18
20	49	50	44	66	52	78	90	27	9.5	9.9	6.1	17
21	47	48	43	74	55	73	86	29	9.5	11	8.2	16
22	47	49	44	83	57	66	80	24	8.1	11	7.7	14
23	46	49	45	83	57	64	72	20	8.4	11	8.8	14
24	47	49	47	83	55	62	64	19	8.8	13	11	13
25	48	48	49	83	50	59	56	20	9.8	13	13	13
26	50	47	46	82	45	57	52	20	9.4	12	13	14
27	50	47	43	82	42	55	47	19	10	12	16	16
28	49	46	45	80	41	54	42	17	7.6	9.1	17	18
29	49	46	52	78	-----	54	41	17	7.8	8.9	15	20
30	49	47	53	74	-----	54	40	17	9.0	8.7	15	20
31	49	-----	53	72	-----	54	-----	17	-----	8.5	13	-----
TOTAL	1,613	1,356	1,396	1,714	1,489	2,703	2,086	704	409.9	310.5	312.2	459
MEAN	52.0	45.2	45.0	55.3	53.2	87.2	69.5	22.7	13.7	10.0	10.1	15.3
MAX	60	50	53	83	76	123	101	45	17	13	17	20
MIN	46	38	37	27	34	52	40	10	7.6	7.6	6.1	10
AC=FT	3,200	2,690	2,770	3,400	2,950	5,360	4,140	1,400	813	616	619	910
CAL YR 1973	TOTAL 17,958.0		MEAN 49.2	MAX 164	MIN 13	AC=FT 35,620						
WTR YR 1974	TOTAL 14,552.6		MEAN 39.9	MAX 123	MIN 6.1	AC=FT 28,870						

BEAR RIVER BASIN

187

10127110 Bear River basin outflow across State Highway 83 near Corinne, Utah

LOCATION.--Records of discharge are collected at 3 continuous recording gaging stations (see stations 10126000, 10126180, and 101271000) and 46 culvert or bridge openings which cross State Highway 83 from Brigham City on the east to the base of Little Mountain 7.2 mi (11.6 km) west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

EXTREMES.--Current year: Maximum daily discharge, 4,710 ft³/s (133 m³/s) Mar. 12; minimum daily, 438 ft³/s (12.4 m³/s) July 12.

Period of record: Maximum daily discharge, 5,350 ft³/s (152 m³/s) Apr. 19, 1972; minimum daily, 336 ft³/s (9.52 m³/s) July 11, 1973.

REMARKS.--Records good. Three of the culvert crossings are distributaries of canals and weir gage readings are made almost daily during the irrigation season by the watermaster. Flow through the other openings generally is determined once a week by hydrographers of the Geological Survey, either by current meter measurements, discharge based on computerized ratings for flow through culverts, or field estimates. Records for station 10127100 Black Slough are collected at a bridge crossing on county road about 2 mi (3.2 km) downstream from State Highway 83 in order to include Box Elder Creek. Most of the flow that crosses Highway 83 is included in records for station 10126000 Bear River near Corinne.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,300	1,600	2,130	1,970	2,740	2,260	3,280	4,030	3,390	1,030	927	874
2	2,320	1,530	1,750	1,670	2,720	3,160	3,430	4,080	3,410	1,060	782	1,060
3	2,040	1,950	1,840	1,560	2,830	3,840	3,420	3,960	3,380	1,050	814	1,100
4	1,900	1,690	1,930	1,760	2,620	3,780	3,540	3,760	3,270	1,030	968	1,030
5	1,990	1,100	1,870	1,810	2,550	3,740	3,480	3,790	3,120	1,000	973	800
6	1,870	1,640	2,060	858	2,340	3,570	3,270	3,920	3,260	950	952	1,570
7	2,000	1,750	2,200	1,740	2,090	3,880	2,980	3,990	3,370	593	771	1,310
8	2,060	1,660	2,010	2,040	2,600	4,370	2,950	4,060	3,480	544	964	1,410
9	2,140	1,900	2,250	2,150	2,350	4,510	2,830	3,960	3,920	721	1,090	1,360
10	2,040	1,540	2,240	2,050	2,330	4,580	2,820	4,200	4,000	1,240	1,190	1,240
11	1,820	1,740	2,200	2,050	2,260	4,630	3,050	4,230	3,740	805	859	1,020
12	2,130	1,860	2,120	2,050	2,350	4,710	3,210	4,300	3,480	438	1,170	1,340
13	1,970	1,910	2,120	2,350	1,910	4,660	3,450	4,330	3,230	656	1,220	1,550
14	1,940	1,660	2,140	2,150	2,050	4,530	3,610	4,330	3,060	902	1,270	1,610
15	2,030	1,990	1,920	2,450	2,560	4,470	3,650	4,310	2,950	703	1,260	1,520
16	1,890	1,830	2,080	2,360	2,880	4,450	3,580	4,280	2,740	775	1,210	1,600
17	2,100	2,070	2,220	2,460	2,880	4,360	3,370	3,790	2,820	1,070	1,200	1,690
18	1,930	1,980	2,060	2,670	3,100	4,200	3,370	3,430	2,990	1,340	749	1,280
19	1,680	2,020	2,090	2,880	2,890	4,120	3,300	3,170	2,770	1,060	467	1,490
20	1,840	1,990	2,240	3,200	2,650	4,060	3,190	2,760	2,530	1,190	1,150	1,660
21	1,980	2,050	2,120	3,510	2,530	4,030	3,410	2,910	1,940	1,130	870	1,510
22	1,840	2,150	1,860	3,420	2,740	4,080	3,520	3,370	2,160	1,080	950	1,640
23	2,170	1,890	2,120	3,320	2,630	3,830	3,590	3,450	2,450	997	948	1,700
24	1,830	2,190	2,190	3,230	2,220	3,540	3,610	3,400	2,010	919	1,260	1,620
25	1,910	2,100	2,100	2,530	2,430	3,320	3,610	3,370	2,030	1,220	964	1,420
26	2,140	1,760	2,090	3,430	2,290	3,120	3,670	3,260	1,540	1,270	958	1,180
27	2,030	1,990	2,280	3,130	2,030	3,010	3,870	2,590	1,510	921	1,080	1,290
28	2,140	1,890	1,870	2,840	2,130	3,020	3,990	2,450	1,510	1,000	1,260	901
29	2,120	1,790	2,110	2,840	-----	2,930	4,030	2,530	1,310	926	1,140	919
30	1,720	1,970	2,310	2,480	-----	3,140	4,040	2,900	1,110	1,160	835	911
31	1,380	-----	2,060	2,430	-----	3,170	-----	3,330	-----	834	630	-----
TOTAL	61,250	55,190	64,580	75,388	69,700	119,070	103,120	112,240	82,480	29,614	30,881	39,605
MEAN	1,976	1,840	2,083	2,432	2,489	3,841	3,437	3,621	2,749	955	996	1,320
MAX	2,320	2,190	2,310	3,510	3,100	4,710	4,040	4,330	4,000	1,340	1,270	1,700
MIN	1,380	1,100	1,750	858	1,910	2,260	2,820	2,450	1,110	438	467	800
AC-FT	121,500	109,500	128,100	149,500	138,200	236,200	204,500	222,600	163,600	58,740	61,250	78,560

CAL YR 1973 TOTAL 790,735 MEAN 2,166 MAX 4,340 MIN 336 AC-FT 1,568,000
WTR YR 1974 TOTAL 843,118 MEAN 2,310 MAX 4,710 MIN 438 AC-FT 1,672,000

WEBER RIVER BASIN

10128200 South Fork Weber River near Oakley, Utah

LOCATION.--Lat 40°44'55, long 111°13'08", in SW¼ sec.12, T.1 S., R.6 E., Summit County, on right bank 0.2 mile (0.3 km) upstream from mouth and 5 miles (8 km) northeast of Oakley.

DRAINAGE AREA.--16 sq mi (41 km²), approximately.

PERIOD OF RECORD.--October 1964 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 25.6 ft³/s (0.725 m³/s), 18,550 acre-ft/yr (22.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 189 ft³/s (5.35 m³/s) May 28 (gage height, 2.52 ft or 0.768 m); maximum gage height, 2.70 ft (0.823 m) occurred during period of no gage-height record (backwater from ice); minimum recorded discharge, 9.7 ft³/s (0.28 m³/s) many days in February and March.

Period of record: Maximum discharge, 259 ft³/s (7.33 m³/s) June 13, 1965 (gage height, 2.73 ft or 0.832 m); minimum indicated, 6.2 ft³/s (0.18 m³/s) Feb. 20, 1965.

REMARKS.--Records good except those for period of no gage-height record which are fair. No regulation above station; however, some water is diverted to irrigate a few acres of meadowland above the station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	11	10	10	10	11	27	150	40	17	13
2	13	11	11	10	10	11	11	33	151	38	18	12
3	13	11	11	10	10	10	11	36	145	35	17	12
4	13	11	11	10	10	10	11	37	131	32	16	12
5	13	11	11	10	10	10	11	42	143	30	16	12
6	13	11	11	10	10	10	11	56	143	29	16	12
7	13	11	10	10	10	10	11	68	118	27	16	12
8	13	11	10	10	10	10	11	83	96	26	16	12
9	13	11	10	10	10	10	11	103	80	25	16	12
10	13	11	10	10	10	10	12	123	78	24	15	12
11	13	11	10	10	10	10	11	94	96	23	15	12
12	13	11	10	10	10	11	11	93	113	23	15	12
13	12	11	11	10	10	11	11	93	131	22	15	12
14	12	11	10	10	10	11	11	82	138	21	15	12
15	12	11	10	10	10	11	11	74	138	21	15	12
16	12	11	10	10	10	11	11	73	131	21	15	12
17	12	11	11	10	10	12	12	69	126	20	14	12
18	12	11	11	10	10	12	13	78	124	20	14	12
19	12	11	10	10	10	11	14	86	118	20	14	11
20	12	11	10	10	10	11	14	79	105	20	14	11
21	12	11	10	10	10	12	13	68	94	20	14	11
22	12	11	10	10	10	11	14	63	84	19	14	11
23	12	11	10	10	10	11	16	59	78	19	14	11
24	12	11	10	10	10	11	19	63	73	19	13	11
25	12	11	10	10	10	11	22	72	67	18	13	11
26	12	11	10	10	9.9	11	30	93	60	18	14	11
27	12	11	10	10	9.9	11	27	138	55	18	13	11
28	12	11	10	10	9.9	11	24	174	49	17	13	12
29	12	11	10	10	-----	11	23	175	46	17	13	12
30	12	11	10	10	-----	11	23	163	43	17	13	12
31	12	-----	10	10	-----	12	-----	150	-----	17	13	-----
TOTAL	384	331	319	310	279.7	335	441	2,647	3,104	716	456	352
MEAN	12.4	11.0	10.3	10.0	9.99	10.8	14.7	85.4	103	23.1	14.7	11.7
MAX	13	12	11	10	10	12	30	175	151	40	18	13
MIN	12	11	10	10	9.9	10	11	27	43	17	13	11
AC-FT	762	657	633	615	555	664	875	5,250	6,160	1,420	904	698

CAL YR 1973 TOTAL 8,890.9 MEAN 24.4 MAX 181 MIN 9.7 AC-FT 17,640
WTR YR 1974 TOTAL 9,674.7 MEAN 26.5 MAX 175 MIN 9.9 AC-FT 19,190

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-10	0700	2.32	132	6-14	2400	2.46	164
5-28	0700	2.52	189				

NOTE:--No gage-height record Jan. 2 to Feb. 7.

10128500 Weber River near Oakley, Utah

LOCATION.--Lat 40°44'10", long 111°14'45"; in SE¼NE¼ sec.15, T.1 S., R.6 E., Summit County, on right bank 1.4 miles (2.3 km) downstream from South Fork, 2.6 miles (4.2 km) upstream from Weber-Provo diversion canal, and 3.2 miles (5.1 km) northeast of Oakley.

DRAINAGE AREA.--163 sq mi (422 km²).

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m) from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mile (0.3 km) downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft (0.15 m) higher.

AVERAGE DISCHARGE.--70 years, 222 ft³/s (6.29 m³/s), 160,800 acre-ft/year (198 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,010 ft³/s (56.9 m³/s) May 29 (gage height, 3.68 ft or 1.122 m); minimum recorded, 32 ft³/s (0.906 m³/s) (result of discharge measurement) Dec. 26.

Period of record: Maximum discharge observed, 4,170 ft³/s (118 m³/s) June 13, 1921 (gage height, 9.0 ft or 2.74 m, site and datum then in use), from rating curve extended above 2,000 ft³/s (56.6 m³/s); minimum recorded, 16 ft³/s (0.45 m³/s) Mar. 12, 1941.

REMARKS.--Records good except those for winter periods which are fair. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 3,400 acre-ft (4.19 hm³).

REVISIONS(WATER YEARS).--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	83	60	50	50	69	103	388	1,420	369	133	84
2	107	76	60	50	50	72	106	461	1,380	354	141	82
3	107	78	60	50	50	63	101	460	1,370	332	138	78
4	120	76	60	50	50	74	98	478	1,230	300	128	77
5	115	78	60	50	50	77	96	582	1,330	282	123	76
6	106	77	60	50	50	70	100	729	1,190	271	121	73
7	104	80	60	50	50	69	95	858	973	257	119	72
8	101	85	60	50	50	67	94	1,040	827	248	115	71
9	99	83	60	50	50	67	105	1,240	706	238	112	70
10	96	79	60	50	50	69	107	1,370	685	229	108	68
11	95	80	60	50	50	72	104	1,140	872	220	103	69
12	94	84	60	50	50	75	104	1,120	1,090	207	100	74
13	88	84	60	50	50	80	100	1,060	1,250	202	98	72
14	87	84	60	50	50	83	100	943	1,370	196	95	71
15	87	78	60	50	50	92	102	900	1,460	193	102	70
16	85	82	50	50	50	100	110	914	1,310	189	100	70
17	83	80	50	50	50	108	116	898	1,280	194	100	67
18	82	81	50	50	50	112	135	971	1,170	184	96	67
19	81	79	50	50	50	102	145	1,030	1,110	182	93	66
20	79	71	50	50	50	101	150	892	1,070	183	98	65
21	84	79	50	50	50	95	139	755	955	177	110	65
22	87	74	50	50	50	99	148	674	834	162	105	64
23	84	65	50	50	50	97	188	638	782	160	101	63
24	83	65	50	50	50	94	243	675	740	158	96	62
25	80	65	50	50	50	100	330	851	676	150	93	61
26	78	65	45	50	52	105	402	1,050	613	146	92	61
27	73	65	45	50	56	110	337	1,400	545	142	98	62
28	75	65	45	50	63	112	287	1,720	487	135	96	64
29	77	65	45	50	-----	104	281	1,780	442	132	94	64
30	75	65	45	50	-----	107	319	1,640	406	137	90	63
31	77	-----	45	50	-----	111	-----	1,450	-----	132	87	-----
TOTAL	2,800	2,271	1,670	1,550	1,421	2,756	4,845	30,107	29,573	6,461	3,285	2,071
MEAN	90.3	75.7	53.9	50.0	50.8	88.9	162	971	986	208	106	69.0
MAX	120	85	60	50	63	112	402	1,780	1,460	369	141	84
MIN	73	65	45	50	50	63	94	388	406	132	87	61
AC-FT	5,550	4,500	3,310	3,070	2,820	5,470	9,610	59,720	58,660	12,820	6,520	4,110
CAL YR 1973	TOTAL 76,531 MEAN 210 MAX 1,570 MIN 45 AC-FT 151,800											
WTR YR 1974	TOTAL 88,810 MEAN 243 MAX 1,780 MIN 45 AC-FT 176,200											

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-10	0130	3.20	1,560	6-15	0200	3.52	1,760
5-29	0200	3.68	2,010				

WEBER RIVER BASIN

10129300 Weber River near Peoa, Utah

LOCATION.--Lat 40°45'04", long 111°22'11", in NW¼SE¼NW¼ sec. 10, T.1 S., R.5 E., Summit County, on left bank 60 ft (18 m) downstream from bridge on alternate U.S. Highway 189, 2.4 miles (3.9 km) north of Peoa, and 3.2 miles (5.1 km) upstream from Wanship Dam.

DRAINAGE AREA.--285 sq mi (740 km²), approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,050 ft (1,844 m) from Bureau of Reclamation Rockport Reservoir map.

AVERAGE DISCHARGE.--17 years, 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (161 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,610 ft³/s (45.6 m³/s) May 29 (gage height, 4.47 ft or 1.362 m); minimum 44 ft³/s (1.25 m³/s) Feb. 5.

Period of record: Maximum discharge, 2,160 ft³/s (61.2 m³/s) June 13, 1965 and June 18, 1971 (gage height, 4.80 ft or 1.463 m June 18, 1971); minimum recorded, 7.6 ft³/s (0.22 m³/s) Dec. 28, 1962.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Rockport Reservoir. Records do not include 42,879 acre-ft (52.9 hm³) of water diverted from Weber River basin through Weber-Provo diversion canal. Flow slightly regulated by several small reservoirs above station.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	111	104	70	77	97	107	395	1,200	225	112	71
2	138	104	107	70	76	166	133	483	1,190	202	132	75
3	134	104	95	70	78	141	134	482	1,220	207	135	76
4	142	105	90	70	74	132	137	470	1,100	184	123	77
5	141	102	87	70	73	136	134	549	1,220	181	120	77
6	135	115	98	70	73	133	141	715	1,200	163	117	77
7	133	124	89	70	73	131	116	847	962	158	108	78
8	136	112	92	70	73	137	97	1,030	820	155	102	78
9	145	101	79	70	73	150	101	1,240	659	155	102	78
10	146	95	86	70	73	173	109	1,370	538	153	96	78
11	140	93	80	70	73	198	141	1,160	491	151	96	78
12	133	93	83	70	73	244	149	1,090	669	149	97	82
13	131	102	85	70	75	305	154	1,040	832	151	94	84
14	127	101	80	70	79	277	161	937	950	151	89	85
15	125	92	75	72	75	283	141	870	1,090	155	92	87
16	121	101	74	83	82	230	133	860	948	163	87	82
17	107	97	81	90	79	202	124	830	972	155	82	82
18	102	98	82	89	84	185	136	860	839	153	82	80
19	101	99	82	85	78	151	152	928	748	157	79	82
20	98	94	82	84	80	140	216	866	706	165	80	82
21	94	97	83	81	78	125	206	736	629	159	84	84
22	99	111	83	79	78	128	182	639	510	143	86	85
23	98	90	81	78	78	124	208	594	396	132	86	86
24	101	84	75	77	78	108	271	575	444	126	86	89
25	101	87	71	77	78	106	383	652	474	122	86	91
26	99	85	72	75	78	105	514	722	302	116	82	90
27	99	85	72	75	79	114	439	1,060	286	113	79	89
28	99	88	72	75	79	119	355	1,400	360	110	77	90
29	101	85	72	76	-----	110	307	1,490	336	104	77	89
30	104	91	70	77	-----	112	311	1,390	270	100	75	89
31	106	-----	70	78	-----	123	-----	1,260	-----	103	72	-----
TOTAL	3,674	2,946	2,552	2,331	2,147	4,885	5,892	27,540	22,361	4,661	2,915	2,471
MEAN	119	98.2	82.3	75.2	76.7	158	196	888	745	150	94.0	82.4
MAX	146	124	107	90	84	305	514	1,490	1,220	225	135	91
MIN	94	84	70	70	73	97	97	395	270	100	72	71
AC-FT	7,290	5,840	5,060	4,620	4,260	9,690	11,690	54,630	44,350	9,250	5,780	4,900
CAL YR 1973	TOTAL	75,724	MEAN	207	MAX	1,450	MIN	47	AC-FT	150,200		
WTR YR 1974	TOTAL	84,375	MEAN	231	MAX	1,490	MIN	70	AC-FT	167,400		

10129400 Rockport Reservoir near Wanship, Utah

LOCATION.--Lat 40°47'25", long 111°24'12", in NW¼NW¼SE¼ sec.29, T.1 N., R.5 E., Summit County, in powerhouse on downstream side of dam on Weber River, 1.2 miles (1.9 km) south of Wanship and 1.2 miles (1.9 km) upstream from Silver Creek.

DRAINAGE AREA.--320 sq mi (830 km²), approximately.

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 62,820 acre-ft (77.5 hm³) June 18 (elevation, 6,038.8 ft or 1,840.63 m); minimum observed, 48,910 acre-ft (60.3 hm³) Sept. 30 (elevation, 6,025.2 ft or 1,836.48 m).

Period of record: Maximum contents observed, 65,030 acre-ft (80.2 hm³) June 24, 27, 28, 1967; minimum observed since storage began, 152 acre-ft (0.19 hm³) Sept. 10, 15, 1959 (elevation, 5,931.2 ft or 1,807.46 m).

REMARKS.--Reservoir is formed by earth-fill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity 60,860 acre-ft (75.1 hm³) between elevation 5,930 ft (1,807.5 m) (bottom of outlet tunnel) and 6,037 ft (1,840.1 m) (top of spillway) above mean sea level. Dead storage 1,260 acre-ft (1.55 hm³) below elevation 5,930 ft (1,807.5 m). Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

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

6,025	48,720	6,035	58,730
6,027	50,640	6,037	60,860
6,030	53,600	6,040	64,140
6,032	55,620		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59,150	61,620	61,940	58,840	55,210	50,540	53,200	52,400	58,100	61,400	59,370	53,900
2	59,150	61,730	61,940	58,620	55,110	50,450	53,200	52,700	58,520	61,290	59,150	53,700
3	59,150	61,730	61,940	58,410	55,010	50,540	53,200	52,800	58,840	61,080	59,050	53,500
4	59,150	61,830	61,940	58,200	55,010	50,540	53,200	52,800	59,150	61,080	58,940	53,300
5	59,150	61,730	61,940	58,100	54,800	50,540	53,200	53,000	59,370	61,080	58,840	53,200
6	59,150	61,830	61,940	57,890	54,600	50,640	53,200	53,300	59,790	61,080	58,730	53,000
7	59,150	61,830	61,940	57,890	54,500	50,740	53,200	54,000	59,790	60,970	58,520	52,800
8	59,260	61,940	61,940	57,780	54,300	50,840	53,200	54,400	59,790	60,860	58,310	52,600
9	59,150	61,940	61,830	57,580	54,100	50,840	53,100	55,010	59,150	60,860	58,100	52,400
10	59,370	61,940	61,830	57,470	54,000	50,930	53,100	56,230	58,310	60,750	57,990	52,310
11	59,680	61,940	61,830	57,370	53,800	51,030	53,000	57,370	57,270	60,750	57,890	52,110
12	59,900	61,940	61,730	57,270	53,600	51,230	53,100	58,200	57,270	60,750	57,680	51,810
13	60,110	61,940	61,620	57,160	53,500	51,520	53,200	58,840	58,310	60,650	57,470	51,620
14	60,330	61,830	61,400	57,060	53,400	51,910	53,000	59,050	59,680	60,650	57,270	51,520
15	60,540	61,830	61,190	56,850	53,200	52,210	53,000	59,050	61,290	60,650	57,060	51,420
16	60,650	61,830	61,080	56,750	53,000	52,600	52,800	58,840	62,380	60,650	56,850	51,230
17	60,970	61,830	60,970	56,640	52,800	52,800	52,310	58,730	62,710	60,750	56,640	51,030
18	61,190	61,940	60,860	56,540	52,600	53,100	52,310	58,520	62,820	60,750	56,440	51,030
19	61,400	61,940	60,650	56,540	52,400	53,300	52,110	58,410	62,710	60,750	56,230	50,740
20	61,730	61,940	60,430	56,440	52,210	53,300	52,010	58,310	62,600	60,750	55,920	50,540
21	61,730	61,940	60,330	56,440	52,010	53,400	52,010	58,100	62,490	60,750	55,620	50,350
22	61,830	61,940	60,110	56,330	51,810	53,400	51,910	57,580	62,270	60,750	55,410	50,160
23	62,050	61,940	60,000	56,230	51,520	53,400	51,810	56,850	62,050	60,750	55,310	50,060
24	62,050	61,940	59,900	56,130	51,320	53,400	51,810	56,130	61,940	60,750	55,210	49,870
25	62,160	61,830	59,790	56,030	51,130	53,300	51,710	55,410	61,940	60,650	55,110	49,680
26	62,160	61,830	59,680	55,920	51,030	53,300	52,010	54,800	61,830	60,430	55,010	49,480
27	62,050	61,830	59,470	55,820	50,840	53,200	52,400	54,600	61,730	60,220	54,800	49,390
28	61,940	61,830	59,370	55,720	50,740	53,200	52,500	55,010	61,620	60,110	54,600	49,200
29	61,830	61,940	59,150	55,620	-----	53,200	52,500	56,030	61,510	59,900	54,400	49,010
30	61,730	61,940	59,150	55,510	-----	53,200	52,400	56,950	61,510	59,790	54,300	48,910
31	61,730	-----	58,940	55,410	-----	53,200	-----	57,680	-----	59,580	54,100	-----
MAX	62,160	61,940	61,940	58,840	55,210	53,400	53,200	59,050	62,820	61,400	59,370	53,900
MIN	59,150	61,620	58,940	55,410	50,740	50,450	51,710	52,400	57,270	59,580	54,100	48,910
(†)	6,037.8	6,038.0	6,035.2	6,031.8	6,027.1	6,029.6	6,028.8	6,034.0	6,037.6	6,035.8	6,030.5	6,025.2
(‡)	+2,580	+210	-3,000	-3,530	-4,670	+2,460	-800	+5,280	+3,830	-1,930	-5,480	-5,190

CAL YR 1973. ‡ +27,140
WTR YR 1974. ‡ -10,240

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

WEBER RIVER BASIN

10130500 Weber River near Coalville, Utah

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¼SW¼NE¼ sec.20, T.2 N., R.5 E., Summit County, on left bank 1.5 miles (2.4 km) upstream from high-water line of Echo Reservoir, 1.5 miles (2.4 km) south of Coalville, 3 miles (4.8 km) upstream from Chalk Creek, and 6 miles (9.7 km) downstream from Silver Creek.

DRAINAGE AREA.--438 sq mi (1,134 km²).

PERIOD OF RECORD.--April 1927 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft (1,707 m) from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

AVERAGE DISCHARGE.--43 years, 198 ft³/s (5.61 m³/s), 143,500 acre-ft/yr (177 hm³/yr), since completion of Weber-Provo diversion canal.

EXTREMES.--Current year: Maximum discharge, 1,120 ft³/s (31.7 m³/s) June 9 (gage height, 3.83 ft or 1.167 m); minimum daily 40 ft³/s (1.13 m³/s) Oct. 19.

Period of record: Maximum discharge, 2,190 ft³/s (62.0 m³/s) May 6, 1952; maximum gage height, 5.08 ft (1.55 m) (present datum) May 29, 1951; minimum discharge, 6 ft³/s (0.17 m³/s) Sept. 20, 1934.

REMARKS.--Records good except those for period of no gage height record, which are fair. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include 42,879 acre-ft (52.9 hm³) of water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

REVISIONS(WATER YEARS).--WSP 1314: 1943(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	119	123	159	170	185	199	459	1,070	234	169	136
2	153	129	138	164	170	185	204	543	1,060	218	158	135
3	154	135	130	170	170	185	200	594	1,050	209	158	136
4	155	134	129	183	170	184	199	585	1,060	195	154	139
5	153	130	122	175	170	187	198	608	1,070	187	154	139
6	155	132	114	181	170	190	201	617	1,080	180	157	139
7	107	139	114	159	170	198	196	785	1,090	178	156	138
8	139	141	119	158	170	199	196	980	1,100	162	157	138
9	148	136	117	171	170	201	201	1,000	1,110	153	155	144
10	59	128	107	165	170	203	203	971	1,090	154	155	141
11	61	124	115	165	170	205	208	924	777	151	156	143
12	61	126	208	158	170	213	212	902	318	146	161	146
13	59	124	185	160	170	219	260	967	142	140	165	149
14	59	127	167	160	170	226	313	1,030	133	142	166	149
15	58	125	159	162	170	234	307	1,000	307	146	164	150
16	58	123	157	169	180	248	313	976	640	143	165	148
17	55	122	158	176	180	246	304	969	832	145	164	148
18	41	133	158	171	180	243	333	977	855	149	163	148
19	40	142	157	170	180	212	335	994	785	146	163	146
20	47	134	155	170	180	207	355	1,000	707	148	162	146
21	59	132	158	168	180	200	331	1,000	647	151	164	145
22	69	122	159	167	180	199	333	988	567	157	149	146
23	68	119	158	163	180	196	417	975	471	156	149	147
24	78	116	157	165	180	193	500	965	414	162	151	146
25	91	114	157	165	180	197	516	956	437	176	149	146
26	98	113	164	165	185	202	514	962	372	172	146	142
27	103	113	155	165	185	208	474	944	312	169	145	140
28	104	112	159	165	185	208	447	957	300	169	134	142
29	107	111	161	165	-----	204	432	1,010	282	169	137	140
30	110	115	162	165	-----	202	441	1,060	255	169	135	141
31	112	-----	162	165	-----	205	-----	1,070	-----	170	136	-----
TOTAL	2,915	3,770	4,584	5,164	4,905	6,384	9,342	27,769	20,333	5,146	4,797	4,293
MEAN	94.0	126	148	167	175	206	311	895	678	166	155	143
MAX	155	142	208	183	185	248	516	1,070	1,110	234	169	150
MIN	40	111	107	158	170	184	196	459	133	140	134	135
AC-FT	5,780	7,480	9,090	10,240	9,730	12,660	18,530	55,080	40,330	10,210	9,510	8,520
CAL YR 1973	TOTAL 72,725	MEAN 199	MAX 1,200	MIN 40	AC-FT 144,300							
WTR YR 1974	TOTAL 99,402	MEAN 272	MAX 1,110	MIN 40	AC-FT 197,200							

NOTE.--No gage height record Jan. 24 to Mar. 3.

10130700 East Fork Chalk Creek near Coalville, Utah

LOCATION.--Lat 40°57'28", long 111°06'50", in NE¼NE¼ sec.35, T.3 N., R.7 E., Summit County, on right bank 100 ft (30 m) upstream from bridge on State Highway 133, about 800 ft (244 m) upstream from mouth and 15 miles (24 km) east of Coalville.

DRAINAGE AREA.--35 sq mi (91 km²), approximately.

PERIOD OF RECORD.--October 1964 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 6,703.23 ft (2,043.145 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 34.6 ft³/s (0.980 m³/s), 25,070 acre-ft/yr (30.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 541 ft³/s (15.3 m³/s) May 9 (gage height, 3.38 ft or 1.030 m); minimum daily, 8.3 ft³/s (0.24 m³/s) Sept. 26.

Period of record: Maximum discharge, 541 ft³/s (15.3 m³/s) May 9, 1974 (gage height, 3.38 ft or 1.030 m); minimum recorded, 2.1 ft³/s (0.06 m³/s) Mar. 12, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly affected by Chalk Creek Reservoir, capacity 1,600 acre-ft (1.97 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	16	10	10	10	12	60	198	74	38	21
2	14	14	17	10	10	10	12	78	191	73	37	21
3	14	17	16	10	10	10	14	75	187	69	37	22
4	14	15	14	10	10	10	12	77	173	65	35	22
5	14	15	14	10	10	10	13	116	185	61	34	21
6	14	15	14	10	10	10	12	155	169	57	33	21
7	14	15	14	10	10	10	11	191	149	55	33	21
8	14	15	14	10	10	9.9	12	252	141	53	32	20
9	16	15	14	10	10	10	13	367	128	53	31	12
10	16	14	14	10	10	9.9	14	249	124	50	30	10
11	15	14	14	10	10	10	14	170	130	47	30	9.9
12	15	15	14	10	10	11	13	191	140	44	29	11
13	15	16	14	10	10	11	15	202	143	42	28	10
14	16	15	14	10	10	11	13	167	149	41	28	10
15	15	15	14	10	10	12	14	172	154	42	28	10
16	15	15	14	10	10	13	15	182	151	46	28	9.9
17	14	14	14	10	10	15	16	183	148	43	26	9.5
18	14	14	14	10	10	15	20	206	145	49	26	9.2
19	14	15	13	10	10	13	21	204	138	41	26	9.2
20	13	15	12	10	10	12	22	161	131	39	26	9.2
21	13	15	12	10	10	15	21	129	125	38	26	9.0
22	13	15	12	10	10	15	20	124	118	34	25	8.9
23	13	15	12	10	10	11	28	132	112	33	25	8.7
24	14	15	12	10	10	13	37	146	106	32	24	8.6
25	14	15	12	10	10	12	48	181	102	30	24	8.4
26	13	15	12	10	10	12	63	223	98	29	23	8.3
27	13	15	12	10	10	12	48	252	93	31	23	8.4
28	13	15	12	10	10	12	40	265	88	40	23	8.7
29	14	15	12	10	-----	13	37	255	83	39	22	8.5
30	15	16	12	10	-----	12	44	230	78	38	22	8.4
31	14	-----	12	10	-----	12	-----	208	-----	39	22	-----
TOTAL	439	449	416	310	280	361.8	674	5,603	4,072	1,427	874	374.8
MEAN	14.2	15.0	13.4	10.0	10.0	11.7	22.5	181	136	46.0	28.2	12.5
MAX	16	17	17	10	10	15	63	367	198	74	38	22
MIN	13	14	12	10	10	9.9	11	60	78	29	22	8.3
AC-FT	871	891	825	615	555	718	1,340	11,110	8,080	2,830	1,730	743
CAL YR 1973	TOTAL 12,959.1	MEAN 35.5	MAX 265	MIN 7.3	AC-FT 25,700							
WTR YR 1974	TOTAL 15,280.6	MEAN 41.9	MAX 367	MIN 8.3	AC-FT 30,310							

PEAK DISCHARGE (Base, 100 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	0100	3.38	541	6-14	2400	2.34	165
5-28	2000	2.95	348				

10131000 Chalk Creek at Coalville, Utah

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ sec.8, T.2 N., R.5 E., Summit County, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mile (0.5 km) upstream from mouth.

DRAINAGE AREA.--253 sq mi (655 km²).

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft (1,694.87 m) above mean sea level. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft (30 m) upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.--47 years, 63.6 ft³/s (1.801 m³/s), 46,080 acre-ft/yr (56.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft³/s (35.1 m³/s) May 10 (gage height, 3.64 ft or 1.109 m); minimum, 11 ft³/s (0.31 m³/s) Nov. 22.

Period of record: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Apr. 28, 1952 (gage height, 4.67 ft or 1.423 m); minimum, less than 1 ft³/s (0.028 m³/s) for several days in 1934.

REMARKS.--Records good. Several diversions for irrigation above station, none below. Flow slightly affected by Chalk Creek Reservoir capacity, 1,600 acre-ft (1.97 hm³).

REVISIONS(WATER YEARS).--WSP 1564: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	44	41	24	39	36	87	380	389	109	31	20
2	36	45	42	23	34	38	84	494	360	107	33	20
3	35	44	25	28	30	40	74	481	358	113	28	20
4	35	43	41	31	26	45	69	426	318	109	25	20
5	35	39	32	34	37	50	65	556	327	103	22	20
6	34	47	31	34	28	49	74	633	382	96	24	22
7	34	45	40	35	30	51	68	692	328	91	24	21
8	34	48	40	35	30	52	65	798	315	88	21	23
9	37	46	24	34	30	51	86	929	301	82	21	21
10	43	44	24	34	30	52	107	1,080	272	74	20	19
11	41	44	34	34	30	53	91	780	262	67	20	18
12	41	42	39	34	30	55	97	775	251	64	17	19
13	39	45	39	34	30	64	85	770	239	55	18	20
14	39	46	34	34	30	68	86	617	235	56	17	19
15	38	36	29	35	30	82	96	600	233	55	15	18
16	38	46	33	37	30	93	114	596	228	61	15	18
17	36	44	38	41	30	107	137	561	228	91	17	17
18	35	45	38	40	30	123	185	596	228	92	16	16
19	35	47	31	41	30	109	194	594	220	79	19	17
20	35	40	19	41	30	99	204	511	209	71	20	16
21	36	42	30	38	30	77	162	437	198	63	20	14
22	36	23	42	24	30	75	222	393	189	55	20	15
23	36	36	39	31	30	67	314	386	176	55	20	14
24	38	39	35	41	30	55	400	381	164	51	20	15
25	38	38	32	38	30	60	470	411	153	46	20	17
26	37	39	21	38	35	70	566	444	145	45	20	18
27	36	39	25	35	35	82	395	499	142	40	20	15
28	36	37	38	37	35	105	288	541	138	35	20	14
29	39	39	38	35	-----	82	241	541	125	38	20	15
30	40	40	38	31	-----	89	268	482	110	37	20	17
31	41	-----	27	35	-----	117	-----	417	-----	33	20	-----
TOTAL	1,152	1,252	1,039	1,066	869	2,196	5,394	17,801	7,223	2,161	643	538
MEAN	37.2	41.7	33.5	34.4	31.0	70.8	180	574	241	69.7	20.7	17.9
MAX	43	48	42	41	39	123	566	1,080	389	113	33	23
MIN	34	23	19	23	26	36	65	380	110	33	15	14
AC-FT	2,280	2,480	2,060	2,110	1,720	4,360	10,700	35,310	14,330	4,290	1,280	1,070
CAL YR 1973	TOTAL 36,042		MEAN 98.7		MAX 752		MIN 13		AC-FT 71,490			
WTR YR 1974	TOTAL 41,334		MEAN 113		MAX 1,080		MIN 14		AC-FT 81,990			

PEAK DISCHARGE (BASE, 400 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-26	0300	2.32	650	5-29	0700	2.29	600
5-10	1000	3.64	1,240	6-6	0500	1.76	402

10131500 Echo Reservoir at Echo, Utah

LOCATION.--Lat 40°57'50", long 111°25'55", in NE¼NW¼SW¼ sec.30, T.3 N., R.5 E., Summit County, near outlet works at left end of Echo Dam on Weber River, 1 mile (1.6 km) southeast of Echo.

DRAINAGE AREA.--732 sq mi (1,896 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

EXTREMES.--Current year: Maximum contents, 74,090 acre-ft (91.4 hm³) June 13 (elevation, 5,560.1 ft or 1,694.72 m); minimum, 23,880 acre-ft (29.4 hm³) Sept. 30 (elevation, 5,516.8 ft or 1,681.52 m).

Period of record: Maximum contents, 75,280 acre-ft (92.9 hm³) June 8, 1964; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft (91.2 hm³) between elevation 5,450 ft (1,661.2 m) (bottom of outlet tunnel) and 5,560 ft (1,694.7 m) (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation on the Echo project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

Capacity table (elevation, in feet, and usable contents, in acre-feet)			
5,516	23,210	5,545	53,360
5,520	26,620	5,550	59,880
5,525	31,180	5,555	66,740
5,530	36,100	5,560	73,940
5,535	41,440	5,561	75,420
5,540	47,200		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40,880	35,290	37,870	48,650	51,600	53,360	51,600	47,440	70,440	71,020	54,120	36,410
2	40,780	35,290	38,180	49,010	51,720	53,620	51,600	47,560	70,440	70,300	53,620	35,700
3	40,780	35,290	38,500	49,380	51,720	53,620	51,600	47,680	70,440	69,720	52,980	35,080
4	40,560	35,290	38,820	49,500	51,850	53,620	51,480	47,560	71,020	69,290	52,350	34,580
5	40,330	35,290	39,140	49,870	51,850	53,620	51,350	47,440	71,600	68,720	51,850	34,080
6	40,330	35,290	39,360	49,990	51,850	53,360	51,230	48,520	72,180	68,290	51,230	33,690
7	40,120	35,290	39,580	50,110	51,850	53,230	51,100	50,110	73,060	67,730	50,730	33,100
8	39,900	35,290	39,900	50,240	51,850	53,110	51,100	52,480	73,060	67,020	50,110	32,620
9	39,680	35,290	40,120	50,240	51,850	52,980	50,980	55,150	73,360	66,460	49,620	32,130
10	39,580	35,290	40,330	50,360	51,970	52,860	50,850	58,150	73,360	65,620	49,130	31,650
11	39,470	35,290	40,560	50,360	51,970	52,730	50,850	60,950	73,360	65,060	48,770	31,080
12	39,140	35,290	41,000	50,360	52,100	52,600	50,980	62,310	73,940	64,230	48,280	30,610
13	38,820	35,290	41,440	50,360	52,100	52,480	50,610	63,680	74,090	63,400	47,800	30,240
14	38,400	35,190	41,880	50,360	52,100	52,350	49,620	64,920	73,940	62,860	47,320	29,870
15	37,970	35,190	42,220	50,480	52,100	52,350	48,770	65,900	73,650	62,040	46,840	29,500
16	37,550	35,190	42,550	50,480	52,100	52,350	47,920	66,600	73,650	61,630	46,250	29,040
17	37,450	35,080	43,010	50,610	52,100	52,350	47,080	67,300	73,650	61,220	45,540	28,760
18	37,240	35,080	43,460	50,730	52,220	52,480	46,490	67,730	73,650	60,950	44,840	28,400
19	37,030	35,190	43,810	50,850	52,220	52,480	45,780	68,150	73,940	60,550	44,380	28,040
20	36,820	35,190	44,150	50,980	52,350	52,600	45,310	68,580	73,940	60,150	43,810	27,680
21	36,620	35,290	44,500	51,100	52,600	52,480	44,730	68,860	73,940	59,740	43,240	27,330
22	36,410	35,590	44,840	51,100	52,860	52,350	44,150	69,010	73,940	59,340	42,670	26,800
23	36,200	35,800	45,190	51,100	53,110	52,350	43,690	68,860	73,940	58,810	42,110	26,440
24	36,000	36,000	45,540	51,230	53,110	52,100	43,690	68,860	73,940	58,280	41,440	25,920
25	35,900	36,310	45,900	51,350	53,110	51,970	43,920	68,860	73,940	57,760	40,880	25,490
26	35,800	36,520	46,370	51,350	53,230	51,850	44,730	68,860	73,650	57,230	40,330	25,060
27	35,700	36,820	46,720	51,350	53,230	51,720	45,900	68,860	73,210	56,710	39,790	24,630
28	35,590	37,130	47,080	51,480	53,360	51,600	46,610	69,290	72,620	56,190	39,250	24,380
29	35,490	37,340	47,440	51,480	-----	51,720	47,080	69,580	72,040	55,800	38,610	24,040
30	35,490	37,550	47,920	51,600	-----	51,600	47,440	70,010	71,600	55,150	37,870	23,880
31	35,390	-----	48,280	51,600	-----	51,600	-----	70,440	-----	54,640	37,130	-----
MAX	40,880	37,550	48,280	51,600	53,360	53,620	51,600	70,440	74,090	71,020	54,120	36,410
MIN	35,390	35,080	37,870	48,650	51,600	51,600	43,690	47,440	70,440	54,640	37,130	23,880
(†)	5,529.3	5,531.4	5,540.9	5,543.6	5,545.0	5,543.6	5,540.2	5,557.6	5,558.4	5,546.0	5,531.0	5,516.8
(‡)	-5,610	+2,160	+10,730	+3,320	+1,760	-1,760	-4,160	+23,000	+1,160	-16,960	-17,510	-13,250

CAL YR 1973. † -7,390

WTR YR 1974. ‡ -17,120

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

WEBER RIVER BASIN

10132490 Lost Creek Reservoir near Croydon, Utah

LOCATION.--Lat 41°11'05", long 111°23'59", in NW¼SE¼NE¼ sec.8, T.5 N., R.5 E., Morgan County, 2 miles (3.2 km) upstream from Hell Canyon and 10 miles (16.1 km) northeast of Croydon.

DRAINAGE AREA.--123 sq mi (319 km²) (revised).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape gage in gage house on top of dam. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 20,820 acre-ft (25.7 hm³) May 19, 20 (elevation, 6,007.2 ft or 1,830.99 m); minimum contents observed, 11,770 acre-ft (14.5 hm³) Sept. 30.

Period of record: Maximum contents, 20,820 acre-ft (25.7 hm³), May 12, 13, 18, 1969, June 7, 1972, May 19, 20, 1974 (elevation, 6,007.2 ft or 1,830.99 m). Minimum since original filling of reservoir, 8,670 acre-ft (10.7 hm³), Apr. 3, 1969.

REMARKS.--Reservoir is formed by earth-fill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft (24.7 hm³) at elevation 6,005.0 ft (1,830.32 m) above mean sea level. Dead storage, 2,500 acre-ft (3.08 hm³) between elevation 5,835.0 (1,778.51 m) (streambed at dam axis) and 5,912.3 ft (1,802.07 m) (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

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

5,975	10,540	5,995	16,510
5,980	11,910	6,000	18,220
5,985	13,350	6,005	20,010
5,990	14,890	6,008	21,120

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,590	12,560	13,000	13,380	13,870	14,270	14,020	16,250	20,520	19,860	16,870	13,770
2	12,620	12,590	13,000	13,380	13,900	14,300	14,020	16,480	20,520	19,820	16,770	13,680
3	12,590	12,620	13,000	13,410	13,900	14,330	14,050	16,770	20,480	19,790	16,680	13,590
4	12,560	12,620		13,410	13,930	14,360	14,020	17,080	20,410	19,750	16,580	13,470
5	12,540	12,650		13,440	13,960	14,360	14,020	17,320	20,410	19,680	16,480	13,440
6	12,480	12,650		13,470	13,960	14,390	13,990	17,660	20,410	19,570	16,380	13,380
7	12,450	12,680		13,470	13,960	14,360	13,990	18,010	20,370	19,460	16,280	13,290
8	12,420	12,680		13,500	13,990	14,330	13,960	18,360	20,370	19,350	16,180	13,230
9	12,390	12,700		13,530	13,990	14,300	13,960	18,680	20,370	19,240	16,080	13,150
10	12,390	12,730	13,120	13,530	13,990	14,270	13,930	19,030	20,370	19,140	15,950	13,090
11	12,420	12,730	13,120	13,560	14,020	14,240	13,960	19,640	20,330	19,030	15,850	13,030
12	12,420	12,760	13,150	13,560	14,020	14,210	13,960	20,560	20,330	18,920	15,750	12,970
13	12,420	12,760	13,150	13,590	14,050	14,210	13,960	20,740	20,300	18,820	15,660	12,880
14	12,420	12,790	13,180	13,590	14,050	14,180	13,960	20,740	20,300	18,710	15,530	12,820
15	12,450	12,820	13,180	13,620	14,080	14,150	13,990	20,740	20,300	18,600	15,430	12,760
16	12,450	12,820	13,200	13,620	14,080	14,150	13,990	20,740	20,300	18,500	15,340	12,700
17	12,450	12,820	13,200	13,650	14,080	14,150	14,020	20,780	20,260	18,360	15,210	12,650
18	12,480	12,850	13,230	13,650	14,120	14,180	14,050	20,780	20,260	18,220	15,110	12,590
19	12,480	12,880	13,230	13,680	14,150	14,180	14,120	20,820	20,260	18,120	15,020	12,510
20	12,480	12,910	13,230	13,680	14,150	14,180	14,210	20,820	20,260	18,010	14,890	12,450
21	12,480	12,910	13,230	13,710	14,180	14,150	14,300	20,740	20,230	17,900	14,800	12,390
22	12,480	12,910	13,260	13,740	14,180	14,150	14,390	20,700	20,230	17,760	14,670	12,340
23	12,510	12,940	13,260	13,740	14,180	14,120	14,460	20,670	20,230	17,730	14,550	12,250
24	12,510	12,940	13,290	13,740	14,210	14,120	14,580	20,630	20,230	17,660	14,460	12,190
25	12,510	12,940	13,290	13,770	14,210	14,080	14,770	20,590	20,190	17,590	14,360	12,130
26	12,540	12,970	13,290	13,770	14,210	14,050	14,990	20,590	20,080	17,490	14,270	12,050
27	12,540	12,970	13,320	13,800	14,240	14,020	15,400	20,590	20,050	17,380	14,180	11,970
28	12,540	13,000	13,320	13,840	14,240	14,020	15,720	20,590	20,010	17,280	14,080	11,910
29	12,540	13,000	13,320	13,840	-----	14,020	15,950	20,590	19,970	17,150	14,020	11,850
30	12,540	13,000	13,350	13,870	-----	14,020	16,150	20,560	19,900	17,080	13,930	11,770
31	12,540	-----	13,350	13,870	-----	14,020	-----	20,560	-----	16,980	13,840	-----
MAX	12,620	13,000		13,870	14,240	14,390	16,150	20,820	20,520	19,860	16,870	13,770
MIN	12,390	12,560		13,380	13,870	14,020	13,930	16,250	19,900	16,980	13,840	11,770
(+)	5,982.2	5,983.8	5,985.0	5,986.7	5,987.9	5,987.2	5,993.9	6,006.5	6,004.7	5,996.4	5,986.6	5,979.5
(‡)	-20	+460	+350	+520	+370	-220	+2,130	+4,410	-660	-2,920	-3,140	-2,070

CAL YR 1973. ‡ -1,230
WTR YR 1974. ‡ -790

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

10133700 Threemile Creek near Park City, Utah

LOCATION.--Lat 40°43'32", long 111°33'44", in NW¼NE¼NW¼ sec. 24, T.1 S., R.3 E., Summit County, on left bank 1,000 ft (305 m) upstream from Threemile Creek Reservoir, 0.9 mile (1.4 km) southwest from the Hi Ute Ranch road junction with U.S. Highway 40, 1.1 miles (1.8 km) upstream from mouth, and 5.5 miles (8.9 km) northwest of Park City.

DRAINAGE AREA.--2.68 sq mi (6.94 km²).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,490 ft (1,978 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 2.13 ft³/s (0.0603 m³/s), 1,540 acre-ft/yr (1.90 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13 ft³/s (0.37 m³/s) May 11 (gage height, 1.15 ft or 0.351 m); maximum gage height, 1.15 ft (0.351 m) May 11; minimum, 0.82 ft³/s (0.023 m³/s) Dec. 10, 11.

Period of record: Maximum discharge, 15 ft³/s (0.42 m³/s) May 21, 1967 (gage height, 1.08 ft or 0.329 m); minimum, 0.3 ft³/s (0.008 m³/s) Apr. 6, 8, 14, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	1.0	.95	1.0	1.0	1.4	6.4	5.0	3.1	1.8	1.5
2	1.4	1.2	.95	.95	1.0	1.0	1.4	6.8	6.2	3.2	1.8	1.4
3	1.4	1.2	.98	.95	1.0	1.0	1.3	7.3	6.1	3.2	1.9	1.5
4	1.4	1.2	1.0	.95	1.0	1.0	1.3	7.3	5.7	3.1	1.8	1.5
5	1.4	1.2	1.0	.95	1.0	1.0	1.4	7.9	5.6	3.0	1.7	1.4
6	1.3	1.2	1.0	.95	1.0	1.0	1.3	8.5	5.2	3.0	1.7	1.4
7	1.3	1.3	.94	.95	1.0	1.0	1.2	8.9	5.3	2.9	1.7	1.4
8	1.4	1.3	.94	.95	1.0	.99	1.2	9.5	5.1	2.9	1.7	1.4
9	1.4	1.2	.99	.95	1.0	.99	1.3	9.9	4.8	2.8	1.7	1.3
10	1.4	1.2	1.0	.95	1.0	.97	1.4	11	4.5	2.8	1.6	1.3
11	1.4	1.2	.92	1.0	1.0	.96	1.5	12	4.5	2.8	1.6	1.2
12	1.4	1.2	1.0	1.0	1.0	1.0	1.8	12	4.5	2.7	1.6	1.2
13	1.4	1.2	1.0	1.0	1.0	1.0	1.7	12	4.4	2.7	1.5	1.2
14	1.4	1.2	1.0	1.0	1.0	1.1	1.8	10	4.3	2.6	1.5	1.2
15	1.4	1.1	1.0	1.0	1.0	1.1	1.8	9.7	4.2	2.7	1.5	1.2
16	1.4	1.1	.95	1.0	1.0	1.1	1.8	9.0	4.2	2.5	1.5	1.2
17	1.4	1.1	.94	1.0	1.0	1.1	2.2	8.3	4.1	2.6	1.5	1.2
18	1.3	1.2	.99	1.0	1.0	1.1	2.3	7.8	4.2	2.6	1.5	1.1
19	1.3	1.2	1.0	1.0	1.0	1.1	2.8	7.7	4.0	2.4	1.7	1.1
20	1.3	1.1	1.0	1.0	1.0	1.2	3.2	7.4	3.9	2.4	1.8	1.0
21	1.3	1.1	1.1	1.0	1.0	1.1	3.3	7.0	3.9	2.3	1.6	1.0
22	1.3	1.1	1.1	1.0	1.0	1.2	3.8	6.6	3.7	2.3	1.6	1.0
23	1.3	1.1	1.0	1.0	1.0	1.1	4.4	6.4	3.6	2.2	1.6	1.0
24	1.3	1.1	1.0	1.0	1.0	1.1	5.2	6.0	3.6	2.1	1.5	1.0
25	1.3	1.1	1.0	1.0	1.0	1.1	6.3	6.0	3.5	2.0	1.5	.96
26	1.3	1.0	1.0	1.0	1.0	1.3	6.9	5.8	3.4	2.0	1.5	.94
27	1.3	1.0	1.1	1.0	1.0	1.3	6.8	6.2	3.4	2.0	1.5	.99
28	1.3	1.0	1.1	1.0	1.0	1.2	6.5	6.8	3.3	1.9	1.5	.99
29	1.3	1.0	1.1	1.0	-----	1.2	6.6	6.6	3.2	1.9	1.5	.99
30	1.3	1.0	1.1	1.0	-----	1.5	6.1	5.6	3.2	1.8	1.5	.99
31	1.3	-----	1.0	1.0	-----	1.4	-----	5.0	-----	1.8	1.5	-----
TOTAL	41.7	34.4	31.20	30.50	28.0	34.21	89.4	247.4	130.6	78.3	49.9	35.56
MEAN	1.35	1.15	1.01	.98	1.00	1.10	2.98	7.98	4.35	2.53	1.61	1.19
MAX	1.4	1.3	1.1	1.0	1.0	1.5	6.9	12	6.2	3.2	1.9	1.5
MIN	1.3	1.0	.92	.95	1.0	.96	1.2	5.0	3.2	1.8	1.5	.94
AC-FT	83	68	62	60	56	68	177	491	259	155	99	71

CAL YR 1973 TOTAL 769.18 MEAN 2.11 MAX 7.7 MIN .80 AC-FT 1,530

WTR YR 1974 TOTAL 831.17 MEAN 2.28 MAX 12 MIN .92 AC-FT 1,650

PEAK DISCHARGE (BASE, 4.0 CFS),--May 11 (0100) 13 cfs (1.15 ft).

NOTE.--No gage-height record Jan. 2 to Mar. 3.

10134000 East Canyon Reservoir near Morgan, Utah

LOCATION.--Lat 40°55'14", long 111°35'59", in NE¼SE¼NW¼ sec.10, T.2 N., R.3 E., Morgan County, on upstream face of concrete dam on East Canyon Creek, 9 miles (14.5 km) southeast of Morgan.

DRAINAGE AREA.--155 sq mi (401 km²), approximately.

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is at mean sea level, datum of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft (150 m) east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

EXTREMES.--Current year: Maximum contents observed, 48,660 acre-ft (60.0 hm³) June 8 (elevation, 5,705.8 ft or 1,739.13 m); minimum observed, 29,610 acre-ft (36.5 hm³) Sept. 28 (elevation, 5,674.1 ft or 1,729.47 m).
Period of record: Maximum contents, 48,940 acre-ft (60.4 hm³) May 26, 1973; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

REMARKS.--Reservoir was formed in 1896 by a 58-ft (18 m) rockfill dam (capacity, 3,850 acre-ft or 4.75 hm³), which was raised 25 ft (7.6 m) in 1900 (capacity, 9,000 acre-ft or 11.1 hm³), raised 12 ft (3.7 m) more in 1902 (capacity, 14,000 acre-ft or 17.3 hm³), was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (31.8 hm³) (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft (59.3 hm³) between elevation 5,577.0 (1,699.87 m) and 5,705.0 ft (1,738.88 m). Dead storage, 3,090 acre-ft (3.81 hm³). Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

REVISIONS.--WSP 1634: Drainage area.

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

5,674	29,560	5,695	41,550
5,675	30,080	5,700	44,760
5,680	32,730	5,705	48,110
5,685	35,530	5,706	48,800
5,690	38,470		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			35,360						48,390			
2					39,010	40,360						
3		33,720									40,800	
4								45,950				
5				37,330								
6	32,410						41,170			47,910		
7												30,760
8			35,820						48,660			
9					39,250	40,670						
10		34,110									38,530	
11								48,320				
12				37,450								
13	32,620						41,170			46,890		
14												29,980
15			36,110						48,460			
16					39,620	40,300						
17		34,560									36,280	
18								48,320				
19	32,840			37,580								
20							41,800			44,890		
21												29,660
22			36,570						48,390			
23					39,930	40,920					34,330	
24		35,020										
25								47,700				
26	33,220			38,650								
27							44,300			43,010		
28					a40,240							29,610
29			36,920		-----				48,250			
30		a35,310			-----		41,110	a45,010	a48,200			a29,730
31	a33,530	-----	a37,040	a38,910	-----	a41,120	-----	a48,290	-----	a41,750	32,410	-----
(†)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5,679.4	-----
(‡)	+1,080	+1,780	+1,730	+1,870	+1,330	+880	+3,890	+3,280	-90	-6,450	-9,340	-2,680

CAL YR 1973. ‡ -2,060

WTR YR 1974. ‡ -2,720

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

a No gage-height reading; contents interpolated.

WEBER RIVER BASIN

199

10134500 East Canyon Creek near Morgan, Utah

LOCATION.--Lat 40°55'21", long 111°36'23", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.2 N., R.3 E., Morgan County, on right bank 2,500 ft (762 m) downstream from East Canyon Dam, 2.5 miles (4.0 km) upstream from Sheep Canyon, and 9 miles (14 km) southeast of Morgan.

DRAINAGE AREA.--155 sq mi (400 km²), approximately.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Altitude of gage is 5,460 ft (1,664 m) from river-profile map.

AVERAGE DISCHARGE.--43 years, 51.9 ft³/s (1.470 m³/s), 37,600 acre-ft/yr (46.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 302 ft³/s (8.55 m³/s) May 12, 13 (gage height, 1.75 ft or 0.533 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Sept. 29, 30.

Period of record: Maximum discharge, 872 ft³/s (24.7 m³/s) May 4, 1952 (gage height, 3.49 ft or 1.064 m); minimum daily, 0.2 ft³/s (0.057 m³/s) Dec. 19, 20, 1964.

REMARKS.--Records good. No diversions between station and East Canyon Reservoir (see preceding page) which completely regulates flow.

REVISIONS.--WSP 1634: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	8.5	8.5	8.5	9.1	10	130	132	101	73	194	114
2	27	8.5	8.5	8.5	9.1	31	130	133	107	71	194	114
3	27	8.5	8.5	8.5	9.1	44	130	133	125	70	193	113
4	27	8.5	8.5	8.5	9.1	44	130	151	134	71	190	113
5	27	8.5	8.5	8.5	9.1	44	130	160	142	70	190	113
6	26	8.4	8.5	8.5	9.1	44	130	160	154	101	190	114
7	27	8.5	8.5	8.5	9.1	44	130	167	156	113	189	99
8	27	8.5	8.5	8.5	9.4	44	130	197	158	115	187	91
9	28	8.5	8.5	8.5	9.7	106	130	216	151	115	186	91
10	28	8.5	8.5	8.5	9.7	139	131	221	138	115	185	91
11	28	8.5	8.5	8.5	9.7	138	131	252	126	115	185	91
12	28	8.5	8.5	8.5	9.7	138	131	287	117	115	182	90
13	21	8.5	8.4	8.5	9.3	137	131	297	110	161	182	90
14	9.7	8.5	8.5	8.5	9.7	138	132	292	106	175	182	57
15	9.7	8.5	8.5	8.5	9.7	138	132	280	102	175	181	39
16	9.7	8.5	8.5	8.5	9.7	133	132	267	98	177	178	39
17	9.7	8.5	8.5	8.5	9.7	130	132	254	95	175	178	39
18	9.7	8.5	8.5	8.5	9.7	130	132	241	95	176	177	39
19	9.7	8.5	8.5	8.5	10	130	132	233	92	175	177	38
20	9.7	8.5	8.5	8.5	10	130	129	228	86	175	175	38
21	9.7	8.5	8.5	8.5	10	130	128	223	81	174	174	29
22	9.7	8.5	8.5	8.5	10	130	128	219	77	175	174	24
23	9.7	8.5	8.5	8.5	10	131	129	218	73	175	168	24
24	9.7	8.5	8.5	8.5	9.8	130	132	218	69	175	143	24
25	9.7	8.5	8.5	8.4	9.7	131	131	139	66	173	142	22
26	9.0	8.5	8.5	8.4	9.7	132	132	104	61	173	141	23
27	9.0	8.5	8.5	8.4	9.8	130	132	104	58	190	141	23
28	9.0	8.5	8.5	8.5	10	130	132	104	55	195	139	11
29	9.0	8.5	8.5	8.6	-----	130	132	111	77	195	139	6.6
30	9.0	8.5	8.5	9.0	-----	130	132	124	77	195	138	6.6
31	9.0	-----	8.5	9.0	-----	130	-----	138	-----	195	123	-----
TOTAL	518.4	254.9	263.4	264.3	268.7	3,326	3,923	6,003	3,087	4,548	5,317	1,806.2
MEAN	16.7	8.50	8.50	8.53	9.60	107	131	194	103	147	172	60.2
MAX	28	8.5	8.5	9.0	10	139	132	297	158	195	194	114
MIN	9.0	8.4	8.4	8.4	9.1	10	128	104	55	70	123	6.6
AC-FT	1,030	506	522	524	533	6,600	7,780	11,910	6,120	9,020	10,550	3,580

CAL YR 1973 TOTAL 28,395.7 MEAN 77.8 MAX 307 MIN 8.4 AC-FT 56,320
WTR YR 1974 TOTAL 29,579.9 MEAN 81.0 MAX 297 MIN 6.6 AC-FT 58,670

201

LOCATION.—Lat 41°16'07", long 111°40'24" in SE 1/4 sec. 12, T. 6 N., R. 2 E., Weber County, on right bank 0.5 mile (0.8 km) downstream from Maggie Creek, 1 mile (2 km) upstream from Huntsville Mountain Canal, 5 miles (8 km) downstream from Causey Dam, and 5.5 miles (8.9 km) east of Huntsville.

PERIOD OF RECORD.--March 1921 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft (1,582 m) by barometer. Prior to Aug. 14, 1934, at site 300 ft (91 m) upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) May 10 (gage height, 4.90 ft or 1.494 m); minimum daily, 47 ft³/s (1.33 m³/s) several days in October and December.

Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) May 3, 1952 (gage height, 5.98 ft or 1.823 m); minimum, 13 ft³/s (0.37 m³/s) Dec. 16, 1965.

REMARKS.--Records good. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	51	50	48	50	55	208	638	344	99	89	79
2	50	49	50	48	49	113	221	706	314	104	91	78
3	50	48	48	48	48	99	196	672	291	102	95	76
4	50	48	49	48	49	84	182	650	272	92	94	69
5	50	48	49	48	49	77	173	703	271	90	94	67
6	50	49	49	48	49	77	173	727	257	89	95	66
7	51	50	49	48	49	83	168	739	243	87	96	66
8	52	53	48	48	51	90	169	764	233	88	95	64
9	52	51	48	48	49	95	184	755	216	88	94	64
10	52	49	48	48	50	107	196	1,000	206	89	95	64
11	51	48	48	48	52	127	197	1,000	200	87	95	63
12	50	49	49	48	49	170	215	913	200	86	96	63
13	50	50	49	48	48	182	200	827	197	86	96	63
14	50	51	48	48	48	178	194	734	195	85	93	63
15	50	49	48	48	48	263	190	662	193	90	92	60
16	49	49	48	48	49	332	190	637	189	101	91	54
17	48	50	48	48	50	362	208	603	182	93	89	50
18	48	53	48	48	50	396	242	611	174	87	89	50
19	48	52	47	48	52	331	272	597	167	86	89	50
20	48	50	47	48	51	292	281	559	162	86	90	50
21	48	50	48	48	50	242	266	472	154	86	91	50
22	48	49	48	48	51	211	322	431	147	86	90	50
23	48	49	48	48	50	199	409	420	136	86	90	50
24	49	49	47	48	53	193	550	442	125	85	90	50
25	49	48	47	48	50	186	662	474	120	88	88	50
26	48	49	47	48	50	189	707	499	115	92	88	50
27	48	48	48	48	50	203	715	520	112	92	88	50
28	48	48	50	48	50	224	604	520	106	92	84	50
29	47	48	50	48	-----	205	557	477	101	92	77	50
30	47	49	49	48	-----	207	575	428	99	91	79	50
31	47	-----	49	49	-----	213	-----	383	-----	89	79	-----
TOTAL	1,526	1,484	1,499	1,489	1,394	5,785	9,426	19,563	5,721	2,794	2,802	1,759
MEAN	49.2	49.5	48.4	48.0	49.8	187	314	631	191	90.1	90.4	58.6
MAX	52	53	50	49	53	396	715	1,000	344	104	96	79
MIN	47	48	47	48	48	55	168	383	99	85	77	50
AC-FT	3,030	2,940	2,970	2,950	2,760	11,470	18,700	38,800	11,350	5,540	5,560	3,490
CAL YR 1973	TOTAL 43,753		MEAN 120	MAX 758	MIN 36	AC-FT 86,780						
WTR YR 1974	TOTAL 55,242		MEAN 151	MAX 1,000	MIN 47	AC-FT 109,600						

WEBER RIVER BASIN

10137680 North Fork Ogden River near Eden, Utah

LOCATION.--Lat 41°23'23", long 111°54'51", in NW¼SE¼NE¼ sec.35, T.8 N., R.1 W., Weber County, on right bank 0.4 mile (0.6 km) upstream from flood-retarding dam and 7.5 miles (12.1 km) northwest of Eden.

DRAINAGE AREA.--6.03 mi² (15.62 km²).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 12.1 ft³/s (0.343 m³/s), 8,770 acre-ft/yr (10.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 89 ft³/s (2.52 m³/s) April 25 (gage height, 2.19 ft or 0.668 m); minimum, 0.95 ft³/s (0.027 m³/s) Feb. 8.

Period of record: Maximum discharge, 156 ft³/s (4.42 m³/s) Jan. 21, 1969 (gage height, 2.72 ft or 0.829 m); minimum recorded, 0.8 ft³/s (0.023 m³/s) Jan. 23, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.4	4.0	3.2	4.0	5.6	23	39	31	8.9	4.0	2.9
2	3.7	3.7	4.1	3.2	4.0	10	22	48	30	9.3	4.2	2.9
3	3.7	3.4	3.7	2.9	4.0	8.6	18	45	29	8.9	4.3	2.9
4	3.7	3.2	3.7	2.9	3.7	7.8	16	42	29	8.5	4.0	2.9
5	3.7	3.4	3.4	3.2	4.0	6.8	13	47	29	8.2	4.0	2.6
6	3.7	3.7	3.2	3.2	4.0	6.6	13	54	26	7.9	4.0	2.6
7	3.4	5.5	4.0	3.2	4.0	6.5	14	63	25	7.6	4.0	2.6
8	6.5	7.3	3.4	3.2	4.0	6.2	16	73	23	7.4	4.3	2.6
9	5.0	4.7	2.4	3.2	3.7	6.4	19	78	19	7.1	4.0	2.6
10	4.5	4.2	2.9	3.2	3.7	7.2	19	71	18	7.0	3.7	2.6
11	4.3	3.9	3.4	3.2	4.0	8.1	19	58	18	6.9	3.7	2.9
12	4.2	4.2	3.4	3.2	4.0	9.0	19	49	18	6.6	3.4	2.9
13	4.0	4.5	3.4	3.2	3.8	12	16	41	18	6.3	3.2	2.9
14	3.9	4.4	3.4	3.2	3.7	13	16	35	18	6.1	3.2	2.9
15	3.8	4.0	3.2	3.2	3.8	17	19	32	17	6.1	3.4	2.9
16	3.7	3.9	3.2	4.0	3.7	20	24	30	16	6.2	3.4	2.6
17	3.7	4.2	3.4	6.6	4.0	24	30	30	16	6.0	3.2	2.6
18	3.4	4.9	3.4	5.9	3.7	26	32	29	15	5.8	3.2	2.6
19	3.4	4.4	2.4	5.3	4.0	22	35	29	14	5.7	3.2	2.6
20	3.4	4.0	3.2	4.9	4.0	19	37	28	14	5.8	3.2	2.6
21	3.2	4.0	3.4	4.6	3.7	17	35	26	13	5.5	3.2	2.6
22	3.2	3.7	3.2	4.6	4.0	16	40	25	13	5.2	3.2	2.6
23	3.4	3.7	3.2	4.5	3.7	14	53	25	12	5.0	3.2	2.6
24	3.8	4.0	3.2	4.0	4.6	14	69	25	12	4.9	2.9	2.4
25	3.7	3.7	3.2	4.0	4.4	17	77	27	11	4.6	2.9	2.4
26	3.4	3.9	2.9	4.0	4.2	20	71	30	11	4.5	2.9	2.6
27	3.2	3.7	3.4	4.0	4.0	21	50	34	10	4.3	2.6	2.6
28	3.2	3.4	3.4	4.0	4.2	23	35	35	9.9	4.3	2.6	2.9
29	3.4	3.7	3.4	3.7	-----	21	31	35	9.5	4.3	2.9	2.6
30	3.4	3.9	3.4	3.8	-----	23	33	34	9.2	4.3	2.9	2.6
31	3.7	-----	3.2	3.8	-----	24	-----	34	-----	4.0	2.9	-----
TOTAL	117.1	123.6	103.1	119.1	110.6	451.8	914	1,253	533.6	193.2	105.8	80.6
MEAN	3.78	4.12	3.33	3.84	3.95	14.6	30.5	40.4	17.8	6.23	3.41	2.69
MAX	6.5	7.3	4.1	6.6	4.6	26	77	78	31	9.3	4.3	2.9
MIN	3.2	3.2	2.4	2.9	3.7	5.6	13	25	9.2	4.0	2.6	2.4
AC-FT	232	245	204	236	219	896	1,810	2,490	1,060	383	210	160

CAL YR 1973 TOTAL 5,094.7 MEAN 14.0 MAX 98 MIN 2.4 AC-FT 10,110
WTR YR 1974 TOTAL 4,105.5 MEAN 11.2 MAX 78 MIN 2.4 AC-FT 8,140

PEAK DISCHARGE (BASE, 45 CFS).--Apr. 25 (1900) 89 cfs (2.19 ft); May 9 (2000) 83 cfs (2.15 ft).

10137780 Middle Fork Ogden River above diversions, near Huntsville, Utah

LOCATION.--Lat 41°19'59", long 111°44'04", in NE¼NW¼SW¼ sec. 33, T.7 N., R.2 E., Weber County, on right bank 0.2 mile (0.3 km) above diversion headgate, 3 miles (4.8 km) northeast of Huntsville, and 6.5 miles (10.5 km) upstream from Pine View Dam.

DRAINAGE AREA.--31.3 mi² (81.1 km²).

PERIOD OF RECORD.--October 1963 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 31.8 ft³/s (0.901 m³/s), 23,040 acre-ft/yr (28.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 548 ft³/s (15.5 m³/s) May 9 (gage height, 3.60 ft or 1.097 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 9-11.

Period of record: Maximum discharge, 744 ft³/s (21.1 m³/s) May 18, 1967 (gage height, 3.66 ft or 1.12 m); minimum, 0.4 ft³/s (0.011 m³/s) Aug. 18, 1964, Aug. 18, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	5.8	3.5	3.0	4.5	15	72	120	84	5.6	1.7	.96
2	1.6	3.8	3.5	3.0	4.5	30	65	150	76	5.8	1.7	.90
3	1.7	3.3	3.5	3.0	4.5	25	55	140	69	6.0	2.6	.87
4	1.8	3.2	3.5	3.0	4.5	20	46	130	66	5.3	2.1	.94
5	1.9	3.8	3.5	3.0	4.5	18	41	170	65	4.8	1.7	.97
6	1.9	3.4	3.5	3.0	4.5	17	42	230	56	4.3	1.8	.97
7	1.9	4.6	3.5	3.0	4.5	18	48	300	52	4.0	2.1	.94
8	2.5	8.5	3.5	3.0	4.5	19	55	400	47	3.6	2.3	.91
9	3.6	6.1	3.5	3.0	4.5	20	58	517	42	3.6	2.0	.88
10	2.8	4.5	3.5	3.0	4.5	23	59	400	37	3.2	1.9	.85
11	2.6	3.8	3.0	3.0	4.5	29	56	330	33	3.0	1.8	.80
12	2.5	4.0	3.0	3.0	4.5	36	53	240	30	3.0	1.7	1.3
13	2.5	4.6	3.0	3.0	4.5	47	50	203	28	2.9	1.7	1.6
14	2.4	4.9	3.0	3.0	4.5	50	48	191	26	2.6	1.6	1.7
15	2.3	4.4	3.0	3.0	4.5	63	50	178	24	2.6	1.5	1.7
16	2.3	4.3	3.0	5.0	4.5	80	68	163	20	2.9	1.5	1.8
17	2.3	4.7	3.0	10	4.5	99	80	160	19	3.0	1.5	1.7
18	2.3	5.0	3.0	9.0	4.5	113	100	159	17	2.9	1.4	1.6
19	2.3	5.2	3.0	8.0	4.5	98	110	145	14	2.6	1.3	1.6
20	2.3	4.3	3.0	7.5	4.5	85	115	130	14	2.4	1.2	1.6
21	2.3	4.0	3.0	6.8	4.5	72	100	107	12	2.4	1.3	1.5
22	2.3	3.7	3.0	6.5	4.5	64	110	94	12	2.4	1.4	1.5
23	2.4	3.5	3.0	5.5	4.5	56	140	99	10	2.2	1.4	1.5
24	3.1	3.5	3.0	5.2	4.5	51	190	110	9.7	2.2	1.3	1.5
25	2.9	3.5	3.0	5.0	4.5	53	230	120	8.1	2.0	1.2	1.5
26	2.7	3.5	3.0	4.8	5.2	63	210	131	7.8	1.7	1.3	1.5
27	2.6	3.5	3.0	4.5	7.0	71	190	142	7.2	1.8	1.3	1.5
28	2.5	3.5	3.0	4.5	10	77	150	142	6.9	1.8	1.2	1.7
29	2.7	3.5	3.0	4.5	-----	73	100	129	6.3	1.7	1.1	1.8
30	2.6	3.5	3.0	4.5	-----	74	100	110	5.8	1.7	1.1	1.8
31	2.9	-----	3.0	4.5	-----	77	-----	95	-----	1.7	1.0	-----
TOTAL	74.2	127.9	98.0	140.8	134.7	1,636	2,791	5,735	904.8	95.7	48.7	40.39
MEAN	2.39	4.26	3.16	4.54	4.81	52.8	93.0	185	30.2	3.09	1.57	1.35
MAX	3.6	8.5	3.5	10	10	113	230	517	84	6.0	2.6	1.8
MIN	1.6	3.2	3.0	3.0	4.5	15	41	94	5.8	1.7	1.0	.80
AC-FT	147	254	194	279	267	3,250	5,540	11,380	1,790	190	97	80
CAL YR 1973	TOTAL	11,815.60	MEAN	32.4	MAX	360	MIN	1.2	AC-FT	23,440		
WTR YR 1974	TOTAL	11,827.19	MEAN	32.4	MAX	517	MIN	.80	AC-FT	23,460		

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-18	0400	2.32	118	5-9	unknown	3.60	548
4-25	unknown	unknown	unknown	5-27	2100	2.35	169

NOTE.--No gage-height record Feb. 4 to Mar. 5, and Apr. 1 to May 12.

10139300 Wheeler Creek near Huntsville, Utah

LOCATION.—Lat 41°15'14", long 111°50'32", in SW¼NW¼SE¼ sec.16, T.6 N., R.1 E., Weber County, on right bank 150 ft (46 m) upstream from mouth, 150 ft (46 m) downstream from culvert under State Highway 39, 250 ft (76 m) downstream from Pine View Dam on Ogden River, 3.8 miles (6.1 km) west of Huntsville, and 6 miles (10 km) east of Ogden.

DRAINAGE AREA.—11.1 mi² (28.7 km²).

PERIOD OF RECORD.—October 1958 to current year.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 4,800 ft (1,463 m) from topographic map.

AVERAGE DISCHARGE.—16 years, 9.10 ft³/s (0.258 m³/s), 6,590 acre-ft/yr (8.13 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 73 ft³/s (2.07 m³/s) April 1 (gage height, 2.10 ft or 0.640 m); minimum, 0.75 ft³/s (0.021 m³/s) Dec. 9.

Period of record: Maximum discharge, about 400 ft³/s (11.3 m³/s) Dec. 24, 1964 (gage height, 3.58 ft or 1.091 m); no flow Dec. 5, 1962.

REMARKS.—Records good. Includes flow diverted around station by City of Ogden pipeline.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.9	2.1	1.7	2.5	3.6	37	28	41	16	4.6	2.9
2	1.8	1.6	2.2	1.6	2.3	18	41	30	39	17	4.5	2.9
3	1.8	1.7	1.8	1.5	2.3	11	23	32	39	16	4.5	2.9
4	1.9	1.7	1.9	1.5	2.2	7.5	17	31	39	15	4.3	2.9
5	1.8	1.6	1.6	1.5	2.4	6.3	15	36	40	14	4.2	2.8
6	1.9	1.7	1.5	1.4	2.3	7.5	17	40	36	13	4.2	2.7
7	1.8	2.2	1.7	1.4	2.3	9.3	17	40	33	12	4.2	2.5
8	2.4	2.5	1.7	1.4	2.2	11	19	41	29	11	4.0	2.5
9	2.1	1.9	1.4	1.4	2.2	13	21	46	25	12	3.9	2.4
10	2.0	1.7	1.3	1.4	2.2	14	21	55	24	11	3.8	2.4
11	1.9	1.7	1.6	1.4	2.2	12	22	50	25	9.3	3.9	2.3
12	1.9	2.0	1.6	1.5	2.2	17	30	47	25	7.2	3.8	2.3
13	1.8	2.1	1.6	1.6	2.2	22	21	47	29	6.9	3.7	2.3
14	1.8	2.1	1.5	1.5	2.0	24	18	39	30	6.9	3.5	2.3
15	1.6	1.6	1.5	1.6	2.0	49	18	35	31	6.7	3.5	2.3
16	1.6	1.7	1.5	2.2	2.0	46	18	32	31	6.6	3.5	2.1
17	1.6	1.8	1.6	4.1	2.0	48	23	30	29	6.2	3.3	2.1
18	1.5	3.2	1.6	4.6	2.0	53	27	32	28	6.2	3.3	2.0
19	1.5	2.5	1.5	5.5	2.2	32	36	34	27	5.9	3.2	2.0
20	1.5	2.1	1.4	4.4	2.1	24	45	32	27	5.8	3.2	2.0
21	1.6	2.1	1.6	3.3	2.3	20	35	30	25	5.9	3.3	1.8
22	1.6	1.8	1.6	3.1	2.0	17	39	30	24	5.6	3.3	1.8
23	1.7	1.8	1.6	3.1	2.0	15	48	30	22	5.4	3.2	1.8
24	1.7	1.9	1.5	2.7	2.0	16	48	27	21	5.3	3.1	1.8
25	1.7	1.8	1.5	2.7	2.1	20	50	28	19	5.4	3.1	1.6
26	1.6	1.8	1.4	2.6	2.0	24	49	32	19	5.1	3.0	1.6
27	1.6	1.8	1.7	2.5	1.9	37	39	38	18	4.9	2.9	1.6
28	1.6	1.7	1.8	2.5	2.0	36	30	43	17	4.8	2.9	1.6
29	1.7	1.8	1.9	2.4	-----	27	26	47	16	4.7	2.9	1.6
30	1.6	1.8	1.8	2.4	-----	36	25	47	16	4.7	2.8	1.5
31	1.6	-----	1.8	2.5	-----	31	-----	43	-----	4.5	2.9	-----
TOTAL	54.0	57.6	50.8	73.0	60.1	707.2	875	1,152	824	261.0	110.5	65.3
MEAN	1.74	1.92	1.64	2.35	2.15	22.8	29.2	37.2	27.5	8.42	3.56	2.18
MAX	2.4	3.2	2.2	5.5	2.5	53	50	55	41	17	4.6	2.9
MIN	1.5	1.6	1.3	1.4	1.9	3.6	15	27	16	4.5	2.8	1.5
AC-FT	107	114	101	145	119	1,400	1,740	2,280	1,630	518	219	130

CAL YR 1973 TOTAL 4,510.19 MEAN 12.4 MAX 124 MIN .80 AC-FT 8,950
 WTR YR 1974 TOTAL 4,290.50 MEAN 11.8 MAX 55 MIN 1.3 AC-FT 8,510

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-16	1600	2.07	71	4-23	2200	2.13	71
3-27	1700	1.97	50	5-10	1000	2.11	58
4-1	2200	2.10	73	5-29	2300	2.08	53

WEBER RIVER BASIN

205

10140800 Willard Bay Reservoir near Plain City, Utah

LOCATION.--Lat 41°21'17", long 112°04'24", in SE¼NE¼SW¼ sec.9, T.7 N., R.2 W., Box Elder County, on left bank of inlet channel 900 ft (274 m) downstream from pumping plant, 1.5 miles (2.4 km) west of the interchange on U.S. Highway 89 at Utah Hot Springs, and 3.4 miles (5.5 km) north of Plain City.

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

GAGE.--Inclined staff gage in concrete on northeast edge of boat ramp, readings were made on days shown. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 183,000 acre-ft (226 hm³) June 12 (elevation, 4,224.46 ft or 1,287.615 m); minimum contents observed, (157,300 acre-ft (194 hm³) Feb. 14 (elevation, 4,221.87 ft or 1,286.826 m).

Period of record: Maximum contents, 193,300 acre-ft (238 hm³) May 23-31, June 3-10, 12, 14, 15, 17, 1967, May 25, 1968; minimum observed contents since first year of storage, 70,600 acre-ft (87.1 hm³) Dec. 5, 1969 (elevation 4,213.01 ft or 1,284.125 m).

REMARKS.--Reservoir is formed by earth-fill dike between elevation 4,199.0 ft (1,279.855 m) (streambed at dam axis) and 4,235.0 ft (1,290.828 m) (crest of dam). Storage began Nov. 3, 1964 when reservoir was completed. Capacity, 193,300 acre-ft (238 hm³) between elevations 4,205.00 ft (1,281.684 m) (top of inactive storage) and 4,225.50 ft (1,287.932 m) (top of active storage) above mean sea level. Dead storage, 16,850 acre-ft (20.8 hm³). Figures given herein represent usable contents. Water is used for irrigation, recreation, and fish and wildlife propagation on the Weber Basin Project. This reservoir provides off-channel storage of water diverted from the Weber River 0.1 mile (0.2 km) downstream from the mouth of Ogden River, also water for irrigation will be pumped back to point of distribution through this same channel. Figures given represent usable storage.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

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

4,221	148,700	4,224	178,400
4,223	168,500	4,225	188,300

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					159,600	158,200				179,000	172,100	
2				158,200						177,800		
3			158,300						18,200			
4						158,200					171,100	164,000
5		160,700										
6								167,700				
7					158,400							
8	164,100									176,700	170,100	
9												163,200
10			158,100						182,800			
11						158,000						
12									183,000			
13		160,100						170,800			168,700	
14				158,100	157,300							
15	163,300								182,500			
16							159,200			175,400		161,300
17			158,100									
18						158,600						
19		160,200									167,500	
20								177,000	181,500			
21						158,600						
22				158,200			159,200					
23	162,200								181,300	174,000		
24			158,200									161,300
25						158,600			180,500			
26							159,200	181,600			166,700	
27												
28		160,300			158,200			182,400				
29					-----	158,200				173,000		
30		160,300			-----		163,100		179,400			159,900
31	160,600	-----	158,200	159,500	-----	158,200	-----	182,000	-----	172,400	165,200	-----
(†)	4,222.20	4,222.17	4,221.96	4,222.09	4,221.96	4,221.96	4,222.46	4,224.36	4,224.10	4,223.40	4,222.67	4,222.13
(‡)	-4.5	-0.3	-2.1	+1.3	-1.3	0	+4.9	+18.9	-2.6	-7.0	-7.2	-5.3

CAL YR 1973. ‡ +2.8
WTR YR 1974. ‡ -5.2

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

WEBER RIVER BASIN

10141000 Weber River near Plain City, Utah

LOCATION.—Lat 41°16'42", long 112°05'28", in NW¼NW¼NE¼ sec.8, T.6 N., R.2 W., Weber County, on upstream end of right highway bridge pier, on State Highway 40, 1 mile (2 km) downstream from Fourmile Creek, 1.5 miles (2.4 km) south of Plain City, and 6 miles (10 km) upstream from mouth.

DRAINAGE AREA.—2,060 mi² (5,340 km²), approximately.

PERIOD OF RECORD.—January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.—Water-stage recorder. Datum of gage is 4,207.10 ft (1,282.324 m) above mean sea level. Prior to Aug. 29, 1949, nonrecording gage, at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.—9 years (1966-74), 495 ft³/s (14.02 m³/s), 358,600 acre-ft/yr (442 hm³/yr) since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES.—Current year: Maximum discharge, 3,410 ft³/s (96.6 m³/s) May 10 (gage height, 15.03 ft or 4.581 m); minimum, 37 ft³/s (1.05 m³/s) July 26.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) May 6, 1952 (gage height, 19.01 ft or 5.794 m); practically no flow during latter part of several summers since 1915.

REMARKS.—Records good except for periods of no gage-height record, which are fair. Practically entire flow is generally diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	437	523	405	430	616	601	1,250	1,940	1,690	72	41	83
2	442	526	464	400	625	1,100	1,400	2,290	1,530	90	41	139
3	473	529	428	400	612	1,110	1,350	2,630	1,470	120	41	126
4	461	537	412	430	601	900	1,250	2,790	1,170	99	48	147
5	465	535	405	480	604	866	1,200	2,850	1,090	66	64	134
6	443	532	396	495	594	975	1,160	2,810	1,160	53	50	106
7	436	537	385	530	584	1,100	1,140	2,610	1,170	49	56	96
8	472	542	397	640	577	1,220	1,120	2,730	1,340	65	93	92
9	501	529	388	620	565	1,200	1,100	3,040	1,300	62	106	79
10	509	525	382	600	565	1,240	1,230	3,340	1,190	48	82	91
11	531	517	384	640	571	1,300	1,370	3,210	950	46	59	95
12	542	530	390	720	558	1,200	1,600	3,110	700	44	57	151
13	550	565	389	620	565	1,290	1,700	2,960	500	65	63	123
14	533	554	386	600	567	1,350	1,700	2,770	500	73	54	98
15	564	555	374	590	565	1,450	1,650	2,610	500	74	72	87
16	562	549	372	600	570	1,600	1,630	2,560	500	104	66	88
17	527	557	371	620	584	1,580	1,610	2,400	700	110	60	81
18	494	641	441	650	575	1,600	1,600	2,300	600	120	55	60
19	492	632	424	680	639	1,450	1,940	2,100	500	76	50	50
20	497	594	411	740	635	1,270	2,130	2,360	450	51	47	56
21	496	566	400	720	548	1,170	2,210	2,560	400	59	54	53
22	492	460	392	660	429	1,060	2,320	2,400	300	78	49	56
23	457	432	416	620	452	1,000	2,400	2,090	100	60	53	74
24	358	437	399	600	526	940	2,540	1,670	80	50	61	85
25	376	417	387	611	528	990	2,790	1,420	55	47	57	92
26	520	403	380	607	556	1,080	2,870	1,330	61	41	60	94
27	523	400	392	597	572	1,200	2,370	1,340	57	82	66	98
28	516	406	444	591	567	1,150	2,190	1,630	48	77	68	124
29	520	399	457	586	-----	1,130	1,940	2,110	50	51	72	131
30	530	400	460	581	-----	1,100	1,830	1,920	60	60	65	125
31	523	-----	479	593	-----	1,150	-----	1,790	-----	53	67	-----
TOTAL	15,242	15,329	12,610	18,251	15,950	36,372	52,590	73,670	20,221	2,145	1,877	2,914
MEAN	492	511	407	589	570	1,173	1,753	2,376	674	69.2	60.5	97.1
MAX	564	641	479	740	639	1,600	2,870	3,340	1,690	120	106	151
MIN	358	399	371	400	429	601	1,100	1,330	48	41	41	50
AC-FT	30,230	30,410	25,010	36,200	31,640	72,140	104,300	146,100	40,110	4,250	3,720	5,780
CAL YR 1973	TOTAL 233,205 MEAN 639 MAX 2,510 MIN 48 AC-FT 462,600											
WTR YR 1974	TOTAL 267,171 MEAN 732 MAX 3,340 MIN 41 AC-FT 529,900											

NOTE.—No gage-height record March 11 to April 17,

WEBER RIVER BASIN

207

10141050 South Fork Weber Canal near Hooper, Utah

LOCATION.—Lat 41°11'09", long 112°09'37", in SE¼NE¼ sec.10, T.5 N., R.3 W., Weber County, on right bank at diversion headgate, upstream from bridge and 2.4 miles (3.9 km) northwest of Hooper, Utah.

PERIOD OF RECORD.—October 1971 to current year. Partial records during irrigation season for period June 1960 to September 1971 are available in the Weber River Water Commissioner's Annual Report.

GAGE.—Water-stage recorder and submerged orifice control. Altitude of gage is 4,210 ft (1,283 m) from topographic map.

EXTREMES.—Current year: Maximum discharge, 60 ft³/s (1.70 m³/s) September 28 (gage height, 2.11 ft or 0.643 m); no flow for many days during January and February.

Period of record: Maximum discharge, 68 ft³/s (1.93 m³/s) Dec. 25, 1971 (gage height, 2.35 ft or 0.716 m); no flow for many days during winter.

REMARKS.—Records good. Many diversions above station. Flow regulated by Rockport, Echo, East Canyon, Pine View, and Willard Bay Reservoirs (see stations 10129400, 10131500, 10134000, 10139000, and 10140800).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	40	39	38	0	31	33	31	33	15	14	28
2	39	40	39	38	0	31	33	31	32	16	12	34
3	40	40	39	38	0	31	32	31	32	26	12	38
4	40	40	39	38	0	31	28	32	32	34	14	38
5	41	40	39	38	0	31	18	31	27	33	17	37
6	41	40	39	38	0	31	13	31	30	29	19	37
7	41	40	39	19	0	31	13	30	32	22	19	37
8	41	40	39	0	0	33	13	31	33	21	24	38
9	41	40	38	0	0	32	21	31	32	23	31	37
10	41	40	38	0	0	32	30	31	32	21	32	36
11	41	40	38	0	0	32	30	21	26	19	30	37
12	41	40	38	0	0	32	30	16	12	15	26	38
13	41	40	38	0	0	32	30	43	24	19	24	37
14	41	40	38	0	0	32	31	43	47	24	24	37
15	41	40	38	0	0	33	31	40	47	24	22	38
16	41	40	38	0	0	32	31	35	47	26	29	38
17	41	40	38	0	0	32	31	32	49	33	26	38
18	41	40	38	0	0	32	31	28	45	35	22	35
19	41	39	38	.42	1.2	31	31	23	36	35	21	29
20	41	39	38	0	31	31	31	31	36	33	19	25
21	41	39	38	0	30	31	31	36	36	28	18	19
22	40	39	38	0	30	32	31	15	36	30	18	14
23	41	39	38	0	30	32	31	34	36	28	17	18
24	40	39	38	0	30	32	29	33	35	21	17	27
25	40	39	38	0	30	33	31	26	31	18	20	31
26	40	39	38	0	30	33	24	33	25	15	20	33
27	40	39	38	0	30	33	9.0	34	22	18	23	35
28	40	39	38	0	30	32	31	34	20	25	24	41
29	39	39	38	0	-----	32	31	34	16	22	25	42
30	39	39	38	0	-----	33	32	33	14	18	26	39
31	40	-----	38	0	-----	32	-----	32	-----	18	25	-----
TOTAL	1,253	1,188	1,186	247.42	272.2	988	821.0	966	955	744	670	1,011
MEAN	40.4	39.6	38.3	7.98	9.72	31.9	27.4	31.2	31.8	24.0	21.6	33.7
MAX	41	40	39	38	31	33	33	43	49	35	32	42
MIN	38	39	38	0	0	31	9.0	15	12	15	12	14
AC-FT	2,490	2,360	2,350	491	540	1,960	1,630	1,920	1,890	1,480	1,330	2,010
CAL YR 1973	TOTAL	9,274.00	MEAN	25.4	MAX	41	MIN	0	AC-FT	18,390		
WTR YR 1974	TOTAL	10,301.62	MEAN	28.2	MAX	49	MIN	0	AC-FT	20,430		

LOCATION.--Lat 41°10'56", long 112°10'10", in NW¼ sec.10, T.5 N., R.3 W., Weber County, on left bank 0.5 mile (0.8 km) below diversion headgates, 2.5 miles (4.0 km) upstream from mouth, and 2.6 miles (4.2 km) northwest of Hooper, Utah.

GAGE.—Water-stage recorder. Altitude of gage is 4,208 ft (1,283 m) from topographic map.

Period of record: Maximum discharge, 2,640 ft³/s (74.8 m³/s) May 11, 1973 (gage height, 7.52 ft or 2.292 m); no flow many days each year.

REMARKS.—Records good. Many diversions above station. Flow regulated by Rockport, Echo, East Canyon, Pine View, and Willard Bay Reservoirs (see stations 10129400, 10131500, 10134000, 10139000, and 10140800).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	122	30	83	551	600	750	1,080	1,220	0	0	0
2	49	112	97	43	566	865	730	1,210	1,150	0	0	0
3	77	116	81	88	552	1,020	774	1,360	1,050	0	0	0
4	75	124	73	111	539	710	780	1,550	940	0	0	39
5	77	122	69	134	532	723	751	1,600	860	4.8	0	44
6	87	121	17	173	504	751	733	1,630	900	4.8	2.4	33
7	89	123	14	339	510	835	730	1,530	970	12	0	0
8	96	129	66	621	485	734	711	1,480	1,100	18	0	0
9	105	123	35	485	445	737	661	1,590	1,200	1.2	0	0
10	121	122	0	497	471	753	794	1,820	980	0	0	0
11	127	118	8.0	557	453	775	881	2,040	800	0	0	0
12	128	153	55	706	499	671	1,100	1,880	700	0	0	39
13	122	133	25	527	509	738	1,100	1,680	386	0	2.4	52
14	118	137	41	466	502	773	1,100	1,700	391	0	28	35
15	126	130	24	463	503	843	1,080	1,670	418	9.6	12	12
16	132	129	0	477	509	936	1,080	1,630	380	3.6	0	1.0
17	124	135	0	500	521	924	1,100	1,610	494	2.4	0	1.0
18	102	151	74	535	507	942	1,120	1,610	576	1.2	0	1.0
19	98	195	81	571	552	900	1,150	1,510	435	1.0	0	0
20	99	153	75	636	604	850	1,240	1,570	376	0	0	0
21	101	149	50	632	542	800	1,340	1,830	328	0	0	0
22	100	103	53	589	440	780	1,410	1,810	293	0	0	0
23	100	80	73	554	409	760	1,460	1,550	119	0	0	0
24	0	62	46	544	401	740	1,550	1,300	3.0	0	0	0
25	0	74	84	540	470	750	1,610	1,120	3.0	0	0	0
26	66	23	0	534	483	760	1,890	980	1.2	0	0	1.2
27	112	34	30	532	496	780	1,720	920	0	0	0	8.4
28	110	0	89	523	499	790	1,350	1,150	0	0	0	12
29	117	0	100	524	-----	780	1,220	1,500	0	0	0	21
30	114	0	127	519	-----	770	1,100	1,380	0	0	0	18
31	116	-----	96	514	-----	760	-----	1,300	-----	6.0	0	-----
TOTAL	2,968	3,173	1,613.0	14,017	14,054	24,550	33,015	46,590	16,073.2	64.6	44.8	317.6
MEAN	95.7	106	52.0	452	502	792	1,101	1,503	536	2.08	1.45	10.6
MAX	132	195	127	706	604	1,020	1,890	2,040	1,220	18	28	52
MIN	0	0	0	43	401	600	661	920	0	0	0	0
AC-FT	5,890	6,290	3,200	27,800	27,880	48,690	65,490	92,410	31,880	128	89	630
CAL YR 1973	TOTAL	121,096.60	MEAN	332	MAX	1,630	MIN	0	AC-FT	240,200		
WTR YR 1974	TOTAL	156,480.20	MEAN	429	MAX	2,040	MIN	0	AC-FT	310,400		

WEBER RIVER BASIN

209

10141150 Middle Fork Weber River near Hooper, Utah

LOCATION.--Lat 41°12'48", long 112°09'36", in SW¼NW¼, sec.35, T.6 N., R.3 W., Weber County, on right bank upstream from bridge, 1.6 miles (2.6 km) upstream from mouth and 4.0 miles (6.4 km) northwest of Hooper, Utah.

PERIOD OF RECORD.--October 1971 to current year. Figures of daily discharge during the irrigation season were collected and published by the Weber River Water Commissioner from August 1960 to September 1971.

GAGE.--Digital water-stage recorder and submerged orifice control. Altitude of gage is 4,210 ft (1,283 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 105 ft³/s (2.97 m³/s) Nov. 18 (gage height, 0.65 ft or 0.198 m); no flow many days in January and February.

Period of record: Maximum discharge, 150 ft³/s (4.25 m³/s) Dec. 26, 1971 (gage height, 1.30 ft or 0.396 m); no flow many days in January and February.

REMARKS.--Records good. Many diversions above station. Flow regulated by Rockport, Echo, East Canyon, Pine View, and Willard Bay Reservoirs (see stations 10129400, 10131500, 10134000, 10139000, and 10140800).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	96	88	92	0	2.1	71	85	82	52	53	68
2	89	97	89	89	0	45	79	90	81	54	49	79
3	91	97	89	89	0	77	77	95	79	66	46	86
4	91	97	89	89	0	42	72	97	73	75	49	86
5	92	97	88	90	0	34	66	97	67	74	56	85
6	93	97	89	73	0	37	63	97	70	67	59	84
7	95	97	87	0	0	44	63	96	72	58	60	84
8	95	97	88	0	0	64	63	96	75	58	70	86
9	97	95	87	0	0	74	65	97	76	61	78	83
10	97	94	89	0	0	75	72	97	74	58	79	82
11	98	94	90	0	0	76	74	97	68	55	74	84
12	98	94	91	0	0	72	81	97	41	53	68	85
13	99	96	91	0	0	74	84	97	38	56	67	84
14	98	96	91	0	0	76	84	97	59	62	68	84
15	99	97	92	0	0	79	83	96	58	64	66	84
16	99	97	92	0	0	82	83	94	57	68	71	84
17	98	96	92	0	0	81	84	93	65	75	67	84
18	96	98	93	0	0	81	85	91	68	77	63	78
19	96	100	92	0	7.3	79	87	88	65	82	62	64
20	96	96	92	0	8.8	75	91	90	63	80	56	60
21	97	95	93	0	0	72	93	95	62	71	54	57
22	96	92	93	0	0	71	94	91	61	75	53	53
23	96	92	94	0	0	70	93	90	69	73	51	54
24	93	91	95	0	0	69	94	83	77	66	51	53
25	95	91	95	0	0	69	97	75	70	60	56	59
26	97	90	95	0	0	70	97	75	62	54	56	62
27	98	90	95	0	0	72	91	74	59	59	63	66
28	97	89	95	0	0	73	91	79	57	72	65	71
29	98	88	97	0	-----	73	87	90	52	66	65	79
30	97	88	97	0	-----	73	84	87	52	59	65	79
31	96	-----	97	0	-----	73	-----	85	-----	57	65	-----
TOTAL	2,965	2,834	2,845	522	16.1	2,054.1	2,448	2,811	1,952	2,007	1,905	2,247
MEAN	95.6	94.5	91.8	16.8	.58	66.3	81.6	90.7	65.1	64.7	61.5	74.9
MAX	99	100	97	92	8.8	82	97	97	82	82	79	86
MIN	88	88	87	0	0	2.1	63	74	38	52	46	53
AC-FT	5,880	5,620	5,640	1,040	32	4,070	4,860	5,580	3,870	3,980	3,780	4,460
CAL YR 1973	TOTAL 23,802.60		MEAN 65.2	MAX 100	MIN 0	AC-FT 47,210						
WTR YR 1974	TOTAL 24,606.20		MEAN 67.4	MAX 100	MIN 0	AC-FT 48,810						

LOCATION.—Lat 41°13'18", long 112°10'48", in SE¹/₄SE¹/₄ sec.28, T.6 N., R.3 W., Weber County, on right bank 20 ft (6 m) upstream from concrete bridge, 3.5 miles (5.6 km) upstream from mouth, and 5 miles (8 km) northwest of Hooper, Utah.

GAGE.--Water-stage recorder with natural channel control. Altitude of gage is 4,202.91 ft (1,281.047 m) above mean sea level.

EXTREMES.—Current year: Maximum discharge, 1,030 ft³/s (29.2 m³/s) May 10 (gage height, 5.93 ft or 1.807 m); minimum, 0.72 ft³/s (0.020 m³/s) Sept. 27.

Period of record: Maximum discharge, 1,030 ft³/s (29.2 m³/s) May 10, 1974 (gage height, 5.93 ft or 1.807 m); no flow in July 1972.

REMARKS.—Records good. Many diversions above station. Flow regulated by Rockport, Echo, East Canyon, Pine View, and Willard Bay Reservoirs (see stations 10129400, 10131500, 10134000, 10139000, and 10140800). Records of chemical analysis will be published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	269	257	264	140	137	425	680	608	10	2.2	1.3
2	250	269	260	270	144	238	506	768	566	10	2.1	1.3
3	258	270	258	271	141	380	494	837	533	10	1.9	1.4
4	260	270	256	273	137	279	440	900	464	11	1.9	1.4
5	244	269	254	277	134	232	398	900	400	12	1.9	1.4
6	230	269	254	299	135	241	375	939	410	11	1.9	1.3
7	229	270	253	238	128	283	375	926	418	9.6	1.9	1.3
8	230	271	253	97	124	361	365	926	461	9.3	1.9	1.3
9	233	270	253	108	118	405	375	965	470	4.6	1.9	1.3
10	234	268	252	105	118	417	440	1,020	434	3.6	1.9	1.4
11	236	267	253	108	117	434	473	1,030	385	3.5	1.8	1.4
12	253	269	254	120	115	433	552	1,000	218	3.4	1.7	1.4
13	269	275	254	134	121	458	596	1,000	118	3.4	1.7	1.3
14	267	274	254	132	121	482	638	978	28	3.6	1.6	1.3
15	270	273	253	115	121	512	656	939	22	3.6	1.7	1.2
16	271	271	252	120	123	556	644	913	17	3.7	1.7	1.2
17	268	272	252	128	128	542	644	891	15	4.0	1.7	1.2
18	263	284	257	142	129	552	656	864	16	4.3	1.6	1.2
19	262	286	257	150	141	527	680	789	15	4.3	1.5	1.2
20	262	281	256	172	159	473	716	819	14	4.1	1.5	1.2
21	262	279	255	169	135	437	754	882	14	3.8	1.4	1.1
22	263	263	255	155	90	420	768	855	14	3.4	1.4	1.0
23	263	259	257	141	83	403	789	803	14	3.4	1.4	.89
24	251	258	254	139	106	393	803	674	12	3.1	1.4	.87
25	252	257	255	137	109	390	837	530	11	3.0	1.4	.91
26	265	255	254	135	114	400	882	500	11	2.8	1.4	.90
27	268	256	256	132	122	423	819	494	11	2.6	1.4	.96
28	268	255	260	129	123	449	789	533	11	2.6	1.4	1.0
29	267	254	262	129	-----	452	728	734	11	2.6	1.4	.94
30	270	254	262	127	-----	437	680	704	11	2.4	1.4	1.0
31	270	-----	260	126	-----	440	-----	674	-----	2.3	1.4	-----
TOTAL	7,938	8,037	7,922	5,042	3,476	12,586	18,297	25,467	5,732	161.0	51.4	35.57
MEAN	256	268	256	163	124	406	610	822	191	5.19	1.66	1.19
MAX	271	286	262	299	159	556	882	1,030	608	12	2.2	1.4
MIN	229	254	252	97	83	137	365	494	11	2.3	1.4	.87
AC-FT	15,750	15,940	15,710	10,000	6,890	24,960	36,290	50,510	11,370	319	102	71
CAL YR 1973	TOTAL	94,936.64	MEAN	260	MAX	852	MIN	0	AC-FT	188,300		
WTR YR 1974	TOTAL	94,744.97	MEAN	260								

WEBER RIVER BASIN

211

10141400 Howard Slough at Hooper, Utah

LOCATION.—Lat 41°08'25", long 112°07'17", in SW¼SW¼NW¼ sec.30, T.5 N., R.2 W., Davis County, on upstream end of left wingwall of bridge on State Highway 37, 1.5 miles (2.4 km) south of Hooper and 2.7 miles (4.3 km) upstream from mouth.

DRAINAGE AREA.—20.6 mi² (53.4 km²).

PERIOD OF RECORD.—October 1971 to current year. Records collected at this site by U.S. Bureau of Reclamation June 25, 1952 to September 30, 1955.

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

EXTREMES.—Current year: Maximum discharge, 193 ft³/s (5.47 m³/s) April 12 (gage height, 3.22 ft or 0.981 m); minimum, 4.8 ft³/s (0.14 m³/s) July 31.
Period of record: Maximum discharge, 193 ft³/s (5.47 m³/s) Apr. 12, 1974 (gage height, 3.22 ft or 0.981 m); minimum, 4.8 ft³/s (0.14 m³/s) July 31, 1974.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	15	19	24	53	96	21	33	34	15	13	27
2	24	16	28	24	50	65	38	34	32	13	14	30
3	25	15	19	24	45	55	30	36	37	19	9.1	30
4	28	15	15	22	42	47	23	34	41	18	11	28
5	27	15	16	22	38	50	23	44	54	15	14	28
6	27	15	17	22	37	77	22	29	52	18	9.8	31
7	27	15	16	21	35	59	21	23	51	23	18	27
8	34	15	16	30	32	44	20	19	64	18	24	25
9	30	15	16	32	32	39	19	19	61	12	21	24
10	28	15	15	32	31	37	36	19	58	10	23	28
11	23	15	15	31	30	35	101	15	50	11	24	25
12	19	15	15	24	30	31	173	32	28	15	18	25
13	23	21	15	24	32	17	102	45	23	21	21	19
14	22	21	17	27	32	21	61	32	16	25	17	20
15	18	17	17	25	35	22	40	21	20	25	18	20
16	16	17	15	30	40	22	27	30	18	20	17	25
17	19	18	16	47	44	23	23	30	20	24	13	30
18	18	28	20	53	40	23	19	24	18	19	13	22
19	17	23	18	78	70	23	17	29	17	18	20	15
20	16	17	16	87	69	21	15	97	13	16	21	9.5
21	15	21	16	67	50	21	15	94	11	13	16	11
22	16	25	17	46	43	22	13	60	15	21	13	11
23	18	26	20	45	38	22	12	52	16	24	14	12
24	20	26	18	38	35	21	10	50	14	16	13	15
25	14	25	17	38	33	21	9.1	50	13	16	19	12
26	14	22	16	38	34	20	34	51	11	19	18	11
27	15	16	21	36	35	18	30	46	12	15	12	17
28	15	16	24	35	42	20	30	45	13	11	13	17
29	15	18	28	35	-----	21	37	37	12	13	14	12
30	16	19	30	35	-----	20	35	32	20	13	18	12
31	15	-----	28	39	-----	20	-----	39	-----	7.9	21	-----
TOTAL	638	557	576	1,131	1,127	1,033	1,056.1	1,201	844	523.9	509.9	618.5
MEAN	20.6	18.6	18.6	36.5	40.3	33.3	35.2	38.7	28.1	16.9	16.4	20.6
MAX	34	28	30	87	70	96	173	97	64	25	24	31
MIN	14	15	15	21	30	17	9.1	15	11	7.9	9.1	9.5
AC-FT	1,270	1,100	1,140	2,240	2,240	2,050	2,090	2,380	1,670	1,040	1,010	1,230
CAL YR 1973	TOTAL	10,699.0	MEAN	29.3	MAX	154	MIN	10	AC-FT	21,220		
WTR YR 1974	TOTAL	9,815.4	MEAN	26.9	MAX	173	MIN	7.9	AC-FT	19,470		

10143500 Centerville Creek above diversions, near Centerville, Utah

LOCATION.—Lat 40°54'59", long 111°51'44", in SW¼SW¼SE¼ sec.8, T.2 N., R.1 E., Davis County, on right bank 1.2 miles (1.9 km) east of Centerville.

DRAINAGE AREA.—3.15 mi² (8.16 km²).

PERIOD OF RECORD.—October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.—Water-stage recorder. V-notch sharp-crested weir since November 1960. Altitude of gage is 4,680 ft (1,426 m) from topographic map. Prior to Nov. 21, 1960, at site 250 ft (76 m) downstream at different datum.

AVERAGE DISCHARGE.—25 years, 2.94 ft³/s (0.083 m³/s), 2,130 acre-ft/yr (2.63 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 32 ft³/s (0.91 m³/s) May 10 (gage height, 2.25 ft or 0.686 m); minimum, 1.4 ft³/s (0.040 m³/s) Jan. 22.

Period of record: Maximum daily discharge, 30 ft³/s (0.85 m³/s) May 6, 7, 1952; minimum daily recorded, 0.5 ft³/s (0.014 m³/s) Mar. 16, 1955, and several days in 1961.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.9	1.8	1.7	1.7	1.9	3.8	18	19	4.5	2.4	1.7
2	1.8	1.8	1.9	1.7	1.7	3.0	3.6	20	19	5.0	2.3	1.7
3	1.8	1.8	1.8	1.7	1.6	3.2	3.6	21	18	4.5	2.3	1.7
4	1.8	1.8	1.8	1.7	1.7	2.5	3.4	19	17	4.3	2.3	1.7
5	1.8	1.8	1.7	1.7	1.7	2.3	3.4	18	16	4.0	2.3	1.7
6	1.7	1.8	1.7	1.7	1.7	2.2	3.7	20	15	3.9	2.3	1.7
7	1.7	1.9	1.7	1.8	1.7	2.3	4.6	22	14	3.8	2.3	1.6
8	2.1	2.0	1.7	1.7	1.7	2.3	4.3	24	14	3.7	2.3	1.6
9	2.0	1.9	1.6	1.7	1.6	2.3	4.3	26	13	3.6	2.3	1.6
10	2.0	1.8	1.6	1.7	1.6	2.4	3.9	28	12	3.4	2.2	1.6
11	1.9	1.8	1.7	1.7	1.6	2.5	4.1	24	12	3.4	2.1	1.7
12	1.9	1.8	1.7	1.7	1.6	2.8	4.4	21	11	3.4	2.1	1.7
13	1.9	1.9	1.7	1.6	1.6	3.4	4.9	21	10	3.3	2.1	1.7
14	2.2	1.8	1.7	1.6	1.6	3.2	6.2	21	10	3.2	2.1	1.7
15	2.4	1.8	1.6	1.6	1.6	3.2	7.8	20	9.5	3.2	2.0	1.7
16	2.0	1.8	1.6	1.7	1.7	3.6	9.2	20	9.0	3.3	2.0	1.7
17	1.8	1.9	1.6	1.9	1.7	4.0	11	19	8.5	3.2	1.9	1.7
18	1.8	2.2	1.8	2.1	1.7	4.6	11	19	8.2	3.2	1.9	1.6
19	1.8	1.9	1.6	1.8	1.7	4.7	11	18	7.8	3.1	1.9	1.6
20	1.8	1.8	1.6	2.0	1.8	4.3	13	18	7.4	3.1	1.9	1.6
21	1.8	1.8	1.6	1.9	1.6	4.0	15	18	7.0	3.0	2.0	1.6
22	1.7	1.8	1.7	1.7	1.7	3.8	17	18	6.8	2.9	1.9	1.6
23	1.8	1.8	1.7	1.8	1.7	3.7	14	18	6.4	2.8	1.9	1.6
24	1.9	1.8	1.7	1.7	1.6	3.8	20	17	6.0	2.7	1.8	1.6
25	1.8	1.8	1.6	1.7	1.8	3.8	25	17	5.8	2.7	1.8	1.6
26	1.8	1.8	1.7	1.7	1.6	3.9	22	17	5.5	2.6	1.8	1.6
27	1.8	1.8	1.9	1.7	1.7	3.9	20	19	5.2	2.5	1.8	1.6
28	1.8	1.8	1.8	1.7	1.7	4.0	18	21	5.0	2.5	1.8	1.7
29	1.9	1.8	1.7	1.7	-----	4.2	16	21	4.8	2.4	1.7	1.7
30	1.8	1.8	1.9	1.6	-----	4.4	17	21	4.8	2.5	1.7	1.6
31	1.8	-----	1.9	1.7	-----	4.0	-----	20	-----	2.5	1.7	-----
TOTAL	57.9	55.2	53.1	53.7	46.7	104.2	305.2	624	307.7	102.2	62.9	49.5
MEAN	1.87	1.84	1.71	1.73	1.67	3.36	10.2	20.1	10.3	3.30	2.03	1.65
MAX	2.4	2.2	1.9	2.1	1.8	4.7	25	28	19	5.0	2.4	1.7
MIN	1.7	1.8	1.6	1.6	1.6	1.9	3.4	17	4.8	2.4	1.7	1.6
AC-FT	115	109	105	107	93	207	605	1,240	610	203	125	98

CAL YR 1973 TOTAL 1,409.2 MEAN 3.86 MAX 21 MIN 1.4 AC-FT 2,800
WTR YR 1974 TOTAL 1,822.3 MEAN 4.99 MAX 28 MIN 1.6 AC-FT 3,610

JORDAN RIVER BASIN

213

10146000 Salt Creek at Nephi, Utah

LOCATION.--Lat 39°42'47", long 111°48'13", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.3, T.13 S., R.1 E., Juab County, on right bank 1.5 miles (2.4 km) east of Nephi.

DRAINAGE AREA.--95.5 mi² (247.3 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft (1,609.344 m) above mean sea level. Dec. 2, 1950 to Nov. 7, 1952, at a site 0.5 mile (0.8 km) downstream at datum 31.96 ft (9.741 m) lower. Nov. 7, 1952 to Nov. 10, 1971, at a site 0.5 mile (0.8 km) downstream at datum 30.53 ft (9.306 m) lower.

AVERAGE DISCHARGE.--23 years, 26.3 ft³/s (0.745 m³/s), 19,050 acre-ft/yr (23.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 135 ft³/s (3.82 m³/s) July 20 (gage height, 2.33 ft or 0.710 m); minimum, 6.1 ft³/s (0.17 m³/s) Jan. 3.

Period of record: Maximum discharge, 832 ft³/s (23.6 m³/s) Aug. 1, 1968 (gage height, 6.43 ft or 1.960 m, from floodmarks); minimum, 1.1 ft³/s (0.031 m³/s) Dec. 13, 1951, Dec. 11, 1961.

REMARKS.--Records good except period of no gage-height record, which is fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	13	12	13	13	19	47	57	28	15	8.0
2	15	13	14	9.0	12	15	18	56	54	27	14	8.1
3	15	14	13	8.0	12	13	18	57	54	27	13	8.0
4	15	14	13	9.7	12	12	19	65	54	25	12	7.9
5	15	14	13	13	12	11	19	67	53	24	12	6.9
6	15	14	12	12	11	12	20	68	51	24	12	7.6
7	15	13	13	12	12	13	20	79	46	23	12	7.6
8	15	13	13	12	11	13	21	86	44	22	12	7.3
9	15	13	12	11	11	13	22	107	41	21	11	7.4
10	17	13	12	11	11	14	21	104	39	20	11	7.3
11	16	13	12	11	12	14	21	89	39	20	8.9	7.5
12	16	13	12	12	12	15	21	82	43	17	8.4	7.6
13	15	13	13	11	13	15	20	77	46	17	8.4	8.5
14	15	13	13	11	12	16	26	63	47	17	8.4	9.0
15	15	13	12	11	12	17	34	60	49	17	8.4	9.0
16	15	13	12	12	12	20	39	64	47	19	7.3	8.9
17	15	13	12	14	12	23	45	62	48	16	7.3	8.7
18	15	14	13	12	11	22	47	57	48	17	7.4	8.6
19	15	15	12	12	12	21	43	52	46	17	7.2	8.5
20	15	14	12	12	12	19	41	49	44	28	7.7	8.5
21	15	14	13	12	10	18	39	45	43	20	8.2	8.6
22	14	14	13	11	11	16	41	41	40	18	7.9	8.6
23	15	14	13	12	11	15	45	39	38	19	7.6	8.5
24	15	13	12	11	9.9	15	49	42	38	19	7.5	8.2
25	14	13	13	11	10	15	57	49	38	17	7.7	7.0
26	14	14	12	12	11	16	74	56	37	17	8.7	7.2
27	14	13	12	12	11	16	57	69	34	16	8.1	7.3
28	13	13	13	12	11	17	49	75	32	16	8.2	8.2
29	14	13	13	12	-----	18	42	75	31	15	8.1	9.2
30	14	13	13	12	-----	19	41	69	30	14	7.9	9.2
31	13	-----	12	12	-----	20	-----	64	-----	15	7.5	-----
TOTAL	459	402	390	356.7	321.9	496	1,028	2,016	1,311	612	290.8	242.9
MEAN	14.8	13.4	12.6	11.5	11.5	16.0	34.3	65.0	43.7	19.7	9.38	8.10
MAX	17	15	14	14	13	23	74	107	57	28	15	9.2
MIN	13	13	12	8.0	9.9	11	18	39	30	14	7.2	6.9
AC-FT	910	797	774	708	638	984	2,040	4,000	2,600	1,210	577	482
CAL YR 1973	TOTAL 14,524.5	MEAN 39.8	MAX 332	MIN 8.0	AC-FT 28,810							
WTR YR 1974	TOTAL 7,926.3	MEAN 21.7	MAX 107	MIN 6.9	AC-FT 15,720							

PEAK DISCHARGE (BASE, 100 CFS).--May 10 (0500) 120 cfs (2.28 ft); July 20 (1700) 135 cfs (2.33 ft).

NOTE.--No gage-height record Mar. 10 to Apr. 19.

JORDAN RIVER BASIN

10148200 Tie Fork near Soldier Summit, Utah

LOCATION.--Lat 39°57'00", long 111°12'58", in NE¼SW¼ sec.14, T.10 S., R.6 E., Utah County, on right bank 230 ft (70 m) upstream from mouth and U.S. Highway 6-50, 250 ft (76 m) downstream from Denver & Rio Grande Western Railroad, 7.4 miles (11.9 km) west of Soldier Summit, and 15 miles (24 km) east of Thistle.

DRAINAGE AREA.--22.7 mi² (58.8 km²).

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

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft (1,865 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 5.49 ft³/s (0.155 m³/s), 3,690 acre-ft/yr (4.55 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 167 ft³/s (4.729 m³/s) July 18 (gage height, 3.40 ft or 1.036 m); minimum discharge, 1.6 ft³/s (0.045 m³/s) Jan. 1.

Period of record: Maximum discharge, 396 ft³/s (11.2 m³/s) July 22, 1970 (gage height, 4.99 ft or 1.521 m) from rating curve extended above 26 ft³/s (0.736 m³/s) on basis of slope-area measurement of peak flow; minimum discharge recorded, 0.2 ft³/s (0.006 m³/s) Nov. 17, Dec. 7, 1964.

REMARKS.--Records good except those for winter period, which are fair. No diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.4	3.9	2.2	3.0	2.3	4.8	12	12	6.9	4.9	3.9
2	3.8	3.5	3.8	2.7	3.0	2.3	5.0	13	11	6.6	4.8	3.8
3	3.8	3.9	3.8	2.9	3.0	2.3	4.8	14	11	6.5	5.0	3.8
4	3.8	3.6	3.8	3.1	3.0	2.3	4.7	14	11	6.5	5.0	3.8
5	3.8	3.3	3.8	3.1	3.0	2.3	4.6	15	11	6.2	5.0	3.7
6	3.7	3.2	3.8	3.1	3.0	2.6	4.7	16	11	6.1	5.0	3.6
7	3.5	3.1	3.8	3.1	3.0	2.9	4.6	17	11	6.1	5.0	3.6
8	3.6	3.1	3.8	2.8	3.0	3.2	4.7	17	10	6.0	4.8	3.6
9	3.7	3.1	3.8	2.5	3.0	3.5	5.1	18	9.9	5.9	4.8	3.6
10	3.7	3.1	3.8	2.3	3.0	3.5	5.2	18	9.3	5.8	4.8	3.5
11	3.7	3.1	3.7	2.5	3.0	3.5	5.2	18	9.0	5.7	4.8	3.6
12	3.6	3.1	3.7	3.0	3.0	3.5	5.3	18	8.7	5.7	4.8	3.7
13	3.5	3.2	3.8	3.0	3.0	3.5	5.6	18	8.4	5.6	4.8	3.8
14	3.5	3.1	3.7	3.0	3.0	3.7	5.0	17	8.2	5.6	4.8	3.8
15	3.4	3.0	3.7	3.0	3.0	3.9	5.2	17	8.2	6.1	4.6	3.7
16	3.3	3.5	3.6	3.0	3.0	4.2	5.4	17	8.3	6.1	4.5	3.6
17	3.3	4.5	3.6	3.0	3.0	4.4	5.6	16	7.9	5.6	4.4	3.5
18	3.3	4.4	3.6	3.0	3.0	4.7	5.7	16	7.5	24	4.2	3.5
19	3.2	4.4	3.6	3.0	2.8	4.6	6.0	15	7.1	22	4.1	3.4
20	3.2	4.4	3.6	3.0	2.7	4.5	6.7	15	7.2	12	4.2	3.4
21	3.3	4.4	3.6	3.0	2.5	4.3	6.8	15	7.0	7.3	4.1	3.3
22	3.4	4.4	3.6	3.0	2.4	4.4	6.6	14	6.9	6.2	4.0	3.4
23	3.4	4.4	3.6	3.0	2.3	4.5	6.7	14	6.6	6.0	3.9	3.4
24	3.4	4.4	3.6	3.0	2.3	4.3	7.7	14	6.4	5.7	3.9	3.3
25	3.5	4.4	3.6	3.0	2.3	4.5	9.0	14	6.3	5.4	3.8	3.2
26	3.4	4.4	3.6	3.0	2.3	4.7	10	13	6.4	5.2	3.8	3.2
27	3.4	4.4	3.6	3.0	2.3	4.5	11	13	6.2	5.1	3.8	3.2
28	3.4	4.2	3.6	3.0	2.3	4.6	11	13	6.4	5.0	3.8	3.3
29	3.5	4.1	3.6	3.0	-----	4.6	11	13	6.9	5.1	3.9	3.3
30	3.4	3.9	3.5	3.0	-----	4.5	11	12	7.2	5.2	3.8	3.3
31	3.4	-----	2.8	3.0	-----	4.8	-----	12	-----	5.1	3.8	-----
TOTAL	108.7	113.0	113.4	90.3	78.2	117.4	194.7	468	254.0	222.3	136.9	105.8
MEAN	3.51	3.77	3.66	2.91	2.79	3.79	6.49	15.1	8.47	7.17	4.42	3.53
MAX	3.8	4.5	3.9	3.1	3.0	4.8	11	18	12	24	5.0	3.9
MIN	3.2	3.0	2.8	2.2	2.3	2.3	4.6	12	6.2	5.0	3.8	3.2
AC-FT	216	224	225	179	155	233	386	928	504	441	272	210

CAL YR 1973 TOTAL 2,258.8 MEAN 6.19 MAX 23 MIN 2.3 AC-FT 4,480
WTR YR 1974 TOTAL 2,002.7 MEAN 5.49 MAX 24 MIN 2.2 AC-FT 3,970

PEAK DISCHARGE (BASE, 15 CFS).--May 12 (0900) 19 cfs (1.96 ft); July 18 (1000) 167 cfs (3.40 ft).

JORDAN RIVER BASIN

215

10148500 Spanish Fork at Thistle, Utah

LOCATION.--Lat 39°59'58", long 111°29'55", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.9 S., R.4 E., Utah County, on right bank on west side of U.S. Highways 6, 50, and 89 at Thistle, 0.3 mile (0.5 km) downstream from confluence of Soldier Creek and Thistle Creek, and 2 miles (3 km) upstream from Diamond Fork.

DRAINAGE AREA.--490 mi² (1,270 km²), approximately.

PERIOD OF RECORD.--January 1908 to September 1925, October 1932 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,027.28 ft (1,532.315 m) above mean sea level. See WSP 1734 for history of changes prior to June 28, 1960.

AVERAGE DISCHARGE.--59 years, 89.0 ft³/s (2,520 m³/s), 64,480 acre-ft/yr (79.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 624 ft³/s (17.7 m³/s) May 10 (gage height, 5.13 ft or 1.564 m); minimum, 30 ft³/s (0.85 m³/s) Jan. 3.

Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) May 4, 1952 (gage height, 7.96 ft or 2.426 m, datum then in use); minimum observed, 9.2 ft³/s (0.26 m³/s) June 29, 1961.

REMARKS.--Records good. Small diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1564: 1909-11, 1915, 1917, 1923-24, 1933, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	58	60	49	66	72	101	281	198	79	74	42
2	61	59	61	41	60	84	109	312	184	75	62	40
3	62	62	56	30	58	82	109	324	175	72	56	43
4	62	58	59	33	56	75	110	363	165	70	57	46
5	60	58	55	42	63	74	111	382	162	70	54	46
6	59	60	48	54	56	84	114	400	158	66	52	46
7	59	60	55	60	59	93	114	436	150	67	56	45
8	61	60	55	60	54	96	112	488	147	65	55	48
9	62	59	54	59	52	100	114	538	138	65	57	50
10	63	58	51	58	53	116	115	591	130	64	55	48
11	62	58	55	54	56	117	117	569	122	61	51	51
12	60	58	56	59	58	114	124	553	116	62	51	53
13	60	59	59	60	54	123	119	535	108	60	50	52
14	58	59	57	60	57	131	131	476	104	63	59	53
15	56	57	50	59	62	142	138	444	103	66	59	53
16	55	58	56	59	65	133	146	429	102	75	52	53
17	53	59	59	63	62	135	154	405	99	70	51	54
18	54	62	60	61	61	127	163	376	93	64	51	54
19	54	63	57	61	63	109	166	352	92	69	49	54
20	54	60	46	61	61	102	210	332	93	78	48	53
21	55	60	52	61	62	92	185	314	89	79	49	52
22	55	53	59	54	67	93	181	287	90	73	48	50
23	55	59	61	61	66	91	205	265	88	80	48	49
24	54	54	57	59	60	87	234	249	83	76	49	48
25	54	57	56	61	67	90	277	242	78	74	49	43
26	56	60	45	63	70	94	316	240	80	72	51	42
27	56	57	49	60	70	96	271	243	78	75	49	41
28	56	53	61	60	68	99	243	236	76	71	45	49
29	58	57	64	58	-----	97	239	227	79	66	44	51
30	57	60	64	53	-----	96	252	220	78	64	43	51
31	58	-----	56	58	-----	107	-----	213	-----	67	42	-----
TOTAL	1,789	1,755	1,733	1,731	1,706	3,151	4,980	11,322	3,458	2,158	1,616	1,460
MEAN	57.7	58.5	55.9	55.8	60.9	102	166	365	115	69.6	52.1	48.7
MAX	63	63	64	63	70	142	316	591	198	80	74	54
MIN	53	53	45	30	52	72	101	213	76	60	42	40
AC-FT	3,550	3,480	3,440	3,430	3,380	6,250	9,880	22,460	6,860	4,280	3,210	2,900

CAL YR 1973 TOTAL 49,365 MEAN 135 MAX 1,140 MIN 40 AC-FT 97,920
WTR YR 1974 TOTAL 36,859 MEAN 101 MAX 591 MIN 30 AC-FT 73,110

PEAK DISCHARGE (BASE, 330 CFS).--Apr. 26 (0200) 354 cfs (4.02 ft); May 10 (0300) 624 cfs (5.13 ft).

JORDAN RIVER BASIN

10150500 Spanish Fork at Castilla, Utah

LOCATION.—Lat 40°02'59", long 111°32'50", in SE¼NE¼NW¼ sec.12, T.9 S., R.3 E., Utah County, on right bank 600 ft (183 m) upstream from outlet of Cold Springs, 1 mile (2 km) upstream from diversion dam of Bureau of Reclamation, 1.5 miles (2.4 km) northwest of Castilla, and 3 miles (5 km) downstream from Diamond Fork.

DRAINAGE AREA.—670 mi² (1,735 km²), approximately.

PERIOD OF RECORD.—September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

GAGE.—Water-stage recorder. Altitude of gage is 4,870 ft (1,484 m) from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 miles (2.4 km) to 2.5 miles (4.0 km) downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919, to Apr. 14, 1920, nonrecording gage, Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.—13 years (1890, 1903-14), 172 ft³/s (4.871 m³/s); 50 years (1914-17, 1919-25, 1933-74), 215 ft³/s (6.089 m³/s), 155,800 acre-ft/yr (192 hm³/yr); includes transmountain diversion.

EXTREMES.—Current year: Maximum discharge, 991 ft³/s (28.1 m³/s) May 10 (gage height, 8.65 ft or 2.637 m from Dahman indicator); minimum, 38 ft³/s (1.08 m³/s) Jan. 3.

Period of record: Maximum discharge, 3,610 ft³/s (102 m³/s) May 3, 1952 (gage height, 9.83 ft or 2.996 m); minimum, 5.8 ft³/s (0.16 m³/s) Dec. 18, 1964.

REMARKS.—Records good, except those for period of no gage-height record, which are fair. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity 270,000 acre-ft (333 km³), in Colorado River basin via Strawberry tunnel for irrigation in vicinity of Spanish Fork.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	98	93	81	103	99	163	420	522	547	521	312
2	124	99	96	54	95	118	175	460	458	548	511	288
3	130	104	86	51	90	117	170	485	396	551	495	267
4	161	99	92	57	80	103	168	530	398	490	492	263
5	170	97	83	77	98	100	168	570	417	492	486	261
6	149	100	73	85	80	113	174	610	407	456	467	246
7	119	100	86	91	92	124	171	660	407	444	499	215
8	105	99	86	92	75	128	167	720	391	436	517	184
9	109	97	84	89	75	132	174	790	294	403	510	187
10	106	95	78	89	77	155	183	852	229	392	499	171
11	104	95	86	84	83	167	190	820	255	420	495	169
12	103	96	90	90	88	171	203	770	337	413	497	173
13	103	97	94	91	94	184	193	730	374	418	495	186
14	100	97	90	92	90	195	208	690	426	356	477	180
15	97	93	79	90	94	218	227	630	512	371	449	155
16	94	95	88	90	92	220	243	610	520	480	454	139
17	93	95	93	98	96	230	252	580	508	291	443	140
18	93	102	96	97	91	225	272	560	535	237	408	150
19	93	104	90	96	97	178	276	530	542	271	401	152
20	93	98	74	96	92	162	380	490	537	322	403	151
21	93	99	83	96	78	144	270	473	534	333	402	162
22	93	84	96	83	82	147	269	534	547	297	416	164
23	95	96	98	94	94	144	320	556	550	283	412	179
24	95	84	91	91	73	139	384	561	549	267	399	182
25	95	93	90	87	81	142	445	563	542	278	369	178
26	97	96	71	96	92	151	470	557	543	334	338	177
27	97	91	74	91	98	155	435	574	547	379	347	175
28	97	82	97	93	93	164	390	578	550	408	338	186
29	100	89	99	88	-----	159	365	567	550	412	342	187
30	99	96	101	79	-----	153	390	566	548	409	325	186
31	97	-----	86	85	-----	185	-----	544	-----	470	317	-----
TOTAL	3,311	2,870	2,723	2,673	2,473	4,822	7,895	18,580	13,925	12,208	13,524	5,765
MEAN	107	95.7	87.8	86.2	88.3	156	263	599	464	394	436	192
MAX	170	104	101	98	103	230	470	852	550	551	521	312
MIN	93	82	71	51	73	99	163	420	229	237	317	139
AC-FT	6,570	5,690	5,400	5,300	4,910	9,560	15,660	36,850	27,620	24,210	26,820	11,430

CAL YR 1973 TOTAL 94,850 MEAN 260 MAX 1,330 MIN 47 AC-FT 188,100
WTR YR 1974 TOTAL 90,769 MEAN 249 MAX 852 MIN 51 AC-FT 180,000

NOTE.—No gage-height record Apr. 25 to May 21.

JORDAN RIVER BASIN

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10152000 Spanish Fork near Lake Shore, Utah

LOCATION.--Lat 40°09'30", long 111°43'50", in SE¼SE¼SE¼ sec.32, T.7 S., R.2 E., Utah County, on left bank 1 mile (2 km) upstream from mouth and 2.5 miles (4.0 km) north of Lake Shore.

DRAINAGE AREA.--700 mi² (1,810 km²), approximately.

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published as "at Lake Shore" 1909, 1913-25.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m) from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 miles (5 km) upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at present site at datum 4.0 ft (1.22 m) higher.

AVERAGE DISCHARGE.--54 years (1904-07, 1909-19, 1920-25, 1938-74) 84.2 ft³/s (2.38 m³/s), 61,000 acre-ft/yr (75.2 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 462 ft³/s (13.1 m³/s) Apr. 26; minimum, 0.74 ft³/s (0.021 m³/s) June 22, 23. Period of record: Maximum discharge observed, 3,020 ft³/s (85.5 m³/s) Apr. 28, 1952; no flow at times.

REMARKS.--Records poor. Flow regulated by many diversions for irrigation and hydro-electric powerplant. During latter part of irrigation season, only wasted and return waters pass gage. Station is below all diversions. Discharge includes that of overflow canal constructed in winter of 1947-48, which diverts part of high flow from river about 1 mile (2 km) above gage (no flow in canal this year).

REVISIONS(WATER YEARS).--WSP 1314: 1904.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	83	111	112	125	132	200	300	36	3.9	3.0	1.5
2	29	87	110	110	124	154	209	319	34	1.4	40	1.8
3	22	93	111	110	117	164	212	259	27	1.3	11	1.6
4	27	89	113	110	104	145	208	229	25	1.2	6.2	1.6
5	27	88	106	110	122	132	207	238	27	4.2	11	1.5
6	25	94	100	110	108	142	210	222	23	1.9	6.2	3.0
7	26	90	103	110	117	153	213	209	26	1.5	6.8	4.1
8	56	90	110	116	102	168	208	235	26	1.7	6.2	2.4
9	90	93	109	123	103	170	212	320	17	1.4	4.3	1.4
10	92	94	103	122	105	191	221	351	14	1.4	2.0	1.7
11	84	111	105	120	109	205	232	298	12	1.7	2.4	1.3
12	85	112	114	124	116	209	244	247	11	1.7	2.6	2.3
13	73	118	115	125	121	219	243	258	8.8	4.5	2.5	6.1
14	64	111	114	127	116	247	244	199	8.6	1.9	6.2	6.0
15	63	109	107	116	120	221	268	142	6.1	3.2	8.6	2.1
16	73	111	106	116	117	238	281	107	4.7	52	3.8	1.5
17	49	108	116	122	128	239	286	85	3.5	133	2.3	1.4
18	53	106	122	124	119	252	301	78	1.6	68	2.2	1.5
19	55	122	116	120	131	212	311	66	3.6	48	2.1	3.7
20	60	112	101	120	128	198	385	72	1.9	57	27	1.3
21	67	112	102	121	108	184	326	63	1.7	83	9.1	1.4
22	64	98	115	110	115	179	317	61	.95	39	7.8	1.8
23	64	102	119	115	124	176	324	57	6.0	24	2.2	3.4
24	71	95	115	113	109	171	363	56	1.9	25	1.8	7.2
25	75	108	110	113	113	171	401	53	1.5	14	1.8	13
26	82	111	100	122	126	178	462	52	1.7	5.8	2.0	7.6
27	75	108	94	118	134	183	415	48	6.7	3.9	2.3	6.3
28	78	100	111	118	130	189	376	47	1.6	3.4	19	6.2
29	83	102	112	114	-----	196	342	45	1.5	4.1	2.8	5.7
30	80	113	112	105	-----	186	318	39	1.3	2.1	1.7	3.0
31	70	-----	112	110	-----	212	-----	35	-----	1.8	1.5	-----
TOTAL	1,903	3,070	3,394	3,606	3,291	5,816	8,539	4,790	341.65	597.0	208.4	103.4
MEAN	61.4	102	109	116	118	188	285	155	11.4	19.3	6.72	3.45
MAX	92	122	122	127	134	252	462	351	36	133	40	13
MIN	22	83	94	105	102	132	200	35	.95	1.2	1.5	1.3
AC-FT	3,770	6,090	6,730	7,150	6,530	11,540	16,940	9,500	678	1,180	413	205
CAL YR 1973	TOTAL	50,334.60	MEAN	138	MAX	1,000	MIN	2.7	AC-FT	99,840		
WTR YR 1974	TOTAL	35,659.45	MEAN	97.7	MAX	462	MIN	.95	AC-FT	70,730		

JORDAN RIVER BASIN

10152500 Hobbie Creek near Springville, Utah

LOCATION.--Lat 40°09'29", long 111°31'36", in NE¼NE¼NW¼ sec.6, T.8 S., R.4 E., Utah County, on right bank 1,000 ft (305 m) downstream from Springville hydroelectric plant, 1.2 miles (1.9 km) downstream from Right Fork, and 4 miles (6 km) southeast of Springville.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--March 1904 to December 1916, April 1945 to September 1974 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (1,500 m) from topographic map. Prior to June 1, 1909, nonrecording gage at site 200 ft (61 m) downstream at different datum (destroyed by flood). June 1, 1909 to Dec. 31, 1916, nonrecording gage at site 800 ft (244 m) upstream at different datum. Apr. 17, 1945 to July 23, 1952, water-stage recorder at same site at datum 1.70 ft (0.518 m) higher.

AVERAGE DISCHARGE.--41 years, 47.3 ft³/s (1.340 m³/s), 34,270 acre-ft/yr (42.3 km³/yr).

EXTREMES.--Current year: Maximum discharge, about 350 ft³/s (9.91 m³/s) May 10 (gage height, unknown); minimum, 1.1 ft³/s (0.031 m³/s) Jan. 1.

Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) May 4, 1952 (gage height, 7.83 ft or 2.387 m, present datum); no flow Apr. 11, 1961, Mar. 5, Oct. 1, 1962, Nov. 23, 1963, Jan. 24, 1964, result of powerplant regulation.

REMARKS.--Records good, except for period of no gage height record, which are fair. Several diversions for irrigation above station. Flow regulated by hydroelectric plants at times during low stages. Springville City pipeline, capacity approximately 5 ft³/s (0.14 m³/s), diverts water from tributary spring above station (diversion began August 1951).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	23	22	16	20	21	58	184	94	22	18	15
2	21	23	23	13	20	24	58	209	90	21	20	14
3	21	24	22	12	19	25	54	219	85	22	20	15
4	21	23	22	13	19	22	50	231	81	21	19	15
5	22	23	21	15	20	22	49	238	77	21	19	15
6	23	23	21	19	19	22	49	240	70	19	18	15
7	23	22	21	21	20	23	48	258	68	19	17	15
8	25	22	21	21	19	23	47	264	64	18	18	15
9	25	22	21	20	18	24	51	275	61	17	19	16
10	25	22	20	20	20	24	57	300	57	18	18	15
11	25	21	20	19	20	25	56	280	54	19	19	15
12	24	22	20	20	20	25	57	260	52	20	18	17
13	24	23	20	20	20	27	54	240	51	19	18	17
14	24	23	20	19	20	33	55	222	50	19	17	17
15	25	22	20	20	20	40	61	205	48	21	17	18
16	24	23	21	20	21	47	71	190	46	25	17	19
17	24	22	20	21	21	58	83	175	42	26	16	16
18	24	24	21	22	20	64	108	165	39	24	16	16
19	24	23	21	21	21	52	116	160	36	22	13	18
20	23	22	20	21	21	47	117	153	34	21	14	17
21	23	23	21	21	19	44	106	146	33	25	16	15
22	23	22	21	20	20	43	110	140	33	24	15	15
23	23	23	21	20	20	42	145	134	33	22	15	16
24	23	23	21	21	17	41	178	130	32	21	14	16
25	23	23	21	20	19	44	208	125	31	21	16	16
26	22	23	18	20	20	49	229	122	31	21	17	16
27	23	22	19	20	20	52	198	120	30	19	16	15
28	22	22	21	21	20	55	161	117	28	19	16	16
29	23	22	21	20	-----	52	145	110	27	18	15	16
30	22	22	22	20	-----	54	155	105	26	18	16	16
31	22	-----	21	20	-----	60	-----	100	-----	18	16	-----
TOTAL	717	677	644	596	553	1,184	2,934	5,817	1,503	640	523	477
MEAN	23.1	22.6	20.8	19.2	19.8	38.2	97.8	188	50.1	20.6	16.9	15.9
MAX	25	24	23	22	21	64	229	300	94	26	20	19
MIN	21	21	18	12	17	21	47	100	26	17	13	14
AC-FT	1,420	1,340	1,280	1,180	1,100	2,350	5,820	11,540	2,980	1,270	1,040	946

CAL YR 1973 TOTAL 20,560 MEAN 56.3 MAX 470 MIN 11 AC-FT 40,780
WTR YR 1974 TOTAL 16,265 MEAN 44.6 MAX 300 MIN 12 AC-FT 32,260

PEAK DISCHARGE (BASE, 120 CFS).--Apr. 26 (0300) 252 cfs (3.78 ft); May 10 (time unknown) about 350 cfs.

NOTE.--No gage-height record May 9 to June 20.

10153800 North Fork Provo River near Kamas, Utah

LOCATION.—Lat 40°35'48", long 111°05'48", in SE¼ sec.36, T.2 S., R.7 E., Summit County, on right bank 500 ft (152 m) upstream from bridge on State Highway 150, 1,500 ft (457 m) upstream from mouth, and 9.5 miles (15.3 km) southeast of Kamas.

DRAINAGE AREA.—25 mi² (65 km²) approximately.

PERIOD OF RECORD.—August 1963 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,480 ft (2,280 m) from topographic map.

AVERAGE DISCHARGE.—11 years, 41.7 ft³/s (1.181 m³/s), 30,210 acre-ft/yr (37.2 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 470 ft³/s (13.3 m³/s) May 27 (gage height, 2.60 ft or 0.792 m); minimum, 3.1 ft³/s (0.088 m³/s) Dec. 29.

Period of record: Maximum discharge, 586 ft³/s (16.6 m³/s) June 17, 1971 (gage height, 2.84 ft or 0.866 m); minimum recorded, 1.9 ft³/s (0.054 m³/s) several days during winter of 1964-65.

REMARKS.—Records good. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	8.8	9.6	6.5	7.3	7.4	14	69	295	45	30	10
2	11	9.4	9.6	6.5	7.3	7.9	13	88	296	49	28	9.0
3	10	9.4	10	6.8	7.3	7.8	14	90	301	49	27	8.0
4	9.9	9.4	9.1	7.0	7.2	7.8	13	96	272	52	25	7.5
5	9.8	9.4	8.9	6.8	7.3	7.8	13	119	294	52	24	7.6
6	9.5	9.4	8.9	6.7	7.2	7.8	11	160	234	49	24	7.5
7	9.1	9.6	8.8	6.7	7.5	7.8	11	200	170	48	23	7.3
8	9.5	10	8.1	6.8	7.4	7.8	12	239	131	46	22	7.2
9	10	10	7.7	6.7	7.2	7.6	13	276	110	45	20	7.2
10	9.8	10	8.0	6.6	7.6	7.9	12	318	139	43	20	7.0
11	9.7	10	8.0	6.8	7.6	7.9	14	273	206	43	18	6.8
12	10	11	7.8	6.8	7.6	8.5	12	258	247	42	17	7.0
13	9.7	11	7.8	6.8	7.5	9.2	13	230	263	42	16	6.8
14	11	9.3	7.4	6.7	7.5	9.5	13	193	271	43	15	6.5
15	9.8	9.0	7.2	6.7	7.5	10	15	190	272	44	14	6.2
16	9.2	9.0	7.2	6.7	7.5	12	14	196	237	47	13	5.6
17	9.0	9.0	6.9	6.9	7.5	15	15	188	221	45	13	5.4
18	8.6	10	7.2	6.9	7.4	17	19	210	189	43	12	5.0
19	8.3	10	6.5	6.9	7.4	16	19	210	172	43	12	4.8
20	8.4	10	6.7	7.0	7.7	15	19	162	163	44	12	4.7
21	8.3	10	6.8	7.3	7.7	18	18	123	144	41	12	4.4
22	8.1	10	6.3	7.4	7.9	17	20	106	124	38	11	4.2
23	8.1	10	6.5	7.5	7.7	13	27	97	108	37	11	4.2
24	8.6	10	6.3	7.3	7.7	15	36	108	94	40	11	3.9
25	8.5	10	6.1	7.0	7.9	15	58	157	80	37	11	3.9
26	8.3	10	5.8	7.0	8.0	14	72	228	68	33	10	3.9
27	8.4	10	6.0	7.0	7.8	15	55	356	60	32	10	3.9
28	8.1	10	6.2	7.0	7.5	15	48	391	53	31	10	4.2
29	8.5	10	5.9	7.0	-----	14	46	352	48	31	9.8	3.9
30	8.9	9.8	6.0	7.0	-----	13	52	302	45	30	9.5	3.9
31	8.3	-----	6.5	7.2	-----	13	-----	285	-----	29	9.2	-----
TOTAL	284.1	293.5	229.8	214.0	210.7	359.7	711	6,270	5,307	1,293	499.5	177.5
MEAN	9.16	9.78	7.41	6.90	7.53	11.6	23.7	202	177	41.7	16.1	5.92
MAX	11	11	10	7.5	8.0	18	72	391	301	52	30	10
MIN	8.1	8.8	5.8	6.5	7.2	7.4	11	69	45	29	9.2	3.9
AC-FT	564	582	456	424	418	713	1,410	12,440	10,530	2,560	991	352
CAL YR 1973	TOTAL 14,463.5 MEAN 39.6 MAX 350 MIN 5.8 AC-FT 28,690											
WTR YR 1974	TOTAL 15,849.8 MEAN 43.4 MAX 391 MIN 3.9 AC-FT 31,440											

PEAK DISCHARGE (BASE. 200 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2000	2.24	350	6-14	2300	2.24	334
5-27	2300	2.60	470				

JORDAN RIVER BASIN

10154200 Provo River near Woodland, Utah

LOCATION.--Lat 40°33'20", long 111°10'05", in SE¼ sec.17, T.3 S., R.7 E., Summit County, on right bank on south side of State Highway 35, 0.2 mile (0.3 km) downstream from Twin Pine Bridge, 1.5 miles (2.4 km) downstream from South Fork and 3.5 miles (5.6 km) south-east of Woodland.

DRAINAGE AREA.--170 mi² (440 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,860 ft³/s (52.7 m³/s), May 9 (gage height, 4.71 ft or 1.436 m); minimum, 38 ft³/s (1.076 m³/s) Nov. 22.

Period of record: Maximum discharge, 2,270 ft³/s (64.3 m³/s), May 24, 1964 (gage height, 5.04 ft or 1.536 m); minimum, 25 ft³/s (0.71 m³/s) Mar. 25, 1965.

REMARKS.--Records good. Records include flow of Duchesne tunnel, a transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioners' Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	83	76	70	67	66	98	399	1,290	343	144	94
2	87	80	77	74	67	67	103	500	1,250	353	145	94
3	85	83	61	77	65	61	101	517	1,220	342	143	93
4	85	77	76	77	61	62	94	535	1,100	314	135	92
5	83	79	65	75	66	69	90	665	1,160	301	130	93
6	82	88	69	74	59	68	93	834	1,030	286	122	94
7	81	85	76	74	64	66	86	1,000	869	269	121	92
8	82	88	74	76	60	66	86	1,230	751	257	118	91
9	87	86	62	77	62	65	101	1,490	677	251	116	88
10	85	84	65	74	63	70	101	1,630	692	243	109	87
11	84	82	72	72	63	72	103	1,450	799	233	106	89
12	84	85	72	73	63	75	98	1,430	936	229	103	93
13	83	85	73	73	64	80	95	1,330	934	218	96	93
14	86	83	71	72	62	83	93	945	941	214	91	88
15	85	68	70	70	63	90	95	935	927	218	90	72
16	84	85	71	69	61	103	104	979	855	241	89	65
17	82	83	72	71	63	120	111	956	836	226	100	62
18	80	80	73	69	61	134	137	1,020	804	211	101	62
19	79	81	66	71	66	114	143	1,030	760	210	99	61
20	78	70	63	70	64	113	145	856	696	230	98	61
21	77	80	74	71	56	101	133	716	669	218	99	60
22	76	57	74	58	63	106	142	640	616	194	100	59
23	77	73	72	71	61	102	188	620	578	196	103	58
24	81	70	69	69	58	93	245	677	558	189	102	58
25	80	76	67	71	63	100	358	881	556	186	100	58
26	78	76	57	70	66	107	459	1,120	502	170	98	57
27	75	76	64	69	66	110	367	1,450	461	164	98	57
28	78	75	67	67	64	111	295	1,610	419	163	96	59
29	79	78	69	65	-----	102	279	1,530	399	150	95	60
30	75	77	63	63	-----	107	308	1,400	370	145	96	59
31	79	-----	66	66	-----	109	-----	1,320	-----	144	95	-----
TOTAL	2,527	2,373	2,146	2,198	1,761	2,792	4,851	31,695	23,655	7,108	3,338	2,249
MEAN	81.5	79.1	69.2	70.9	62.9	90.1	162	1,022	789	229	108	75.0
MAX	90	88	77	77	67	134	459	1,630	1,290	353	145	94
MIN	75	57	57	58	56	61	86	399	370	144	89	57
AC-FT	5,010	4,710	4,260	4,360	3,490	5,540	9,620	62,870	46,920	14,100	6,620	4,460

CAL YR 1973 TOTAL 78,803 MEAN 216 MAX 1,850 MIN 55 AC-FT 156,300

WTR YR 1974 TOTAL 86,693 MEAN 238 MAX 1,630 MIN 56 AC-FT 172,000

JORDAN RIVER BASIN

221

10155000 Provo River near Hailstone, Utah

LOCATION.--Lat 40°36'03", long 111°21'35", in SW¼NE¼SE¼ sec.34, T.2 S., R.5 E., Wasatch County, on right bank 3 miles (5 km) upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi² (603 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft (1,859 m) from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--21 years (1954-74) 292 ft³/s (8,269 m³/s), 211,600 acre-ft/yr (261 hm³/yr), since completion of Duchesne Tunnel.

EXTREMES.--Current year: Maximum discharge, 2,650 ft³/s (75.0 m³/s) May 10 (gage height, 7.66 ft or 2.335 m); minimum, 54 ft³/s (1.529 m³/s) Sept. 24-27.

Period of record: Maximum discharge, 3,880 ft³/s (109.9 m³/s) June 4, 1957 (gage height, 7.28 ft or 2.219 m, datum then in use); minimum, 11 ft³/s (0.312 m³/s) Aug. 20, 1960.

REMARKS.--Records good except those for winter periods, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Weber-Provo Diversion Canal, Duchesne Tunnel, and capacities of small reservoirs--total capacity, 10,080 acre-ft (12.4 hm³)--is available from Provo River Water Commissioners Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	131	144	117	119	118	202	627	1,500	394	126	93
2	107	128	147	121	119	156	215	772	1,460	387	133	92
3	104	134	133	135	118	134	207	799	1,440	387	130	90
4	103	127	139	135	113	121	200	827	1,300	349	117	90
5	101	126	125	131	118	127	196	948	1,370	326	108	87
6	99	145	126	128	111	128	207	1,150	1,280	305	103	90
7	99	140	131	126	116	135	195	1,390	1,050	282	103	89
8	100	142	126	123	124	138	195	1,690	917	269	103	87
9	110	140	122	124	125	141	222	2,080	811	260	101	86
10	108	137	121	132	125	148	227	2,370	827	256	94	82
11	105	134	127	132	125	156	232	2,110	1,050	236	85	87
12	105	137	125	129	125	164	229	1,990	1,290	222	81	99
13	104	141	123	127	125	175	223	1,890	1,300	199	79	100
14	105	146	120	125	125	180	226	1,310	1,300	192	70	98
15	106	123	119	124	125	195	230	1,210	1,320	199	68	82
16	104	146	125	118	125	209	247	1,270	1,200	217	65	70
17	112	144	122	124	122	221	248	1,190	1,170	212	67	64
18	115	147	121	121	119	230	273	1,230	1,130	191	71	62
19	115	151	118	123	119	195	290	1,290	1,080	185	70	61
20	119	136	114	122	117	189	320	1,080	1,030	209	65	61
21	117	147	129	122	117	171	289	877	970	202	67	61
22	117	136	129	107	117	181	300	760	918	171	68	60
23	115	134	122	121	117	174	351	712	869	163	81	58
24	122	139	117	120	117	160	436	712	749	162	93	56
25	124	141	115	125	117	176	568	928	611	165	96	56
26	122	144	106	122	117	205	745	1,190	670	143	91	55
27	115	144	114	121	115	212	631	1,620	566	135	91	55
28	117	151	120	109	113	215	514	1,850	477	130	94	57
29	119	153	123	114	-----	201	484	1,750	443	125	95	59
30	118	150	118	114	-----	206	524	1,620	421	119	96	57
31	125	-----	121	118	-----	218	-----	1,520	-----	118	93	-----
TOTAL	3,442	4,194	3,842	3,810	3,345	5,379	9,426	40,762	30,489	6,910	2,804	2,244
MEAN	111	140	124	123	119	174	314	1,315	1,016	223	90.5	74.8
MAX	125	153	147	135	125	230	745	2,370	1,500	394	133	100
MIN	99	123	106	107	111	118	195	627	421	118	65	55
AC-FT	6,830	8,320	7,620	7,560	6,630	10,670	18,700	80,850	60,470	13,710	5,560	4,450

CAL YR 1973 TOTAL 107,382 MEAN 294 MAX 2,350 MIN 82 AC-FT 213,000
WTR YR 1974 TOTAL 116,647 MEAN 320 MAX 2,370 MIN 55 AC-FT 231,400

NOTE:--No gage-height record Jan. 1 to Feb. 7.

JORDAN RIVER BASIN

10159500 Provo River below Deer Creek Dam, Utah

LOCATION.--Lat 40°24'12", long 111°31'44", in NE¼NE¼NE¼ sec.7, T.5 S., R.4 E., Wasatch County, on right bank 200 ft (61 m) upstream from Deer Creek, 1,000 ft (305 m) downstream from Deer Creek Dam, and 4 miles (6 km) northeast of Vivian Park.

DRAINAGE AREA.--560 mi² (1,450 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m) from topographic map.

AVERAGE DISCHARGE.--21 years, 374 ft³/s (10.59 m³/s), 271,000 acre-ft/yr (334 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft³/s (39.4 m³/s) May 13 (gage height, 5.65 ft or 1.722 m); minimum, 65 ft³/s (1.841 m³/s) April 16.

Period of record: Maximum discharge, 2,190 ft³/s (62.0 m³/s) June 26, 1957 (gage height, 6.74 ft or 2.054 m); no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Information is available on these stations from the Provo River Water Commissioners' Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	275	174	172	367	365	266	521	983	688	591	421
2	343	274	175	170	366	366	275	524	932	664	592	412
3	336	276	174	172	366	366	275	529	1,080	667	586	413
4	338	276	175	181	364	359	272	547	1,180	666	579	414
5	337	275	173	181	364	359	333	563	1,210	667	578	421
6	336	277	173	180	364	358	372	586	1,220	663	572	419
7	336	277	174	183	364	359	371	617	1,220	645	562	433
8	338	277	171	182	363	360	371	605	1,210	643	559	432
9	338	277	170	182	364	361	369	626	1,200	661	557	431
10	338	277	170	182	364	362	370	640	1,050	658	556	434
11	338	276	171	183	364	362	369	656	834	660	557	438
12	340	275	171	183	364	363	370	742	744	663	555	420
13	339	131	171	184	365	364	369	1,120	776	668	563	376
14	281	73	171	184	365	365	366	1,230	829	666	570	362
15	254	137	170	185	365	364	362	1,240	884	667	549	360
16	254	273	172	185	365	361	211	1,150	1,030	654	511	306
17	268	277	172	186	365	362	370	1,040	1,120	614	520	260
18	274	276	172	185	355	362	372	1,050	1,100	608	517	255
19	274	203	171	184	363	361	374	1,050	1,090	602	517	257
20	274	174	170	185	362	361	371	1,050	1,070	581	517	164
21	273	175	173	185	363	360	371	984	991	574	516	158
22	275	175	173	230	365	361	370	855	907	574	517	155
23	275	177	171	264	364	360	375	786	871	572	514	158
24	275	176	171	264	363	359	379	732	856	568	511	158
25	275	175	174	264	364	196	378	664	759	570	506	300
26	274	175	172	264	364	157	380	679	714	578	494	321
27	274	175	172	263	363	158	378	678	708	577	482	280
28	272	175	174	263	364	158	374	881	694	571	444	271
29	275	174	175	265	-----	196	408	1,110	687	587	435	281
30	277	174	174	316	-----	254	489	1,120	712	596	412	284
31	277	-----	173	360	-----	255	-----	1,120	-----	591	421	-----
TOTAL	9,329	6,607	5,342	6,567	10,189	10,054	10,710	25,695	28,661	19,363	16,360	9,794
MEAN	301	220	172	212	364	324	357	829	955	625	528	326
MAX	371	277	175	360	367	366	489	1,240	1,220	688	592	438
MIN	254	73	170	170	355	157	211	521	687	568	412	155
AC-FT	18,500	13,100	10,600	13,030	20,210	19,940	21,240	50,970	56,850	38,410	32,450	19,430
CAL YR 1973	TOTAL	152,911	MEAN	419	MAX	1,590	MIN	73	AC-FT	303,300		
WTR YR 1974	TOTAL	158,671	MEAN	435	MAX	1,240	MIN	73	AC-FT	314,700		

JORDAN RIVER BASIN

223

10160800 North Fork Provo River at Wildwood, Utah

LOCATION.--Lat 40°22'14", long 111°33'59", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.23, T.5 S., R.3 E., Utah County, on right bank, 0.8 mile (1.3 km) upstream from mouth and U.S. Highway 189 at Wildwood.

DRAINAGE AREA.--12.3 sq mi (31.9 km²).

PERIOD OF RECORD.--October 1964 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,420 ft (1,652 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 16.7 ft³/s (0.473 m³/s), 12,100 acre-ft/yr (14.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 65 ft³/s (1.84 m³/s) May 29 (gage height, 1.98 ft or 0.604 m); minimum, 2.1 ft³/s (0.059 m³/s) Jan. 10.

Period of record: Maximum discharge, 225 ft³/s (6.37 m³/s) May 10, 1966 (gage height, 1.94 ft or 0.591 m); maximum gage height 3.65 ft (1.113 m) May 23, 1967; minimum discharge, 0.17 ft³/s (0.005 m³/s) Feb. 11, 1973.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.5	9.5	6.2	5.4	4.4	8.9	17	42	26	13	8.7
2	11	9.5	9.5	5.4	5.0	5.3	9.1	17	37	25	13	8.7
3	11	9.5	8.2	4.6	4.9	5.5	8.5	17	39	24	13	8.4
4	11	8.8	8.2	5.0	4.9	5.1	8.3	19	39	23	13	8.2
5	12	8.8	7.5	6.0	4.8	5.3	8.1	20	43	22	13	8.2
6	12	8.8	7.5	6.2	4.8	5.3	8.1	23	39	21	12	8.1
7	12	9.5	6.9	6.6	4.8	5.3	7.9	27	34	21	13	8.1
8	13	9.5	6.8	6.6	4.7	5.2	8.1	30	28	21	13	8.0
9	12	9.5	6.8	6.2	4.7	5.3	8.2	37	25	20	13	7.7
10	11	8.8	6.6	6.2	4.8	5.3	8.6	52	23	18	13	7.7
11	11	8.2	6.6	6.2	4.7	5.3	8.5	46	25	17	13	7.8
12	11	8.8	6.6	6.4	4.6	5.3	8.7	35	28	17	12	7.8
13	11	9.5	6.8	6.2	4.5	5.5	8.5	31	30	16	12	7.6
14	11	10	6.6	6.0	4.5	5.8	8.4	28	34	16	12	7.5
15	11	10	6.6	6.2	4.5	6.1	8.4	27	41	15	12	7.4
16	11	10	6.6	6.8	4.5	6.3	9.0	26	45	16	12	7.4
17	10	10	6.6	6.8	4.5	6.6	9.1	26	51	15	12	7.1
18	10	12	6.6	6.4	4.3	7.0	9.3	26	57	16	11	7.1
19	10	11	6.6	6.4	4.5	7.1	10	25	49	16	11	7.0
20	10	11	6.4	6.4	4.4	6.9	11	24	50	15	11	6.7
21	10	11	6.2	6.4	4.3	6.8	11	23	42	15	11	6.7
22	10	10	6.2	6.0	4.4	6.6	11	22	39	15	11	6.7
23	10	9.5	6.4	6.2	4.3	6.6	12	21	37	15	10	6.6
24	11	9.5	6.4	6.0	3.9	6.6	13	20	36	15	10	6.4
25	10	9.5	6.4	5.8	4.2	6.9	16	21	35	14	10	6.4
26	10	10	6.2	5.8	4.2	7.2	18	24	31	14	9.7	6.6
27	9.5	8.8	6.8	5.6	4.2	8.6	20	34	30	14	9.5	6.6
28	9.5	8.8	6.8	5.6	4.2	8.5	20	49	29	14	9.4	6.7
29	8.8	9.5	8.3	5.4	-----	8.6	18	54	27	14	9.1	6.8
30	8.8	9.5	7.8	5.4	-----	8.8	18	45	26	14	9.0	6.8
31	8.2	-----	7.0	5.4	-----	8.8	-----	43	-----	13	8.8	-----
TOTAL	327.8	288.8	218.0	186.4	127.5	197.9	331.7	909	1,091	537	354.5	221.5
MEAN	10.6	9.63	7.03	6.01	4.55	6.38	11.1	29.3	36.4	17.3	11.4	7.38
MAX	13	12	9.5	6.8	5.4	8.8	20	54	57	26	13	8.7
MIN	8.2	8.2	6.2	4.6	3.9	4.4	7.9	17	23	13	8.8	6.4
AC-FT	650	573	432	370	253	393	658	1,800	2,160	1,070	703	439

CAL YR 1973 TOTAL 7,528.8 MEAN 20.6 MAX 91 MIN 3.8 AC-FT 14,930

WTR YR 1974 TOTAL 4,791.1 MEAN 13.1 MAX 57 MIN 3.9 AC-FT 9,500

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-10	1800	1.96	58	6-17	2300	1.99	63
5-29	0400	1.98	65				

LOCATION. --Lat 40°14'16", long 111°41'55", in NE¼NW¼ sec.3, T.7 S., R.2 E., Utah County, on left bank 1,300 ft (396 m) downstream from bridge on State Highway 114, 2 miles (3 km) west of Provo and 2 miles (3 km) upstream from mouth.

DRAINAGE AREA.--680 mi² (1,760 km²), approximately.

PERIOD OF RECORD.—May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

GAGE.—Water-stage recorder. Altitude of gage is 4,510 ft (1,375 m) from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mile (1.3 km) upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft (305 m) upstream at different datum. November 1938 to Aug. 23, 1957, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

EXTREMES.--Current year: Maximum discharge, 693 ft³/s (19.6 m³/s) May 15 (gage height, 4.43 ft or 1.350 m); minimum, 1.6 ft³/s (0.045 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 2,520 ft³/s (71.4 m³/s) May 6, 1952 (gage height, 6.37 ft or 1.94 m); no flow for several periods.

REMARKS.--Records good. Station is below all diversions. At times entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

REVISIONS (WATER YEARS).--WSP 1564: 1904, 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	289	202	200	369	378	289	301	410	25	8.0	4.4
2	207	289	209	183	370	393	312	290	347	16	12	3.9
3	201	292	204	179	370	393	309	289	422	15	15	3.2
4	204	289	211	191	371	383	303	290	508	12	14	3.5
5	192	292	209	205	374	379	335	291	535	15	13	5.4
6	196	292	207	204	371	378	391	258	563	15	12	5.5
7	199	289	207	208	372	374	391	210	584	15	12	4.0
8	213	286	204	210	369	377	381	177	592	16	14	3.0
9	213	289	203	204	370	379	382	160	569	11	8.6	3.0
10	211	289	206	204	370	380	400	159	481	11	11	2.9
11	221	289	209	205	370	381	418	151	280	11	13	3.6
12	229	289	209	207	370	380	435	198	153	19	9.6	5.6
13	230	202	210	206	373	380	428	450	151	12	14	7.9
14	249	135	209	205	375	379	426	631	162	8.5	18	9.5
15	280	168	207	207	379	379	413	639	221	9.4	19	9.3
16	282	286	207	207	380	377	278	607	320	10	18	4.5
17	292	289	206	218	381	377	398	495	421	8.4	19	2.3
18	304	299	201	219	373	381	406	481	422	5.8	24	2.6
19	300	256	198	216	383	381	406	486	401	8.2	24	2.3
20	300	213	194	216	386	380	412	506	363	7.3	15	2.3
21	298	213	195	217	385	378	410	486	315	4.7	8.1	2.1
22	294	210	200	241	383	374	405	362	240	8.1	9.5	1.7
23	295	207	196	279	383	373	395	264	199	7.9	8.4	2.3
24	292	210	197	277	376	373	372	208	202	6.6	6.0	1.8
25	286	216	200	275	378	271	360	123	130	6.3	6.8	2.0
26	277	210	198	276	376	190	356	102	63	6.7	6.7	3.0
27	275	203	200	275	375	190	352	98	63	4.4	4.5	3.4
28	274	202	200	276	374	187	337	217	41	4.1	6.7	3.6
29	286	202	210	276	-----	200	329	486	27	4.0	4.3	6.9
30	289	202	212	309	-----	269	323	492	27	5.2	4.0	14
31	289	-----	204	355	-----	276	-----	491	-----	5.8	4.1	-----
TOTAL	7,884	7,397	6,324	7,150	10,506	10,690	11,152	10,398	9,212	314.4	362.3	129.5
MEAN	254	247	204	231	375	345	372	335	307	10.1	11.7	4.32
MAX	304	299	212	355	386	393	435	639	592	25	24	14
MIN	192	135	194	179	369	187	278	98	27	4.0	4.0	1.7
AC-FT	15,640	14,670	12,540	14,180	20,840	21,200	22,120	20,620	18,270	624	719	257
CAL YR 1973	TOTAL 91,910.7		MEAN 252	MAX 1,270	MIN 3.9	AC-FT 182,300						
WTR YR 1974	TOTAL 81,519.2		MEAN 223	MAX 639	MIN 1.7	AC-FT 161,700						

10164500 American Fork above upper powerplant, near American Fork, Utah

LOCATION.--Lat 40°26'52", long 111°40'53", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.4 S., R.2 E., Utah County, on left bank 600 ft (183 m) downstream from Rock Creek, 1,000 ft (305 m) upstream from intake for upper powerplant of Utah Power & Light Co., 4 miles (6 km) upstream from mouth of canyon, and 8 miles (13 km) northeast of American Fork.

DRAINAGE AREA.--51.1 mi² (132 km²).

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m) from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft (91 m) upstream.

AVERAGE DISCHARGE.--47 years, 53.6 ft³/s (1.518 m³/s), 38,830 acre-ft/yr (47.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) May 28 (gage height, 6.72 ft or 2.048 m); minimum, 13 ft³/s (0.37 m³/s) Mar. 5.

Period of record: Maximum discharge not determined, occurred July 30, 1953 (gage height, 9.2 ft or 2.80 m, from floodmark); minimum, 1.5 ft³/s (0.04 m³/s) July 16, 1970 (result of regulation).

REMARKS.--Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft (1.55 hm³).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

REVISIONS.--WSP 1634: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	22	20	17	16	15	21	80	229	95	37	22
2	28	23	20	17	16	15	22	98	237	88	36	21
3	27	23	17	18	15	16	20	102	231	89	34	21
4	26	21	19	18	16	15	19	107	216	92	32	21
5	26	21	18	17	15	14	18	128	214	90	29	21
6	26	21	17	17	15	15	17	145	201	87	29	20
7	25	22	19	17	15	15	17	158	175	85	29	21
8	28	22	19	17	14	14	17	177	161	81	30	21
9	28	28	18	17	15	15	18	194	144	77	30	21
10	27	39	17	16	15	15	20	219	142	75	29	20
11	26	22	19	16	15	15	19	191	151	73	29	20
12	25	22	19	16	15	15	20	161	170	71	28	21
13	25	23	19	16	15	16	20	154	186	70	28	22
14	24	23	18	17	15	16	19	137	201	68	27	21
15	24	22	17	17	15	18	20	139	201	68	27	21
16	24	23	18	17	15	20	21	140	211	70	26	21
17	23	23	18	17	15	22	23	134	207	65	25	21
18	23	24	18	17	15	24	29	133	199	63	25	21
19	22	23	17	17	15	25	33	129	194	62	26	21
20	22	23	16	17	15	23	35	122	183	62	25	21
21	22	23	17	16	15	21	33	111	170	61	24	20
22	21	20	17	15	14	22	34	103	160	58	24	20
23	21	21	17	16	15	22	44	102	153	55	24	20
24	21	21	17	16	15	21	61	114	145	53	24	20
25	21	21	17	16	14	21	71	145	143	50	23	20
26	21	21	15	16	14	22	87	192	138	48	23	20
27	21	21	17	16	15	24	78	255	127	44	23	20
28	21	20	17	16	15	24	68	285	117	45	22	20
29	21	20	18	16	-----	23	60	281	108	42	22	20
30	21	20	17	16	-----	22	66	252	102	40	22	20
31	21	-----	17	16	-----	22	-----	235	-----	38	22	-----
TOTAL	740	678	549	513	419	587	1,030	4,923	5,216	2,065	834	619
MEAN	23.9	22.6	17.7	16.5	15.0	18.9	34.3	159	174	66.6	26.9	20.6
MAX	29	39	20	18	16	25	87	285	237	95	37	22
MIN	21	20	15	15	14	14	17	80	102	38	22	20
AC-FT	1,470	1,340	1,090	1,020	831	1,160	2,040	9,760	10,350	4,100	1,650	1,230
CAL YR 1973	TOTAL	25,036	MEAN	68.6	MAX	400	MIN	14	AC-FT	49,660		
WTR YR 1974	TOTAL	18,173	MEAN	49.8	MAX	285	MIN	14	AC-FT	36,050		

10166430 West Canyon near Cedar Fort, Utah

LOCATION.—Lat 40°24'24", long 112°06'03", in SW¼SE¼SE¼ sec.6, T.5 S., R.2 W., Utah County, on left bank 70 ft (21 m) upstream from road bridge, 160 ft (49 m) downstream from Left Fork, 750 ft (229 m) upstream from a right bank diversion, and 5.3 miles (8.5 km) north of Cedar Fort.

DRAINAGE AREA.—26.8 mi² (69.4 km²).

PERIOD OF RECORD.—July 1965 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,650 ft (1,722 m) from topographic map.

AVERAGE DISCHARGE.—9 years, 4.26 ft³/s (0.121 m³/s), 3,090 acre-ft/yr (3.81 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 27 ft³/s (0.76 m³/s) May 10 (gage height, 1.90 ft or 0.579 m); minimum, 0.46 ft³/s (0.013 m³/s) March 3.

Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Aug. 28, 1971 (gage height, 7.50 ft or 2.286 m), from slope-area measurement; minimum, 0.02 ft³/s (0.001 m³/s) Jan. 17, 22, 1967.

REMARKS.—Records fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.0	1.6	.90	.87	.69	.79	16	17	6.7	3.0	1.7
2	2.8	2.0	1.7	.80	.86	.74	.88	17	17	6.5	3.1	1.5
3	2.8	2.0	1.5	.80	.80	.70	.83	17	17	6.7	2.9	1.5
4	2.9	1.9	1.7	.80	.80	.70	.86	16	16	5.6	2.8	1.5
5	2.9	1.8	1.7	.86	.80	.70	.95	18	16	5.6	2.7	1.5
6	2.8	1.8	1.6	.80	.80	.72	1.4	21	15	5.1	2.6	1.5
7	2.8	1.8	1.6	.85	.80	.68	1.1	21	15	4.6	2.6	1.4
8	3.2	1.8	1.6	.86	.80	.68	1.2	20	15	4.6	2.6	1.4
9	2.8	1.8	1.5	.86	.80	.68	1.7	22	13	4.6	2.6	1.5
10	2.8	1.8	1.4	.86	.80	.68	1.9	23	12	4.6	2.6	1.5
11	2.8	1.8	1.6	.90	.80	.67	1.9	21	12	4.2	2.5	1.5
12	2.8	1.9	1.6	.95	.80	.67	2.3	21	14	4.2	2.4	1.5
13	2.7	1.8	1.6	.95	.80	.67	2.3	20	14	3.8	2.3	1.5
14	2.6	1.8	1.6	1.1	.80	.68	2.3	18	15	3.8	2.3	1.5
15	2.5	1.8	1.4	1.1	.80	.68	3.8	18	15	3.8	2.4	1.5
16	2.5	1.8	1.6	1.0	.80	.69	5.6	18	14	4.6	2.4	1.5
17	2.5	1.8	1.6	1.0	.80	.71	6.1	18	12	4.6	2.3	1.4
18	2.5	2.0	1.6	.95	.87	.73	8.3	18	12	4.5	2.3	1.5
19	2.5	1.8	1.5	.95	.77	.70	9.4	17	11	3.8	2.3	1.4
20	2.4	1.7	1.4	.97	.80	.73	9.4	16	10	3.8	2.2	1.4
21	2.4	1.8	1.3	.91	.70	.72	9.4	14	9.9	3.8	2.1	1.4
22	2.4	1.7	1.5	.91	.70	.72	11	13	9.7	3.9	2.1	1.2
23	2.2	1.7	1.5	.90	.70	.70	14	12	9.3	3.9	2.1	1.2
24	2.2	1.6	1.5	.95	.70	.69	17	12	9.1	3.6	2.1	1.2
25	2.1	1.6	1.5	.96	.70	.71	20	14	8.8	3.5	2.1	1.2
26	2.1	1.6	1.4	.95	.80	.71	18	15	8.3	3.3	1.9	1.2
27	2.0	1.6	1.3	.95	.76	.73	17	17	7.7	3.2	1.9	1.2
28	2.0	1.5	1.2	.95	.68	.73	16	18	7.7	3.0	1.9	1.2
29	2.0	1.7	1.2	.90	-----	.73	15	19	7.2	2.9	1.7	1.2
30	2.0	1.6	1.2	.87	-----	.71	15	17	6.7	3.1	1.7	1.4
31	2.0	-----	1.0	.85	-----	.73	-----	17	-----	3.0	1.7	-----
TOTAL	77.8	53.3	46.0	28.36	21.91	21.78	215.41	544	366.4	132.9	72.2	42.1
MEAN	2.51	1.78	1.48	.91	.78	.70	7.18	17.5	12.2	4.29	2.33	1.40
MAX	3.2	2.0	1.7	1.1	.87	.74	20	23	17	6.7	3.1	1.7
MIN	2.0	1.5	1.0	.80	.68	.67	.79	12	6.7	2.9	1.7	1.2
AC-FT	154	106	91	56	43	43	427	1,080	727	264	143	84
CAL YR 1973	TOTAL 3,264.06	MEAN 8.94	MAX 85	MIN .24	AC-FT 6,470							
WTR YR 1974	TOTAL 1,622.16	MEAN 4.44	MAX 23	MIN .67	AC-FT 3,220							

PEAK DISCHARGE (BASE, 20 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-25	1700	1.82	22	5-29	2000	1.81	21
5-10	2400	1.90	27				

JORDAN RIVER BASIN

227

10167000 Jordan River at narrows, near Lehi, Utah

LOCATION.—Lat 40°26'38", long 111°55'17", in NW¼SE¼NW¼ sec.26, T.4 S., R.1 W., Salt Lake County, at narrows 5.5 miles (8.8 km) northwest of Lehi and 7.5 miles (12.1 km) downstream from Utah Lake.

DRAINAGE AREA.—3,000 mi² (7,770 km²), approximately, including 255 mi² (660 km²) in closed basin in Cedar Valley.

PERIOD OF RECORD.—May to December 1904, July 1913 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m) by barometer. Prior to May 16, 1920, nonrecording gage and May 16, 1920 to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 miles (12.1 km) upstream at different datum.

AVERAGE DISCHARGE.—61 years (1913-74), 363 ft³/s (10.3 m³/s), 263,000 acre-ft/yr (324 hm³/yr).

EXTREMES.—Period of record: Maximum daily discharge, 1,410 ft³/s (39.9 m³/s) June 10, 1952; no flow at times when gates were closed.

REMARKS.—Records good. Figures given herein represent combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. In addition to the combined flow indicated below, 25,215 acre-ft (31.1 km³) of Utah Lake water bypassed the Jordan River narrows in the Utah Lake Distributing Company Canal. Flow may be regulated by gages and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at narrows.

COOPERATION.—Records collected by the Jordan River Distribution System, under general supervision of the Geological Survey.

REVISIONS.—WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	218	264	429	555	690	690	611	698	764	783	743
2	315	249	240	436	569	597	607	519	695	767	801	747
3	309	275	335	389	569	650	654	497	695	775	796	738
4	322	281	368	425	555	672	690	533	700	778	795	733
5	332	286	368	403	555	696	706	547	699	779	797	700
6	333	289	371	448	578	696	651	536	690	777	801	699
7	334	287	371	463	551	708	676	556	652	777	795	701
8	333	291	376	456	588	676	710	578	591	744	779	701
9	320	289	379	479	592	610	740	644	554	703	773	702
10	279	289	379	500	592	663	719	682	547	723	785	697
11	238	293	387	500	592	673	705	726	574	750	774	683
12	224	321	384	504	592	677	645	723	651	771	775	671
13	193	290	374	504	583	640	751	700	684	772	780	660
14	174	300	389	504	592	650	755	684	703	789	782	648
15	216	312	395	504	597	656	759	676	723	790	785	634
16	250	318	395	504	602	682	743	703	719	784	788	637
17	253	313	365	504	564	677	741	683	714	773	774	618
18	253	325	361	516	611	599	764	684	718	770	766	571
19	254	174	393	516	611	681	637	686	706	735	770	572
20	258	250	411	512	592	547	648	679	700	730	758	570
21	258	323	408	441	631	674	696	687	709	730	751	581
22	267	332	418	533	621	668	700	688	714	732	762	581
23	235	331	385	538	626	608	707	687	732	729	758	582
24	263	322	384	542	636	679	711	707	730	733	756	582
25	250	331	361	529	636	693	721	695	728	734	765	573
26	246	325	452	533	640	702	624	693	721	750	754	541
27	263	345	460	546	636	704	630	681	734	764	759	569
28	269	349	440	546	655	704	704	693	762	769	765	571
29	214	357	429	551	-----	684	641	704	756	772	756	574
30	265	384	382	551	-----	690	593	692	761	778	750	531
31	266	-----	425	551	-----	629	-----	702	-----	770	750	-----
TOTAL	8,314	9,049	11,849	15,357	16,721	20,575	20,718	20,276	20,760	23,512	23,983	19,110
MEAN	268	302	382	495	597	664	691	654	692	758	774	637
MAX	334	384	460	551	655	708	764	726	762	790	801	747
MIN	174	174	240	389	551	547	593	497	547	703	750	531
AC-FT	16,490	17,950	23,500	30,460	33,170	40,810	41,090	40,220	41,180	46,640	47,570	37,900
CAL YR 1973	TOTAL 169,542.0		MEAN 464		MAX 790		MIN 9.0		AC-FT 336,300			
WTR YR 1974	TOTAL 210,224.0		MEAN 576		MAX 801		MIN 174		AC-FT 417,000			

LOCATION.—Lat 40°43'37", long 111°55'33", in SE¹/₄SW¹/₄ sec.14, T.1 S., R.1 W., Salt Lake County, near right bank on upstream side of diversion dam at head of canal, and 250 ft (76 m) downstream from highway bridge over Jordan River on 21st South Street.

GAGE.—Water-stage recorder. Datum of gage is 4,223.93 ft (1,287.454 m) above mean sea level, datum of 1929. Prior to Oct. 22, 1952, at site 350 ft (107 m) downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft (122 m) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 995 ft³/s (28.2 m³/s) April 12 (gage height, 2.64 ft or 0.805 m); minimum, 150 ft³/s (4.25 m³/s) Oct. 15.

Period of record: Maximum discharge, 1,700 ft³/s (48.1 m³/s) June 7, 1952; maximum gage height, 8.84 ft (2.694 m) May 7, 1952 (site and datum then in use); no flow Jan. 21 to Feb. 28, 1963.

REMARKS.—Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	264	347	528	554	708	676	675	700	216	184	233
2	274	237	338	439	554	774	702	626	697	223	190	250
3	239	284	251	493	550	787	664	576	719	263	227	254
4	215	280	310	464	551	725	626	547	696	239	220	248
5	201	276	301	415	547	640	606	572	710	306	213	288
6	211	272	297	423	553	672	606	596	728	276	211	278
7	226	266	297	476	558	686	581	581	639	263	230	283
8	266	263	306	474	550	661	601	625	654	208	220	299
9	300	257	310	487	566	621	621	750	567	197	220	311
10	297	254	310	498	566	597	745	930	483	183	220	288
11	246	251	310	508	568	625	895	915	420	194	210	257
12	215	270	315	518	572	629	885	895	459	205	210	280
13	200	294	324	518	576	626	890	890	447	190	210	270
14	185	251	324	528	574	603	895	740	616	183	203	276
15	159	270	324	532	585	608	880	621	655	218	265	267
16	216	300	324	562	593	630	830	606	680	259	246	247
17	207	332	328	630	594	641	820	611	660	276	235	234
18	204	450	351	655	585	650	825	567	552	404	246	215
19	183	478	338	635	619	658	860	562	513	351	246	219
20	196	231	338	630	623	616	916	630	464	308	245	207
21	171	289	328	586	609	581	901	626	395	301	249	199
22	182	295	342	542	632	611	900	547	361	255	245	209
23	207	299	342	567	614	596	890	513	338	201	242	221
24	220	297	324	567	619	581	890	454	328	201	222	237
25	228	282	347	557	635	606	905	430	310	205	217	229
26	201	299	328	557	638	627	925	547	288	187	225	253
27	216	264	415	552	640	638	935	760	255	208	202	247
28	232	277	439	557	658	646	950	880	255	229	203	248
29	236	282	493	557	-----	648	899	905	243	203	235	232
30	223	302	675	549	-----	698	725	830	235	174	233	250
31	246	-----	572	547	-----	697	-----	773	-----	180	230	-----
TOTAL	6,894	8,666	10,948	16,551	16,483	20,086	24,044	20,780	15,067	7,306	6,954	7,529
MEAN	222	289	353	534	589	648	801	670	502	236	224	251
MAX	300	478	675	655	658	787	950	930	728	404	265	311
MIN	159	231	251	415	547	581	581	430	235	174	184	199
AC-FT	13,670	17,190	21,720	32,830	32,690	39,840	47,690	41,220	29,890	14,490	13,790	14,930
CAL YR 1973	TOTAL 136,931		MEAN 375	MAX 1,160	MIN 110	AC-FT 271,600						
WTR YR												

10171000 Jordan River at Salt Lake City, Utah

LOCATION.--Lat 40°43'39", long 111°55'26". in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.1 S., R.1 W., Salt Lake County, on left bank 800 ft (244 m) downstream from diversion structure at head of Surplus Canal, 0.2 mile (0.3 km) downstream from highway bridge on 21st South Street, Salt Lake City, and 2 miles (3 km) downstream from Mill Creek.

DRAINAGE AREA.--3,420 mi² (8,858 km²) includes 255 mi² (660 km²) closed basin in Cedar Valley.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220.73 ft (1,286.479 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--31 years (1943-74), 141 ft³/s (3.99 m³/s), 102,200 acre-ft/yr (126 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 267 ft³/s (7.56 m³/s) Nov. 18 (gage height, 4.37 ft or 1.332 m); minimum recorded, 31 ft³/s (0.88 m³/s) April 30. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 1,060 ft³/s (30.0 m³/s) May 29; minimum daily, 336 ft³/s (9.52 m³/s) Oct. 15.

Period of record: Maximum discharge, 384 ft³/s (10.9 m³/s) June 3, 1944; maximum gage height, 5.75 ft (1.753 m) June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964 and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum combined discharge (Jordan River and Surplus Canal), 1,820 ft³/s (51.5 m³/s) June 7, 1952; minimum daily, 89 ft³/s (2.52 m³/s) June 23, 1961.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 800 ft (244 m) upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	178	187	163	173	137	128	31	176	170	167	147
2	178	174	179	154	173	112	137	31	167	172	168	148
3	186	180	171	158	172	96	132	31	161	176	174	150
4	186	178	182	176	172	125	139	31	148	175	172	148
5	182	178	181	192	171	172	148	31	153	185	171	151
6	185	179	181	192	170	154	145	31	154	180	170	151
7	186	179	180	196	172	137	142	31	148	179	171	151
8	191	178	179	192	171	134	139	31	147	173	173	152
9	196	179	178	190	171	131	139	31	142	174	165	153
10	197	178	179	188	170	128	95	31	137	172	154	154
11	191	176	181	187	171	130	59	31	133	174	154	177
12	186	168	180	188	171	131	99	31	134	175	154	177
13	184	158	180	187	171	132	51	31	155	173	152	173
14	181	178	176	188	172	128	48	31	186	171	153	172
15	177	193	180	188	172	128	45	31	165	175	130	182
16	185	231	180	190	172	126	118	31	165	182	147	185
17	184	244	181	181	172	126	103	31	163	183	144	184
18	184	250	181	165	171	127	103	31	157	192	144	181
19	181	228	179	170	173	125	93	31	153	191	144	181
20	183	176	178	173	172	126	70	31	168	188	126	180
21	177	184	176	171	169	128	63	31	186	188	121	178
22	178	183	177	170	173	131	61	31	183	182	121	179
23	166	183	177	172	170	131	60	31	181	175	132	181
24	150	181	175	170	170	127	61	113	180	174	148	184
25	166	178	176	170	171	128	45	164	178	174	147	182
26	168	182	174	174	170	127	31	169	174	170	148	162
27	172	179	182	172	170	125	31	170	172	171	146	180
28	174	180	184	173	168	127	31	166	176	172	145	179
29	174	180	191	173	-----	129	31	151	174	171	148	178
30	172	182	185	173	-----	131	31	136	171	168	149	173
31	175	-----	170	173	-----	128	-----	153	-----	168	148	-----
TOTAL	5,555	5,595	5,560	5,509	4,793	4,017	2,578	1,935	4,887	5,473	4,686	5,074
MEAN	179	187	179	178	171	130	85.9	62.4	163	177	151	169
MAX	197	250	191	196	173	172	148	170	186	192	174	186
MIN	150	158	170	154	168	96	31	31	133	168	121	147
AC=FT	11,020	11,100	11,030	10,930	9,510	7,970	5,110	3,840	9,690	10,860	9,290	10,060

CAL YR 1973 TOTAL 59,344 MEAN 163 MAX 250 MIN 35 AC=FT 117,700
WTR YR 1974 TOTAL 55,662 MEAN 152 MAX 250 MIN 31 AC=FT 110,400

JORDAN RIVER BASIN

10170490 Jordan River at Salt Lake City, Utah--continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal
at Salt Lake City, Utah water year October 1973 to September 1974

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	442	534	691	727	845	804	705	876	386	351	380
2	452	411	517	593	727	886	839	657	864	395	358	398
3	425	464	422	651	722	883	796	607	880	439	401	404
4	401	458	492	640	723	850	765	578	844	414	392	396
5	383	454	482	607	718	812	754	603	863	491	384	439
6	396	451	478	615	723	826	751	627	882	456	381	429
7	412	445	477	672	730	823	723	612	787	442	401	434
8	457	441	485	666	721	795	740	656	801	381	393	451
9	496	436	488	677	737	752	760	781	709	371	385	464
10	494	432	489	686	736	725	840	961	620	355	374	462
11	437	427	491	695	739	755	954	946	553	368	364	434
12	401	438	495	706	743	760	984	925	593	380	364	457
13	384	452	504	705	747	758	941	921	602	363	362	443
14	366	429	500	716	746	731	943	771	802	354	356	448
15	336	463	504	720	757	736	925	652	820	393	395	449
16	401	531	504	752	765	756	948	637	845	441	393	433
17	391	576	509	811	766	767	923	642	823	459	379	418
18	388	700	532	820	756	777	928	598	709	596	390	396
19	364	706	517	805	792	783	953	593	666	542	390	400
20	379	407	516	803	795	742	986	661	632	496	371	387
21	348	473	504	757	778	709	964	657	581	489	370	377
22	360	478	519	712	805	742	961	579	544	437	366	388
23	373	482	519	739	784	727	950	544	519	376	374	402
24	370	478	499	737	789	708	951	567	508	375	370	421
25	394	460	523	727	806	734	950	594	488	379	364	411
26	369	481	502	731	808	754	956	716	462	357	373	415
27	388	443	597	724	810	763	966	930	427	379	348	427
28	406	457	623	730	826	773	981	1,050	431	401	348	427
29	410	462	684	730	-----	777	930	1,060	417	374	383	410
30	395	484	860	722	-----	829	756	966	406	342	382	423
31	421	-----	742	720	-----	825	-----	926	-----	348	378	-----
TOTAL	12,449	14,261	16,508	22,060	21,276	24,103	26,622	22,723	19,954	12,779	11,640	12,603
MEAN	402	475	533	712	760	778	887	733	665	412	375	420
MAX	496	706	860	820	826	886	986	1,060	882	596	401	464
MIN	336	407	422	593	718	708	723	544	406	342	348	377
AC-FT	24,690	28,290	32,740	43,760	42,200	47,810	52,800	45,070	39,580	25,350	23,090	25,000

CAL YR 1973	TOTAL 196,275	MEAN 538	MAX 1,240	MIN 249	AC-FT 389,300
WTR YR 1974	TOTAL 216,978	MEAN 594	MAX 1,060	MIN 336	AC-FT 430,400

10172200 Red Butte Creek at Fort Douglas, near Salt Lake City, Utah
(Hydrologic bench-mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW¼SW¼NE¼ sec.35, T.1 N., R.1 E., Salt Lake County, on right bank 0.4 mile (0.6 km) upstream from dam forming Red Butte Reservoir, 1.5 miles (2.4 km) northeast of Fort Douglas, and 5 miles (8 km) east of Salt Lake City post office.

DRAINAGE AREA.--7.25 mi² (18.8 km²).

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District office, Geological Survey.

GAGE.--Water-stage recorder and concrete Parshall flume. Altitude of gage is 5,400 ft (1,646 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 4.19 ft³/s (0.119 m³/s), 3,040 acre-ft/yr (3.75 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 39 ft³/s (1.10 m³/s) Apr. 20 (gage height, 2.78 ft or 0.847 m); minimum, 1.4 ft³/s (0.040 m³/s) Dec. 30.
Period of record: Maximum discharge, 39 ft³/s (1.10 m³/s) Apr. 20, 1974 (gage height, 2.78 ft or 0.847 m); minimum 0.5 ft³/s (0.014 m³/s) Oct. 7, 12, 1963.

REMARKS.--Records excellent. No regulation or diversion above station. Discharge measurements generally made once a month. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas. Records of chemical analysis, suspended-sediment loads, and water temperatures for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.5	2.3	2.2	2.3	3.6	9.7	27	12	5.6	3.3	2.1
2	2.2	2.4	2.4	1.8	2.3	6.0	10	29	12	5.7	3.3	2.1
3	2.2	2.4	2.2	2.1	2.3	5.9	9.1	31	12	5.6	3.3	2.1
4	2.2	2.3	2.3	2.1	2.3	4.8	8.7	30	12	5.4	3.2	2.1
5	2.2	2.2	2.2	2.2	2.2	4.5	8.5	31	12	5.2	3.1	2.0
6	2.1	2.3	2.3	2.2	2.6	4.4	8.6	32	11	4.9	3.1	2.0
7	2.1	2.4	2.2	2.1	2.5	4.4	8.5	32	11	4.8	3.1	2.0
8	2.4	2.5	2.1	2.1	2.7	4.7	8.5	33	11	4.8	3.1	2.0
9	2.4	2.4	2.1	2.1	2.7	4.9	8.7	33	11	4.7	3.0	2.0
10	2.2	2.3	2.1	2.1	2.6	5.6	7.9	32	10	4.6	3.0	1.9
11	2.2	2.3	2.1	2.1	2.6	6.4	10	30	9.8	4.5	2.9	2.0
12	2.2	2.4	2.1	2.1	2.3	7.2	9.9	28	9.4	4.4	3.0	2.1
13	2.2	2.4	2.1	2.1	2.3	8.2	9.4	26	9.1	4.3	2.9	2.1
14	2.2	2.3	2.1	2.1	2.4	8.9	9.5	24	8.8	4.3	2.8	2.1
15	2.2	2.2	2.1	2.1	2.4	11	11	23	8.5	4.4	2.8	2.2
16	2.1	2.2	2.1	2.1	2.6	11	13	22	8.2	4.5	2.7	2.1
17	2.1	2.2	2.1	2.1	2.7	12	18	21	7.9	4.5	2.7	2.0
18	2.1	2.5	2.2	2.1	2.6	12	22	20	7.7	4.4	2.6	2.0
19	2.1	2.4	2.1	2.1	2.7	11	25	19	7.4	4.2	2.5	2.0
20	2.1	2.2	2.1	2.2	2.7	10	34	19	7.2	4.1	2.6	2.1
21	2.1	2.2	2.1	2.2	2.8	9.7	28	19	7.1	4.0	2.6	2.1
22	2.1	2.1	2.1	2.2	2.7	9.2	26	18	6.9	4.0	2.6	2.1
23	2.3	2.1	2.2	2.2	2.7	8.6	28	17	6.7	3.9	2.5	2.1
24	2.4	2.2	2.0	2.2	2.6	8.5	32	16	6.5	3.8	2.4	2.0
25	2.3	2.1	2.0	2.2	2.5	8.5	34	16	6.3	3.7	2.3	2.0
26	2.2	2.2	2.2	2.2	2.6	8.7	36	15	6.2	3.7	2.3	2.1
27	2.2	2.2	2.2	2.2	2.6	9.2	34	15	6.1	3.5	2.3	2.0
28	2.1	2.1	2.3	2.2	2.6	9.7	31	14	5.9	3.5	2.2	2.1
29	2.3	2.2	2.5	2.2	-----	9.7	28	14	5.8	3.4	2.2	2.1
30	2.3	2.2	2.1	2.2	-----	9.7	27	13	5.7	3.4	2.2	2.1
31	2.3	-----	2.3	2.2	-----	9.8	-----	13	-----	3.3	2.1	-----
TOTAL	68.3	68.4	67.3	66.3	70.9	247.8	554.0	712	261.2	135.1	84.7	61.7
MEAN	2.20	2.28	2.17	2.14	2.53	7.99	18.5	23.0	8.71	4.36	2.73	2.06
MAX	2.4	2.5	2.5	2.2	2.8	12	36	33	12	5.7	3.3	2.2
MIN	2.1	2.1	2.0	1.8	2.2	3.6	7.9	13	5.7	3.3	2.1	1.9
AC-FT	135	136	133	132	141	492	1,100	1,410	518	268	168	122
CAL YR 1973	TOTAL 1,561.2		MEAN 4.28		MAX 19	MIN 1.8	AC-FT 3,100					
WTR YR 1974	TOTAL 2,397.7		MEAN 6.57		MAX 36	MIN 1.8	AC-FT 4,760					

PEAK DISCHARGE (BASE, 10 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-17	2000	1.36	13	4-25	2200	2.66	36
4-20	0300	2.78	39				

JORDAN RIVER BASIN

10172630 Goggin Drain near Magna, Utah

LOCATION.—Lat 40°49'00", long 112°06'00", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.1 N., R.2 W., Salt Lake County, about 7 miles (11 km) downstream from Surplus Canal wasteway, 3.3 miles (5.3 km) north of Saltair, and 7.2 miles (11.6 km) north of Magna.

PERIOD OF RECORD.—October 1963 to September 1968, October 1971 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 4,204 ft (1,281 m) from topographic map.

AVERAGE DISCHARGE.—8 years, 99.2 ft³/s (2.809 m³/s), 71,870 acre-ft/yr (88.6 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 638 ft³/s (18.1 m³/s) Apr. 12 (gage height, 5.36 ft or 1.634 m); minimum, 12 ft³/s (0.34 m³/s) many days in July and August.

Period of record: Maximum discharge, 680 ft³/s (19.3 m³/s) May 26, 1973 (gage height, 5.47 ft or 1.667 m); no flow several days many years.

REMARKS.—Records good. The drain carries natural drainage and surplus water spilled from canals from the area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	28	26	122	321	385	400	465	462	33	37	140
2	28	28	36	195	321	421	449	425	436	38	35	152
3	30	31	24	196	316	363	429	381	450	33	27	165
4	30	33	23	187	314	386	410	364	450	27	24	157
5	27	31	23	142	317	428	401	364	452	27	21	102
6	21	29	23	118	312	462	402	374	465	25	25	19
7	21	31	23	145	316	475	382	370	429	17	48	15
8	15	35	23	210	306	460	395	389	407	14	82	14
9	14	39	23	215	314	432	428	452	364	12	14	14
10	16	38	23	193	316	403	511	513	320	38	14	14
11	16	41	24	194	315	416	581	516	320	21	14	14
12	16	45	25	195	314	418	623	514	218	14	12	14
13	14	39	25	197	315	415	576	510	241	14	12	14
14	14	47	25	197	316	401	599	473	304	14	12	14
15	15	46	25	201	321	399	585	401	321	14	12	14
16	15	45	25	210	324	406	551	345	322	14	12	14
17	16	42	25	284	330	412	524	322	340	20	12	14
18	20	46	29	396	323	414	518	341	324	14	12	14
19	21	54	29	412	336	406	526	332	294	14	12	14
20	20	45	54	409	349	415	565	378	267	14	12	14
21	26	44	95	399	346	385	565	434	130	14	12	14
22	23	44	95	364	375	408	554	364	127	20	12	14
23	25	44	100	375	368	404	555	304	114	24	12	14
24	29	44	100	377	361	382	555	277	76	25	12	14
25	28	43	100	373	362	397	574	216	36	36	16	14
26	31	42	99	370	338	410	589	199	42	35	18	36
27	29	44	102	369	361	427	563	311	33	29	23	78
28	24	38	111	369	370	434	560	458	34	23	21	39
29	26	34	110	351	-----	430	549	531	35	24	30	14
30	25	26	153	314	-----	423	492	533	28	30	83	14
31	25	-----	125	319	-----	423	-----	475	-----	34	136	-----
TOTAL	685	1,176	1,723	8,398	9,277	12,840	15,411	12,331	7,841	711	824	1,183
MEAN	22.1	39.2	55.6	271	331	414	514	398	261	22.9	26.6	39.4
MAX	31	54	153	412	375	475	623	533	465	38	136	165
MIN	14	26	23	118	306	363	382	199	28	12	12	14
AC-FT	1,360	2,330	3,420	16,660	18,400	25,470	30,570	24,460	15,550	1,410	1,630	2,350

CAL YR 1973 TOTAL 56,416 MEAN 155 MAX 636 MIN 14 AC-FT 111,900
WTR YR 1974 TOTAL 72,400 MEAN 198 MAX 623 MIN 12 AC-FT 143,600

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LOCATION.—Lat 40°46'50", long 112°08'19", in SW 1/4 sec.36, T.1 N., R.3 W., Salt Lake County, on right bank on upstream side of wooden bridge, and 5 miles (8 km) northwest of Magna.

GAGE.--Water-stage recorder. Altitude of gage is 4,205 ft (1,282 m) from topographic map.

EXTREMES.—Current year: Maximum discharge, 94 ft³/s (2.66 m³/s) Apr. 10 (gage height, 3.21 ft or 0.978 m); minimum, 0.93 ft³/s (0.026 m³/s) Oct. 19.

Period of record: Maximum discharge, 94 ft³/s (2.66 m³/s) Apr. 10, 1974 (gage height, 3.21 ft or 0.978 m); minimum, 0.050 ft³/s (0.014 m³/s) June 17, 1972.

REMARKS.--Records fair.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	2.4	3.0	4.9	9.2	8.9	1.9	1.9	2.4	3.3	4.6	6.2
2	6.8	1.2	3.0	4.6	7.3	20	16	2.0	2.8	6.0	4.4	4.4
3	3.0	4.9	3.0	4.6	4.6	13	17	1.7	3.1	3.5	6.2	4.4
4	2.6	4.0	3.0	4.2	4.9	9.5	17	1.9	3.1	3.1	6.0	13
5	2.4	2.0	3.0	4.2	13	13	9.5	1.6	3.1	3.0	4.9	9.9
6	2.8	2.6	2.4	4.2	7.3	18	4.9	1.6	3.5	3.0	4.4	4.4
7	2.3	1.5	2.4	5.7	7.3	11	3.8	1.6	5.7	1.9	3.3	3.0
8	3.3	1.5	2.4	8.3	6.0	5.4	2.8	1.6	5.4	1.9	2.8	2.8
9	2.0	1.5	2.4	7.3	5.4	5.7	9.2	1.6	3.8	1.5	2.8	3.5
10	3.3	1.3	2.3	5.7	4.4	4.6	60	1.9	2.4	2.1	2.1	4.4
11	2.3	1.3	3.3	5.2	4.2	3.8	44	1.4	1.9	3.0	2.0	3.8
12	1.4	4.9	3.5	5.4	4.2	3.1	42	1.7	1.6	2.3	2.0	3.1
13	1.2	3.0	2.3	4.9	4.9	4.0	44	1.5	1.6	2.0	2.1	3.5
14	1.2	2.6	2.1	5.4	4.4	7.9	34	1.6	1.5	1.5	3.5	3.0
15	1.1	1.5	2.0	5.4	4.6	10	29	1.9	1.3	3.5	4.4	2.8
16	1.2	1.5	1.9	8.9	4.2	8.6	26	1.9	1.2	6.2	3.0	3.1
17	1.5	1.4	4.0	27	11	7.3	22	2.0	1.5	6.8	3.0	3.0
18	1.2	11	11	21	10	7.3	21	1.6	1.4	2.6	2.6	2.8
19	1.3	8.3	4.0	23	19	6.0	18	1.9	1.4	1.9	3.0	2.8
20	1.1	6.5	3.3	20	11	5.2	12	6.5	1.6	3.1	2.6	3.8
21	1.2	9.2	3.3	21	8.6	4.2	5.4	3.5	1.6	4.6	2.4	6.0
22	1.1	7.6	4.6	18	9.9	3.8	4.2	4.0	2.0	5.4	3.5	4.2
23	4.2	5.0	6.0	18	6.2	3.3	4.9	4.2	3.1	3.5	7.3	4.4
24	2.6	3.0	4.4	18	4.4	2.4	4.4	3.1	3.3	3.5	8.3	4.6
25	2.1	3.0	5.7	13	4.6	2.3	4.9	3.0	4.0	4.0	4.2	6.5
26	1.7	3.0	2.4	11	7.0	2.4	3.8	3.0	3.5	3.8	3.3	19
27	1.4	3.0	3.5	11	8.6	2.1	2.0	2.1	2.4	2.4	3.8	16
28	1.4	3.0	7.9	8.3	8.9	3.0	1.7	1.9	3.8	2.1	3.1	5.7
29	3.0	3.0	13	15	-----	1.9	2.1	1.6	2.4	3.0	4.2	4.6
30	1.2	3.0	14	14	-----	1.9	1.9	2.6	2.0	3.8	4.4	4.9
31	1.4	-----	4.6	9.9	-----	2.4	-----	2.8	-----	4.9	5.4	-----
TOTAL	73.2	107.7	133.7	337.1	205.1	202.0	469.4	71.2	78.4	103.2	119.6	163.6
MEAN	2.36	3.59	4.31	10.9	7.33	6.52	15.6	2.30	2.61	3.33	3.86	5.45
MAX	9.9	11	14	27	19	20	60	6.5	5.7	6.8	8.3	19
MIN	1.1	1.2	1.9	4.2	4.2	1.9	1.7	1.4	1.2	1.5	2.0	2.8
AC-FT	145	214	265	669	407	401	931	141	156	205	237	325

CAL YR 1973	TOTAL	2,432.6	MEAN	6.66	MAX	38	MIN	1.1	AC-FT	4,830
WTR YR 1974	TOTAL	2,064.2	MEAN	5.66	MAX	60	MIN	1.1	AC-FT	4,090

JORDAN RIVER BASIN

10172650 Kennecott Drain near Magna, Utah

LOCATION.—Lat 40°45'28", long 112°10'14", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.1 S., R.3 W., Salt Lake County, on left bank about 300 ft (91 m) downstream from culvert on U.S. Highway 40, and 4.5 miles (7.2 km) northwest of Magna.

RECORDS AVAILABLE.—October 1963 to September 1967. October 1971 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 4,210 ft (1,283 m) from topographic map.

AVERAGE DISCHARGE.—8 years, 108 ft³/s (3.059 m³/s), 78,250 acre-ft/yr (96.5 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 262 ft³/s (7.42 m³/s) Apr. 12 (gage height, 5.23 ft or 1.594 m); minimum recorded discharge, 51 ft³/s (1.44 m³/s) Jan. 8.

Period of record: Maximum discharge, 389 ft³/s (11.0 m³/s) Mar. 18, 1964 (gage height, 5.50 ft or 1.676 m) result of break in dike of Kennecott tailings pond; minimum discharge, 25 ft³/s (0.71 m³/s) Dec. 9, 1972.

REMARKS.—Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	161	222	121	135	90	121	117	115	102	93	128
2	183	156	228	100	126	105	158	129	115	105	107	139
3	187	164	229	100	119	126	184	133	119	106	115	140
4	156	183	213	100	119	131	180	139	118	94	115	132
5	158	180	213	100	112	118	152	121	131	103	121	139
6	175	183	199	100	103	141	141	124	137	79	110	115
7	163	184	189	102	115	138	129	123	158	72	112	130
8	168	173	206	70	112	105	117	112	158	86	101	131
9	175	161	196	87	99	119	126	120	147	90	98	150
10	169	143	181	70	105	138	163	130	123	87	93	159
11	165	154	157	65	113	136	238	116	113	87	103	151
12	166	171	147	65	101	127	236	127	105	88	114	151
13	150	123	163	65	111	125	230	117	111	88	117	151
14	136	140	168	89	109	132	208	112	104	91	107	138
15	103	184	153	141	108	135	180	123	103	114	99	143
16	133	192	160	161	115	143	157	128	98	127	105	145
17	140	185	159	184	118	146	149	129	99	127	106	142
18	137	171	199	206	126	146	139	117	110	145	112	136
19	121	222	220	185	132	142	142	125	101	154	117	133
20	140	194	216	174	141	150	121	145	91	146	121	123
21	141	178	192	150	117	129	127	131	89	118	112	123
22	153	201	191	111	108	130	127	143	93	105	114	131
23	156	199	177	91	110	145	125	141	84	101	117	137
24	153	189	186	97	105	141	119	135	86	89	117	132
25	153	191	167	130	106	139	110	132	88	104	121	123
26	159	189	169	128	111	140	117	125	78	95	149	121
27	156	177	123	122	119	133	116	136	78	104	144	108
28	159	174	117	99	105	138	119	133	92	103	121	114
29	170	191	151	108	-----	134	117	130	96	89	123	126
30	165	199	167	128	-----	135	117	122	93	88	114	128
31	151	-----	129	133	-----	129	-----	122	-----	99	122	-----
TOTAL	4,822	5,312	5,587	3,582	3,200	4,086	4,465	3,937	3,233	3,186	3,520	4,019
MEAN	156	177	180	116	114	132	149	127	108	103	114	134
MAX	187	222	229	206	141	150	238	145	158	154	149	159
MIN	103	123	117	65	99	90	110	112	78	72	93	108
AC-FT	9,560	10,540	11,080	7,100	6,350	8,100	8,860	7,810	6,410	6,320	6,980	7,970

CAL YR 1973 TOTAL 54,520 MEAN 149 MAX 300 MIN 50 AC-FT 108,100
WTR YR 1974 TOTAL 48,949 MEAN 134 MAX 238 MIN 65 AC-FT 97,090

RUSH VALLEY

235

10172700 Vernon Creek near Vernon, Utah

LOCATION.—Lat 39°58'46", long 112°22'46", in NE¼SW¼SW¼ sec.2, T.10 S., R.5 W., Tooele County, on right bank 7 miles (11 km) upstream from confluence with Dutch Creek forming Faust Creek and 8 miles (13 km) southeast of Vernon.

DRAINAGE AREA.—31.2 mi² (80.8 km²).

PERIOD OF RECORD.—June 1958 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m) from AMS topographic map.

AVERAGE DISCHARGE.—16 years, 2.36 ft³/s (0.0668 m³/s), 1,710 acre-ft/yr (2.11 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 5.2 ft³/s (0.15 m³/s) Oct. 8 (gage height, 1.04 ft or 0.317 m); maximum gage height, 1.79 ft (0.546 m) Jan. 2 (backwater from ice); minimum discharge, 2.0 ft³/s (0.057 m³/s) many days in August and September.

Period of record: Maximum discharge, 825 ft³/s (23.4 m³/s) Aug. 27, 1972 (based on slope-area measurement); minimum, 0.41 ft³/s (0.012 m³/s) Nov. 20, 1961.

REMARKS.—Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.2	3.9	3.6	3.4	3.6	3.8	3.6	3.4	2.5	2.6	2.2
2	4.3	4.2	3.9	3.6	3.4	3.6	3.8	3.8	3.4	2.5	2.9	2.2
3	4.4	4.2	3.9	3.6	3.4	3.6	3.6	3.8	3.4	2.5	2.8	2.2
4	4.3	4.2	3.9	3.6	3.4	3.6	3.6	3.8	3.4	2.5	2.6	2.2
5	4.3	4.2	3.7	3.6	3.6	3.6	3.6	3.8	3.4	2.5	2.6	2.2
6	4.3	3.9	3.7	3.6	3.6	3.6	3.6	4.1	3.4	2.5	2.6	2.4
7	4.4	3.9	3.8	3.6	3.6	3.6	3.6	4.1	3.4	2.4	2.4	2.4
8	4.6	3.9	3.7	3.6	3.6	3.6	3.4	4.1	3.4	2.5	2.4	2.4
9	4.5	3.9	3.7	3.6	3.6	3.6	3.4	4.1	3.4	2.4	2.4	2.4
10	4.4	3.9	3.7	3.6	3.6	3.6	3.6	4.1	3.4	2.4	2.3	2.4
11	4.4	3.9	3.7	3.6	3.4	3.6	3.6	4.1	3.4	2.4	2.2	2.5
12	4.4	3.9	3.7	3.6	3.4	3.6	3.6	3.8	3.4	2.4	2.2	2.6
13	4.2	3.9	3.8	3.4	3.4	3.6	3.4	3.8	3.1	2.4	2.2	2.6
14	4.2	3.8	3.7	3.6	3.4	3.6	3.4	3.8	3.1	2.4	2.2	2.6
15	4.2	3.8	3.7	3.6	3.4	3.6	3.4	3.8	3.1	2.5	2.2	2.6
16	4.2	3.8	3.7	3.6	3.4	3.6	3.4	3.6	3.1	2.5	2.2	2.5
17	4.2	3.9	3.8	3.6	3.4	3.8	3.4	3.6	3.1	2.5	2.1	2.5
18	4.2	4.0	3.8	3.8	3.4	3.8	3.4	3.6	3.1	2.5	2.1	2.4
19	4.3	3.8	3.7	3.6	3.4	3.6	3.4	3.6	3.1	2.7	2.1	2.4
20	4.4	3.9	3.6	3.4	3.4	3.6	3.4	3.6	3.1	2.7	2.1	2.5
21	4.2	3.9	3.7	3.4	3.5	3.6	3.4	3.6	3.1	2.5	2.2	2.5
22	4.1	3.8	3.7	3.6	3.5	3.6	3.4	3.6	3.1	2.5	2.2	2.6
23	4.2	3.9	3.7	3.4	3.5	3.4	3.4	3.6	2.9	2.6	2.2	2.6
24	4.2	3.9	3.7	3.4	3.5	3.4	3.4	3.4	2.9	2.7	2.1	2.6
25	4.2	3.9	3.7	3.4	3.4	3.4	3.4	3.4	2.9	2.7	2.1	2.6
26	4.2	3.9	3.7	3.6	3.6	3.4	3.4	3.4	2.9	2.8	2.2	2.7
27	4.2	3.9	3.8	3.6	3.6	3.6	3.6	3.4	2.9	2.8	2.1	2.7
28	4.2	3.8	3.9	3.6	3.6	3.6	3.8	3.4	2.9	2.6	2.2	2.8
29	4.2	3.9	4.0	3.4	-----	3.6	3.8	3.4	2.9	2.6	2.2	2.8
30	4.2	3.9	3.8	3.4	-----	3.8	3.6	3.4	2.7	2.6	2.2	2.8
31	4.2	-----	3.6	3.4	-----	3.8	-----	3.4	-----	2.8	2.2	-----
TOTAL	132.6	118.0	116.4	110.0	97.4	111.6	105.6	114.6	94.8	78.9	71.1	74.9
MEAN	4.28	3.93	3.75	3.55	3.48	3.60	3.52	3.70	3.16	2.55	2.29	2.50
MAX	4.6	4.2	4.0	3.8	3.6	3.8	3.8	4.1	3.4	2.8	2.9	2.8
MIN	4.1	3.8	3.6	3.4	3.4	3.4	3.4	3.4	2.7	2.4	2.1	2.2
AC-FT	263	234	231	218	193	221	209	227	188	156	141	149
CAL YR 1973	TOTAL 2,104.8											
WTR YR 1974	TOTAL 1,225.9											
	MEAN 5.77											
	MAX 55											
	MIN 1.9											
	AC-FT 4,170											
	MIN 2.1											
	AC-FT 2,430											

PEAK DISCHARGE (BASE, 10 CFS). No peak above base.

TOOELE VALLEY

10172800 South Willow Creek near Grantsville, Utah

LOCATION.—Lat 40°29'47", long 112°34'25", in SW¼NW¼SW¼ sec.6, T.4 S., R.6 W., Tooele County, on right bank 200 ft (61 m) upstream from Forest Service Guard Station, 1.7 miles (2.7 km) above Wasatch National Forest boundary, 9.2 miles (14.8 km) southwest of Grantsville, and 14.8 miles (23.8 km) west of Tooele.

DRAINAGE AREA.—4.19 mi² (10.85 km²). Area at crest-stage gage site, 3.26 mi² (8.44 km²).

PERIOD OF RECORD.—July 1963 to current year. Annual maximum only July 1960 to July 1963 at crest-stage gage site.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 6,360 ft (1,939 m) from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 miles (2.3 km) upstream at different datum.

AVERAGE DISCHARGE.—11 years, 6.53 ft³/s (0.185 m³/s), 4,730 acre-ft/yr (5.83 km³/yr).

EXTREMES.—Current year: Maximum discharge, 28 ft³/s (0.79 m³/s) May 29 (gage height, 1.96 ft or 0.597 m); minimum, 3.1 ft³/s (0.088 m³/s) many days in January and September.

Period of record: Maximum discharge, 92 ft³/s (2.61 m³/s) June 8, 1964 (gage height, 2.27 ft or 0.692 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Jan. 6–12, 1967.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.1	3.5	3.3	3.6	3.6	4.2	7.0	23	8.0	5.3	3.5
2	4.1	4.1	3.4	3.3	3.6	3.9	4.2	7.0	23	7.5	5.3	3.4
3	4.1	4.1	3.3	3.3	3.6	3.8	3.9	7.5	23	7.5	5.3	3.3
4	4.1	4.1	3.4	3.3	3.6	3.7	3.8	8.0	22	7.0	5.1	3.3
5	4.1	4.1	3.5	3.3	3.6	3.3	3.8	9.0	23	7.0	5.0	3.3
6	4.1	4.1	3.3	3.3	3.6	3.5	3.8	11	21	6.6	5.0	3.3
7	4.1	4.1	3.4	3.3	3.6	3.6	3.6	12	19	6.1	5.0	3.3
8	4.1	4.1	3.5	3.3	3.6	3.6	3.6	14	17	6.1	4.7	3.3
9	4.1	4.1	3.3	3.3	3.6	3.5	3.9	17	15	5.7	4.5	3.3
10	4.1	4.1	3.3	3.3	3.6	3.6	4.0	21	13	5.7	4.4	3.3
11	4.1	4.1	3.3	3.3	3.6	3.6	3.9	22	12	5.7	4.3	3.3
12	4.1	4.1	3.3	3.3	3.6	3.6	4.0	22	12	5.7	4.3	3.3
13	4.1	4.1	3.3	3.3	3.6	3.7	4.0	21	13	5.3	4.3	3.3
14	4.1	3.9	3.3	3.3	3.6	3.7	4.0	20	16	5.3	4.2	3.3
15	4.1	3.8	3.3	3.3	3.8	3.9	4.0	19	17	5.3	4.1	3.3
16	4.1	3.9	3.3	3.3	3.8	4.1	4.3	17	17	5.7	4.1	3.3
17	4.1	3.7	3.3	3.6	3.8	4.4	5.0	16	17	5.7	4.1	3.3
18	4.1	3.8	3.3	3.6	3.8	4.6	5.3	15	15	5.3	3.8	3.3
19	4.1	3.8	3.3	3.6	3.8	4.6	5.2	15	15	5.3	3.8	3.3
20	4.2	3.6	3.3	3.6	3.8	4.6	5.7	15	14	5.3	3.8	3.3
21	4.3	3.6	3.3	3.5	3.7	4.6	6.1	15	11	5.3	3.8	3.3
22	4.3	3.6	3.3	3.3	3.6	4.6	6.6	13	12	5.3	3.7	3.3
23	4.3	3.6	3.5	3.3	3.6	4.4	6.6	12	11	5.7	3.7	3.3
24	4.3	3.6	3.6	3.3	3.6	4.3	7.0	11	11	6.1	3.6	3.2
25	4.3	3.6	3.6	3.3	3.6	4.3	8.0	14	10	6.0	3.6	3.2
26	4.2	3.6	3.3	3.3	3.6	4.3	9.5	15	11	6.0	3.6	3.2
27	4.1	3.6	3.5	3.3	3.6	4.3	10	18	9.5	5.9	3.6	3.3
28	4.1	3.6	3.5	3.3	3.6	4.3	9.3	22	9.0	5.8	3.6	3.2
29	4.1	3.5	3.7	3.3	-----	4.1	8.5	25	8.5	5.4	3.5	3.2
30	4.1	3.4	3.5	3.3	-----	4.1	7.0	24	8.0	5.3	3.5	3.2
31	4.1	-----	3.3	3.5	-----	4.1	-----	22	-----	5.3	3.5	-----
TOTAL	128.2	115.5	105.0	103.9	102.1	124.3	162.8	486.5	448.0	183.9	130.1	98.7
MEAN	4.14	3.85	3.39	3.35	3.65	4.01	5.43	15.7	14.9	5.93	4.20	3.29
MAX	4.3	4.1	3.7	3.6	3.8	4.6	10	25	23	8.0	5.3	3.5
MIN	4.0	3.4	3.3	3.3	3.6	3.3	3.6	7.0	8.0	5.3	3.5	3.2
AC-FT	254	229	208	206	203	247	323	965	889	365	258	196

CAL YR 1973 TOTAL 3,084.2 MEAN 8.45 MAX 61 MIN 2.9 AC-FT 6,120
WTR YR 1974 TOTAL 2,189.0 MEAN 6.00 MAX 25 MIN 3.2 AC-FT 4,340

PEAK DISCHARGE (BASE, 20 CFS).—May 10 (1700) 23 cfs (1.91 ft); May 29 (1100) 28 cfs (1.96 ft).

10172870 Trout Creek near Callao, Utah

LOCATION.--Lat 39°44'39", long 113°53'21", in SW¼NW¼SW¼ sec.28, T.12 S., R.18 W., Juab County, on left bank 2.5 miles (4.0 km) upstream from Birch Creek and 14 miles (23 km) southwest of Callao.

DRAINAGE AREA.--8.8 mi² (22.8 km²), approximately.

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m) from topographic map.

AVERAGE DISCHARGE.--16 years, 5.21 ft³/s (0.148 m³/s), 3,770 acre-ft/yr (4.65 km³/yr).

EXTREMES.--Current year: Maximum discharge, 27 ft³/s (0.76 m³/s) May 29 (gage height, 1.70 ft or 0.518 m); minimum, 1.2 ft³/s (0.034 m³/s) many days in August and September.

Period of record: Maximum discharge, 129 ft³/s (3.65 m³/s) May 20, 1973 (gage height, 2.81 ft or 0.856 m); minimum, 0.24 ft³/s (0.01 m³/s) Feb. 25, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.8	1.8	1.5	1.5	1.9	1.9	4.7	23	4.4	2.1	1.3
2	1.8	1.8	1.9	1.5	1.5	1.9	2.0	5.6	21	4.2	2.1	1.3
3	1.8	2.0	1.8	1.5	1.5	1.8	1.9	6.5	20	4.0	2.1	1.3
4	1.8	2.0	1.8	1.5	1.6	1.7	1.9	6.9	19	3.8	1.9	1.3
5	1.8	2.0	1.8	1.5	1.6	1.7	1.9	7.5	18	3.5	1.8	1.3
6	1.7	1.9	1.8	1.5	1.6	1.7	1.9	9.4	17	3.3	1.8	1.3
7	1.7	1.9	1.8	1.5	1.6	1.6	1.9	10	16	3.1	1.8	1.3
8	2.0	1.8	1.8	1.5	1.6	1.6	1.9	14	15	3.1	1.8	1.3
9	2.0	1.8	1.6	1.5	1.6	1.7	2.0	19	13	3.0	1.8	1.3
10	1.9	1.8	1.6	1.5	1.6	1.6	2.0	24	12	2.9	1.7	1.3
11	1.9	1.7	1.8	1.5	1.6	1.7	2.8	23	11	2.9	1.7	1.3
12	1.9	1.8	1.8	1.5	1.6	1.7	2.5	23	10	2.8	1.6	1.3
13	1.9	1.8	1.9	1.5	1.6	1.7	2.6	23	10	2.6	1.6	1.4
14	1.9	1.8	1.8	1.5	1.6	1.8	2.4	21	9.7	2.5	1.5	1.4
15	1.8	1.8	1.9	1.5	1.6	1.9	2.6	20	9.1	2.6	1.5	1.4
16	1.8	1.8	1.8	1.6	1.6	2.2	3.2	20	9.0	3.4	1.5	1.3
17	1.8	1.8	1.9	1.6	1.6	2.5	4.1	20	8.6	4.0	1.4	1.3
18	1.8	2.1	1.9	1.6	1.6	2.6	5.2	19	8.3	3.1	1.4	1.3
19	1.9	1.9	1.9	1.6	1.6	2.3	4.9	18	7.9	2.9	1.4	1.4
20	1.9	1.9	1.8	1.5	1.6	2.1	4.4	17	7.7	2.8	1.5	1.4
21	2.0	2.0	1.8	1.4	1.6	2.2	4.0	15	7.5	2.7	1.5	1.4
22	2.0	1.9	1.9	1.4	1.6	2.1	4.3	14	6.9	2.5	1.4	1.4
23	2.0	1.8	1.8	1.4	1.6	2.1	5.3	13	6.7	2.5	1.4	1.4
24	2.0	1.8	1.8	1.4	1.6	2.1	6.4	12	6.4	2.5	1.4	1.4
25	2.1	1.8	1.8	1.4	1.6	2.1	7.0	13	6.0	2.3	1.4	1.4
26	2.0	1.8	1.8	1.4	1.6	2.3	7.3	16	5.7	2.4	1.3	1.4
27	2.0	1.8	1.8	1.4	1.6	2.2	6.5	21	5.5	2.4	1.3	1.4
28	2.0	1.9	1.8	1.4	1.8	2.1	5.6	26	5.2	2.2	1.3	1.4
29	1.8	1.9	1.8	1.4	-----	1.9	4.9	27	4.7	2.1	1.3	1.4
30	1.8	1.8	1.7	1.4	-----	2.0	4.6	27	4.5	2.1	1.3	1.4
31	1.8	-----	1.6	1.4	-----	2.0	-----	25	-----	2.1	1.3	-----
TOTAL	58.3	55.7	55.8	45.8	44.7	60.8	109.9	520.6	324.4	90.7	48.9	40.5
MEAN	1.88	1.86	1.80	1.48	1.60	1.96	3.66	16.9	10.8	2.93	1.58	1.35
MAX	2.1	2.1	1.9	1.6	1.8	2.6	7.3	27	23	4.4	2.1	1.4
MIN	1.7	1.7	1.6	1.4	1.5	1.6	1.9	4.7	4.5	2.1	1.3	1.3
AC-FT	116	110	111	91	89	121	218	1,030	643	180	97	80

CAL YR 1973 TOTAL 2,955.7 MEAN 8.10 MAX 93 MIN 1.4 AC-FT 5,860
WTR YR 1974 TOTAL 1,456.1 MEAN 3.99 MAX 27 MIN 1.3 AC-FT 2,890

PEAK DISCHARGE (BASE, 20 CFS).--May 11 (1000) 25 cfs (1.67 ft); May 29 (0900) 27 cfs (1.70 ft).

10173450 Mammoth Creek above West Hatch Ditch, near Hatch, Utah

LOCATION.—Lat 37°37'19", long 112°31'07", in NE¼NW¼SW¼ sec.3, T.37 S., R.6 W., Garfield County, on left bank 0.5 mile (0.8 km) upstream from West Hatch ditch diversion, 2 miles (3 km) upstream from Spring Hollow, 4.5 miles (7.2 km) upstream from mouth, and 5 miles (8 km) southwest of Hatch.

DRAINAGE AREA.—105 mi² (272 km²).

PERIOD OF RECORD.—October 1964 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 7,300 ft (2,225 m) from topographic map.

AVERAGE DISCHARGE.—10 years, 49.3 ft³/s (1.396 m³/s), 35,720 acre-ft/yr (44.0 hm³/yr).

EXTREMES.—Current year: Maximum recorded discharge, 185 ft³/s (5.24 m³/s) May 10 (gage height, 2.94 ft or 0.896 m); minimum observed, 9.1 ft³/s (0.26 m³/s) Sept. 30.

Period of record: Maximum discharge, 631 ft³/s (17.9 m³/s) May 28, 1969 (gage height, 4.85 ft or 1.478 m); minimum discharge recorded, 0.20 ft³/s (0.006 m³/s) Feb. 4, 1971, result of ice jam.

REMARKS.—Records good, except during the winter period, which are poor. One small diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	27	25	16	13	18	13	37	36	16	15	10
2	31	27	26	13	13	22	14	43	35	16	17	9.9
3	31	28	25	15	13	18	13	50	34	17	15	9.9
4	31	28	23	16	13	15	12	60	30	16	14	10
5	31	27	21	18	12	15	12	71	29	16	13	11
6	31	27	21	22	11	16	12	80	29	15	14	11
7	31	27	21	18	11	17	12	87	28	15	13	11
8	31	26	21	16	11	15	12	101	28	15	14	12
9	32	25	21	14	11	14	12	136	28	14	13	11
10	33	25	20	13	11	14	12	150	26	13	13	10
11	33	25	22	13	11	14	12	156	25	13	12	10
12	33	25	24	13	13	14	12	155	24	12	12	11
13	32	25	23	13	15	14	12	144	24	12	12	10
14	31	25	21	13	15	14	11	122	23	12	12	11
15	30	25	20	13	15	14	11	120	22	13	12	11
16	30	24	20	15	15	14	11	115	22	13	11	10
17	29	25	21	15	15	14	11	99	21	12	11	10
18	29	26	21	15	15	14	13	84	20	13	11	10
19	29	25	22	15	15	14	15	74	19	14	11	9.9
20	28	26	17	15	15	14	14	66	19	15	11	9.6
21	28	25	17	15	15	13	13	63	18	17	11	9.5
22	28	23	19	13	15	13	15	60	18	19	11	9.6
23	28	23	18	13	15	13	20	51	18	22	11	9.6
24	28	23	16	13	15	13	26	47	18	19	11	9.6
25	28	23	14	13	15	13	29	45	17	15	11	9.5
26	28	23	15	13	15	13	31	43	16	14	11	9.6
27	28	23	16	13	15	13	35	42	17	14	10	9.6
28	28	20	17	13	15	12	30	41	16	13	10	9.7
29	28	21	18	13	-----	12	31	41	16	13	10	9.6
30	27	23	18	13	-----	12	31	39	16	13	10	9.5
31	27	-----	18	13	-----	13	-----	38	-----	13	10	-----
TOTAL	924	745	621	446	383	444	507	2,460	692	454	372	304.1
MEAN	29.8	24.8	20.0	14.4	13.7	14.3	16.9	79.4	23.1	14.6	12.0	10.1
MAX	33	28	26	22	15	22	35	156	36	22	17	12
MIN	27	20	14	13	11	12	11	37	16	12	10	9.5
AC-FT	1,830	1,480	1,230	885	760	881	1,010	4,880	1,370	901	738	603

CAL YR 1973 TOTAL 30,571.0 MEAN 83.8 MAX 544 MIN 14 AC-FT 60,640
WTR YR 1974 TOTAL 8,352.1 MEAN 22.9 MAX 156 MIN 9.5 AC-FT 16,570

PEAK DISCHARGE (BASE, 250 cfs).—No peak above base.

NOTE:—No gage-height record Feb. 7 to Mar. 19.

SEVIER LAKE BASIN

239

10174500 Sevier River at Hatch, Utah

LOCATION.--Lat 37°39'07", long 112°25'47", in SW¼SW¼NW¼ sec.28, T.36 S., R.5 W., Garfield County, on left bank 300 ft (91 m) downstream from highway bridge, 0.2 mile (0.3 km) east of Hatch, and 2.8 miles (4.5 km) downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi² (881 km²), approximately.

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

GAGE.--Water-stage recorder. Altitude of gage is 6,870 ft (2,094 m) from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949.

AVERAGE DISCHARGE.--52 years, 125 ft³/s (3.54 m³/s), 90,560 acre-ft/yr (112 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 487 ft³/s (13.8 m³/s) July 22 (gage height, 3.10 ft or 0.945 m); minimum, 40 ft³/s (1.13 m³/s) Jan. 2, and Feb. 7-11.

Period of record: Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft³/s (42.2 m³/s) May 26, 1922 (gage height, 5.25 ft or 1.600 m, datum then in use); minimum daily, 10 ft³/s (0.28 m³/s) for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 27 ft³/s (0.76 m³/s) Sept. 13, 1960.

REMARKS.--Records good, except winter months, which are fair. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

REVISIONS(WATER YEARS).--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	92	98	68	48	74	62	62	70	44	48	43
2	90	92	96	40	49	108	67	68	70	44	50	44
3	90	92	98	42	51	88	65	74	70	44	51	43
4	92	92	92	47	50	71	64	83	70	46	48	43
5	92	92	90	57	48	68	65	96	69	45	48	69
6	94	92	88	77	41	74	62	108	67	45	47	46
7	94	94	90	64	40	74	61	122	65	44	47	43
8	94	92	90	56	40	70	61	131	65	45	47	42
9	96	90	88	56	40	69	61	160	62	45	46	42
10	96	90	86	42	40	69	62	174	61	44	46	42
11	96	92	88	46	40	68	64	180	58	43	46	41
12	98	94	90	52	46	68	61	180	57	43	45	41
13	98	96	88	54	49	68	61	174	58	44	44	43
14	96	94	79	54	62	68	61	155	55	44	44	42
15	94	94	76	52	61	67	57	152	55	47	44	44
16	94	92	76	52	62	67	54	149	54	46	43	43
17	92	92	76	54	62	67	54	134	53	46	44	42
18	92	96	76	54	64	67	55	120	52	45	45	41
19	92	90	73	52	64	67	56	108	51	49	45	41
20	90	90	70	52	64	64	56	102	51	48	44	41
21	90	90	70	54	63	61	54	96	51	48	44	41
22	90	90	73	49	61	61	54	94	51	86	44	41
23	90	90	73	45	60	60	51	86	52	57	43	41
24	90	90	71	45	60	60	54	83	50	51	44	42
25	90	90	71	45	60	60	58	83	49	48	43	41
26	90	90	73	50	61	61	57	81	48	47	44	41
27	90	90	68	56	60	61	62	78	45	48	44	41
28	90	90	73	52	64	61	61	74	45	47	43	41
29	90	94	73	54	-----	62	60	73	45	47	43	41
30	90	96	71	49	-----	62	58	71	45	45	43	42
31	90	-----	79	49	-----	64	-----	70	-----	45	43	-----
TOTAL	2,862	2,758	2,503	1,619	1,510	2,109	1,778	3,421	1,694	1,470	1,400	1,288
MEAN	92.3	91.9	80.7	52.2	53.9	68.0	59.3	110	56.5	47.4	45.2	42.9
MAX	98	96	98	77	64	108	67	180	70	86	51	69
MIN	90	90	68	40	40	60	51	62	45	43	43	41
AC-FT	5,680	5,470	4,960	3,210	3,000	4,180	3,530	6,790	3,360	2,920	2,780	2,550

CAL YR 1973 TOTAL 65,634 MEAN 180 MAX 931 MIN 41 AC-FT 130,200
WTR YR 1974 TOTAL 24,412 MEAN 66.9 MAX 180 MIN 40 AC-FT 48,420

PEAK DISCHARGE (BASE, 500 CFS). No peak above base.

SEVIER LAKE BASIN

10176300 Panguitch Creek near Panguitch, Utah

LOCATION.--Lat 37°46'20", long 112°32'00", in SE¼ sec.16, T.35 S., R.6 W., Garfield County, on right bank 6 miles (10 km) downstream from Panguitch Lake and 6 miles (10 km) southwest of Panguitch.

DRAINAGE AREA.--93 mi² (241 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (2,316 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 23.8 ft³/s (0.674 m³/s), 17,240 acre-ft/yr (21.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 97.0 ft³/s (2.75 m³/s) June 25 (gage height, 1.95 ft or 0.594 m); minimum recorded, 1.9 ft³/s (0.054 m³/s) Nov. 15.

Period of record: Maximum discharge, about 670 ft³/s (19.0 m³/s) Aug. 25, 1961 (gage height, 4.55 ft or 1.387 m); from rating curve extended above 65 ft³/s (1.84 m³/s) on basis of velocity-area study; no flow for part of Nov. 2, 1961.

REMARKS.--Records good, except for period of no gage-height record and July 9 to Aug. 25, which are fair. Flow regulated by Panguitch Lake, usable capacity 17,800 acre-ft (24.1 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	5.8	6.2	7.5	5.5	6.0	6.1	19	86	63	18	35
2	5.5	5.8	3.7	7.5	6.0	6.2	6.4	20	83	62	18	33
3	5.4	5.8	4.2	7.0	6.0	6.2	6.1	20	75	62	18	32
4	5.5	5.8	6.5	6.0	6.0	6.2	7.7	19	74	63	18	32
5	5.2	5.7	6.3	6.0	5.8	5.9	6.7	16	73	65	18	32
6	5.2	5.7	5.8	6.4	5.5	5.8	9.7	15	55	86	18	32
7	5.2	5.7	5.8	6.6	5.3	5.8	9.2	14	53	86	18	22
8	4.8	5.8	6.8	6.2	5.2	5.8	8.4	12	53	86	18	20
9	5.0	5.8	6.4	5.7	5.2	5.7	8.5	8.9	53	85	18	20
10	5.4	5.9	7.9	5.2	5.3	5.7	8.4	8.9	53	85	18	20
11	5.4	5.8	7.1	5.7	5.4	5.7	8.5	6.9	54	85	18	19
12	5.4	5.8	5.9	6.0	5.7	5.7	8.3	7.2	71	67	18	20
13	5.5	5.7	5.9	6.0	5.9	5.7	6.7	7.7	73	62	23	17
14	6.2	5.4	5.8	5.8	5.9	5.7	7.8	11	81	62	25	5.4
15	5.8	5.4	6.8	5.5	5.9	5.5	8.0	26	81	54	28	5.0
16	5.8	5.4	6.7	5.7	5.7	5.2	8.9	43	80	46	40	4.8
17	5.7	5.4	5.7	6.2	5.5	5.2	11	44	80	45	48	4.6
18	5.5	5.9	5.0	6.2	5.5	5.2	12	45	80	44	54	4.4
19	5.5	5.4	6.1	6.1	5.6	5.4	13	45	87	43	56	4.2
20	5.5	5.0	8.7	5.9	5.7	5.9	12	51	87	41	56	4.0
21	5.4	5.6	8.2	5.5	5.8	6.1	14	67	89	36	56	3.8
22	5.3	6.3	5.4	5.1	5.8	6.1	20	70	90	32	56	3.7
23	5.2	6.7	5.4	5.1	5.8	6.2	28	86	94	28	56	3.7
24	5.2	7.5	5.4	5.1	5.8	6.4	27	85	95	19	56	3.7
25	5.6	7.4	5.7	5.1	5.7	6.6	28	85	95	17	55	3.7
26	7.1	7.3	5.6	5.4	5.6	6.2	28	84	94	18	53	3.7
27	6.8	7.0	5.6	5.8	5.4	5.4	22	87	86	18	51	3.7
28	6.4	8.3	5.4	5.9	5.6	5.6	21	87	68	18	44	3.7
29	6.3	7.7	5.8	5.9	-----	5.4	22	87	54	18	43	3.7
30	5.8	6.3	5.6	5.5	-----	6.4	22	87	59	18	44	3.7
31	6.1	-----	6.7	5.3	-----	6.7	-----	87	-----	18	40	-----
TOTAL	174.7	183.1	188.1	182.9	158.1	181.6	405.4	1,351.6	2,256	1,532	1,100	403.5
MEAN	5.64	6.10	6.07	5.90	5.65	5.86	13.5	43.6	75.2	49.4	35.5	13.5
MAX	7.1	8.3	8.7	7.5	6.0	6.7	28	87	95	86	56	35
MIN	4.8	5.0	3.7	5.1	5.2	5.2	6.1	6.9	53	17	18	3.7
AC-FT	347	363	373	363	314	360	804	2,680	4,470	3,040	2,180	800
CAL YR 1973	TOTAL 16,464.53 MEAN 45.1 MAX 286 MIN .40 AC-FT 32,660											
WTR YR 1974	TOTAL 8,117.00 MEAN 22.2 MAX 95 MIN 3.7 AC-FT 16,100											

NOTE:--No gage-height record Jan. 3 to Mar. 19.

SEVIER LAKE BASIN

241

10180000 Sevier River near Circleville, Utah

LOCATION.--Lat 38°06'15" long 112°20'08", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.20, T.31 S., R.4 W., Garfield County, on left bank 2 miles (3 km) upstream from Pine Creek and 6 miles (10 km) southwest of Circleville.

DRAINAGE AREA.--950 mi² (2,460 km²), approximately.

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year.
Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m) from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft (91 m) upstream at different datum. Apr. 23, 1914 to Sept. 30, 1927, and Nov. 21, 1949, to Aug. 6, 1954, water-stage recorder at site 300 ft (91 m) upstream at datum 0.23 ft (0.070 m) higher.

AVERAGE DISCHARGE.--34 years (1914-22, 1923-24, 1949-74), 143 ft³/s (4,050 m³/s), 103,600 acre-ft/yr (128 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 408 ft³/s (11.6 m³/s) July 23 (gage height, 2.99 ft or 0.911 m); minimum, 28 ft³/s (0.79 m³/s) July 12-15.

Period of record: Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 26, 1971 (gage height, 7.06 ft or 2.152 m, from high-water mark), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 18 ft³/s (0.51 m³/s) June 30, July 1, 5, 1960, June 23, 1961.

Flood of March 1938 may have exceeded that of Dec. 26, 1971.

REMARKS.--Records good. Many diversions above and below station.

REVISIONS(WATER YEARS).--WSP 1180: 1922 (M). WSP 1314: 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	146	193	135	139	167	129	47	35	30	46	41
2	145	146	172	116	135	331	134	46	35	30	44	39
3	147	148	181	116	135	254	137	45	34	29	49	38
4	130	143	178	135	133	188	137	43	39	28	49	39
5	122	141	173	152	131	164	140	42	40	28	54	38
6	136	143	176	179	125	159	140	46	49	28	44	51
7	123	143	172	180	120	168	137	52	48	28	48	50
8	121	142	167	152	120	163	132	57	46	28	45	49
9	128	145	166	132	120	157	128	65	44	28	45	50
10	146	136	167	119	120	155	127	90	42	28	44	51
11	155	136	169	135	120	157	128	103	40	28	42	49
12	159	135	170	146	120	158	131	118	39	28	41	49
13	164	133	173	148	120	161	129	124	38	28	41	49
14	166	131	170	147	120	159	127	138	37	28	40	49
15	165	153	166	148	125	159	125	117	36	40	37	72
16	165	159	167	151	136	160	123	113	35	53	38	64
17	162	163	167	153	139	161	121	93	34	68	40	60
18	166	168	161	153	132	157	118	75	33	50	40	56
19	157	155	159	151	134	156	116	70	32	49	38	50
20	159	155	161	151	136	152	116	66	31	71	37	50
21	158	155	160	136	136	147	116	54	31	61	36	48
22	158	155	159	135	129	141	114	51	30	50	35	46
23	160	155	156	134	125	135	98	50	31	184	35	44
24	164	155	151	134	120	131	94	49	31	95	36	43
25	167	155	151	140	120	130	90	47	34	71	42	42
26	163	155	151	145	119	129	85	45	35	61	50	43
27	164	150	159	132	126	128	72	43	35	57	50	48
28	158	170	162	131	132	126	54	41	34	51	52	46
29	155	183	167	136	-----	125	50	40	32	44	48	44
30	153	188	147	137	-----	125	49	38	31	46	46	43
31	151	-----	149	141	-----	126	-----	36	-----	48	43	-----
TOTAL	4,713	4,542	5,120	4,400	3,567	4,929	3,397	2,044	1,091	1,496	1,335	1,441
MEAN	152	151	165	142	127	159	113	65.9	36.4	48.3	43.1	48.0
MAX	167	188	193	180	139	331	140	138	49	184	54	72
MIN	121	131	147	116	119	125	49	36	30	28	35	38
AC-FT	9,350	9,010	10,160	8,730	7,080	9,780	6,740	4,050	2,160	2,970	2,650	2,860

CAL YR 1973 TOTAL 79,780 MEAN 219 MAX 1,140 MIN 52 AC-FT 158,200
WTR YR 1974 TOTAL 38,075 MEAN 104 MAX 331 MIN 28 AC-FT 75,520

SEVIER LAKE BASIN

10183500 Sevier River near Kingston, Utah

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¼NE¼NW¼ sec.16, T.30 S., R.3 W., Piute County, on left bank 1,000 ft (305 m) upstream from bridge on State Highway 22, 1 mile (2 km) west of Kingston, and 2 miles (3 km) upstream from East Fork.

DRAINAGE AREA.--1,110 mi² (2,870 km²), approximately.

PERIOD OF RECORD.--June 1914 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,823 m) from river-profile map. Prior to Sept. 20, 1918, at site 1 mile (2 km) downstream at different datum.

AVERAGE DISCHARGE.--60 years, 126 ft³/s (3.568 m³/s), 91,290 acre-ft/yr (113 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 454 ft³/s (12.9 m³/s) Mar. 3 (gage height, 2.23 ft or 0.680 m); minimum, 5.4 ft³/s (0.153 m³/s) June 19 and 20.

Period of record: Maximum discharge, about 3,000 ft³/s (850 m³/s) (including estimated flow of 360 ft³/s (10.2 m³/s) in overflow channel bypassing station). Mar. 4, 1938 (gage height, 5.20 ft or 1.585 m), from rating curve extended above 600 ft³/s (17.0 m³/s); minimum, 0.9 ft³/s (0.025 m³/s) July 26, 1963.

REMARKS.--Records good. Many diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	164	213	176	173	183	137	17	7.3	9.0	9.2	8.6
2	88	167	223	132	180	320	152	13	7.3	8.8	8.4	8.6
3	99	164	216	141	183	352	164	12	7.3	8.5	8.4	8.6
4	110	164	209	153	180	261	155	11	7.3	7.3	8.7	8.8
5	112	164	203	162	180	203	158	11	7.5	7.3	8.7	9.0
6	112	164	199	162	180	189	155	8.7	8.0	7.4	8.0	9.1
7	112	161	193	162	176	203	146	8.2	8.5	7.3	8.0	9.2
8	112	158	193	162	164	203	140	8.2	9.1	7.2	8.5	9.1
9	112	155	196	154	164	189	126	8.2	9.2	7.2	9.0	8.6
10	115	155	193	140	167	186	134	8.2	8.5	7.1	9.0	8.6
11	123	152	193	162	176	186	143	8.2	7.0	7.1	8.9	8.6
12	131	155	193	162	176	189	143	9.3	7.1	7.2	8.9	8.6
13	143	152	199	162	176	189	134	12	7.2	7.1	8.8	8.6
14	149	152	206	162	176	189	131	21	6.9	7.7	8.8	8.8
15	152	149	196	160	176	186	128	14	6.8	8.8	8.9	9.5
16	152	149	193	140	176	189	128	9.8	6.5	8.7	8.7	9.6
17	152	146	193	170	176	189	115	8.7	6.4	9.0	8.5	11
18	152	155	196	189	176	183	110	8.2	6.2	9.8	8.3	10
19	152	170	189	199	173	180	99	8.7	5.9	10	8.0	10
20	155	173	183	196	173	173	85	9.3	5.7	9.3	7.4	10
21	155	176	176	189	173	164	72	8.7	6.7	9.1	7.3	11
22	155	183	180	189	173	158	51	8.6	7.6	9.1	7.4	11
23	155	186	186	183	170	152	38	8.5	8.1	52	7.5	11
24	155	196	180	183	170	143	29	8.2	7.4	16	7.7	11
25	164	199	173	180	170	143	31	8.4	7.1	9.1	8.1	11
26	161	199	174	176	170	140	23	8.2	7.2	8.8	8.1	11
27	161	199	180	176	170	140	24	7.9	7.0	9.0	8.1	11
28	161	203	173	176	176	137	15	7.7	7.7	8.8	8.5	11
29	164	206	189	176	-----	140	14	7.5	9.2	7.7	8.5	11
30	164	209	193	173	-----	137	16	7.5	9.5	8.2	8.5	11
31	164	-----	176	170	-----	134	-----	7.4	-----	9.1	8.8	-----
TOTAL	4,271	5,125	5,959	5,217	4,873	5,730	2,996	303.3	223.2	308.7	259.6	292.9
MEAN	138	171	192	168	174	185	99.9	9.78	7.44	9.96	8.37	9.76
MAX	164	209	223	199	183	352	164	21	9.5	52	9.2	11
MIN	79	146	173	132	164	134	14	7.4	5.7	7.1	7.3	8.6
AC-FT	8,470	10,170	11,820	10,350	9,670	11,370	5,940	602	443	612	515	581

CAL YR 1973 TOTAL 76,813.0 MEAN 210 MAX 1,120 MIN 49 AC-FT 152,400
WTR YR 1974 TOTAL 35,558.7 MEAN 97.4 MAX 352 MIN 5.7 AC-FT 70,530

10183900 East Fork Sevier River near Rubys Inn, Utah

LOCATION.--Lat 37°34'33", long 112°15'54", in NE¼SE¼NW¼ sec.19, T.37 S., R.4 W., Garfield County, Dixie National Forest, on left bank about 100 ft (30 m) upstream from highway bridge, 0.6 mile (1.0 km) downstream from Skunk Creek, 3.6 miles (5.8 km) upstream from Tropic Reservoir dam, 9 miles (14 km) southwest of Rubys Inn, and 10.5 miles (16.9 km) southeast of Hatch.

DRAINAGE AREA.--71 mi² (184 km²), approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft (2,396 m) from river-proville map. Prior to Oct. 10, 1966, on right bank at different datum.

AVERAGE DISCHARGE.--13 years, 14.9 ft³/s (0.422 m³/s), 10,800 acre-ft/yr (13.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 58 ft³/s (1.64 m³/s), Mar. 18 (gage height, 2.20 ft or 0.671 m); minimum daily, 0.16 ft³/s (0.005 m³/s) Dec. 31.

Period of record: Maximum discharge, 274 ft³/s (7.76 m³/s) Dec. 7, 1966 (gage height, 3.79 ft or 1.155 m); no flow for several days in February and March 1964.

REMARKS.--Records good except for winter period, which are poor. No diversions above station.

REVISIONS.--Revised figures of discharge in cubic feet per second for water year 1973, superseding those published in WRD Utah 1973, are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
Sept. 11	11	Sept. 16	9.1	Sept. 21	8.6	Sept. 26	9.6
12	10	17	8.8	22	8.6	27	9.6
13	9.6	18	8.8	23	8.6	28	9.4
14	9.4	19	8.8	24	9.1	29	9.4
15	9.1	20	8.6	25	9.9	30	9.4
Ft ³ /s days		Maximum		Minimum		Mean	
September	279.2	11	8.6	9.31	554		
Water year 1973	9,926.9	225	4.5	27.2	19,690		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	11	7.0	4.6	9.5	12	20	11	6.0	2.9	5.0	3.4
2	9.1	10	7.0	4.4	11	14	19	10	6.2	2.9	7.2	3.4
3	9.2	11	7.0	4.4	11	12	18	9.8	6.6	3.0	8.3	3.5
4	9.4	10	7.0	4.3	9.5	14	19	9.6	5.8	3.4	5.7	3.6
5	9.4	10	7.2	4.5	12	13	20	9.4	5.4	3.2	5.6	7.2
6	9.4	11	7.4	4.8	9.5	14	23	9.2	5.2	3.1	6.4	7.6
7	9.4	11	8.0	5.2	8.8	15	22	9.1	4.9	2.9	6.9	4.9
8	9.4	11	8.5	5.4	8.3	15	20	8.9	4.6	2.9	7.8	5.3
9	10	10	9.4	5.2	7.7	14	19	9.3	4.8	2.9	6.0	4.4
10	11	11	9.4	4.9	7.7	14	18	8.2	4.7	2.8	4.9	4.1
11	10	11	9.4	5.0	7.7	15	17	8.0	4.5	2.8	4.4	3.9
12	11	12	10	5.3	7.4	17	16	7.5	4.4	2.8	4.1	3.7
13	11	12	11	5.6	7.6	15	15	7.2	4.5	3.1	3.9	4.0
14	11	10	8.2	5.3	9.4	17	15	7.2	4.5	3.3	3.7	4.3
15	11	9.4	7.0	5.6	9.7	19	15	6.8	4.4	3.8	3.6	10
16	10	9.0	6.4	6.4	9.8	25	15	6.5	4.2	3.7	3.6	5.9
17	10	9.0	9.1	8.0	8.9	30	15	6.2	4.2	3.6	3.5	5.5
18	10	9.3	9.1	6.7	8.9	36	14	6.1	4.2	3.5	3.5	6.6
19	10	11	7.3	6.2	11	34	14	6.1	3.9	4.3	3.4	5.5
20	10	11	6.4	6.2	11	30	14	7.1	3.7	4.1	3.3	5.1
21	10	9.6	6.4	6.8	8.9	27	13	7.1	3.6	4.0	3.3	5.0
22	10	8.6	7.9	6.0	6.7	27	13	6.9	3.5	6.7	3.4	5.0
23	10	8.6	7.6	6.0	6.5	27	13	6.8	3.4	6.6	3.6	4.9
24	9.9	8.4	7.0	6.4	6.0	28	12	6.7	3.3	5.3	3.8	5.0
25	9.9	8.4	6.4	6.5	6.0	29	12	6.7	3.3	4.7	3.9	5.3
26	10	7.7	5.6	6.6	6.2	28	11	6.3	3.2	4.8	3.9	6.6
27	10	6.2	6.1	6.6	9.0	24	11	6.1	3.1	4.3	3.8	6.0
28	10	6.4	6.8	6.6	10	24	11	5.6	3.0	3.9	3.8	5.2
29	10	6.8	7.8	6.7	-----	25	11	5.3	3.0	3.9	3.9	5.1
30	10	7.0	5.4	6.9	-----	28	11	5.3	3.1	3.9	3.7	5.0
31	11	-----	4.6	7.8	-----	25	-----	5.5	-----	5.0	3.4	-----
TOTAL	310.5	287.4	233.4	180.9	245.7	667	466	231.5	129.2	118.1	141.3	155.0
MEAN	10.0	9.58	7.53	5.84	8.78	21.5	15.5	7.47	4.31	3.81	4.56	5.17
MAX	11	12	11	8.0	12	36	23	11	6.6	6.7	8.3	10
MIN	9.1	6.2	4.6	4.3	6.0	12	11	5.3	3.0	2.8	3.3	3.4
AC-FT	616	570	463	359	487	1,320	924	459	256	234	280	307
CAL YR 1973	TOTAL 9,552.5	MEAN 26.2	MAX 225	MIN 4.6	AC-FT 18,950							
WTR YR 1974	TOTAL 3,166.0	MEAN 8.67	MAX 36	MIN 2.8	AC-FT 6,280							

PEAK DISCHARGE (BASE, 50 CFS).--Mar. 18 (1930) 58 cfs (2.20 ft).

SEVIER LAKE BASIN

10185000 Antimony Creek near Antimony, Utah

LOCATION.--Lat 38°06'05", long 111°52'55", in NW¼ sec.22, T.31 S., R.1 W., Garfield County, on right bank 5 miles (8 km) upstream from mouth and 5 miles (8 km) southeast of Antimony.

DRAINAGE AREA.--97 mi² (251 km²), approximately.

PERIOD OF RECORD.--October 1946 to September 1948, August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (2,134 m) from topographic map. October 1946 to September 1948 at datum 0.89 ft (0.271 m) lower.

AVERAGE DISCHARGE.--19 years, 21.0 ft³/s (0.594 m³/s), 15,210 acre-ft/yr (18.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 42 ft³/s (1.19 m³/s) May 6 (gage height, 1.77 ft or 0.539 m) minimum daily, 16 ft³/s (0.453 m³/s) for several days.

Period of record: Maximum discharge, 669 ft³/s (18.9 m³/s) Aug. 3, 1959 (gage height, 4.52 ft or 1.378 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurements of peak flow; minimum, 8.9 ft³/s (0.25 m³/s) Mar. 20, 1964.

REMARKS.--Records good.

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	17	17	16	17	17	18	17	18	17	18
2	17	17	18	17	16	17	17	20	17	18	17	18
3	17	17	17	17	16	17	17	22	17	18	17	18
4	17	17	18	17	16	17	17	24	17	17	17	18
5	17	17	18	17	16	16	17	25	17	17	17	19
6	17	17	17	17	16	16	17	30	17	17	17	19
7	17	17	17	17	16	16	17	35	18	17	17	18
8	17	17	18	17	16	16	17	30	18	18	17	18
9	17	17	18	17	16	16	17	28	18	18	17	18
10	17	17	18	17	16	16	17	27	18	17	17	18
11	17	17	18	17	16	16	17	25	18	17	17	18
12	17	17	18	17	16	16	17	23	17	17	17	18
13	17	17	18	17	16	16	17	22	18	17	17	18
14	17	17	18	17	16	16	17	20	18	17	17	18
15	17	17	18	17	16	16	17	19	18	18	17	18
16	17	17	18	17	16	16	17	19	18	17	17	18
17	17	17	18	17	16	16	17	19	18	17	17	18
18	17	17	18	17	16	17	17	18	18	17	17	18
19	17	17	17	17	16	17	17	18	18	18	17	18
20	17	17	17	17	16	16	17	18	17	18	17	18
21	17	17	17	17	16	16	17	18	18	18	17	18
22	17	17	17	17	16	16	17	18	18	18	18	18
23	17	17	17	17	16	16	18	18	18	18	18	18
24	17	17	17	17	16	16	18	18	18	18	18	18
25	17	17	17	17	16	16	18	18	18	17	18	18
26	17	17	17	17	16	16	19	18	18	17	18	18
27	17	18	17	17	16	16	19	18	18	17	18	18
28	17	18	17	17	16	17	18	17	18	17	18	18
29	17	17	17	17	-----	17	18	17	18	17	18	18
30	17	18	17	17	-----	17	18	17	18	17	18	18
31	17	-----	17	16	-----	17	-----	17	-----	17	18	-----
TOTAL	527	513	541	526	448	506	520	655	532	539	537	542
MEAN	17.0	17.1	17.5	17.0	16.0	16.3	17.3	21.1	17.7	17.4	17.3	18.1
MAX	17	18	18	17	16	17	19	35	18	18	18	19
MIN	17	17	17	16	16	16	17	17	17	17	17	18
AC-FT	1,050	1,020	1,070	1,040	889	1,000	1,030	1,300	1,060	1,070	1,070	1,080

CAL YR 1973 TOTAL 8,962 MEAN 24.6 MAX 156 MIN 15 AC-FT 17,780
WTR YR 1974 TOTAL 6,386 MEAN 17.5 MAX 35 MIN 16 AC-FT 12,670

PEAK DISCHARGE (BASE, 170 CFS). No peak above base

SEVIER LAKE BASIN

245

10187300 Otter Creek near Koosharem, Utah

LOCATION.--Lat 38°36'40", long 111°48'40", in NW¼ sec.28, T.25 S., R.1 E., Sevier County, on right bank, 1.5 miles (2.4 km) upstream from mouth and 8 miles (13 km) northeast of Koosharem.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

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

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 7,100 ft (2,164 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 12.5 ft³/s (0.354 m³/s), 9,060 acre-ft/yr (11.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 85 ft³/s (2.40 m³/s) May 9 (gage height, 2.23 ft or 0.680 m); minimum, 6.6 ft³/s (0.187 m³/s) Feb. 8.

Period of record: Maximum discharge, 117 ft³/s (3.31 m³/s) May 18, 1973 (gage height, 2.61 ft or 0.796 m); minimum, 3.7 ft³/s (0.105 m³/s) sometime during period Nov. 7 to Feb. 26, 1969, period of no gage-height record.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	9.7	9.3	9.0	9.9	11	32	28	15	13	11
2	11	10	9.9	9.0	8.9	9.8	9.9	36	26	15	13	10
3	11	10	9.8	9.0	8.7	9.4	10	40	25	15	13	10
4	11	9.9	9.7	9.0	8.8	9.3	10	39	24	14	12	11
5	11	9.8	9.6	9.0	9.0	9.4	10	41	23	14	12	11
6	11	9.9	9.5	9.0	8.7	9.7	10	47	23	14	12	11
7	11	9.8	9.5	9.0	8.6	9.7	9.7	53	22	14	12	10
8	11	9.7	9.5	9.0	8.3	9.7	10	64	23	14	12	10
9	11	9.6	9.4	9.0	8.6	9.7	11	66	22	14	12	10
10	11	9.7	9.4	9.0	8.6	9.7	10	67	21	14	12	10
11	11	9.7	9.3	9.0	8.6	9.8	9.7	63	20	14	12	10
12	11	9.7	9.4	9.0	8.6	9.9	10	63	20	14	12	10
13	12	9.7	9.5	9.0	8.6	10	10	58	21	14	11	11
14	11	9.3	9.5	9.0	8.6	9.9	11	50	21	14	11	11
15	11	9.3	9.1	9.0	8.6	10	11	52	21	15	11	11
16	11	9.8	9.3	9.0	8.7	11	12	56	20	14	11	11
17	11	9.6	9.4	9.2	8.6	11	13	51	19	15	11	11
18	11	9.7	9.7	9.3	8.6	11	14	44	19	15	11	10
19	11	9.1	9.3	9.3	8.7	11	13	39	18	15	11	10
20	10	9.2	9.2	9.3	8.6	10	12	34	17	15	11	10
21	10	11	9.3	9.3	8.7	10	12	32	16	15	11	10
22	10	9.9	9.3	9.3	9.2	10	14	33	16	16	11	10
23	10	10	9.3	9.4	9.0	10	19	31	16	15	11	10
24	10	10	9.3	9.2	10	10	22	32	16	14	11	10
25	10	10	9.3	9.1	14	11	26	34	16	13	11	10
26	10	10	9.3	9.3	13	11	24	38	16	13	11	10
27	10	9.6	9.4	9.0	11	11	19	39	15	13	11	10
28	10	9.6	9.3	9.0	10	11	20	36	15	13	11	10
29	10	9.7	9.5	8.9	-----	11	22	33	15	13	11	10
30	10	9.8	9.2	8.9	-----	11	27	31	15	13	10	10
31	10	-----	9.2	8.8	-----	11	-----	29	-----	13	10	-----
TOTAL	330	293.1	292.1	281.6	258.3	316.9	422.3	1,363	589	439	354	309
MEAN	10.6	9.77	9.42	9.08	9.23	10.2	14.1	44.0	19.6	14.2	11.4	10.3
MAX	12	11	9.9	9.4	14	11	27	67	28	16	13	11
MIN	10	9.1	9.1	8.8	8.3	9.3	9.7	29	15	13	10	10
AC-FT	655	581	579	559	512	629	838	2,700	1,170	871	702	613

CAL YR 1973 TOTAL 5,557.6 MEAN 15.2 MAX 91 MIN 7.4 AC-FT 11,020

WTR YR 1974 TOTAL 5,248.3 MEAN 14.4 MAX 67 MIN 8.3 AC-FT 10,410

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-25	2100	1.96	39	5-26	2300	2.03	48
5-9	2000	2.23	85	7-22	1900	1.84	28

SEVIER LAKE BASIN

10187500 Otter Creek above Reservoir near Antimony, Utah

LOCATION.—Lat 38°14'59", long 111°57'55", in SW¼SW¼ sec.25, T.29 S., R.2 W., in Piute County, on right bank 40 ft (12 m) upstream from county road bridge, 200 ft (61 m) upstream from Otter Creek Reservoir, 0.5 mile (0.8 km) east of Angle, and 10 miles (16 km) north of Antimony.

DRAINAGE AREA.--330 mi² (855 km²), approximately.

PERIOD OF RECORD.--January to August 1915, October 1915 to June 1920, April 1961 to September 1964, July 1971 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m) from topographic map. January to August 1915, October 1915 to June 1920, staff gage at same site at different datum. April 1961 to September 1964, water-stage recorder at same site at different datum.

AVERAGE DISCHARGE.—10 years (1915-19, 1961-64, 1972-74) 12.8 ft³/s (0.362 m³/s), 9,270 acre-ft/yr (11.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 138 ft³/s (3.91 m³/s) July 20 (gage height, 4.27 ft or 1.301 m): minimum daily discharge, 0.05 ft³/s (0.001 m³/s) July 29, Sept. 6-8, 10-13.

Period of record: Maximum discharge, 138 ft³/s (3.91 m³/s) July 20, 1974 (gage height, 4.27 ft or 1.301 m); no flow for periods in several years.

REMARKS:--Records good except those below 0.2 ft³/s (0.006 m³/s), which are fair. Flow affected by storage in Koosharem Reservoir, capacity 3,860 acre-ft (5.76 hm³). Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.5	23	13	20	40	40	.88	.24	.18	.06	.08
2	.51	5.0	26	12	21	62	47	.78	.24	.16	.07	.09
3	.64	10	20	11	22	69	55	.73	.20	.16	.07	.08
4	.56	10	18	9.4	22	67	55	.68	.18	.16	.06	.08
5	.56	9.9	16	11	24	63	51	.83	.20	.18	.06	.24
6	.64	11	16	9.9	20	55	49	.88	.20	.18	.06	.05
7	.59	11	17	12	17	63	53	2.4	.20	.18	.06	.05
8	.59	11	18	12	15	69	52	1.1	.18	.18	.07	.05
9	.64	11	18	14	18	72	44	.83	.18	.16	.10	.06
10	.57	12	18	13	19	62	33	.78	.20	.13	.10	.05
11	.54	12	20	11	19	63	33	.68	.20	.15	.10	.05
12	.59	13	21	12	20	69	34	.73	.22	.15	.08	.05
13	.68	7.2	22	15	24	83	33	.83	.18	.13	.08	.05
14	.68	2.5	24	16	22	89	28	.78	.20	.15	.08	.06
15	.68	8.0	20	15	25	91	28	.73	.20	.13	.08	.06
16	.73	18	22	16	26	92	23	.73	.20	.13	.08	.07
17	.83	16	24	19	27	94	21	.68	.20	.13	.08	.07
18	.83	16	24	20	23	88	12	.59	.20	.12	.08	.08
19	.93	17	22	22	22	73	3.0	.55	.26	.13	.08	.08
20	.99	15	16	22	24	63	2.0	.59	.26	11	.08	.06
21	1.1	16	17	23	15	53	1.6	.64	.22	.12	.07	.06
22	1.1	15	18	11	18	45	1.3	.51	.20	.07	.07	.06
23	1.1	14	21	14	22	42	1.5	.43	.18	.07	.07	.07
24	1.2	14	18	16	24	41	1.3	.47	.18	.06	.08	.08
25	1.2	14	15	17	25	39	2.0	.51	.18	.06	.10	.08
26	1.2	15	12	22	27	40	1.4	.37	.18	.06	.08	.08
27	1.2	15	11	19	28	41	1.4	.31	.18	.06	.07	.08
28	1.3	15	12	17	28	42	1.3	.31	.18	.06	.10	.08
29	1.5	16	17	17	-----	42	1.1	.31	.18	.05	.10	.08
30	1.5	18	19	17	-----	40	.93	.40	.18	.07	.10	.08
31	1.5	-----	15	16	-----	38	-----	.28	-----	.07	.08	-----
TOTAL	27.27	369.1	580	474.3	617	1,890	709.83	21.32	6.00	14.64	2.45	2.21
MEAN	.88	12.3	18.7	15.3	22.0	61.0	23.7	.69	.20	.47	.079	.074
MAX	1.5	18	26	23	28	94	55	2.4	.26	11	.10	.24
MIN	.51	1.5	11	9.4	15	38	.93	.28	.18	.05	.06	.05
AC=FT	54	732	1,150	941	1,220	3,750	1,410	42	12	29	4.9	4.4
CAL YR 1973	TOTAL 5,511.07		MEAN 15.1	MAX 68	MIN .27	AC=FT 10,930						
WTR YR 1974	TOTAL 4,714.12		MEAN 12.9	MAX 94	MIN .05	AC=FT 9,350						

SEVIER LAKE BASIN

247

10188000 Otter Creek Reservoir near Antimony, Utah

LOCATION.--Lat 38°10'15", long 112°01'25", in NW¼ sec.28, T.30 S., R. 2 W., Piute County, near spillway on right side of dam on Otter Creek, 3.5 miles (5.6 km) northwest of Antimony and 9.5 miles (15.3 km) east of Kingston.

DRAINAGE AREA.--380 sq mi (984 km²), approximately.

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

GAGE.--Staff gage usually read on 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft (1,935 m) by barometer.

EXTREMES.--Current year: Maximum contents observed, 53,930 acre-ft (66.5 hm³) May 1 (gage height 36.5 ft or 11.13 m); minimum observed, 18,120 acre-ft (22.3 hm³) Sept. 30 (gage height, 19.1 ft or 5.82 m).

Period of record: Maximum contents observed, 56,500 acre-ft (69.7 hm³) May 20, 1973 (gage height, 37.5 ft or 11.43 m); minimum observed, 200 acre-ft (247,000 m³) Sept. 10, 1956 (gage height, 1.0 ft or 0.305 m).

REMARKS.--Reservoir was formed in 1898 by a 15-ft (4.6 m) earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft (13.7 m) in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft (65.0 hm³) between gage height zero (bottom of outlet gage) and 36.0 ft (11.0 m) (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft (11.3 m), capacity, 55,200 acre-ft (68.1 hm³). Spillway crest is at gage height 33.5 ft (10.2 m). Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Gage-height record furnished by Otter Creek Reservoir Company. Revised capacity table, based on Soil Conservation Service Survey in 1960, used since Oct. 1, 1962.

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								53,930				
2												
3												
4												
5												
6												
7												
8												
9												
10	37,050	37,700	41,200	44,410	48,710		51,420	52,160	47,250	35,360	28,400	18,760
11												
12												
13												
14												
15												
16												
17												
18												
19												
20	36,620	38,550	42,340	45,570	48,220	48,950	53,420	50,420	40,980	32,890	25,430	18,440
21												
22												
23												
24												
25												
26												
27												
28					48,710							
29					-----							
30	37,050	39,430	43,480		-----		53,880	48,710	40,310			18,120
31	a37,110	-----	a43,560	47,250	-----	50,170	-----	a48,580	-----	30,320	21,240	-----
(†)	-----	30.4	-----	33.8	34.4	35.0	-----	-----	30.8	26.0	21.0	19.1
(‡)	-1,230	+2,320	+4,130	+3,690	+1,460	+1,460	+3,710	-5,300	-8,270	-9,990	-9,080	-3,120
CAL YR 1973. ‡ +22,150											
WTR YR 1974. ‡ -20,220											

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

‡ Change in contents, in acre-feet.

a No gage-height reading; contents interpolated.

SEVIER LAKE BASIN

249

10191000 Piute Reservoir near Marysville, Utah

LOCATION.--Lat 38°19'26", long 112°11'26", in NW¼NE¼NW¼ sec.3, T.29 S., R.3 W., Piute County at Piute Dam on Sevier River, 9 miles (14.5 km) south of Marysville.

DRAINAGE AREA.--2,400 sq mi (6,220 km²), approximately.

PERIOD OF RECORD.--March 1914 to current year.

GAGE.--Staff gage usually read once daily. Datum of gage is 5,900.8 ft (1,798.56 m) above mean sea level (levels by Office of State Engineer).

EXTREMES.--Current year: Maximum contents observed, 71,830 acre-ft (88.6 hm³) Apr. 26 (gage height, 76.0 ft or 23.16 m); minimum observed, 3,650 acre-ft (4.50 hm³) Sept. 3, 4 (gage height, 31.2 ft or 9.51 m).

Period of record: Maximum contents, 82,300 acre-ft (102 hm³) May 28, 1922 (gage height, 76.4 ft or 23.29 m, original capacity table); no contents at times in several years.

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft (88.6 hm³) between gage heights 10 ft (3.05 m) (approximate bottom of reservoir) and 76 ft (23.16 m) (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft (21.40 m). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

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

31	3,535	60	39,150
35	6,240	65	48,170
40	10,980	70	58,030
45	16,760	75	69,260
50	23,380	77	74,400
55	30,870		

CONTENTS, IN ACRE-Feet, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,620	27,640	36,590	48,550	56,190	53,570	65,690	69,260	47,610	28,550	18,530	4,000
2	21,170	27,640	36,930	48,930	56,190	53,770	65,690	68,540	46,680		18,010	3,770
3	21,710	27,640	37,270	49,310	56,190	54,170	65,920	67,810	45,940		17,510	3,650
4	22,120	27,790	37,610	49,690	56,190	54,370	66,150	67,330	45,580		17,010	3,650
5	22,540	27,940	37,950	49,880	56,190	54,370	66,620	66,620	44,840		16,520	3,770
6	22,960	28,090	38,290	50,070	56,190	54,970	66,850	65,230	44,120		16,150	3,890
7	23,390	28,240	38,640	50,260	55,980	55,780	67,330	63,860	43,580		15,670	
8	23,670	28,400	38,980	50,450	55,780	56,800	67,570	62,740	43,040		15,190	
9	23,960	28,550	39,330	50,650	55,580	58,450	67,810	61,860	42,680		14,600	4,440
10	24,250	28,700	39,680	50,840	55,380	58,880	68,060	61,000	42,320	25,550	14,140	
11	24,530	28,850	40,200	51,030	55,380	59,300	68,300	60,140	41,960	24,820	13,680	
12	24,820	29,010	40,550	51,230	55,180	59,720	68,540	59,300	41,610	24,100	13,220	4,440
13	24,970	29,160	40,900	51,610	55,180	59,930	68,780	58,450	41,250	23,390	13,100	4,510
14	25,260	29,160	41,250	51,810	54,970	60,140	69,020	57,830	40,720	22,820	12,650	4,570
15	25,410	29,310	41,610	52,000	54,970	60,140	69,260	57,210	40,200	22,260	12,190	4,630
16	25,550	29,470	42,140	52,200	54,770	60,350	69,520	56,390	39,850	21,840	11,640	4,700
17	25,550	29,620	42,500	52,590	54,770	60,570	69,770	55,580	39,500	21,440	11,200	4,760
18	25,700	29,780	42,860	52,980	54,570	61,000	69,770	54,970	39,150	21,030	10,770	4,760
19	25,850	30,090	43,400	53,380	54,570	61,210	70,030	54,370	38,640	20,620	10,340	4,830
20	25,990	30,720	43,760	53,770	54,370	61,430	70,290	53,770	37,950	20,620	9,920	4,900
21	26,140	31,190	44,120	54,170	54,370	61,860	70,540	53,180	37,100	20,760	9,510	4,900
22	26,440	31,670	44,660	54,570	54,170	62,760	70,540	52,590	36,250	20,900	8,910	4,900
23	26,740	32,140	45,030	54,970	54,170	63,190	70,800	52,200	35,410	21,030	8,250	4,900
24	27,040	32,630	45,390	55,180	53,970	63,190	71,060	51,610	34,750	20,760	7,600	4,970
25	27,190	33,270	45,940	55,380	53,770	63,630	71,310	51,030	34,090	20,490	6,980	4,970
26	27,190	33,760	46,310	55,580	53,570	63,860	71,830	50,450	33,440	20,230	6,400	4,970
27	27,340	34,250	46,680	55,780	53,570	64,310	71,310	49,880	32,790	19,960	5,930	5,040
28	27,340	34,910	47,060	55,980	53,570	64,530	70,300	49,500	31,990	19,700	5,470	5,120
29	27,490	35,580	47,430	56,190	-----	64,990	70,290	49,120	31,350	19,430	4,970	5,190
30	27,490	36,080	47,800	56,190	-----	65,460	69,770	48,740	30,720	19,170	4,510	5,260
31	27,490	-----	48,170	56,190	-----	65,460	-----	48,170	-----	18,910	4,250	-----
MAX	27,490	36,080	48,170	56,190	56,190	65,460	71,830	69,260	47,610		18,530	
MIN	20,620	27,640	36,590	48,550	53,570	53,570	65,690	48,170	30,720		4,250	
(†)	52.8	58.2	65.0	69.1	67.8	73.4	75.2	65.0	54.9	46.7	32.2	33.7
(‡)	+6,730	+8,590	+12,090	+8,020	-2,620	+11,890	+4,310	-21,600	-17,450	-11,810	-14,660	+1,010
CAL YR 1973.	+17,140											
WTR YR 1974.	-15,500											

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

‡ Change in contents, in acre-feet.

SEVIER LAKE BASIN

10191500 Sevier River below Piute Dam, near Marysville, Utah

LOCATION.—Lat 38°19'55", long 112°11'11", in NW¼NW¼SE¼ sec.34, T.28 S., R.3 W., Piute County, on left bank 0.8 mile (1.3 km) downstream from Piute Dam and 8 miles (13 km) south of Marysville.

DRAINAGE AREA.—2,440 mi² (6,320 km²), approximately.

PERIOD OF RECORD.—May to August 1911, May 1912 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,870 ft (1,789 m) by barometer. Prior to May 4, 1912, nonrecording gage at site 0.5 mile (0.8 km) upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.3 mile (0.5 km) upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft (0.213 m) higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft (0.152 m) higher.

AVERAGE DISCHARGE.—62 years (1912–74), 214 ft³/s (6.061 m³/s), 155,000 acre-ft/yr (191 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 624 ft³/s (17.7 m³/s) June 22 (gage height, 2.96 ft or 0.902 m); minimum daily, 5.1 ft³/s (0.144 m³/s) several days in November.

Period of record: Maximum discharge, 2,600 ft³/s (73.6 m³/s) May 23, 24, 1922; practically no flow at times when reservoir gates were closed.

REMARKS.—Records good. One small diversion between gage and Piute Reservoir. Flow regulated by Piute Reservoir (see station 10191000). Records of chemical analysis for the water year 1974 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	136	67	6.8	188	312	9.5	444	335	594	335	312
2	56	136	70	7.7	188	312	11	440	390	589	327	308
3	56	136	70	8.1	188	320	9.5	418	390	585	359	293
4	54	136	70	8.1	201	343	9.5	402	410	585	351	259
5	49	136	14	8.1	226	49	9.5	431	431	580	435	194
6	49	139	6.8	8.1	226	7.7	9.5	510	402	576	506	191
7	49	139	6.8	8.1	226	6.8	9.5	554	366	576	488	128
8	57	139	6.8	8.1	244	6.4	9.5	602	406	572	390	123
9	108	136	6.8	8.1	296	74	9.5	602	431	572	386	123
10	113	136	6.8	8.1	296	370	9.5	602	255	567	378	111
11	118	36	6.8	8.1	296	370	9.5	532	255	563	378	94
12	131	6.1	6.8	8.1	296	281	11	466	270	558	402	74
13	131	5.7	6.8	8.1	296	14	10	462	331	528	422	48
14	131	5.4	6.8	8.1	296	10	11	510	363	523	475	47
15	131	5.1	6.8	8.1	296	10	9.5	572	312	506	470	45
16	133	5.1	6.8	8.1	296	11	9.0	580	251	466	470	45
17	136	5.1	6.4	8.1	300	12	7.7	448	248	457	466	19
18	136	5.1	6.4	8.1	300	14	7.7	431	266	418	462	6.8
19	136	5.1	6.4	8.1	300	14	8.1	351	351	293	462	6.1
20	136	5.1	6.4	7.7	300	14	8.1	378	394	208	457	5.7
21	136	5.1	6.4	7.7	300	13	8.6	440	470	285	453	57
22	133	5.1	6.1	7.7	300	12	9.0	444	532	289	448	172
23	133	5.1	6.1	7.7	300	12	10	440	620	285	448	165
24	136	5.1	6.1	28	300	12	9.5	370	616	248	440	150
25	136	5.1	6.1	67	304	11	9.5	339	611	226	435	145
26	136	5.1	6.1	67	312	11	39	312	611	212	426	101
27	139	5.1	6.1	67	312	11	85	386	607	175	414	99
28	139	5.1	6.4	83	312	10	101	470	602	168	382	99
29	139	5.1	6.4	139	-----	9.5	304	470	598	226	355	99
30	139	20	6.4	159	-----	9.5	374	293	594	274	324	99
31	139	-----	6.8	188	-----	9.5	-----	240	-----	382	320	-----
TOTAL	3,491	1,518.7	460.4	981.0	7,695	2,671.4	1,137.7	13,939	12,713	13,086	12,864	3,618.6
MEAN	113	50.6	14.9	31.6	275	86.2	37.9	450	424	422	415	121
MAX	139	139	70	188	312	370	374	602	620	594	506	312
MIN	49	5.1	6.1	6.8	188	6.4	7.7	240	248	168	320	5.7
AC=FT	6,920	3,010	913	1,950	15,260	5,300	2,260	27,650	25,230	25,960	25,520	7,180
CAL YR 1973	TOTAL	101,173.6	MEAN	277	MAX	1,470	MIN	5.1	AC=FT	200,700		
WTR YR 1974	TOTAL	74,180.8	MEAN	203	MAX	620	MIN	5.1	AC=FT	147,100		

10194000 Sevier River above Clear Creek, near Sevier, Utah

LOCATION.—Lat 38°34'20", long 112°15'27", in NE¼NW¼NE¼ sec.5, T.26 S., R.4 E., Sevier County, on right bank 0.6 mile (1.0 km) upstream from bridge on U.S. Highway 89, 0.7 mile (1.1 km) upstream from Clear Creek, and 1 mile (2 km) south of Sevier.

DRAINAGE AREA.—2,700 mi² (6,990 km²), approximately.

PERIOD OF RECORD.—May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

GAGE.—Water-stage recorder. Altitude of gage is 5,560 ft (1,695 m) by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mile (1.3 km) downstream at different datums (datum lowered 1.0 ft or 3.05 m, Mar. 31, 1913).

AVERAGE DISCHARGE.—34 years (1912-16, 1939-55, 1960-74), 238 ft³/s (6.740 m³/s), 172,400 acre-ft/yr (213 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 662 ft³/s (18.7 m³/s) May 16 (gage height, 2.73 ft or 0.832 m); minimum, 13 ft³/s (0.37 m³/s) Dec. 25.

Period of record (not including flow of Clear Creek): Maximum discharge, 2,270 ft³/s (64.3 m³/s) May 16, 1941 (gage height, 4.83 ft or 1.472 m); minimum, 2.3 ft³/s (0.065 m³/s) Dec. 13, 1964.

1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s (79.3 m³/s) during last week of May 1922, computed on basis of records for station near Marysville; minimum 10 ft³/s (0.28 m³/s) Nov. 27, 1919.

REMARKS.—Records good except those for winter months and period of no gage-height record, which are fair. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	173	37	26	185	323	28	398	364	603	382	326
2	128	173	59	25	196	329	29	429	455	597	343	323
3	100	173	60	25	196	326	33	435	456	592	347	321
4	90	176	68	25	189	334	31	407	452	591	359	287
5	86	177	76	30	212	303	30	407	497	585	358	268
6	82	192	48	30	220	64	28	454	518	581	478	249
7	76	182	32	30	222	44	27	533	462	577	500	234
8	71	179	26	30	220	38	27	571	435	573	455	164
9	77	176	26	30	277	36	26	613	487	572	406	132
10	102	175	26	30	287	139	26	640	418	568	389	131
11	160	153	27	26	290	349	26	647	316	566	385	120
12	160	60	29	26	295	357	27	549	315	564	395	100
13	170	41	29	26	294	177	26	523	350	552	407	88
14	170	35	29	26	295	47	26	512	422	533	451	63
15	170	33	27	26	295	38	26	574	425	530	477	57
16	170	32	28	27	297	35	26	635	343	494	477	54
17	170	31	27	29	296	34	25	600	314	476	475	53
18	172	31	28	30	298	33	25	481	301	478	473	50
19	172	31	27	30	297	33	25	454	346	372	469	43
20	172	31	27	31	295	32	25	401	387	284	464	36
21	172	30	29	31	299	31	25	426	461	253	463	31
22	172	31	31	27	295	31	25	465	491	305	461	78
23	172	30	27	30	296	31	25	462	588	303	460	171
24	172	30	27	40	295	30	25	436	628	283	457	160
25	172	30	27	44	296	30	26	394	629	259	450	153
26	172	30	25	100	308	29	27	360	622	228	444	135
27	172	29	26	119	313	28	31	361	619	207	435	104
28	172	29	28	87	316	27	47	503	614	170	413	103
29	173	29	31	114	-----	27	67	570	609	159	391	105
30	173	29	30	178	-----	27	278	510	606	199	345	104
31	173	-----	29	187	-----	27	-----	361	-----	301	331	-----
TOTAL	4,543	2,551	1,046	1,515	7,574	3,389	1,118	15,111	13,930	13,355	13,140	4,243
MEAN	147	85.0	33.7	48.9	271	109	37.3	487	464	431	424	141
MAX	173	192	76	187	316	357	278	647	629	603	500	326
MIN	71	29	25	25	185	27	25	360	301	159	331	31
AC=FT	9,010	5,060	2,070	3,010	15,020	6,720	2,220	29,970	27,630	26,490	26,060	8,420

CAL YR 1973 TOTAL 112,465 MEAN 308 MAX 1,590 MIN 23 AC=FT 223,100
WTR YR 1974 TOTAL 81,515 MEAN 223 MAX 647 MIN 25 AC=FT 161,700

NOTE.—No gage-height record Oct. 1 to Nov. 1.

10194200 Clear Creek above diversions, near Sevier, Utah

LOCATION.—Lat 38°34'45", long 112°17'22", in NW¼NW¼SW¼ sec.31, T.25 S., R.4 W., Sevier County, on left bank at south side of State Highway 13, 1.8 miles (2.9 km) west of Sevier, 2.3 miles (3.7 km) upstream from mouth, and 17 miles (27 km) southwest of Richfield.

DRAINAGE AREA.—164 mi² (425 km²).

PERIOD OF RECORD.—August 1957 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,680 ft (1,731 m) from topographic map.

AVERAGE DISCHARGE.—17 years, 31.4 ft³/s (0.889 m³/s), 22,750 acre-ft/yr (28.1 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) May 10 (gage height, 2.43 ft or 0.741 m); minimum daily, 5.2 ft³/s (0.147 m³/s) Jan. 4.

Period of record: Maximum discharge, 769 ft³/s (21.8 m³/s) Apr. 29, 1973 (gage height, 4.41 ft or 1.344 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 9, 1959.

REMARKS.—Records good, except those for winter period and April 1-30, which are fair. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft (1.23 hm³), at headwaters.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.2	13	8.8	14	25	11	116	57	14	14	8.4
2	8.0	9.3	12	7.5	10	30	10	135	54	15	14	8.5
3	8.0	12	9.2	6.4	9.6	27	11	159	49	15	13	8.8
4	8.2	13	9.7	5.2	12	24	9.8	170	45	15	13	8.9
5	8.3	12	8.4	5.4	14	22	9.8	170	45	15	13	9.1
6	8.3	11	7.9	6.8	13	27	19	168	47	15	13	8.8
7	8.3	9.7	9.6	7.6	12	28	20	168	45	15	13	8.9
8	9.5	8.9	10	9.3	11	27	24	185	42	15	13	8.9
9	12	8.6	9.6	7.2	11	26	31	216	37	15	13	8.8
10	12	8.1	9.1	6.4	12	26	13	292	34	15	12	8.7
11	12	7.9	11	6.2	12	26	13	281	34	15	12	8.8
12	12	7.3	12	8.2	12	30	18	294	35	16	12	8.9
13	12	6.9	13	8.2	14	35	9.8	286	34	16	11	8.9
14	12	6.6	12	7.6	14	39	14	213	35	16	10	9.1
15	12	6.2	11	8.4	15	45	45	146	32	17	9.9	9.2
16	11	6.1	14	9.8	15	54	41	142	30	18	9.8	8.8
17	9.8	5.9	16	14	16	60	49	134	28	19	9.5	8.7
18	9.6	6.2	15	12	15	52	53	108	26	21	9.3	8.6
19	9.4	7.6	9.5	9.8	15	38	45	81	25	20	9.2	8.6
20	9.2	7.5	7.3	8.0	14	39	36	59	24	19	9.3	8.6
21	8.8	8.8	9.1	7.0	13	32	27	49	23	18	9.4	8.6
22	8.6	6.6	15	6.0	16	31	27	41	22	18	9.0	8.6
23	8.2	7.7	15	8.0	14	32	38	36	20	17	8.4	8.5
24	7.9	9.9	13	7.3	12	35	47	34	20	17	8.4	8.4
25	8.5	12	12	6.8	13	30	54	34	17	16	8.5	8.4
26	8.5	11	6.6	9.0	17	34	65	38	17	16	8.4	8.4
27	8.4	9.0	11	9.4	19	34	63	48	15	15	8.3	8.4
28	8.6	8.1	20	9.8	20	32	72	62	15	15	8.2	8.6
29	7.9	9.4	19	10	-----	31	80	71	15	15	8.1	8.6
30	7.5	13	18	8.6	-----	32	116	67	15	14	8.1	8.6
31	7.5	-----	8.2	9.6	-----	24	-----	60	-----	14	8.3	-----
TOTAL	290.3	263.5	366.2	254.3	384.6	1,027	1,071.4	4,064	937	501	326.1	261.1
MEAN	9.36	8.78	11.8	8.20	13.7	33.1	35.7	131	31.2	16.2	10.5	8.70
MAX	12	13	20	14	20	60	116	294	57	21	14	9.2
MIN	7.5	5.9	6.6	5.2	9.6	22	9.8	34	15	14	8.1	8.4
AC-FT	576	523	726	504	763	2,040	2,130	8,060	1,860	994	647	518
CAL YR 1973	TOTAL	27,062.2	MEAN	74.2	MAX	602	MIN	5.9	AC-FT	53,720		
WTR YR 1974	TOTAL	9,746.5	MEAN	26.7	MAX	294	MIN	5.2	AC-FT	19,330		

SEVIER LAKE BASIN

253

10204200 Mill Creek near Glenwood, Utah

LOCATION.--Lat 38°45'01", long 111°58'35", in NW¼NW¼NW¼ sec.1, T.24 S., R.2 W., Sevier County, on left bank 30 ft (9 m) downstream from outlet of Mill Canyon flood retention reservoir, 1.5 miles (2.4 km) southeast of Glenwood, and 6 miles (9.7 km) east of Richfield.

DRAINAGE AREA.--18.9 mi² (49.0 km²), revised.

PERIOD OF RECORD.--May 1963 to September 1974 (Discontinued).

GAGE.--Water-stage recorder and concrete Parshall flume. Altitude of gage is 5,520 ft (1,682.5 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 0.011 ft³/s (0.0003 m³/s), 8.0 acre-ft/yr (9,864 m³/yr).

EXTREMES AND DAILY DISCHARGE RECORD.--Current year: Maximum discharge, 2.4 ft³/s (0.068 m³/s) Mar 1 (gage height, 0.24 ft or 0.073 m); no flow for most of year.

Period of record: Maximum discharge, 57 ft³/s (1.61 m³/s) Aug. 28, 1971 (gage height, 1.72 ft or 0.524 m); no flow most of time.

REMARKS.--Records excellent except those for Mar. 1-4, which are fair. Station established to conduct a trap-efficiency study in Soil Conservation Service debris basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						.56					.04	
2						1.2					.33	
3						.58					.19	
4						.13					.19	
5						0					.13	
6						0					.13	
7						0					.08	
8						0					.08	
9						0					.04	
10						0					.04	
11						0					.01	
12						0					0	
13						0					0	
14						0					0	
15						0					0	
16						0					0	
17						0					0	
18						0					0	
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	-----		-----		0	-----
TOTAL	0	0	0	0	0	2.47	0	0	0	0	1.26	0
MEAN	0	0	0	0	0	.080	0	0	0	0	.041	0
MAX	0	0	0	0	0	1.2	0	0	0	0	.33	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	4.9	0	0	0	0	2.5	0
CAL YR 1973	TOTAL	24.18	MEAN .066	MAX 10	MIN 0	AC-FT 48						
WTR YR 1974	TOTAL	3.73	MEAN .010	MAX 1.2	MIN 0	AC-FT 7.4						

SEVIER LAKE BASIN

10205000 Sevier River near Sigurd, Utah

LOCATION.--Lat 38°52'24", long 111°57'14", in SW¼NE¼SW¼ sec.19, T.22 S., R.1 W., Sevier County, on left bank 200 ft (61 m) downstream from county road bridge, 0.5 mile (0.8 km) downstream from Rocky Ford Dam, 2 miles (3 km) northeast of Sigurd, and 5 miles (8 km) upstream from Lost Creek.

DRAINAGE AREA.--3,340 mi² (8,650 km²), approximately.

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,579 m) by barometer. July to September 1912, nonrecording gage 0.3 mile (0.5 km) downstream at different datum. July 31, 1914 to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917 to Oct. 16, 1935, water-stage recorder, at present site at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.--60 years, 95.7 ft³/s (2.710 m³/s), 69,330 acre-ft/yr (85.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 538 ft³/s (15.2 m³/s) Mar. 3 (gage height, 3.74 ft or 1.140 m); minimum, 1.2 ft³/s (0.034 m³/s) several days in August.

Period of record: Maximum discharge, 2,400 ft³/s (68.0 m³/s) May 30, 1922 (gage height, 6.1 ft or 1.859 m, present datum), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates were closed.

REMARKS.--Records good. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

REVISIONS (WATER YEARS).--WSP 1394: 1927-28, 1947.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	152	104	95	160	420	141	5.7	69	1.4	33	39
2	112	154	103	95	163	488	154	5.5	52	1.4	26	57
3	106	164	105	97	172	524	156	6.4	29	1.4	26	31
4	93	169	105	99	210	518	149	14	12	1.5	34	27
5	85	172	116	97	246	491	145	44	3.7	1.5	36	26
6	79	175	115	99	270	465	132	33	1.5	1.5	36	26
7	78	180	110	102	284	375	131	11	1.5	1.5	45	8.0
8	80	187	110	108	287	258	134	4.8	1.5	1.5	56	11
9	78	192	108	108	280	210	135	4.0	11	1.5	45	19
10	80	187	105	105	287	198	142	3.4	11	1.5	37	27
11	93	186	104	98	313	228	146	3.5	26	1.5	39	45
12	110	187	105	104	342	287	144	42	34	1.5	19	51
13	120	167	107	105	350	155	139	61	22	1.5	3.2	54
14	131	120	110	105	353	264	138	54	15	1.5	1.2	58
15	131	102	112	103	353	390	128	49	6.9	1.5	1.2	59
16	139	101	108	104	356	233	127	29	9.3	1.5	1.2	59
17	196	101	108	116	361	164	137	23	13	4.1	1.2	55
18	199	103	114	129	364	167	139	42	20	22	1.2	52
19	168	106	113	136	364	182	125	69	24	44	1.2	58
20	157	104	109	138	361	195	116	78	17	57	1.2	62
21	146	105	106	138	358	194	112	48	7.1	66	1.2	58
22	143	104	105	129	356	179	83	27	2.7	67	1.2	55
23	143	107	106	118	361	143	59	33	1.6	59	1.2	55
24	148	108	106	118	361	123	27	34	19	57	1.3	43
25	146	109	106	128	358	117	7.8	59	24	48	1.3	31
26	149	107	102	142	361	114	4.2	70	30	43	1.3	44
27	151	102	101	143	372	104	4.5	57	9.4	40	1.3	65
28	153	100	104	143	399	102	4.9	28	1.4	63	1.3	74
29	157	99	108	148	-----	146	5.1	7.1	1.4	77	6.3	74
30	160	101	112	150	-----	158	5.5	16	1.4	77	17	70
31	158	-----	106	155	-----	136	-----	59	-----	52	26	-----
TOTAL	4,011	4,051	3,333	3,655	8,802	7,728	3,071.0	1,020.4	477.4	799.8	503.0	1,393.0
MEAN	129	135	108	118	314	249	102	32.9	15.9	25.8	16.2	46.4
MAX	199	192	116	155	399	524	156	78	69	77	56	74
MIN	78	99	101	95	160	102	4.2	3.4	1.4	1.4	1.2	8.0
AC-FT	7,960	8,040	6,610	7,250	17,460	15,330	6,090	2,020	947	1,590	998	2,760

CAL YR 1973 TOTAL 65,528.8 MEAN 180 MAX 912 MIN 3.4 AC-FT 130,000
WTR YR 1974 TOTAL 38,844.6 MEAN 106 MAX 524 MIN 1.2 AC-FT 77,050

SEVIER LAKE BASIN

255

10205030 Salina Creek near Emery, Utah

LOCATION.--Lat 38°54'43", long 111°31'47", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.12, T.22 S., R.3 E., Sevier County, on right bank, 2.5 miles (4.0 km) upstream from Soil Conservation Service retention dam, 15 miles (24 km) west of Emery, and 18 miles (29 km) east of Salina.

DRAINAGE AREA.--53 mi² (137 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage, 7,000 ft (2,134 m) from topographic map. Prior to June 9, 1971, at site 300 ft (91 m) downstream at different datum.

AVERAGE DISCHARGE.--11 years, 17.5 ft³/s (0.496 m³/s), 12,680 acre-ft/yr (15.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 519 ft³/s (14.7 m³/s) May 16 (gage height, 5.07 ft or 1.545 m); minimum recorded discharge, 5.7 ft³/s (0.16 m³/s) Dec. 6.

Period of record: Maximum discharge, 519 ft³/s (14.7 m³/s) May 16, 1974 (gage height, 5.07 ft or 1.545 m); minimum discharge recorded, 2.8 ft³/s (0.079 m³/s) Dec. 15, 1966, Mar. 9, 1969.

REMARKS.--Records good, except those for winter periods, and periods of no gage-height record, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	9.2	8.4	10	13	20	63	65	13	10	11
2	14	12	9.2	8.2	10	12	19	83	58	12	12	11
3	14	12	9.2	8.2	10	11	19	92	52	14	11	11
4	14	13	9.2	8.2	10	11	19	90	47	14	11	11
5	14	12	9.2	8.6	10	11	19	105	44	14	11	11
6	14	12	9.2	8.6	9.4	12	19	98	42	14	11	11
7	15	12	9.2	8.6	9.2	14	19	121	39	14	11	10
8	15	11	9.2	8.6	9.2	14	19	187	41	13	11	10
9	16	11	9.2	8.6	9.2	14	19	277	37	13	11	10
10	16	11	9.2	8.6	10	15	22	290	33	15	11	10
11	16	11	9.2	8.6	11	16	21	239	31	19	11	10
12	15	11	9.2	8.6	11	16	20	267	29	18	11	9.9
13	15	11	9.2	8.8	11	16	20	265	27	17	12	9.9
14	15	10	9.2	9.0	11	16	20	209	26	16	12	11
15	15	10	9.2	9.1	11	16	21	283	25	17	12	10
16	14	11	9.2	9.4	11	16	21	356	24	17	12	10
17	14	10	9.6	9.7	11	16	21	233	24	19	12	9.9
18	14	10	9.6	10	11	17	22	169	23	16	12	9.9
19	14	10	9.6	10	11	17	23	121	22	14	12	9.8
20	14	11	9.6	10	11	17	25	89	21	16	12	9.7
21	14	10	9.6	9.7	10	15	24	71	20	13	12	9.6
22	14	9.8	9.6	8.6	10	15	24	65	19	12	12	9.7
23	14	9.4	9.6	8.6	10	15	24	65	18	12	14	9.8
24	14	9.4	9.6	8.6	10	15	25	66	17	12	14	9.9
25	14	9.4	9.6	8.6	10	15	32	86	16	13	14	9.9
26	13	9.2	9.0	8.6	12	15	28	121	15	11	14	9.9
27	13	9.2	9.2	9.0	13	16	26	134	14	10	13	10
28	13	9.2	9.6	10	13	16	28	121	14	10	11	10
29	14	9.2	9.6	10	-----	17	34	105	13	9.7	11	10
30	14	9.2	9.3	10	-----	18	46	86	13	9.5	11	10
31	13	-----	8.9	10	-----	21	-----	75	-----	9.8	11	-----
TOTAL	442	318.0	289.2	279.5	295.0	468	699	4,632	869	427.0	365	304.9
MEAN	14.3	10.6	9.33	9.02	10.5	15.1	23.3	149	29.0	13.8	11.8	10.2
MAX	16	13	9.6	10	13	21	46	356	65	19	14	11
MIN	13	9.2	8.9	8.2	9.2	11	19	63	13	9.5	10	9.6
AC-FT	877	631	574	554	585	928	1,390	9,190	1,720	847	724	605

CAL YR 1973 TOTAL 9,051.9 MEAN 24.8 MAX 281 MIN 5.0 AC-FT 17,950

WTR YR 1974 TOTAL 9,388.6 MEAN 25.7 MAX 356 MIN 8.2 AC-FT 18,620

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-9	2000	4.96	466	5-26	2000	4.72	276
5-16	2100	5.07	519				

NOTE.--No gage-height record Mar. 10 to Apr. 24.

SEVIER LAKE BASIN

10206000 Salina Creek at Salina, Utah

LOCATION.--Lat 38°57'25", long 111°51'58", in SW¼NW¼NW¼ sec.25, T.21 S., R.1 W., Sevier County, on right bank 150 ft (46 m) upstream from bridge on U.S. Highway 89 in Salina and 0.8 mile (1.3 km) upstream from mouth.

DRAINAGE AREA.--290 mi² (751 km²), approximately.

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft (1,567 m) estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft (46 m) downstream at different datum. Mar. 23, 1915, to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917, to Sept. 30, 1919, water-stage recorder at site about 0.2 mile (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--29 years (1915-16, 1917-19, 1943-55, 1960-74), 21.1 ft³/s (0.598 m³/s), 15,290 acre-ft/yr (18.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 10 (gage height, 5.07 ft or 1.54 m, from highwater mark); minimum, 0.32 ft³/s (0.009 m³/s) Oct. 23.
Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) Aug. 26, 1970 (gage height, 7.17 ft or 2.185 m, from floodmark), from rating curve extended above 400 ft³/s (11.3 m³/s), on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records fair except for winter periods and periods of no gage-height record, which are poor. Diversions above and below station for irrigation.

REVISIONS(WATER YEARS).--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1962(M), 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	6.9	21	14	18	23	18	161	50	1.2	1.2	.56
2	.47	7.9	20	13	18	23	23	392	34	1.2	1.6	.55
3	.55	10	19	13	18	21	18	513	25	1.2	1.6	.50
4	.52	10	18	13	18	21	15	482	18	1.2	1.1	.46
5	.60	9.8	17	14	18	21	15	502	15	1.2	1.0	.56
6	1.6	13	17	16	17	28	16	551	12	1.2	1.0	.64
7	2.7	13	16	16	17	33	12	535	13	1.2	1.0	.53
8	4.4	11	16	16	17	33	10	636	11	1.2	1.0	.76
9	7.8	9.2	16	16	17	33	13	705	9.0	1.2	.94	.67
10	8.2	10	16	15	17	33	14	744	7.3	1.2	.94	.55
11	7.6	9.6	15	15	17	33	11	606	6.2	1.2	.94	.53
12	10	11	15	15	19	33	7.1	526	5.0	1.2	.94	.55
13	11	15	15	16	21	33	4.8	568	3.8	1.2	.94	.76
14	4.9	14	15	17	21	34	6.0	452	3.5	1.2	.90	1.3
15	1.5	10	16	18	21	34	8.6	456	2.5	1.3	.90	1.1
16	6.4	14	15	18	21	35	14	516	2.2	2.3	.90	.64
17	9.6	15	14	18	21	39	22	509	1.9	1.3	.90	.63
18	10	19	13	18	21	44	29	465	1.7	1.3	.90	.70
19	10	19	14	18	21	42	30	400	1.6	3.5	.90	.61
20	11	16	17	18	21	37	30	250	1.5	4.5	.90	.63
21	12	22	15	18	20	28	29	130	1.5	1.3	.79	.55
22	14	15	15	16	19	23	30	125	1.4	1.2	.81	1.2
23	9.4	15	16	16	18	25	34	123	1.4	1.2	.73	.94
24	13	16	14	16	18	23	45	119	1.3	1.2	.80	.59
25	16	16	14	16	18	21	56	120	1.3	1.2	.77	.57
26	16	17	14	16	20	28	140	181	1.3	1.3	.93	.63
27	13	17	14	16	23	30	110	200	1.2	1.2	.62	.73
28	13	18	14	16	23	29	100	207	1.2	1.1	.65	1.2
29	8.7	19	14	16	-----	19	101	110	1.2	1.1	.58	1.3
30	3.7	19	14	16	-----	16	123	100	1.2	1.1	.81	.64
31	4.6	-----	14	16	-----	19	-----	88	-----	1.1	.81	-----
TOTAL	234.84	417.4	483	495	538	894	1,084.5	11,472	237.2	44.0	28.80	21.58
MEAN	7.58	13.9	15.6	16.0	19.2	28.8	36.2	370	7.91	1.42	.93	.72
MAX	16	22	21	18	23	44	140	744	50	4.5	1.6	1.3
MIN	.47	6.9	13	13	17	16	4.8	88	1.2	1.1	.58	.46
AC-FT	466	828	958	982	1,070	1,770	2,150	22,750	470	87	57	43

CAL YR 1973 TOTAL 20,041.52 MEAN 54.9 MAX 762 MIN .22 AC-FT 39,750
WTR YR 1974 TOTAL 15,950.32 MEAN 43.7 MAX 744 MIN .46 AC-FT 31,640

NOTE.--No gage-height record May 29 to Aug. 20.

SEVIER LAKE BASIN

257

10208500 Oak Creek near Fairview, Utah

LOCATION.—Lat 39°40'26", long 111°24'30", in NW¼NE¼SW¼ sec.19, T.13 S., R.5 E., Sanpete County, on right bank 1.5 miles (2.4 km) upstream from mouth and 3.5 miles (5.6 km) northeast of Fairview.

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

PERIOD OF RECORD.—October 1964 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m) from topographic map.

AVERAGE DISCHARGE.—10 years, 10.8 ft³/s (0.306 m³/s), 7,820 acre-ft/yr (9.64 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 134 ft³/s (3.79 m³/s) May 12 (gage height, 3.34 ft or 1.018 m); minimum, 1.0 ft³/s (0.028 m³/s) Dec. 3 and Mar. 21.

Period of record: Maximum discharge, 262 ft³/s (7.42 m³/s) May 20, 1973 (gage height, 4.08 ft or 1.244 m); minimum discharge, 0.85 ft³/s (0.024 m³/s) Nov. 22, 1973.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.5	1.9	2.1	2.0	2.2	2.8	13	38	5.4	2.8	1.4
2	2.4	2.5	2.0	2.0	2.0	2.5	2.9	17	34	5.2	2.6	1.5
3	2.4	2.4	1.9	1.9	2.0	2.2	2.6	21	31	5.2	2.5	1.5
4	2.4	2.5	1.9	2.0	2.0	2.0	2.5	26	28	4.8	2.4	1.5
5	2.4	2.6	1.9	2.0	2.1	2.1	2.4	31	26	4.6	2.2	1.5
6	2.4	2.7	1.7	2.0	1.9	2.2	2.5	38	24	4.4	2.1	1.5
7	2.4	2.6	1.9	2.0	2.1	2.2	2.3	46	22	4.2	2.2	1.5
8	2.7	2.7	1.9	2.0	1.9	2.1	2.4	60	22	4.2	2.1	1.5
9	3.2	2.4	1.8	2.0	2.0	2.1	2.9	84	19	4.0	2.2	1.5
10	3.0	2.3	1.7	2.0	2.0	2.2	2.2	107	17	3.8	2.1	1.5
11	2.6	2.2	1.9	2.0	2.0	2.3	3.0	112	15	3.6	2.0	1.5
12	2.6	2.3	1.8	2.0	2.0	2.4	3.0	117	15	3.4	1.9	1.6
13	2.5	2.4	2.0	2.0	2.0	2.5	2.4	111	13	3.3	1.9	1.6
14	2.4	2.1	1.9	2.0	2.0	2.6	2.6	104	13	3.1	1.9	1.8
15	2.4	2.2	1.7	2.1	2.0	2.9	2.9	103	12	3.3	1.8	1.8
16	2.4	2.1	1.9	2.1	2.0	3.4	3.4	112	11	4.0	1.7	1.7
17	2.3	2.0	1.9	2.1	2.0	3.9	3.8	110	11	4.0	1.7	1.6
18	2.2	1.9	2.0	2.2	2.0	3.9	4.5	101	10	3.4	1.7	1.6
19	2.2	2.3	1.7	2.2	2.0	3.2	4.6	87	9.5	3.3	1.6	1.6
20	2.2	2.0	1.9	2.2	2.0	2.8	4.5	72	8.9	3.8	1.6	1.6
21	2.2	2.0	1.9	2.2	2.0	2.6	4.0	62	8.3	3.4	1.7	1.6
22	2.2	1.9	1.9	2.0	2.0	2.7	4.5	58	8.0	3.3	1.6	1.5
23	2.3	2.2	2.0	2.2	2.0	2.7	5.7	55	7.5	3.1	1.6	1.5
24	2.3	2.2	2.0	2.1	1.9	2.6	7.1	56	7.2	3.3	1.6	1.5
25	2.4	1.9	2.0	2.1	2.0	2.9	8.9	58	6.7	3.1	1.6	1.5
26	2.3	2.0	1.9	2.2	2.1	3.3	10	59	6.4	2.9	1.5	1.4
27	2.2	1.9	2.1	2.1	2.0	3.3	9.1	58	6.2	2.9	1.5	1.5
28	2.2	1.9	2.2	2.0	2.1	3.1	8.4	55	5.9	3.1	1.5	1.7
29	2.4	1.9	2.3	2.0	-----	2.9	8.3	54	5.9	2.6	1.5	1.7
30	2.4	2.0	2.2	2.1	-----	3.0	9.8	46	5.7	2.5	1.4	1.7
31	2.5	-----	2.2	2.0	-----	3.2	-----	42	-----	2.5	1.4	-----
TOTAL	74.9	66.6	60.0	63.9	56.1	84.0	136.0	2,075	447.2	113.7	57.9	46.9
MEAN	2.42	2.22	1.94	2.06	2.00	2.71	4.53	66.9	14.9	3.67	1.87	1.56
MAX	3.2	2.7	2.3	2.2	2.1	3.9	10	117	38	5.4	2.8	1.8
MIN	2.2	1.9	1.7	1.9	1.9	2.0	2.2	13	5.7	2.5	1.4	1.4
AC-FT	149	132	119	127	111	167	270	4,120	887	226	115	93
CAL YR 1973	TOTAL 4,798.8 MEAN 13.1 MAX 211 MIN 1.7 AC-FT 9,520											
WTR YR 1974	TOTAL 3,282.2 MEAN 8.99 MAX 117 MIN 1.4 AC-FT 6,510											

PEAK DISCHARGE (BASE, 25 CFS).--May 12 (2000) 134 cfs (3.34ft); May 16 (1800) 132 cfs (3.31 ft).

SEVIER LAKE BASIN

10210000 Pleasant Creek near Mount Pleasant, Utah

LOCATION.—Lat 39°32'35", long 111°23'00", in NW¼NW¼SE¼ sec.5, T.15 S., R.5 E., Sanpete County, on left bank 0.2 mile (0.3 km) downstream from South Fork and 3.9 miles (6.3 km) east of Mount Pleasant.

DRAINAGE AREA.—16.4 mi² (42.5 km²).

PERIOD OF RECORD.—October 1954 to current year.

GAGE.—Water-stage recorder. Datum of gage is 6,759.67 ft (2,060.347 m) above mean sea level (levels by U.S. Soil Conservation Service).

AVERAGE DISCHARGE.—20 years, 17.5 ft³/s (0.50 m³/s), 12,680 acre-ft/yr (15.6 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 108 ft³/s (3.1 m³/s) May 27 (gage height, 5.71 ft or 1.740 m); minimum, 8.0 ft³/s (0.227 m³/s) Mar. 21.

Period of record: Maximum discharge not determined, occurred during mud-rock flow Aug. 16, 1955, (estimated flow 750 ft³/s or 21.2 m³/s below debris basin located 0.5 mile or 0.8 km below gage); minimum, 0.8 ft³/s (0.023 m³/s) Sept. 28, 1959, caused by temporary obstruction upstream.

Flood of July 24, 1946, was 2,060 ft³/s (58.3 m³/s), from critical-depth measurement of peak flow over retention dam 0.5 mile (0.8 km) below gage.

REMARKS.—Records fair. Records include flow of Candland ditch and Coal Fork ditch which are transmountain diversions from San Rafael River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	9.5	9.5	9.4	9.2	9.9	23	88	25	15	10
2	11	10	9.3	8.9	9.4	9.5	10	27	88	23	15	10
3	11	10	9.4	9.5	9.4	8.4	9.9	30	85	23	15	10
4	10	10	9.4	9.5	9.4	8.4	9.9	33	85	22	15	9.9
5	10	10	9.3	9.6	9.4	8.4	10	37	83	22	14	10
6	10	10	9.0	9.4	9.4	8.8	10	43	75	21	14	9.9
7	10	10	9.2	9.5	9.4	9.7	9.9	51	69	21	14	9.9
8	11	10	9.2	9.6	9.4	9.6	10	60	62	21	14	9.9
9	12	9.9	9.2	9.5	9.4	9.3	11	69	56	20	14	9.9
10	11	9.7	9.4	9.4	9.4	9.5	10	69	56	19	14	9.6
11	11	9.9	9.4	9.4	9.4	9.5	10	69	60	19	13	9.6
12	11	10	9.4	9.5	9.4	9.7	10	70	65	18	13	9.7
13	12	10	9.6	9.4	9.4	10	10	70	68	18	12	9.8
14	12	9.7	9.7	9.5	9.6	10	11	66	71	17	12	10
15	12	9.9	9.7	9.5	9.7	10	11	70	71	19	12	10
16	11	9.6	9.7	9.7	9.7	11	12	74	69	21	12	9.9
17	11	9.7	9.6	9.9	9.7	11	13	76	64	20	12	9.2
18	11	9.8	9.7	9.5	9.7	11	14	74	59	18	12	9.0
19	11	10	9.3	9.7	9.4	10	13	74	57	20	11	9.0
20	11	9.7	9.3	9.7	9.4	9.9	12	70	55	18	11	9.0
21	11	9.8	9.5	9.7	9.4	9.7	12	66	51	18	11	8.9
22	11	9.6	9.5	9.4	9.4	9.8	14	65	47	18	11	9.0
23	11	9.9	9.5	9.4	9.4	9.7	17	65	45	17	11	8.9
24	11	10	9.4	9.4	9.4	9.6	18	70	42	17	11	8.9
25	11	10	9.4	9.4	9.4	10	23	77	37	17	11	9.2
26	11	10	9.0	9.4	9.4	10	22	85	33	17	11	9.2
27	10	10	9.7	9.4	9.4	10	18	96	26	16	11	9.3
28	10	10	9.6	9.4	9.1	10	17	92	27	16	11	9.4
29	10	9.9	9.9	9.4	-----	9.9	17	88	25	15	10	9.4
30	10	9.6	9.7	9.4	-----	10	19	88	25	15	10	9.4
31	10	-----	9.6	9.4	-----	10	-----	86	-----	15	10	-----
TOTAL	335	296.7	293.1	293.9	264.3	301.6	393.6	2,033	1,744	586	382	285.9
MEAN	10.8	9.89	9.45	9.48	9.44	9.73	13.1	65.6	58.1	18.9	12.3	9.53
MAX	12	10	9.9	9.9	9.7	11	23	96	88	25	15	10
MIN	10	9.6	9.0	8.9	9.1	8.4	9.9	23	25	15	10	8.9
AC-FT	664	589	581	583	524	598	781	4,030	3,460	1,160	758	567

CAL YR 1973 TOTAL 8,713.5 MEAN 23.9 MAX 151 MIN 6.9 AC-FT 17,280
 WTR YR 1974 TOTAL 7,209.1 MEAN 19.8 MAX 96 MIN 8.4 AC-FT 14,300

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-17	0100	5.57	80	6-14	1900	5.45	80
5-27	1900	5.71	108				

NOTE.—No gage height record Jan 22 to Feb. 28.

SEVIER LAKE BASIN

259

10215700 Oak Creek near Spring City, Utah

LOCATION.—Lat 39°26'52", long 111°25'29", in SW¼SE¼SW¼ sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft (122 m) upstream from powerplant diversion, 0.8 mile (1.3 km) downstream from South Fork, and 4.5 miles (7.2 km) southeast of Spring City.

DRAINAGE AREA.—8.0 mi² (21 km²), approximately.

PERIOD OF RECORD.—October 1964 to current year.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 7,400 ft (2,260 m) from topographic map.

AVERAGE DISCHARGE.—10 years, 10.3 ft³/s (0.292 m³/s), 7,460 acre-ft/yr (9.20 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) May 28 (gage height, 2.50 ft or 0.762 m); minimum recorded, 2.7 ft³/s (0.076 m³/s) March 21.

Period of record: Maximum discharge, 300 ft³/s (8.5 m³/s) July 23, 1965 (gage height, 3.75 ft or 1.143 m from floodmark), from rating curve extended above 75 ft³/s (2.12 m³/s); minimum, 0.93 ft³/s (0.026 m³/s) Mar. 6, 1969.

REMARKS.—Records good, except for periods of ice effect which are poor. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.9	4.0	4.0	3.7	4.0	3.5	4.3	75	16	9.1	5.1
2	5.9	4.9	4.0	4.0	3.7	4.1	3.6	4.8	71	16	10	5.0
3	5.9	4.9	4.0	4.0	3.7	4.0	3.3	5.6	63	15	8.2	5.0
4	5.8	4.6	4.0	3.6	3.7	4.0	3.2	6.5	62	14	7.8	4.9
5	5.8	4.6	4.0	3.5	3.7	4.0	3.3	7.4	58	13	7.7	4.9
6	5.9	4.6	4.0	3.5	3.9	4.0	3.4	8.6	47	13	7.4	4.9
7	5.9	4.6	4.0	3.5	4.0	4.0	3.4	11	42	12	7.4	4.9
8	6.0	4.6	4.0	3.5	4.1	4.0	3.3	15	34	12	7.3	4.8
9	5.5	4.6	4.0	3.5	4.2	4.0	3.5	23	31	12	7.3	4.8
10	5.5	4.6	4.0	3.5	4.0	4.0	3.5	28	32	11	7.0	4.7
11	5.9	4.6	4.0	3.5	4.0	4.0	3.4	28	38	11	6.9	4.7
12	5.5	5.0	4.0	3.5	4.0	4.0	3.3	33	44	10	6.6	4.9
13	5.9	4.9	4.0	3.5	4.0	4.0	3.5	36	49	10	6.6	5.2
14	5.9	4.4	4.0	3.5	3.9	4.0	3.4	29	51	9.6	6.6	5.3
15	5.9	4.7	4.0	3.5	4.0	4.0	3.5	31	50	9.8	6.3	5.3
16	5.5	4.8	4.0	3.5	4.0	4.1	3.6	37	57	12	6.1	5.1
17	5.2	4.6	4.0	3.5	4.0	4.2	3.5	41	58	12	6.0	4.9
18	5.2	4.8	4.0	3.5	4.0	4.1	3.8	48	50	10	5.9	4.9
19	5.2	4.7	4.0	3.5	4.0	4.0	3.5	43	48	10	5.8	4.9
20	5.2	5.0	4.0	3.5	4.0	3.5	3.4	33	45	9.5	5.8	4.9
21	5.2	4.6	4.0	3.5	4.0	3.9	3.3	26	37	9.6	5.7	4.8
22	4.9	4.3	4.0	3.5	4.0	3.5	3.6	22	32	11	5.6	4.9
23	4.9	4.0	4.0	3.5	4.1	3.5	4.2	22	29	11	5.5	4.8
24	4.9	4.0	4.0	3.6	4.3	3.4	4.4	26	26	9.4	5.5	4.6
25	4.9	4.0	4.0	3.7	4.4	3.5	4.8	41	25	8.7	5.5	4.6
26	4.9	4.0	4.0	3.7	3.9	3.5	5.2	67	24	9.0	5.4	4.6
27	4.6	4.0	4.0	3.7	4.0	3.5	4.3	88	21	8.8	5.3	4.6
28	4.6	4.0	4.0	3.7	4.0	3.5	3.7	94	19	8.6	5.2	4.7
29	4.6	4.0	4.0	3.7	-----	3.5	3.7	88	17	8.1	5.2	4.6
30	4.6	4.0	4.0	3.7	-----	3.5	3.6	76	17	7.8	5.2	4.6
31	4.9	-----	4.0	3.7	-----	3.7	-----	76	-----	9.1	5.2	-----
TOTAL	166.5	135.3	124.0	111.6	111.3	119.0	109.7	1,099.2	1,252	339.0	201.1	145.9
MEAN	5.37	4.51	4.00	3.60	3.98	3.84	3.66	35.5	41.7	10.9	6.49	4.86
MAX	6.0	5.0	4.0	4.0	4.4	4.2	5.2	94	75	16	10	5.3
MIN	4.6	4.0	4.0	3.5	3.7	3.4	3.2	4.3	17	7.8	5.2	4.6
AC-FT	330	268	246	221	221	236	218	2,180	2,480	672	399	289
CAL YR 1973	TOTAL 4,637.2	MEAN 12.7	MAX 98	MIN 2.3	AC-FT 9,200							
WTR YR 1974	TOTAL 3,914.6	MEAN 10.7	MAX 94	MIN 3.2	AC-FT 7,760							

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-17	2100	2.33	49	6-16	2000	2.38	76
5-28	1900	2.50	103				

10215900 Manti Creek below Dugway Creek, near Manti, Utah

LOCATION.—Lat 39°15'33", long 111°34'45", in NE¼SE¼SE¼ sec.9, T.18 S., R.3 E., Sanpete County, on right bank 200 ft (61 m) downstream from a side road bridge 0.6 mile (1.0 km) upstream from upper powerplant, 2.3 miles (3.7 km) east of cattle guard at Manti-LaSal Forest Boundary, and 3.5 miles (5.6 km) east of Manti.

DRAINAGE AREA.—26.4 mi² (68.4 km²).

PERIOD OF RECORD.—October 1964 to Sept. 30, 1974 (discontinued).

GAGE.—Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map.

AVERAGE DISCHARGE.—10 years, 28.7 ft³/s (0.813 m³/s), 20,790 acre-ft/yr (25.6 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 419 ft³/s (11.9 m³/s) May 28 (gage height, 2.53 ft or 0.771 m); minimum recorded, 3.9 ft³/s (0.11 m³/s) Mar. 5.

Period of record: Maximum discharge, 682 ft³/s (19.3 m³/s) June 9, 1973 (gage height, 2.93 ft or 0.893 m); minimum, 0.90 ft³/s (0.025 m³/s) Nov. 3, 1968.

REMARKS.—Records fair, except for period of no gage-height record, which are poor. Records do not include flow diverted around station in an 8-inch (20 cm) pipeline, for culinary water for City of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

REVISIONS.—WSP 2127: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.9	8.8	7.3	6.9	5.1	5.0	40	239	16	12	9.8
2	12	7.9	9.0	7.0	6.9	5.1	4.7	43	169	15	12	9.8
3	12	7.7	8.6	7.0	6.7	4.8	4.6	60	159	15	11	9.8
4	12	7.9	8.0	7.8	6.7	4.8	4.4	65	183	14	11	9.8
5	12	7.9	7.4	8.0	6.9	4.8	5.0	89	205	13	11	9.9
6	12	8.3	7.4	7.5	6.6	4.8	5.0	126	161	13	11	9.8
7	12	8.4	7.7	7.4	6.5	4.7	4.8	171	133	13	11	9.5
8	12	8.3	8.2	7.4	6.3	4.6	4.7	181	109	13	11	9.5
9	12	8.1	8.0	7.4	6.2	4.3	5.4	170	92	13	11	9.3
10	11	8.1	7.9	7.4	6.0	4.4	5.1	222	93	13	11	9.3
11	11	8.1	8.0	7.2	6.2	4.3	5.0	194	94	13	11	9.3
12	11	8.1	8.2	7.2	6.0	4.5	5.0	164	93	12	11	9.3
13	11	8.3	8.2	7.2	5.9	4.7	5.0	217	91	12	11	9.3
14	10	7.4	8.2	7.0	5.9	4.7	5.0	266	91	12	11	9.3
15	9.9	7.4	8.2	7.0	5.8	5.6	5.0	225	82	12	11	9.3
16	9.4	8.4	8.2	7.2	5.8	5.2	5.4	188	72	13	11	9.3
17	8.8	8.4	8.0	7.7	5.9	4.9	5.8	153	65	14	11	9.3
18	8.6	8.3	7.9	7.2	5.7	4.9	6.2	117	58	13	11	9.1
19	8.5	8.6	7.9	7.0	5.6	5.0	5.9	110	51	13	11	9.1
20	8.3	8.6	7.9	7.0	5.6	4.3	5.7	105	45	14	11	9.1
21	8.1	8.0	8.0	7.0	5.3	4.3	5.6	100	40	13	11	8.9
22	7.9	7.4	7.7	6.7	5.3	4.3	8.0	97	36	12	11	8.9
23	7.5	7.4	7.7	7.2	5.1	4.3	11	92	34	12	11	8.9
24	7.5	7.4	7.7	6.9	5.0	4.3	15	98	31	12	11	8.9
25	7.6	7.4	7.7	6.9	4.9	4.6	20	143	29	12	11	8.8
26	7.6	7.4	7.2	6.9	5.1	4.9	20	217	26	12	11	8.7
27	7.5	7.4	7.7	6.9	5.0	5.0	14	290	23	12	10	8.6
28	7.7	8.6	8.0	6.9	4.9	5.0	19	320	20	11	10	8.5
29	7.5	8.9	7.9	6.9	-----	5.0	26	343	19	11	10	8.4
30	8.7	8.8	7.8	6.9	-----	5.0	33	322	18	11	10	8.3
31	7.7	-----	7.6	6.9	-----	5.0	-----	244	-----	11	10	-----
TOTAL	300.8	240.8	246.7	222.0	164.7	147.2	274.3	5,172	2,561	395	338	275.8
MEAN	9.70	8.03	7.96	7.16	5.88	4.75	9.14	167	85.4	12.7	10.9	9.19
MAX	12	8.9	9.0	8.0	6.9	5.6	33	343	239	16	12	9.9
MIN	7.5	7.4	7.2	6.7	4.9	4.3	4.4	40	18	11	10	8.3
AC=FT	597	478	489	440	327	292	544	10,260	5,080	783	670	547

CAL YR 1973 TOTAL 14,717.7 MEAN 40.3 MAX 396 MIN 4.3 AC=FT 29,190
WTR YR 1974 TOTAL 10,338.3 MEAN 28.3 MAX 343 MIN 4.3 AC=FT 20,510

PEAK DISCHARGE (BASE, 100 CFS).—May 14 (1300) 349 cfs (2.38 ft); May 28 (1700) 419 cfs (2.53 ft).

NOTE.—No gage-height record Mar. 20 to Apr. 23.

10216200 Gunnison Reservoir near Sterling, Utah

LOCATION.—Lat 39°12'23", long 111°42'37", in SE 1/4 sec. 32, T. 18 S., R. 2 E., Sanpete County, on right bank 250 ft (76 m) upstream from earthfill, rockfaced dam on San Pitch River, 1.2 miles (1.9 km) northwest of Sterling, 5 miles (8.0 km) southwest of Manti, and 7 miles (11.3 km) northeast of Gunnison.

DRAINAGE AREA.—672 mi² (1,740 km²).

PERIOD OF RECORD.—January 1965 to current year. No previous records collected at this site.

GAGE.—Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft (1,635.61 m) above mean sea level. (Levels by U.S. Soil Conservation Service and U.S. Geological Survey.)

EXTREMES.—Current year: Maximum observed contents, 18,580 acre-ft (22.9 hm³) Apr. 3, 4 (elevation, 5,389.9 ft or 1,642.84 m); minimum contents observed 4,090 acre-ft (5.04 hm³) Oct. 1.

Period of record: Maximum contents observed, 18,960 acre-ft (23.4 hm³) July 9-11, 1965 (elevation, 5,390.2 ft or 1,642.93 m); no contents during September 1966, Oct. 1-13, 1966, Aug. 20-29, 1972.

REMARKS.—The reservoir is formed by earthfill, rockfaced dam on the San Pitch River. Active capacity, 18,200 acre-ft (22.4 hm³) at elevation 5,389.6 ft (1,642.75 m). Dead storage 650 acre-ft (801,000 m³) below elevation 5,366.2 ft (1,635.61 m). Figures given herein represent active contents. Extensive diversions above and below reservoir for irrigation. The reservoir is owned and operated by the Gunnison Irrigation Company.

REVISIONS.—WSP 2127: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Soil Conservation Service in 1965)

5,374	3,350	5,384	11,640
5,376	4,610	5,386	13,840
5,378	6,080	5,388	16,200
5,380	7,750	5,390	18,710
5,382	9,610		

CONTENTS, IN ACRE-FEET, AT 1:00, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,090			13,240	17,140	17,820	18,460	18,070	17,310	16,450	12,180	
2				13,500		17,820				16,450		6,570
3			9,130				18,580	17,820	17,440			
4					17,310	17,820	18,580					
5						17,820	18,460	17,690	17,400	16,200		
6					17,690	17,820	18,460					
7			10,100	14,190		17,690	18,330		17,440			5,930
8						17,690	18,330	17,690				
9						17,690	18,330			15,600	11,120	
10			10,300			17,820						
11					17,690				17,310			
12						17,820			17,190		10,500	
13					17,690	17,820		17,690				
14						17,820						5,700
15						17,690	18,330	17,690	17,070			
16	7,320			14,770	17,560	17,560	18,460	17,820			9,810	
17						17,440			16,940			4,420
18												
19		7,320		15,120		17,560		17,690			9,320	
20			12,390			17,560		17,690	16,940			
21						17,690					8,940	
22						17,950	18,460	17,560	16,940			
23						18,070	18,200			13,620		
24												
25						18,200			16,820			
26							18,200				8,020	
27						18,070			16,700			
28				16,450	17,820	18,070						
29		9,040			-----	18,200	18,070					
30		9,130			-----		^a 18,070		^a 16,510		7,320	^a 4,250
31	7,320	-----	13,280	^a 17,010	-----	^a 18,370	-----	17,310	-----	^a 12,340	^a 7,070	-----
(+)	5,379.5	5,381.5	5,385.5	-----	5,389.3	-----	-----	5,388.9	-----	-----	-----	-----
(*)	+3,100	+1,810	+4,150	+3,730	+810	+550	-300	-760	-800	-4,170	-5,270	-2,820

CAL YR 1973..... +8,170
WTR YR 1974..... +30

+ Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

a No gage-height record; contents interpolated.

10216210 San Pitch River near Sterling, Utah

LOCATION.--Lat 39°12'23", long 111°42'37", in SE¼NW¼NE¼ sec.32, T.18 S., R.2 E., Sanpete County, on right bank 100 ft (30 m) downstream from outlet gate of Gunnison Reservoir, 400 ft (122 m) upstream from diversion dam and head of Gunnison Canal, 1,000 ft (305 m) upstream from Six Mile Creek, 1.2 miles (1.9 km) northwest of Sterling, 5 miles (8.0 km) southwest of Manti, 7 miles (11.3 km) north-east of Gunnison, and 13 miles (20.9 km) upstream from mouth.

DRAINAGE AREA.--672 mi² (1,740 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,360 ft (1,634 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 47.7 ft³/s (1.35 m³/s), 34,560 acre-ft/yr (42.6 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 512 ft³/s (14.5 m³/s) Mar. 12; minimum, no flow Oct. 2 to Nov. 13.

Period of record: Maximum daily discharge, 512 ft³/s (14.5 m³/s) Mar. 12, 1974; no flow at times most years when reservoir gates were closed.

REMARKS.--Records good except those for periods when water was flowing over spillway and no gage-height record, which are fair. Flow regulated by Gunnison Reservoir, capacity 18,200 acre-ft (22.4 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	0	.01	.03	5.0	112	62	79	12	37	66	70
2	0	0	.01	.03	6.0	131	97	68	12	38	67	70
3	0	0	.01	.03	6.5	150	100	57	12	42	67	70
4	0	0	.01	.03	7.0	168	150	50	12	40	67	70
5	0	0	.01	.03	18	222	155	46	12	42	66	70
6	0	0	.02	.03	23	314	135	41	12	47	66	70
7	0	0	.02	.03	35	372	105	38	14	47	64	68
8	0	0	.02	.03	35	410	95	28	18	46	63	67
9	0	0	.02	.03	35	442	95	7.3	18	52	66	67
10	0	0	.02	.03	35	494	95	7.7	23	61	71	67
11	0	0	.02	.04	59	494	97	7.7	33	64	71	66
12	0	0	.02	.04	77	512	97	7.7	37	63	71	64
13	0	0	.02	.04	91	494	97	7.7	38	63	71	66
14	0	.01	.02	.04	106	494	97	7.7	38	63	71	66
15	0	.01	.02	.04	99	470	97	7.7	18	63	70	66
16	0	.01	.02	.04	99	363	100	7.7	9.8	66	70	66
17	0	.01	.02	.04	99	277	100	2.7	5.1	66	71	22
18	0	.01	.02	.04	99	397	100	.10	.34	64	70	.06
19	0	.01	.02	.04	99	332	100	.13	.34	66	68	.06
20	0	.01	.02	.04	99	242	100	11	.34	67	68	.06
21	0	.01	.02	.04	106	172	100	18	.34	67	68	.07
22	0	.01	.02	.04	106	143	100	25	4.3	66	70	.07
23	0	.01	.02	.04	106	153	95	29	9.0	67	70	.07
24	0	.01	.03	.04	106	153	95	40	9.0	67	70	.07
25	0	.01	.03	.04	112	164	95	41	15	66	70	.07
26	0	.01	.03	.04	112	164	93	38	25	64	70	.07
27	0	.01	.03	.04	112	131	90	24	28	66	71	.07
28	0	.01	.03	.04	112	54	90	16	33	68	71	.07
29	0	.01	.03	.04	-----	19	90	11	35	66	70	.07
30	0	.01	.03	.04	-----	23	87	11	34	66	70	.07
31	0	-----	.03	.04	-----	23	-----	11	-----	67	71	-----
TOTAL	14	.17	.65	1.14	2,009.5	8,089	3,009	746.13	517.56	1,827	2,135	1,105.88
MEAN	.45	.006	.021	.037	71.8	261	100	24.1	17.3	58.9	68.9	36.9
MAX	14	.01	.03	.04	112	512	155	79	38	68	71	70
MIN	0	0	.01	.03	5.0	19	62	.10	.34	37	63	.06
AC-FT	28	.3	1.3	2.3	3,990	16,040	5,970	1,480	1,030	3,620	4,230	2,190

CAL YR 1973 TOTAL 16,260.62 MEAN 44.5 MAX 190 MIN 0 AC-FT 32,250
WTR YR 1974 TOTAL 19,455.03 MEAN 53.3 MAX 512 MIN 0 AC-FT 38,590

NOTE.--No gage-height record Oct. 2 to Apr. 23.

SEVIER LAKE BASIN

263

10216400 Twelvemile Creek near Mayfield, Utah

LOCATION.--Lat 39°06'02", long 111°38'44", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.1, T.20 S., R.2 E., Sanpete County, on right bank 0.1 mile (0.2 km) east of Manti-LaSal Forest boundary, 0.5 mile (0.8 km) downstream from Clear Creek, and 3.5 miles (5.6 km) east of Mayfield.

DRAINAGE AREA.--60 mi² (155 km²), approximately.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m) from topographic map.

AVERAGE DISCHARGE.--15 years, 30.8 ft³/s (0.872 m³/s), 22,310 acre-ft/yr (27.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 268 ft³/s (7.59 m³/s) May 8 (gage height, 2.58 ft or 0.786 m); minimum daily, 7.2 ft³/s (0.20 m³/s) Nov. 23-26.

Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Aug. 10, 1965 (gage height, 4.05 ft or 1.234 m); minimum recorded, 3.0 ft³/s (0.085 m³/s) Feb. 24, 1961.

REMARKS.--Records fair, except those for winter periods, which are poor. No diversion above station. Flow regulated by several small reservoirs at headwaters; combined capacity, about 930 acre-ft (1.15 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	11	13	14	11	14	82	90	32	19	19
2	19	15	12	10	14	10	14	92	87	30	19	19
3	19	14	11	9.0	14	11	13	114	84	27	20	19
4	19	12	10	9.8	14	10	14	113	81	26	19	19
5	19	13	10	11	14	10	14	113	77	25	19	19
6	19	13	10	11	14	11	14	144	75	24	19	19
7	19	15	11	11	14	13	14	156	72	24	19	19
8	19	14	11	11	14	13	14	180	70	23	19	19
9	19	13	11	11	14	13	16	194	67	23	19	19
10	18	13	12	10	14	13	14	200	64	23	19	20
11	18	13	13	11	12	13	14	148	61	22	19	20
12	18	13	13	12	12	13	14	172	58	22	19	20
13	18	12	13	12	12	13	12	178	56	21	19	19
14	17	11	13	12	11	16	15	143	55	21	19	19
15	17	7.9	12	15	12	16	20	146	54	21	19	19
16	16	11	12	14	13	19	25	146	53	23	19	18
17	16	8.2	13	13	12	21	29	136	52	23	19	18
18	15	8.5	13	13	12	19	30	120	51	23	19	18
19	15	8.2	12	13	12	16	28	108	50	24	19	18
20	15	7.2	11	14	10	15	28	97	49	22	20	18
21	15	7.2	12	12	9.0	13	25	88	47	21	19	18
22	15	8.6	12	10	9.0	14	27	82	47	20	19	18
23	15	7.2	12	11	8.5	13	35	76	47	20	19	18
24	15	7.2	12	11	7.8	13	37	73	46	20	19	17
25	13	7.2	12	11	9.0	14	47	74	44	20	19	17
26	14	7.2	11	12	10	15	76	83	42	19	19	17
27	14	7.4	10	12	12	14	55	93	40	19	19	17
28	15	9.3	11	12	12	14	51	94	38	19	19	17
29	15	8.2	13	12	-----	14	55	94	36	19	19	17
30	16	10	14	12	-----	15	61	94	35	19	19	17
31	16	-----	13	15	-----	17	-----	92	-----	19	19	-----
TOTAL	517	317.5	366	365.8	335.3	432	825	3,725	1,728	694	591	551
MEAN	16.7	10.6	11.8	11.8	12.0	13.9	27.5	120	57.6	22.4	19.1	18.4
MAX	19	16	14	15	14	21	76	200	90	32	20	20
MIN	13	7.2	10	9.0	7.8	10	12	73	35	19	19	17
AC-FT	1,030	630	726	726	665	857	1,640	7,390	3,430	1,380	1,170	1,090
CAL YR 1973	TOTAL 15,823.4	MEAN 43.4	MAX 286	MIN 6.0	AC-FT 31,390							
WTR YR 1974	TOTAL 10,447.6	MEAN 28.6	MAX 200	MIN 7.2	AC-FT 20,720							

PEAK DISCHARGE (BASE, 250 CFS).--May 8 (2300) 268 cfs (2.58 ft).

NOTE.--No gage-height record Dec. 2 to Feb. 3.

SEVIER LAKE BASIN

10217000 Sevier River below San Pitch River, near Gunnison, Utah

LOCATION.--Lat 39°09'19", long 111°52'37" in NE¼NE¼SE¼ sec.14, T.19 S., R.1 W., Sanpete County, on left bank 1,000 ft (305 m) downstream from San Pitch River and 3 miles (5 km) west of Gunnison.

DRAINAGE AREA.--4,880 mi² (12,640 km²), approximately.

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft (1,532 m) from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft (0.110 m) higher.

AVERAGE DISCHARGE.--62 years, 224 ft³/s (6.344 m³/s), 162,300 acre-ft/yr (200 km³/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 ft³/s (30.6 m³/s) Mar. 3 (gage height, 5.90 ft or 1.798 m); minimum, 36 ft³/s (1.02 m³/s) July 3.

Period of record: Maximum discharge, 2,620 ft³/s (742 m³/s) June 1, 1922 (gage height, 5.68 ft or 1.731 m); minimum daily, 8 ft³/s (0.23 m³/s) July 13-17, Sept. 6, 1934.

REMARKS.--Records good. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	282	282	294	357	800	392	251	272	41	111	65
2	258	278	282	276	390	1,050	358	285	254	41	125	70
3	234	282	274	256	410	1,030	383	380	219	40	121	87
4	218	304	272	247	414	945	454	354	186	49	115	86
5	207	316	274	256	423	948	477	332	165	52	119	82
6	204	318	278	266	430	971	451	420	143	50	117	89
7	202	326	282	276	455	989	402	428	138	59	115	95
8	205	330	284	286	459	951	365	504	126	81	115	92
9	235	330	284	286	464	900	335	643	121	74	129	82
10	274	330	280	284	478	881	326	816	110	58	107	89
11	268	326	278	274	499	900	334	839	102	58	101	85
12	266	326	288	268	539	923	313	738	104	52	91	94
13	274	328	302	278	569	954	301	673	110	50	72	101
14	290	324	296	282	589	892	298	652	107	49	65	109
15	296	290	290	284	597	969	304	491	109	49	59	128
16	284	270	288	282	604	989	305	541	106	48	48	144
17	286	266	292	310	609	898	298	580	118	48	58	147
18	306	270	304	419	602	789	307	524	125	49	64	138
19	320	282	298	392	607	771	320	453	125	60	65	132
20	302	288	282	379	599	714	310	422	121	92	62	136
21	292	276	276	360	586	639	287	354	112	108	61	140
22	284	272	288	339	584	537	276	296	100	101	56	135
23	278	268	290	324	581	530	270	261	92	110	57	120
24	278	274	292	318	574	501	283	245	101	122	59	108
25	278	278	288	308	571	449	296	248	103	126	66	98
26	276	282	272	314	599	438	296	263	89	118	74	89
27	280	276	266	316	612	433	303	292	81	114	80	103
28	282	266	276	328	657	397	254	324	72	114	74	128
29	282	266	294	330	-----	358	230	320	56	135	64	140
30	370	272	337	332	-----	349	213	298	51	138	54	147
31	282	-----	306	337	-----	393	-----	277	-----	124	62	-----
TOTAL	8,379	8,796	8,895	9,501	14,858	23,288	9,741	13,504	3,718	2,410	2,566	3,259
MEAN	270	293	287	306	531	751	325	436	124	77.7	82.8	109
MAX	370	330	337	419	657	1,050	477	839	272	138	129	147
MIN	202	266	266	247	357	349	213	245	51	40	48	65
AC-FT	16,620	17,450	17,640	18,850	29,470	46,190	19,320	26,790	7,370	4,780	5,090	6,460
CAL YR 1973	TOTAL	136,774	MEAN	375	MAX	1,370	MIN	61	AC-FT	271,300		
WTR YR 1974	TOTAL	108,915	MEAN	298	MAX	1,050	MIN	40	AC-FT	216,000		

10218500 Sevier Bridge Reservoir near Juab, Utah

LOCATION.—Lat 39°22'20", long 112°01'57", in NW 1/4, sec. 1, T. 17 S., R. 2 W., Juab County, at Sevier Bridge Dam on Sevier River, 13 miles (21 km) southwest of Juab.

DRAINAGE AREA.—5,120 sq mi (13,260 km²), approximately.

PERIOD OF RECORD.—January 1914 to current year.

GAGE.—Staff gage below gage height 60 ft (18 m) and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft (1,504.953 m) above mean sea level (levels by Coast and Geodetic Survey).

EXTREMES.—Current year: Maximum contents observed, 235,100 acre-ft (290 hm³) Apr. 7-9 (gage height, 79.9 ft or 24.35 m); minimum contents observed, 97,780 acre-ft (121 hm³) Sept. 13, 16 (gage height, 61.3 ft or 18.68 m).
Period of record: Maximum contents, 251,000 acre-ft (310 hm³) Apr. 19, 20, 1922 (gage height, 80.0 ft or 24.38 m), from former capacity table; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

REMARKS.—Reservoir was formed by a 30-ft (9 m) earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft (27 m) by June 1916. Capacity, 236,000 acre-ft (291 hm³) between gage heights 6.0 ft (1.83 m) (approximate bottom of outlet tunnel) and 80.0 ft (24.38 m) (top of flashboard on spillway). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

(Capacity table - elevation in feet and contents in acre-feet)
(Based on field survey by Soil Conservation Service in 1961)

60	92,770	72	161,300
62	100,600	75	186,500
65	114,900	78	215,100
68	132,600	80	236,100
70	146,200		

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123,900	139,200	157,500	175,300	194,700	224,400	234,000	227,600	200,400	159,000	128,800	102,000
2	124,500	139,900	158,200	176,100	195,700	225,400	234,000	226,500	199,500	157,500	128,200	102,400
3	124,500	140,600	159,000	176,900	196,600	229,700	234,000	225,400	198,500	155,900	127,600	102,000
4	124,500	141,300	159,000	176,900	197,600	230,800	234,000	224,400	196,600	152,900	126,300	101,500
5	125,100	142,000	159,800	177,800	198,500	230,800	234,000	224,400	195,700	150,700	125,700	101,100
6	125,700	142,700	160,600	178,700	198,500	231,900	234,000	223,400	194,700	147,700	125,700	100,200
7	125,700	143,400	160,600	178,700	199,500	231,900	235,100	223,400	192,900	146,200	125,100	100,200
8	126,300	144,100	161,300	179,500	200,400	231,900	235,100	222,300	191,100	144,800	122,800	100,600
9	126,300	144,800	161,300	179,500	200,400	231,900	235,100	221,300	190,200	144,100	121,000	99,830
10	126,900	145,500	162,100	180,400	201,400	231,900	234,000	221,300	189,300	142,700	120,400	99,830
11	127,600	146,200	162,900	180,400	202,300	231,900	234,000	221,300	187,500	141,300	120,400	99,010
12	128,200	147,000	162,900	181,300	203,300	230,800	234,000	221,300	185,700	139,900	119,300	98,600
13	128,800	147,700	163,700	181,300	205,200	230,800	232,900	220,300	185,700	139,200	118,200	97,780
14	129,400	148,400	164,600	182,200	206,200	230,800	234,000	219,200	184,800	137,900	117,100	98,600
15	130,100	149,200	165,400	183,000	208,100	230,800	234,000	217,200	183,900	137,200	116,600	98,190
16	130,700	149,200	166,200	183,900	209,100	232,900	234,000	216,100	183,000	137,200	115,500	97,780
17	131,300	149,900	167,000	183,900	211,100	234,000	234,000	215,100	181,300	136,500	114,400	98,600
18	131,900	150,700	167,800	184,800	212,100	234,000	234,000	214,100	180,400	135,900	113,900	99,010
19	132,600	151,400	167,800	185,700	213,100	234,000	234,000	213,100	179,500	135,200	112,900	99,010
20	133,200	151,400	168,600	186,500	214,100	234,000	234,000	212,100	178,700	134,600	110,800	99,010
21	133,900	152,100	169,400	186,500	215,100	234,000	234,000	211,100	176,900	133,900	109,800	99,010
22	134,600	152,100	169,400	187,500	216,100	234,000	234,000	211,100	176,100	132,600	109,300	99,010
23	135,200	152,900	170,200	189,300	217,200	234,000	234,000	210,100	175,300	131,300	108,900	99,010
24	135,200	153,600	170,200	190,200	218,200	234,000	232,900	209,100	175,300	131,300	108,400	99,420
25	135,900	154,400	171,100	191,100	218,200	234,000	232,900	207,100	173,600	130,700	107,900	99,830
26	136,500	154,400	171,900	191,100	220,300	232,900	231,900	207,100	171,100	130,100	106,500	99,830
27	137,200	155,100	171,900	192,000	221,300	232,900	229,700	206,200	167,000	130,100	105,000	100,200
28	137,900	155,900	172,700	192,000	222,300	232,900	229,700	205,200	164,600	129,400	104,200	100,200
29	137,900	156,700	173,600	192,900	-----	232,900	229,700	204,200	161,300	129,400	103,700	100,600
30	138,500	157,500	173,600	192,900	-----	232,900	228,600	203,300	160,600	129,400	103,300	100,600
31	139,200	-----	174,400	193,800	-----	234,000	-----	201,400	-----	128,800	102,800	-----
MAX	139,200	157,500	174,400	193,800	222,300	234,000	235,100	227,600	200,400	159,000	128,800	102,400
MIN	123,900	139,200	157,500	175,300	194,700	224,400	228,600	201,400	160,600	128,800	102,800	97,780
(†)	69.0	71.5	73.6	75.8	78.7	79.8	79.3	76.6	71.9	67.4	62.5	62.0
(‡)	+15,800	+18,300	+16,900	+19,400	+28,500	+11,700	-5,400	-27,200	-40,800	-31,800	-26,000	-2,200
CAL YR 1973	\$ +76,210											
WTR YR 1974	\$ -22,800											

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

‡ Change in contents, in acre-feet.

SEVIER LAKE BASIN

10219000 Sevier River near Juab, Utah

LOCATION.—Lat 39°22'29", long 112°02'20", in SE¼SW¼SE¼ sec.35, T.16 S., R.2 W., Juab County, on right bank 0.5 mile (0.8 km) downstream from Sevier Bridge Dam and 12 miles (19 km) southwest of Juab.

DRAINAGE AREA.—5,120 mi² (13,260 km²), approximately.

PERIOD OF RECORD.—September 1911 to current year.

GAGE.—Water-stage recorder and rubble masonry control since Apr. 16, 1914. Altitude of gage is 4,940 ft (1,506 m) by barometer. Prior to Apr. 16, 1914, staff gage 500 ft (152 m) upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft (396 m) upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

AVERAGE DISCHARGE.—63 years, 226 ft³/s (6.400 m³/s), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 1,180 ft³/s (33.4 m³/s) March 8, 9 (gage height, 4.55 ft or 1.387 m); minimum, 4.4 ft³/s (0.125 m³/s) Sept. 29, 30.

Period of record: Maximum discharge, 2,140 ft³/s (60.6 m³/s) June 2, 1922 (gage height, 8.50 ft or 2.591 m); practically no flow at times when reservoir gates were closed.

REMARKS.—Records good. No diversion between station near Gunnison and this station. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	7.7	7.2	8.3	11	35	223	664	791	1,110	285	245
2	62	7.4	7.4	8.3	11	33	245	663	788	1,110	284	249
3	62	8.0	7.4	8.9	10	167	237	655	790	1,110	282	247
4	51	8.1	7.4	8.9	11	580	278	652	788	979	279	249
5	42	8.1	7.4	8.9	30	845	312	650	785	864	278	252
6	23	7.4	7.3	8.8	41	1,050	309	643	784	861	472	251
7	7.0	7.4	6.7	9.5	41	886	398	643	787	741	532	252
8	7.0	7.4	6.7	9.7	40	1,130	494	640	781	654	491	255
9	7.4	7.4	6.7	9.7	37	1,180	538	635	778	653	491	255
10	7.4	7.4	6.7	9.3	37	1,020	529	937	776	652	485	258
11	7.6	7.4	6.8	8.9	35	1,060	527	1,110	774	652	481	259
12	7.4	7.0	6.7	8.9	19	985	380	1,120	652	531	653	261
13	7.1	6.7	7.3	9.6	15	876	216	1,130	527	414	745	151
14	7.0	6.3	7.4	9.7	15	586	178	1,120	526	394	742	55
15	7.2	6.1	7.4	9.7	14	427	181	1,130	526	394	737	56
16	7.4	6.2	7.4	9.7	15	452	182	1,050	528	395	611	58
17	7.4	6.4	7.7	11	16	727	184	895	527	394	439	58
18	7.4	6.9	8.1	9.9	16	920	208	895	527	391	442	60
19	7.4	7.3	8.1	9.9	17	940	306	896	525	391	528	62
20	7.4	7.4	8.1	10	18	782	308	837	525	388	654	61
21	7.4	7.4	8.2	10	19	627	303	788	524	388	496	36
22	7.4	7.4	9.6	9.7	21	618	395	789	719	332	315	11
23	7.5	7.4	8.9	9.7	22	596	455	788	887	297	314	9.7
24	7.4	7.4	8.1	10	24	577	446	789	1,040	296	316	9.7
25	6.7	7.4	8.1	10	26	522	439	794	1,130	293	423	7.4
26	6.8	7.9	7.5	10	27	378	432	793	1,130	295	520	5.4
27	7.4	7.6	7.4	10	32	330	425	792	1,130	293	520	5.4
28	7.4	7.2	8.1	10	33	260	421	790	1,120	292	426	5.2
29	7.4	6.7	8.3	10	-----	214	582	794	1,120	290	362	4.8
30	7.4	6.7	8.5	10	-----	200	671	796	1,110	287	344	4.7
31	7.4	-----	8.1	11	-----	198	-----	794	-----	287	276	-----
TOTAL	484.3	217.1	236.7	298.0	653	19,201	10,802	25,672	23,395	16,428	14,223	3,693.3
MEAN	15.6	7.24	7.64	9.61	23.3	619	360	828	780	530	459	123
MAX	62	8.1	9.6	11	41	1,180	671	1,130	1,130	1,110	745	261
MIN	6.7	6.1	6.7	8.3	10	33	178	635	524	287	276	4.7
AC-FT	961	431	469	591	1,300	38,090	21,430	50,920	46,400	32,580	28,210	7,330
CAL YR 1973	TOTAL	93,818.3	MEAN	257	MAX	1,170	MIN	2.0	AC-FT	186,100		
WTR YR 1974	TOTAL	115,303.4	MEAN	316	MAX	1,180	MIN	4.7	AC-FT	228,700		

10219200 Chicken Creek near Levan, Utah

LOCATION.—Lat 39°33'03", long 111°49'42", in NW¼NE¼SW¼ sec.33, T.14 S., R.1 E., Juab County, on right bank 120 ft (37 m) downstream from county road bridge, 250 ft (76 m) upstream from diversion structure, 0.4 mile (0.6 km) upstream from mouth of canyon, and 1.5 miles (2.4 km) east of Levan.

DRAINAGE AREA.—27.9 mi² (72.3 km²).

PERIOD OF RECORD.—October 1962 to current year.

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

AVERAGE DISCHARGE.—12 years, 6.47 ft³/s (0.183 m³/s), 4,690 acre-ft/yr (5.78 hm³/yr).

EXTREMES.—Current year: Maximum discharge, about 60 ft³/s (1.70 m³/s) May 9 or 10; minimum, 0.75 ft³/s (0.023 m³/s) Jan. 2. Period of record: Maximum discharge, 268 ft³/s (7.59 m³/s) Aug. 1, 1968 (gage height, 7.55 ft or 2.301 m), from rating curve extended above 58 ft³/s (1.64 m³/s) on basis of logarithmic plotting; no flow Feb. 11, 14, 1966.

REMARKS.—Records good, except those for period April 26 to May 12, which are fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.8	3.1	2.2	2.5	3.6	9.3	33	18	7.0	6.5	3.1
2	4.4	3.8	3.2	1.7	2.4	4.6	9.1	38	17	6.8	5.8	3.1
3	4.4	3.9	3.0	.94	2.4	4.7	8.5	40	17	7.0	6.0	3.0
4	4.5	3.6	3.0	1.0	2.2	4.2	8.2	43	16	6.7	5.4	3.0
5	4.4	3.6	2.8	1.4	2.5	4.0	8.5	45	16	6.5	5.2	3.0
6	4.4	3.7	2.6	1.7	2.1	4.3	8.9	46	15	6.3	5.1	3.0
7	4.4	3.7	3.0	2.5	2.5	4.7	8.8	48	15	6.2	5.0	2.9
8	4.6	3.6	2.8	2.4	1.7	5.0	9.1	50	15	6.0	5.1	2.8
9	5.3	3.4	2.8	2.3	1.7	4.9	9.9	52	14	6.0	5.0	2.8
10	5.0	3.4	2.7	2.3	1.6	5.6	9.3	48	13	5.8	4.9	2.7
11	4.8	3.5	2.8	2.1	1.8	5.9	8.8	48	13	5.7	4.8	2.8
12	4.6	3.4	2.8	2.4	2.2	6.3	9.1	46	12	5.5	4.6	2.9
13	4.5	3.3	2.8	2.3	2.6	7.1	8.5	44	12	5.3	4.7	2.9
14	4.4	3.2	2.8	2.3	2.5	7.7	10	41	11	5.1	4.6	3.0
15	4.4	3.2	2.7	2.3	2.6	8.9	13	38	11	5.4	4.7	3.0
16	4.2	3.2	2.6	2.5	2.8	11	19	36	10	5.6	4.6	2.9
17	4.2	3.1	2.7	3.1	3.0	13	25	35	9.5	5.4	4.3	2.8
18	4.2	3.2	2.8	2.8	2.8	13	26	33	9.4	5.3	4.0	2.8
19	4.2	3.2	2.6	2.8	2.9	10	24	31	10	5.2	4.0	2.8
20	4.2	3.1	2.5	2.8	3.1	9.1	22	31	9.6	6.6	3.8	2.8
21	4.3	3.1	2.6	2.9	2.7	8.2	21	29	9.6	6.3	3.6	2.7
22	4.2	2.9	2.8	2.5	2.9	7.8	25	28	9.2	5.7	3.6	2.7
23	4.3	3.0	2.8	2.7	2.6	7.5	30	26	8.8	5.5	3.5	2.6
24	4.1	2.9	2.9	2.6	2.4	7.2	33	25	8.5	5.3	3.4	2.6
25	4.1	2.9	2.7	2.5	2.8	7.5	37	24	8.1	5.4	3.4	2.6
26	4.0	3.0	1.8	2.7	3.1	8.2	40	23	7.8	5.3	3.3	2.8
27	3.9	2.8	2.1	2.6	3.1	8.3	38	22	7.9	5.1	3.2	2.8
28	3.9	2.8	2.8	2.6	3.3	8.5	34	21	7.6	4.9	3.2	2.8
29	3.9	3.0	2.9	2.6	-----	8.3	31	20	7.4	4.7	3.2	2.8
30	3.9	3.0	2.9	2.4	-----	8.9	28	19	7.2	4.7	3.2	2.8
31	3.9	-----	2.3	2.4	-----	10	-----	19	-----	5.9	3.1	-----
TOTAL	134.0	98.3	84.7	72.34	70.8	228.0	572.0	1,082	345.6	178.2	134.8	85.3
MEAN	4.32	3.28	2.73	2.33	2.53	7.35	19.1	34.9	11.5	5.75	4.35	2.84
MAX	5.3	3.9	3.2	3.1	3.3	13	40	52	18	7.0	6.5	3.1
MIN	3.9	2.8	1.8	.94	1.6	3.6	8.2	19	7.2	4.7	3.1	2.6
AC-FT	266	195	168	143	140	452	1,130	2,150	685	353	267	169

CAL YR 1973 TOTAL 4,586.70 MEAN 12.6 MAX 138 MIN 1.5 AC-FT 9,100
WTR YR 1974 TOTAL 3,086.04 MEAN 8.45 MAX 52 MIN .94 AC-FT 6,120

PEAK DISCHARGE (BASE, 50 CFS).—May 9 or 10 (time unknown) about 60 cfs.

LOCATION.—Lat 39°28'55", long 112°23'35", in SE¹SW⁴SE⁴ sec. 27, T.15 S., R.5 W., Millard County, on right bank 1.5 miles (2.4 km) downstream from highway bridge and 3.5 miles (5.6 km) southwest of Lynndvl.

DRAINAGE AREA.—6,270 mi² (16,240 km²), approximately.

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.—Water-stage recorder. Altitude of gage is 4,660 ft (1,420 m) by barometer.

AVERAGE DISCHARGE.—37 years, 187 ft³/s (5.296 m³/s), 135,500 acre-ft/yr (167 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 1,030 ft³/s (29.2 m³/s) Mar. 11 (gage height, 7.39 ft or 2.252 m); minimum, 9.5 ft³/s (0.27 m³/s) Dec. 8, 27.

Period of record: Maximum discharge, 2,980 ft³/s (84.4 m³/s) Feb. 10, 1962 (gage height, 11.73 ft or 3.575 m); minimum observed, 3.9 ft³/s (0.11 m³/s) Jan. 22, 1963 (discharge measurement).

REMARKS.—Records good. No water pumped from well into the river 1 mile (2 km) above station. Flow regulated by Sevier Bridge Reservoir about 35 miles (56 km) upstream (see station 10218500). Several diversions for irrigation between reservoir and station. Records of chemical analysis and water temperatures for the water year 1974 will be published in part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	61	17	13	15	24	114	625	474	848	116	130
2	77	61	19	15	16	115	114	614	478	817	121	96
3	77	65	20	15	15	308	138	609	483	802	119	95
4	79	67	18	15	16	101	130	604	488	796	107	97
5	79	67	18	15	16	264	134	588	498	788	104	101
6	73	65	18	15	17	589	202	502	523	626	102	99
7	74	64	18	15	24	748	216	475	528	583	134	100
8	79	62	18	15	80	823	242	431	520	545	327	98
9	65	61	18	15	80	865	382	422	526	440	302	99
10	63	60	17	15	82	970	457	416	550	427	289	98
11	66	60	16	15	82	1,010	472	477	546	413	286	96
12	67	61	16	15	84	916	442	720	558	410	300	97
13	66	59	15	15	66	999	405	801	514	372	350	97
14	64	59	15	15	34	851	242	821	378	258	500	99
15	61	58	15	15	37	703	159	873	364	243	516	63
16	64	58	15	15	34	445	146	883	355	254	512	57
17	62	58	14	15	29	452	142	899	356	254	470	39
18	62	61	14	15	38	556	143	771	352	247	273	36
19	62	65	14	15	23	731	161	700	337	242	248	36
20	63	63	14	15	20	744	237	707	324	250	253	33
21	63	61	14	15	17	691	282	694	319	245	354	40
22	63	60	14	15	16	502	284	626	301	238	339	53
23	63	63	14	15	15	474	316	615	368	225	146	62
24	58	47	14	15	16	455	398	593	584	170	131	41
25	57	26	14	15	16	446	402	586	645	169	130	33
26	58	24	14	15	14	398	400	567	782	171	148	32
27	58	23	14	15	14	310	382	560	860	159	273	30
28	57	22	14	15	16	217	382	520	848	153	300	29
29	58	21	14	15	-----	190	398	505	843	141	286	30
30	61	18	15	15	-----	134	490	492	852	122	185	36
31	60	-----	15	15	-----	122	-----	486	-----	117	167	-----
TOTAL	2,032	1,600	485	463	932	16,153	8,412	19,182	15,554	11,525	7,888	2,052
MEAN	65.5	53.3	15.6	14.9	33.3	521	280	619	518	372	254	68.4
MAX	79	67	20	15	84	1,010	490	899	860	848	516	130
MIN	57	18	14	13	14	24	114	416	301	117	102	29
AC-FT	4,030	3,170	962	918	1,850	32,040	16,690	38,050	30,850	22,860	15,650	4,070
CAL YR 1973	TOTAL 73,902		MEAN 202	MAX 883	MIN 12	AC-FT 146,600						
WTR YR 1974	TOTAL 86,278		MEAN 236	MAX 1,010	MIN 13	AC-FT 171,100						

SEVIER LAKE BASIN

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10224100 Oak Creek above Little Creek, near Oak City, Utah

LOCATION.--Lat 39°21'23", long 112°13'55", in NE¼NE¼NW¼ sec. 7, T.17 S., R.3 W., Millard County, Fish Lake National Forest, on right bank 0.3 mile (0.5 km) upstream from a 12-inch (0.30 m) pipeline diversion at Walker's Fork and 6.5 miles (10.5 km) east of Oak City.

DRAINAGE AREA.--5.58 mi² (14.45 km²).

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

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

AVERAGE DISCHARGE.--10 years, 2.68 ft³/s (0.0759 m³/s), 1,940 acre-ft/yr (2.39 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9.2 ft³/s (0.261 m³/s) May 9 (gage height, 1.28 ft or 0.390 m); minimum discharge, 0.24 ft³/s (0.007 m³/s) Jan 3.

Period of record: Maximum discharge, 120 ft³/s (3.40 m³/s) Apr. 29, 1973 (gage height, 2.21 ft or 0.674 m); minimum, 0.03 ft³/s (0.001 m³/s) Dec. 31, 1967, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	.72	.83	.90	.98	1.2	3.1	8.0	3.3	.68	.55	.35
2	.66	.78	.91	.90	.98	1.3	3.1	8.3	3.2	.69	.53	.35
3	.68	.99	.90	.90	.98	1.3	3.1	8.2	3.0	.70	.51	.35
4	.68	.96	.88	.90	.98	1.3	3.1	8.3	2.8	.68	.50	.35
5	.68	.96	.87	.98	.98	1.3	3.1	8.3	2.7	.67	.50	.36
6	.68	.82	.86	.98	.98	1.3	3.0	8.3	2.5	.65	.49	.36
7	.68	.82	.85	.98	.98	1.3	2.9	8.3	2.4	.65	.49	.35
8	.77	.79	.82	.98	.98	1.3	2.9	8.4	2.3	.65	.49	.34
9	.94	.79	.80	.98	.98	1.4	3.0	8.7	2.2	.64	.45	.34
10	.95	.78	.78	1.0	.98	1.4	3.1	9.1	1.9	.63	.43	.34
11	.89	.78	.79	1.0	.98	1.5	3.1	9.1	1.8	.62	.41	.35
12	.83	.73	.84	.98	.98	1.5	3.1	8.9	1.7	.61	.40	.38
13	.83	.67	.93	.98	.98	1.5	3.1	8.6	1.6	.59	.40	.39
14	.83	.69	.94	.97	.98	1.6	3.1	8.2	1.5	.58	.39	.40
15	.83	.70	.94	.98	.98	1.6	3.1	7.7	1.5	.61	.38	.40
16	.82	.69	.93	.98	.98	1.6	4.8	7.7	1.5	.62	.38	.38
17	.82	.68	.90	.98	.98	2.1	5.9	7.2	1.4	.58	.37	.37
18	.82	.76	.90	.98	.98	3.1	6.9	6.6	1.3	.55	.37	.37
19	.82	.79	.90	.98	.98	3.1	7.1	6.3	1.3	.57	.36	.37
20	.82	.73	.90	.98	.98	3.1	7.1	6.1	1.2	.60	.38	.34
21	.82	.78	.90	.98	.98	3.1	7.1	5.5	1.1	.55	.38	.33
22	.82	.80	.90	.98	.98	3.1	7.1	5.2	1.1	.52	.38	.30
23	.72	.80	.90	.98	.98	3.0	7.6	4.8	1.0	.52	.37	.30
24	.72	.81	.90	.98	.98	2.9	8.0	4.4	.96	.53	.37	.30
25	.72	.82	.90	.98	.98	2.7	8.3	4.0	.89	.53	.37	.30
26	.72	.83	.90	.98	.98	2.8	8.4	3.7	.86	.52	.36	.30
27	.72	.87	.90	.98	1.0	2.8	8.7	3.6	.80	.50	.36	.32
28	.72	.78	.90	.98	1.1	2.8	8.3	3.5	.77	.46	.36	.32
29	.72	.82	.90	.98	-----	2.7	8.2	3.4	.74	.50	.36	.35
30	.72	.82	.90	.98	-----	2.9	8.1	3.6	.71	.49	.35	.35
31	.72	-----	.90	.98	-----	3.1	-----	3.5	-----	.64	.35	-----
TOTAL	23.81	23.76	27.37	30.09	27.58	65.7	157.5	205.5	50.03	18.33	12.79	10.41
MEAN	.77	.79	.88	.97	.99	2.12	5.25	6.63	1.67	.59	.41	.35
MAX	.95	.99	.94	1.0	1.1	3.1	8.7	9.1	3.3	.70	.55	.40
MIN	.66	.67	.78	.90	.98	1.2	2.9	3.4	.71	.46	.35	.30
AC-FT	47	47	54	60	55	130	312	408	99	36	25	21

CAL YR 1973 TOTAL 1,936.22 MEAN 5.30 MAX 73 MIN .61 AC-FT 3,840
WTR YR 1974 TOTAL 652.87 MEAN 1.79 MAX 9.1 MIN .30 AC-FT 1,290

PEAK DISCHARGE (BASE, 10 CFS). No peak above base.

PAVANT VALLEY

10233000 Meadow Creek near Meadow, Utah

LOCATION.—Lat 38°53'29", long 112°19'36", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.17, T.22 S., R.4 W., Millard County, 0.6 mile (1.0 km) upstream from Fishlake National Forest boundary and 4.5 miles (7.2 km) east of Meadow.

DRAINAGE AREA.—11.6 mi² (30.0 km²).

PERIOD OF RECORD.—May to July 1914, August 1965 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 5,800 ft (1,768 m) from topographic map. Nonrecording gage May 7 to July 16, 1914, at site about 0.5 mile (0.8 km) upstream at different datum.

AVERAGE DISCHARGE.—9 years, 6.94 ft³/s (0.197 m³/s), 5,030 acre-ft/yr (6.20 hm³/yr).

EXTREMES.—Current year: Maximum recorded discharge, 80 ft³/s (2.27 m³/s) May 8 (gage height, 1.73 ft or 0.527 m); minimum recorded, 0.88 ft³/s (0.025 m³/s) Dec. 19, result of freezeup.

Period of record: Maximum discharge, 198 ft³/s (5.61 m³/s) May 11, 1973 (gage height, 2.51 ft or 0.765 m); minimum, 0.33 ft³/s (0.009 m³/s) Dec. 20, 1967, result of freezeup.

REMARKS.—Records fair, except those for winter period and periods of no gage-height record, which are poor. No diversion or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.2	2.6	1.8	2.8	5.4	8.6	41	21	8.7	6.7	2.1
2	2.8	2.2	2.8	1.5	2.3	5.4	9.1	47	19	8.5	6.4	2.1
3	3.1	2.4	2.3	1.4	2.2	4.5	8.1	52	19	8.2	6.2	2.2
4	3.0	2.1	2.3	1.4	2.2	3.5	7.9	55	18	8.0	6.0	2.1
5	2.9	2.2	2.3	1.6	2.1	2.9	7.6	57	18	7.8	5.8	2.2
6	2.8	2.6	2.3	1.8	2.1	3.6	7.7	60	19	7.6	5.5	2.0
7	2.8	2.7	2.4	2.1	2.0	4.5	8.0	65	18	7.4	5.5	2.0
8	3.4	2.5	2.4	2.0	2.0	4.5	8.7	72	17	7.3	5.3	1.9
9	4.0	2.3	2.4	1.7	2.0	4.5	11	70	16	7.0	5.3	1.8
10	3.3	2.2	2.2	1.5	2.0	4.5	12	63	16	6.8	5.2	1.7
11	4.0	2.2	2.5	1.5	2.2	5.2	11	56	15	6.6	4.8	2.0
12	3.9	2.2	2.4	1.5	2.6	5.8	11	48	15	6.4	4.6	2.3
13	3.7	2.4	2.5	2.0	3.0	6.3	11	41	14	6.3	4.4	2.4
14	3.4	2.2	2.3	2.6	3.0	7.0	11	37	14	6.2	4.2	2.5
15	3.2	2.0	1.9	3.0	3.0	8.0	12	34	14	6.2	4.2	2.5
16	3.1	2.2	2.1	3.2	3.0	9.3	15	33	13	6.4	4.0	2.2
17	2.8	2.3	2.0	3.5	2.8	11	20	32	13	6.8	3.9	1.9
18	2.8	2.5	2.2	3.0	2.7	9.0	25	29	13	6.8	3.7	2.0
19	2.5	2.9	2.1	3.2	2.7	7.7	24	27	12	6.7	3.5	2.0
20	2.5	2.0	1.9	2.2	2.7	6.9	22	25	12	7.8	3.7	1.9
21	2.5	2.2	2.1	2.0	2.7	6.0	21	22	12	7.6	3.7	1.9
22	2.3	2.2	2.2	2.0	2.7	6.4	23	20	11	7.6	3.3	1.8
23	2.5	2.2	2.4	2.0	2.7	7.0	29	18	11	7.6	3.2	1.9
24	2.5	2.2	2.3	2.4	2.7	7.8	34	16	11	7.6	3.0	1.9
25	2.5	1.8	2.2	2.5	2.7	8.2	37	17	10	7.6	2.9	1.8
26	2.5	2.0	2.0	2.5	3.0	8.8	40	19	10	7.6	2.8	1.9
27	2.3	2.4	2.3	2.5	3.6	8.9	36	22	9.8	7.4	2.6	2.3
28	2.3	2.7	2.4	2.5	5.4	8.6	32	27	9.5	7.1	2.5	2.6
29	2.4	2.6	2.5	2.5	-----	8.5	32	25	9.2	6.7	2.4	2.4
30	2.1	2.5	2.4	2.5	-----	8.9	35	23	9.0	6.7	2.2	2.3
31	2.2	-----	2.1	2.7	-----	9.0	-----	22	-----	6.9	2.2	-----
TOTAL	88.8	69.1	70.8	68.6	74.9	207.6	569.7	1,175	418.5	223.9	129.7	62.6
MEAN	2.86	2.30	2.28	2.21	2.68	6.70	19.0	37.9	14.0	7.22	4.18	2.09
MAX	4.0	2.9	2.8	3.5	5.4	11	40	72	21	8.7	6.7	2.6
MIN	2.1	1.8	1.9	1.4	2.0	2.9	7.6	16	9.0	6.2	2.2	1.7
AC-FT	176	137	140	136	149	412	1,130	2,330	830	444	257	124
CAL YR 1973	TOTAL 4,292.1		MEAN 11.8		MAX 117	MIN 1.8	AC-FT 8,510					
WTR YR 1974	TOTAL 3,159.2		MEAN 8.66		MAX 72	MIN 1.4	AC-FT 6,270					

PEAK DISCHARGE (BASE, 12 CFS).—May 8 (2200) 80 cfs (1.73 ft).

NOTE.—No gage-height record Jan. 29 to Mar. 25 and May 9 to July 18.

10233500 Corn Creek near Kanosh, Utah

LOCATION.--Lat 38°46'27", long 112°23'56", in NE¼NW¼NE¼ sec.34, T.23 S., R.5 W., Millard County, 0.1 mile (0.2 km) upstream from boundary of Fishlake National Forest, 1 mile (1.6 km) upstream from flood-control reservoir and 2.7 miles (4.3 km) southeast of Kanosh.

DRAINAGE AREA.--87.0 mi² (225.3 km²).

PERIOD OF RECORD.--May to July 1914, August 1965 to current year. Annual maximum only July 1959 to July 1965 at crest-stage site.

GAGE.--Water-stage recorder. Altitude of gage is 5,300 ft (1,615 m) from topographic map. May to July 1914, nonrecording gage at site 2 miles (3 km) above Kanosh at different datum; July 1959 to July 1965, crest-stage gage at site 50 ft (15 m) downstream at 10.26 ft (3.127 m) lower datum.

AVERAGE DISCHARGE.--9 years, 16.8 ft³/s (0.478 m³/s), 12,170 acre-ft/yr (15.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 242 ft³/s (6.85 m³/s) probably occurred May 7 (gage height, 2.37 ft or 0.722 m); minimum daily, 7.4 ft³/s (0.21 m³/s) Jan. 3, 4.

Period of record: Maximum discharge, 654 ft³/s (18.5 m³/s) Apr. 29, 1973 (gage height, 4.02 ft or 1.225 m), from rating curve extended on basis of slope-area determination at 5.48 ft (1.670 m); minimum recorded, 2.5 ft³/s (0.071 m³/s) Dec. 20, 1967.

A stage of 5.48 ft (1.670 m), from high-water mark, occurred July 18, 1965, discharge 1,350 ft³/s (38.2 m³/s) by slope-area measurement of peak flow.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	11	12	9.0	11	16	40	100	45	20	15	12
2	10	11	12	7.6	11	26	44	110	44	20	15	12
3	9.9	12	12	7.4	10	25	40	120	42	20	15	12
4	10	12	12	7.4	11	21	38	138	41	19	14	12
5	9.9	12	12	8.0	11	20	38	150	43	19	14	12
6	10	11	11	9.0	11	25	39	160	45	19	14	12
7	10	11	11	9.5	10	26	40	170	41	19	14	12
8	11	11	11	9.5	9.8	24	43	164	38	19	14	12
9	12	11	11	9.0	9.8	23	47	160	36	19	14	12
10	11	11	11	8.4	9.8	23	52	158	34	19	13	12
11	11	10	11	8.4	10	25	54	153	33	18	13	12
12	11	11	11	8.8	9.9	28	50	141	32	18	13	12
13	11	11	11	8.8	10	31	51	134	31	18	13	12
14	10	10	11	8.8	9.8	33	54	117	29	18	13	12
15	10	10	11	9.2	10	39	61	98	26	18	13	11
16	10	10	11	9.8	10	49	70	93	23	19	13	11
17	10	11	11	14	11	63	81	89	21	19	13	11
18	10	11	11	13	11	62	90	85	20	19	13	11
19	11	11	12	12	11	48	86	78	19	18	13	11
20	10	11	11	12	10	30	78	68	18	18	13	11
21	11	10	11	11	11	29	72	58	19	17	13	11
22	11	12	11	10	11	30	80	53	20	17	12	11
23	10	11	11	11	11	31	90	52	20	16	12	11
24	10	12	11	11	11	33	105	53	19	16	12	11
25	10	13	11	11	11	35	115	55	19	16	12	11
26	10	13	11	11	12	37	120	58	19	18	12	11
27	10	12	11	11	12	38	105	62	19	17	12	11
28	11	11	12	11	13	38	94	69	20	16	12	11
29	10	12	11	11	-----	39	92	61	20	16	12	11
30	11	12	11	11	-----	39	94	54	20	16	12	11
31	11	-----	11	11	-----	43	-----	49	-----	15	12	-----
TOTAL	322.2	337	348	309.6	299.1	1,029	2,063	3,110	856	556	405	344
MEAN	10.4	11.2	11.2	9.99	10.7	33.2	68.8	100	28.5	17.9	13.1	11.5
MAX	12	13	12	14	13	63	120	170	45	20	15	12
MIN	9.4	10	11	7.4	9.8	16	38	49	18	15	12	11
AC-FT	639	668	690	614	593	2,040	4,090	6,170	1,700	1,100	803	682

CAL YR 1973 TOTAL 14,009.5 MEAN 38.4 MAX 317 MIN 4.8 AC-FT 27,790
WTR YR 1974 TOTAL 9,978.9 MEAN 27.3 MAX 170 MIN 7.4 AC-FT 19,790

PEAK DISCHARGE (BASE, 30 CFS).--Mar. 17 (1900) 87 cfs (1.51 ft); May 7 (time unknown) 242 cfs (2.37 ft).

NOTE.--No gage-height record Dec. 7 to Jan. 13; Mar. 19 to May 6; Aug. to Sept. 30.

BEAVER RIVER BASIN

10234500 Beaver River near Beaver, Utah

LOCATION.--Lat 38°16'43", long 112°33'32", in NW¼ sec.20, T.29 S., R.6 W., Beaver County, on left bank 300 ft (91 m) downstream from Bakers Canyon and 4.5 miles (7.2 km) east of Beaver.

DRAINAGE AREA.--82 mi² (212 km²), approximately.

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,500 ft (1,981 m) from topographic map. Prior to Mar. 30, 1914, nonrecording gage and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 3,000 ft (914 m) downstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 0.4 mile (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--60 years, 51.1 ft³/s (1.447 m³/s), 37,020 acre-ft/yr (45.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 223 ft³/s (6.32 m³/s) May 10 (gage height, 2.59 ft or 0.789 m); minimum, 2.6 ft³/s (0.074 m³/s) Aug. 2, result of water diverted to powerplant.

Period of record: Maximum discharge, 1,080 ft³/s (30.6 m³/s) July 22, 1936 (gage height, 7.27 ft or 2.216 m, site and datum then in use), from rating curve extended above 500 ft³/s (14.2 m³/s); minimum, 2.6 ft³/s (0.074 m³/s) Aug. 2, 1974, result of water diverted to powerplant.

REMARKS.--Records good. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	19	17	19	23	27	91	134	52	21	15
2	22	19	20	15	19	24	23	103	125	45	20	15
3	22	20	18	17	18	23	27	115	119	39	23	15
4	20	18	18	18	18	21	26	119	115	35	21	15
5	20	17	18	20	18	22	26	121	117	33	21	15
6	21	19	19	20	18	23	27	125	115	31	17	16
7	21	19	19	20	18	23	27	130	113	30	19	16
8	21	18	19	20	18	23	28	153	111	29	20	16
9	23	18	19	19	17	22	29	178	111	28	19	15
10	23	18	18	17	17	22	29	192	109	28	18	14
11	22	18	18	17	18	22	29	189	110	26	18	15
12	22	19	18	19	18	23	27	191	110	26	18	15
13	22	19	18	19	18	24	25	185	113	25	18	15
14	22	17	18	19	18	25	25	168	112	25	18	16
15	22	15	18	19	18	27	24	166	107	26	17	17
16	21	17	18	19	19	30	27	173	104	27	17	17
17	21	19	18	20	18	33	30	166	102	28	17	16
18	21	18	18	20	19	34	42	152	98	28	17	16
19	20	17	18	19	19	32	47	133	94	27	16	16
20	20	19	18	19	19	29	39	121	93	28	16	16
21	20	19	20	18	19	28	35	112	90	28	16	16
22	20	19	19	18	18	28	42	105	90	26	16	16
23	20	19	19	18	18	27	61	100	97	27	16	17
24	20	19	19	18	18	26	75	107	91	26	16	16
25	19	19	19	19	23	28	79	109	82	24	16	16
26	19	19	18	20	26	30	88	119	78	30	16	16
27	19	19	18	19	25	28	71	136	73	25	16	18
28	19	19	19	19	24	26	68	147	69	23	15	16
29	19	19	19	18	-----	24	69	150	63	22	15	16
30	17	19	19	19	-----	27	75	142	57	22	15	16
31	20	-----	19	18	-----	28	-----	137	-----	22	15	-----
TOTAL	639	553	575	577	535	805	1,247	4,335	3,002	891	543	474
MEAN	20.6	18.4	18.5	18.6	19.1	26.0	41.6	140	100	28.7	17.5	15.8
MAX	23	20	20	20	26	34	88	192	134	52	23	18
MIN	17	15	18	15	17	21	23	91	57	22	15	14
AC-FT	1,270	1,100	1,140	1,140	1,060	1,600	2,470	8,600	5,950	1,770	1,080	940

CAL YR 1973 TOTAL 25,260 MEAN 69.2 MAX 429 MIN 12 AC-FT 50,100
WTR YR 1974 TOTAL 14,176 MEAN 38.8 MAX 192 MIN 14 AC-FT 28,120

PEAK DISCHARGE (BASE, 150 CFS).--May 10 (2100) 223 cfs (2.59 ft).

BEAVER RIVER BASIN

273

10235000 South Creek near Beaver, Utah

LOCATION.--Lat 38°11'25", long 112°33'06", in NE¼ sec.20, T.30 S., R.6 W., Beaver County, on right bank at the diversion structure 0.2 mile (0.3 km) upstream from Big Twist Creek and the Yardley Ranch, 1.8 miles (2.9 km) downstream from Fishlake National Forest boundary, and 7.5 miles (12.1 km) southeast of Beaver.

DRAINAGE AREA.--15 mi² (39 km²), approximately.

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

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 6,900 ft (2,103 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 3.37 ft³/s (0.095 m³/s) 2,440 acre-ft/yr (3.01 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14 ft³/s (0.396 m³/s) Apr. 25, May 10, 11 (gage height, 0.86 ft or 0.262 m); minimum discharge, 0.13 ft³/s (0.004 m³/s) Aug. 19, 20.

Period of record: Maximum discharge, about 200 ft³/s (5.66 m³/s) Aug. 1, 1965 (gage height, 1.75 ft or 0.533 m); no flow at times some years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	1.3	1.5	.90	1.3	1.5	2.8	9.6	3.8	.64	.41	.17
2	.66	1.3	1.2	.80	1.1	1.3	2.3	10	3.6	.59	.54	.19
3	.69	1.3	1.1	.80	1.0	1.1	2.5	10	3.5	.50	.57	.19
4	.72	1.1	1.1	.88	.92	1.0	3.1	11	3.3	.49	.42	.19
5	.78	1.3	1.1	.98	.98	1.1	2.9	10	3.1	.45	.38	.21
6	.75	1.4	1.1	1.1	1.1	1.3	3.9	10	3.1	.42	.35	.25
7	.73	1.3	1.2	1.1	1.2	1.4	4.2	10	2.8	.41	.34	.24
8	.77	1.3	1.2	1.1	1.2	1.5	4.1	11	2.7	.40	.44	.44
9	1.0	1.2	1.2	1.1	1.2	1.5	4.3	12	2.7	.41	.36	.26
10	.99	1.3	1.2	.90	1.2	1.5	3.7	13	2.5	.38	.30	.23
11	.94	1.3	1.3	.90	1.2	1.5	4.1	12	2.3	.37	.29	.22
12	1.2	1.3	1.3	.98	1.2	1.5	4.1	11	2.2	.29	.28	.24
13	1.2	1.3	1.3	1.1	1.2	1.5	4.1	11	2.1	.26	.25	.25
14	1.1	1.3	1.3	1.2	1.2	2.2	4.6	9.9	2.0	.29	.24	.29
15	.97	1.3	1.1	1.3	1.2	3.2	5.0	9.4	1.8	.52	.22	.35
16	.90	1.3	1.0	1.4	1.2	3.8	5.2	9.3	1.7	.73	.21	.33
17	.99	1.3	1.2	1.3	1.2	4.5	5.9	9.1	1.6	.77	.21	.29
18	.99	1.3	1.2	1.2	1.2	4.8	7.3	8.4	1.5	.54	.18	.29
19	.99	1.2	1.1	1.2	1.2	4.5	6.9	7.5	1.4	.51	.19	.28
20	.99	1.1	1.0	1.1	1.1	3.6	5.8	6.9	1.3	.66	.18	.26
21	1.1	1.1	1.1	1.0	1.0	4.0	6.1	7.0	1.2	.69	.21	.25
22	1.1	1.1	1.2	1.0	1.0	3.3	7.5	6.6	1.2	1.1	.20	.28
23	.99	1.1	1.1	1.0	1.0	3.2	9.6	6.0	1.1	.95	.18	.30
24	.99	1.1	1.1	1.0	1.0	3.2	11	5.8	.93	.68	.21	.29
25	1.1	1.0	1.0	1.0	1.2	3.3	11	5.4	.87	.58	.21	.29
26	1.1	1.0	1.0	1.3	1.5	3.5	11	5.0	.81	.67	.21	.29
27	1.2	1.0	1.0	1.1	1.5	3.1	8.9	4.9	.73	.79	.21	.29
28	1.1	1.1	1.2	1.1	1.5	3.0	8.5	4.7	.71	.49	.19	.31
29	1.1	1.2	1.2	1.1	-----	2.9	8.0	4.6	.64	.41	.21	.34
30	1.1	1.3	1.1	1.1	-----	3.5	8.7	4.3	.64	.36	.19	.34
31	1.1	-----	1.0	1.1	-----	3.3	-----	4.1	-----	.45	.17	-----
TOTAL	29.99	36.5	35.7	33.14	32.80	80.6	177.1	259.6	57.83	16.80	8.55	8.15
MEAN	.97	1.22	1.15	1.07	1.17	2.60	5.90	8.37	1.93	.54	.28	.27
MAX	1.2	1.4	1.5	1.4	1.5	4.8	11	13	3.8	1.1	.57	.44
MIN	.65	1.0	1.0	.80	.92	1.0	2.3	4.1	.64	.26	.17	.17
AC-FT	59	72	71	66	65	160	351	515	115	33	17	16

CAL YR 1973 TOTAL 2,290.20 MEAN 6.27 MAX 79 MIN .45 AC-FT 4,540
WTR YR 1974 TOTAL 776.76 MEAN 2.13 MAX 13 MIN .17 AC-FT 1,540

PEAK DISCHARGE (BASE, 15 CFS).--No peak above base.

NOTE.--No gage-height record Jan. 4 to Mar. 14.

BEAVER RIVER BASIN

10236000 North Fork North Creek near Beaver, Utah

LOCATION.—Lat 38°20'44", long 112°33'03", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.28 S., R.6 W., Beaver County, on right bank 25 ft (8 m) upstream from road ford, 0.5 mile (0.8 km) above South Fork North Creek, 0.8 mile (1.3 km) east of Fishlake National Forest boundary, and 6.8 miles (10.9 km) northeast of Beaver.

DRAINAGE AREA.—14.1 mi² (36.5 km²).

PERIOD OF RECORD.—June to September 1906, August 1965 to current year. Annual maximum only July 1959 to July 1965.

GAGE.—Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map. June to September 1906, nonrecording gage at about this site at different datum. July 1959 to July 1965, crest-stage gage at site 65 ft (20 m) downstream at different datum.

AVERAGE DISCHARGE.—9 years, 5.52 ft³/s (0.156 m³/s), 4,000 acre-ft/yr (4.93 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 22 ft³/s (0.62 m³/s) May 10 (gage height, 1.50 ft or 0.457 m); minimum, 0.10 ft³/s (0.003 m³/s) Jan. 18, result of freezeup.

Period of record: Maximum discharge, 198 ft³/s (5.61 m³/s) May 20, 1973, from rating curve extended above 81 ft³/s (2.29 m³/s); minimum recorded, 0.10 ft³/s (0.003 m³/s) Jan. 18, 1975, result of freezeup.

REMARKS.—Records good except those for winter period and periods of no gage-height record, which are fair. No diversion or regulation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	1.7	.90	1.2	1.9	3.6	11	12	3.3	1.9	.87
2	1.1	1.4	1.6	.70	1.1	2.5	4.0	12	11	3.2	1.8	.87
3	1.1	1.5	1.1	.76	1.1	2.5	3.9	13	10	3.1	1.7	.86
4	1.2	1.5	1.1	.90	1.1	2.3	3.5	14	10	2.9	1.6	.85
5	1.3	1.4	1.1	1.0	1.0	2.4	3.8	13	10	2.8	1.5	.95
6	1.4	1.4	1.2	1.0	.95	2.8	5.2	13	10	2.7	1.4	1.2
7	1.4	1.4	1.3	1.0	.93	2.7	6.0	14	9.8	2.5	1.8	1.1
8	2.1	1.4	1.3	1.0	.93	2.5	7.0	16	9.2	2.4	1.5	.92
9	2.4	1.4	1.2	.96	.93	2.4	7.4	18	8.3	2.4	1.5	.87
10	2.0	1.4	1.2	.86	.98	2.2	7.3	19	7.9	2.3	1.4	.85
11	1.8	1.4	1.2	.84	1.0	2.3	7.4	17	7.7	2.3	1.3	.87
12	1.8	1.4	1.2	.90	1.1	2.4	6.3	17	7.7	2.3	1.3	.93
13	1.7	1.5	1.5	.98	1.2	2.9	6.3	17	7.4	2.3	1.3	.97
14	1.5	1.5	1.4	1.1	1.2	3.7	6.4	15	7.3	2.3	1.3	1.0
15	1.4	1.6	1.4	1.2	1.2	4.6	7.1	15	7.0	2.5	1.3	1.1
16	1.4	1.6	1.4	1.3	1.2	5.7	8.5	17	6.6	2.9	1.3	1.0
17	1.2	1.7	1.4	1.3	1.2	6.2	9.3	17	6.3	3.3	1.2	.92
18	1.2	2.2	1.4	1.2	1.2	6.1	10	15	6.0	2.5	1.2	.91
19	1.2	1.8	1.3	1.2	1.5	5.3	10	13	5.5	2.3	1.2	.92
20	1.2	1.5	1.1	1.2	1.4	4.6	9.2	11	5.3	2.4	1.2	.88
21	1.2	1.3	1.3	1.1	1.3	4.5	8.4	10	5.0	2.3	1.2	.79
22	1.2	1.2	1.5	1.0	1.3	4.2	8.3	9.2	4.8	2.4	1.2	.80
23	1.2	1.2	1.4	1.0	1.3	3.9	9.5	8.8	4.5	2.3	1.1	.86
24	1.4	1.1	1.4	1.0	1.4	3.8	11	9.2	4.3	2.3	1.1	.86
25	1.4	1.1	1.2	1.0	1.9	4.0	11	11	4.2	2.1	1.1	.92
26	1.4	1.2	1.2	1.2	1.7	4.3	12	13	4.0	2.4	1.0	.96
27	1.2	1.0	1.3	1.1	1.3	4.1	11	15	3.8	2.1	1.0	.97
28	1.2	1.1	1.3	1.1	1.4	3.8	10	16	3.7	1.9	1.0	1.0
29	1.2	1.4	1.4	1.1	-----	3.7	9.6	16	3.5	1.8	.99	1.0
30	1.2	1.7	1.4	1.1	-----	3.6	9.6	14	3.4	1.7	.95	.99
31	1.4	-----	5.5	1.1	-----	4.0	-----	13	-----	2.0	.95	-----
TOTAL	43.5	42.7	45.0	32.10	34.02	111.9	232.6	432.2	206.2	76.0	40.29	27.99
MEAN	1.40	1.42	1.45	1.04	1.22	3.61	7.75	13.9	6.87	2.45	1.30	.93
MAX	2.4	2.2	5.5	1.3	1.9	6.2	12	19	12	3.3	1.9	1.2
MIN	1.1	1.0	1.1	.70	.93	1.9	3.5	8.8	3.4	1.7	.95	.79
AC-FT	86	85	89	64	67	222	461	857	409	151	80	56

CAL YR 1973 TOTAL 3,443.88 MEAN 9.44 MAX 144 MIN .96 AC-FT 6,830
 WTR YR 1974 TOTAL 1,324.50 MEAN 3.63 MAX 19 MIN .70 AC-FT 2,630

PEAK DISCHARGE (BASE, 20 CFS).—May 10 (0400) 22 cfs (1.50 ft).

NOTE.—No gage-height record July 28 to Aug. 28.

10236500 South Fork North Creek, near Beaver, Utah

LOCATION.—Lat 38°20'19", long 112°32'14", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.28 S., R.6 W., Beaver County, on left bank 0.4 mile (0.6 km) upstream from the Fishlake National Forest boundary, 1.2 miles (1.9 km) upstream from the mouth, and 7 miles (11 km) northeast of Beaver.

DRAINAGE AREA.—23.0 mi² (59.6 km²).

PERIOD OF RECORD.—June to September 1906, August 1965 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map. June to September 1906, nonrecording gage at about this site at different datum.

AVERAGE DISCHARGE.—9 years, 18.2 ft³/s (0.515 m³/s), 13,190 acre-ft/yr (16.3 hm³/yr).

EXTREMES.—Current year: Maximum discharge during year, 187 ft³/s (5.30 m³/s) May 9 (gage height, 2.23 ft or 0.680 m); minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Aug. 6.

Period of record: Maximum discharge, 1,550 ft³/s (43.9 m³/s) result of slope-area measurement July 24, 1968 (gage height, 3.10 ft or 0.945 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 2-8, 1971.

REMARKS.—Records fair except those for winter period, which are poor. No diversion above station. Some regulation possible by Blue Lake Reservoir, capacity 378 acre-ft (0.466 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.3	3.4	2.4	3.3	4.1	14	65	47	8.4	5.2	2.9
2	4.5	3.3	3.4	2.6	2.9	4.2	14	75	41	7.6	3.9	2.9
3	4.6	3.3	3.4	2.4	2.7	3.4	12	87	39	6.8	2.7	2.8
4	4.5	3.2	3.3	2.8	2.6	3.0	11	83	37	6.1	2.5	2.7
5	4.4	3.1	3.2	3.1	2.6	3.4	12	76	39	6.1	2.3	2.7
6	4.4	3.2	3.2	3.3	2.6	3.9	17	75	39	5.7	2.2	2.7
7	4.3	3.2	3.2	3.3	2.6	4.5	21	85	37	22	3.6	2.7
8	4.7	3.2	3.2	3.3	2.6	5.0	22	106	35	14	3.2	2.7
9	5.1	3.1	3.4	3.0	2.4	6.0	23	138	33	8.0	2.8	2.7
10	5.0	3.2	3.3	2.7	2.5	6.4	21	149	33	6.8	2.9	2.7
11	4.8	3.2	3.3	2.6	2.7	8.8	19	138	35	6.1	2.9	2.7
12	4.7	3.2	3.2	3.3	2.9	12	17	138	46	5.7	2.9	2.7
13	4.9	3.2	3.1	3.3	3.0	14	16	162	42	5.4	2.9	2.6
14	5.3	3.0	3.1	3.3	3.0	17	18	146	37	5.1	2.9	2.6
15	5.4	2.8	3.1	3.3	3.0	20	21	143	47	4.9	2.9	2.6
16	5.4	3.0	3.2	3.3	3.0	25	25	170	41	7.8	2.9	2.6
17	5.2	3.1	3.1	2.6	3.0	26	29	152	33	8.4	2.9	2.6
18	4.9	3.0	3.2	2.4	3.0	25	37	116	29	7.3	2.9	2.6
19	4.9	3.2	2.7	2.7	3.0	20	36	94	28	6.7	2.9	2.6
20	4.8	3.2	3.0	2.7	2.6	17	31	85	27	4.2	2.9	2.5
21	4.5	3.2	3.1	2.7	2.6	16	26	65	24	3.2	2.9	2.5
22	3.9	3.2	3.1	2.7	2.6	16	28	56	20	3.1	2.9	2.5
23	3.7	3.2	3.1	2.7	2.6	15	40	46	17	2.8	2.9	2.5
24	3.5	3.2	3.2	2.6	2.6	15	53	44	14	2.7	2.9	2.5
25	3.5	3.2	3.1	2.7	2.9	17	54	39	12	2.9	2.9	2.5
26	3.6	3.2	3.1	3.3	3.4	19	64	37	11	2.9	2.9	2.6
27	3.5	3.2	3.1	2.7	3.9	17	47	40	9.9	2.6	2.9	2.6
28	3.4	3.2	3.1	2.7	4.0	15	39	65	8.4	2.5	2.9	2.6
29	3.4	3.3	3.2	2.7	-----	14	37	81	8.0	2.6	2.9	2.6
30	3.2	3.4	3.2	2.7	-----	14	44	62	7.6	2.7	2.9	2.6
31	3.2	-----	2.8	2.7	-----	15	-----	47	-----	4.3	2.9	-----
TOTAL	135.7	95.3	98.1	88.6	80.6	401.7	848	2,865	876.9	185.4	92.2	79.1
MEAN	4.38	3.18	3.16	2.86	2.88	13.0	28.3	92.4	29.2	5.98	2.97	2.64
MAX	5.4	3.4	3.4	3.3	4.0	26	64	170	47	22	5.2	2.9
MIN	3.2	2.8	2.7	2.4	2.4	3.0	11	37	7.6	2.5	2.2	2.5
AC-FT	269	189	195	176	160	797	1,680	5,680	1,740	368	183	157

CAL YR 1973 TOTAL 2,144.1 MEAN 5.87 MAX 21 MIN 1.9 AC-FT 4,250
WTR YR 1974 TOTAL 5,846.6 MEAN 16.0 MAX 170 MIN 2.2 AC-FT 11,600

PEAK DISCHARGE (BASE, 80 CFS).--May 9 (2400 187 cfs (2.23 ft.))

BEAVER RIVER BASIN

10237000 Beaver River at Adamsville, Utah

LOCATION.—Lat 38°15'13", long 112°46'03", in NW¼SW¼SW¼ sec.28, T.29 S., R.8 W., Beaver County, on left bank 370 ft (113 m) downstream from bridge on State Highway 21, 1.5 miles (2.4 km) upstream from Indian Creek, and 1.5 miles (2.4 km) east of Adamsville.

DRAINAGE AREA.—267 mi² (692 km²).

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

GAGE.—Water-stage recorder. Altitude of gage is 5,550 ft (1,692 m) from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.1 miles (1.8 km) downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 miles (1.9 km) downstream at different datum. May 29, 1946, to Mar. 19, 1970, at site 1.75 miles (2.82 km) downstream at different datum.

AVERAGE DISCHARGE.—60 years (1914-74), 35.7 ft³/s (1.011 m³/s), 25,860 acre-ft/yr (31.9 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 90 ft³/s (2.55 m³/s) Feb. 16 (gage height, 1.36 ft or 0.415 m); minimum, 0.66 ft³/s (0.019 m³/s) May 19.

Period of record: Maximum discharge, 1,090 ft³/s (30.9 m³/s) July 23, 1941 (gage height, 4.68 ft or 1.426 m, site and datum then in use), from rating curve extended above 500 ft³/s (14.2 m³/s); no flow during summer and fall months in many years.

REMARKS.—Records good. No diversions between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	35	55	34	33	48	32	19	4.2	1.7	18	1.1
2	14	48	48	26	33	48	40	16	6.0	2.0	18	1.0
3	15	47	44	37	32	47	46	6.0	7.7	2.1	19	1.1
4	10	47	45	42	33	42	43	1.2	3.2	3.1	17	1.0
5	12	45	43	48	33	40	37	1.2	7.7	4.8	15	1.1
6	10	45	44	48	30	41	33	.96	6.4	2.1	14	1.3
7	9.4	43	44	36	30	41	29	1.0	2.4	2.3	13	1.3
8	17	43	45	37	28	40	28	1.6	1.0	2.8	15	1.0
9	35	43	42	36	27	42	28	1.1	1.7	4.2	14	1.1
10	25	43	41	36	27	46	30	6.0	2.4	3.5	11	1.1
11	21	42	41	35	30	43	36	3.8	1.3	3.6	8.4	.98
12	19	42	41	36	33	41	38	3.1	.75	3.4	7.5	.84
13	24	41	42	36	34	42	32	5.4	2.0	3.7	3.7	.96
14	30	38	42	36	36	42	31	2.5	1.5	3.5	6.3	.96
15	29	38	39	36	40	43	29	1.6	5.9	3.9	3.3	.94
16	28	38	39	35	53	47	25	1.6	8.9	8.3	3.2	.82
17	27	39	40	46	48	49	28	1.1	5.0	19	2.9	.84
18	28	42	40	53	36	50	26	.75	1.7	16	2.5	.81
19	29	44	38	45	37	52	25	.70	1.2	22	2.3	.76
20	28	42	38	43	32	50	23	1.6	1.0	23	1.8	.77
21	28	44	39	38	31	48	22	1.8	1.1	18	1.7	.83
22	27	40	38	30	35	48	22	2.3	1.5	17	1.6	.82
23	26	42	38	39	35	48	21	1.6	2.0	20	1.4	.80
24	26	42	38	35	34	46	17	1.0	2.0	26	1.5	.80
25	27	41	41	36	41	47	21	1.2	2.0	21	1.4	.80
26	28	43	32	37	47	48	28	1.6	2.6	18	1.2	.80
27	28	48	43	36	51	50	27	1.4	2.5	19	1.2	.80
28	28	53	41	35	52	47	21	1.2	2.8	15	.99	.80
29	28	51	46	33	-----	46	21	1.1	2.8	14	1.1	.80
30	29	52	45	34	-----	44	20	2.7	2.3	13	1.1	.80
31	31	-----	36	32	-----	49	-----	2.5	-----	18	.92	-----
TOTAL	731.4	1,301	1,288	1,166	1,011	1,415	859	94.61	93.55	334.0	210.01	27.83
MEAN	23.6	43.4	41.5	37.6	36.1	45.6	28.6	3.05	3.12	10.8	6.77	.93
MAX	35	53	55	53	53	52	46	19	8.9	26	19	1.3
MIN	9.4	35	32	26	27	40	17	.70	.75	1.7	.92	.76
AC-FT	1,450	2,580	2,550	2,310	2,010	2,810	1,700	188	186	662	417	55
CAL YR 1973	TOTAL	23,131.50	MEAN	63.4	MAX	574	MIN	5.3	AC-FT	45,880		
WTR YR 1974	TOTAL	8,531.40	MEAN	23.4	MAX	55	MIN	.70	AC-FT	16,920		

BEAVER RIVER BASIN

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10237500 Indian Creek near Beaver, Utah

LOCATION.--Lat 38°25'53", long 112°35'13", in NE¼NW¼SE¼ sec.25, T.27 S., R.7 W., Beaver County, on right bank 0.4 mile (0.6 km) downstream from Fishlake National Forest boundary, about 0.6 mile (1.0 km) upstream from Manderfield ditch diversion, and 11 miles (18 km) north of Beaver.

DRAINAGE AREA.--18.5 mi² (47.9 km²).

PERIOD OF RECORD.--June to August 1906, July 1947 to October 1949, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map. June to August 1906, nonrecording gage and July 1947 to October 1949, water-stage recorder at about same site at different datum.

AVERAGE DISCHARGE.--11 years (1947-49, 1965-74), 6.87 ft³/s (0.195 m³/s), 4,980 acre-ft/yr (6.14 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 21 ft³/s (0.594 m³/s) May 10, 11 (gage height, 1.51 ft or 0.460 m); minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Jan. 2.

Period of record: Maximum discharge, 311 ft³/s (8.81 m³/s) May 14, 1973 (gage height, 2.36 ft or 0.719 m); maximum gage height, 2.41 ft (0.735 m) Dec. 31, 1971, (backwater from ice); minimum recorded discharge, 0.68 ft³/s (0.019 m³/s) Sept. 15, 16, 1972.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. No diversions above station. Some regulation from small reservoirs at headwaters, capacity about 500 acre-ft (616,500 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2.6	2.5	1.3	1.4	1.7	4.9	13	14	8.0	3.9	2.0
2	4.7	2.7	2.3	1.1	1.3	1.7	5.0	14	13	7.8	4.2	2.0
3	4.7	2.6	2.2	1.2	1.3	1.6	5.4	15	12	7.8	4.0	1.9
4	4.7	2.5	2.0	1.4	1.3	1.5	4.9	16	11	7.4	3.8	1.9
5	4.7	2.5	2.0	1.5	1.3	1.5	4.9	15	11	7.3	3.6	1.8
6	4.7	2.5	2.0	1.5	1.3	1.7	5.8	17	10	7.2	3.2	1.9
7	4.4	2.5	2.0	1.5	1.2	2.0	6.5	15	10	7.5	3.2	1.8
8	5.6	2.4	2.0	1.5	1.2	2.3	7.1	16	9.4	7.4	3.2	1.7
9	4.9	2.3	2.0	1.5	1.2	2.3	7.4	18	9.1	7.3	3.1	1.6
10	4.4	2.3	2.0	1.4	1.3	2.3	7.6	20	8.8	7.2	3.0	1.6
11	4.0	2.3	1.9	1.4	1.4	2.4	9.8	21	8.4	6.9	2.9	1.8
12	3.9	2.5	1.8	1.5	1.4	2.5	6.4	20	8.3	6.7	2.8	1.8
13	3.7	3.0	1.8	1.5	1.4	2.9	6.8	19	8.5	6.5	2.7	1.8
14	3.3	2.9	1.8	1.5	1.4	3.5	6.6	19	9.4	5.5	2.6	1.9
15	3.1	2.5	1.8	1.5	1.4	4.1	8.1	17	11	4.2	2.6	1.8
16	3.0	2.5	1.8	1.5	1.4	4.6	10	17	13	4.3	2.6	1.8
17	2.9	2.8	1.7	1.5	1.4	4.9	12	16	13	4.7	2.8	1.7
18	2.7	3.2	1.7	1.5	1.4	4.8	12	16	12	4.3	2.7	1.8
19	2.7	2.8	1.7	1.5	1.4	5.4	12	15	12	4.1	2.6	1.7
20	2.6	2.5	1.7	1.5	1.4	5.5	12	14	12	4.4	2.6	1.7
21	2.8	2.3	1.7	1.5	1.3	4.4	11	14	11	4.1	2.6	1.7
22	2.3	2.2	1.7	1.3	1.3	4.2	12	13	12	4.3	2.6	1.7
23	2.5	2.2	1.7	1.3	1.3	4.2	14	12	11	4.0	2.5	1.7
24	2.7	2.1	1.7	1.3	1.3	4.4	15	12	11	4.0	2.5	1.7
25	2.6	2.1	1.7	1.3	1.4	4.4	16	11	11	3.7	2.4	1.7
26	2.5	2.1	1.7	1.4	1.5	4.2	16	12	12	3.8	2.4	1.7
27	2.5	2.1	1.9	1.3	1.6	4.2	15	14	12	3.8	2.4	1.7
28	2.6	2.1	2.1	1.3	1.6	4.3	14	16	11	3.6	2.3	1.8
29	2.6	2.2	2.1	1.3	-----	4.7	13	16	11	3.5	2.2	1.8
30	2.6	2.3	1.8	1.3	-----	5.1	13	16	8.3	3.6	2.0	1.8
31	2.6	-----	1.5	1.3	-----	5.5	-----	15	-----	3.8	2.0	-----
TOTAL	107.4	73.6	58.3	43.4	38.1	108.8	294.2	486	326.2	168.7	88.0	53.3
MEAN	3.46	2.45	1.88	1.40	1.36	3.51	9.81	15.7	10.9	5.44	2.84	1.78
MAX	5.6	3.2	2.5	1.5	1.6	5.5	16	21	14	8.0	4.2	2.0
MIN	2.3	2.1	1.5	1.1	1.2	1.5	4.9	11	8.3	3.5	2.0	1.6
AC-FT	213	146	116	86	76	216	584	964	647	335	175	106

CAL YR 1973 TOTAL 7,276.8 MEAN 19.9 MAX 283 MIN 1.2 AC-FT 14,430
WTR YR 1974 TOTAL 1,846.0 MEAN 5.06 MAX 21 MIN 1.1 AC-FT 3,660

PEAK DISCHARGE (BASE, 20 CFS).--May 10 (2200) 21 cfs (1.51 ft).

NOTE.--No gage-height record Nov. 20 to Mar. 7.

BEAVER RIVER BASIN

10238500 Minersville Reservoir near Minersville, Utah

LOCATION.--Lat 38°13'03", long 112°50'05", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.30 S., R. 9 W., Beaver County, Rocky Ford Dam on Beaver River, 5 miles (8 km) east of Minersville.

DRAINAGE AREA.--510 sq mi (1,321 km²), approximately.

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to Oct. 1, 1967.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft (1,661.77 m) above mean sea level. Levels by topographic survey.

EXTREMES.--Current year: Maximum contents observed, 23,150 acre-ft (28.5 hm³) Mar. 31, Apr. 16 (gage height, 50.9 ft or 15.51 m); minimum, 4,460 acre-ft (5.50 hm³) Aug. 28 (gage height, 24.9 ft or 7.59 m).

Period of record: Maximum contents observed, 26,330 acre-ft (32.5 hm³) June 24-29, 1969 (gage height, 53.8 ft or 16.40 m). No contents at times in 1915, 1918-19, 1939, and 1956.

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft (28.7 hm³) between gage height 0.0 (bottom of outlet tunnel) and 51.0 ft (15.54 m) (spillway crest). Prior to fall of 1937 the spillway crest was at elevation 52.5 ft (16.00 m); capacity, 24,910 acre-ft (30.7 hm³). Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		13,030										
2	11,550											
3							23,040	22,160				
4		13,110	11,530						16,100			
5												
6												
7				17,760								
8												
9									15,530			
10						22,160						
11												
12												
13												
14	11,960											
15				18,320								
16							23,150					
17			11,720							8,750		
18												
19												
20					20,590							
21								18,610				
22							23,040	18,420				
23								18,510				
24												
25						23,040						
26						22,930						
27							22,820					
28					a 21,290						4,460	
29					-----							
30		a 11,740			-----		22,600	a 11,780	a 11,780	a 7,320	a 4,340	a 3,110
31	a 12,970	-----	a 15,750	a 19,330	-----	23,150	-----	a 16,900	-----	a 7,320	a 4,340	-----
(†)	-	-----	-----	-----	-----	50.9	50.4	-----	-----	-----	-----	-----
(‡)	+1,270	-1,230	+4,010	+3,580	+1,960	+1,860	-550	-5,700	-5,120	-4,460	-2,980	-1,230
CAL YR 1973.	+8,740											
WTR YR 1974.	-8,590											

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

‡ Change in contents, in acre-feet.

a No gage-height readings; contents interpolated.

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LOCATION.--Lat 38°13'03", long 112°50'22", in SE¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, on right bank 0.5 mile (0.8 km) downstream from Rocky Ford Dam and 4.8 miles (7.7 km) east of Minersville.

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

AVERAGE DISCHARGE.—59 years (1914–36, 1937–74), 37.1 ft³/s (1.051 m³/s), 26,880 acre-ft/yr (33.1 hm³/yr).

Period of record: Maximum discharge, 727 ft³/s (20.6 m³/s) June 10, 1921 (gage height, 3.53 ft or 1.076 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Mar. 20, 1914.

REVISIONS (WATER YEARS).--WSP 1564: 1920, 1924..

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	8.4	7.4	11	14	17	50	86	123	200	63	83
2	16	8.1	7.4	10	14	17	28	86	123	215	55	88
3	16	8.1	7.4	10	14	18	23	90	125	198	51	88
4	17	8.1	7.4	10	15	18	22	101	124	161	49	88
5	15	8.1	7.5	10	16	18	22	104	117	157	47	88
6	13	8.1	7.5	10	16	18	25	93	79	153	61	88
7	12	8.2	7.7	11	15	16	27	93	99	154	69	80
8	14	8.4	7.9	12	15	15	27	101	125	153	69	79
9	11	8.5	8.1	12	15	16	27	105	127	148	70	75
10	6.5	8.5	8.1	12	15	17	27	106	127	140	72	74
11	6.5	8.7	8.6	12	14	17	26	106	126	136	80	71
12	6.8	8.6	8.7	12	14	17	26	106	127	130	84	61
13	6.5	8.7	8.7	12	15	17	25	105	121	124	89	42
14	6.3	8.5	8.7	13	15	17	25	107	97	120	95	7.0
15	6.3	8.1	8.7	13	16	17	24	107	84	115	97	6.5
16	6.8	7.7	8.7	13	15	18	25	107	96	100	101	6.3
17	6.8	7.1	8.7	14	15	18	24	102	116	90	101	6.0
18	7.0	7.7	9.3	14	14	18	25	98	140	80	101	6.5
19	7.4	7.5	9.3	13	14	17	25	95	147	79	101	6.5
20	7.4	7.5	9.3	14	14	17	24	95	155	66	91	6.5
21	7.3	7.5	9.3	13	14	17	25	95	156	61	67	6.5
22	7.5	7.5	9.3	13	14	17	25	97	160	49	63	6.5
23	8.0	7.5	9.3	13	14	18	25	95	163	35	64	6.5
24	8.1	7.5	9.3	14	15	18	24	97	168	25	65	7.0
25	8.1	7.5	9.9	14	15	18	25	97	179	28	66	6.4
26	8.0	7.5	9.9	14	16	18	25	103	194	32	57	6.3
27	8.5	7.4	9.9	14	16	25	25	114	194	33	50	6.5
28	8.4	7.4	10	14	17	54	24	112	192	63	52	6.5
29	8.1	7.4	10	14	-----	53	49	118	191	69	70	6.1
30	8.1	7.4	10	14	-----	53	86	120	189	69	75	6.3
31	8.6	-----	10	14	-----	53	-----	121	-----	67	81	-----
TOTAL	302.0	237.2	272.0	389	416	687	860	3,162	4,164	3,250	2,256	1,114.9
MEAN	9.74	7.91	8.77	12.5	14.9	22.2	28.7	102	139	105	72.8	37.2
MAX	25	8.7	10	14	17	54	86	121	194	215	101	88
MIN	6.3	7.1	7.4	10	14	15	22	86	79	25	47	6.0
AC-FT	599	470	540	772	825	1,360	1,710	6,270	8,260	6,450	4,470	2,210
CAL YR 1973	TOTAL	22,770.9	MEAN	62.4	MAX	420	MIN	3.4	AC-FT	45,170		
WTR YR 1974	TOTAL	17,110.1	MEAN	46.9	MAX	215	MIN	6.0	AC-FT	33,940		

10241400 Little Creek near Paragonah, Utah

LOCATION.—Lat 37°54'19", long 112°42'30", near center of sec.25, T.33 S., R.8 W., Iron County, on right bank 0.5 mile (0.8 km) downstream from Dixie National Forest boundary, 2.5 miles (4.0 km) upstream from mouth of canyon, and 3.5 miles (5.6 km) northeast of Paragonah.

DRAINAGE AREA.—17 mi² (44.0 km²), approximately.

PERIOD OF RECORD.—July 1959 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 6,740 ft (2,054 m) from topographic map.

AVERAGE DISCHARGE.—15 years, 1.80 ft³/s (0.051 m³/s), 1,300 acre-ft/yr (1.60 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 92 ft³/s (2.61 m³/s) July 20 (gage height, 2.44 ft or 0.744 m); minimum, 0.24 ft³/s (0.007 m³/s) Nov. 16.

Period of record: Maximum discharge, 351 ft³/s (9.94 m³/s) Aug. 3, 1961 (gage height, 3.86 ft or 1.177 m, from floodmarks) from rating curve extended above gage height 1.4 ft (0.427 m) on basis of slope-area measurement made at gage height 3.55 ft (1.082 m); maximum gage height, 4.20 ft (1.280 m) July 31, 1968; no flow at times in most years.

REMARKS.—Records good, except those for period of no gage-height, which are fair. Station is above all diversions.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	1.6	1.3	1.2	1.2	2.3	3.9	3.9	1.9	1.0	.82
2	1.3	1.2	1.1	1.0	1.2	1.5	2.0	4.3	4.0	1.8	1.2	.78
3	1.3	1.2	1.5	1.2	1.2	1.3	3.1	4.1	4.0	1.6	1.0	.78
4	1.3	1.2	1.3	1.3	1.2	1.1	2.3	4.0	3.9	1.5	1.0	.78
5	1.3	1.3	1.3	1.4	1.2	1.1	1.5	4.0	4.0	1.5	.94	.88
6	1.3	1.3	1.3	1.3	.94	1.1	2.0	4.0	4.0	1.6	.94	.89
7	1.3	1.5	1.5	1.2	1.1	1.2	2.1	4.1	3.9	1.8	.94	.89
8	1.4	1.5	1.4	1.3	1.1	1.1	2.0	4.1	3.9	1.3	.94	.81
9	1.8	1.4	1.4	1.2	1.1	1.1	1.8	4.1	3.8	1.2	.90	.78
10	1.7	1.4	1.5	1.1	1.1	1.1	1.8	4.1	3.7	1.0	.90	.88
11	1.7	1.4	1.5	1.1	1.1	1.1	1.8	4.1	3.7	1.0	.84	.89
12	1.5	1.3	1.4	1.2	1.1	1.4	2.0	4.1	3.8	.97	.84	.83
13	1.4	1.3	1.4	1.2	1.1	1.6	1.6	4.1	3.8	.79	.84	.78
14	1.3	1.1	1.5	1.3	1.0	1.8	1.6	3.8	3.9	.86	.82	.78
15	1.3	1.1	1.4	1.3	1.1	2.1	1.8	3.8	3.8	1.0	.82	.78
16	1.3	1.1	1.5	1.3	1.1	2.6	2.0	3.8	3.7	1.1	.82	.88
17	1.3	1.1	1.4	1.7	1.1	3.0	2.4	3.8	3.7	1.1	.82	.80
18	1.3	1.2	1.5	1.5	1.1	2.9	2.7	3.8	3.6	.89	.82	.78
19	1.3	1.0	1.3	1.3	1.1	2.7	2.5	3.8	3.2	1.1	.82	.78
20	1.3	1.1	1.2	1.2	1.0	2.2	2.4	3.8	2.8	2.0	.82	.78
21	1.4	1.0	1.3	1.2	1.1	2.0	3.0	3.8	2.9	1.6	.82	.85
22	1.4	.97	1.4	1.2	1.1	2.0	4.0	4.1	2.9	1.2	.82	.78
23	1.4	1.1	1.4	1.4	1.0	2.0	4.8	4.2	2.9	3.0	.78	.78
24	1.4	1.1	1.2	1.2	1.0	2.0	4.6	4.2	2.9	1.2	.78	.78
25	1.4	1.0	1.3	1.3	1.2	2.0	4.6	4.1	2.8	1.1	.88	.78
26	1.4	1.1	.85	1.4	1.1	2.0	4.6	4.0	2.8	1.1	.89	.78
27	1.3	.95	1.5	1.3	1.1	1.9	4.3	3.7	2.3	1.1	.88	.80
28	1.3	1.3	1.5	1.3	1.2	1.9	4.3	3.7	1.9	1.1	.78	.78
29	1.3	1.5	1.5	1.3	-----	1.9	3.8	3.7	1.9	1.1	.78	.78
30	1.3	1.6	1.3	1.3	-----	2.2	3.8	3.7	2.0	1.1	.78	.72
31	1.3	-----	.83	1.3	-----	2.3	-----	3.7	-----	1.0	.88	-----
TOTAL	42.6	36.72	42.08	39.6	30.94	55.4	83.5	122.5	100.4	40.61	27.09	24.20
MEAN	1.37	1.22	1.36	1.28	1.11	1.79	2.78	3.95	3.35	1.31	.87	.81
MAX	1.8	1.6	1.6	1.7	1.2	3.0	4.8	4.3	4.0	3.0	1.2	.89
MIN	1.3	.95	.83	1.0	.94	1.1	1.5	3.7	1.9	.79	.78	.72
AC-FT	84	73	83	79	61	110	166	243	199	81	54	48
CAL YR 1973	TOTAL 2,074.12	MEAN 5.68	MAX 35	MIN .43	AC-FT 4,110							
WTR YR 1974	TOTAL 645.64	MEAN 1.77	MAX 4.8	MIN .72	AC-FT 1,280							

PEAK DISCHARGE (BASE, 11 CFS).—July 20 (1700) 92 cfs (2.44 ft).

NOTE:—No gage-height record July 20 to Aug. 22.

PAROWAN VALLEY

281

10241430 Red Creek near Paragonah, Utah

LOCATION.--Lat 37°51'25", long 112°40'30", in NE¼ sec.18, T.34 S., R.7 W., Iron County, about 100 ft (30 m) above the high-water line of Red Creek Reservoir, 5.8 miles (9.3 km) east of Paragonah.

DRAINAGE AREA.--6.3 mi² (16.3 km²) approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 1.66 ft³/s (0.047 m³/s), 1,200 acre-ft/yr (1.48 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 21 ft³/s (0.60 m³/s) Apr. 13 (gage height, 2.75 ft or 0.838 m, from highwater mark); minimum, 0.61 ft³/s (0.017 m³/s) Sept. 23.

Period of record: Maximum discharge, 48 ft³/s (1.36 m³/s) Aug. 17, 1965 (gage height, 3.28 ft or 1.000 m, from floodmark); minimum, 0.25 ft³/s (0.007 m³/s) July 20, 1972.

REMARKS.--Records good, except during winter period, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.0	2.1	1.8	1.7	1.8	2.6	5.6	2.1	1.2	1.3	1.0
2	1.6	2.0	2.2	1.8	1.7	1.8	1.8	5.6	2.1	1.1	1.4	1.0
3	1.6	2.0	2.2	1.8	1.7	1.8	2.6	5.2	2.1	1.1	1.3	.99
4	1.6	1.9	2.2	1.8	1.7	1.8	3.3	4.8	2.0	1.1	1.2	1.0
5	1.6	1.9	2.2	1.8	1.5	1.8	3.9	4.4	2.1	1.0	1.2	1.2
6	1.6	2.0	2.2	1.9	1.5	2.2	3.0	4.3	2.1	1.0	1.2	1.1
7	1.6	1.9	2.3	1.9	1.5	2.2	3.0	4.1	1.9	1.0	1.3	1.0
8	1.7	1.9	2.3	1.9	1.5	2.1	3.0	3.8	1.9	1.0	1.3	1.0
9	1.9	1.9	2.3	1.9	1.5	2.1	3.2	3.9	1.8	1.0	1.2	1.0
10	1.8	1.9	2.3	1.8	1.6	2.1	2.9	3.9	1.8	.95	1.2	.99
11	1.7	1.9	2.3	1.8	1.6	2.1	2.8	3.9	1.7	.95	1.1	.98
12	1.6	1.9	2.3	1.9	1.6	2.0	3.1	3.7	1.7	.95	1.1	1.0
13	1.6	1.9	2.3	2.0	1.6	1.9	5.4	3.7	1.5	.90	1.1	1.1
14	1.6	1.8	2.3	2.0	1.6	1.9	3.0	3.4	1.5	.95	1.1	1.0
15	1.6	1.9	2.2	2.0	1.6	2.0	3.4	3.3	1.4	1.1	1.1	1.1
16	1.6	1.9	2.2	2.1	1.6	2.2	3.4	3.2	1.4	1.3	1.1	1.1
17	1.6	2.0	2.2	2.1	1.6	2.4	4.0	3.1	1.4	1.2	1.0	1.0
18	1.6	1.9	2.2	2.1	1.6	2.4	4.5	3.0	1.4	1.1	1.0	1.0
19	1.7	1.7	2.2	2.0	1.6	2.3	4.2	2.8	1.4	1.1	.98	1.1
20	1.8	2.0	2.1	1.9	1.5	2.2	4.1	2.9	1.4	1.1	1.0	1.1
21	1.9	2.1	2.0	1.7	1.5	2.7	4.7	2.8	1.3	1.2	1.0	1.1
22	1.9	2.0	2.0	1.6	1.5	2.2	5.9	2.6	1.4	1.2	.98	1.1
23	1.9	1.9	2.0	1.6	1.5	2.3	7.2	2.6	1.3	1.2	.99	1.1
24	1.9	1.9	2.0	1.6	1.5	2.4	6.7	2.6	1.3	1.1	.98	1.0
25	1.9	2.0	2.0	1.6	1.6	2.5	6.9	2.5	1.3	1.1	.99	1.2
26	1.9	2.1	2.0	1.6	1.7	2.5	6.2	2.4	1.3	1.1	.95	1.0
27	1.9	2.1	2.0	1.6	1.8	2.3	5.5	2.2	1.2	1.1	.94	1.1
28	1.9	2.1	2.0	1.6	1.8	2.3	5.2	2.2	1.2	1.2	.94	1.1
29	1.9	2.1	2.0	1.6	-----	2.6	5.1	2.2	1.2	1.3	.97	1.1
30	1.9	2.1	1.9	1.7	-----	3.1	5.3	2.2	1.2	1.4	.96	1.1
31	2.0	-----	1.8	1.7	-----	2.9	-----	2.1	-----	1.4	.95	-----
TOTAL	54.0	58.7	66.3	56.2	44.7	68.9	125.9	105.0	47.4	34.40	33.83	31.66
MEAN	1.74	1.96	2.14	1.81	1.60	2.22	4.20	3.39	1.58	1.11	1.09	1.06
MAX	2.0	2.1	2.3	2.1	1.8	3.1	7.2	5.6	2.1	1.4	1.4	1.2
MIN	1.6	1.7	1.8	1.6	1.5	1.8	1.8	2.1	1.2	.90	.94	.98
AC-FT	107	116	132	111	89	137	250	208	94	68	67	63

CAL YR 1973 TOTAL 1,285.10 MEAN 3.52 MAX 22 MIN .70 AC-FT 2,550
WTR YR 1974 TOTAL 726.99 MEAN 1.99 MAX 7.2 MIN .90 AC-FT 1,440

PEAK DISCHARGE (BASE, 4 CFS).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-21	1000	1.97	4.9	4-13	0900	2.75	21
4-5	0900	2.20	8.8	4-23	1800	2.28	11

NOTE.--No gage-height records Jan. 21 to Mar. 1.

PAROWAN VALLEY

10241470 Center Creek above Parowan Creek, near Parowan, Utah

LOCATION.--Lat 37°47'20", Long 112°48'40", in NE¼NE¼ sec.1, T.35 S., R.9 E., Iron County, on left bank about 900 ft (274 m) above mouth of Parowan Creek and 3.5 miles (5.6 km) south of Parowan.

DRAINAGE AREA.--11 mi² (28.5 km²), approximately, does not include 2.0 mi² (5.18 km²) that contributes runoff to Yankee Meadows Reservoir, located on Boworg Creek, which is a tributary to Center Creek, 0.5 mile (0.8 km) below station.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,103 m) above mean sea level (from topographic map).

AVERAGE DISCHARGE.--10 years, 6.78 ft³/s (0.192 m³/s), 4,910 acre-ft/yr (6.05 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 109 ft³/s (3.09 m³/s) July 23 (gage height, 2.17 ft or 0.661 m); minimum discharge recorded, 4.1 ft³/s (0.116 m³/s) Sept. 1-4, 26, 27.

Period of record: Maximum discharge, 353 ft³/s (10.0 m³/s) Aug. 10, 1965 (gage height, 4.96 ft or 1.512 m from floodmarks), from rating curve extended above 18 ft³/s (0.51 m³/s) on basis of slope-area measurement, at gage height, 4.96 ft (1.512 m); minimum recorded, 1.4 ft³/s (0.040 m³/s) July 16, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	6.8	5.4	4.5	5.7	5.8	5.2	8.0	6.3	6.0	5.4	4.6
2	8.2	6.8	5.3	4.5	5.7	5.7	5.2	8.5	6.4	5.9	5.7	4.3
3	7.9	6.8	5.2	4.5	5.7	5.5	5.2	8.8	6.3	5.9	5.4	4.3
4	7.9	6.6	5.2	4.5	5.7	5.3	5.2	8.8	6.3	5.9	6.1	4.3
5	7.8	6.5	5.1	4.8	5.7	5.3	5.2	8.3	6.4	6.3	5.4	4.6
6	7.8	6.5	5.0	5.0	5.2	5.2	5.2	8.1	6.5	5.7	5.4	4.5
7	7.7	6.4	4.9	5.0	5.1	5.2	5.2	7.7	6.5	5.5	5.4	4.4
8	7.8	5.9	5.1	5.0	5.0	5.2	5.2	8.2	6.6	5.6	5.4	4.4
9	8.3	5.7	5.6	5.0	5.0	5.2	5.2	8.8	6.7	5.5	5.4	4.4
10	8.2	5.7	6.1	5.0	5.0	5.2	5.2	8.9	6.6	5.6	5.4	4.5
11	8.2	5.7	5.3	5.0	5.3	5.2	5.2	8.7	6.5	5.5	5.0	4.5
12	8.1	5.7	5.3	5.0	5.5	5.2	5.2	8.3	6.6	5.5	5.0	4.8
13	8.0	5.7	5.3	5.2	5.5	5.2	5.2	8.2	6.5	5.5	5.0	4.9
14	7.9	5.7	5.4	5.4	5.5	5.2	5.2	8.0	6.3	5.6	5.0	4.8
15	7.8	5.6	5.7	5.8	5.5	5.2	5.2	7.8	6.7	6.1	5.0	4.8
16	7.6	5.6	5.0	6.4	5.5	5.2	5.2	7.8	6.7	6.0	5.0	4.8
17	7.5	5.7	5.1	6.4	5.5	5.2	5.3	7.1	6.5	6.0	5.0	4.7
18	7.5	5.8	5.0	6.4	5.4	5.2	5.7	6.9	6.5	5.9	4.6	4.6
19	7.5	5.9	5.2	6.4	5.3	5.2	6.2	6.7	6.5	5.8	4.6	4.9
20	7.3	5.9	5.2	6.4	5.2	5.2	6.7	6.7	6.6	6.1	4.6	4.8
21	7.2	6.0	5.2	6.4	5.2	5.2	7.3	6.3	6.4	5.8	4.6	4.7
22	6.8	6.0	5.3	6.4	5.2	5.2	7.9	6.0	6.2	10	4.5	4.8
23	6.9	6.0	5.3	6.4	5.2	5.2	8.3	5.9	6.3	17	4.5	5.0
24	6.9	6.1	5.3	6.4	5.2	5.2	8.5	5.9	6.2	7.2	4.5	4.9
25	6.8	6.2	5.2	6.4	5.2	5.2	8.8	5.6	6.1	6.5	4.5	4.8
26	6.8	6.1	5.2	6.3	5.4	5.2	8.6	5.6	6.1	6.1	4.5	4.5
27	6.6	5.9	5.1	6.0	5.6	5.2	7.8	5.6	6.0	5.7	4.5	4.4
28	6.8	5.7	5.0	5.7	5.8	5.2	7.5	5.6	5.8	5.7	4.5	4.4
29	6.7	5.5	5.1	5.7	-----	5.2	7.3	5.6	5.8	5.4	4.5	4.4
30	6.7	5.7	4.8	5.7	-----	5.2	7.5	6.0	5.7	5.4	4.5	4.4
31	6.8	-----	4.6	5.7	-----	5.2	-----	6.0	-----	5.4	4.5	-----
TOTAL	232.5	180.2	161.5	173.3	150.8	162.8	186.6	224.4	190.6	196.1	153.4	138.2
MEAN	7.50	6.01	5.21	5.59	5.39	5.25	6.22	7.24	6.35	6.33	4.95	4.61
MAX	8.5	6.8	6.1	6.4	5.8	5.8	8.8	8.9	6.7	17	6.1	5.0
MIN	6.6	5.5	4.6	4.5	5.0	5.2	5.2	5.6	5.7	5.4	4.5	4.3
AC-FT	461	357	320	344	299	323	370	445	378	389	304	274

CAL YR 1973 TOTAL 4,509.2 MEAN 12.4 MAX 83 MIN 3.0 AC-FT 8,940
WTR YR 1974 TOTAL 2,150.4 MEAN 5.89 MAX 17 MIN 4.3 AC-FT 4,270

PEAK DISCHARGE (BASE, 30 CFS).--July 22 (1600) 47 cfs (1.42 ft); July 23 (2000) 109 cfs (2.17 ft).

NOTE.--No gage-height record Jan. 9 to Apr. 22.

10241600 Summit Creek near Summit, Utah

LOCATION.--Lat 37°47'20", long 112°54'55", in SE¼ sec.6, T.35 S., R.9 W., Iron County, on left bank about 900 ft (274 m) upstream from concrete diversion dam, 1.2 miles (1.9 km) south of U.S. Highway 91, and 1.3 miles (2.1 km) southeast of Summit.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map. Prior to July 15, 1971, at site 600 ft (183 m) downstream at different datum.

AVERAGE DISCHARGE.--10 years, 4.57 ft³/s (0.129 m³/s), 3,310 acre-ft/yr (4.08 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 20 ft³/s (0.566 m³/s) May 8 (gage height, 2.21 ft or 0.674 m); minimum, 0.73 ft³/s (0.021 m³/s) Aug. 29.

Period of record: Maximum discharge, 858 ft³/s (24.3 m³/s) Aug. 6, 1971 (gage height, 4.25 ft or 1.295 m) from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft³/s (0.001 m³/s) Feb. 5-7, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.7	3.0	2.2	2.2	2.5	3.2	12	4.8	1.3	1.1	.87
2	2.0	2.7	3.0	2.2	2.2	2.7	3.5	13	5.1	1.3	1.3	.87
3	2.2	2.7	2.9	2.2	2.2	2.2	2.7	15	4.8	1.3	1.2	.87
4	2.2	2.5	2.8	2.3	2.1	3.0	2.7	15	4.6	1.3	1.1	.87
5	2.2	2.7	2.7	2.5	2.0	3.0	3.0	15	4.3	1.3	1.1	.95
6	2.2	2.7	2.7	2.5	2.0	2.5	3.2	15	4.3	1.3	1.0	1.0
7	2.2	2.7	2.7	2.2	2.0	2.2	3.0	15	4.0	1.2	1.0	.95
8	2.5	2.7	2.7	2.5	2.0	2.2	3.0	16	4.3	1.2	1.1	.87
9	3.0	2.7	2.7	2.2	2.0	2.0	3.2	17	4.0	1.2	1.0	.87
10	3.0	2.7	2.7	2.5	2.1	2.2	3.2	15	3.7	1.2	1.1	.87
11	2.7	2.7	2.7	2.3	2.2	2.0	3.2	14	3.5	1.2	1.0	.87
12	3.0	2.7	2.7	2.0	2.2	2.0	3.0	13	3.5	1.1	.95	.87
13	3.0	2.7	2.7	2.0	2.2	2.0	2.7	12	3.2	1.1	.95	.87
14	3.0	2.5	2.7	2.0	2.0	1.7	3.0	11	3.2	1.1	.95	.95
15	3.0	2.5	2.5	2.0	2.0	2.0	3.2	10	3.0	2.0	.87	.95
16	2.7	2.7	2.7	2.0	2.0	2.0	3.5	9.0	2.7	2.2	.87	.95
17	2.7	2.7	2.7	2.5	2.2	2.2	4.0	8.3	2.7	2.0	.87	.95
18	2.7	3.0	2.7	2.5	2.1	2.5	5.1	7.5	2.7	1.5	.87	.95
19	2.7	2.2	2.7	2.2	2.0	2.5	5.7	7.2	2.5	1.3	.87	.95
20	2.7	2.0	2.7	2.2	2.0	2.2	4.6	7.5	2.2	1.7	.87	.87
21	2.7	2.5	2.7	2.1	2.0	2.2	4.6	6.8	2.2	1.7	.87	.87
22	2.7	2.2	2.7	2.0	2.0	2.5	6.0	6.5	2.2	2.2	.87	.87
23	3.0	2.5	2.7	2.1	2.0	2.5	7.5	6.2	2.0	2.0	.87	.95
24	3.0	2.5	2.7	2.2	2.0	2.5	9.0	6.2	2.0	1.5	.87	.95
25	3.0	2.5	2.7	2.3	2.1	2.7	9.4	6.0	2.0	1.3	.87	.95
26	3.0	2.6	2.6	2.5	2.2	3.0	9.8	5.7	1.7	1.2	.87	.95
27	2.7	2.7	2.5	2.2	2.2	2.7	8.3	5.7	1.7	1.2	.87	.95
28	3.0	2.9	2.5	2.2	2.2	2.7	8.7	5.4	1.5	1.1	.87	.95
29	3.0	3.0	2.5	2.2	-----	2.7	9.0	5.4	1.5	1.1	.87	.95
30	3.0	3.0	2.5	2.2	-----	3.2	11	5.1	1.5	1.0	.87	.95
31	2.7	-----	2.5	2.2	-----	3.5	-----	5.1	-----	1.1	.87	-----
TOTAL	83.7	78.9	83.3	69.2	58.4	75.8	152.0	311.6	91.4	43.2	29.64	27.51
MEAN	2.70	2.63	2.69	2.23	2.09	2.45	5.07	10.1	3.05	1.39	.96	.92
MAX	3.0	3.0	3.0	2.5	2.2	3.5	11	17	5.1	2.2	1.3	1.0
MIN	2.0	2.0	2.5	2.0	2.0	1.7	2.7	5.1	1.5	1.0	.87	.87
AC-FT	166	156	165	137	116	150	301	618	181	86	59	55

CAL YR 1973 TOTAL 4,034.90 MEAN 11.1 MAX 238 MIN 1.0 AC-FT 8,000
WTR YR 1974 TOTAL 1,104.65 MEAN 3.03 MAX 17 MIN .87 AC-FT 2,190

PEAK DISCHARGE (BASE, 15 CFS).--May 8 (2000) 20 cfs (2.21 ft).

CEDAR CITY VALLEY

10242000 Coal Creek near Cedar City, Utah

LOCATION.—Lat 37°40'20" long 113°02'02", in SE¼SE¼NE¼ sec.13, T.36 S., R.11 W., Iron County, on right bank 600 ft (183 m) downstream from powerplant, 1.2 miles (1.9 km) east of Cedar City, and 3.0 miles (4.8 km) from the mouth of Right Hand Creek.

DRAINAGE AREA.—80.9 mi² (209.5 km²).

PERIOD OF RECORD.—May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

GAGE.—Water-stage recorder and concrete control. Altitude of gage is 6,000 ft (1,829 m) from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939, to May 14, 1945, water-stage recorder, at several sites about 0.5 mile (0.8 km) upstream at various datums. May 15, 1945, to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 miles (3 km) upstream at different datum. July 3, 1952, to Nov. 17, 1967, water-stage recorder, at site 600 ft (183 m) upstream at different datum.

AVERAGE DISCHARGE.—38 years (1935–37, 1938–74), 32.0 ft³/s (0.906 m³/s), 23,180 acre-ft/yr (28.6 hm³/yr).

EXTREMES.—Current year: Maximum discharge, 2,400 ft³/s (68.0 m³/s) July 16 (gage height, 6.72 ft or 2.048 m); minimum, 5.0 ft³/s (0.14 m³/s) Dec. 31.

Period of record: Maximum discharge, 4,620 ft³/s (131 m³/s) July 23, 1969 (gage height, 11.67 ft or 3.557 m, from floodmark), based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft³/s (0.008 m³/s) Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

REMARKS.—Records good. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City. Slight regulation at low flow by steam powerplant above station.

REVISION.—WSP 1714: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	13	12	13	15	19	67	27	11	11	7.4
2	12	12	11	9.1	12	19	17	82	26	11	12	7.3
3	12	12	10	9.7	12	15	17	96	25	11	11	7.3
4	12	11	12	12	13	13	18	101	24	11	13	7.3
5	12	11	12	13	13	14	21	105	24	10	12	7.8
6	12	11	12	13	12	17	26	99	23	10	11	8.8
7	12	12	14	13	12	18	26	103	22	9.9	11	7.5
8	12	12	13	12	12	15	26	119	21	10	11	7.1
9	15	11	13	12	13	15	24	126	21	10	10	7.0
10	14	11	14	10	14	15	21	109	20	10	10	6.8
11	13	11	14	11	15	15	21	87	18	9.7	9.5	6.7
12	13	12	12	13	14	19	21	79	18	9.2	9.2	7.0
13	13	12	12	12	14	21	18	59	18	9.2	8.9	7.0
14	13	11	12	12	13	31	22	52	17	9.5	8.9	7.0
15	13	11	11	13	13	31	26	49	16	12	8.7	7.1
16	12	11	13	14	15	36	30	49	16	49	8.5	6.9
17	12	11	12	16	15	29	34	41	16	17	8.5	6.8
18	12	12	13	14	13	20	36	41	15	14	8.3	6.8
19	12	11	11	13	13	20	33	40	15	11	8.1	6.6
20	12	11	11	13	11	19	26	39	14	19	8.1	6.6
21	12	13	12	13	13	23	28	38	14	20	8.1	6.5
22	12	11	12	9.0	14	21	36	36	14	30	8.1	6.4
23	12	12	12	12	13	21	42	35	14	21	8.0	6.6
24	12	11	11	12	13	22	45	34	14	14	7.9	6.4
25	12	11	11	13	14	23	49	33	13	11	7.7	6.3
26	12	11	8.9	13	14	18	52	33	13	10	7.7	6.5
27	12	9.7	13	12	14	12	50	33	12	10	7.6	6.5
28	12	12	13	13	15	19	52	33	12	10	7.4	6.5
29	12	13	12	12	-----	18	53	28	12	10	7.4	6.5
30	11	13	11	12	-----	23	59	29	12	10	7.3	6.4
31	12	-----	7.6	13	-----	22	-----	28	-----	11	7.4	-----
TOTAL	381	344.7	368.5	380.8	372	619	948	1,903	526	420.5	283.3	207.4
MEAN	12.3	11.5	11.9	12.3	13.3	20.0	31.6	61.4	17.5	13.6	9.14	6.91
MAX	15	13	14	16	15	36	59	126	27	49	13	8.8
MTN	11	9.7	7.6	9.0	11	12	17	28	12	9.2	7.3	6.3
AC-FT	756	684	731	755	738	1,230	1,880	3,770	1,040	834	562	411
CAL YR 1973	TOTAL 27,863.9 MEAN 76.3 MAX 919 MIN 7.6 AC-FT 55,270											
WTR YR 1974	TOTAL 6,754.2 MEAN 18.5 MAX 126 MIN 6.3 AC-FT 13,400											

PEAK DISCHARGE (BASE, 550 CFS).—July 16 (1400) 2,400 cfs (6.72 ft.).

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LOCATION.--Lat 41°55'07", long 113°28'51", in SE₄SW₄SW₄ sec.20, T.14 N., R.14 W., Box Elder County, on right bank 1,000 ft (305 m) upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi (7.2 km) southeast of Yost, 5 mi (8 km) south of Utah-Idaho State line, and 16 mi (26 km) southwest of Strevell, Idaho.

PERIOD OF RECORD.--July 1959 to current year.

AVERAGE DISCHARGE.--15 years, 7.39 ft³/s (0.209 m³/s) 5,350 acre-ft/yr (6.60 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 53 ft³/s (1.50 m³/s) May 27, 28 (gage height, 1.26 ft or 0.384 m); minimum, 1.2 ft³/s (0.034 m³/s) Sept. 21.
Period of record: Maximum discharge, 146 ft³/s (4.13 m³/s) June 10, 1963 (gage height, 1.96 ft or 0.597 m); minimum daily, 1.1 ft³/s (0.031 m³/s) several days in January and February 1962.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.2	2.2	1.9	1.6	1.5	2.5	11	33	12	3.0	2.2
2	2.5	3.4	2.2	1.8	1.6	1.5	2.4	13	34	11	3.2	2.2
3	2.5	3.5	2.0	2.0	1.6	1.6	2.3	14	35	10	3.2	2.2
4	2.5	3.3	2.2	2.0	1.6	1.4	2.2	14	37	8.7	2.9	2.1
5	2.3	3.3	2.1	2.0	1.6	1.4	2.2	18	36	8.3	2.8	2.0
6	2.3	3.4	1.9	2.0	1.5	1.6	2.2	21	33	7.8	2.8	2.0
7	2.3	3.8	2.0	2.0	1.5	1.6	2.1	23	31	6.7	3.0	1.8
8	3.1	4.9	1.9	2.0	1.5	1.4	2.1	25	27	6.5	2.9	1.9
9	2.6	4.1	1.8	2.0	1.5	1.4	2.2	27	25	5.8	2.8	1.8
10	2.6	3.5	1.9	2.0	1.5	1.5	2.1	25	24	5.7	2.8	2.0
11	3.9	3.5	2.0	2.0	1.5	1.6	2.3	22	23	5.3	2.7	1.9
12	4.4	3.7	2.0	1.8	1.5	1.7	2.3	20	24	4.8	2.6	2.1
13	5.0	3.5	2.0	1.8	1.5	1.8	2.2	20	26	4.5	2.5	1.9
14	5.6	3.4	2.0	1.7	1.5	1.8	2.3	19	28	4.3	2.5	2.0
15	5.6	3.3	2.0	1.9	1.5	2.1	2.6	18	28	4.5	2.5	1.7
16	5.3	3.3	2.0	2.0	1.5	2.7	3.2	16	27	4.7	2.5	1.7
17	5.1	3.0	2.0	1.8	1.5	3.2	4.2	16	25	4.6	2.4	1.7
18	5.1	3.1	2.0	1.7	1.4	3.0	6.6	16	21	4.2	2.4	1.7
19	5.2	2.8	1.9	1.8	1.5	2.7	7.4	17	20	4.0	2.5	1.6
20	4.7	2.4	1.8	1.8	1.5	2.4	6.6	17	19	4.5	2.5	1.6
21	3.5	3.0	2.0	1.7	1.4	2.4	6.0	18	19	4.0	2.5	1.5
22	3.6	3.0	2.0	1.7	1.5	2.2	7.9	18	18	3.7	2.4	1.4
23	3.8	2.9	2.0	1.8	1.5	2.2	12	19	18	3.8	2.3	1.5
24	4.1	2.5	2.0	1.6	1.4	2.2	14	21	18	3.8	2.3	1.4
25	4.1	2.5	1.8	1.6	1.4	2.2	15	25	17	3.4	2.3	1.5
26	3.8	2.5	1.8	1.7	1.4	2.4	14	34	17	3.3	2.3	1.5
27	3.9	2.5	1.8	1.6	1.4	2.5	11	48	16	3.3	2.3	1.6
28	3.8	2.4	2.0	1.6	1.4	2.5	10	48	15	3.3	2.3	1.5
29	3.7	2.3	1.9	1.6	-----	2.4	8.6	41	13	3.3	2.3	1.5
30	3.5	2.3	1.9	1.6	-----	2.5	8.9	36	13	3.2	2.2	1.5
31	3.8	-----	2.0	1.6	-----	2.6	-----	34	-----	3.0	2.2	-----
TOTAL	116.7	95.3	61.1	56.1	41.8	64.0	169.4	714	720	166.0	79.9	53.0
MEAN	3.76	3.18	1.97	1.81	1.49	2.06	5.65	23.0	24.0	5.35	2.58	1.77
MAX	5.6	4.9	2.2	2.0	1.6	3.2	15	48	37	12	3.2	2.2
MIN	2.3	2.3	1.8	1.6	1.4	1.4	2.1	11	13	3.0	2.2	1.4
AC=FT	231	189	121	111	83	127	336	1,420	1,430	329	158	105
CAL YR 1973	TOTAL	3,132.4	MEAN	8.58	MAX	55	MIN	1.8	AC=FT	6,210		
WTR YR 1974	TOTAL	2,337.3	MEAN	6.40	MAX	48	MIN	1.4	AC=FT	4,640		

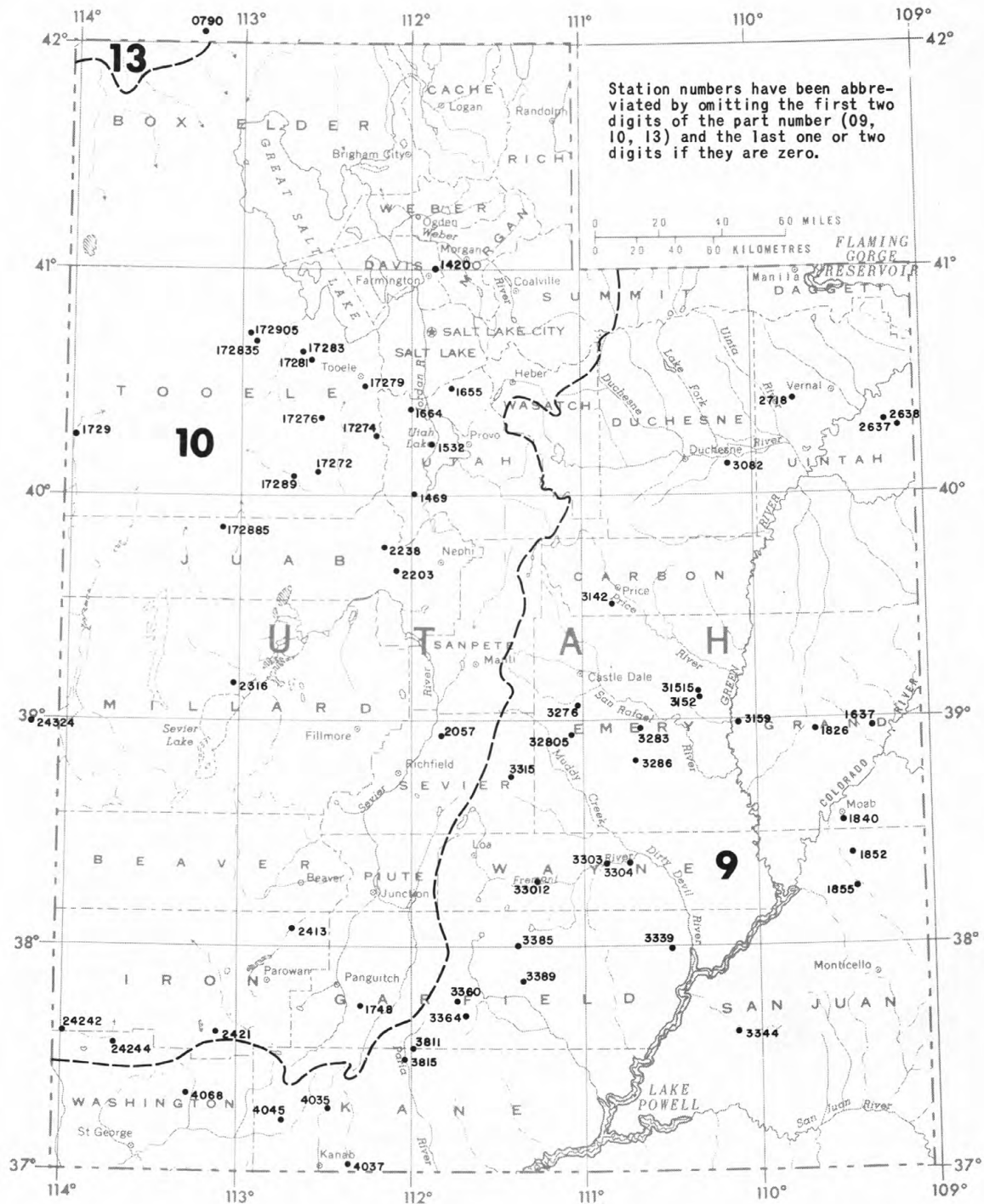


Figure 3.—Map of Utah showing location of crest-stage partial-record stations.

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 analyses, 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 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 generally presented in two tables. However, no records at low-flow partial-record stations are available for the 1974 water year. A table of annual maximum discharge at crest-stage stations is given first, followed by a table of measurements made at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from 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 (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Part 9 Tributaries between Utah-Colorado State line and Dolores River							
09163700	Cisco Wash near Cisco, Utah	Lat 38°58', long 109°20', in SE¼ sec.23, T.21 S., R.23 E., 1 mi (1.6 km) west of Cisco and about 7.5 mi (12.1 km) above mouth.	a29	1959-74	-	-	(b)
Tributaries between Dolores River and Green River							
09182600	Salt Wash near Thompson, Utah	Lat 38°57', long 109°39', in SE¼SW¼ sec.25, T.21 S., R.20 E., 3 mi (4.8 km) east of Thompson.	a3.9	1959-74	1974	11.20	79
09185200	Kane Springs Canyon near Moab, Utah	Lat 38°24', long 109°27', center of sec.1, T.28 S., R.22 E., 7 mi (11 km) northwest of La Sal Junction and 15 mi (24 km) south of Moab.	17.8	1959-74	1974	13.25	960
Green River basin							
09263700	Cliff Creek near Jensen, Utah	Lat 40°18', long 109°08', in NW¼ sec.20, T.6 S., R.25 E., about 0.7 mi (1.1 km) north on Harper road and 13 mi (21 km) east of Jensen bridge.	a64	1960-74	1974	12.10	360
09263800	Cow Wash near Jensen, Utah	Lat 40°19', long 109°13', in NE¼ sec.16, T.6 S., R.24 E., on U.S. Highway 40, 7.8 mi (12.6 km) east of Jensen bridge.	a3.9	1960-74	1974	11.87	220
09271800	Halfway Hollow tributary near LaPoint, Utah	Lat 40°25', long 109°45', in NE¼ sec.2, T.5 S., R.19 E., 3.0 mi (4.8 km) east of LaPoint on State Highway 121.	a5.6	1960-74	1974	12.23	335
09308200	Pleasant Valley Wash tributary near Myton, Utah	Lat 40°07', long 110°08', center of sec.20, T.4 S., R.2 W., Uintah meridian, 5.5 mi (8.8 km) southwest on State Highway 53 from junction of U.S. Highway 40 and State Highway 53 and 7.3 mi (11.7 km) southwest of Myton.	a15	1960-74	1974	-	(b)
09314200	Miller Creek near Price, Utah	Lat 39°32', long 110°49', in SE¼ sec.17, T.15 S., R.10 E., at upstream side of bridge on State Highway 10, 5.5 mi (8.8 km) south of Price.	a62	1960-74	1974	-	(b)
09315150	Saleratus Wash tributary near Woodside, Utah	Lat 39°08', long 110°20', in NE¼ sec.34, T.19 S., R.14 E., on U.S. Highway 6 and 50, 5.3 mi (8.5 km) south from railroad underpass and 10 mi (16 km) south of Woodside.	a10	1959-74	2- 1-74	10.5	72
09315200	Saleratus Wash tributary No. 2 near Woodside, Utah	Lat 39°06', long 110°19', in NW¼ sec.11, T.20 S., R.13 E., on U.S. Highway 6 and 50, 7.3 mi (11.7 km) south from railroad underpass and 12 mi (19 km) south of Woodside.	a4.4	1959-74	9-18-74	10.50	20
09315900	Browns Wash tributary near Green River, Utah	Lat 38°59', long 110°06', in NE¼SE¼ sec.13, T.21 S., R.16 E., about 3.5 mi (5.6 km) east of Green River and 15 mi (24 km) west of Crescent Junction.	3.89	1959-74	-	-	0
09327600	Ferron Creek tributary near Ferron, Utah	Lat 39°04', long 111°02', in NE¼ sec.21, T.20 S., R.8 E., 6.6 mi (10.6 km) east of Ferron and 10 mi (16 km) south of Castle Dale.	.90	1959-74	1974	-	(b)
09328050	Dry Wash near Moore, Utah	Lat 38°56', long 111°04', in SW¼ sec.31, T.21 S., R.8 E., 5 mi (8 km) southeast of Moore and about 9.5 mi (15.3 km) northeast of Emery.	a14	1959-74	1974	-	(b)

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Part 9 Green River basin--Continued							
09328300	Sids Draw near Castle Dale, Utah	Lat 38°59', long 110°40', in sec.23, T.21 S., R.11 E. (unsurveyed), about 8.5 mi (13.7 km) south of San Rafael River bridge along the Castle Dale-Temple Junction road and 24 mi (39 km) southeast of Castle Dale.	17.6	1959-74	1974	-	(b)
09328600	Georges Draw near Hanksville, Utah	Lat 38°49', long 110°42', in SW¼SW¼ sec.9, T.23 S., R.11 E., 25 mi (40 km) south of San Rafael River bridge along the Castle Dale-Temple Junction road and 31 mi (50 km) north of Hanksville.	6.63	1959-74	1974	-	(b)
Dirty Devil River basin							
09330120	Sulphur Creek near Fruita, Utah	Lat 38°18', long 111°16', in NW¼ sec.15, T.29 S., R.6 E., at west entrance to Capitol Reef National Monument, 1 mi (1.6 km) west of Fruita.	56.7	1959-74	1974	11.90	270
09330300	Neilson Wash near Caineville, Utah	Lat 38°22', long 110°53', in NW¼NW¼ sec.19, T.28 S., R.10 E., 8 mi (13 km) east of Caineville and 9 mi (14 km) west of Hanksville.	22.3	1959-74	1974	-	(b)
09330400	Fremont River near Hanksville, Utah	Lat 38°22', long 110°45', in SW¼ sec.17, T.28 S., R.11 E., at masonry diversion dam, 2.2 mi (3.5 km) west of Hanksville.	a1,900	1959-74	1974	-	(b)
09331500	Ivie Creek above diversions, near Emery, Utah	Lat 38°46', long 111°25', in NW¼NW¼ sec.1, T.24 S., R.4 E., about 1.2 mi (1.9 km) below Clear Creek and 14 mi (23 km) southwest of Emery.	a50	#1950-61 *1962-74	9-18-74	12.80	235
North Wash basin							
09333900	Butler Canyon near Hite, Utah	Lat 37°60', long 110°30', in sec.29, T.32 S., R.13 E. (unsurveyed), on State Highway 95, about 2.5 mi (4.0 km) west of Hog Canyon Spring, about 12.5 mi (20.1 km) from mouth of North Wash, and 13 mi (21 km) northwest of Hite.	14.7	1959-74	-	11.60	260
White Canyon basin							
09334400	Fry Canyon near Hite, Utah	Lat 37°37', long 110°30', in sec.29, T.32 S., R.16 E. (unsurveyed), 2 mi (3.2 km) southeast of Fry Canyon store, 3 mi (5 km) above mouth, and 22 mi (35 km) southeast of Hite.	20.9	1959-74	1974	-	(b)
Escalante River basin							
09336000	Birch Creek near Escalante, Utah	Lat 37°46', long 111°44', in SE¼ sec.13, T.35 S., R.1 E., 2 mi (3.2 km) above mouth and 7 mi (11 km) west of Escalante.	a36	#1950-51 1959-74	-	11.26	165
09336400	Upper Valley Creek near Escalante, Utah	Lat 37°44', long 111°43', in NW¼NW¼ sec.29, T.35 S., R.2 E., 2.2 mi (3.5 km) above mouth and 7 mi (11 km) west of Escalante.	a53	1959-74	1974	12.35	630
09338500	East Fork Deer Creek near Boulder, Utah	Lat 38°00', long 111°23', in sec.29, T.32 S., R.5 E. (unsurveyed), 1 mi (1.6 km) above West Fork Deer Creek and 8 mi (13 km) north of Boulder.	a1.9	#1950-55 1959-74	1974	-	(b)
09338900	Deer Creek near Boulder, Utah	Lat 37°51', long 111°21', in NE¼ sec.16, T.34 S., R.5 E., about 3.5 mi (5.6 km) above mouth and 6.4 mi (10.3 km) east of Boulder.	a63	1959-74	1974	9.53	74
Paria River basin							
09381100	Henrieville Creek at Henrieville, Utah	Lat 37°34', long 111°59', in NW¼ sec.26, T.37 S., R.2 W., at irrigation diversion dam 1 mi (1.6 km) east of Henrieville.	a34	1959-74	1974	12.56	860
09381500	Paria River near Cannonville, Utah	Lat 37°30', long 112°02', T.38 S., R.2 W. (unsurveyed), about 3 mi (5 km) above Sheep Creek and about 6 mi (10 km) south of Cannonville.	a220	#1950-55 1959-74	1974	6.45	1,050

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Part 9 Kanab Creek basin							
09403500	Kanab Creek near Glendale, Utah	Lat 37°17', long 112°29', in NE¼ sec.35, T.40 S., R.6 W., 7.4 mi (11.9 km) southeast of Glendale and 10 mi (16 km) south of Alton.	a72	1959-74	1974	1.59	29
09403700	Johnson Wash near Kanab, Utah	Lat 37°02', long 112°21', in SE¼ sec.24, T.43 S., R.5 W., 1.2 mi (1.9 km) north of U.S. Highway 89 and 11 mi (18 km) east of Kanab.	237	1959-74	1974	13.58	950
Virgin River basin							
09404500	Mineral Gulch near Mount Carmel, Utah	Lat 37°14', long 112°44', in NW¼ sec.22, T.41 S., R.8 W., about 3.2 mi (5.1 km) west of Mount Carmel Junction and 6 mi (10 km) south-west of Orderville.	a7.6	1959-74	1974	2.33	570
09406800	South Ash Creek near Pintura, Utah	Lat 37°21', long 113°17', in NE¼ sec.11, T.40 S., R.13 W., 0.9 mi (1.4 km) south of Pintura and 3.4 mi (5.5 km) north of Anderson Junction.	14.0	1959-74	1974	10.56	125
Part 10 Tributaries between Weber and Jordan Rivers							
10142000	Farmington Creek abv div. nr. Farmington, Utah	Lat 41°00'05", long 111° 52'21" in NE¼NE¼NE¼ sec. 18, T.3 N., R. 1 E., Davis County 1.0 mile northeast of Farmington.	10.0	*1949-71 *1972-74	5-05-72 5-19-73 5-09-74	1.60 1.96 2.05	142 286 322
Jordan River basin							
10146900	Utah Lake tributary near Elberta, Utah	Lat 40°01', long 111°59', in SE¼SE¼ sec.19, T.9 S., R.1 W., 1.2 mi (1.9 km) west of State Highway 68 on left bank and 4.2 mi (6.8 km) north of Elberta.	4.71	1961-74	1974	-	(b)
10153200	Big Cove Wash near Lehi, Utah	Lat 40°14', long 111°53', in NW¼ sec.7, T.7 S., R.1 E., on right bank about 11.5 mi (18.5 km) south of Lehi.	.44	1961-74	-	-	0
10165500	Dry Creek near Alpine, Utah	Lat 40°29', long 111°45', in NE¼ sec.18, T.4 S., R.2 E., on right bank 2 mi (3.2 km) northeast of Alpine and about 3.5 mi (5.6 km) above Fort Creek.	9.82	*1947-55 *1959-74	5-27-74	1.40	145
10166400	Tickville Gulch near Cedar Valley, Utah	Lat 40°23', long 112°00', in SE¼SE¼ sec.13, T.5 S., R.2 W., on left bank at culvert on State Highway 73, 6.5 mi (10 km) northeast of Cedar Valley.	15.6	1961-74	1974	13.09	120
Rush Valley							
10172720	East Government Creek tributary near Vernon, Utah	Lat 40°06', long 112°33', in SE¼ sec.17, T.8 S., R.6 W., 0.5 mi (0.8 km) below "Lookout Pass" and 6 mi (10 km) northwest of Vernon.	a0.98	1961-74	1974	-	(b)
10172740	Rush Valley tributary near Fairfield, Utah	Lat 40°15', long 112°12', in SE¼NW¼ sec.32, T.6 S., R.3 W., 6 mi (10 km) west of Fairfield.	.26	1961-74	8- 8-74	10.07	9.2
10172760	Clover Creek near Clover, Utah	Lat 40°20', long 112°32', in SE¼NE¼ sec.32, T.5 S., R.6 W., 75 ft (23 m) above milepost 15 on State Highway 58 and 4.3 mi (6.9 km) west of Clover.	4.45	1961-74	1974	10.29	48
Tooele Valley							
10172790	Settlement Canyon near Tooele, Utah	Lat 40°29', long 112°17', in SE¼ sec.10, T.4 S., R.4 W., about 3.5 mi (5.6 km) south of Tooele.	5.77	1961-74	1974	11.00	57
10172810	Mack Canyon near Grantsville, Utah	Lat 40°36', long 112°35', in NE¼ sec.36, T.2 S., R.7 W., about 50 ft (15 m) below Dry Canyon, 0.7 mi (1.1 km) above drift fence, and 4.5 mi (7.2 km) west of Grantsville.	2.84	1961-74	1974	10.08	.6
Skull Valley							
10172830	North Fork Muskrat Canyon near Timpie, Utah	Lat 40°38', long 112°38', in NW¼ sec.21, T.2 S., R.7 W., 8 mi (13 km) south of Timpie.	1.78	1961-74	1974	-	(b)
10172835	Skull Valley tributary near Delle, Utah	Lat 40°41', long 112°55', in NW¼ sec.31, T.1 S., R.9 W., on right bank 300 ft (91 m) above road crossing and about 8 mi (13 km) southwest of Delle.	a1.5	1960-74	1974	-	(b)

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 (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Part 10							
Great Salt Lake Desert							
10172885	Great Salt Lake Desert tributary No. 2 near Dugway, Utah	Lat 39°52', long 113°07', in SE¼SW¼ sec.17, T.11 S., R.11 W. (unsurveyed), 1.5 mi (2.4 km) west of Dugway Pass along Simpson Springs-Callao road and about 32 mi (51 km) southwest of Dugway.	5.48	1961-74	7-16-74	10.10	15
10172890	Government Creek near Dugway, Utah	Lat 40°05', long 112°42', in NW¼NE¼ sec.36, T.8 S., R.8 W., on Simpson Springs-Callao road 0.6 mi (1.0 km) west of road ford, 0.7 mi (1.1 km) east of water tank south of road, and 12.4 mi (20.0 km) by road south of Dugway.	a59	1961-74	1974	-	(b)
10172900	Bar Creek near Ibapah, Utah	Lat 40°15', long 113°59', T.7 S., R.19 W. (unsurveyed), about 0.5 mi (0.8 km) above mouth and 15 mi (24 km) north of Ibapah.	a12	1959-74	7-17-74	10.80	630
10172905	Great Salt Lake Desert tributary near Delle, Utah	Lat 40°43', long 112°57', in NW¼ sec.24, T.1 S., R.10 W., on left bank 1.0 mi (1.6 km) below Hastings Pass and 7 mi (11 km) southwest of Delle.	.97	1961-74	1974	-	(b)
Sevier Lake basin							
10174800	Red Canyon tributary near Bryce Canyon, Utah	Lat 37°44', long 112°17', in sec.27, T.35 S., R.4½ W. (unsurveyed), about 500 ft (152 m) above bridge, about 0.2 mi (0.3 km) east of east tunnel on State Highway 12, and 10 mi (16 km) southeast of Panguitch.	a2.2	1959-74	1974	-	(b)
10205700	Salina Creek above diversions, near Salina, Utah	Lat 38°56', long 111°49', in NW¼ sec.5, T.22 S., R.1 E., on right bank at flood dam along State Highway 10 and 3.5 mi (5.6 km) southeast of Salina.	280	1959-74	1974	11.46	430
10220300	Tintic Wash tributary near Nephi, Utah	Lat 39°40', long 112°05', in NE¼ sec.19, T.13 S., R.2 W., at road culvert on State Highway 148, 1.7 mi (2.1 km) west of junction with State Highway 132, and 13.7 mi (22.0 km) west of Nephi.	a18	1961-74	3- 2-74	13.11	170
10223800	Hop Creek near Jericho, Utah	Lat 39°46', long 112°09', in NW¼NW¼ sec.23, T.12 S., R.3 W., on left bank about 3.5 mi (5.6 km) northeast of Jericho.	1.81	1961-74	1974	7.34	1.2
Parowan Valley							
10241300	Fremont Wash near Paragonah, Utah	Lat 38°05', long 112°41', in SE¼ sec.30, T.31 S., R.7 W., 50 ft (15 m) above bridge on old U.S. Highway 91 and 14.5 mi (23.3 km) north of Paragonah.	a120	1959-74	1974	10.89	103
Cedar City Valley							
10242100	Shirts Creek near Cedar City, Utah	Lat 37°37', long 113°07', in NE¼ sec.5, T.37 S., R.11 W., 1.1 mi (1.8 km) south of junction with U.S. Highway 91 and 5.3 mi (8.5 km) southwest of Cedar City.	12.8	1959-74	1974	13.15	265
Escalante Valley							
10242420	Shoal Creek near Enterprise, Utah	Lat 37°37', long 113°59', in SW¼ sec.28, T.36 S., R.19 W., 16.6 mi (26.7 km) northwest of Enterprise on State Highway 120.	a19	1961-74	1974	10.80	38
10242440	Cottonwood Creek near Enterprise, Utah	Lat 37°34', long 113°42', in SW¼ sec.18, T.37 S., R.16 W., on right bank 60 ft (18 m) above concrete culvert, 0.3 mi (0.5 km) south of Dixie National Forest boundary, and 1.6 mi (2.6 km) southeast of junction of State Highways 18 and 120 at Enterprise.	a6.0	1961-74	1974	12.90	285
Snake Valley							
10243240	Baker Creek at narrows, near Baker, Nev.	Lat 38°59', long 114°13', in NE¼ sec.22, T.13 N., R.69 E., at narrows, 1,200 ft (366 m) below Pole Canyon and about 5.2 mi (8.4 km) southwest of Baker.	16.4	#1948-55 *1960-74	5-20-74	1.54	14

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Part 13		Raft River basin					
13079000	Clear Creek near Naf, Idaho	Lat 41°58', long 113°17', in SE¼NW¼ sec.1, T.14 N., R.13 W., 2 mi (3.2 km) south of Utah-Idaho State line and 3 mi (5 km) south of Naf.	20.2	#1944-70 *1971-74	1974	1.94	320

a Approximately.

b Discharge not determined.

Operated as a continuous-record gaging station.

* Operated as a continuous-record gaging station; only annual peaks published.

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Part 10		Bear River basin				
Cub River	Bear River	Lat 42°02'30", long 111°48'26", in NW ¹ / ₄ SE ¹ / ₄ sec. 20, T.16 S., R.40 E., Franklin County, at Union Pacific Railroad trestle, 0.2 mi (0.3 km) west of U.S. Highway 91, 0.2 mi (0.3 km) north of Del Monte Plant at Franklin, Idaho.	-	-	7-29-74 8- 1-74 9-20-74	49.6 * 8.99 * 5.45
Ricks Spring	Logan River	Lat 41°50'30", long 111°35'20", (unsurveyed), Cache County, on downstream side of bridge on U.S. Highway 89 and 12.7 mi (20.4 km) east of Smithfield.	-	1968-70 1972-73	3-22-74 3-30-74 4- 5-74 4-25-74	No flow a 0.5 a 1.0 a 4.0
Tributaries between Weber and Jordan Rivers						
Kays Creek	Great Salt Lake	Lat 41°02'30", long 111°59'38", in SW ¹ / ₄ NE ¹ / ₄ sec. 31, T.4 N., R.1 W., Davis County, 3 mi (4.8 km) west of Kaysville	-	-	3-14-74 3-29-74 5- 3-74 6-14-74 7- 3-74 8- 2-74 8-16-74 8-28-74 9-13-74	14.0 9.87 24.0 23.0 22.3 15.0 1.28 23.6 19.9
Holmes Creek	Great Salt Lake	Lat 41°01'28", long 111°57'51", in SE ¹ / ₄ NW ¹ / ₄ sec.4, T.3 N., R.1 W., Davis County, 2 mi (3.2 km) southwest of Kaysville.	-	-	3-14-74 3-29-74 4-12-74 5- 3-74 6-14-74 7- 3-74 8- 2-74 8-16-74 8-28-74 9-13-74	6.93 5.88 67.6 19.2 9.67 .26 3.82 1.43 4.96 3.58
Baer Creek	Great Salt Lake	Lat 41°00'16", long 111°56'37", in SE ¹ / ₄ SW ¹ / ₄ sec. 10, T.3 N., R.1 W., Davis County, 2 mi (3.2 km) south of Kaysville.	-	-	3-14-74 3-29-74 4-12-74 5- 3-74 6-14-74 7- 3-74 8- 2-74 8-16-74 8-28-74 9-13-74	6.68 6.15 13.4 17.6 8.59 15.7 5.59 6.31 9.50 7.01
Sevier Lake basin						
Warm Creek	Snake Valley	Lat 39°27'20", long 114°01'30", in SE ¹ / ₄ sec.31, T.15 S., R.19 W., Millard County, 1 mi (1.6 km) west of Gandy.	-	-	3- 6-74 9- 5-74	13.4 12.9

* Base flow.

a Field estimate.

Compilation of data for flow through the two 15-ft (4.6 m) culverts in the Southern Pacific Transportation Co. causeway across Great Salt Lake

Part 10		Great Salt Lake basin				
Date of observation	EAST CULVERT Lat 41°13'17", long 112°33'36" 3.2 mi (5.1 km) west along the railroad causeway from the east end of the causeway			WEST CULVERT Lat 41°13'24", long 112°40'00" 8.2 mi (13.2 km) west along the railroad causeway from the east end of the causeway		
	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
Oct. 24, 1968	a 424	1.157	-	a 450	-	-
	b 52	1.230	13.0	b 0	-	-
Nov. 15	a 453	1.156	-	a 484	-	7.0
	b 41	1.232	7.0	b 0	-	-
Dec. 5	a 503	1.154	4.0	a 547	-	2.0
	b 32	1.232	7.0	b 0	-	-
17	a -	-	-	a 378	-	3.0
	b -	-	-	b 0	-	-
Jan. 7, 1969	a 438	1.157	1.5	a 386	-	1.0
	b 18	1.226	1.5	b 0	-	-
16	a 521	1.150	1.0	a 405	1.154	1.0
	b 28	1.225	2.0	b 0	-	-
Feb. 5	a 500	1.150	1.0	a 550	1.146	0.5
	b 43	1.221	1.0	b 0	-	-
18	a 556	1.135	3.0	a 584	1.138	4.0
	b 42	1.221	3.0	b 0	-	-
Mar. 4	a 213	1.140	4.5	a 238	1.144	4.0
	b 226	1.211	5.0	b 44	1.187	4.0
26	a 684	1.121	6.0	a 706	1.131	6.5
	b 43	1.217	7.0	b 0	-	-
Apr. 23	a1,100	1.116	16.0	a1,010	1.124	16.0
	b 0	1.215	12.0	b 0	-	-
May 13	a 810	1.127	19.0	a 738	1.128	17.0
	b 40	1.221	18.0	b 0	-	-
June 4	a 627	1.127	22.0	a 385	-	23.0
	b 62	1.222	22.0	b 0	-	-
17	a 514	1.130	22.0	a -	-	-
	b 104	1.227	22.0	b -	-	-
July 15	a 614	1.129	26.0	a 110	1.128	26.0
	b 71	1.225	23.0	b 0	-	-
Aug. 6	a 504	1.139	24.0	a 0	-	-
	b 89	1.226	22.0	b 0	-	-
19	a 508	1.142	24.0	a 0	-	-
	b 79	1.226	22.0	b 0	-	-
Sept. 15	a 412	1.145c	21.0	a 0	-	-
	b 95	1.225c	22.0c	b 0	-	-
Oct. 15	a 471	1.155	8.0	a 0	-	-
	b 56	1.230	12.0	b 0	-	-
Dec. 15	a 556	1.140	3.0	a 391	1.145	2.0
	b 40	1.232	4.5	b 0	-	-
Jan. 15, 1970	a 507	1.140	1.0	a 297	1.140	1.0
	b 28	1.222	2.5	b 0	-	-
Feb. 17	a 292	1.136	4.0	a 169c	-	4.0
	b 46	1.215	4.0	b 0	-	-
Mar. 16	a 498	1.136	6.0	a 316	1.136	6.5
	b 27	1.221	6.5	b 0	-	-
Apr. 15	a -	-	-	a 525	1.136	7.5
	b -	-	-	b 0	-	-
May 15	a 594	1.134	13.5	a 331	1.133	13.0
	b 29	1.221	12.5	b 0	-	-
June 16	a 643	1.130	18.0	a 462	1.129	19.0
	b 26	1.226	17.0	b 0	-	-
July 16	a 452	1.133	24.0	a 402	1.130	24.5
	b 29	1.225	22.0	b 0	-	-
Aug. 17	a 476	1.137	25.5	a 375	1.135	26.0
	b 24	1.228	25.0	b 0	-	-
Sept. 16	a 439	1.145	16.5	a 0	-	-
	b 20	1.232	17.0	b 0	-	-
Oct. 27	a 429	1.146	9.5	a 0	-	-
	b 24	1.229	11.0	b 0	-	-
Nov. 16	a 522	1.144	6.5	a 0	-	-
	b 24	1.232	9.0	b 0	-	-
Dec. 2d	a 640	1.133	5.0	a 0	-	-
	b 18	-	6.0	b 0	-	-
2e	a 1c	1.133c	-	a -	-	-
	b 289	-	-	b -	-	-
15	a 619	1.145	5.0	a 0	-	-
	b 0	-	-	b 0	-	-
Jan. 15, 1971	a 591	1.137	-1.0	a 0	-	-
	b 25	1.204	0.0	b 0	-	-
Feb. 23	a 682	1.128	2.0	a 0	-	-
	b 20	-	2.5	b 0	-	-
Mar. 10	a 730	1.132	4.0	a 0	-	-
	b 9	-	-	b 0	-	-
Apr. 15	a 618	1.124	10.0	a 776	1.123	10.0
	b 38	1.195	10.5	b 0	-	-

See footnotes at end of table.

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES

Compilation of data for flow through the two 15-ft (4.6 m) culverts in the Southern Pacific Transportation Co. causeway across Great Salt Lake--Continued

Great Salt Lake basin--Continued						
Date of observation	EAST CULVERT			WEST CULVERT		
	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
May 18, 1971	a 825	1.116	14.0	a 854	1.118	13.0
	b 45	1.178	14.5	b 0	-	-
26	a 835	1.108c	14.0c	a 916	-	-
	b 41	1.179	16.0	b 0	-	-
June 8	a 711	1.101	18.0	a1,000	-	-
	b 45	1.193	18.0	b 0	-	-
14	a 767	1.106	18.5	a -	-	-
	b 44	1.185	19.0	b -	-	-
15	a -	-	-	a1,020	-	-
	b -	-	-	b 0	-	-
July 15	a 734	1.108	23.5	a 791	-	24.0
	b 45	1.198	23.0	b 0	-	-
Aug. 16	a 549	1.110	26.0	a 527	-	26.0
	b 38	1.214	26.5	b 36	-	-
Sept. 1	a 478	1.112	22.5	a -	-	-
	b 40	-	-	b -	-	-
7	a -	-	-	a 377	1.115	20.0
	b -	-	-	b 21	1.220	20.5
15	a 498	1.114	20.0	a -	-	-
	b 42	1.218	21.0	b -	-	-
Nov. 2	a 703	1.116	7.5	a 0	-	-
	b 59	1.195	7.0	b 0	-	-
15	a 653	1.114	7.0	a 0	-	-
	b 49	1.210	7.0	b 0	-	-
Dec. 15	a 696	1.108	0.0	a 857	-	-
	b 51	1.190	1.0	b 0	-	-
Jan. 17, 1972	a 545	1.100	-1.0	a 788	-	-
	b 45	1.186	0.0	b 0	-	-
Feb. 15	a 572	1.100	0.5	a 680	1.106	0.0
	b 41	1.212	1.5	b 46	1.188	1.0
Mar. 16	a 784	1.091	10.0	a 889	1.092	9.5
	b 61	1.192	7.0	b 18	1.107	6.0
Apr. 21	a 942	1.088	9.0	a 0	-	-
	b 88	1.214	8.5	b 0	-	-
May 15	a 986	1.084	16.5	a1,530	-	-
	b 73	1.200c	16.5	b 0	-	-
June 15	a 764	1.090	23.0	a1,310	-	-
	b 63	1.200c	22.5	b 0	-	-
July 21	a 594	1.094	24.0	a 830	1.094	24.0
	b 62	1.201	24.5	b 0	-	-
Aug. 15	a 473	1.097c	25.5c	a 899	1.098	26.0
	b 84	1.202c	-	b 0	-	-
Sept. 15	a 532	1.104	20.0	a 572	-	-
	b 69	1.208	21.0	b 0	-	-
Nov. 28	a 723	1.102	4.0	a -	-	-
	b 58	1.182	5.0	b -	-	-
Dec. 15	a 748	1.101	-4.0	a 0	-	-
	b 57	1.173	-1.0	b 0	-	-
Jan. 15, 1973	a 667	1.100	-2.0	a 17	-	-
	b 61	1.180	-1.0	b 0	-	-
Feb. 15	a 777	1.092	1.0	a -	-	-
	b 76	1.160	0.5	b -	-	-
Mar. 15	a 884	1.092	5.0	a 827	1.093	4.5
	b 71	1.166	6.0	b 0	-	-
Apr. 16	a 993	1.087	9.0	a1,000	1.090	9.5
	b 77	1.138	9.0	b 0	-	-
May 11	a -	-	-	a 937	1.087	16.0
	b -	-	-	b 0	-	-
June 20	a 976	1.078	17.0	a 716	1.082	18.5
	b 0	-	-	b 0	-	-
July 16	a 824	1.081	24.0	a 897	1.082	25.0
	b 0	-	-	b 0	-	-
Aug. 15	a 718	1.086	26.0	a1,020	1.086	27.0
	b 19	1.155	26.0	b 0	-	-
Sept. 14	a 603	1.092	20.0	a 355	1.093	20.0
	b 9.8	1.184	21.0	b 0	-	-
Oct. 30	a1,060	1.095	10.5	a 0	-	-
	b 0	-	-	b 0	-	-
Nov. 15	a 879	1.088	7.0	a 871	1.096	8.0
	b 0	-	-	b 0	-	-
Dec. 19	a1,050	1.097	3.0	a 945	1.096	3.0
	b 0	-	-	b 0	-	-
Jan. 16, 1974	a 909	1.092	-1.0	a 953	1.092	-1.0
	b 0	-	-	b 0	-	-
Feb. 15	a 959	1.090	2.0	a 967	1.090	2.0
	b 0	-	-	b 0	-	-
Mar. 15	a1,100	1.088	7.0	a1,100	1.083	7.0
	b 0	-	-	b 0	-	-
Apr. 15	a1,020	1.064	10.5	a1,280	1.076	11.0
	b 0	-	-	b 0	-	-

Compilation of data for flow through the two 15-ft (4.6 m) culverts in the Southern Pacific Transportation Co. causeway across Great Salt Lake--Continued

Great Salt Lake basin--Continued						
Date of observation	EAST CULVERT			WEST CULVERT		
	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
May 24, 1974	a 968	1.078	16.5	a1,400	1.076	18.5
	b 0	-	-	b 0	-	-
June 17	a 958	1.075	24.0	a1,380	1.073	24.5
	b 0	-	-	b 0	-	-
July 16	a 737	1.080	25.5	a1,150	1.080	25.5
	b 0	-	-	b 0	-	-
Aug. 15	a 558	1.085	24.0	a 950	1.084	23.5
	b 0	-	-	b 0	-	-
Sept. 16	a 361	1.089	20.0	a 848	1.087	20.5
	b 0	-	-	b 0	-	-
Oct. 15	a 510	1.092	15.5	a 543	1.092	16.0
	b 0	-	-	b 0	-	-

a Flowing from south to north.

b Flowing from north to south underneath south to north flow.

c Estimated value.

d Storm day; estimated stage difference at time of measurement 0.93 ft (0.28 m).

e Storm day; estimated stage difference at time of measurement 0.33 ft (0.10 m).

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