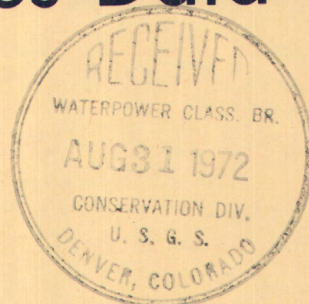


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Water Resources Data for Utah



Part 1. Surface Water Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
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1971

Water Resources Data for Utah

Part 1. Surface Water Records

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RECLAMATION



**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, 1971
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 84111

1972

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The classification of gaging stations 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; (U) not recommended for future program.

WATER RESOURCES DATA FOR UTAH, 1971

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

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1971 water year for partial-record stations, gaging 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, Wilson McConkie, 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. Pehrson, Larry J. Neff, Alfred Lovato, 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 counterminous 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 are:

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

Division of Water Rights, H. C. Lambert, State Engineer

Division of Water Resources, D. F. Lawrence, Director

Bear River Commission, E. O. Larson, Chairman

Salt Lake County Commission, Oscar Hanson, Jr., 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 Interior, 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 at Linwood, Utah
Henrys Fork near Lonetree, Wyoming
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.

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.

SPECIAL NETWORKS AND PROGRAMS

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

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 station number and 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 nonrecording 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 Surface Water Techniques, Book 1, Chapter 9, and are also outlined in standard textbooks on the measurement of stream discharge.

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 being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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 1970 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. "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 concurrently 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 or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that 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 reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

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

Streamflows during the 1970-71 water year as measured at key gaging stations indicate mean flows greater than the 1931-60 medians throughout the state except in the southern part where the flow was below median. Figure 3 shows comparison of discharge during the 1971 water year with median discharge for a 30-year period at three of the key gaging stations.

The flow at Green River at Green River, Utah, was 126 percent of median. The flow at Colorado River near Cisco and at San Juan River near Bluff (adjusted for upstream storage) was 114 and 68 percent respectively, indicating an above median runoff in the Colorado River Basin above Lake

Powell, even though the San Juan River was below median. The flows at Logan River above State dam near Logan, South Fork Ogden River near Huntsville, and Weber River near Oakley were again above median--164, 159, and 127 percent, respectively. The flow of Spanish Fork at Thistle was 131 percent of median. In the Sevier Lake basin, runoff ranged from 131 percent of median at Sevier River near Gunnison to 76 percent at Sevier River at Hatch. The flow at Chalk Creek near Fillmore was 129 percent of median. In the southwestern part of the state, flows at Beaver Creek near Beaver, Coal Creek near Cedar City, and North Fork Virgin River near Springdale were 81, 96, and 88 percent respectively, of the 1931-60 medians. Average streamflow throughout the state was 117 percent compared to 109 percent a year ago.

Irrigation water stored in 24 major reservoirs of Utah (including Starvation Reservoir, but excluding Flaming Gorge Reservoir and Lake Powell) at the end of the 1971 water year was 2,926,890 acre-feet (73 percent of capacity). This was an increase of 12,370 acre-feet of water stored over that available at the close of the 1970 water year--the highest carryover for the past 18 years. Storage in all the principal reservoirs of the state exceeded the 1953-67 average contents.

The storage in Flaming Gorge Reservoir and Lake Powell at the close of the 1971 water year was 16,540,000 acre-feet, 58 percent of capacity and an increase of 2,710,000 acre-feet over the previous year.

The April-July 1971 runoff above Flaming Gorge was 2,100,000 acre-feet, or 180 percent of the long-term average. With this runoff, Flaming Gorge reached an alltime high on August 4, 1971 of 6,021.93 feet and an active storage content of 3,046,000 acre-feet (81 percent of capacity). The previous high was on July 29, 1967--6,019.19 feet with an active storage content of 2,948,000 acre-feet.

The elevation of Great Salt Lake reached a seasonal high of 4,198.20 feet above mean sea level on June 21-29. This is the highest level reached in 17 years and is the same level at which the lake stood in 1954, 1948, 1933, 1907, and 1902. During the 1971 water year, the rise in lake level was unusually large--the second largest annual rise ever measured. From October 15, 1970 to July 1, 1971, the lake rose 3.25 feet which was exceeded only by the total increase of 3.6 feet recorded in 1907.

Spring flooding in the northeastern portion of the state was due to a combination of excessive snow-pack accumulation, spring rains and warm air temperatures. Damages of about \$55,000 were attributed to the Bear, Cub, and Logan Rivers. Flooding along Blacksmith Fork caused \$15,000 damage.

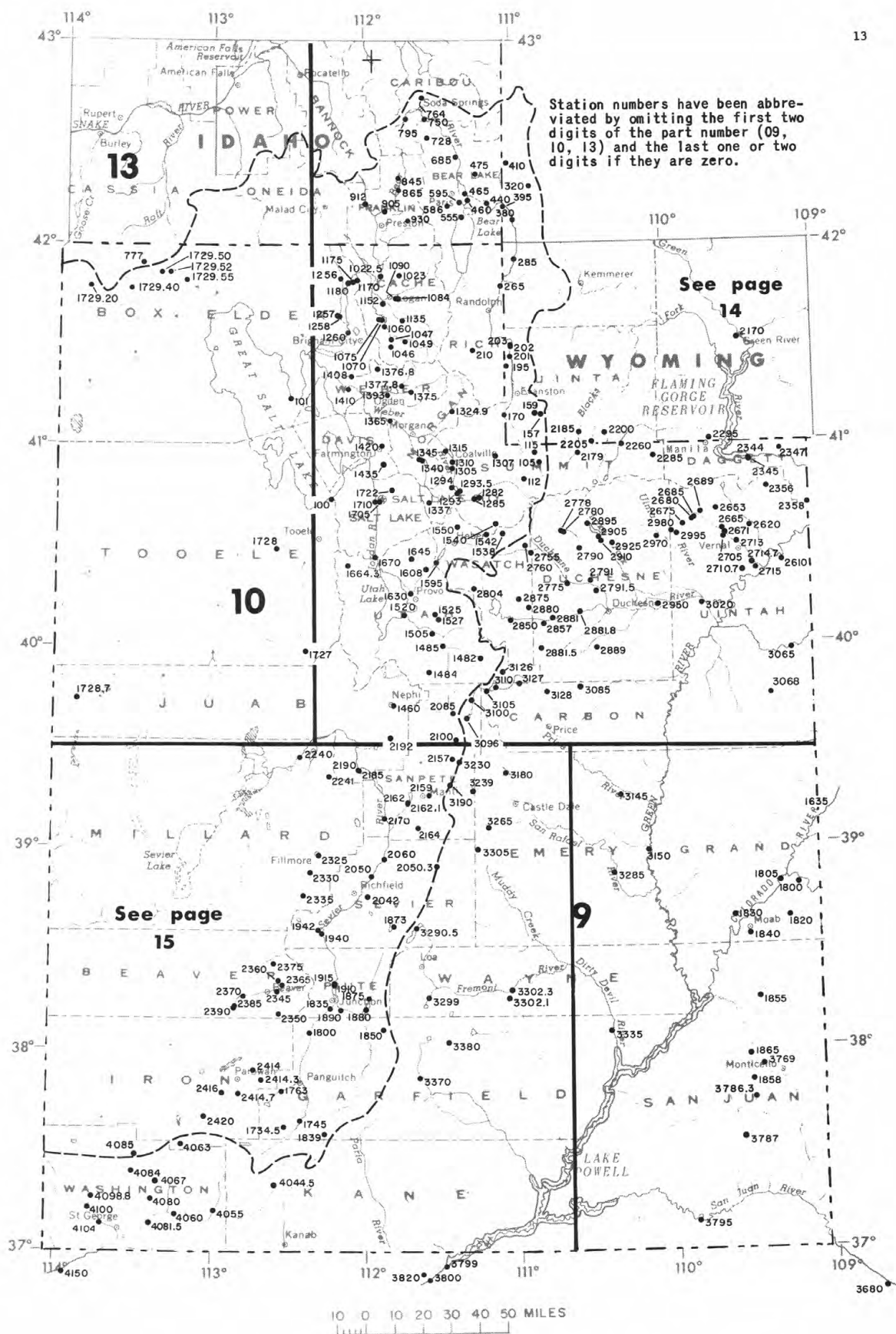
Thunderstorms produced localized floods during the mid-summer period. Notable floods occurred in the vicinity of Ferron, and in the Monroe-Annabella area in late July. Damages of about \$40,000 were reported in connection with these floods. Floods again occurred in the Monroe-Annabella area as well as at Nephi, Levan, and other localities during August. The most notable August flood event occurred at Minersville. This flood on August 21 caused about \$30,000 damage. No major storms were reported during the month of September.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

Records of discharge not published by the Geological Survey were collected in Utah by the following agencies at 31 sites during the 1971 water year: Records at 10 sites were collected by the Forest Service, at 5 sites by the Bureau of Land Management, at 5 sites by the Weber River Distribution System; and at 2 sites each by the following Ogden River Water Users: Ogden Bay Water Fowl Management Area, Salt Lake County Water Conservancy District, Utah Department of Natural Resources; and at one site each by the following: Bureau of Reclamation, Clear Lake Waterfowl Management Area, and Metropolitan Water District of Salt Lake City. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Washington, D. C. 20242, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

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- 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.



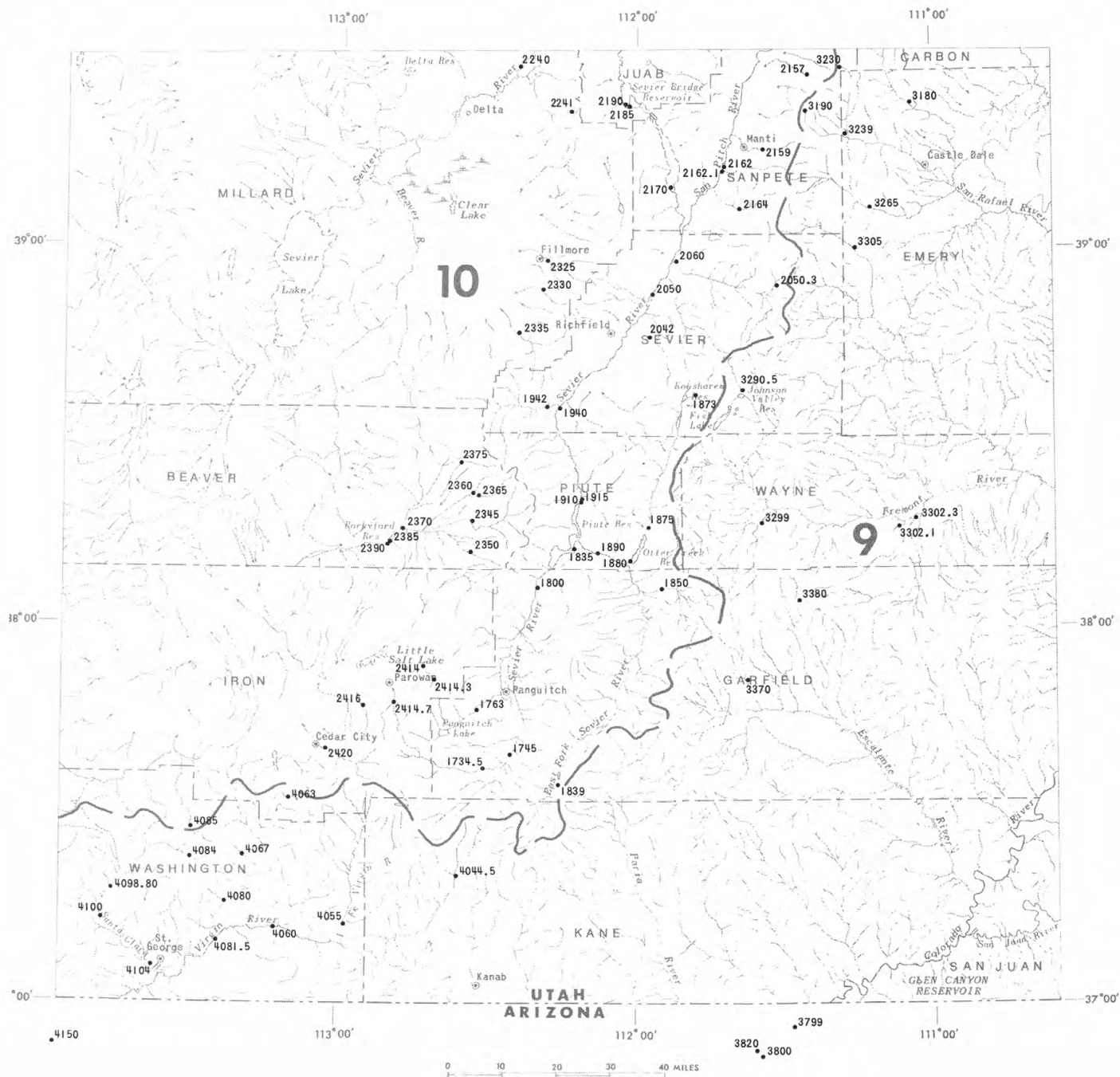


Figure 1.— Continued.

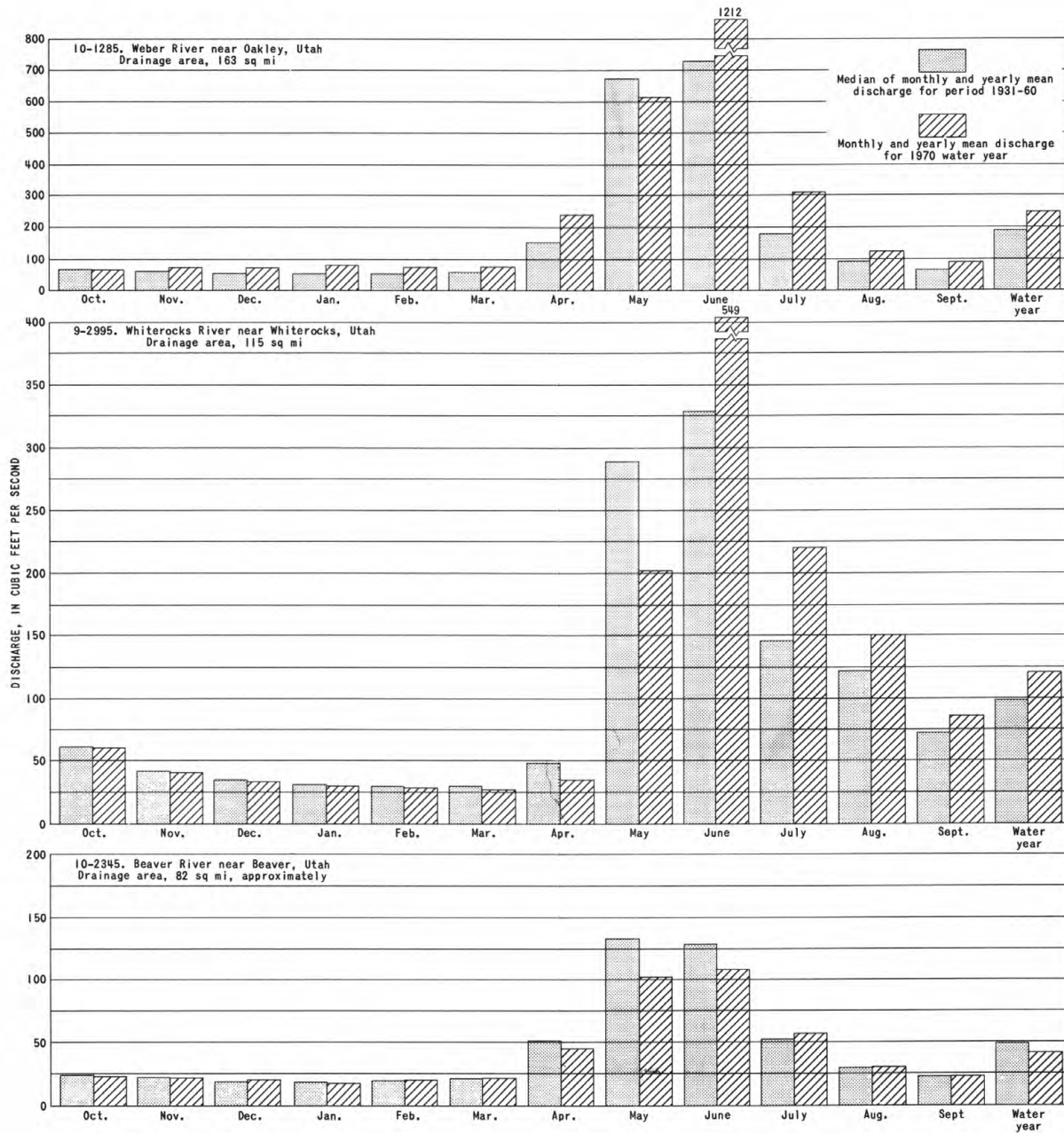


Figure 2.—Comparison of discharge at three long-term representative gaging stations during 1971 water year with median discharge for period 1931-60.

COLORADO RIVER MAIN STEM

17

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 miles downstream from Salt Creek, 6.3 miles southwest of Mack, Colo., and 7.2 miles upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,900 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--20 years, 5,778 cfs (4,186,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 22,200 cfs June 19 (gage height, 9.79 ft); maximum gage height, 11.35 ft Jan. 7 (ice jam); minimum daily discharge, 2,630 cfs Aug. 17.

Period of record: Maximum discharge, 56,800 cfs June 9, 1957 (gage height, 16.40 ft); minimum daily, 960 cfs 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,870	5,770	5,380	5,160	6,120	5,700	7,930	7,450	16,300	14,600	4,760	4,820
2	4,820	5,870	5,240	5,210	6,050	5,670	8,650	5,870	14,900	13,900	4,510	4,670
3	4,800	5,570	5,020	5,260	5,770	5,970	6,520	6,520	15,000	13,500	4,410	4,480
4	4,740	5,400	5,000	5,090	5,770	5,770	7,120	8,320	15,600	12,400	4,220	4,720
5	4,700	5,330	4,890	4,610	6,020	6,020	6,850	10,100	16,300	11,800	3,910	5,210
6	4,600	5,160	4,900	4,300	5,950	5,900	6,700	10,400	15,800	11,200	3,950	5,090
7	4,800	5,570	4,900	3,800	5,450	6,000	6,250	9,850	15,700	10,700	4,220	4,920
8	5,500	5,750	4,890	3,700	5,820	5,920	6,670	9,530	16,300	10,000	4,410	5,000
9	5,800	5,720	5,070	5,000	5,800	6,000	6,760	10,300	17,300	9,660	4,350	5,450
10	5,700	5,380	5,190	5,000	6,050	5,920	7,270	10,900	17,300	9,180	4,190	5,670
11	6,500	5,450	5,260	5,200	5,260	6,070	8,080	10,600	17,300	8,930	3,990	5,310
12	6,300	5,500	5,020	5,800	5,430	5,400	8,530	10,200	16,400	8,500	3,470	5,000
13	6,150	5,570	4,890	6,200	5,820	5,900	8,830	10,600	16,300	8,140	3,370	4,770
14	6,220	5,450	4,750	6,000	6,120	6,270	11,300	10,900	16,200	7,750	3,850	4,690
15	6,120	5,400	4,730	5,600	6,020	6,120	12,300	11,900	17,000	7,240	3,850	4,510
16	6,070	5,240	4,810	5,300	6,020	6,250	11,200	12,900	18,500	6,550	2,830	4,320
17	5,970	5,160	4,830	5,200	5,850	6,880	12,600	14,100	19,300	6,220	2,630	4,160
18	5,850	5,160	4,920	5,300	5,900	6,700	12,500	15,700	20,400	6,100	2,990	4,350
19	5,750	5,330	5,190	5,400	6,200	6,580	11,500	14,300	21,500	6,550	3,170	4,500
20	5,620	5,380	4,900	5,750	6,270	5,970	11,200	13,000	20,800	6,820	3,190	4,800
21	5,570	5,310	4,890	5,770	6,170	5,550	10,300	11,400	20,800	7,330	3,770	5,000
22	5,650	5,310	5,070	5,770	6,050	5,720	9,910	10,400	20,600	7,690	3,390	4,900
23	5,900	5,360	5,160	5,360	5,620	4,890	9,400	11,200	20,900	7,810	3,530	4,900
24	5,820	5,310	5,190	5,260	5,620	6,070	8,410	11,800	20,300	7,810	3,390	4,800
25	5,720	5,280	4,870	5,260	6,200	7,030	9,400	11,200	20,100	7,510	3,410	4,400
26	5,750	5,520	4,820	5,280	5,920	7,270	9,210	10,800	20,600	6,880	3,610	4,200
27	5,670	5,720	4,840	5,330	3,490	7,360	9,620	11,400	19,800	6,370	3,810	4,000
28	5,620	5,620	5,070	5,700	4,880	9,340	9,270	14,200	19,300	5,550	4,250	3,900
29	5,500	5,400	5,190	5,550	-----	9,530	8,200	17,300	17,500	5,480	4,820	3,900
30	5,570	5,400	5,020	5,380	-----	8,320	7,900	17,500	16,100	5,040	4,800	4,000
31	6,320	-----	5,160	5,870	-----	8,320	-----	18,000	-----	4,920	5,210	-----
TOTAL	173,670	163,390	155,060	163,410	161,640	200,410	270,380	358,640	540,200	262,130	120,260	140,440
MEAN	5,602	5,446	5,002	5,271	5,773	6,465	9,013	11,570	18,010	8,456	3,879	4,681
MAX	6,500	5,870	5,380	6,200	6,270	9,530	12,600	18,000	21,500	14,600	5,210	5,670
MIN	4,600	5,160	4,730	3,700	3,490	4,890	6,250	5,870	14,900	4,920	2,630	3,900
AC-FT	344,500	324,100	307,600	324,100	320,600	397,500	536,300	711,400	1,071M	519,900	238,500	278,600
CAL YR 1970	TOTAL 2,815,100		MEAN 7,713		MAX 32,300		MIN 3,200		AC-FT 5,584,000			
WTR YR 1971	TOTAL 2,709,630		MEAN 7,424		MAX 21,500		MIN 2,630		AC-FT 5,375,000			

DOLORES RIVER BASIN

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 downstream from Line Canyon, 9 miles upstream from mouth, 13.5 miles downstream from Colorado-Utah State line, and 14 miles southeast of Cisco.

DRAINAGE AREA.--4,580 sq mi, 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 (from river-profile map). Prior to Apr. 18, 1965, 200 ft downstream at different datum.

AVERAGE DISCHARGE.--21 years, 675 cfs (489,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,140 cfs Mar. 28 (gage height, 4.69 ft); minimum, 25 cfs Aug. 17.

Period of record: Maximum discharge, 17,400 cfs Apr. 21, 1958 (gage height, 9.84 ft) at different datum; minimum, 3.4 cfs Sept. 23, 1956.

REMARKS.--Records good. Many diversions for irrigation above station. Records of chemical analysis for the water year 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	304	263	298	289	268	2,210	1,070	1,710	1,030	137	431
2	271	363	258	321	297	217	1,820	1,000	1,490	831	121	311
3	302	354	228	304	333	266	1,450	1,050	1,380	750	109	227
4	272	331	257	309	397	266	1,360	1,190	1,450	681	91	219
5	238	324	235	300	345	265	1,260	1,370	1,440	642	83	203
6	242	319	240	270	319	279	1,140	1,440	1,490	604	83	193
7	309	311	213	250	300	234	1,140	1,340	1,580	567	79	171
8	270	295	191	250	251	241	1,250	1,210	1,840	540	75	155
9	296	270	195	250	232	224	1,330	1,430	1,980	495	73	166
10	290	241	238	250	258	220	1,340	2,930	1,930	469	70	181
11	299	229	237	250	249	237	1,350	2,970	1,890	444	63	164
12	311	244	216	250	262	233	1,480	2,370	1,780	408	55	144
13	290	236	173	250	264	235	1,520	2,200	1,630	390	55	133
14	292	235	168	250	268	268	1,630	2,060	1,570	374	50	118
15	297	227	193	250	271	262	1,640	2,120	1,510	333	50	107
16	277	195	236	250	279	245	1,630	2,270	1,700	317	51	99
17	278	186	235	250	285	203	1,500	2,280	1,830	301	43	94
18	262	208	254	250	290	184	1,400	2,390	1,900	271	47	87
19	244	214	275	250	307	168	1,460	2,350	2,110	241	45	88
20	235	217	242	250	281	158	1,420	2,010	2,180	241	90	96
21	234	201	276	250	288	194	1,260	1,660	2,090	289	160	95
22	236	195	268	250	235	213	1,170	1,490	2,020	332	378	90
23	254	196	283	250	189	290	1,090	1,480	2,080	364	310	92
24	277	185	248	250	202	576	1,030	1,540	2,030	276	332	90
25	260	173	261	250	239	1,000	1,020	1,400	1,930	257	435	82
26	251	163	301	361	238	1,250	1,300	1,260	1,860	232	460	76
27	253	198	273	277	274	1,590	1,380	1,250	1,740	213	452	71
28	281	260	289	273	194	3,240	1,150	1,400	1,560	188	1,130	68
29	262	269	300	259	-----	3,110	1,120	1,950	1,330	168	1,970	60
30	241	253	255	263	-----	2,670	1,040	2,270	1,150	156	1,110	65
31	251	-----	294	270	-----	2,500	-----	2,090	-----	148	500	-----
TOTAL	8,282	7,396	7,595	8,255	7,636	21,306	40,890	54,840	52,180	12,552	8,707	4,176
MEAN	267	247	245	266	273	687	1,363	1,769	1,739	405	281	139
MAX	311	363	301	361	397	3,240	2,210	2,970	2,180	1,030	1,970	431
MIN	207	163	168	250	189	158	1,020	1,000	1,150	148	43	60
AC-FT	16,430	14,670	15,060	16,370	15,150	42,260	81,110	108,800	103,500	24,900	17,270	8,280
CAL YR 1970	TOTAL 282,331		MEAN 774	MAX 5,600	MIN 130	AC-FT 560,000						
WTR YR 1971	TOTAL 233,815		MEAN 641	MAX 3,240	MIN 43	AC-FT 463,800						

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-28	1400	4.69	4,140	8-29	1100	4.53	3,830
5-10	1500	4.18	3,180				

COLORADO RIVER MAIN STEM

19

09180500 Colorado River near Cisco, Utah

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¼NW¼ sec.17, T.23 S., R.24 E., Grand County, on left bank 1 mile downstream from Dolores River, 11 miles south of Cisco, 36 miles downstream from Colorado-Utah State line, 97 miles upstream from Green River, and 235 miles upstream from San Juan River, at mile 1,022.3.

DRAINAGE AREA.--24,100 sq mi, 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 (from river-profile map). Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 miles downstream at datum 3,937.73 ft above mean sea level.

AVERAGE DISCHARGE.--60 years (1911-71), 7,712 cfs (5,587,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,500 cfs June 19 (gage height, 8.95 ft); minimum, 2,450 cfs Aug. 17 (gage height, 1.59 ft).

Period of record: Maximum discharge, 76,800 cfs June 19, 1917 (gage height, 19.7 ft); minimum recorded, 558 cfs July 21, 1934 (gage height, 0.44 ft).

Maximum discharge known, about 125,000 cfs 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,160	6,040	5,690	5,290	6,150	5,600	9,780	8,350	18,000	15,700	4,790	5,080
2	5,030	6,010	5,560	5,250	6,260	5,670	9,450	6,950	16,000	14,400	4,420	4,820
3	5,030	6,150	5,400	5,360	5,830	5,670	8,540	6,720	15,600	14,200	4,350	4,570
4	4,970	5,710	5,210	5,300	6,040	5,760	7,320	8,160	16,100	12,900	4,230	4,620
5	4,800	5,600	5,180	5,000	5,920	5,780	7,900	10,200	16,900	12,200	3,940	5,180
6	4,720	5,470	5,070	4,500	6,080	6,010	7,420	11,100	16,800	11,500	3,870	5,290
7	4,920	5,830	5,180	4,000	5,600	5,650	7,320	10,800	16,400	11,000	3,900	5,120
8	5,740	6,060	5,070	3,800	5,620	5,780	7,590	10,200	17,000	10,700	4,210	5,100
9	6,220	6,060	5,120	4,500	5,830	5,920	7,640	10,600	18,300	10,100	4,210	5,290
10	6,150	5,670	5,380	5,270	5,850	5,690	7,830	12,700	18,600	9,290	4,120	5,900
11	6,840	5,600	5,490	5,690	5,620	5,900	8,460	12,800	18,800	9,090	4,020	5,510
12	6,740	5,670	5,250	6,040	5,210	5,470	9,740	11,900	18,000	8,650	3,560	5,180
13	6,500	5,760	5,120	6,520	5,900	5,670	8,850	12,000	17,400	8,320	3,320	4,820
14	6,450	5,670	4,820	6,220	5,850	5,560	11,900	12,100	17,300	7,910	3,500	4,590
15	6,450	5,580	4,610	5,920	6,040	6,100	12,600	12,900	17,600	7,480	3,800	4,440
16	6,310	5,490	4,840	5,540	5,990	6,060	12,400	14,000	19,100	6,850	3,210	4,360
17	6,220	5,320	4,990	5,360	6,100	6,740	12,500	15,100	20,300	6,470	2,540	4,240
18	6,100	5,360	4,990	5,510	5,920	6,550	12,900	16,900	21,300	6,130	2,630	4,260
19	6,060	5,380	5,320	5,490	6,080	6,430	12,300	16,700	22,800	6,460	2,990	4,570
20	5,830	5,600	5,210	5,740	6,170	6,290	12,000	14,800	22,700	6,800	3,180	4,840
21	5,760	5,540	5,030	5,870	6,220	5,380	11,200	12,700	22,500	7,150	3,620	5,070
22	5,830	5,470	5,120	5,800	6,060	5,620	10,300	11,300	22,300	7,610	3,870	4,970
23	6,010	5,510	5,400	5,760	5,830	5,140	10,500	11,500	22,200	7,970	3,670	4,990
24	6,150	5,490	5,360	5,270	5,430	5,740	8,870	12,300	22,000	7,770	3,710	4,610
25	5,990	5,510	5,070	5,320	5,510	7,220	9,420	12,000	21,400	7,840	3,890	4,400
26	5,940	5,670	4,780	5,340	6,430	8,420	9,840	11,300	21,900	7,230	3,960	4,280
27	5,970	5,940	4,820	5,400	4,340	8,340	10,200	11,500	21,200	6,490	4,190	4,160
28	5,870	5,970	5,030	5,580	3,760	11,100	9,830	13,200	20,500	6,020	4,740	4,020
29	5,760	5,760	5,340	5,710	-----	12,100	9,180	18,100	19,000	5,460	6,390	4,020
30	5,690	5,650	5,120	5,360	-----	10,600	8,370	18,900	17,300	5,240	5,680	4,080
31	6,200	-----	5,230	5,670	-----	10,100	-----	19,400	-----	5,020	5,480	-----
TOTAL	181,410	170,540	159,800	167,380	161,640	208,060	292,150	387,180	575,300	269,950	123,990	142,380
MEAN	5,852	5,685	5,155	5,399	5,773	6,712	9,738	12,490	19,180	8,708	4,000	4,746
MAX	6,840	6,150	5,690	6,520	6,430	12,100	12,900	19,400	22,800	15,700	6,390	5,900
MIN	4,720	5,320	4,610	3,800	3,760	5,140	7,320	6,720	15,600	5,020	2,540	4,020
AC-FT	359,800	338,300	317,000	332,000	320,600	412,700	579,500	768,000	1,141M	535,400	245,900	282,400

CAL YR 1970 TOTAL 2,019,130 MEAN 5,532 MAX 35,000 MIN 3,090 AC-FT 4,005,000
WTR YR 1971 TOTAL 2,839,780 MEAN 7,780 MAX 22,800 MIN 2,540 AC-FT 5,633,000

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

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09182000 Castle Creek above diversions near Moab, Utah

LOCATION.--Lat 38°35'34", long 109°15'54", in NW¼ sec.33, T.25 S., R.24 E., Grand County, on left bank 1 mile east of LaSal National Forest boundary and 15 miles east of Moab.

DRAINAGE AREA.--7.58 sq mi.

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 (by barometer).

AVERAGE DISCHARGE.--19 years, 1.09 cfs (790 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3.5 cfs June 21 (gage height, 1.36 ft); maximum gage height, 1.67 ft Mar. 20 (backwater from ice); minimum discharge, 0.39 cfs Mar. 6, 16.
Period of record: Maximum discharge, 27 cfs Aug. 11, 1967 (gage height, 1.71 ft); no flow for many days in 1959-61, 1963-64.

REMARKS.--Records good. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.76	.54	.55	.55	.50	.46	.93	1.6	3.2	1.4	1.1
2	.68	.76	.55	.55	.55	.50	.43	.95	1.6	3.1	1.3	1.1
3	.65	.70	.51	.55	.56	.45	.43	1.0	1.6	2.9	1.3	1.2
4	.65	.67	.51	.54	.54	.45	.43	1.1	1.6	2.8	1.3	1.1
5	.65	.72	.50	.50	.55	.45	.43	1.1	1.6	2.8	1.3	1.1
6	.65	.76	.47	.50	.53	.45	.43	1.1	1.7	2.7	1.3	1.1
7	.61	.77	.46	.50	.52	.45	.44	1.1	1.7	2.6	1.3	1.1
8	.62	.76	.49	.51	.52	.47	.45	1.1	1.9	2.5	1.2	1.1
9	.65	.70	.50	.52	.52	.46	.46	1.1	2.0	2.4	1.2	1.0
10	.69	.74	.48	.54	.53	.44	.47	1.1	2.1	2.3	1.1	.95
11	.65	.74	.47	.51	.51	.43	.48	1.1	2.2	2.2	1.1	.97
12	.61	.70	.47	.48	.51	.44	.50	1.1	2.3	2.1	1.1	.95
13	.60	.69	.88	.51	.51	.44	.53	1.1	2.4	2.0	1.0	.95
14	.60	.61	.46	.51	.51	.43	.56	1.2	2.5	2.0	1.0	.87
15	.60	.57	.47	.52	.51	.43	.67	1.2	2.5	2.0	1.0	.82
16	.60	.55	.47	.52	.51	.43	.75	1.3	2.5	1.9	1.0	.79
17	.60	.55	.47	.55	.53	.43	.82	1.5	2.5	1.9	1.0	.76
18	.55	.58	.47	.56	.55	.43	.93	1.5	2.8	1.9	1.0	.76
19	.55	.60	.47	.55	.55	.43	.96	1.5	3.1	1.8	1.0	.73
20	.75	.60	.51	.55	.55	.43	.96	1.5	3.3	1.8	1.1	.70
21	.82	.60	.51	.55	.54	.44	.95	1.5	3.3	1.8	1.1	.70
22	.87	.59	.51	.55	.54	.45	.90	1.5	3.4	1.7	1.0	.70
23	.88	.55	.51	.55	.54	.47	.91	1.6	3.5	1.7	.99	.70
24	.88	.55	.51	.55	.54	.48	.92	1.6	3.5	1.7	1.0	.70
25	.88	.59	.51	.56	.55	.47	.88	1.5	3.5	1.6	1.1	.68
26	.85	.64	.55	.59	.52	.48	.88	1.5	3.5	1.6	1.1	.65
27	.81	.60	.55	.57	.51	.49	.83	1.5	3.4	1.5	1.2	.65
28	.75	.60	.55	.55	.50	.49	.82	1.5	3.4	1.5	1.1	.65
29	.77	.60	.54	.56	-----	.51	.85	1.6	3.3	1.5	1.1	.66
30	.82	.60	.55	.55	-----	.51	.88	1.6	3.2	1.4	1.1	.71
31	.81	-----	.53	.55	-----	.51	-----	1.6	-----	1.4	1.1	-----
TOTAL	21.80	19.45	15.97	16.65	14.85	14.24	20.41	40.58	77.5	64.3	34.89	25.95
MEAN	.70	.65	.52	.54	.53	.46	.68	1.31	2.58	2.07	1.13	.87
MAX	.88	.77	.88	.59	.56	.51	.96	1.6	3.5	3.2	1.4	1.2
MIN	.55	.55	.46	.48	.50	.43	.43	.93	1.6	1.4	.99	.65
AC-FT	43	39	32	33	29	28	40	80	154	128	69	51

CAL YR 1970 TOTAL 590.44 MEAN 1.62 MAX 9.1 MIN .39 AC-FT 1,170
WTR YR 1971 TOTAL 366.59 MEAN 1.00 MAX 3.5 MIN .43 AC-FT 727

PEAK DISCHARGE (BASE, 5.0 CFS).--No peaks above base.

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

21

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 upstream from bridge on U.S. Highway 160, 0.8 mile upstream from mouth and three miles northwest of Moab.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--October 1949 to September 1955, April to September 1957, July 1966 to current year. Records for station at site 5 miles 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 (from river-profile map).

AVERAGE DISCHARGE.--11 years (1949-55, 1967-71), 1.96 cfs (1,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 643 cfs Aug. 20 (gage height, 2.27 ft); no flow Nov. 15.

Period of record: Maximum discharge, 12,300 cfs Aug. 5, 1957 (gage height, 9.38 ft), from rating curve extended above 500 cfs on basis of slope-area measurement of peak flow; no flow at times.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.12	.12	.26	.58	.43	.09	.09	.05	.05	.07	.09
2	.07	.12	.12	.22	.67	.67	.09	.09	.05	.05	.05	.09
3	.07	.12	.09	.20	.67	.77	.09	.09	.05	.03	.03	.09
4	.07	.12	.09	.15	.43	.77	.09	.09	.05	.05	.05	.09
5	.07	.12	.09	.15	.58	.50	.09	.09	.05	.05	.05	.09
6	.05	.12	.12	.15	.50	.22	.09	.07	.05	.05	.05	.09
7	.58	.58	.12	.15	.43	.37	.09	.07	.05	.05	.05	.12
8	.22	.77	.12	.15	.43	.50	.07	.07	.07	.05	.05	.05
9	.09	.15	.43	.15	.58	.50	.07	.07	.05	.05	.03	.05
10	.18	.12	.67	.15	.58	.50	.07	.07	.05	.03	.03	.03
11	.09	.07	.18	.30	.58	.43	.07	.07	.05	.03	.05	.03
12	.09	.05	.15	.40	.58	.43	.07	.07	.09	.03	.05	.03
13	.09	.07	.22	.50	.58	.31	.07	.07	.09	.05	.05	.07
14	.09	.02	.22	.50	.58	.26	.07	.07	.07	.05	.05	.07
15	.09	.01	.15	.50	.67	.22	.07	.07	.07	.05	.03	.09
16	.09	.07	.26	.50	.43	.15	.07	.07	.07	.05	.03	.09
17	.09	.09	.31	.50	.50	.22	.07	.07	.05	.05	.03	.09
18	.09	.09	.15	.50	.50	.12	.09	.07	.07	.05	.05	.09
19	.09	.07	.18	.50	.43	.12	1.4	.07	.05	.15	.05	.09
20	.09	.07	.15	.50	2.0	.18	8.0	.07	.05	.31	30	.12
21	.12	.07	.31	.50	.77	.26	.31	.05	.05	4.2	3.0	.12
22	.22	.07	.31	.67	.43	.22	.15	.05	.05	.43	.10	.09
23	.15	.07	.26	.89	.50	.18	.26	.05	.05	.10	.09	.07
24	.18	.09	.31	.89	.50	.15	2.3	.05	.05	.09	.09	.07
25	.15	.07	.31	1.2	.50	.12	1.0	.05	.05	.07	.12	.05
26	.15	12	.18	.89	.37	.15	.50	.05	.05	.07	.31	.05
27	.15	.26	.18	.89	.31	.09	.37	.07	.03	.07	.07	.05
28	.15	.18	.31	.77	.31	.09	.22	.07	.05	.07	.07	.07
29	.12	.03	.37	.58	-----	.12	.18	.07	.05	.05	.07	.09
30	.12	.12	.31	.58	-----	.09	.09	.07	.05	.05	.15	.12
31	.12	-----	.43	.58	-----	.09	-----	.07	-----	.07	.10	-----
TOTAL	3.98	15.91	7.22	14.87	15.99	9.23	16.20	2.15	1.66	6.55	35.02	2.34
MEAN	.13	.53	.23	.48	.57	.30	.54	.069	.055	.21	1.13	.078
MAX	.58	.12	.67	1.2	2.0	.77	8.0	.09	.09	4.2	30	.12
MIN	.05	.01	.09	.15	.31	.09	.07	.05	.03	.03	.03	.03
AC-FT	7.9	32	14	29	32	18	32	4.3	3.3	13	69	4.6

CAL YR 1970 TOTAL 229.42 MEAN .63 MAX 53 MIN 0 AC-FT 455
WTR YR 1971 TOTAL 131.12 MEAN .36 MAX 30 MIN .01 AC-FT 260

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

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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 downstream from North Fork, 1.5 miles southeast of Moab, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--74.9 sq mi.

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 (discontinued).

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft (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 upstream at various datums.

AVERAGE DISCHARGE.--22 years, 14.0 cfs (10,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 322 cfs Aug. 30 (gage height, 3.17 ft); minimum, 2.2 cfs Jan. 5.

Period of record: Maximum recorded discharge, about 5,110 cfs Aug. 21, 1953 (gage height, 10.74 ft, from floodmark, site and datum then in use) from rating curve extended above 700 cfs on basis of slope-area measurements at gage heights 8.24, 8.62, 9.81, and 11.1 ft; maximum gage height, 11.6 ft Aug. 26, 1961, site and datum then in use; minimum discharge recorded, 0.2 cfs Feb. 15, 1964.

REMARKS.--Records good. Small diversions, near headwaters, for irrigation above station.

REVISIONS.--WSP 1730: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	11	8.0	9.4	9.0	10	16	16	15	9.8	13
2	12	12	11	8.0	10	9.0	11	17	15	14	9.9	11
3	12	12	11	8.0	9.8	9.0	10	19	16	13	9.6	16
4	12	12	11	8.2	7.8	9.0	9.9	20	16	13	9.5	14
5	12	13	11	8.0	9.8	9.0	9.9	19	16	12	9.4	11
6	12	12	11	8.0	8.2	9.5	10	17	17	12	10	11
7	18	14	11	8.0	9.6	10	10	16	17	12	9.7	10
8	13	13	12	8.0	10	10	11	17	19	12	9.3	11
9	14	12	12	8.0	10	9.9	11	17	19	11	8.7	10
10	16	13	12	8.0	9.7	10	11	15	19	10	8.5	9.7
11	14	12	9.5	8.0	9.8	10	12	15	20	10	8.7	9.2
12	14	12	10	8.0	9.5	9.9	13	15	21	9.7	9.2	8.9
13	14	12	7.7	8.0	10	10	13	15	20	9.6	8.9	8.3
14	13	10	9.1	8.0	10	10	14	16	20	9.5	8.8	8.3
15	13	10	11	8.7	10	9.6	14	17	21	9.9	8.3	7.9
16	13	12	10	8.4	9.9	9.4	14	20	22	10	8.9	7.9
17	13	12	12	11	10	9.5	14	23	25	12	8.7	7.9
18	13	12	11	11	10	8.7	14	21	28	12	8.7	8.3
19	13	11	7.5	11	10	8.7	16	20	28	12	9.0	8.9
20	13	11	12	11	11	9.8	16	19	25	13	14	8.9
21	13	12	11	11	8.6	10	13	17	24	12	34	8.3
22	13	12	11	9.6	8.2	9.9	12	18	23	14	14	8.3
23	13	11	9.8	9.8	9.2	9.5	12	18	23	13	13	8.3
24	12	11	7.7	8.3	9.8	9.6	11	17	22	13	14	8.9
25	12	11	8.0	9.8	10	10	10	16	21	12	13	7.9
26	13	26	8.0	10	9.4	9.8	11	16	20	12	14	7.5
27	13	13	8.0	9.8	9.0	10	9.9	18	19	11	15	6.6
28	11	11	8.0	9.7	9.0	11	10	21	18	11	14	6.6
29	13	11	8.0	9.5	-----	11	11	20	17	11	14	6.2
30	13	14	8.0	9.8	-----	11	13	19	16	10	27	7.5
31	13	-----	8.0	9.1	-----	11	-----	17	-----	9.8	15	-----
TOTAL	405	372	308.3	279.7	267.7	302.8	356.7	551	603	360.5	374.6	277.3
MEAN	13.1	12.4	9.95	9.02	9.56	9.77	11.9	17.8	20.1	11.6	12.1	9.24
MAX	18	26	12	11	11	11	16	23	28	15	34	16
MIN	11	10	7.5	8.0	7.8	8.7	9.9	15	15	9.5	8.3	6.2
AC-FT	803	738	612	555	531	601	708	1,090	1,200	715	743	550

CAL YR 1970 TOTAL 6,395.7 MEAN 17.5 MAX 89 MIN 7.0 AC-FT 12,690
WTR YR 1971 TOTAL 4,458.6 MEAN 12.2 MAX 34 MIN 6.2 AC-FT 8,840

---AV DISCHARGE (BASE, 250 CFS).--Aug. 21 (0100) 259 cfs (3.02 ft); Aug. 30 (1900) 322 cfs (3.17 ft).

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

23

09185500 Hatch Wash near La Sal, Utah

LOCATION.--Lat 38°14'36", long 109°26'22", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.29 S., R.23 E., San Juan County, on right bank 10 miles southwest of La Sal.

DRAINAGE AREA.--378 sq mi.

PERIOD OF RECORD.--July 1950 to current year (discontinued).

GAGE.--Water-stage recorder and concrete control. Prior to Apr. 28, 1967 at site 60 ft upstream at higher datum. Altitude of gage is 5,500 ft (from topographic map).

AVERAGE DISCHARGE.--21 years, 1.60 cfs (1,160 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,850 cfs Aug. 25 (gage height, 3.60 ft); minimum, 0.01 cfs several days.
Period of record: Maximum discharge, 4,650 cfs Aug. 20, 1970 (gage height, 5.96 ft, from high-water mark), from rating curve extended above 160 cfs on basis of slope-area measurement of peak flow; minimum, 0.01 cfs many days each year.

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

REVISIONS.--WSP 1713: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.05	.07	.07	.07	.07	.03	.03	.07	.03	.01	1.0
2	.03	.05	.07	.07	.07	.07	.05	.03	.05	.01	.01	.03
3	.03	.05	.07	.03	.07	.07	.05	.03	.05	.01	.01	.03
4	.03	.05	.07	.03	.07	.09	.05	.03	.05	.01	.01	.03
5	.03	.05	.07	.03	.07	.11	.05	.03	.05	.01	.03	.03
6	.03	.05	.07	.03	.07	.09	.05	.05	.05	.01	.03	.01
7	.23	.05	.07	.03	.05	.07	.03	.05	.05	.01	.03	.01
8	.17	.05	.07	.03	.05	.05	.05	.05	.05	.01	.03	.03
9	.05	.05	.07	.03	.05	.05	.05	.05	.05	.03	.01	.01
10	.05	.05	.09	.03	.05	.05	.05	.03	.05	.01	.01	.01
11	.05	.05	.07	.05	.05	.07	.05	.03	.07	.01	.03	.01
12	.03	.05	.07	.05	.05	.07	.03	.03	.07	.01	.05	.01
13	.03	.05	.07	.07	.05	.07	.03	.05	.07	.01	.03	.01
14	.03	.05	.07	.05	.05	.07	.05	.07	.07	.01	.03	.01
15	.03	.05	.07	.05	.05	.07	.03	.05	.05	.03	.03	.01
16	.03	.05	.07	.05	.07	.07	.05	.03	.07	.03	.03	.01
17	.03	.07	.07	.05	.07	.05	.03	.03	.05	.03	.03	.01
18	.03	.07	.07	.05	.07	.05	.05	.05	.05	.01	.05	.01
19	.05	.07	.07	.05	.07	.07	.07	.05	.03	.01	.07	.01
20	.03	.05	.07	.05	.09	.07	.09	.05	.03	.03	1.6	.03
21	.03	.05	.07	.05	.05	.07	.07	.03	.05	.05	18	.03
22	.05	.05	.07	.05	.07	.07	.07	.03	.03	.05	9.1	.03
23	.05	.05	.07	.05	.07	.07	.07	.05	.03	.03	.50	.03
24	.05	.05	.07	.05	.05	.07	.05	.05	.01	.03	15	.03
25	.05	.05	.07	.05	.05	.07	.03	.05	.01	.03	228	.01
26	.07	.11	.07	.05	.07	.07	.03	.05	.01	.03	16	.01
27	.05	.07	.07	.05	.07	.07	.05	.03	.01	.01	.79	.01
28	.05	.07	.07	.05	.07	.05	.03	.03	.01	.01	.09	.01
29	.05	.07	.07	.05	-----	.05	.03	.03	.01	.01	112	.03
30	.05	.07	.07	.05	-----	.05	.03	.07	.01	.01	6.7	.07
31	.05	-----	.07	.05	-----	.03	-----	.05	-----	.01	17	-----
TOTAL	1.57	1.70	2.19	1.45	1.74	2.05	1.40	1.29	1.26	.59	425.31	1.57
MEAN	.051	.057	.071	.047	.062	.066	.047	.042	.042	.019	13.7	.052
MAX	.23	.11	.09	.07	.09	.11	.09	.07	.07	.05	228	1.0
MIN	.03	.05	.07	.03	.05	.03	.03	.03	.01	.01	.01	.01
AC-FT	3.1	3.4	4.3	2.9	3.5	4.1	2.8	2.6	2.5	1.2	844	3.1

CAL YR 1970 TOTAL 310.58 MEAN .85 MAX 229 MIN .01 AC-FT 616
WTR YR 1971 TOTAL 442.12 MEAN 1.21 MAX 228 MIN .01 AC-FT 877

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-21	0030	1.58	234	8-29	0500	2.30	680
8-25	0500	3.60	1,850				

NOTE.--No gage-height record Jan. 1 to Feb. 4.

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 downstream from headgate, 500 ft upstream from tunnel entrance, and 9 miles 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 (from topographic map).

AVERAGE DISCHARGE.--13 years (1957-59, 1960-71), 1.54 cfs (1,120 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6.2 cfs June 18; minimum, 0.25 cfs many days (estimated).
Period of record: Maximum daily discharge, 18 cfs June 8, 1968; no flow at times in some years.

REMARKS.--Records fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.59	.79	.30	.25	.25	1.5	2.0	3.7	1.7	.77	.93
2	.68	.59	.45	.30	.25	.25	1.5	2.0	3.4	1.6	.76	.87
3	.50	1.2	.46	.25	.25	.25	1.5	2.0	3.2	1.6	.74	.86
4	.50	.71	.45	.25	.25	.25	1.5	2.0	3.1	1.5	.73	.82
5	.54	.58	.45	.25	.25	.25	1.5	2.0	2.9	1.4	.73	.83
6	.54	.54	.42	.25	.25	.30	1.5	2.5	2.9	1.6	.80	.75
7	.55	.57	.41	.25	.25	.30	1.5	2.6	3.4	1.5	.79	.73
8	.53	.54	.41	.25	.25	.30	1.5	2.6	3.4	1.3	.76	.72
9	.52	.57	.52	.25	.25	.30	1.5	2.6	4.0	1.3	.73	.68
10	.59	.54	.43	.25	.25	.30	1.5	2.6	4.5	1.2	.71	.64
11	.57	.55	.41	.25	.25	.35	2.0	2.7	4.5	1.2	.69	.59
12	.54	.54	.36	.25	.25	.35	2.0	2.7	4.8	1.1	.67	.59
13	.54	.55	.36	.25	.25	.35	2.0	2.7	4.5	1.1	.66	.59
14	.54	.56	.41	.25	.25	.35	2.0	2.7	4.0	1.1	.64	.55
15	.59	.62	.37	.25	.25	.35	2.0	2.8	4.0	1.1	.64	.54
16	.59	.47	.30	.25	.25	.40	2.0	2.8	4.8	1.0	.71	.54
17	.59	.48	.30	.25	.25	.40	2.0	2.8	5.6	.99	.71	.54
18	.59	.45	.30	.25	.25	.40	2.0	2.9	5.9	1.1	.70	.55
19	.64	.45	.30	.25	.25	.40	2.0	2.9	6.0	1.2	.87	.54
20	.61	.47	.30	.25	.25	.40	2.0	2.9	5.6	1.1	.85	.54
21	.54	.36	.30	.25	.25	.50	2.0	3.0	5.1	1.2	.90	.50
22	.61	.41	.30	.25	.25	.60	2.0	3.0	4.5	1.1	.98	.50
23	.54	.41	.30	.25	.25	.70	2.0	3.1	4.1	.99	.88	.53
24	.59	.41	.30	.25	.25	.80	2.0	3.1	3.9	.95	.87	.50
25	.59	.41	.30	.25	.25	1.0	2.0	3.2	3.5	.90	.87	.50
26	.92	.61	.30	.25	.25	1.5	2.0	3.5	3.0	.90	1.4	.50
27	.71	.45	.30	.25	.25	1.5	2.0	3.7	2.6	.89	1.1	.48
28	2.1	.36	.30	.25	.25	1.5	2.0	4.5	2.3	.86	1.2	.47
29	.59	.36	.30	.25	-----	1.5	2.0	4.8	2.1	.85	1.1	.52
30	.59	.90	.30	.25	-----	1.5	2.0	4.5	1.9	.81	1.0	1.2
31	.59	-----	.30	.25	-----	1.5	-----	4.0	-----	.80	.99	-----
TOTAL	19.66	16.25	11.50	7.85	7.00	19.10	55.0	91.2	117.2	35.94	25.95	19.10
MEAN	.63	.54	.37	.25	.25	.62	1.83	2.94	3.91	1.16	.84	.64
MAX	2.1	1.2	.79	.30	.25	1.5	2.0	4.8	6.0	1.7	1.4	1.2
MIN	.50	.36	.30	.25	.25	.25	1.5	2.0	1.9	.80	.64	.47
AC-FT	39	32	23	16	14	38	109	181	232	71	51	38

CAL YR 1970 TOTAL 501.73 MEAN 1.37 MAX 9.2 MIN .22 AC-FT 995
WTR YR 1971 TOTAL 425.75 MEAN 1.17 MAX 6.0 MIN .25 AC-FT 844

NOTE.--No gage-height record Dec. 16 to May 24.

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

25

09186500 Indian Creek above Cottonwood Creek, near Monticello, Utah

LOCATION.--Lat 37°58'30", long 109°31'05", in SW¼SW¼SW¼, sec.21, T.32 S., R.22 E., San Juan County, on right bank 0.8 mile upstream from intermittent right bank tributary, 8 miles upstream from Cottonwood Creek and 12 miles northwest of Monticello.

DRAINAGE AREA.--31.2 sq mi.

PERIOD OF RECORD.--October 1949 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,290 ft (by barometer).

AVERAGE DISCHARGE.--22 years, 4.40 cfs (3,190 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,330 cfs Aug. 28 (gage height, 12.45 ft), from slope-area measurement; minimum daily, 0.07 cfs Aug. 9, 10, 12-14.

Period of record: Maximum discharge, 2,330 cfs Aug. 28, 1971; no flow all or part of many days in some years.

REMARKS.--Records good except for period of no gage-height record which is fair. Indian Creek tunnel diverts water above station to San Juan River basin for irrigation and municipal supply (see preceding page).

REVISIONS (WATER YEARS).--WSP 1213: 1950(M). WSP 1633: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	.87	1.0	1.0	1.0	1.9	2.6	4.6	2.7	.10	1.0
2	1.1	1.2	.71	1.0	.96	1.0	2.2	2.7	4.4	2.5	.10	.80
3	.84	.97	.70	1.0	.89	1.0	2.5	3.1	4.3	2.4	.10	.60
4	.98	1.1	.70	1.0	.50	1.0	2.2	3.6	4.4	1.9	.15	.50
5	1.4	1.5	.70	1.0	.50	1.0	2.1	3.8	4.3	1.7	.15	.40
6	1.2	1.3	.70	1.0	.50	1.0	2.3	3.7	4.3	1.5	.15	.35
7	1.4	1.4	.70	1.0	.50	1.0	2.5	3.7	4.3	2.0	.10	.30
8	1.6	1.3	.70	1.0	.50	1.0	2.3	4.1	4.4	1.7	.10	.27
9	1.5	.92	.70	1.0	.50	1.0	2.2	3.9	4.6	1.2	.07	.25
10	1.6	1.4	.70	1.0	.50	1.0	2.4	3.9	4.6	.86	.07	.23
11	1.5	1.1	.70	1.0	1.0	1.0	2.5	4.2	4.5	.69	.10	.21
12	1.5	1.4	.70	1.0	1.0	1.0	2.8	4.3	4.8	.57	.07	.20
13	1.4	1.4	.70	1.0	1.0	1.0	3.1	4.2	4.8	.48	.07	.18
14	1.4	.89	.70	.96	1.0	1.0	3.2	4.5	4.4	.41	.07	.16
15	1.4	.93	.70	.91	1.0	.90	3.3	4.7	4.5	.36	.10	.15
16	1.7	.90	.70	.88	1.0	1.0	3.6	5.1	4.7	.42	.10	.15
17	1.6	.90	.70	.75	1.0	1.2	3.8	5.9	4.8	.61	.10	.15
18	1.5	.90	.70	.72	1.0	1.1	3.7	5.9	4.8	.96	.15	.15
19	1.5	.90	.70	.62	1.0	1.0	3.5	5.5	4.8	.96	.15	.15
20	1.4	.90	.70	.64	1.0	1.2	3.4	5.2	4.5	1.2	.20	.15
21	1.3	.90	.70	.66	1.0	1.3	3.2	5.1	4.2	1.8	.31	.15
22	1.5	.90	.70	.56	1.0	1.4	3.2	5.2	3.9	1.3	1.3	.15
23	1.6	.90	.70	.67	1.0	1.7	3.0	5.4	3.7	1.1	1.6	.15
24	1.5	1.0	.70	1.0	1.0	2.0	2.9	4.9	3.5	.72	1.2	.15
25	1.5	1.0	.70	1.0	1.0	1.8	2.7	4.5	3.2	.47	.96	.15
26	1.6	1.2	.70	1.0	1.0	1.8	2.8	4.5	2.9	.37	4.2	.15
27	1.4	1.1	.70	1.0	1.0	2.7	2.7	4.8	2.7	.29	1.9	.15
28	1.3	1.0	.70	1.0	1.0	2.6	2.8	5.2	2.6	.27	152	.15
29	1.6	1.1	.70	1.0	-----	2.2	2.7	5.7	2.5	.21	5.0	.15
30	1.5	1.2	.70	1.0	-----	2.4	2.6	5.5	2.8	.15	3.0	1.0
31	1.5	-----	.70	1.2	-----	2.6	-----	5.0	-----	.15	2.0	-----
TOTAL	44.02	33.01	21.88	28.57	24.35	42.90	84.1	140.4	122.8	31.95	175.67	8.70
MEAN	1.42	1.10	.71	.92	.87	1.38	2.80	4.53	4.09	1.03	5.67	.29
MAX	1.7	1.5	.87	1.2	1.0	2.7	3.8	5.9	4.8	2.7	152	1.0
MIN	.84	.89	.70	.56	.50	.90	1.9	2.6	2.5	.15	.07	.15
AC-FT	87	65	43	57	48	85	167	278	244	63	348	17

CAL YR 1970 TOTAL 1,355.92 MEAN 3.71 MAX 81 MIN .39 AC-FT 2,690
WTR YR 1971 TOTAL 758.35 MEAN 2.08 MAX 152 MIN .07 AC-FT 1,500

PEAK DISCHARGE (BASE, 40 CFS).--Aug. 28 (2100) 2,330 cfs (12.45 ft).

NOTE.--No gage-height record Aug. 29 to Sept. 30.

GREEN RIVER BASIN

09217000 Green River near Green River, Wyoming

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 mile downstream from Bitter Creek, 1 mile southeast of town of Green River, and 4 miles upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 10,000 sq mi, of which 300 sq mi is probably noncontributing.

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

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

AVERAGE DISCHARGE.--20 years, 1,655 cfs (1,199,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 11,300 cfs July 1 (gage height, 6.54 ft); minimum daily, 348 cfs Oct. 2, 3.
 Period of record: Maximum discharge, 16,800 cfs Sept. 7, 1965 (gage height, 8.53 ft), caused by emergency release from Fontenelle Reservoir; minimum daily, 170 cfs Nov. 16, 1955.
 Maximum discharge observed, 22,200 cfs June 19, 1918, at site 1.5 miles 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 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	626	780	625	860	860	1,850	2,160	6,250	11,200	2,840	1,420
2	348	626	780	630	870	860	1,890	2,160	6,570	10,600	2,860	1,340
3	348	625	760	630	860	860	1,700	2,160	7,140	9,360	2,860	1,290
4	556	631	745	620	850	860	1,650	2,160	7,610	9,000	2,730	1,300
5	566	632	735	595	830	880	1,610	2,310	7,630	8,940	2,560	1,300
6	729	638	725	625	830	850	1,590	2,620	7,610	8,860	2,430	1,320
7	1,250	661	730	650	830	820	1,570	2,930	7,550	7,840	2,290	1,370
8	1,440	656	725	660	830	870	1,570	3,130	7,550	6,960	2,310	1,340
9	1,450	651	740	680	830	880	1,610	3,150	7,530	6,150	2,370	1,320
10	1,510	675	740	690	830	880	1,620	3,190	7,550	5,120	2,430	1,300
11	1,490	747	740	660	880	880	1,620	3,440	7,530	4,060	2,730	1,290
12	1,510	764	740	650	910	880	1,650	3,790	7,530	3,170	2,160	1,270
13	1,550	809	745	650	920	880	1,620	3,880	7,580	2,320	1,890	1,260
14	1,450	991	750	660	910	880	1,620	4,230	7,630	1,750	1,990	1,250
15	1,450	1,390	760	655	850	880	1,620	4,850	7,680	1,620	2,010	1,250
16	1,450	1,580	745	650	825	890	1,590	5,020	7,760	1,590	1,990	1,260
17	1,450	1,440	710	645	820	890	1,610	5,020	7,790	1,560	1,940	1,280
18	1,450	1,180	705	665	815	940	1,610	5,190	7,870	1,590	1,890	1,290
19	1,450	850	715	700	805	1,010	1,640	5,840	7,940	1,820	1,850	1,290
20	1,360	780	745	740	760	1,080	1,800	6,100	8,020	1,990	1,810	1,290
21	1,150	750	725	740	780	1,100	1,990	6,120	8,100	2,430	1,780	1,280
22	951	760	680	705	810	1,070	2,080	6,180	8,070	3,170	1,780	1,280
23	774	760	650	680	850	1,160	2,070	6,200	8,160	3,840	1,780	1,260
24	675	760	630	675	860	1,820	2,100	6,120	8,130	4,080	1,770	1,250
25	689	760	635	680	860	2,130	2,070	6,100	8,460	4,590	1,750	1,250
26	689	755	645	740	860	2,400	2,070	6,100	9,470	4,590	1,530	1,260
27	675	750	645	800	860	2,080	2,160	6,050	9,740	4,520	1,390	1,280
28	654	740	640	820	860	2,430	2,190	6,050	9,770	4,020	1,420	1,280
29	682	755	630	820	-----	2,310	2,160	6,050	10,500	3,790	1,440	1,250
30	626	760	615	840	-----	1,950	2,160	6,360	11,100	3,260	1,440	1,240
31	626	-----	620	850	-----	1,840	-----	6,410	-----	2,930	1,430	-----
TOTAL	31,373	24,502	21,930	21,430	23,655	38,120	54,090	141,070	241,820	146,720	63,450	38,660
MEAN	1,012	817	707	691	845	1,230	1,803	4,551	8,061	4,733	2,047	1,289
MAX	1,550	1,580	780	850	920	2,430	2,190	6,410	11,100	11,200	2,860	1,420
MIN	348	625	615	595	760	820	1,570	2,160	6,250	1,560	1,390	1,240
AC-FT	62,230	48,600	43,500	42,510	46,920	75,610	107,300	279,800	479,600	291,000	125,900	76,680
CAL YR 1970	TOTAL 470,182		MEAN 1,288		MAX 4,320		MIN 348		AC-FT 932,600			
WTR YR 1971	TOTAL 846,820		MEAN 2,320		MAX 11,200		MIN 348		AC-FT 1,680,000			

GREEN RIVER BASIN

27

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 downstream from East Fork, 2.5 miles south of Utah-Wyoming State line, and 17 miles south of Robertson.

DRAINAGE AREA.--130 sq mi, 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 above mean sea level (levels by Bureau of Reclamation). Prior to July 29, 1966, water-stage recorder at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--6 years (1938, 1966-71), 170 cfs (123,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,080 cfs June 18 (gage height, 4.36 ft); minimum, 22 cfs Mar. 24-26, 28, but may have been less during other periods of ice effect.

Period of record: Maximum discharge, 2,160 cfs June 6, 1968 (gage height, 4.91 ft); minimum indicated, 13 cfs Feb. 25, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	54	52	37	39	27	35	112	475	782	172	80
2	53	52	52	36	37	27	37	163	447	728	169	75
3	52	51	51	33	36	27	38	232	452	741	156	82
4	51	50	50	30	35	27	39	257	461	707	206	84
5	51	47	49	29	34	27	40	224	456	667	199	75
6	65	46	49	28	33	27	42	196	480	634	166	71
7	58	46	49	28	33	27	44	196	547	583	166	133
8	58	48	49	28	34	28	47	192	707	565	206	107
9	61	48	48	29	35	28	58	175	782	541	206	82
10	56	47	44	29	35	28	68	196	1,020	508	159	64
11	75	47	43	30	35	29	82	245	889	456	136	71
12	68	47	42	30	36	29	91	311	707	428	139	70
13	66	46	43	30	36	28	104	364	802	423	130	66
14	53	47	44	31	36	27	139	486	1,020	423	119	64
15	55	47	45	33	36	26	159	547	1,350	399	112	63
16	57	48	45	35	36	26	192	541	1,590	385	119	63
17	57	50	45	38	36	25	199	395	1,760	373	112	63
18	55	51	46	39	35	24	169	327	1,730	409	159	61
19	52	51	46	40	35	24	136	294	1,650	404	109	60
20	51	50	45	39	35	24	127	270	1,650	360	114	64
21	51	48	43	39	32	24	112	282	1,560	327	107	61
22	49	47	42	38	30	24	99	319	1,670	319	107	60
23	53	46	41	37	29	24	95	315	1,650	303	102	60
24	52	46	40	38	28	24	89	360	1,580	278	80	58
25	47	47	40	39	28	25	89	480	1,420	249	84	54
26	49	48	40	41	27	28	78	654	1,310	237	82	53
27	52	52	40	42	27	31	76	853	1,200	220	86	53
28	55	53	40	42	27	34	76	940	1,030	196	86	49
29	57	53	39	42	-----	36	76	810	972	196	99	52
30	57	51	39	41	-----	36	84	680	846	192	93	57
31	56	-----	38	40	-----	34	-----	565	-----	182	86	-----
TOTAL	1,726	1,464	1,379	1,091	935	855	2,720	11,981	32,213	13,215	4,066	2,055
MEAN	55.7	48.8	44.5	35.2	33.4	27.6	90.7	386	1,074	426	131	68.5
MAX	75	54	52	42	39	36	199	940	1,760	782	206	133
MIN	47	46	38	28	27	24	35	112	447	182	80	49
AC-FT	3,420	2,900	2,740	2,160	1,850	1,700	5,400	23,760	63,890	26,210	8,060	4,080

CAL YR 1970 TOTAL 56,290 MEAN 154 MAX 1,100 MIN 23 AC-FT 111,700
WTR YR 1971 TOTAL 73,700 MEAN 202 MAX 1,760 MIN 24 AC-FT 146,200

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-27	2300	3.40	1,120	6-18	0100	4.36	2,080
6-10	0100	3.42	1,140				

GREEN RIVER BASIN

09218500 Blacks Fork near Millburne, Wyoming

LOCATION.--Lat 41°03'26", long 110°34'27", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.35, T.13 N., R.117 W., Uinta County, on right bank 2.3 miles downstream from Meeks Cabin Dam, 4.0 miles north of Utah-Wyoming State line, and 15 miles southwest of Millburne.

DRAINAGE AREA.--156 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,370 ft (from topographic map). Prior to Nov. 4, 1948, at site 150 ft upstream at different datum. Nov. 5, 1948 to Sept. 30, 1952, at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--32 years, 159 cfs (115,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,400 cfs Apr. 19 (gage height, 5.49 ft); minimum daily, 3.7 cfs Nov. 12, due to regulation by Meeks Cabin Dam.

Period of record: Maximum discharge, 2,530 cfs June 7, 1957, from rating curve extended above 1,500 cfs; maximum gage height, 6.46 ft in gage well, 6.76 ft from floodmarks, June 12, 1965; minimum daily discharge, 3.7 cfs Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Flow completely regulated by Meeks Cabin Reservoir (capacity, 39,600 acre-ft) since June 1971. No diversion above station.

COOPERATION.--Five discharge measurements furnished by Bureau of Reclamation.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	50	8.9	30	57	57	63	25	682	757	190	171
2	60	40	8.8	28	55	63	64	26	544	758	190	170
3	68	30	15	27	52	62	62	27	520	762	149	169
4	50	23	13	25	50	57	61	27	520	762	121	169
5	43	14	10	22	45	53	60	28	520	762	141	171
6	58	7.9	8.4	20	45	51	56	28	520	807	156	170
7	59	5.9	6.8	20	50	52	52	29	520	1,000	157	173
8	60	6.4	7.2	22	53	55	48	29	550	1,110	155	171
9	64	6.7	8.0	23	55	57	45	150	616	1,100	154	170
10	75	6.8	9.1	25	60	63	38	604	664	1,080	153	168
11	67	6.1	11	26	63	67	30	791	682	1,080	153	168
12	60	3.7	13	27	65	65	28	742	688	1,070	153	167
13	63	4.5	17	26	68	61	26	682	688	1,010	153	165
14	62	6.0	21	27	70	56	26	658	714	954	152	137
15	58	6.7	25	27	67	60	26	646	798	871	151	116
16	54	7.5	25	26	65	63	27	658	942	655	151	116
17	62	7.9	24	25	63	60	27	652	1,030	543	150	116
18	50	7.5	24	24	61	64	27	634	1,040	540	172	115
19	48	7.4	23	25	59	67	228	455	1,060	540	186	114
20	50	8.0	22	24	56	71	854	412	1,080	539	185	114
21	54	9.0	21	25	53	73	694	344	1,090	394	184	114
22	53	8.4	22	28	57	73	396	228	1,090	256	185	114
23	45	9.5	24	35	60	71	171	234	1,090	256	184	112
24	45	10	25	60	60	68	26	237	1,100	258	180	112
25	43	11	26	100	55	65	25	336	1,110	258	167	111
26	41	10	26	94	52	63	26	568	1,110	256	170	111
27	39	9.5	27	80	53	61	305	670	1,110	256	171	78
28	44	9.0	28	70	53	60	222	791	1,110	256	171	54
29	50	8.5	29	65	-----	62	24	819	985	255	171	54
30	54	8.0	30	63	-----	65	25	819	804	218	172	56
31	55	-----	31	62	-----	64	-----	812	-----	190	172	-----
TOTAL	1,699	348.9	589.2	1,181	1,602	1,929	3,762	13,161	24,977	19,553	5,099	3,946
MEAN	54.8	11.6	19.0	38.1	57.2	62.2	125	425	833	631	164	132
MAX	75	50	31	100	70	73	854	819	1,110	1,110	190	173
MIN	39	3.7	6.8	20	45	51	24	25	520	190	121	54
AC-FT	3,370	692	1,170	2,340	3,180	3,830	7,460	26,100	49,540	38,780	10,110	7,830

CAL YR 1970 TOTAL 65,627.1 MEAN 180 MAX 1,300 MIN 3.7 AC-FT 130,200
WTR YR 1971 TOTAL 77,847.1 MEAN 213 MAX 1,110 MIN 3.7 AC-FT 154,400

NOTE.--No gage-height record Nov. 13 to Dec. 3, Dec. 13 to Apr. 14.

GREEN RIVER BASIN

29

09220000 East Fork of Smith Fork near Robertson, Wyoming

LOCATION.--Lat 41°03'15", long 110°23'52", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.5, T.12 N., R.115 W., Uinta County, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1 mile upstream from Gilbert Creek, and 9 miles south of Robertson.

DRAINAGE AREA.--53.0 sq mi.

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

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

AVERAGE DISCHARGE.--32 years, 47.1 cfs (34,120 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 996 cfs June 17 (gage height, 6.38 ft); minimum daily, 5.2 cfs Jan. 5.
Period of record: Maximum discharge, 1,450 cfs June 10, 1965 (gage height, 6.75 ft); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft, present datum Apr. 22, 1950.

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

REVISIONS.--WSP 979: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	12	6.4	8.3	6.3	6.6	36	148	197	57	33
2	18	15	13	5.8	7.6	6.7	6.4	46	139	188	53	29
3	17	15	12	5.5	7.2	7.0	6.7	64	146	194	49	30
4	17	16	13	5.3	6.6	6.6	7.2	76	142	182	54	31
5	16	17	12	5.2	6.4	6.3	7.5	67	137	172	85	29
6	19	18	12	5.3	6.2	6.4	7.8	58	146	162	63	26
7	20	19	12	5.4	6.5	6.5	8.7	58	162	151	60	31
8	19	18	11	5.7	7.0	6.5	10	59	223	142	80	37
9	19	18	11	6.3	7.5	6.8	12	56	262	142	83	29
10	20	19	10	6.5	8.0	7.3	15	60	390	132	65	25
11	21	18	10	6.5	8.5	7.6	20	65	400	120	57	23
12	21	17	9.6	6.5	8.5	7.3	25	76	252	108	51	22
13	20	15	9.0	6.2	8.6	6.7	30	85	304	108	48	20
14	18	13	8.4	6.0	8.7	6.4	35	118	356	110	45	20
15	17	13	7.5	6.2	8.6	6.5	38	140	522	106	41	18
16	17	14	7.6	6.9	8.3	6.6	49	152	710	103	41	18
17	16	15	8.0	7.5	7.7	6.3	54	107	790	97	41	19
18	16	14	7.5	8.0	7.4	6.2	48	92	758	131	48	19
19	15	14	7.0	8.4	7.3	6.3	32	83	661	150	43	20
20	15	13	6.6	8.6	7.2	6.5	38	80	696	138	41	20
21	15	12	6.5	9.0	6.6	6.5	40	82	654	106	39	20
22	14	11	6.7	8.5	6.5	6.7	34	94	661	97	38	18
23	14	12	7.0	8.0	7.0	7.0	32	92	612	95	38	18
24	13	12	7.3	7.3	7.3	7.4	30	87	546	101	36	18
25	12	13	7.5	6.6	6.8	7.2	30	121	445	83	37	17
26	12	13	7.3	7.0	6.5	7.4	28	163	385	72	37	16
27	13	13	7.5	7.5	6.6	7.1	26	220	348	68	35	16
28	14	12	7.7	8.0	6.5	6.6	25	296	266	63	37	15
29	16	12	7.3	8.0	-----	7.0	25	253	266	60	41	15
30	17	12	7.4	8.2	-----	7.6	28	214	212	58	39	15
31	17	-----	7.6	8.5	-----	7.3	-----	175	-----	55	35	-----
TOTAL	516	439	279.0	214.8	205.9	210.6	754.9	3,375	11,739	3,691	1,517	667
MEAN	16.6	14.6	9.00	6.93	7.35	6.79	25.2	109	391	119	48.9	22.2
MAX	21	19	13	9.0	8.7	7.6	54	296	790	197	85	37
MIN	12	11	6.5	5.2	6.2	6.2	6.4	36	137	55	35	15
AC-FT	1,020	871	553	426	408	418	1,500	6,690	23,280	7,320	3,010	1,320
CAL YR 1970	TOTAL 18,271.1	MEAN 50.1	MAX 445	MIN 3.7	AC-FT 36,240							
WTR YR 1971	TOTAL 23,609.2	MEAN 64.7	MAX 790	MIN 5.2	AC-FT 46,830							

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-28	0400	5.33	332	6-17	0400	6.38	996
6-11	0230	5.62	460				

GREEN RIVER BASIN

09220500 West Fork of Smith Fork near Robertson, Wyoming

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 mile downstream from Archie Creek and 11.6 miles southwest of Robertson.

DRAINAGE AREA.--37.2 sq mi.

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 8,615.0 ft above mean sea level. July 13, 1939 to Aug. 16, 1949, at site 75 ft upstream at datum 2.00 ft higher; Aug. 17, 1949 to June 13, 1965, at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--32 years, 21.5 cfs (15,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 520 cfs May 27 (gage height, 3.34 ft); minimum daily, 1.9 cfs Oct. 5.
Period of record: Maximum discharge, 2,100 cfs June 10, 1965 (gage height, 3.20 ft, in gage well, 3.60 ft, from floodmarks, datum then in use); minimum observed, 0.2 cfs Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.9	3.9	3.0	4.4	3.2	4.5	32	162	42	7.0	3.9
2	2.5	3.7	4.1	2.9	4.0	3.3	4.2	46	186	38	6.7	3.1
3	2.4	3.4	3.9	2.8	3.7	3.4	4.4	70	207	37	6.5	4.3
4	2.3	3.1	4.0	2.6	3.4	3.3	5.0	74	198	34	7.2	4.8
5	1.9	2.9	4.0	2.4	3.2	3.3	6.7	57	186	32	11	4.1
6	3.0	3.2	4.0	2.5	3.1	3.1	9.0	44	186	30	9.4	3.6
7	3.8	3.5	3.9	2.6	3.0	3.1	13	50	216	26	9.0	10
8	4.3	3.8	3.9	2.8	2.9	3.2	17	52	250	25	16	8.2
9	5.3	3.9	3.8	2.9	2.9	3.3	22	50	250	25	16	5.0
10	5.4	3.8	3.8	3.1	3.0	3.4	27	68	254	21	11	3.9
11	5.6	3.8	3.7	3.1	3.2	3.5	34	94	195	20	8.7	3.6
12	6.2	3.8	3.5	3.0	3.3	3.5	37	112	140	17	7.9	3.2
13	7.3	3.6	3.5	2.9	3.4	3.5	42	124	162	15	7.0	3.0
14	4.6	3.3	3.3	2.9	3.5	3.4	44	189	201	15	6.5	2.8
15	3.4	3.3	3.2	3.2	3.5	3.3	48	225	244	15	6.2	2.6
16	3.6	3.5	3.1	3.5	3.3	3.3	57	210	250	14	6.5	3.0
17	3.6	3.7	3.2	3.8	3.2	3.3	56	120	247	15	7.0	3.7
18	3.2	3.8	3.1	4.2	3.1	3.2	42	84	219	24	9.0	3.8
19	3.7	3.7	2.9	4.8	3.1	3.3	30	69	189	31	7.0	3.7
20	3.2	3.5	2.7	5.2	3.0	3.3	26	65	165	26	6.5	4.1
21	3.9	3.3	2.7	5.2	2.9	3.2	23	89	150	18	5.7	4.1
22	3.6	3.1	2.8	4.8	2.8	3.3	20	124	155	16	5.7	3.9
23	3.5	3.2	2.9	4.3	2.9	3.5	20	126	140	15	5.5	3.7
24	3.3	3.5	2.8	4.0	3.1	3.6	20	142	120	14	4.8	3.7
25	3.1	3.8	2.8	3.8	3.0	3.4	21	210	99	12	5.2	3.4
26	3.1	4.2	2.9	3.9	2.9	3.6	18	278	83	10	5.7	3.4
27	3.3	4.0	3.0	4.0	3.0	4.0	16	342	73	9.1	4.6	3.6
28	3.7	3.8	3.1	4.3	3.0	4.5	15	322	61	8.7	6.1	3.6
29	3.9	3.9	3.2	4.5	-----	5.2	18	250	55	7.9	7.3	3.7
30	4.1	3.9	3.2	4.5	-----	5.0	24	204	46	7.6	5.9	4.6
31	4.1	-----	3.2	4.6	-----	4.8	-----	160	-----	7.3	5.0	-----
TOTAL	117.5	107.9	104.1	112.1	89.8	110.3	723.8	4,082	5,089	627.6	233.6	122.1
MEAN	3.79	3.60	3.36	3.62	3.21	3.56	24.1	132	170	20.2	7.54	4.07
MAX	7.3	4.2	4.1	5.2	4.4	5.2	57	342	254	42	16	10
MIN	1.9	2.9	2.7	2.4	2.8	3.1	4.2	32	46	7.3	4.6	2.6
AC-FT	233	214	206	222	178	219	1,440	8,100	10,090	1,240	463	242

CAL YR 1970 TOTAL 8,623.6 MEAN 23.6 MAX 314 MIN 1.9 AC-FT 17,100
WTR YR 1971 TOTAL 11,519.8 MEAN 31.6 MAX 342 MIN 1.9 AC-FT 22,850

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G.HT	DISCHARGE	DATE	TIME	G.HT	DISCHARGE
5-15	1930	2.86	310	6-7	2130	3.04	382
5-27	2030	3.34	520	6-15	2200	2.97	354

GREEN RIVER BASIN

31

09226000 Henrys Fork near Lonetree, Wyoming

LOCATION.--Lat 41°00'23", long 110°16'13", in NE¼SE¼NW¼ sec.21, T.12 N., R.114 W., Uinta County, on right bank 0.6 mile downstream from Wasatch National Forest boundary, 1 mile downstream from West Fork, 1.5 miles downstream from Utah-Wyoming State line, and 7 miles southwest of Lonetree.

DRAINAGE AREA.--56 sq mi, approximately.

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,350 ft (from topographic map). Prior to Aug. 12, 1953, at site 0.5 mile upstream at different datum.

AVERAGE DISCHARGE.--29 years, 40.8 cfs (29,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 980 cfs June 22 (gage height, 5.40 ft, from floodmark); minimum daily, 5.8 cfs Jan. 5. Period of record: Maximum discharge, 2,010 cfs June 10, 1965 (gage height, 5.70 ft in gage well, 6.30 ft from floodmarks), on basis of slope-area measurement of peak flow; minimum daily, 1.8 cfs Jan. 12, 19, 26, 27, 1963, but may have been less on individual days during periods of ice effect or no gage-height record.

REMARKS.--Records poor. One diversion in Utah above station for irrigation of land below station. Water-quality records for the current year are published in Part 2 of this report. Henrys Fork ditch bypasses the station; result of discharge measurement, in cubic feet per second, is given below:

June 4 8.81

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	10	7.6	12	8.8	9.7	29	140	150	39	18
2	11	11	9.8	6.7	11	9.6	9.1	37	130	140	37	17
3	10	11	10	6.3	11	9.8	9.5	51	135	145	36	17
4	10	12	9.9	6.1	10	9.2	10	59	140	138	42	18
5	10	13	9.9	5.8	9.2	8.8	11	51	130	130	57	18
6	11	13	10	6.0	9.0	9.0	11	46	140	120	42	17
7	11	14	9.9	6.1	9.0	9.1	12	45	160	115	39	20
8	10	14	9.5	6.5	9.2	9.2	13	46	200	108	48	23
9	13	14	9.3	7.0	10	9.5	15	44	250	105	50	19
10	13	14	8.7	7.4	11	10	17	47	310	98	39	17
11	14	14	8.4	7.2	12	11	20	52	325	92	34	17
12	18	13	7.9	7.4	12	10	22	59	225	86	32	16
13	17	12	7.6	7.0	13	9.4	26	67	250	83	31	16
14	16	11	7.0	6.8	13	9.0	29	91	285	91	29	15
15	15	10	6.3	7.2	12	9.1	32	110	400	93	28	14
16	14	10	6.4	7.7	12	9.2	38	120	525	84	27	15
17	14	11	6.6	8.5	11	8.9	42	91	580	82	29	15
18	13	12	6.2	9.0	11	8.7	36	78	540	124	34	15
19	13	12	5.9	10	10	8.9	26	71	490	138	28	15
20	12	11	6.4	11	10	9.3	30	68	510	110	25	16
21	12	10	6.9	12	9.3	9.0	31	69	470	86	23	15
22	11	9.3	7.2	11	9.1	9.1	27	79	490	80	22	14
23	11	9.5	7.2	10	9.8	9.7	25	78	450	82	22	14
24	10	10	7.7	9.2	10	9.9	24	75	360	82	20	13
25	9.1	11	8.4	8.4	9.5	10	23	105	310	67	20	13
26	9.1	11	8.3	8.8	9.1	11	22	140	260	60	21	12
27	10	11	8.7	9.4	9.3	11	21	230	230	56	20	12
28	11	11	8.9	10	9.1	12	20	260	190	51	20	11
29	12	10	8.3	11	-----	12	20	230	180	48	23	11
30	13	9.8	8.4	12	-----	11	22	200	165	44	21	12
31	13	-----	8.8	12	-----	11	-----	170	-----	43	19	-----
TOTAL	377.2	346.6	254.5	261.1	292.6	302.2	653.3	2,898	8,970	2,931	957	465
MEAN	12.2	11.6	8.21	8.42	10.5	9.75	21.8	93.5	299	94.5	30.9	15.5
MAX	18	14	10	12	13	12	42	260	580	150	57	23
MIN	9.1	9.3	5.9	5.8	9.0	8.7	9.1	29	130	43	19	11
AC-FT	748	687	505	518	580	599	1,300	5,750	17,790	5,810	1,900	922

CAL YR 1970 TOTAL 12,100.5 MEAN 33.2 MAX 413 MIN 4.2 AC-FT 24,000
WTR YR 1971 TOTAL 18,708.5 MEAN 51.3 MAX 580 MIN 5.8 AC-FT 37,110

NOTE.--No gage-height record Oct. 13 to July 13.

GREEN RIVER BASIN

09228500 Burnt Fork near Burntfork, Wyoming

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 mile west of forest boundary and 6.5 miles southwest of Burntfork.

DRAINAGE AREA.--52.8 sq mi.

PERIOD OF RECORD.--April 1943 to current year. Monthly discharge only for some periods, published in WSP 1313.

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

AVERAGE DISCHARGE.--28 years, 31.1 cfs (22,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 422 cfs June 17 (gage height, 3.49 ft); minimum daily, 3.3 cfs Apr. 2.

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

REMARKS.--Records fair except those for winter period and period of no gage-height record, which are poor. Flow is partially regulated by Island Lake (capacity, 797 acre-ft) and Beaver Meadows Reservoir (capacity, 1,722 acre-ft). Diversion out of basin above station into Hoop Lake (capacity, 3,920 acre-ft).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	6.7	7.1	6.4	5.7	5.5	3.6	9.0	105	118	31	18
2	18	6.3	7.5	6.1	5.6	5.5	3.3	13	112	115	29	18
3	18	5.8	8.0	5.6	5.4	5.5	3.8	21	118	120	28	20
4	17	5.9	7.7	5.3	5.2	5.5	4.5	24	110	110	31	21
5	16	6.2	7.7	5.0	5.1	5.5	5.0	17	114	102	41	19
6	18	6.3	7.7	5.3	5.0	5.5	5.5	16	129	97	35	18
7	19	6.5	7.7	5.5	5.2	5.0	5.2	14	159	93	33	23
8	19	7.0	7.7	5.7	5.5	4.8	4.8	13	188	90	37	24
9	19	7.2	7.4	6.1	5.7	5.0	4.6	13	192	84	38	19
10	19	7.4	7.0	6.3	5.7	5.1	4.9	14	250	80	33	18
11	19	7.4	6.7	6.6	5.7	5.1	5.6	13	230	75	30	17
12	20	7.0	6.5	6.6	5.7	5.1	6.4	19	188	71	29	17
13	19	7.0	6.2	6.3	5.7	5.1	6.0	26	205	68	28	16
14	14	7.5	6.0	6.6	5.7	5.0	6.4	42	230	66	26	16
15	13	7.7	6.2	7.2	5.5	4.8	7.6	53	307	63	26	15
16	12	7.5	6.6	6.9	5.5	4.3	9.0	57	304	60	25	15
17	11	7.1	6.5	6.9	5.5	4.2	10	42	307	64	29	16
18	10	6.6	6.2	6.9	5.2	4.1	8.7	32	292	74	27	16
19	9.5	6.8	6.1	7.2	4.8	4.3	7.2	26	280	85	26	16
20	9.4	7.0	5.8	6.9	4.7	4.5	7.0	28	241	77	25	16
21	9.3	6.8	6.2	6.0	4.5	4.8	7.7	36	222	70	24	16
22	9.1	6.5	6.5	5.5	4.5	5.2	8.3	46	265	63	23	16
23	8.4	6.7	6.6	5.0	4.7	5.0	7.7	42	268	58	22	16
24	7.6	6.9	6.8	5.2	5.0	5.0	7.0	41	259	55	21	16
25	7.2	6.7	7.0	5.6	4.8	4.6	6.2	68	240	48	21	15
26	6.9	6.6	7.2	5.9	4.6	4.1	5.5	91	220	43	21	14
27	6.7	6.4	7.2	6.2	4.7	3.9	5.1	138	200	39	21	14
28	6.8	5.9	7.2	6.0	5.0	4.0	5.0	147	170	36	20	13
29	6.9	6.3	6.9	5.8	-----	4.2	5.8	127	142	33	21	13
30	7.3	6.7	6.9	5.8	-----	4.1	6.8	112	125	31	20	13
31	7.4	-----	6.8	5.8	-----	3.8	-----	114	-----	30	19	-----
TOTAL	401.5	202.4	213.6	188.2	145.9	148.1	184.2	1,454.0	6,172	2,218	840	504
MEAN	13.0	6.75	6.89	6.07	5.21	4.78	6.14	46.9	206	71.5	27.1	16.8
MAX	20	7.7	8.0	7.2	5.7	5.5	10	147	307	120	41	24
MIN	6.7	5.8	5.8	5.0	4.5	3.8	3.3	9.0	105	30	19	13
AC-FT	796	401	424	373	289	294	365	2,880	12,240	4,400	1,670	1,000

CAL YR 1970 TOTAL 11,413.8 MEAN 31.3 MAX 153 MIN 1.2 AC-FT 22,640
WTR YR 1971 TOTAL 12,671.9 MEAN 34.7 MAX 307 MIN 3.3 AC-FT 25,130

NOTE.--No gage-height record June 25 to Aug. 10.

GREEN RIVER BASIN

33

09229500 Henrys Fork at Linwood, Utah

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 mile north of Wyoming-Utah State line, 1.3 miles upstream from normal high-water line of Flaming Gorge Reservoir, 1.5 miles northwest of Linwood, and 3 miles northeast of Manila, Utah.

DRAINAGE AREA.--520 sq mi, approximately.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (from topographic map). Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2 miles 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 mile upstream at different datums.

AVERAGE DISCHARGE.--43 years, 81.3 cfs (58,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,500 cfs June 17 (gage height, 5.58 ft); minimum daily, 5.7 cfs Aug. 22, 24, 25, Sept. 6. Period of record: Maximum discharge determined, 6,750 cfs Aug. 3, 1936 (gage height, 7.19 ft, site and datum then in use, from floodmarks), from rating curve extended above 570 cfs on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959 (gage height, 9.42 ft, discharge not determined); no flow for several days in 1933-35, 1939-40.

REMARKS.--Records poor. Peoples Irrigation Canal diverts 5.9 miles 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. WRD Wyo. 1968: 1966-67.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	87	72	51	76	35	73	110	401	286	43	8.2
2	43	82	74	48	65	35	62	120	306	245	44	6.1
3	43	74	72	43	58	38	67	132	310	221	38	6.4
4	43	67	68	38	55	38	67	144	266	215	32	6.1
5	43	81	70	35	51	35	66	154	233	210	37	6.4
6	46	90	76	32	60	33	76	151	248	202	43	5.7
7	56	95	80	30	70	35	82	156	248	178	37	8.2
8	62	94	83	32	80	40	73	180	266	154	32	12
9	68	85	83	33	80	45	79	156	389	128	32	20
10	75	95	80	33	84	50	79	185	540	108	34	18
11	82	70	80	34	90	58	80	144	662	94	32	22
12	75	73	77	35	94	67	88	136	615	82	25	21
13	78	78	74	40	94	69	84	151	515	74	22	20
14	79	47	67	45	90	66	87	165	535	70	18	18
15	77	48	63	50	84	70	87	168	794	72	17	17
16	75	74	55	80	76	76	88	188	1,110	69	15	17
17	77	72	56	120	66	70	90	212	1,220	65	14	18
18	76	65	57	190	60	67	90	185	1,230	90	12	21
19	76	69	54	300	57	74	120	165	1,180	140	12	22
20	78	67	50	270	50	80	130	147	1,060	147	6.1	23
21	74	85	48	200	43	84	126	142	992	393	6.1	23
22	82	91	47	150	37	100	202	128	1,020	172	5.7	23
23	87	85	48	130	37	150	254	144	1,090	163	6.1	20
24	84	95	50	130	39	210	198	170	1,030	160	5.7	20
25	86	127	53	120	43	330	192	160	902	134	5.7	18
26	70	112	53	130	44	417	160	165	605	90	6.4	17
27	64	86	51	130	40	575	144	190	466	79	6.8	18
28	62	63	53	125	37	369	134	296	397	62	9.0	18
29	70	65	54	115	-----	338	132	365	357	49	9.0	18
30	80	67	55	100	-----	254	130	671	334	44	8.2	21
31	86	-----	56	86	-----	120	-----	590	-----	39	7.8	-----
TOTAL	2,139	2,389	1,959	2,955	1,760	4,028	3,340	6,150	19,321	4,235	621.6	492.1
MEAN	69.0	79.6	63.2	95.3	62.9	130	111	198	644	137	20.1	16.4
MAX	87	127	83	300	94	575	254	671	1,230	393	44	23
MIN	42	47	47	30	37	33	62	110	233	39	5.7	5.7
AC-FT	4,240	4,740	3,890	5,860	3,490	7,990	6,620	12,200	38,320	8,400	1,230	976

CAL YR 1970 TOTAL 32,787.0 MEAN 89.8 MAX 800 MIN 17 AC-FT 65,030
WTR YR 1971 TOTAL 49,389.7 MEAN 135 MAX 1,230 MIN 5.7 AC-FT 97,960

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 southwest of Dutch John, and 4 miles northeast of Greendale.

DRAINAGE AREA.--15,100 sq mi, 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 upstream from face of dam.

EXTREMES.--Current year: Maximum contents observed, 3,046,000 acre-ft Aug. 4 (elevation, 6,021.93 ft); minimum observed, 1,748,000 acre-ft Jan. 12 (elevation, 5,978.74 ft).

Period of record: Maximum contents observed, 3,046,000 acre-ft Aug. 4, 1971 (elevation, 6,021.93 ft); minimum, 582,900 acre-ft, 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, consisting of the following: Dead storage, 39,700 acre-ft below elevation 5,740 ft; inactive storage, 233,500 acre-ft between elevations 5,740 and 5,871 ft; usable contents, 3,516,000 acre-ft between elevations 5,871 and 6,040 ft (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)

5,975	1,658,000	6,010	2,639,000
5,980	1,780,000	6,020	2,977,000
5,990	2,042,000	6,022	3,048,000
6,000	2,327,000		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR CCTCBEP 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,789	1,802	1,794	1,761	1,780	1,807	1,878	1,992	2,350	2,871	3,043	2,999
2	1,786	1,802	1,793	1,761	1,783	1,807	1,882	1,998	2,366	2,889	3,045	2,995
3	1,786	1,802	1,792	1,760	1,787	1,807	1,885	2,003	2,383	2,905	3,045	2,993
4	1,785	1,801	1,792	1,757	1,789	1,808	1,887	2,010	2,399	2,922	3,046	2,990
5	1,784	1,801	1,791	1,755	1,790	1,808	1,888	2,016	2,416	2,936	3,045	2,988
6	1,785	1,801	1,791	1,753	1,790	1,809	1,888	2,023	2,431	2,953	3,044	2,985
7	1,786	1,802	1,790	1,751	1,790	1,809	1,889	2,029	2,446	2,966	3,044	2,984
8	1,786	1,802	1,790	1,745	1,789	1,810	1,890	2,038	2,463	2,978	3,044	2,982
9	1,787	1,801	1,790	1,749	1,790	1,811	1,891	2,046	2,478	2,986	3,042	2,979
10	1,788	1,801	1,790	1,750	1,792	1,811	1,893	2,054	2,493	2,995	3,042	2,977
11	1,789	1,800	1,789	1,749	1,793	1,812	1,896	2,060	2,509	3,000	3,043	2,974
12	1,791	1,800	1,788	1,748	1,793	1,813	1,899	2,068	2,526	3,003	3,041	2,971
13	1,793	1,800	1,788	1,749	1,795	1,814	1,901	2,078	2,542	3,005	3,039	2,967
14	1,793	1,800	1,786	1,749	1,795	1,815	1,902	2,089	2,559	3,005	3,037	2,965
15	1,795	1,800	1,784	1,749	1,797	1,816	1,904	2,101	2,575	3,004	3,036	2,962
16	1,796	1,801	1,781	1,749	1,798	1,818	1,904	2,115	2,594	3,004	3,035	2,959
17	1,797	1,801	1,781	1,751	1,800	1,819	1,905	2,129	2,613	3,003	3,034	2,956
18	1,799	1,802	1,780	1,755	1,802	1,821	1,910	2,145	2,633	3,003	3,031	2,952
19	1,800	1,800	1,778	1,757	1,804	1,821	1,915	2,160	2,652	3,003	3,029	2,950
20	1,801	1,799	1,777	1,760	1,805	1,822	1,919	2,177	2,671	3,001	3,027	2,949
21	1,802	1,795	1,775	1,763	1,805	1,823	1,925	2,193	2,689	3,003	3,025	2,947
22	1,804	1,798	1,773	1,767	1,806	1,825	1,935	2,208	2,707	3,005	3,023	2,945
23	1,805	1,797	1,771	1,768	1,807	1,827	1,941	2,221	2,725	3,008	3,021	2,943
24	1,805	1,797	1,765	1,768	1,807	1,831	1,950	2,234	2,741	3,014	3,018	2,942
25	1,805	1,796	1,768	1,769	1,808	1,837	1,959	2,245	2,758	3,021	3,016	2,943
26	1,805	1,796	1,768	1,769	1,807	1,846	1,966	2,256	2,777	3,026	3,013	2,940
27	1,804	1,796	1,767	1,770	1,807	1,853	1,970	2,270	2,795	3,031	3,011	2,937
28	1,803	1,795	1,765	1,771	1,807	1,861	1,974	2,284	2,812	3,036	3,009	2,934
29	1,803	1,795	1,764	1,772	-----	1,867	1,981	2,299	2,830	3,038	3,007	2,933
30	1,802	1,795	1,762	1,774	-----	1,871	1,986	2,318	2,850	3,041	3,004	2,931
31	1,802	-----	1,761	1,777	-----	1,874	-----	2,337	-----	3,042	3,001	-----
MAX	1,805	1,802	1,794	1,777	1,808	1,874	1,986	2,337	2,850	3,042	3,046	2,999
MIN	1,784	1,795	1,761	1,748	1,780	1,807	1,878	1,992	2,350	2,871	3,001	2,931
(†)	5,980.90	5,980.61	5,979.25	5,979.88	5,981.09	5,983.72	5,987.94	6,000.32	6,016.35	6,021.83	6,020.67	6,018.68
(‡)	+11	-7	-34	+16	+30	+67	+112	+351	+513	+192	-41	-70

CAL YR 1970..... † +196

WTR YR 1971..... † +1,140

† Elevation, in feet, at end of month.

‡ Change in contents, in thousands of acre-feet.

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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 downstream from Flaming Gorge Dam, 2 miles south of Dutch John, 4 miles northeast of Greendale, 13 miles southeast of Linwood, and 407.0 miles from mouth.

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

AVERAGE DISCHARGE.--21 years, 1,961 cfs (1,421,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,690 cfs Sept. 7 (gage height, 6.54 ft); minimum, 326 cfs Sept. 13.
Period of record: Maximum discharge, 19,600 cfs June 12, 1957 (gage height, 10.60 ft, site and datum then in use); minimum, 2.3 cfs 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 upstream, since Nov. 1, 1962 (see sta 09234400). Records of chemical analysis and water temperatures for the water year 1971 are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,560	817	1,520	1,070	636	1,030	941	671	1,690	1,610	1,860	2,490
2	1,730	814	1,080	1,190	682	803	1,160	436	1,450	1,660	2,110	2,550
3	655	816	1,080	1,180	693	692	1,770	820	1,160	1,810	2,440	2,570
4	815	816	1,090	1,930	759	662	672	701	1,500	1,640	2,530	2,340
5	933	909	1,090	1,480	700	716	1,750	649	1,550	1,790	2,430	2,250
6	792	868	1,090	1,440	695	819	1,650	670	1,550	1,600	2,520	2,400
7	895	827	1,090	1,440	781	713	2,140	880	1,620	1,610	2,410	2,560
8	978	1,060	1,090	1,580	1,340	682	1,630	989	1,520	1,670	2,460	2,700
9	1,370	971	1,210	799	768	722	1,620	1,330	1,530	1,630	2,430	2,660
10	906	1,080	1,100	787	703	749	914	2,300	1,620	1,630	2,490	2,670
11	851	1,090	1,450	763	770	789	1,390	2,380	1,670	1,650	2,470	2,660
12	1,060	1,090	1,090	683	746	727	1,510	1,920	1,680	2,070	2,390	2,530
13	1,210	1,090	1,090	872	728	572	2,180	2,090	1,620	1,840	2,450	2,560
14	1,080	1,090	1,270	775	739	702	1,960	1,570	1,760	2,420	2,460	2,260
15	821	1,190	1,300	759	737	714	1,590	1,190	1,750	2,380	2,360	2,590
16	1,010	1,250	1,940	817	715	685	2,300	1,190	1,770	2,050	2,520	2,520
17	992	1,270	1,720	422	737	682	2,300	1,200	1,690	2,000	2,470	2,300
18	880	1,440	1,650	767	713	654	571	1,190	1,580	1,970	2,500	2,290
19	1,010	1,930	1,360	671	748	1,530	1,900	1,190	1,700	2,050	2,360	2,080
20	838	1,270	1,080	768	619	668	1,000	1,190	1,570	2,200	2,500	1,900
21	970	1,070	1,740	781	841	662	751	1,200	1,700	2,290	2,500	2,010
22	805	1,070	1,560	434	714	1,360	768	1,200	1,790	2,170	2,440	2,020
23	842	1,660	1,600	668	720	754	1,010	1,780	1,660	2,060	2,740	1,990
24	793	1,280	1,200	505	713	682	456	2,550	1,920	1,690	2,630	2,050
25	794	1,070	1,080	995	716	667	654	2,770	1,660	1,760	2,640	1,950
26	902	1,070	1,080	865	1,490	626	1,310	2,520	1,810	1,840	2,500	1,940
27	986	1,160	1,070	869	735	708	1,710	1,800	2,080	1,910	2,410	2,060
28	821	1,080	1,640	727	718	592	763	1,740	2,270	2,110	2,460	1,970
29	828	1,080	1,360	734	-----	980	859	1,740	1,670	1,970	2,410	1,720
30	821	1,090	1,510	776	-----	1,330	1,420	1,650	1,660	1,880	2,620	1,910
31	814	-----	1,190	436	-----	528	-----	1,660	-----	1,900	2,540	-----
TOTAL	29,762	33,318	40,420	27,983	21,656	24,200	40,649	45,166	50,200	58,860	76,050	68,500
MEAN	960	1,111	1,304	903	773	781	1,355	1,457	1,673	1		

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 downstream from Clay Basin Creek, 7.4 miles upstream from mouth, and 9.0 miles east of Dutch John.

DRAINAGE AREA.--140 sq mi.

PERIOD OF RECORD.--February to September 1971.

GAGE.--Water-stage recorder. Sack-concrete control since July 29, 1971. Altitude of gage is 6,180 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 149 cfs Aug. 30 (gage height, 3.40 ft, from floodmarks), from rating table extended above 10 cfs; no flow Aug. 14-28, Sept. 14.

REMARKS.--Records poor. Records of water temperatures and suspended-sediment loads for the period are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					4.0	3.5	4.4	7.8	20	11	1.3	3.5
2					4.0	3.5	2.9	7.6	15	10	1.4	3.0
3					4.0	3.5	3.3	7.0	9.5	10	1.3	9.0
4					4.0	3.5	4.5	8.7	9.4	10	1.5	7.0
5					4.0	3.8	4.9	12	9.3	9.4	1.7	5.0
6					3.5	3.4	5.7	12	9.8	8.8	1.5	5.0
7					3.5	3.0	7.0	13	10	7.9	.51	20
8					3.5	3.5	8.4	12	10	7.8	.19	3.3
9					3.5	6.0	6.5	30	10	5.4	.43	3.0
10					3.5	7.0	5.6	20	9.3	4.7	.82	.78
11					5.0	8.4	6.2	15	9.6	4.0	.25	.77
12					5.0	11	5.5	14	9.8	3.3	.93	.41
13					5.0	6.6	5.7	15	10	1.6	.50	.23
14					5.0	3.5	6.0	15	10	1.7	0	0
15					5.0	2.5	6.2	14	9.5	1.8	0	.15
16					4.0	2.3	7.5	17	7.0	1.8	0	.10
17					3.5	1.7	6.5	19	6.5	1.7	0	.53
18					3.0	3.0	7.6	17	6.5	2.6	0	.60
19					2.4	3.3	7.7	15	7.0	1.5	0	.60
20					2.4	7.8	12	16	7.0	2.1	0	.60
21					2.4	20	13	15	7.9	2.2	0	.70
22					2.3	18	14	15	7.3	2.3	0	.70
23					2.3	12	14	20	8.4	1.9	0	.80
24					2.3	13	14	17	8.3	2.2	0	.90
25					2.2	13	12	15	8.5	2.2	0	.90
26					4.5	20	14	16	11	1.9	0	1.5
27					3.5	5.0	15	15	11	4.5	0	1.7
28					3.5	5.7	12	16	13	2.2	0	1.7
29					-----	5.4	14	17	14	1.1	2.0	1.8
30					-----	7.1	10	75	14	1.6	6.0	1.8
31		-----			-----	6.5	-----	40	-----	1.5	5.0	-----
TOTAL					100.8	216.5	256.1	548.1	298.6	130.7	25.33	76.07
MEAN					3.60	6.98	8.54	17.7	9.95	4.22	.82	2.54
MAX					5.0	20	15	75	20	11	6.0	20
MIN					2.2	1.7	2.9	7.0	6.5	1.1	0	0
AC-FT					200	429	508	1,090	592	259	50	151

GREEN RIVER BASIN

37

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 upstream from Matt Warner reservoir, and 27 miles northeast of Vernal.

DRAINAGE AREA.--25 sq mi, approximately.

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

AVERAGE DISCHARGE.--14 years, 3.17 cfs (2,300 acre-ft per year).

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

EXTREMES.--Current year: Maximum discharge, 57 cfs May 30 (gage height, 2.70 ft); maximum gage height 3.40 ft Mar. 28 (backwater from ice); no flow part of year.

Period of record: Maximum discharge recorded, 235 cfs Apr. 2, 1961 (gage height, 3.82 ft, site and datum then in use); maximum gage height recorded, 4.57 ft Apr. 11, 1969 (backwater from ice); no flow for part of each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.19	.85			0	12	13	43	1.5		0
2	.12	.16	.80			0	11	14	36	1.6		0
3	.14	.14	.75			0	11	15	32	1.2		0
4	.14	.14	.70			0	10	16	31	.96		0
5	.16	.16	.70			0	9.5	16	32	.90		0
6	.14	.19	.65			0	9.5	15	31	.81		0
7	.14	.22	.60			0	9.5	20	27	.76		0
8	.12	.16	.60			0	9.5	25	23	.76		.02
9	.16	.24	.60			0	10	33	21	.62		0
10	.22	.24	.60			0	11	39	20	.44		0
11	.22	.22	.55			0	12	29	18	.38		0
12	.27	.22	.50			0	12	25	17	.33		0
13	.30	.76	.45			0	13	25	15	.30		0
14	.22	.53	.35			0	11	29	15	.33		0
15	.14	.76	.30			0	11	34	13	.33		0
16	.14	.81	.20			0	11	35	11	.24		0
17	.12	.80	.15			0	8.9	36	9.4	.22		0
18	.12	.70	.10			0	8.1	31	7.9	.27		0
19	.14	.60	.10			0	7.4	28	7.0	.44		.06
20	.14	.55	.09			0	7.0	25	6.1	.41		.12
21	.14	.50	.08			0	7.9	21	5.3	.41		.14
22	.16	.50	.03			0	14	19	4.4	.30		.14
23	.19	.45	.02			0	16	20	3.9	.30		.14
24	.27	.45	.01			0	22	21	3.1	.38		.16
25	.24	.45	0			.01	22	20	2.5	.22		.12
26	.22	.50	0			.15	18	19	2.2	.16		.12
27	.19	.55	0			2.0	15	19	1.9	.02		.12
28	.16	.65	0			5.0	14	20	1.9	0		.14
29	.19	.75	0		-----	8.0	12	23	2.0	0		.14
30	.19	.80	0		-----	15	12	37	2.5	0		.16
31	.19	-----	0		-----	14	-----	50	-----	0		-----
TOTAL	5.41	13.39	9.78	0	0	44.16	357.3	772	445.1	14.59	0	1.58
MEAN	.17	.45	.32	0	0	1.42	11.9	24.9	14.8	.47	0	.053
MAX	.30	.81	.85	0	0	15	22	50	43	1.6	0	.16
MIN	.12	.14	0	0	0	0	7.0	13	1.9	0	0	0
AC-FT	11	27	19	0	0	88	709	1,530	883	29	0	3.1

CAL YR 1970 TOTAL 1,436.84 MEAN 3.94 MAX 41 MIN 0 AC-FT 2,850
WTR YR 1971 TOTAL 1,663.31 MEAN 4.56 MAX 50 MIN 0 AC-FT 3,300

PEAK DISCHARGE (BASE, 30 CFS)

NOTE.--No gage-height record Nov. 17 to Mar. 23 (no flow during most of period).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-10	0300	2.38	44	5-30	2300	2.70	57
5-15	1400	2.48	48				

GREEN RIVER BASIN

09235800 Pot Creek near Vernal, Utah

LOCATION.--Lat 40°40'25", long 109°03'03", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.2 S., R.25 E., Daggett County, on left bank 0.2 mile upstream from Utah-Colorado State line, 7 miles upstream from mouth, and 29 miles northeast of Vernal.

DRAINAGE AREA.--106 sq mi.

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

AVERAGE DISCHARGE.--14 years, 1.72 cfs (1,250 acre-ft per year).

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

EXTREMES.--Current year: Maximum discharge, 50 cfs May 9 (gage height, 1.87 ft); maximum gage height, 2.96 ft sometime during period Dec. 27 to Mar. 30 (backwater from ice); no flow for part of year.

Period of record: Maximum discharge, 286 cfs Apr. 7, 1962 (gage height 3.85 ft), from rating curve extended above 170 cfs; maximum gage height, 3.99 ft Mar. 15, 1966 (backwater from ice); no flow for part of each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.04			0	1.4	1.2	.31	0	5.7	0
2	0	0	.04			0	.89	1.0	.30	0	5.6	0
3	0	0	.04			0	.67	.88	.29	0	4.3	0
4	0	0	.03			0	.50	.79	.28	0	.94	0
5	0	0	.02			0	.45	.84	.27	0	.34	0
6	0	0	.02			0	.40	.79	.26	0	.16	0
7	.11	.10	.02			0	.35	1.3	.26	0	.07	.19
8	.15	.18	.01			0	.31	3.1	.25	0	.03	.06
9	.12	.17	0			.15	.26	31	.23	0	.01	.01
10	.20	.15	0			1.0	.23	9.9	.22	5.8	.01	0
11	.28	.12	0			2.0	.21	5.0	.19	12	0	0
12	.27	.10	0			3.0	.21	3.5	.17	14	0	0
13	.26	.10	0			1.0	.18	2.4	.16	15	0	0
14	.26	.10	0			.15	.18	2.1	.15	9.3	0	0
15	.24	.09	0			.10	.19	3.8	.14	6.6	0	0
16	.24	.08	0			.10	.18	1.9	.11	6.4	0	0
17	.18	.08	0			.10	.18	1.2	.09	6.5	0	0
18	.18	.08	0			.10	.41	1.0	.07	6.7	0	0
19	.12	.06	0			.10	1.7	.77	.06	7.3	0	0
20	.10	.06	0			.10	2.9	.56	.03	7.2	0	0
21	.09	.06	0			1.0	4.4	.58	.02	7.2	0	0
22	.08	.04	0			5.0	10	3.1	.01	6.8	0	0
23	.06	.04	0			4.0	7.5	1.1	0	7.0	0	0
24	.05	.04	0			3.5	8.1	.66	0	6.6	0	0
25	.02	.04	0			4.0	4.9	.47	0	6.4	0	0
26	.02	.02	0			7.0	3.3	.38	0	6.4	0	0
27	0	.02	0			9.0	2.8	.36	0	6.3	.01	0
28	0	.02	0			7.0	3.1	.35	0	6.2	0	0
29	0	.02	0			10	2.0	.34	0	6.0	0	0
30	0	.04	0			15	1.5	.33	0	6.0	0	0
31	0	-----	0			3.3	-----	.32	-----	5.9	0	-----
TOTAL	3.03	1.81	.22	0	0	76.70	59.40	81.02	3.87	167.6	17.17	.26
MEAN	.098	.060	.007	0	0	2.47	1.98	2.61	.13	5.41	.55	.009
MAX	.28	.18	.04	0	0	15	10	31	.31	15	5.7	.19
MIN	0	0	0	0	0	0	.18	.32	0	0	0	0
AC-FT	6.0	3.6	.4	0	0	152	118	161	7.7	332	34	.5

CAL YR 1970 TOTAL 445.92 MEAN 1.22 MAX 43 MIN 0 AC-FT 884
WTR YR 1971 TOTAL 411.08 MEAN 1.13 MAX 31 MIN 0 AC-FT 815

NOTE.--No gage-height record Dec. 27 to Mar. 30 (no flow during most of period).

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, Dinosaurs National Monument, on right bank 300 ft upstream from highway bridge, 1 mile downstream from Cub Creek and Chew Ranch, 4 miles southeast of Dinosaur National Monument headquarters, 6.5 miles northeast of Jensen, 12 miles upstream from Brush Creek, and 313.9 miles from mouth.

DRAINAGE AREA.--25,400 sq mi, 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 (from river-profile map). Prior to Oct. 1, 1946, nonrecording gages at site 15 miles downstream at different datums. Dec. 13, 1946, to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

AVERAGE DISCHARGE.--26 years (1903-4, 1946-71), 4,313 cfs (3,125,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 20,800 cfs June 1 (gage height, 9.89 ft); minimum, 942 cfs Feb. 27.

Period of record: Maximum discharge, 36,500 cfs June 16, 1957 (gage height, 13.22 ft); minimum observed, 102 cfs Dec. 6, 1904.

REMARKS.--Records good. 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 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1243: 1904(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,160	1,630	2,010	2,390	2,050	1,520	5,930	6,340	19,900	9,000	2,640	2,650
2	2,360	1,610	2,180	2,060	1,840	1,430	5,570	5,940	17,200	8,050	2,560	2,670
3	2,330	1,610	2,150	1,650	2,030	1,650	4,830	6,740	14,300	7,420	2,570	2,710
4	1,980	1,610	1,900	3,000	2,040	1,650	4,400	8,530	12,600	7,000	2,950	2,750
5	1,550	1,600	1,750	2,700	1,980	1,550	3,900	10,700	12,100	6,670	3,100	2,730
6	1,470	1,560	1,660	2,600	1,870	1,330	3,870	11,800	12,300	6,330	2,990	2,400
7	1,540	1,560	1,670	2,550	1,720	1,390	4,090	10,500	11,600	5,900	2,970	2,470
8	1,580	1,580	1,730	2,600	1,570	1,540	4,670	9,570	11,300	5,470	2,970	2,780
9	1,580	1,570	1,800	2,700	1,780	1,430	4,870	9,810	11,200	5,190	2,950	2,930
10	1,870	1,810	2,010	2,500	2,370	1,420	5,560	10,500	11,700	5,070	2,900	2,890
11	2,370	1,850	1,950	2,400	1,720	1,470	5,950	10,900	12,100	4,820	2,870	2,940
12	2,030	1,890	2,050	2,350	1,670	1,570	7,160	10,100	12,700	4,690	2,840	2,960
13	1,940	1,910	1,890	2,600	1,710	1,700	8,780	9,250	12,500	4,640	2,770	3,030
14	2,450	1,910	1,610	2,300	1,700	1,890	9,220	10,200	12,200	4,420	2,820	2,920
15	2,360	1,860	1,490	2,300	1,730	1,720	9,430	11,900	12,600	4,490	2,830	2,630
16	2,140	1,890	1,630	2,500	1,800	1,690	8,900	13,100	13,200	4,420	2,720	2,690
17	1,980	1,890	2,060	2,200	1,810	1,880	10,300	14,200	14,000	4,190	2,780	2,720
18	2,060	1,910	2,490	2,500	1,900	1,870	11,000	14,800	14,400	3,830	2,790	2,700
19	1,960	1,880	1,970	2,700	2,010	1,530	10,400	14,400	14,700	3,670	2,760	2,400
20	1,800	2,330	1,970	2,600	1,940	2,000	9,740	12,500	15,000	3,460	2,610	2,340
21	1,870	2,430	1,850	2,710	1,760	1,920	9,110	10,500	14,600	3,520	2,610	2,240
22	1,710	2,030	1,850	2,780	1,480	1,830	8,120	9,140	14,300	3,620	2,690	2,130
23	1,810	1,800	2,280	2,720	1,650	2,540	7,630	8,260	14,200	3,530	2,580	2,200
24	1,700	1,970	2,280	2,400	1,620	3,480	7,960	8,760	13,500	3,390	2,740	2,260
25	1,760	2,240	2,320	2,910	1,600	3,130	7,180	10,000	13,300	3,180	2,730	2,250
26	1,770	2,130	2,050	2,430	1,420	4,480	6,840	9,420	12,700	2,970	2,800	2,250
27	1,770	2,000	1,640	2,750	1,160	5,080	7,220	9,260	12,100	3,000	2,650	2,170
28	1,890	2,030	1,720	2,500	2,180	7,680	8,180	9,720	11,300	2,860	2,590	2,320
29	1,910	2,150	1,740	2,420	-----	7,410	7,000	11,400	11,100	3,050	2,570	2,270
30	1,730	2,100	2,620	2,130	-----	5,430	6,040	13,300	10,000	2,910	2,530	2,110
31	1,680	-----	2,230	2,200	-----	5,230	-----	16,000	-----	2,750	2,740	-----
TOTAL	60,110	56,340	60,550	77,150	50,110	80,440	213,850	327,540	394,700	143,510	85,620	76,510
MEAN	1,939	1,878	1,953	2,489	1,790	2,595	7,128	10,570	13,160	4,629	2,762	2,550
MAX	3,160	2,430	2,620	3,000	2,370	7,680	11,000	16,000	19,900	9,000	3,100	3,030
MIN	1,470	1,560	1,490	1,650	1,160	1,330	3,870	5,940	10,000	2,750	2,530	2,110
AC-FT	119,200	111,800	120,100	153,000	99,390	159,600	424,200	649,700	782,900	284,700	169,800	151,800
CAL YR 1970	TOTAL 1,591,220		MEAN 4,360		MAX 19,800		MIN 1,470		AC-FT 3,156,000			
WTR YR 1971	TOTAL 1,626,430		MEAN 4,456		MAX 19,900		MIN 1,160		AC-FT 3,226,000			

PEAK DISCHARGE (BASE, 7,500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-28	2000	6.38	8,270	6-1	1000	9.89	20,800
4-18	2000	7.51	11,700	6-20	1900	8.61	15,500
5-19	2400	8.47	15,000				

LOCATION.--Lat 40°34'54", long 109°26'03", in SE₄SE₄SW₄ sec.3, T.3 S., R.22 E., Uintah County, on left bank 3 miles upstream from Little Brush Creek and 10 miles northeast of Vernal.

DRAINAGE AREA.--82 sq mi, 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 (from topographic map). Prior to Apr. 25, 1959, water-stage recorder at site 0.4 mile downstream at different datum. Apr. 25, 1959 to Mar. 5, 1968, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--32 years, 35.1 cfs (25,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 266 cfs June 18 (gage height, 2.85 ft); minimum daily, 11 cfs Jan. 1-15, 21-25.
Period of record: Maximum discharge, 543 cfs July 12, 1962 (gage height, 4.73 ft, present datum), from rating curve extended above 370 cfs; minimum recorded, 1.6 cfs Mar. 12, 1951.

REMARKS.--Records good. Two small diversions above station for irrigation of about 80 acres lying both above and below station. Since July 1940, water from Oaks Park Reservoir on headwaters (capacity, 6,250 acre-ft) has been diverted above station to Ashley Creek basin for irrigation through Oaks Park Canal.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	14	12	11	12	14	14	20	204	63	28	26
2	19	14	12	11	13	14	14	22	201	55	27	26
3	19	14	12	11	13	14	14	30	206	45	27	28
4	19	13	12	11	12	14	14	45	208	40	38	31
5	19	12	12	11	12	14	14	46	210	38	43	31
6	20	13	12	11	12	14	14	38	209	36	32	26
7	21	13	12	11	13	14	15	35	207	34	28	26
8	20	13	12	11	13	14	15	35	207	33	25	27
9	20	12	12	11	14	14	15	36	207	31	24	25
10	21	12	12	11	14	14	16	34	208	29	24	25
11	20	13	12	11	14	14	17	35	214	26	24	24
12	20	13	12	11	14	14	17	47	237	26	24	24
13	20	13	12	11	14	13	17	72	249	25	23	24
14	18	12	12	11	14	13	18	114	256	33	23	24
15	15	12	12	11	14	13	19	146	257	36	23	24
16	16	12	12	12	14	13	20	164	260	37	23	24
17	17	12	12	12	14	13	23	145	258	44	24	24
18	17	12	12	13	14	13	22	108	259	36	24	25
19	17	12	12	12	14	14	21	91	260	37	24	25
20	17	12	12	12	14	13	20	79	255	39	24	25
21	17	12	12	11	15	13	19	78	246	37	24	24
22	18	12	12	11	15	13	19	111	231	32	24	24
23	17	12	12	11	15	13	19	114	217	31	24	24
24	16	12	12	11	15	13	19	104	193	31	24	24
25	14	12	12	11	14	13	21	110	166	29	24	24
26	14	13	12	12	14	14	18	130	139	28	24	24
27	14	13	12	12	14	14	18	165	117	27	24	24
28	14	12	12	12	14	14	18	189	91	27	25	24
29	14	12	12	12	-----	14	18	201	81	27	26	24
30	14	13	12	12	-----	14	18	207	75	27	26	23
31	14	-----	12	12	-----	14	-----	205	-----	28	26	-----
TOTAL	540	376	372	353	384	422	526	2,956	6,128	1,067	803	753
MEAN	17.4	12.5	12.0	11.4	13.7	13.6	17.5	95.4	204	34.4	25.9	25.1
MAX	21	14	12	13	15	14	23	207	260	63	43	31
MIN	14	12	12	11	12	13	14	20	75	25	23	23
AC-FT	1,070	746	738	700	762	837	1,040	5,860	12,150	2,120	1,590	1,490
CAL YR 1970	TOTAL	16,177	MEAN	44.3	MAX	273	MIN	12	AC-FT	32,090		
WTR YR 1971	TOTAL	14,680	MEAN	40.2	MAX	260	MIN	11	AC-FT	29,120		

GREEN RIVER BASIN

41

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 upstream from Cow Hollow, and 17 miles north-northwest of Vernal.

DRAINAGE AREA.--55.8 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 68.8 cfs (49,850 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 816 cfs May 27 (gage height, 5.97 ft); minimum daily, 4.3 cfs Apr. 1.
Period of record: Maximum discharge, about 7,400 cfs June 10, 1965 (gage height, 12.13 ft, from floodmarks), from rating curve extended above 420 cfs on basis of an estimate at peak flow based on a field survey; minimum recorded, about 0.80 cfs Apr. 22, 1968, result of freezeup.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	8.1	7.7	5.8	4.8	4.5	4.3	16	313	114	34	14
2	13	8.1	7.7	5.8	4.8	4.5	4.5	28	325	111	31	13
3	13	8.0	7.6	5.8	4.8	4.5	4.5	49	327	96	28	16
4	13	7.8	7.6	5.8	4.8	4.5	4.5	58	299	88	27	19
5	13	7.9	7.6	5.8	4.8	4.5	4.6	52	301	82	30	15
6	13	8.2	7.5	5.5	4.8	4.5	4.7	45	325	76	28	14
7	14	8.2	7.5	5.5	4.8	4.5	4.9	43	369	71	27	17
8	12	7.8	7.4	5.5	4.8	4.5	4.7	39	424	71	23	20
9	14	8.0	7.3	5.5	4.8	4.5	4.9	40	398	69	22	15
10	15	8.1	7.1	5.5	4.8	4.5	6.6	40	409	102	21	13
11	13	8.0	6.8	5.4	4.8	4.5	8.3	44	418	96	20	13
12	17	7.7	6.8	5.4	4.8	4.5	8.8	63	405	91	22	15
13	15	7.2	6.8	5.4	4.8	4.5	9.4	102	402	87	20	13
14	11	7.2	6.8	5.4	4.8	4.5	11	165	442	86	19	12
15	8.8	6.8	6.8	5.4	4.8	4.5	14	213	483	79	18	11
16	10	7.0	6.8	5.4	4.8	4.5	21	227	444	71	18	11
17	10	7.5	6.8	5.4	4.8	4.5	24	199	461	70	19	12
18	9.9	8.2	6.8	5.4	4.8	4.5	20	156	445	112	19	13
19	11	8.0	6.8	5.4	4.8	4.5	14	126	386	108	17	13
20	9.8	7.9	6.8	5.4	4.8	4.5	13	128	342	100	17	14
21	11	7.8	6.5	5.2	4.7	4.5	13	175	313	88	16	13
22	10	7.8	6.5	5.2	4.7	4.5	12	219	299	71	16	12
23	9.5	7.8	6.5	5.2	4.7	4.5	11	204	275	72	16	12
24	13	7.8	6.5	5.2	4.7	4.5	11	205	247	63	17	12
25	10	7.8	6.5	5.2	4.7	4.5	10	261	213	56	15	11
26	9.5	8.0	6.1	5.0	4.5	4.8	9.5	388	190	52	16	11
27	9.0	7.9	6.1	5.0	4.5	5.0	8.7	538	164	46	19	10
28	9.2	7.5	6.1	5.0	4.5	5.4	10	518	153	41	17	9.8
29	9.3	7.7	6.1	5.0	-----	5.0	9.0	417	147	31	21	10
30	9.3	7.5	6.1	5.0	-----	5.3	10	357	133	31	18	11
31	8.8	-----	6.1	5.0	-----	5.3	-----	348	-----	38	15	-----
TOTAL	358.1	233.3	212.1	166.5	133.0	143.3	295.9	5,463	9,852	2,369	646	394.8
MEAN	11.6	7.78	6.84	5.37	4.75	4.62	9.86	176	328	76.4	20.8	13.2
MAX	17	8.2	7.7	5.8	4.8	5.4	24	538	483	114	34	20
MIN	8.8	6.8	6.1	5.0	4.5	4.5	4.3	16	133	31	15	9.8
AC-FT	710	463	421	330	264	284	587	10,840	19,540	4,700	1,280	783

CAL YR 1970 TOTAL 25,224.3 MEAN 69.1 MAX 629 MIN 4.1 AC-FT 50,030
WTR YR 1971 TOTAL 20,267.0 MEAN 55.5 MAX 538 MIN 4.3 AC-FT 40,200

PEAK DISCHARGE (BASE, 600 CFS) May 27 (2100) 816 cfs (5.97 ft); June 14 (2300) 645 cfs (5.69 ft).

NOTE.--No gage-height record Dec. 13 to Mar. 25.

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 upstream from head of Utah Power & Light Co.'s canal, 4.5 miles upstream from Dry Fork, and 10 miles northwest of Vernal.

DRAINAGE AREA.--101 sq mi.

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 above mean sea level, adjustment of 1927. Prior to Nov. 13, 1917, non-recording and water-stage recorder at several sites within 1.5 miles of present site at various datums. Nov. 14, 1917 to July 15, 1965, water-stage recorder at site 75 ft downstream at various datums. July 15, 1965 to July 30, 1968, water-stage recorder at site 75 ft downstream at datum 0.09 ft higher.

AVERAGE DISCHARGE.--58 years (1913-71), 101 cfs (73,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,330 cfs May 27 (gage height, 3.70 ft), from rating curve extended above 600 cfs; minimum, 7.8 cfs Apr. 1, 2.

Period of record: Maximum discharge, about 3,500 cfs June 11, 1965, from rating table extended above 1,060 cfs; maximum gage height, 6.09 ft June 16, 1929; present datum; minimum discharge recorded, 7.8 cfs Apr. 1, 2, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	25	18	15	12	11	9.5	21	429	169	83	74
2	63	23	18	15	12	10	9.2	24	429	165	78	72
3	62	22	18	14	13	10	11	43	437	153	75	70
4	59	20	18	14	11	10	10	81	388	145	72	70
5	58	20	18	14	12	11	10	85	380	142	74	67
6	58	22	18	14	12	10	11	84	414	134	71	72
7	59	21	18	14	12	11	13	86	456	127	72	73
8	58	20	18	14	12	11	13	82	548	126	67	76
9	58	19	18	14	11	11	12	81	510	122	65	73
10	58	20	18	14	12	11	13	84	484	147	62	70
11	55	19	17	13	12	11	15	85	526	145	60	65
12	57	19	17	13	12	10	16	107	484	138	77	63
13	59	20	16	13	12	10	16	150	491	139	79	62
14	47	18	16	13	12	10	17	246	507	167	77	59
15	38	16	17	13	12	9.5	19	329	601	161	86	57
16	37	18	16	13	12	9.5	21	351	536	153	89	56
17	38	20	17	13	11	10	23	309	554	149	88	59
18	37	21	17	13	11	9.5	28	248	550	180	88	60
19	37	20	17	13	11	9.5	26	213	473	197	86	60
20	36	20	17	13	11	9.5	22	201	418	174	84	60
21	36	20	17	13	11	10	21	241	377	169	83	59
22	36	20	17	12	11	10	20	308	365	146	81	58
23	34	20	16	13	11	10	20	294	342	147	80	52
24	31	20	16	13	11	10	20	288	310	141	80	50
25	28	19	16	12	11	9.5	19	356	273	132	81	50
26	25	19	15	12	11	9.5	18	518	244	121	80	51
27	25	19	15	13	11	11	17	786	223	114	80	49
28	24	18	15	13	11	11	18	829	206	110	78	48
29	27	18	15	13	-----	9.5	18	600	198	98	79	47
30	27	18	15	12	-----	11	19	507	187	90	78	46
31	26	-----	15	12	-----	12	-----	487	-----	81	76	-----
TOTAL	1,355	594	519	410	323	318.0	504.7	8,124	12,340	4,382	2,409	1,828
MEAN	43.7	19.8	16.7	13.2	11.5	10.3	16.8	262	411	141	77.7	60.9
MAX	63	25	18	15	13	12	28	829	601	197	89	76
MIN	24	16	15	12	11	9.5	9.2	21	187	81	60	46
AC-FT	2,690	1,180	1,030	813	641	631	1,000	16,110	24,480	8,690	4,780	3,630

CAL YR 1970 TOTAL 38,369.0 MEAN 105 MAX 940 MIN 11 AC-FT 76,100
WTR YR 1971 TOTAL 33,106.7 MEAN 90.7 MAX 829 MIN 9.2 AC-FT 65,670

PEAK DISCHARGE (BASE, 600 CFS).--May 27 (2100) 1,330 cfs (3.70 ft); June 15 (0100) 802 cfs (3.19 ft).

GREEN RIVER BASIN

43

09267100 Ashley Creek above Dry Fork, near Vernal, Utah

LOCATION.--Lat 40°32'16", long 109°36'33", in NW¼SE¼SW¼ sec.19, T.3 S., R.21 E., Uintah County, on right bank 0.9 mile upstream from Dry Fork, and 4 miles southwest of town of Dry Fork.

DRAINAGE AREA.--110 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,910 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 905 cfs May 27 (gage height, 4.27 ft); minimum recorded, 11 cfs Mar. 19.
 Period of record: Maximum discharge, 920 cfs May 20, 1970 (gage height, 4.15 ft); maximum gage height, 4.38 ft May 19, 1970;
 minimum discharge, 11 cfs Apr. 1, 1970, Mar. 19, 1971.

REMARKS.--Records good. Flow slightly regulated by small reservoirs upstream. Flow increased by water released from Oaks Park Reservoir (capacity, 6,250 acre-ft) on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline (capacity, approximately 11 cfs) diverts water from tributary spring about 6 miles upstream. Small diversions for irrigation of about 200 acres lying mostly above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	26	19	15	15	13	14	17	480	159	75	84
2	61	25	19	15	15	13	13	19	472	153	75	79
3	60	23	19	15	15	13	13	27	480	143	71	79
4	56	22	19	14	14	13	13	58	451	132	70	78
5	55	22	19	14	14	13	13	63	439	123	72	73
6	55	23	19	13	14	13	14	67	461	119	70	78
7	57	23	19	14	14	13	14	70	476	106	70	80
8	54	22	19	14	14	13	15	67	517	105	65	85
9	54	22	19	14	14	13	14	68	502	100	62	80
10	53	21	19	14	14	13	14	68	474	127	59	73
11	51	21	19	14	14	13	16	70	521	130	57	63
12	51	21	18	14	14	13	17	96	491	123	73	59
13	53	21	18	14	14	13	17	132	485	122	75	58
14	44	20	17	15	14	13	17	275	499	159	73	56
15	35	19	17	15	14	13	19	378	584	160	80	54
16	33	20	17	15	14	13	20	410	502	151	87	53
17	35	21	18	15	14	13	20	351	512	148	86	54
18	33	22	18	15	14	13	21	267	502	180	92	56
19	33	22	17	15	14	12	21	224	444	213	90	55
20	33	21	18	15	14	13	19	209	399	184	88	56
21	34	21	17	15	14	13	19	264	368	178	87	55
22	34	21	17	15	14	13	19	358	354	155	85	54
23	33	21	17	15	14	13	19	337	327	152	85	50
24	31	21	17	14	14	13	19	331	301	148	84	47
25	29	20	16	14	14	13	18	428	267	137	85	45
26	26	20	16	14	14	13	17	543	241	124	85	45
27	27	20	16	14	13	13	16	681	216	113	84	44
28	25	20	16	14	13	14	16	702	200	109	81	44
29	27	20	16	14	-----	13	16	604	191	97	89	43
30	27	20	16	14	-----	13	16	549	183	91	92	42
31	27	-----	16	15	-----	14	-----	519	-----	77	88	-----
TOTAL	1,285	641	547	447	393	404	499	8,252	12,339	4,218	2,435	1,822
MEAN	41.5	21.4	17.6	14.4	14.0	13.0	16.6	266	411	136	78.5	60.7
MAX	61	26	19	15	15	14	21	702	584	213	92	85
MIN	25	19	16	13	13	12	13	17	183	77	57	42
AC-FT	2,550	1,270	1,080	887	780	801	990	16,370	24,470	8,370	4,830	3,610

CAL YR 1970 TOTAL 34,994 MEAN 95.9 MAX 720 MIN 12 AC-FT 69,410
 WTR YR 1971 TOTAL 33,282 MEAN 91.2 MAX 702 MIN 12 AC-FT 66,010

PEAK DISCHARGE (BASE, 700 CFS).--May 27 (2200) 905 cfs (4.27 ft); June 15 (0100) 710 cfs (3.85 ft).

GREEN RIVER BASIN

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 southeast of Paradise Park Reservoir, 8 miles downstream from diversion from Dry Fork, and 16 miles 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 (from topographic map).

EXTREMES.--Period of record: Maximum daily discharge, 37 cfs June 16, 17, 1969; no flow for extended periods each year.

REMARKS.--Records good except those for November and May, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	2.5	1.2				0	1.0	8.9	18	16	15
2	3.8	2.3	1.2				0	1.6	7.8	17	16	14
3	6.6	2.2	1.2				0	2.2	8.2	15	16	17
4	6.6	1.7	1.2				0	2.5	9.6	22	18	19
5	6.5	1.5	1.2				0	2.5	11	22	18	15
6	6.8	1.4	1.2				0	2.3	13	21	16	14
7	7.3	1.4	1.1				0	2.0	15	20	15	18
8	5.8	1.5	1.1				0	1.9	19	21	14	19
9	7.1	1.6	1.0				0	1.9	19	20	13	15
10	6.8	1.6	1.0				0	1.8	18	19	13	14
11	6.9	1.6	.90				.20	2.0	18	19	13	14
12	6.3	1.6	.80				.30	2.2	16	19	14	14
13	.01	1.5	.60				.50	2.3	19	19	13	14
14	0	1.4	.40				.70	2.4	19	19	13	13
15	.03	1.4	.20				.90	2.5	20	19	12	13
16	5.9	1.4	.10				1.0	2.5	19	19	12	12
17	7.8	1.3	0				1.0	2.3	19	19	13	13
18	7.9	1.3	0				1.1	2.0	18	21	13	14
19	5.9	1.2	0				1.1	1.9	16	23	12	14
20	4.3	1.2	0				.90	1.9	18	22	12	14
21	4.4	1.3	0				.80	1.9	15	22	12	14
22	3.1	1.3	0				.60	2.1	19	20	12	14
23	4.2	1.4	0				.40	2.5	23	19	14	13
24	2.9	1.4	0				.20	3.0	22	19	19	12
25	2.8	1.5	0				.20	5.0	20	21	14	12
26	2.8	1.5	0				.20	8.0	19	20	14	12
27	2.5	1.4	0				.30	12	18	19	15	11
28	2.3	1.4	0				.50	12	18	19	14	11
29	2.4	1.3	0		-----		.60	10	20	18	20	11
30	2.6	1.3	0		-----		.80	9.6	19	18	19	12
31	2.7	-----	0		-----		-----	10	-----	17	18	-----
TOTAL	135.18	45.4	14.40	0	0	0	12.30	117.8	504.5	606	453	417
MEAN	4.36	1.51	.46	0	0	0	.41	3.80	16.8	19.5	14.6	13.9
MAX	7.9	2.5	1.2	0	0	0	1.1	12	23	23	20	19
MIN	0	1.2	0	0	0	0	0	1.0	7.8	15	12	11
AC-FT	268	90	29	0	0	0	24	234	1,000	1,200	899	827

CAL YR 1970 TOTAL 2,257.18 MEAN 6.18 MAX 28 MIN 0 AC-FT 4,480
 WTR YR 1971 TOTAL 2,305.58 MEAN 6.32 MAX 23 MIN 0 AC-FT 4,570

NOTE.--No gage-height record Oct. 25 to May 25 (no flow during most of winter period).

GREEN RIVER BASIN

45

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 northwest of town of Dry Fork.

DRAINAGE AREA.--44.4 sq mi.

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

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

AVERAGE DISCHARGE.--32 years, 36.2 cfs (26,230 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 607 cfs June 17 (gage height, 4.19 ft); minimum recorded, 3.6 cfs Sept. 27.

Period of record: Maximum discharge, 1,010 cfs June 10, 1965 (gage height 4.78 ft), from rating curve extended above 490 cfs; 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	7.4	7.7	6.6	5.6	5.0	4.7	13	146	75	10	8.1
2	11	7.1	9.5	6.5	5.4	5.0	4.7	18	139	66	9.8	6.9
3	9.8	7.0	8.1	6.2	5.4	5.0	4.8	26	139	59	9.5	8.1
4	9.5	6.7	8.8	6.0	5.3	5.0	4.8	30	129	39	11	11
5	9.5	6.6	9.1	5.8	5.2	5.0	4.9	27	126	34	13	8.1
6	9.5	6.9	8.8	5.7	5.2	5.0	5.0	25	137	32	11	6.9
7	11	7.1	8.6	5.6	5.2	5.0	5.0	27	170	30	11	7.7
8	9.8	7.1	8.7	5.5	5.2	5.0	5.2	25	239	30	9.5	12
9	12	7.4	8.7	5.6	5.2	5.0	5.4	23	274	29	9.1	8.4
10	12	7.4	8.7	5.7	5.2	5.0	5.7	23	270	27	8.4	6.9
11	9.5	7.2	8.5	5.8	5.0	5.0	6.0	22	292	25	7.7	6.1
12	11	7.0	8.3	5.8	5.0	5.0	7.0	23	260	23	8.1	5.8
13	15	6.6	8.1	5.8	5.0	5.0	8.0	27	270	18	7.7	5.3
14	15	6.6	8.0	5.8	5.0	5.0	9.0	36	322	18	6.9	5.0
15	11	6.6	8.0	5.8	5.0	5.0	12	53	376	18	6.6	4.6
16	9.8	6.7	8.0	5.7	5.0	5.0	13	81	389	16	6.3	4.6
17	8.4	6.8	8.0	5.7	5.0	5.0	15	89	407	16	6.3	4.8
18	8.1	6.9	7.8	5.7	5.0	5.0	12	67	412	25	6.3	5.5
19	8.1	7.0	7.7	5.7	5.0	5.0	9.8	52	343	41	6.3	5.5
20	7.4	7.2	7.4	5.7	5.0	5.0	9.1	43	295	35	6.1	5.5
21	8.1	7.8	7.2	5.7	5.0	5.0	8.4	42	256	35	6.1	5.5
22	8.4	8.5	7.0	5.7	5.0	5.0	8.1	51	239	32	6.3	5.5
23	7.4	9.5	6.8	5.7	4.9	5.0	8.1	53	214	25	6.1	5.0
24	10	9.1	6.8	5.7	4.8	5.0	7.7	58	188	27	16	4.6
25	8.4	9.1	6.7	5.7	4.8	5.0	7.1	91	165	19	8.4	4.4
26	7.5	8.8	6.7	5.7	4.7	5.0	6.6	131	146	16	7.4	4.2
27	7.3	8.8	6.7	5.7	4.6	5.0	6.6	185	131	14	7.1	4.2
28	7.2	8.8	6.7	5.7	4.7	5.0	6.9	223	116	13	7.7	4.0
29	7.0	8.1	6.8	5.7	-----	5.0	6.9	208	101	12	10	3.8
30	7.2	8.4	6.9	5.7	-----	5.0	8.4	188	87	11	13	4.4
31	7.2	-----	6.9	5.7	-----	5.0	-----	165	-----	11	11	-----
TOTAL	301.1	226.2	241.7	179.4	141.4	155.0	225.9	2,125	6,778	871	269.7	182.4
MEAN	9.71	7.54	7.80	5.79	5.05	5.00	7.53	68.5	226	28.1	8.70	6.08
MAX	18	9.5	9.5	6.6	5.6	5.0	15	223	412	75	16	12
MIN	7.0	6.6	6.7	5.5	4.6	5.0	4.7	13	87	11	6.1	3.8
AC-FT	597	449	479	356	280	307	448	4,210	13,440	1,730	535	362

CAL YR 1970 TOTAL 11,942.6 MEAN 32.7 MAX 265 MIN 5.5 AC-FT 23,690
WTR YR 1971 TOTAL 11,696.8 MEAN 32.0 MAX 412 MIN 3.8 AC-FT 23,200

PEAK DISCHARGE (BASE, 300 CFS).--June 17 (2400) 607 cfs (4.19 ft).

NOTES.--No gage-height record Dec. 9 to Apr. 14.

GREEN RIVER BASIN

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 upstream from mouth and 9.5 miles northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 sq mi.

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

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

AVERAGE DISCHARGE.--25 years, 6.67 cfs (4,830 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 69 cfs June 17 (gage height, 2.86 ft); minimum daily, 0.60 cfs Apr. 2.

Period of record: Maximum discharge, 169 cfs June 5, 1968 (gage height 3.34 ft); maximum gage height, 3.60 ft 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.--WRD Utah 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	2.4	1.2	1.0	.80	.70	.70	2.8	35	23	8.7	4.4
2	4.7	2.4	1.2	1.0	.80	.70	.60	4.2	34	22	8.3	4.3
3	4.7	2.3	1.2	1.0	.80	.70	.70	7.4	33	21	8.2	4.7
4	4.5	2.2	1.2	1.0	.80	.70	.80	8.2	32	21	8.7	4.6
5	4.5	2.4	1.2	1.0	.80	.70	.80	6.3	31	20	8.7	4.4
6	4.5	2.2	1.2	.90	.80	.70	.80	5.7	32	19	8.1	4.2
7	4.4	2.2	1.2	.90	.80	.70	.90	5.9	35	18	7.8	4.8
8	4.4	2.1	1.2	.90	.80	.70	1.0	5.4	42	18	7.3	4.6
9	4.3	2.1	1.2	.90	.80	.70	1.0	5.4	41	17	7.0	4.4
10	4.0	2.1	1.2	.90	.80	.70	1.1	5.9	40	16	6.7	4.2
11	3.9	2.0	1.2	.90	.80	.70	1.2	7.0	40	15	6.5	4.2
12	3.9	1.9	1.2	.90	.80	.70	1.3	9.3	40	14	6.4	4.0
13	3.8	1.9	1.2	.90	.80	.70	1.4	12	42	14	6.2	4.0
14	3.5	1.9	1.2	.90	.80	.70	1.7	17	45	13	6.1	4.0
15	3.5	1.8	1.2	.90	.80	.70	2.0	22	50	12	5.9	4.0
16	3.5	1.9	1.2	.90	.80	.70	2.5	24	53	12	5.8	4.0
17	3.4	1.7	1.2	.90	.80	.70	3.0	21	57	11	5.7	4.3
18	3.3	1.7	1.2	.90	.80	.70	2.6	17	55	12	5.6	4.3
19	3.2	1.7	1.2	.90	.80	.70	2.3	15	49	11	5.3	4.3
20	3.1	1.7	1.2	.90	.80	.70	2.3	14	44	12	5.2	4.3
21	3.1	1.7	1.1	.90	.80	.70	2.2	16	41	16	5.2	4.2
22	3.0	1.6	1.1	.90	.80	.70	2.0	19	40	13	5.0	4.2
23	3.0	1.6	1.1	.90	.80	.70	2.0	18	37	12	5.2	4.1
24	3.1	1.5	1.1	.90	.80	.70	1.9	20	36	11	4.9	4.0
25	3.0	1.5	1.1	.90	.80	.70	1.8	26	34	10	4.7	3.9
26	2.9	1.4	1.1	.90	.80	.70	1.8	33	32	9.9	4.8	3.9
27	2.7	1.3	1.1	.90	.80	.70	1.9	44	30	9.8	4.8	3.8
28	2.6	1.3	1.1	.90	.80	.70	1.9	46	28	9.5	4.7	3.7
29	2.6	1.2	1.1	.90	-----	.70	1.9	41	26	9.4	4.9	3.7
30	2.6	1.2	1.1	.90	-----	.70	2.0	37	25	9.2	4.6	3.9
31	2.5	-----	1.1	.90	-----	.70	-----	35	-----	9.0	4.5	-----
TOTAL	111.1	54.9	36.1	28.40	22.40	21.70	48.10	550.5	1,159	439.8	191.5	125.4
MEAN	3.58	1.83	1.16	.92	.80	.70	1.60	17.8	38.6	14.2	6.18	4.18
MAX	4.9	2.4	1.2	1.0	.80	.70	3.0	46	57	23	8.7	4.8
MIN	2.5	1.2	1.1	.90	.80	.70	.60	2.8	25	9.0	4.5	3.7
AC-FT	220	109	72	56	44	43	95	1,090	2,300	872	380	249

CAL YR 1970 TOTAL 2,485.92 MEAN 6.81 MAX 44 MIN .60 AC-FT 4,930

WTR YR 1971 TOTAL 2,788.90 MEAN 7.64 MAX 57 MIN .60 AC-FT 5,530

PEAK DISCHARGE (BASE, 50 CFS).--May 27 (2100) 62 cfs (2.80 ft); June 17 (2200) 69 cfs (2.86 ft).

NOTE.--No gage-height record Dec. 13 to Apr. 12.

GREEN RIVER BASIN

47

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 upstream from mouth and 8.5 miles northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 sq mi.

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 8,300 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 13.7 cfs (9,930 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 156 cfs June 7 (gage height, 1.72 ft); minimum daily, 1.1 cfs Apr. 2.

Period of record: Maximum discharge, 395 cfs June 10, 1965 (gage height, 2.12 ft), from rating curve extended above 160 cfs; 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	3.5	2.3	1.6	1.4	1.2	1.2	3.8	46	37	14	6.9
2	6.0	3.3	2.3	1.6	1.4	1.2	1.1	5.8	51	34	13	6.6
3	5.7	3.3	2.3	1.5	1.4	1.2	1.2	9.6	54	30	13	7.7
4	5.7	3.2	2.4	1.5	1.4	1.2	1.2	14	51	27	14	7.2
5	5.7	3.1	2.4	1.5	1.4	1.2	1.2	13	58	26	13	6.6
6	6.0	3.1	2.3	1.4	1.3	1.2	1.2	11	72	24	13	6.4
7	5.7	3.1	2.3	1.4	1.3	1.2	1.2	10	96	23	12	7.5
8	6.0	3.1	2.3	1.4	1.3	1.2	1.3	8.5	110	22	11	7.2
9	5.7	3.0	2.3	1.3	1.3	1.2	1.4	7.3	94	21	11	6.4
10	5.5	3.0	2.3	1.3	1.3	1.2	1.5	6.6	84	20	11	6.1
11	5.7	3.0	2.3	1.4	1.3	1.2	1.6	6.8	82	19	10	6.0
12	5.7	2.9	2.3	1.4	1.3	1.2	1.7	8.4	76	18	10	6.1
13	5.5	2.9	2.2	1.4	1.3	1.2	2.0	11	79	17	10	5.6
14	4.8	2.8	2.2	1.4	1.3	1.2	2.3	19	82	17	10	5.4
15	4.6	2.7	2.1	1.4	1.3	1.2	3.2	27	88	16	10	5.3
16	4.6	2.6	2.1	1.4	1.3	1.2	3.9	32	88	16	9.7	5.3
17	4.6	2.5	2.1	1.4	1.3	1.2	4.1	26	94	15	9.9	5.6
18	4.6	2.4	2.1	1.4	1.3	1.2	3.7	20	92	19	9.6	5.5
19	4.4	2.4	2.0	1.4	1.3	1.2	3.6	17	86	18	9.1	5.5
20	4.2	2.4	2.0	1.4	1.3	1.2	3.5	15	80	17	9.0	5.4
21	4.2	2.4	2.0	1.4	1.3	1.2	3.5	17	78	24	8.9	5.3
22	4.2	2.5	1.9	1.4	1.3	1.2	3.2	21	75	19	8.7	5.2
23	4.2	2.5	1.8	1.4	1.3	1.2	2.7	24	70	19	9.9	4.8
24	4.2	2.5	1.8	1.4	1.3	1.2	2.6	27	65	17	8.6	4.7
25	4.1	2.5	1.8	1.4	1.3	1.2	2.5	35	61	16	8.1	4.6
26	4.0	2.5	1.8	1.4	1.2	1.2	2.6	57	57	16	8.1	4.6
27	4.0	2.4	1.8	1.4	1.2	1.2	2.7	104	53	16	8.0	4.4
28	3.9	2.4	1.8	1.4	1.2	1.2	2.8	113	49	15	7.7	4.4
29	3.8	2.3	1.7	1.4	-----	1.2	3.0	86	45	15	8.5	4.4
30	3.6	2.3	1.7	1.4	-----	1.2	3.3	64	41	14	7.4	4.8
31	3.5	-----	1.7	1.4	-----	1.2	-----	51	-----	14	6.9	-----
TOTAL	150.4	82.6	64.4	43.9	36.6	37.2	71.0	870.8	2,157	621	313.1	171.5
MEAN	4.85	2.75	2.08	1.42	1.31	1.20	2.37	28.1	71.9	20.0	10.1	5.72
MAX	6.0	3.5	2.4	1.6	1.4	1.2	4.1	113	110	37	14	7.7
MIN	3.5	2.3	1.7	1.3	1.2	1.2	1.1	3.8	41	14	6.9	4.4
AC-FT	298	164	128	87	73	74	141	1,730	4,280	1,230	621	340

CAL YR 1970 TOTAL 4,935.2 MEAN 13.5 MAX 126 MIN 1.6 AC-FT 9,790
WTR YR 1971 TOTAL 4,619.5 MEAN 12.7 MAX 113 MIN 1.1 AC-FT 9,160

PEAK DISCHARGE (BASE, 100 CFS)

NOTE.--No gage-height record Jan. 1 to Apr. 15.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-27	2100	1.68	149	6-17	2100	1.53	113
6-7	2000	1.72	156				

GREEN RIVER BASIN

09270500 Dry Fork at mouth, near Dry Fork, Utah

LOCATION.--Lat 40°31'35", long 109°36'18", in SE¼NE¼SW¼ sec.30, T.3 S., R.21 E., Uintah County, on left bank 900 ft upstream from mouth and 4 miles southeast of town of Dry Fork.

DRAINAGE AREA.--116 sq mi.

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

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

AVERAGE DISCHARGE.--17 years, 25.8 cfs (18,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 545 cfs June 18 (gage height, 3.67 ft); minimum, 0.50 cfs May 4.

Period of record: Maximum discharge, 1,210 cfs Aug. 25, 1955, from rating curve extended above 450 cfs on basis of comparison with Ashley Creek at Sign of the Maine; maximum gage height, 6.00 ft June 12, 1965; no flow for several periods in 1956-61, 1963, 1966.

REMARKS.--Records good except those for winter periods, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.0	3.6	4.1	4.5	2.7	1.8	1.3	132	86	4.5	1.4
2	3.2	4.0	3.6	4.1	4.2	2.8	1.6	1.1	128	81	2.8	1.4
3	3.2	4.0	3.2	4.1	3.8	2.8	1.4	.86	126	79	3.4	1.6
4	3.2	3.2	3.6	4.0	3.5	2.9	1.4	.67	121	77	3.7	1.3
5	3.2	4.4	3.6	3.8	3.2	3.0	1.4	.70	118	77	3.4	1.3
6	4.0	3.6	3.2	3.6	3.0	3.0	1.4	.81	116	76	4.6	1.1
7	5.9	4.8	4.0	3.6	3.0	2.9	1.4	1.4	114	73	4.1	1.5
8	5.3	4.8	4.4	3.7	3.0	2.8	1.6	1.1	181	66	3.7	1.6
9	5.3	4.0	4.8	3.7	3.0	2.8	1.4	2.3	263	52	4.1	1.5
10	5.3	4.0	4.8	3.8	3.0	2.7	.90	2.0	247	49	4.0	1.8
11	4.4	4.0	4.8	3.8	3.2	3.0	.90	1.3	280	46	3.8	1.8
12	3.6	3.6	4.4	3.8	3.2	3.1	1.0	1.1	241	46	3.1	1.9
13	2.0	3.6	4.4	3.8	3.0	3.2	.90	.96	255	39	2.1	1.9
14	3.6	3.6	4.5	3.8	2.9	3.2	.80	.86	296	33	1.8	2.1
15	4.8	3.2	4.5	3.8	3.0	3.1	.80	.85	397	23	2.2	2.0
16	4.8	2.3	4.5	3.8	3.1	3.0	.70	.90	413	18	2.1	2.1
17	3.2	2.3	4.3	4.0	3.2	2.9	.70	7.1	446	17	2.2	2.4
18	4.8	2.3	4.0	4.2	3.3	2.9	1.1	22	468	17	2.1	2.9
19	4.8	2.6	3.7	4.0	2.9	2.9	1.6	25	429	18	1.8	3.0
20	4.0	2.6	3.6	3.9	2.9	3.0	1.8	33	361	19	1.7	2.9
21	5.3	2.6	3.8	3.8	3.1	3.6	.80	36	293	23	1.6	3.1
22	7.1	2.6	4.0	3.8	3.0	4.4	4.4	33	266	25	1.5	3.2
23	7.1	3.2	4.0	3.8	2.9	4.4	2.3	33	242	26	1.5	2.5
24	4.8	3.2	4.0	3.8	2.8	4.4	2.9	36	213	26	1.5	2.8
25	5.9	3.6	4.0	3.8	2.7	3.6	2.3	35	155	25	1.5	3.0
26	4.8	4.0	4.0	4.0	2.7	3.3	2.0	41	124	24	1.5	2.8
27	4.4	4.0	4.0	4.2	2.7	3.6	1.6	49	100	20	1.4	2.9
28	4.0	3.2	4.0	4.3	2.7	2.6	1.4	103	96	11	1.3	3.1
29	4.4	3.2	4.0	4.4	-----	2.1	1.3	147	93	6.2	1.4	3.2
30	4.4	4.4	4.1	4.5	-----	2.1	1.2	148	92	5.9	1.4	3.4
31	4.0	-----	4.1	4.5	-----	1.8	-----	138	-----	6.3	1.6	-----
TOTAL	137.4	104.9	125.5	122.3	87.5	94.6	44.80	904.31	6,806	1,190.4	77.4	67.5
MEAN	4.43	3.50	4.05	3.95	3.13	3.05	1.49	29.2	227	38.4	2.50	2.25
MAX	7.1	4.8	4.8	4.5	4.5	4.4	4.4	148	468	86	4.6	3.4
MIN	2.0	2.3	3.2	3.6	2.7	1.8	.70	.67	92	5.9	1.3	1.1
AC-FT	273	208	249	243	174	188	89	1,790	13,500	2,360	154	134

CAL YR 1970 TOTAL 7,349.58 MEAN 20.1 MAX 290 MIN .15 AC-FT 14,580
WTR YR 1971 TOTAL 9,762.61 MEAN 26.7 MAX 468 MIN .67 AC-FT 19,360

PEAK DISCHARGE (BASE, 250 CFS).--June 18 (0400) 545 cfs (3.67 ft).

GREEN RIVER BASIN

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09271070 Highline Canal below Mantle Gulch, near Jensen, Utah

LOCATION.--Lat 40°22'01", long 109°30'10", in NE¼NW¼SE¼ sec.24, T.5 S., R.21 E., Uintah County, on left bank 50 ft downstream from a left bank diversion and 9 miles west of Jensen.

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

GAGE.--Water-stage recorder and sack concrete control. Altitude of gage is 5,400 ft (from topographic map).

EXTREMES.--Period of record: Maximum daily discharge, 27 cfs Aug. 1, 1969; no flow at times.

REMARKS.--Records good. Canal diverts from right bank of Ashley Creek in NW¼SW¼ sec.32, T.3 S., R.21 E., for irrigation in Ashley Valley. Many small diversions for irrigation of land lying both above and below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	4.7					0	0	18	.26	3.1	0
2	.02	.71					0	0	17	3.8	4.9	0
3	.02	0					0	0	16	6.3	4.1	0
4	.01	0					0	2.8	16	8.9	4.3	0
5	.02	0					0	3.8	13	8.9	7.4	0
6	.02	0					0	.86	12	7.1	7.7	0
7	0	0					0	0	9.8	5.6	4.7	.31
8	0	0					0	0	11	4.5	2.7	1.5
9	0	0					0	.01	20	6.1	1.3	2.3
10	.02	0					0	0	20	4.7	1.3	4.1
11	0	0					0	0	15	6.6	.20	1.8
12	.02	0					0	3.9	14	5.8	.63	1.7
13	0	0					0	8.3	17	2.2	1.1	1.5
14	0	0					0	7.7	16	3.9	.23	2.2
15	0	0					.08	7.1	5.1	11	.63	1.7
16	0	0					.28	6.6	15	14	.17	1.4
17	0	0					.11	5.2	9.5	15	.20	.49
18	0	0					0	6.6	4.5	21	0	1.5
19	0	0					.09	7.8	12	25	.06	3.4
20	0	0					.16	7.4	9.5	17	0	4.3
21	0	0					.01	9.5	15	14	0	5.3
22	.02	0					0	7.7	13	10	0	4.7
23	2.2	0					0	6.6	18	7.7	0	4.7
24	4.1	0					0	6.1	16	8.0	0	3.6
25	3.1	0					0	8.1	16	7.1	0	3.4
26	2.4	0					0	12	1.0	5.8	0	3.4
27	3.4	0					0	10	.23	5.2	0	3.8
28	3.4	0					0	10	1.5	6.8	0	3.4
29	3.3	0					0	10	0	3.8	0	2.2
30	3.8	0					0	7.7	0	.08	0	1.8
31	4.7	-----					-----	9.8	-----	2.4	0	-----
TOTAL	30.57	5.41	0	0	0	0	.73	167.57	351.13	248.54	44.72	64.50
MEAN	.99	.18	0	0	0	0	.024	5.41	11.7	8.02	1.44	2.15
MAX	4.7	4.7	0	0	0	0	.28	12	20	25	7.7	5.3
MIN	0	0	0	0	0	0	0	0	0	.08	0	0
AC-FT	61	11	0	0	0	0	1.5	332	696	493	89	128
CAL YR 1970	TOTAL 939.27		MEAN 2.57	MAX 24	MIN 0	AC-FT 1,860						
WTR YR 1971	TOTAL 913.17		MEAN 2.50	MAX 25	MIN 0	AC-FT 1,810						

GREEN RIVER BASIN

09271470 River Irrigation Company Canal near Jensen, Utah

LOCATION.--Lat 40°22'43", long 109°24'04", in NW¼SW¼SW¼ sec.13, T.5 S., R.22 E., Uintah County, on right bank 0.5 mile upstream from U.S. Highway 40, and 3 miles west of Jensen.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,850 ft (from topographic map).

EXTREMES.--Period of record: Maximum daily discharge, 11 cfs July 9, 14, 1970 May 13, 1971; no flow for extended periods during winter months.

REMARKS.--Records good. Canal diverts from left bank of Ashley Creek in NW¼SE¼ sec.10, T.5 S., R.22 E., for irrigation in lower Ashley Valley. Many small diversions for irrigation of land lying mostly above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.94	.33					0	2.1	2.3	4.7	1.4
2	.52	.82	.33					0	3.5	2.8	4.7	1.5
3	.52	.82	.33					0	5.7	2.7	5.0	2.1
4	.52	.82	.30					0	5.1	2.5	6.0	2.0
5	.52	.82	.28					0	5.1	3.9	8.6	2.6
6	1.0	.82	.25					0	5.1	4.6	8.1	2.8
7	.88	.82	.23					0	5.3	3.7	8.3	2.8
8	1.4	.76	0					.01	5.1	4.3	5.7	3.3
9	1.5	.76	0					4.3	4.7	4.3	4.6	3.0
10	1.5	.70	0					7.5	5.0	3.8	5.7	3.2
11	1.8	.58	0					7.5	4.3	3.8	5.6	3.2
12	2.2	.47	0					9.0	4.3	4.0	4.1	3.0
13	.42	.42	0					11	4.0	3.9	6.0	2.9
14	.12	.37	0					10	5.0	3.8	7.7	2.6
15	.02	.37	0					5.9	4.1	3.5	7.4	2.7
16	.03	.36	0					6.4	4.0	3.3	7.4	1.8
17	.03	.36	0					6.9	3.9	3.5	5.9	.52
18	.04	.35	0					6.5	3.4	4.0	6.4	.42
19	.04	.34	0					6.5	3.0	4.5	6.5	.42
20	.04	.34	0					6.5	1.2	7.5	5.1	.42
21	.66	.33	0					3.0	2.2	7.7	6.2	.29
22	1.2	.33	0					.52	4.7	7.7	6.4	.45
23	1.5	.29	0					.76	3.3	7.7	7.4	1.2
24	1.5	.29	0					.97	3.2	7.4	7.7	1.2
25	1.5	.29	0					.94	2.5	6.7	6.7	1.2
26	1.6	.33	0					1.2	1.7	2.9	5.0	1.0
27	1.3	.29	0					1.5	.14	2.5	5.1	1.2
28	.40	.25	0					1.3	1.3	2.5	5.6	1.2
29	.94	.25	0		-----			1.5	2.4	2.6	6.0	.94
30	.94	.29	0		-----			1.9	1.4	2.3	3.1	.94
31	.94	-----	0		-----		-----	1.3	-----	2.9	1.3	-----
TOTAL	26.10	14.98	2.05	0	0	0	0	102.90	106.74	129.6	184.0	52.30
MEAN	.84	.50	.066	0	0	0	0	3.32	3.56	4.18	5.94	1.74
MAX	2.2	.94	.33	0	0	0	0	11	5.7	7.7	8.6	3.3
MIN	.02	.25	0	0	0	0	0	0	.14	2.3	1.3	.29
AC-FT	52	30	4.1	0	0	0	0	204	212	257	365	104
CAL YR 1970	TOTAL 689.54	MEAN 1.89	MAX 11	MIN 0	AC-FT 1,370							
WTR YR 1971	TOTAL 618.67	MEAN 1.70	MAX 11	MIN 0	AC-FT 1,230							

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LOCATION.--Lat 40°22'29", long 109°24'27", in NE1/4NE1/4 sec.23, T.5 S., R.22 E., Uintah County, on right bank just downstream from bridge on U.S. Highway 40, 3 miles upstream from mouth and 3 miles west of Jensen.

GAGE.--Water-stage recorder. Datum of gage is 4,795.36 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 828 cfs June 18 (gage height, 4.11 ft); minimum daily, 12 cfs Aug. 18-21.
Period of record: Maximum discharge, 2,790 cfs June 6, 1968 (gage height, 7.04 ft); maximum gage height, 7.16 ft June 11, 1965;
no flow part of Aug. 9, 1956, and several days in August and September 1960.

REMARKS.--Records good except those for January, which are fair. Flow increased since July 1940 by water released from Oaks Park Reservoir (capacity, 6,250 acre-ft) 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). 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.

REVISIONS (WATER YEARS).--WSP 1243: 1950 (M).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	43	43	38	45	31	24	25	73	31	14	28
2	33	42	41	38	45	30	24	23	66	32	14	28
3	33	39	40	37	44	29	25	23	70	32	16	30
4	37	39	38	36	39	29	25	23	65	30	17	34
5	36	40	41	34	38	30	24	35	64	29	17	33
6	41	39	38	32	37	29	24	32	68	26	17	29
7	56	40	37	31	36	30	24	31	67	32	14	29
8	54	42	37	32	35	29	20	32	58	32	16	31
9	48	39	39	33	35	30	16	46	66	34	16	29
10	52	39	47	34	35	33	16	43	58	32	14	28
11	54	41	44	35	39	34	16	36	74	34	14	29
12	56	42	41	36	50	34	17	32	63	42	13	30
13	59	43	42	36	46	36	16	31	95	39	14	28
14	57	41	44	36	46	32	17	34	269	34	18	28
15	53	40	46	37	47	30	17	33	544	33	14	27
16	50	40	46	39	43	30	16	29	508	29	14	29
17	50	39	40	40	41	31	14	33	550	28	13	29
18	50	40	41	40	40	28	15	32	628	20	12	30
19	50	40	40	39	41	28	20	31	511	26	12	31
20	49	38	37	38	38	30	30	35	405	29	12	31
21	47	36	36	37	37	31	27	41	263	25	12	32
22	50	37	39	37	41	32	29	36	218	26	15	32
23	66	37	40	38	39	33	24	28	114	28	16	31
24	53	38	38	39	35	33	36	28	79	22	15	29
25	48	39	38	40	33	32	32	27	49	21	15	27
26	46	43	39	42	33	31	29	29	34	24	20	24
27	49	46	40	44	34	33	28	31	30	25	20	23
28	48	44	41	44	32	29	26	62	31	24	20	23
29	45	41	42	44	-----	28	23	32	28	21	17	24
30	43	44	41	44	-----	27	25	81	34	21	19	25
31	43	-----	40	45	-----	26	-----	89	-----	19	23	-----
TOTAL	1,489	1,211	1,256	1,175	1,104	948	679	1,123	5,182	880	483	861
MEAN	48.0	40.4	40.5	37.9	39.4	30.6	22.6	36.2	173	28.4	15.6	28.7
MAX	66	46	47	45	50	36	36	89	628	42	23	34
MIN	33	36	36	31	32	26	14	23	28	19	12	23
AC-FT	2,950	2,400	2,490	2,330	2,190	1,880	1,350	2,230	10,280	1,750	958	1,710
CAL YR 1970	TOTAL 17,957		MEAN 49.2		MAX 641		MIN 11		AC-FT 35,620			
WTR YR 1971	TOTAL 16,391		MEAN 44.9		MAX 628		MIN 12		AC-FT 32,510			

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 upstream from Wolf Creek, and 7.5 miles northwest of Hanna.

DRAINAGE AREA.--61 sq mi, 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 (from topographic map). Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums.

AVERAGE DISCHARGE.--27 years (1922-23, 1945-71), 48.7 cfs (35,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 464 cfs May 27 (gage height, 3.13 ft); minimum recorded, 3.7 cfs Mar. 19, result of freezeup.

Period of record: Maximum discharge recorded, 758 cfs June 5, 1967; maximum gage height, 4.40 ft June 4, 1952; minimum discharge recorded, 3.7 cfs Mar. 19, 1971, result of freezeup.

REMARKS.--Records good. One small diversion for irrigation of about 100 acres above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	18	15	17	16	25	56	212	94	29	23
2	19	17	19	15	18	16	24	70	212	89	29	22
3	19	15	14	13	13	17	25	89	216	83	29	23
4	19	16	16	14	13	17	25	102	224	80	32	24
5	20	20	18	14	16	17	27	89	230	77	31	22
6	21	18	15	14	16	17	30	85	235	72	32	21
7	22	19	16	15	16	17	34	90	265	69	31	29
8	20	18	19	15	17	17	33	86	279	68	30	26
9	21	18	18	15	17	17	37	81	280	64	31	23
10	24	19	17	15	16	17	43	81	297	59	29	21
11	21	15	15	15	16	19	49	89	265	57	27	21
12	22	19	14	15	16	17	53	115	226	54	26	20
13	22	17	13	14	17	16	56	140	230	52	26	20
14	20	11	16	13	17	14	59	182	255	50	25	20
15	20	15	18	14	16	16	63	228	275	48	25	20
16	19	17	17	15	16	17	71	242	271	46	25	20
17	19	18	17	16	18	15	73	185	259	45	25	21
18	19	18	17	28	17	15	67	157	232	47	25	21
19	20	17	15	30	15	16	60	145	211	47	24	21
20	19	16	16	24	17	16	57	139	195	44	23	21
21	20	19	17	17	13	16	55	147	179	42	23	21
22	20	19	16	17	15	17	53	157	170	41	24	21
23	18	19	15	20	17	19	53	151	161	40	23	20
24	22	20	15	23	17	20	51	180	150	38	22	20
25	18	20	15	20	14	19	50	237	137	37	22	20
26	18	19	15	21	12	22	47	285	127	36	23	20
27	16	19	16	19	14	27	45	343	121	34	23	21
28	17	19	16	17	16	25	44	333	114	33	25	21
29	20	13	15	17	-----	26	43	303	105	32	28	21
30	19	19	15	18	-----	29	46	264	99	31	25	24
31	20	-----	15	18	-----	30	-----	227	-----	29	24	-----
TOTAL	613	528	498	536	442	579	1,398	5,078	6,232	1,638	816	648
MEAN	19.8	17.6	16.1	17.3	15.8	18.7	46.6	164	208	52.8	26.3	21.6
MAX	24	20	19	30	18	30	73	343	297	94	32	29
MIN	16	11	13	13	12	14	24	56	99	29	22	20
AC-FT	1,220	1,050	988	1,060	877	1,150	2,770	10,070	12,360	3,250	1,620	1,290

CAL YR 1970 TOTAL 15,953 MEAN 43.7 MAX 374 MIN 11 AC-FT 31,640
WTR YR 1971 TOTAL 19,006 MEAN 52.1 MAX 343 MIN 11 AC-FT 37,700

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-15	2200	2.79	318	5-27	2400	3.13	464
6-07	2300	2.88	357	6-15	2100	2.82	338

GREEN RIVER BASIN

53

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 upstream from Rhoades Canyon, 2.8 miles upstream from mouth, and 9 miles northwest of Hanna.

DRAINAGE AREA.--9 sq mi, approximately.

PERIOD OF RECORD.--October 1945 to current year.

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

AVERAGE DISCHARGE.--26 years, 7.60 cfs (5,510 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 48 cfs June 16 (gage height, 2.37 ft); minimum, 3.3 cfs on many days in February, and Apr. 1, 2, 4.

Period of record: Maximum discharge, 82 cfs June 8, 1952 (gage height, 2.64 ft); minimum, 0.2 cfs sometime during Jan. 2-31, 1962, probably result of temporary obstruction upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	4.8	4.5	4.0	3.5	3.5	3.5	3.8	22	22	11	8.5
2	5.9	4.8	4.5	4.0	3.5	3.5	3.5	4.5	21	21	11	8.4
3	5.8	4.8	4.5	3.9	3.5	3.5	3.5	5.2	21	21	11	8.1
4	5.8	4.8	4.4	3.8	3.5	3.5	3.5	5.9	22	20	11	8.0
5	5.5	4.8	4.5	3.8	3.5	3.5	3.5	6.1	23	20	11	7.9
6	5.6	4.8	4.5	3.8	3.5	3.5	3.5	6.6	24	19	11	7.8
7	5.5	4.9	4.5	3.8	3.5	3.5	3.5	7.8	27	19	11	8.3
8	5.5	4.8	4.5	3.8	3.5	3.5	3.6	7.5	31	19	11	8.1
9	5.5	4.8	4.4	3.8	3.5	3.5	3.8	6.8	33	18	11	7.6
10	5.6	4.8	4.3	3.8	3.5	3.5	3.6	6.5	39	18	11	7.5
11	5.5	4.8	4.3	3.8	3.5	3.5	3.6	6.5	31	17	10	7.4
12	5.5	4.8	4.2	3.9	3.5	3.5	3.8	7.8	29	17	10	7.3
13	5.4	4.8	4.2	3.9	3.5	3.5	3.8	11	31	16	10	7.2
14	5.1	4.7	4.3	3.8	3.5	3.5	4.0	15	35	16	10	7.2
15	5.1	4.6	4.3	3.8	3.5	3.5	4.1	20	39	15	9.7	7.2
16	5.1	4.7	4.3	3.8	3.5	3.5	4.4	23	40	15	9.9	7.2
17	5.1	4.5	4.3	4.0	3.5	3.5	4.6	19	40	15	9.8	7.2
18	5.1	4.6	4.0	4.7	3.5	3.5	4.8	16	37	14	10	7.2
19	5.1	4.5	4.0	4.0	3.5	3.5	4.7	15	36	14	9.8	7.2
20	5.1	4.5	4.0	3.8	3.5	3.5	4.7	14	33	14	9.7	7.2
21	5.1	4.5	4.0	3.8	3.3	3.5	4.5	14	31	14	9.7	7.2
22	5.1	4.5	4.0	3.8	3.3	3.6	4.4	15	30	13	9.2	7.1
23	5.1	4.5	4.0	3.8	3.3	3.5	4.3	15	30	13	9.1	7.0
24	5.1	4.5	4.0	3.8	3.3	3.5	4.3	18	29	12	9.0	6.8
25	5.1	4.6	4.0	3.8	3.3	3.5	4.1	24	28	12	8.8	6.8
26	5.0	4.6	4.0	3.8	3.5	3.6	4.0	28	26	12	8.8	6.8
27	4.8	4.5	4.0	3.8	3.5	3.8	4.0	33	26	12	8.8	6.8
28	4.8	4.5	4.0	3.6	3.5	3.8	4.0	36	25	12	8.8	6.8
29	4.8	4.5	4.0	3.5	-----	3.7	3.9	34	24	12	9.1	6.8
30	4.8	4.5	4.0	3.5	-----	3.8	3.8	28	23	11	8.8	7.2
31	4.8	-----	4.0	3.5	-----	3.5	-----	24	-----	11	8.7	-----
TOTAL	163.1	139.8	130.5	118.7	97.0	109.8	119.3	477.0	886	484	307.7	221.8
MEAN	5.26	4.66	4.21	3.83	3.46	3.54	3.98	15.4	29.5	15.6	9.93	7.39
MAX	5.9	4.9	4.5	4.7	3.5	3.8	4.8	36	40	22	11	8.5
MIN	4.8	4.5	4.0	3.5	3.3	3.5	3.5	3.8	21	11	8.7	6.8
AC-FT	324	277	259	235	192	218	237	946	1,760	960	610	440

CAL YR 1970 TOTAL 2,734.8 MEAN 7.49 MAX 32 MIN 3.7 AC-FT 5,420
WTR YR 1971 TOTAL 3,254.7 MEAN 8.92 MAX 40 MIN 3.3 AC-FT 6,460

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-28	2100	2.29	40	6-09	2000	2.32	42
6-16	1800	2.37	48				

GREEN RIVER BASIN

09277500 Duchesne River near Tabiona, Utah

LOCATION.--Lat 40°17'56", long 110°36'54", in NE1/4NE1/4 sec.24, T.2 S., R.7 W., Uintah meridian, Duchesne County, on right bank 0.8 mile upstream from bridge on State Highway 35, 7 miles upstream from Rock Creek, and 7.5 miles southeast of Tabiona.

DRAINAGE AREA.--352 sq mi.

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 6,227 ft (from topographic map). Prior to Oct. 15, 1934, nonrecording gage, and Oct. 16, 1934, to Nov. 6, 1953, water-stage recorder, all at site half a mile downstream at various datums.

AVERAGE DISCHARGE.--53 years, 201 cfs (145,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,800 cfs June 18 (gage height, 5.62 ft); minimum, 62 cfs Oct. 1, 3, 4, 5.

Period of record: Maximum discharge, 5,260 cfs June 16, 1963 (gage height, 7.97 ft, from flood marks), caused by failure of Little Deer Creek Dam 20 miles upstream, from rating curve extended above 400 cfs on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 cfs Oct. 17, 1934.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Several diversions above station for irrigation, including a transmountain diversion through Duchesne tunnel 20 miles upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	133	122	88	103	108	116	168	655	625	139	124
2	65	129	127	87	102	108	112	191	620	557	140	105
3	64	131	114	80	100	109	114	230	580	364	137	100
4	65	125	111	73	96	109	109	283	595	338	126	105
5	66	135	124	78	100	111	111	287	625	319	137	106
6	72	135	118	81	100	111	116	221	635	303	163	102
7	85	142	112	82	100	111	127	230	700	283	185	105
8	88	137	109	83	106	110	125	247	944	263	174	127
9	84	129	97	84	106	111	131	234	950	254	167	109
10	82	130	88	83	100	111	144	221	1,210	240	156	103
11	81	125	84	84	100	114	173	211	1,090	230	148	100
12	82	137	94	86	104	107	188	244	866	215	140	96
13	82	131	107	84	108	102	202	307	819	200	137	94
14	73	116	96	86	111	101	218	410	971	200	127	96
15	73	116	93	93	108	101	224	489	1,340	197	126	96
16	74	127	92	98	109	100	244	572	1,530	187	127	91
17	74	127	92	110	115	100	275	467	1,560	185	127	91
18	74	129	94	130	112	97	283	364	1,580	171	133	96
19	85	122	94	145	110	102	251	328	1,500	169	121	94
20	102	118	92	130	112	104	227	271	1,500	195	117	96
21	107	127	92	110	105	102	214	254	1,350	183	117	94
22	120	127	90	100	103	104	205	274	1,410	183	122	93
23	124	125	90	102	108	109	205	263	1,420	187	117	89
24	135	125	90	110	111	112	211	280	1,340	183	108	90
25	133	129	90	109	109	107	205	378	1,180	167	112	87
26	129	135	90	108	102	109	188	480	1,060	142	119	83
27	124	133	90	107	106	127	175	670	992	122	119	86
28	124	131	90	105	110	122	170	825	848	114	121	87
29	135	118	90	104	-----	118	163	854	775	115	127	90
30	135	129	90	104	-----	124	160	896	685	154	139	89
31	133	-----	88	104	-----	133	-----	742	-----	148	129	-----
TOTAL	2,934	3,853	3,050	3,028	2,956	3,394	5,386	11,891	31,330	7,193	4,157	2,924
MEAN	94.6	128	98.4	97.7	106	109	180	384	1,044	232	134	97.5
MAX	135	142	127	145	115	133	283	896	1,580	625	185	127
MIN	64	116	84	73	96	97	109	168	580	114	108	83
AC-FT	5,820	7,640	6,050	6,010	5,860	6,730	10,680	23,590	62,140	14,270	8,250	5,800
CAL YR 1970	TOTAL 54,893 MEAN 150 MAX 880 MIN 64 AC-FT 108,900											
WTR YR 1971	TOTAL 82,096 MEAN 225 MAX 1,580 MIN 64 AC-FT 162,800											

PEAK DISCHARGE (BASE, 900 CFS)

NOTE.--No gage-height record Dec. 14 to Mar. 10.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-30	0400	4.88	1,010	6-18	0800	5.62	1,800
6-10	0500	5.13	1,330				

GREEN RIVER BASIN

55

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 downstream from Upper Stillwater campground horse-trail bridge, 1 mile upstream from South Fork, and 11 miles north of Hanna.

DRAINAGE AREA.--98 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--6 years, 147 cfs (106,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,760 cfs June 17 (gage height, 4.95 ft); minimum daily, 20 cfs on several days.
Period of record: Maximum discharge, 2,760 cfs June 17, 1971 (gage height, 4.95 ft); minimum recorded, 11 cfs Apr. 4, 1970, 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	36	38	26	24	20	41	79	481	620	107	66
2	41	35	37	25	24	20	38	104	421	584	104	61
3	41	34	37	24	24	20	37	154	385	584	105	57
4	41	34	36	23	23	20	38	189	388	549	115	57
5	41	34	36	22	20	20	39	153	391	512	118	55
6	44	35	35	23	23	22	43	134	413	478	119	53
7	45	36	34	23	23	22	47	130	531	437	116	77
8	43	39	34	24	23	22	45	126	702	410	110	74
9	45	39	33	25	23	22	50	118	774	387	114	61
10	48	38	33	25	23	22	55	118	888	351	101	57
11	50	38	32	25	23	22	59	118	744	318	94	54
12	51	37	31	25	23	22	67	148	588	290	90	52
13	50	37	31	25	23	22	74	171	642	279	86	50
14	45	36	32	25	23	22	84	251	976	270	83	47
15	41	36	33	25	23	22	88	329	1,510	247	80	46
16	41	35	33	25	22	22	95	373	1,800	234	79	45
17	40	35	33	27	22	22	105	314	1,920	231	77	47
18	40	35	33	32	22	22	105	260	1,970	249	82	47
19	41	35	33	35	22	20	96	217	1,790	269	76	46
20	39	35	33	30	22	20	87	192	1,720	241	74	46
21	40	35	30	26	22	21	82	190	1,660	206	71	45
22	40	35	30	25	22	22	79	213	1,790	190	74	44
23	38	35	30	25	22	20	77	203	1,790	184	71	43
24	43	36	30	24	22	20	75	249	1,580	179	66	42
25	37	37	30	24	22	21	73	393	1,320	157	65	42
26	38	39	30	24	20	23	71	530	1,170	146	68	41
27	43	42	29	24	20	34	69	691	998	137	63	40
28	43	41	28	24	20	34	65	810	857	129	63	38
29	41	40	28	24	-----	34	64	767	788	122	84	39
30	39	39	27	24	-----	39	68	674	682	116	77	45
31	37	-----	27	24	-----	43	-----	552	-----	111	75	-----
TOTAL	1,309	1,098	996	782	625	737	2,016	8,950	31,669	9,217	2,707	1,517
MEAN	42.2	36.6	32.1	25.2	22.3	23.8	67.2	289	1,056	297	87.3	50.6
MAX	51	42	38	35	24	43	105	810	1,970	620	119	77
MIN	37	34	27	22	20	20	37	79	385	111	63	38
AC-FT	2,600	2,180	1,980	1,550	1,240	1,460	4,000	17,750	62,820	18,280	5,370	3,010

CAL YR 1970 TOTAL 45,111 MEAN 124 MAX 1,120 MIN 16 AC-FT 89,480
WTR YR 1971 TOTAL 61,623 MEAN 169 MAX 1,970 MIN 20 AC-FT 122,200

PEAK DISCHARGE (BASE, 1,000 CFS).--June 17 (2200) 2,760 cfs (4.95 ft); June 22 (2300) 2,610 cfs (4.87 ft).

NOTE.--No gage-height record Jan. 5-Mar. 22.

GREEN RIVER BASIN

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 100 ft upstream from road bridge, 1 mile upstream from mouth, and 11 miles northeast of Hanna.

DRAINAGE AREA.--14 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft (from river-profile map).

AVERAGE DISCHARGE.--18 years, 13.1 cfs (9,490 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 160 cfs June 17 (gage height, 2.60 ft); minimum measured discharge, 2.7 cfs Mar. 22, but may have been less during winter periods of no gage-height record.

Period of record: Maximum discharge, 183 cfs June 12, 1965 (gage height, 2.49 ft); maximum gage height, 2.91 ft 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 cfs) 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.9	4.0	3.5	3.1	3.0	4.2	10	25	51	16	9.4
2	5.3	4.8	3.9	3.4	3.1	3.0	3.9	14	23	49	15	8.9
3	5.3	4.7	3.9	3.3	3.1	3.0	3.8	24	23	47	15	8.7
4	5.3	4.6	3.8	3.1	3.1	3.0	3.7	23	23	46	17	9.0
5	5.4	4.5	3.8	3.0	3.1	3.0	3.9	19	24	45	15	8.8
6	5.7	4.4	3.8	3.0	3.1	3.0	4.1	18	24	44	20	8.5
7	5.7	4.5	3.8	3.1	3.1	3.0	4.3	18	27	43	18	11
8	5.6	4.6	3.7	3.2	3.1	3.0	4.5	17	31	40	16	9.7
9	5.5	4.8	3.7	3.3	3.1	3.0	5.0	16	37	38	15	9.0
10	5.7	4.9	3.7	3.3	3.1	3.0	6.0	16	43	36	14	8.8
11	5.7	4.8	3.7	3.3	3.1	3.0	7.0	17	38	34	14	8.5
12	5.7	4.8	3.7	3.4	3.0	3.0	8.0	22	34	33	13	8.2
13	5.5	4.8	3.7	3.5	3.0	3.0	9.0	25	40	31	13	8.2
14	5.5	4.8	3.6	3.6	3.0	3.0	10	33	46	30	13	8.0
15	5.5	4.7	3.6	3.8	3.0	2.9	11	36	58	30	13	7.8
16	5.4	4.7	3.6	3.9	3.0	2.8	13	33	62	29	12	7.6
17	5.4	4.6	3.6	4.0	3.0	2.8	13	28	96	28	11	8.4
18	5.3	4.6	3.6	4.0	3.0	2.8	13	24	49	32	11	8.1
19	5.1	4.5	3.6	4.0	3.0	2.8	12	23	79	30	11	7.7
20	5.1	4.5	3.5	3.9	3.0	2.9	12	22	72	29	10	8.4
21	5.0	4.4	3.5	3.9	3.0	3.1	11	23	75	27	10	8.1
22	5.0	4.4	3.5	3.8	3.0	3.2	11	24	74	26	9.9	7.9
23	5.0	4.3	3.5	3.7	3.0	3.3	11	23	86	25	10	7.3
24	5.0	4.2	3.5	3.7	3.0	3.5	11	27	78	24	10	7.1
25	5.0	4.2	3.5	3.6	3.0	3.7	11	33	68	23	9.7	6.9
26	4.9	4.1	3.5	3.5	3.0	3.9	10	37	77	22	9.6	6.5
27	4.8	4.1	3.5	3.4	3.0	4.1	9.4	41	73	20	9.8	7.1
28	5.1	4.0	3.5	3.4	3.0	4.3	8.8	39	64	19	9.7	6.8
29	5.3	4.0	3.5	3.3	-----	4.4	7.9	37	58	18	13	6.5
30	5.2	4.0	3.5	3.2	-----	4.3	8.4	33	54	18	11	8.6
31	5.0	-----	3.5	3.2	-----	4.2	-----	29	-----	17	9.8	-----
TOTAL	164.4	135.2	112.8	108.3	85.1	101.0	250.9	784	1,561	984	394.5	245.5
MEAN	5.30	4.51	3.64	3.49	3.04	3.26	8.36	25.3	52.0	31.7	12.7	8.18
MAX	5.7	4.9	4.0	4.0	3.1	4.4	13	41	96	51	20	11
MIN	4.8	4.0	3.5	3.0	3.0	2.8	3.7	10	23	17	9.6	6.5
AC-FT	326	268	224	215	169	200	498	1,560	3,100	1,950	782	487

CAL YR 1970 TOTAL 3,793.0 MEAN 10.4 MAX 61 MIN 2.2 AC-FT 7,520

WTR YR 1971 TOTAL 4,926.7 MEAN 13.5 MAX 96 MIN 2.8 AC-FT 9,770

PEAK DISCHARGE (BASE, 60 CFS).--June 17 (0500) 160 cfs (2.60 ft); June 22 (2000) 111 cfs (2.41 ft).

NOTE.--No gage-height record Nov. 19 to Mar. 22.

GREEN RIVER BASIN

57

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 upstream from Corral Creek, 7 miles downstream from South Fork, and 12 miles northwest of Mountain Home.

DRAINAGE AREA.--149 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--34 years, 172 cfs (124,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,920 cfs June 18 (gage height, 5.98 ft from outside high-water mark); minimum, 8.1 cfs Feb. 3 (probably caused by ice jams above station).

Period of record: Maximum discharge, 2,920 cfs June 18, 1971 (gage height, 5.98 ft); maximum gage height, 6.02 ft June 14, 1953; minimum discharge recorded, 7 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	60	62	49	48	37	53	109	513	727	157	105
2	68	55	60	48	47	39	50	129	458	663	153	97
3	67	54	58	44	39	39	52	173	416	663	155	94
4	66	51	56	41	41	40	50	220	416	625	167	92
5	67	59	56	43	43	38	52	193	420	582	178	89
6	71	57	55	44	40	39	56	176	428	537	176	85
7	75	63	54	46	42	39	63	178	513	494	176	110
8	70	62	56	48	44	39	62	181	739	464	163	116
9	74	62	57	49	43	40	69	168	793	435	169	97
10	81	62	55	49	45	41	81	165	1,000	406	154	89
11	76	59	48	50	45	41	98	159	905	373	145	85
12	83	63	44	51	44	40	105	188	727	344	141	83
13	80	61	42	50	44	40	115	203	745	328	137	79
14	72	53	45	49	44	39	123	261	975	323	132	76
15	67	57	48	48	43	39	132	342	1,390	302	130	74
16	69	59	45	52	41	40	142	403	1,700	287	128	73
17	67	58	48	64	42	37	157	352	1,760	287	126	77
18	66	57	48	89	42	37	146	296	2,000	295	131	77
19	69	57	49	80	39	39	132	264	1,660	334	124	76
20	64	56	49	66	43	40	122	240	1,720	302	119	76
21	67	57	49	61	39	40	116	229	1,580	265	116	75
22	66	55	50	50	38	41	112	258	1,710	246	118	74
23	59	56	51	51	40	45	116	252	1,730	237	113	72
24	73	58	51	52	40	45	115	270	1,640	234	107	70
25	60	60	51	49	38	44	112	395	1,440	210	105	69
26	58	62	51	51	37	48	105	518	1,280	197	109	68
27	58	66	52	50	37	55	101	697	1,150	187	103	67
28	64	63	51	48	37	51	95	844	947	179	104	65
29	66	56	50	47	-----	50	95	831	891	172	129	66
30	62	65	49	48	-----	55	97	757	787	166	127	73
31	60	-----	49	48	-----	58	-----	614	-----	163	117	-----
TOTAL	2,115	1,763	1,589	1,615	1,165	1,315	2,924	10,065	32,433	11,027	4,209	2,449
MEAN	68.2	58.8	51.3	52.1	41.6	42.4	97.5	325	1,081	356	136	81.6
MAX	83	66	62	89	48	58	157	844	2,000	727	178	116
MIN	58	51	42	41	37	37	50	109	416	163	103	65
AC-FT	4,200	3,500	3,150	3,200	2,310	2,610	5,800	19,960	64,330	21,870	8,350	4,860

CAL YR 1970 TOTAL 55,227 MEAN 151 MAX 1,160 MIN 37 AC-FT 109,500
WTR YR 1971 TOTAL 72,669 MEAN 199 MAX 2,000 MIN 37 AC-FT 144,100

PEAK DISCHARGE (BASE, 1,200 CFS).--June 18 (0300) 2,920 cfs (5.98 ft); June 23 (0300) 2,150 cfs (5.46 ft).

GREEN RIVER BASIN

09279100 Rock Creek near Talmage, Utah

LOCATION.--Lat 40°18'40", long 110°29'36", in SE¼NE¼NW¼ sec.18, T.2 S., R.5 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1.5 miles upstream from mouth, 4.1 miles southwest of Talmage and 11 miles northwest of Duchesne.

DRAINAGE AREA.--240 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--8 years, 200 cfs (144,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,900 cfs June 18 (gage height, 3.98 ft); minimum, 22 cfs Mar. 6, result of freezeup.
Period of record: Maximum discharge, 2,320 cfs July 29, 1968 (gage height, 4.37 ft); minimum indicated, 21 cfs Nov. 26, 1967, Jan. 9, 1969, probably caused by ice jams above station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	75	73	53	54	42	52	117	531	682	144	103
2	63	69	73	52	52	42	50	136	465	616	136	91
3	62	71	64	51	50	43	53	186	430	616	133	89
4	62	66	66	50	55	44	50	242	420	586	144	86
5	61	73	64	49	58	43	50	224	425	547	156	84
6	63	71	63	50	54	43	55	207	425	509	150	82
7	71	80	60	52	47	43	60	207	481	470	160	95
8	67	75	62	52	48	44	62	221	670	435	144	133
9	67	71	63	52	48	45	64	203	728	415	144	103
10	75	80	62	53	48	45	75	196	942	380	128	91
11	69	66	58	54	48	46	93	189	875	357	115	86
12	82	75	53	55	49	46	107	214	707	334	110	83
13	78	71	52	56	49	45	115	228	682	317	107	78
14	69	58	54	58	48	42	131	281	847	309	103	75
15	66	66	58	60	47	47	139	352	1,220	293	100	72
16	64	70	56	70	46	45	147	415	1,500	281	98	71
17	64	70	56	80	46	43	169	380	1,570	277	95	74
18	64	68	56	86	49	38	166	334	1,710	301	103	79
19	66	67	58	91	42	42	150	305	1,560	321	100	76
20	64	73	60	85	49	46	139	281	1,620	305	95	75
21	66	68	60	80	46	45	131	265	1,470	269	93	76
22	66	66	60	70	46	45	125	289	1,570	249	95	77
23	64	64	60	65	45	46	131	289	1,620	238	93	73
24	71	66	59	60	45	49	133	293	1,540	242	86	71
25	66	67	58	58	45	47	128	385	1,390	210	84	69
26	58	71	58	56	43	47	117	476	1,230	196	93	67
27	58	73	58	55	45	55	112	634	1,130	182	91	67
28	66	73	58	55	43	53	107	784	934	172	91	66
29	80	64	58	54	-----	50	107	798	875	163	105	65
30	75	75	57	54	-----	53	105	728	756	153	125	69
31	73	-----	55	54	-----	58	-----	622	-----	150	112	-----
TOTAL	2,085	2,102	1,852	1,870	1,345	1,422	3,123	10,481	30,323	10,575	3,533	2,426
MEAN	67.3	70.1	59.7	60.3	48.0	45.9	104	338	1,011	341	114	80.9
MAX	82	80	73	91	58	58	169	798	1,710	682	160	133
MIN	58	58	52	49	42	38	50	117	420	150	84	65
AC-FT	4,140	4,170	3,670	3,710	2,670	2,820	6,190	20,790	60,150	20,980	7,010	4,810
CAL YR 1970	TOTAL 56,520	MEAN 155	MAX 1,130	MIN 39	AC-FT 112,100							
WTR YR 1971	TOTAL 71,137	MEAN 195	MAX 1,710	MIN 38	AC-FT 141,100							

PEAK DISCHARGE (BASE, 1,200 CFS).--June 18 (0800) 1,900 cfs (3.98 ft).

GREEN RIVER BASIN

59

09279150 Duchesne River above Knight diversion, near Duchesne, Utah

LOCATION.--Lat 40°16'16", long 110°26'32", in SE¼SW¼SW¼ sec.27, T.2 S., R.5 W., Uintah meridian, Duchesne County, on left bank 175 ft upstream from bridge on State Highway 35, 1.7 miles upstream from Knight diversion dam, 3.9 miles downstream from Rock Creek, and 7.7 miles north-northwest of Duchesne.

DRAINAGE AREA.--620 sq mi, approximately.

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 3,430 cfs June 18 (gage height, 5.33 ft); minimum, 139 cfs Sept. 17.

Period of record: Maximum discharge 3,430 cfs June 18, 1971 (gage height, 5.33 ft); minimum, 97 cfs May 2, Sept. 3, 1970.

REMARKS.--Records good except those during winter period, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	208	194	150	165	139	170	264	1,220	1,390	278	198
2	133	200	205	150	162	135	168	291	1,110	1,250	278	172
3	132	195	184	150	145	145	174	360	1,030	1,010	272	160
4	133	186	174	150	138	154	166	444	1,030	920	269	162
5	134	204	194	140	160	131	165	439	1,040	855	296	162
6	142	204	179	140	178	119	176	364	1,060	794	308	158
7	174	216	177	150	168	136	194	366	1,150	716	355	165
8	178	213	182	170	175	145	196	417	1,490	670	317	228
9	176	207	180	180	178	134	198	381	1,580	637	320	188
10	193	216	172	170	180	157	220	359	2,020	592	302	170
11	199	197	150	160	186	151	252	343	1,930	556	278	162
12	202	217	153	160	175	155	273	385	1,580	520	260	155
13	200	213	160	160	174	148	288	445	1,490	470	254	149
14	182	183	169	160	178	127	316	566	1,720	458	245	145
15	171	185	169	160	170	132	333	693	2,450	442	242	147
16	168	201	160	170	165	133	351	871	2,870	410	242	145
17	166	198	160	182	165	142	389	789	2,950	406	233	145
18	167	204	160	210	179	111	405	679	3,040	470	242	155
19	173	185	160	250	151	124	379	596	2,770	454	239	158
20	184	188	160	225	165	134	345	512	2,810	470	228	165
21	190	200	160	215	142	137	329	466	2,580	430	230	170
22	201	199	160	205	139	145	312	500	2,750	406	236	175
23	204	195	150	200	155	154	308	503	2,850	406	233	165
24	215	196	150	190	155	164	322	512	2,610	406	212	165
25	214	197	150	180	151	156	311	681	2,260	369	218	158
26	200	210	150	170	132	152	293	866	2,050	338	220	153
27	194	210	150	165	138	182	266	1,190	1,910	293	225	155
28	197	210	150	165	128	177	260	1,530	1,810	263	222	160
29	221	193	150	162	-----	172	254	1,550	1,700	260	239	162
30	213	206	150	162	-----	177	249	1,590	1,500	293	233	162
31	206	-----	150	162	-----	194	-----	1,390	-----	290	210	-----
TOTAL	5,596	6,036	5,112	5,363	4,497	4,562	8,062	20,342	58,360	17,244	7,936	4,914
MEAN	181	201	165	173	161	147	269	656	1,945	556	256	164
MAX	221	217	205	250	186	194	405	1,590	3,040	1,390	355	228
MIN	132	183	150	140	128	111	165	264	1,030	260	210	145
AC-FT	11,100	11,970	10,140	10,640	8,920	9,050	15,990	40,350	115,800	34,200	15,740	9,750

CAL YR 1970 TOTAL 16,744.00 MEAN 45.9 MAX 221 MIN 0 AC-FT 33,210
WTR YR 1971 TOTAL 148,024.00 MEAN 406 MAX 3,040 MIN 111 AC-FT 293,600

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-28	1000	3.99	1,710	6-18	1200	5.33	3,430
6-11	0700	4.34	2,210	6-23	1000	5.23	3,330

GREEN RIVER BASIN

09280400 Hobbie 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 upstream from crossing of Hobbie Creek ditch, 0.5 mile west of Daniels Summit on U.S. Highway 40, and 10.5 miles southeast of Wallsburg.

DRAINAGE AREA.--1.4 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--8 years, 2.80 cfs (2,030 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 53 cfs May 28 (gage height, 2.38 ft); minimum, 0.01 cfs for part of each day Aug. 19-20.
Period of record: Maximum discharge, 117 cfs June 5, 1968 (gage height, 2.65 ft); no flow at times during February to April 1964, January to March 1966, Sept. 4, 1967, Aug. 10-17, 1970.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.38	.46	.12	.11	.11	.72	3.3	16	1.7	.11	.09
2	.25	.37	.41	.11	.11	.13	.72	6.9	16	1.6	.10	.08
3	.22	.34	.41	.11	.10	.14	.68	10	17	1.4	.11	.14
4	.24	.44	.38	.10	.10	.15	.66	9.8	17	1.3	.18	.14
5	.24	.42	.38	.10	.10	.15	.64	8.1	17	1.2	.19	.13
6	.33	.38	.35	.10	.10	.15	.66	7.4	17	1.1	.40	.11
7	.39	.38	.38	.10	.10	.15	.68	7.8	18	1.0	.19	.75
8	.36	.43	.38	.10	.10	.16	.78	7.7	19	.93	.13	.30
9	.42	.38	.38	.10	.10	.19	.86	6.9	19	.83	.11	.15
10	.51	.38	.42	.11	.10	.20	.96	8.3	19	.76	.10	.11
11	.41	.36	.38	.11	.10	.22	1.1	12	17	.65	.09	.09
12	.42	.36	.37	.11	.10	.23	1.3	15	13	.58	.10	.08
13	.40	.36	.35	.11	.10	.25	1.4	17	12	.54	.07	.05
14	.35	.34	.34	.11	.10	.27	1.5	24	12	.50	.06	.05
15	.31	.35	.33	.12	.10	.29	1.7	33	11	.45	.06	.05
16	.33	.35	.32	.13	.10	.31	1.8	30	11	.41	.06	.06
17	.32	.32	.31	.14	.10	.32	1.9	20	9.5	.35	.06	.07
18	.31	.34	.31	.15	.10	.32	1.9	14	8.4	.35	.05	.10
19	.30	.34	.30	.15	.10	.32	1.8	12	7.0	.36	.04	.12
20	.30	.34	.29	.15	.10	.31	1.8	13	5.9	.34	.04	.14
21	.30	.34	.28	.14	.10	.31	1.7	17	5.0	.40	.06	.12
22	.34	.34	.27	.13	.10	.30	1.5	16	4.5	.33	.07	.12
23	.39	.35	.26	.12	.10	.32	1.3	14	4.1	.30	.06	.13
24	.42	.43	.24	.12	.10	.43	1.3	19	4.7	.26	.07	.13
25	.45	.43	.23	.11	.10	.60	1.2	28	3.2	.23	.05	.11
26	.47	.82	.21	.11	.10	.68	1.2	33	2.7	.20	.05	.11
27	.43	1.2	.19	.11	.10	.71	1.1	37	2.6	.16	.12	.15
28	.44	.66	.18	.11	.10	.67	.96	39	2.1	.15	.34	.13
29	.46	.48	.17	.11	-----	.64	1.0	29	1.9	.13	.29	.14
30	.46	.43	.15	.11	-----	.64	1.4	21	1.8	.12	.15	.21
31	.46	-----	.13	.11	-----	.66	-----	18	-----	.12	.12	-----
TOTAL	11.28	12.84	9.56	3.61	2.82	10.33	36.22	537.2	314.4	18.75	3.63	4.16
MEAN	.36	.43	.31	.12	.10	.33	1.21	17.3	10.5	.60	.12	.14
MAX	.51	1.2	.46	.15	.11	.71	1.9	39	19	1.7	.40	.75
MIN	.22	.32	.13	.10	.10	.11	.64	3.3	1.8	.12	.04	.05
AC-FT	22	25	19	7.2	5.6	20	72	1,070	624	37	7.2	8.3

CAL YR 1970 TOTAL 759.75 MEAN 2.08 MAX 39 MIN .01 AC-FT 1,510
WTR YR 1971 TOTAL 964.80 MEAN 2.64 MAX 39 MIN .04 AC-FT 1,910

PEAK DISCHARGE (BASE, 30 CFS).--May 15 (1900) 46 cfs (2.31 ft); May 28 (1700) 53 cfs (2.38 ft).

NOTE.--No gage-height record Dec. 13 to Jan. 27, and Feb. 26 to Apr. 21.

09285000 Strawberry River near Soldier Springs, Utah

LOCATION.--Lat 40°08'39", long 111°01'19", in NW¼SE¼SW¼ sec.16, T.4 S., R.10 W., Uintah meridian, Wasatch County, on left bank 1.5 miles downstream from Stinking Springs, 1.2 miles upstream from Willow Creek, and 4 miles south of Soldier Springs.

DRAINAGE AREA.--210 sq mi, approximately (includes approximately 170 sq mi 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 7,320 ft above mean sea level (from topographic map). Prior to Aug. 16, 1948, water-stage recorder at same site at datum 0.2 ft lower. From Oct. 1, 1963, to June 1, 1971, at site 1 mile upstream at different datum.

AVERAGE DISCHARGE.--22 years, 31.0 cfs (22,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 153 cfs Apr. 11 (gage height, 2.28 ft); minimum, 0 cfs Aug. 13, when construction crew was building a settling pond above gage.

Period of record: Maximum discharge, 1020 cfs May 4, 1952 (gage height, 3.84 ft), from rating curve extended above 550 cfs; minimum recorded, 6.5 cfs Jan. 23, 1964.

REMARKS.--Records good except periods of no gage-height record, which are fair. Water storage was started July 14, 1912; in Strawberry Reservoir, 7 miles upstream, for use in Great Basin (see station 09282500). Water is seldom released from reservoir into Strawberry River. Transmountain diversions from reservoir through Strawberry tunnel to Spanish Fork drainage and from tributaries above reservoir through Hobbie Creek ditch, and Strawberry River and Willow Creek ditch to Provo River drainage.

REVISIONS.--WRD Utah 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	19	16	16	16	32	44	44	35	31	28
2	23	21	19	17	16	16	32	44	43	36	31	27
3	23	20	18	17	16	17	36	44	42	35	31	26
4	23	21	18	17	15	18	40	44	42	35	31	27
5	23	21	18	17	16	20	45	45	42	35	31	26
6	24	21	18	17	15	20	48	45	41	34	31	26
7	24	22	18	17	15	21	52	45	41	34	32	27
8	23	22	18	17	15	22	54	47	41	34	32	27
9	23	22	18	16	15	23	66	50	41	34	32	28
10	25	22	18	16	15	24	88	47	43	34	33	27
11	24	21	18	16	15	26	98	45	43	34	32	26
12	23	21	18	16	15	27	74	44	41	33	31	26
13	23	21	18	16	15	27	63	45	40	33	31	27
14	22	20	18	16	15	26	58	46	40	33	31	26
15	22	20	18	15	15	25	53	45	39	33	30	26
16	22	20	18	15	15	24	51	46	39	32	30	25
17	22	20	18	15	15	23	51	46	38	32	30	25
18	22	20	18	16	15	23	48	46	38	32	30	26
19	22	19	18	17	15	23	49	46	38	32	30	25
20	22	20	17	17	15	24	46	47	38	32	30	25
21	22	19	17	17	15	25	52	46	37	33	29	25
22	22	19	17	17	15	29	49	45	36	32	29	25
23	22	20	17	16	15	32	46	44	36	33	30	25
24	23	21	17	16	15	36	58	43	36	32	28	25
25	22	22	17	16	15	40	53	42	36	32	28	25
26	22	22	17	16	15	44	48	42	35	32	28	24
27	21	21	17	16	15	40	55	41	36	31	28	24
28	21	20	17	16	15	36	55	43	36	31	29	24
29	21	20	17	16	-----	44	47	46	35	31	30	24
30	21	20	17	15	-----	39	45	47	35	31	29	25
31	22	-----	16	16	-----	35	-----	46	-----	31	29	-----
TOTAL	698	620	547	503	424	845	1,592	1,396	1,172	1,021	937	772
MEAN	22.5	20.7	17.6	16.2	15.1	27.3	53.1	45.0	39.1	32.9	30.2	25.7
MAX	25	22	19	17	16	44	98	50	44	36	33	28
MIN	21	19	16	15	15	16	32	41	35	31	28	24
AC-FT	1,380	1,230	1,080	998	841	1,680	3,160	2,770	2,320	2,030	1,860	1,530

CAL YR 1970 TOTAL 10,268 MEAN 28.1 MAX 213 MIN 16 AC-FT 20,370
WTR YR 1971 TOTAL 10,527 MEAN 28.8 MAX 98 MIN 15 AC-FT 20,880

NOTE.--No gage-height record Mar. 1-30.

GREEN RIVER BASIN

09285700 Strawberry River above Red Creek, near Fruitland, Utah

LOCATION.--Lat 40°07'01", long 110°48'27", in NE¼NW¼SE¼ sec.20, T.4 S., R.8 W., Uintah meridian, Duchesne County, on left bank 0.25 mile downstream from Timber Canyon, 3 miles upstream from Avintaquin Canyon, 4 miles upstream from Red Creek, and 7 miles south-east of Fruitland.

DRAINAGE AREA.--360 sq mi, approximately (includes approximately 170 sq mi tributary to Strawberry Reservoir).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,360 ft (from topographic map). Prior to Apr. 7, 1971, at site 0.3 mile downstream at different datum.

AVERAGE DISCHARGE.--8 years, 59.5 cfs (43,110 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 158 cfs May 16 (gage height, 3.00 ft); minimum recorded, 13 cfs Feb. 21, 22.

Period of record: Maximum discharge, 610 cfs May 14, 1964 (gage height, 3.80 ft, from flood marks), from rating curve extended above 330 cfs; maximum gage height, 5.10 ft July 9, 1970 (backwater from debris 0.2 mile below station); minimum discharge recorded, 9.7 cfs Dec. 8, 1963, result of freezeup.

REMARKS.--Records good except those for winter periods and period of no gage-height record, which are poor. Several transmountain diversions upstream. Storage began July 14, 1912, in Strawberry Reservoir for use in Great Basin. Water is seldom released from reservoir into Strawberry River. Transmountain diversions from reservoir through Strawberry tunnel to Spanish Fork drainage and from tributaries above reservoir through Hobbie Creek ditch and Strawberry River and Willow Creek ditch to Provo River drainage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	42	36	23	27	24	57	66	124	73	47	49
2	27	41	36	22	26	26	58	68	120	72	47	47
3	29	41	35	22	25	28	62	73	117	66	46	47
4	30	39	34	21	24	33	68	86	115	68	48	47
5	32	40	33	21	23	38	77	99	115	68	51	46
6	36	40	33	21	23	43	85	102	113	66	58	45
7	38	39	32	22	22	45	96	102	109	68	58	47
8	39	38	31	22	22	47	90	104	104	65	56	48
9	40	38	30	23	22	49	82	104	106	63	54	43
10	45	38	30	24	22	48	109	99	106	63	56	36
11	52	36	29	24	22	47	126	99	106	63	53	37
12	51	36	28	25	20	47	104	108	108	61	44	38
13	50	36	28	26	19	44	82	115	104	61	48	39
14	49	34	27	28	19	43	75	120	99	61	44	38
15	47	36	27	30	19	43	70	140	95	60	48	38
16	47	35	26	32	18	44	72	154	93	60	48	39
17	47	36	26	34	19	44	70	153	90	60	47	40
18	46	36	26	35	18	44	68	144	86	64	42	40
19	45	36	25	35	18	46	70	138	88	66	48	41
20	45	35	25	35	18	45	70	133	86	63	47	41
21	46	36	24	35	18	37	70	129	84	60	47	41
22	45	36	24	35	22	34	73	129	82	58	52	41
23	45	36	24	35	23	36	70	127	81	54	53	41
24	47	36	24	34	24	37	75	122	81	56	48	40
25	45	37	23	33	23	37	79	122	79	56	44	38
26	45	38	23	32	23	39	72	124	79	57	45	40
27	45	38	23	32	23	48	73	127	79	57	57	40
28	44	37	23	31	23	52	77	126	79	56	51	40
29	44	36	23	30	-----	53	72	122	75	54	51	42
30	44	38	23	29	-----	54	68	129	73	51	54	41
31	43	-----	23	29	-----	62	-----	127	-----	49	56	-----
TOTAL	1,314	1,120	854	880	605	1,317	2,320	3,591	2,876	1,899	1,548	1,250
MEAN	42.4	37.3	27.5	28.4	21.6	42.5	77.3	116	95.9	61.3	49.9	41.7
MAX	52	42	36	35	27	62	126	154	124	73	58	49
MIN	26	34	23	21	18	24	57	66	73	49	42	36
AC-FT	2,610	2,220	1,690	1,750	1,200	2,610	4,600	7,120	5,700	3,770	3,070	2,480

CAL YR 1970 TOTAL 18,905 MEAN 51.8 MAX 214 MIN 23 AC-FT 37,500
WTR YR 1971 TOTAL 19,574 MEAN 53.6 MAX 154 MIN 18 AC-FT 38,830

NOTE.--No gage-height record Dec. 3-Jan. 26.

GREEN RIVER BASIN

63

09287500 Water Hollow near Fruitland, Utah

LOCATION.--Lat 40°14'30", long 110°58'48", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.2, T.3 S., R.10 W., Uintah meridian, Wasatch County, on left bank 1.5 miles upstream from mouth and 7.5 miles northwest of Fruitland.

DRAINAGE AREA.--14.0 sq mi.

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

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

AVERAGE DISCHARGE.--25 years, 5.71 cfs (4,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23 cfs Aug. 6 (gage height, 1.94 ft); maximum gage height, 3.16 ft Jan. 18 (backwater from ice); minimum discharge, 1.0 cfs Oct. 29.

Period of record: Maximum discharge, 133 cfs July 18, 1954 (gage height, 3.24 ft), from rating curve extended above 56 cfs on basis of slope-area measurement of peak flow; maximum gage height, 3.59 ft Nov. 25, 1969 (backwater from ice); minimum discharge recorded, 0.6 cfs Dec. 29, 1958.

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

REVISIONS (WATER YEARS).--WSP 1243: 1951(M). WSP 1217: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.2	3.1	2.9	3.0	2.6	3.7	3.7	10	8.0	5.7	4.7
2	3.4	3.4	3.1	2.8	2.9	2.7	3.9	4.0	10	7.9	5.7	4.9
3	2.8	3.5	3.0	2.8	2.3	2.8	4.0	4.3	9.3	7.6	5.8	5.1
4	2.8	3.5	2.9	2.8	2.5	2.9	4.1	4.7	8.3	7.8	6.5	4.3
5	2.7	3.1	2.9	2.7	2.4	2.9	4.2	5.0	8.8	7.6	6.8	4.8
6	2.8	3.0	2.9	2.6	2.3	3.0	4.3	5.1	8.6	7.4	7.4	4.8
7	2.7	3.7	2.9	2.5	2.3	3.0	4.6	5.5	8.0	7.2	6.1	5.6
8	2.7	3.8	2.9	2.4	2.3	3.0	4.4	6.2	8.6	7.4	5.9	5.0
9	3.1	3.1	2.9	2.4	2.4	3.1	4.2	5.8	8.4	7.1	6.1	4.8
10	3.3	3.1	2.9	2.3	2.4	3.1	4.1	5.7	8.8	7.1	5.9	4.7
11	3.0	3.7	2.9	2.3	2.4	3.1	4.1	5.7	8.8	6.9	5.4	4.6
12	2.9	3.4	2.9	2.3	2.4	3.1	3.8	6.2	8.9	6.6	5.3	4.4
13	2.8	3.3	2.9	2.3	2.5	3.2	3.7	6.9	8.9	6.6	6.2	4.4
14	2.8	3.2	2.9	2.3	2.5	3.2	3.8	8.2	8.7	6.8	6.1	4.3
15	2.8	3.1	2.9	2.3	2.6	3.2	3.7	11	8.6	6.7	6.0	4.4
16	2.8	3.0	2.9	2.3	2.6	3.1	3.8	11	8.3	7.2	5.9	4.7
17	2.9	3.0	2.9	2.7	2.6	3.0	3.9	10	7.3	6.3	5.8	4.8
18	2.9	3.0	2.9	3.0	2.7	2.9	4.3	10	7.8	7.4	5.9	4.9
19	2.9	3.0	3.0	3.1	2.7	2.9	4.4	9.3	8.2	7.6	5.7	4.8
20	3.0	3.0	3.0	3.0	2.8	3.0	4.3	9.1	8.2	7.6	5.7	4.9
21	3.2	3.0	3.0	2.9	2.8	3.0	4.6	8.9	8.3	7.6	5.8	4.9
22	3.2	3.1	3.0	2.6	2.8	3.1	4.6	9.1	8.3	7.5	5.8	4.8
23	3.6	3.2	2.9	2.5	2.8	3.2	4.9	8.7	8.2	7.2	5.6	5.4
24	3.8	3.2	2.9	2.3	2.8	3.6	4.4	8.3	8.3	6.9	5.5	4.8
25	3.8	3.6	2.8	2.2	2.7	3.9	4.1	8.7	8.5	6.3	5.5	4.8
26	3.7	3.9	2.8	2.2	2.6	4.0	4.2	8.4	8.3	5.7	5.6	4.7
27	3.5	3.5	2.8	2.2	2.5	3.9	4.0	10	8.3	5.8	5.6	4.8
28	3.3	3.4	2.8	2.2	2.5	3.8	3.8	9.2	8.2	5.8	5.7	4.8
29	3.1	3.3	2.7	2.4	-----	3.7	3.6	11	8.1	5.9	6.1	4.8
30	2.9	3.2	2.9	2.5	-----	3.5	3.7	11	8.0	5.9	4.5	5.4
31	2.9	-----	2.9	2.7	-----	3.6	-----	11	-----	5.8	4.3	-----
TOTAL	95.6	98.5	90.2	78.5	72.1	99.1	123.2	241.7	255.0	215.2	179.9	144.1
MEAN	3.08	3.28	2.91	2.53	2.58	3.20	4.11	7.80	8.50	6.94	5.80	4.80
MAX	3.8	3.9	3.1	3.1	3.0	4.0	4.9	11	10	8.0	7.4	5.6
MIN	2.7	3.0	2.7	2.2	2.3	2.6	3.6	3.7	7.3	5.7	4.3	4.3
AC-FT	190	195	179	156	143	197	244	479	506	427	357	286

CAL YR 1970 TOTAL 1,753.0 MEAN 4.80 MAX 21 MIN 2.4 AC-FT 3,480
WTR YR 1971 TOTAL 1,693.1 MEAN 4.64 MAX 11 MIN 2.2 AC-FT 3,360

PEAK DISCHARGE (BASE, 15 CFS).--Aug. 6 (1600) 23 cfs (1.94 ft).

GREEN RIVER BASIN

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 downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 miles southwest of Fruitland.

DRAINAGE AREA.--140 sq mi (revised).

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 (from topographic map). Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

AVERAGE DISCHARGE.--37 years, 46.7 cfs (33,830 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 316 cfs May 16 (gage height, 1.80 ft from outside high-water mark); minimum, 8.9 cfs Dec. 12, result of freezeup.

Period of record: Maximum discharge, 1,260 cfs May 4, 1952 (gage height, 2.72 ft, site and datum then in use); maximum gage height, 4.24 ft Feb. 17, 1965, site and datum then in use (backwater from ice); minimum discharge recorded, 3.6 cfs Aug. 9, 10, 1961.

REMARKS.--Records good except those for winter periods, or periods of no gage-height record, which are fair. 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 below gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	24	24	18	26	21	42	110	156	46	23	20
2	22	30	23	17	27	20	40	130	150	45	22	19
3	23	24	21	16	22	20	43	160	140	44	22	19
4	22	27	23	15	20	21	43	200	130	43	29	18
5	22	29	23	15	20	21	46	170	120	39	28	19
6	24	28	20	15	20	22	53	150	118	38	45	19
7	25	27	22	15	21	23	63	150	112	37	30	25
8	24	28	25	16	23	24	59	155	110	35	27	28
9	25	31	23	17	23	25	66	150	108	34	32	22
10	31	31	22	18	27	29	82	140	108	33	31	21
11	28	26	19	18	27	28	90	150	108	33	26	20
12	30	30	14	18	25	29	93	160	108	31	24	19
13	29	28	14	18	26	27	101	190	105	30	23	20
14	27	21	16	20	26	24	103	210	101	29	22	19
15	25	22	17	21	25	25	110	240	98	29	22	19
16	25	27	17	25	24	25	129	270	94	28	22	19
17	25	24	17	27	24	25	143	205	95	27	21	20
18	25	26	17	38	25	24	126	177	91	28	23	21
19	26	24	17	46	24	25	109	159	85	32	23	22
20	26	24	18	48	25	26	99	157	80	36	21	23
21	27	27	19	33	21	28	135	156	73	31	23	23
22	27	27	24	30	25	31	167	162	64	29	25	24
23	26	26	19	31	25	34	195	153	63	29	24	24
24	28	28	19	31	26	36	246	156	59	29	21	24
25	23	33	19	28	25	34	255	173	55	29	21	23
26	26	34	19	29	24	40	236	170	56	27	23	22
27	28	29	18	28	23	50	210	179	54	24	23	23
28	29	28	18	25	22	47	160	180	54	25	25	24
29	28	20	18	23	-----	44	110	172	50	24	29	24
30	27	27	18	24	-----	50	94	170	47	21	31	27
31	23	-----	18	26	-----	54	-----	170	-----	23	23	-----
TOTAL	799	810	601	749	671	932	3,448	5,274	2,792	988	784	650
MEAN	25.8	27.0	19.4	24.2	24.0	30.1	115	170	93.1	31.9	25.3	21.7
MAX	31	34	25	48	27	54	255	270	156	46	45	28
MIN	22	20	14	15	20	20	40	110	47	21	21	18
AC-FT	1,580	1,610	1,190	1,490	1,330	1,850	6,840	10,460	5,540	1,960	1,560	1,290

CAL YR 1970 TOTAL 15,297 MEAN 41.9 MAX 259 MIN 14 AC-FT 30,340
WTR YR 1971 TOTAL 18,498 MEAN 50.7 MAX 270 MIN 14 AC-FT 36,690

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-24	1700	1.70	303	8-06	1800	1.68	288
5-16	Unknown	1.80	316				

NOTE.--No gage-height record Apr. 28 to May 16.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	35	36	25	39	26	48	101	150	51	29	30
2	41	34	38	24	37	25	49	126	135	50	27	27
3	41	32	36	24	36	26	52	160	123	49	27	28
4	40	32	34	23	32	28	50	194	115	48	34	27
5	40	37	41	23	30	34	54	161	113	45	38	28
6	40	36	33	23	29	38	58	142	112	43	37	29
7	42	39	37	23	32	39	66	145	109	42	60	33
8	40	38	48	23	30	40	63	149	105	43	40	37
9	41	35	47	24	33	41	68	144	101	38	39	33
10	46	37	37	25	38	49	80	135	104	41	44	31
11	45	34	31	26	38	49	93	134	107	37	32	30
12	44	36	31	26	34	42	96	162	105	37	29	28
13	44	36	31	26	37	43	104	177	98	34	30	29
14	43	30	31	27	36	32	108	209	95	32	29	28
15	43	30	31	27	32	33	111	243	92	32	27	28
16	42	34	31	30	29	32	128	259	90	31	25	29
17	42	36	30	40	30	35	134	216	89	29	25	31
18	43	37	30	52	31	29	121	178	88	33	25	31
19	43	34	30	60	29	30	109	158	84	36	28	33
20	38	33	30	54	31	33	100	149	78	39	25	35
21	35	38	30	46	25	37	130	147	74	38	26	35
22	35	36	30	38	26	39	160	154	67	35	29	35
23	35	36	30	37	26	44	200	145	66	35	40	34
24	37	37	29	36	28	47	230	142	61	35	28	36
25	37	40	29	37	29	44	245	159	59	34	24	35
26	35	45	29	37	29	45	220	156	57	34	27	35
27	33	41	28	37	29	52	200	171	55	34	27	35
28	32	39	28	38	27	51	140	171	57	33	28	36
29	34	36	28	38	-----	49	90	159	54	35	30	37
30	35	40	27	38	-----	54	87	161	52	30	66	38
31	35	-----	26	38	-----	58	-----	158	-----	28	35	-----
TOTAL	1,222	1,083	1,007	1,025	882	1,224	3,394	5,065	2,695	1,161	1,010	961
MEAN	39.4	36.1	32.5	33.1	31.5	39.5	113	163	89.8	37.5	32.6	32.0
MAX	46	45	48	60	39	58	245	259	150	51	66	38
MIN	32	30	26	23	25	25	48	101	52	28	24	27
AC-FT	2,420	2,150	2,000	2,030	1,750	2,430	6,730	10,050	5,350	2,300	2,000	1,910
CAL YR 1970	TOTAL 19,339		MEAN 53.0	MAX 274	MIN 24	AC-FT 38,360						
WTR YR 1971	TOTAL 20,729		MEAN 56.8	MAX 259	MIN 23	AC-FT 41,120						

GREEN RIVER BASIN

09288150 Cottonwood Creek near Fruitland, Utah

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 upstream from mouth and 15 miles south of Fruitland.

DRAINAGE AREA.--56 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--7 years, 15.6 cfs (11,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,830 cfs Aug. 22 (gage height, 5.40 ft), from rating curve extended above 320 cfs; minimum recorded, 1.0 cfs Nov. 15, but may have been lower during periods of ice effect.

Period of record: Maximum discharge, 1,830 cfs Aug. 22, 1971 (gage height, 5.40 ft), from rating curve extended above 320 cfs; minimum recorded, 0.2 cfs Jan. 24, 1965, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.4	1.9	1.9	3.4	3.6	11	23	64	21	7.5	4.6
2	4.3	4.3	2.0	1.9	3.4	3.7	10	25	55	21	7.4	4.2
3	4.3	4.1	1.9	1.8	3.0	3.8	11	35	51	21	7.6	4.1
4	4.3	4.0	1.8	1.8	2.9	3.9	11	42	50	22	8.0	4.1
5	4.0	4.0	1.8	1.8	2.8	3.9	11	48	51	22	9.2	4.1
6	3.8	4.0	1.8	1.8	2.7	3.8	11	48	48	21	7.7	4.2
7	2.9	3.9	1.8	1.9	2.7	3.8	13	49	46	20	7.6	4.7
8	2.8	3.5	1.8	1.9	2.7	3.8	13	47	45	21	7.7	5.2
9	2.5	3.6	1.8	2.0	2.9	3.9	13	41	44	20	7.7	4.0
10	2.8	3.5	1.9	2.2	3.1	4.6	14	38	43	19	7.4	3.8
11	2.3	3.1	2.0	2.2	3.7	4.6	18	39	43	18	7.3	3.8
12	2.3	3.0	2.0	2.2	3.8	5.6	17	40	40	19	7.0	3.6
13	2.1	2.8	2.0	2.3	4.7	5.2	18	45	36	19	6.8	3.6
14	1.9	2.3	2.0	2.3	4.5	4.3	18	70	33	18	6.3	3.4
15	1.9	2.0	2.0	2.3	4.3	4.3	22	97	31	17	5.6	3.4
16	3.4	2.0	2.0	2.5	3.7	4.5	23	106	31	17	5.1	3.0
17	5.2	2.0	2.0	2.7	4.1	4.5	23	104	32	17	5.1	3.1
18	5.3	2.0	2.0	3.2	3.8	5.0	23	108	31	19	5.4	2.8
19	5.9	2.0	2.0	4.0	3.4	5.4	23	82	28	22	5.4	2.8
20	5.9	2.0	2.0	4.1	3.3	5.8	23	59	27	19	5.1	2.8
21	6.1	2.1	2.0	3.5	3.3	9.4	23	56	26	18	5.1	2.5
22	6.4	2.5	2.0	3.0	3.4	15	23	58	25	17	300	2.5
23	5.8	2.4	2.0	2.9	3.4	20	23	59	25	16	20	2.5
24	6.3	2.4	2.0	2.9	3.5	11	23	54	24	15	11	2.5
25	5.0	2.2	2.0	2.7	3.6	14	23	57	24	15	7.0	2.3
26	4.8	2.1	2.0	2.5	3.6	22	23	63	24	14	6.0	2.3
27	4.6	2.1	2.0	2.4	3.6	12	22	67	23	13	6.4	2.0
28	4.5	2.2	2.0	2.3	3.6	11	22	89	21	12	8.0	2.0
29	4.4	2.0	2.0	2.5	-----	9.5	22	92	21	11	11	1.9
30	4.8	1.9	2.0	2.9	-----	10	22	83	22	10	14	1.9
31	4.9	-----	2.0	3.6	-----	12	-----	69	-----	8.4	8.0	-----
TOTAL	129.8	84.4	60.5	78.0	96.9	233.9	552	1,893	1,064	542.4	533.4	97.7
MEAN	4.19	2.81	1.95	2.52	3.46	7.55	18.4	61.1	35.5	17.5	17.2	3.26
MAX	6.4	4.4	2.0	4.1	4.7	22	23	108	64	22	300	5.2
MIN	1.9	1.9	1.8	1.8	2.7	3.6	10	23	21	8.4	5.1	1.9
AC-FT	257	167	120	155	192	464	1,090	3,750	2,110	1,080	1,060	194

CAL YR 1970 TOTAL 3,354.2 MEAN 9.19 MAX 91 MIN 1.0 AC-FT 6,650
WTR YR 1971 TOTAL 5,366.0 MEAN 14.7 MAX 300 MIN 1.8 AC-FT 10,640

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	1800	1.86	145	8-22	Unknown	5.40	1,830
5-28	1000	1.67	104				

GREEN RIVER BASIN

67

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 downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.5 miles west of Duchesne.

DRAINAGE AREA.--770 sq mi, approximately (includes approximately 170 sq mi tributary to Strawberry Reservoir).

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

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

EXTREMES.--Current year: Maximum discharge, 620 cfs May 17 (gage height, 4.80 ft); maximum gage height, 5.90 ft Jan. 19 (backwater from ice); minimum daily discharge, 40 cfs Feb. 27.

Period of record: Maximum discharge, 1,170 cfs May 9, 1969 (gage height, 5.65 ft); maximum gage height, 5.90 ft Jan. 19, 1971 (backwater from ice); minimum daily discharge, 40 cfs Feb. 27, 1971.

REMARKS.--Records good except those for winter period, which are fair. Several diversions above station for irrigation, including transmountain diversions to The Great Basin. Storage in Strawberry Reservoir began July 14, 1912; water diverted to reservoir from headwaters of Currant Creek through Currant Creek feeder canal since 1936. Diversions from reservoir through Strawberry tunnel to Spanish Fork drainage and from tributaries above reservoir through Hobbie Creek ditch and Strawberry River and Willow Creek ditch to Provo River drainage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	80	73	58	60	43	104	185	356	130	68	85
2	72	79	78	57	55	45	104	213	329	133	60	78
3	76	75	78	57	48	45	109	258	305	126	68	78
4	78	75	73	52	45	48	109	308	288	126	69	78
5	79	85	70	52	45	50	117	310	288	126	82	75
6	82	82	69	52	45	52	130	305	283	122	82	73
7	89	83	73	54	45	55	145	313	278	114	111	80
8	86	85	89	55	50	65	153	323	260	112	98	88
9	86	80	76	57	55	75	159	320	250	112	92	78
10	97	82	71	59	57	85	187	313	248	112	98	67
11	100	79	62	62	58	95	213	318	250	107	82	64
12	98	79	68	65	59	100	208	356	255	103	79	62
13	97	82	49	68	56	107	195	398	243	97	76	67
14	95	72	56	71	55	80	191	447	228	97	63	67
15	98	69	58	76	52	78	191	510	218	94	63	69
16	92	80	60	84	50	78	208	566	210	91	69	71
17	91	82	62	96	48	82	218	566	198	85	67	72
18	89	80	64	110	46	66	210	462	193	94	67	73
19	89	79	64	120	45	71	205	408	195	109	71	69
20	85	76	64	110	45	82	195	371	187	114	71	79
21	79	88	64	105	43	86	183	353	181	115	69	80
22	78	82	63	95	43	91	185	344	171	104	75	78
23	78	79	62	85	43	104	183	344	163	100	114	78
24	82	79	61	75	43	112	198	338	157	100	85	78
25	85	82	60	70	43	97	189	341	151	95	73	75
26	80	92	60	65	42	97	183	350	151	92	78	71
27	78	86	60	65	40	122	179	374	147	91	106	78
28	73	82	62	65	41	112	179	387	147	82	109	75
29	82	78	63	65	-----	101	177	371	139	82	86	78
30	83	78	62	65	-----	106	173	377	133	72	115	79
31	80	-----	60	65	-----	117	-----	374	-----	71	103	-----
TOTAL	2,630	2,410	2,034	2,235	1,357	2,547	5,180	11,203	6,602	3,208	2,549	2,243
MEAN	84.8	80.3	65.6	72.1	48.5	82.2	173	361	220	103	82.2	74.8
MAX	100	92	89	120	60	122	218	566	356	133	115	88
MIN	72	69	49	52	40	43	104	185	133	71	60	62
AC-FT	5,220	4,780	4,030	4,430	2,690	5,050	10,270	22,220	13,100	6,360	5,060	4,450

CAL YR 1970 TOTAL 42,832 MEAN 117 MAX 544 MIN 49 AC-FT 84,960
WTR YR 1971 TOTAL 44,198 MEAN 121 MAX 566 MIN 40 AC-FT 87,670

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

GREEN RIVER BASIN

09288900 Sowers Creek near Duchesne, Utah

LOCATION.--Lat 39-59'22", long 110°27'33", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.6 S., R.5 W., Uintah meridian, Duchesne County, Ashley National Forest, on left bank 0.3 mile upstream from Ashley National Forest boundary, 5 miles upstream from mouth of Tabby Canyon, and 12 miles south of Duchesne.

DRAINAGE AREA.--43 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--7 years, 4.26 cfs (3,090 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4.0 cfs May 8 (gage height 0.56 ft); maximum gage height, 1.35 ft Jan. 23 (backwater from ice); minimum discharge, 0.39 cfs Sept. 18, 19, 28.

Period of record: Maximum discharge, 202 cfs Aug. 3, 1966 (gage height 5.41 ft), from rating curve extended above 35 cfs; no flow for part of winter period 1964, 1965.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.98	.55	.47	1.2	.60	1.0	1.1	1.6	1.2	.83	.90
2	.90	.90	.54	.47	1.6	.65	1.1	.98	1.6	1.2	.90	.83
3	.90	.95	.55	.47	.90	.66	1.2	.98	1.4	1.1	.90	.98
4	.90	1.0	.55	.45	.80	.67	1.3	1.1	1.4	1.2	.98	.90
5	.90	1.1	.55	.43	.61	.68	1.3	1.1	1.4	1.2	.98	.90
6	1.8	1.3	.60	.42	.65	.61	1.3	1.3	1.4	1.1	1.3	.76
7	1.3	1.2	.60	.43	.65	.68	1.2	1.4	1.3	1.1	1.4	.90
8	.98	.98	.65	.44	.65	.68	1.2	2.2	1.3	1.2	1.2	.83
9	1.3	1.3	.65	.45	.70	.68	1.2	1.7	1.4	1.1	1.2	.83
10	1.4	.90	.65	.48	.70	.61	1.1	1.7	1.4	1.1	1.1	.76
11	1.2	.90	.65	.52	.80	.61	1.1	1.6	1.3	1.1	1.1	.68
12	1.2	.90	.60	.52	.83	.62	1.1	1.4	1.6	1.1	1.1	.68
13	1.2	.90	.55	.55	1.2	.62	1.1	1.4	1.6	1.1	1.1	.68
14	.98	.90	.50	.56	.98	.62	.98	1.4	1.6	1.1	.98	.68
15	1.0	.90	.50	.58	.90	.62	.98	1.4	1.4	1.1	.98	.68
16	1.0	.85	.47	.60	.75	.65	.98	1.6	1.3	.98	1.1	.68
17	.98	.84	.54	.60	.61	.70	.98	1.6	1.2	1.1	1.2	.83
18	1.0	.82	.54	.65	.60	.65	1.3	1.6	1.2	1.4	1.1	.90
19	1.2	.82	.54	.65	.60	.60	1.7	1.7	1.2	1.4	1.1	.90
20	1.0	.70	.54	.65	.60	.55	1.6	1.7	1.2	2.0	1.2	.98
21	1.2	.61	.54	.70	.60	.65	1.3	1.7	1.2	2.5	1.2	.98
22	1.3	.68	.54	.70	.60	.65	1.2	1.7	1.1	1.8	1.3	.98
23	1.0	.83	.54	.70	.60	.63	1.6	1.8	1.1	1.6	1.3	.98
24	1.2	.98	.52	.70	.60	.62	1.6	1.7	1.1	1.1	1.2	.98
25	1.0	.90	.50	.76	.60	.62	1.6	1.6	1.1	1.1	1.2	.98
26	.95	.85	.48	1.2	.60	.65	1.4	1.6	.98	.98	1.7	.98
27	.92	.80	.46	1.0	.60	.75	1.3	1.4	1.1	.98	1.2	.98
28	.90	.70	.47	1.0	.60	.80	1.3	1.4	1.1	.98	1.2	.90
29	.90	.65	.45	1.2	-----	.80	1.2	1.4	1.1	.90	1.1	.90
30	.98	.60	.47	1.6	-----	.80	1.1	1.7	1.1	.90	1.1	1.3
31	.98	-----	.47	1.7	-----	.80	-----	1.7	-----	.90	1.1	-----
TOTAL	33.37	26.74	16.76	21.65	21.13	20.53	37.32	46.66	38.78	37.62	35.35	26.24
MEAN	1.08	.89	.54	.70	.75	.66	1.24	1.51	1.29	1.21	1.14	.87
MAX	1.8	1.3	.65	1.7	1.6	.80	1.7	2.2	1.6	2.5	1.7	1.3
MIN	.90	.60	.45	.42	.60	.55	.98	.98	.98	.90	.83	.68
AC-FT	66	53	33	43	42	41	74	93	77	75	70	52

CAL YR 1970 TOTAL 641.41 MEAN 1.76 MAX 4.4 MIN .45 AC-FT 1,270
WTR YR 1971 TOTAL 362.15 MEAN .99 MAX 2.5 MIN .42 AC-FT 718

PEAK DISCHARGE (BASE, 35 CFS).--No peak above base.

NOTE.--No gage-height record Mar. 6 to Apr. 9.

GREEN RIVER BASIN

69

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 upstream from head of Moon Lake at maximum stage, 2 miles upstream from Brown Duck Creek, 16 miles north-east of Mountain Home.

DRAINAGE AREA.--78 sq mi, 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 (from topographic map). April 1933 to September 1934, at site 2.5 miles upstream at different datum. July 13, 1942, to July 26, 1949, at datum 1 ft higher.

AVERAGE DISCHARGE.--21 years, 115 cfs (83,320 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,070 cfs June 17 (gage height, 4.73 ft) from rating curve extended above 1,200 cfs; minimum observed, 17 cfs Mar. 23 (discharge measurement).
Period of record: Maximum discharge, 2,700 cfs June 26, 1944 (gage height, 5.27 ft, present datum), from rating curve extended above 700 cfs; minimum daily recorded, 13 cfs Apr. 14, 1933.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	37	32	26	26	20	29	74	258	520	97	80
2	50	36	31	26	26	21	29	96	232	515	93	75
3	50	36	31	26	26	21	28	132	225	495	91	73
4	49	36	31	25	25	21	34	155	221	455	116	71
5	48	36	30	24	24	21	33	132	228	420	122	68
6	49	35	30	23	24	22	34	118	236	380	113	65
7	49	36	30	23	24	22	35	112	301	340	103	85
8	47	37	29	23	23	22	37	105	422	328	116	76
9	50	38	29	24	23	22	42	100	492	311	118	66
10	51	35	29	24	23	22	51	106	576	283	95	61
11	52	39	29	25	24	21	59	107	482	256	87	58
12	53	35	28	25	24	21	64	120	398	235	84	55
13	52	35	28	26	24	21	70	127	445	232	80	52
14	48	35	27	26	24	21	74	160	654	226	75	50
15	44	34	27	27	24	21	79	194	986	211	73	49
16	44	32	26	27	23	20	88	218	1,290	200	71	47
17	43	30	27	27	23	19	96	198	1,460	203	73	49
18	43	31	28	26	23	19	85	168	1,520	205	95	49
19	43	31	28	26	23	18	73	149	1,400	198	76	49
20	42	31	28	26	23	19	67	134	1,350	185	76	47
21	43	31	28	26	22	19	63	131	1,340	170	95	47
22	43	30	28	26	22	19	61	141	1,320	163	105	47
23	41	30	28	27	22	19	60	137	1,270	163	91	46
24	44	31	29	27	22	19	57	144	1,230	158	85	45
25	41	31	29	27	22	19	55	200	1,060	143	85	45
26	41	31	28	27	21	22	53	261	944	133	87	43
27	41	31	28	27	21	24	54	352	791	124	82	42
28	40	31	28	27	21	24	53	404	701	118	82	41
29	40	31	28	27	-----	26	54	386	647	111	105	42
30	39	32	27	27	-----	28	61	342	570	107	97	46
31	38	-----	26	26	-----	29	-----	300	-----	103	87	-----
TOTAL	1,410	1,004	885	799	652	662	1,678	5,503	23,049	7,691	2,855	1,669
MEAN	45.5	33.5	28.5	25.8	23.3	21.4	55.9	178	768	248	92.1	55.6
MAX	53	39	32	27	26	29	96	404	1,520	520	122	85
MIN	38	30	26	23	21	18	28	74	221	103	71	41
AC-FT	2,800	1,990	1,760	1,580	1,290	1,310	3,330	10,920	45,720	15,260	5,660	3,310

CAL YR 1970 TOTAL 36,965 MEAN 101 MAX 721 MIN 22 AC-FT 73,320
WTR YR 1971 TOTAL 47,857 MEAN 131 MAX 1,520 MIN 18 AC-FT 94,920

PEAK DISCHARGE (BASE, 1,000 CFS).--June 17 (2000) 2,070 cfs (4.73 ft).

NOTE.--No gage-height record Feb. 10 to Mar. 23.

GREEN RIVER BASIN

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 downstream from Brown Duck Creek, 11 miles upstream from Yellowstone River, and 12.5 miles northwest of Mountain Home.

DRAINAGE AREA.--108 sq mi.

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, 35,760 acre-ft June 25 to July 1 (elevation, 8,137.0 ft); minimum observed, 3,360 acre-ft Oct. 14.

Period of record: Maximum contents observed, 37,560 acre-ft July 10, 11, 1950 (elevation, 8,139.30 ft); minimum observed, 226 acre-ft 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 between elevations 8,072.00 (crest of original outlet of lake, about 2,000 ft upstream from dam) and 8,137.00 ft (top of spillway gates). Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,064.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Dead storage below sill of outlet, 11,690 acre-ft. Total dead storage, 13,740 acre-ft. 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)

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

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,360	4,940			10,800				8,590	35,760	29,400	
2		5,010				12,380					28,890	
3								13,100	8,460			
4												
5												
6	3,740							12,710	7,760			15,130
7		4,670							7,670			
8									7,780			
9									7,910		26,130	
10												
11	3,490							11,260			25,240	
12									11,500			
13								10,500		35,720	24,210	
14	3,360								13,150	35,380		
15									15,300		23,610	
16									16,420			
17									18,340			
18									19,710			
19	3,850							9,020	23,670	34,000		
20									25,650			10,380
21									28,030			
22									30,450			9,770
23								7,620	31,570		20,090	
24									35,220	32,640		
25									35,760			
26	4,360							6,930	35,760	31,970		8,640
27								6,930				
28					a12,270			7,430				
29					-----							
30		6,440			-----		13,710	8,300	35,760			8,150
31	a4,840	-----	8,750	a10,740	-----	13,880	-----	8,740	-----	a29,360	20,090	-----
(+)	-----	8,089.9	8,094.8	-----	-----	8,104.4	8,104.1	8,094.7	8,137.0	-----	8,114.8	8,093.5
(#)	+310	+1,600	+2,350	+1,950	+1,530	+1,610	-170	-4,970	+27,020	-6,400	-9,270	-11,940

CAL YR 1970.....# -1,570
WTR YR 1971.....# +3,620

+ Elevation, in feet at end of month.

Change in contents, in acre-ft.

a No record of elevation; contents interpolated.

GREEN RIVER BASIN

71

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 downstream from Moon Lake Dam, 2 miles downstream from Brown Duck Creek, and 12 miles northwest of Mountain Home.

DRAINAGE.--110 sq mi, 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 (by barometer). Prior to April 1942, at damsite 2,000 ft upstream at different datum.

AVERAGE DISCHARGE.--29 years (1942-1971), 129 cfs (93,460 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,460 cfs June 26 (gage height, 4.42 ft); no flow at times when reservoir gates were closed.

Period of record: Maximum discharge recorded, 2,180 cfs June 19, 1949, from rating curve extended above 860 cfs; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates were closed.

REMARKS.--Records excellent. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	0					0	195	309	519	319	258
2	128	50					0	192	308	515	313	258
3	128	82					0	186	365	514	330	259
4	127	82					0	186	395	455	326	262
5	127	82					0	186	393	378	321	262
6	101	82					0	204	392	371	315	259
7	90	39					0	280	391	367	311	257
8	90	0					0	272	345	346	307	258
9	90	0					0	276	188	294	302	257
10	90	0					0	276	139	262	298	255
11	90	0					0	307	141	246	290	254
12	90	0					0	328	142	311	283	253
13	90	0					0	327	143	329	272	251
14	29	0					0	355	146	379	289	251
15	0	0					0	355	173	357	303	249
16	0	0					0	353	179	353	309	249
17	0	0					34	354	188	353	308	248
18	0	0					95	354	195	358	306	246
19	0	0					106	349	201	352	305	245
20	0	0					139	344	191	321	304	244
21	0	0					160	340	183	323	304	243
22	0	0					171	337	187	322	302	214
23	0	0					171	348	192	321	300	193
24	0	0					171	394	201	319	300	192
25	0	0					171	390	586	315	299	191
26	0	0					171	386	989	316	299	177
27	0	0					171	385	903	338	296	128
28	0	0					171	250	655	333	295	129
29	0	0					171	193	703	329	294	128
30	0	0					189	262	557	324	294	121
31	0	-----			-----		-----	308	-----	324	290	-----
TOTAL	1,398	417	0	0	0	0	2,091	9,272	10,080	10,944	9,384	6,791
MEAN	45.1	13.9	0	0	0	0	69.7	299	336	353	303	226
MAX	128	82	0	0	0	0	189	394	989	519	330	262
MIN	0	0	0	0	0	0	0	186	139	246	272	121
AC-FT	2,770	827	0	0	0	0	4,150	18,390	19,990	21,710	18,610	13,470

CAL YR 1970 TOTAL 42,010.00 MEAN 115 MAX 499 MIN 0 AC-FT 83,330
WTR YR 1971 TOTAL 50,377.00 MEAN 138 MAX 989 MIN 0 AC-FT 99,920

GREEN RIVER BASIN

09292500 Yellowstone River near Altonah, Utah

LOCATION.--Lat 40°30'43", long 110°20'27", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.1 N., R.4 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1.5 miles downstream from power plant of Moon Lake Electric Association, Inc., 2 miles downstream from Hell Canyon, 8.2 miles northwest of Altonah.

DRAINAGE AREA.--131 sq mi.

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 (from river-profile map).

AVERAGE DISCHARGE.--27 years, 141 cfs (102,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,440 cfs June 18 (gage height, 3.40 ft); minimum observed, 32 cfs (discharge measurement), result of freezeup.

Period of record: Maximum discharge, 1,880 cfs June 19, 1949 (gage height, 4.55 ft); minimum observed, 26 cfs Feb. 24, 1960 (discharge measurement), result of freezeup.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some diurnal fluctuation caused by power plant 1.5 miles upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	67	64	55	51	43	51	70	256	481	160	147
2	92	63	63	54	50	44	56	82	236	442	158	138
3	92	64	61	52	48	45	56	106	223	437	156	138
4	90	64	65	50	50	45	56	127	217	406	160	138
5	90	67	67	48	51	45	56	119	220	377	178	129
6	92	65	65	46	49	45	56	112	223	363	178	125
7	92	68	64	47	48	45	57	115	263	337	170	136
8	87	65	60	48	48	46	55	113	382	324	165	136
9	94	64	59	49	49	46	53	104	459	320	165	123
10	94	67	57	49	50	47	56	106	577	296	156	117
11	90	61	59	50	50	48	60	106	505	274	147	112
12	95	67	55	50	50	49	64	117	410	259	144	110
13	95	63	54	50	50	47	64	125	431	252	140	106
14	90	60	55	50	49	46	68	142	607	252	136	102
15	83	62	58	50	48	45	70	163	859	242	134	100
16	85	61	58	51	47	45	73	181	1,020	230	134	99
17	83	61	56	52	47	45	79	173	1,150	230	140	99
18	82	61	56	53	47	44	79	156	1,240	263	168	97
19	83	61	56	53	46	45	71	144	1,130	259	170	97
20	80	63	56	53	46	46	68	136	1,150	252	168	94
21	83	65	57	54	46	46	65	129	1,130	226	160	94
22	83	60	58	54	45	46	64	142	1,160	220	168	92
23	76	59	58	54	45	46	67	147	1,150	217	160	88
24	85	59	58	54	45	46	67	140	1,060	220	154	87
25	71	60	58	54	45	48	63	168	915	191	151	85
26	70	60	58	52	44	50	59	211	835	181	151	83
27	70	60	58	52	44	53	57	304	746	170	149	80
28	76	59	57	52	44	51	56	386	613	163	151	80
29	74	56	57	52	-----	52	56	363	601	156	170	79
30	71	61	56	52	-----	56	60	324	523	154	170	83
31	70	-----	56	52	-----	53	-----	292	-----	165	156	-----
TOTAL	2,612	1,873	1,819	1,592	1,332	1,458	1,862	5,103	20,291	8,359	4,867	3,194
MEAN	84.3	62.4	58.7	51.4	47.6	47.0	62.1	165	676	270	157	106
MAX	95	68	67	55	51	56	79	386	1,240	481	178	147
MIN	70	56	54	46	44	43	51	70	217	154	134	79
AC-FT	5,180	3,720	3,610	3,160	2,640	2,890	3,690	10,120	40,250	16,580	9,650	6,340

CAL YR 1970 TOTAL 44,427 MEAN 122 MAX 598 MIN 37 AC-FT 88,120
WTR YR 1971 TOTAL 54,362 MEAN 149 MAX 1,240 MIN 43 AC-FT 107,800

PEAK DISCHARGE (BASE, 700 CFS).--June 18 (0400) 1,440 cfs (3.40 ft).

NOTE.--No gage-height record Dec. 12 to Mar. 24.

GREEN RIVER BASIN

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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 downstream from Lake Fork.

DRAINAGE AREA.--2,750 sq mi, 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 above mean sea level. Prior to Oct. 14, 1933, nonrecording gages at several sites within half a mile of present site at various datums.

AVERAGE DISCHARGE.--63 years (1899-1902, 1911-71), 535 cfs (387,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,900 cfs June 18 (gage height, 6.48 ft; minimum, 24 cfs Oct. 2, 5-7.

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

REMARKS.--Records good except those for December and January, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	89	31	55	340	200	108	45	1,310	849	32	37
2	27	92	31	55	270	192	144	43	1,110	751	31	37
3	26	90	30	56	260	227	158	43	1,000	634	31	37
4	26	90	30	58	240	270	158	60	933	512	31	37
5	25	90	29	55	236	236	141	53	706	475	31	37
6	25	106	29	52	274	200	192	45	706	455	32	37
7	40	190	29	52	215	211	203	45	652	410	31	39
8	77	193	29	52	283	223	203	65	652	359	32	39
9	77	181	30	54	279	219	192	81	863	350	32	39
10	79	173	30	55	279	232	155	96	1,190	410	32	39
11	78	147	31	58	287	279	215	84	1,740	314	32	37
12	78	141	31	60	274	279	346	81	1,480	400	32	35
13	77	160	31	65	270	283	93	84	1,220	151	31	35
14	77	154	31	68	274	261	37	296	1,310	99	31	35
15	77	110	31	72	274	253	37	475	1,840	78	29	34
16	78	118	30	75	261	253	41	640	2,640	60	29	32
17	77	135	31	80	253	265	41	700	3,180	55	32	31
18	77	65	32	90	257	253	41	598	3,530	53	34	31
19	79	48	34	100	274	253	51	568	3,420	173	34	31
20	79	46	32	110	253	265	65	430	3,470	144	32	32
21	79	46	33	130	244	265	41	270	3,180	131	32	43
22	81	46	34	150	211	270	43	173	3,130	111	35	43
23	83	46	35	170	232	279	43	180	3,220	60	35	43
24	84	46	37	200	253	274	51	184	3,070	45	35	43
25	84	41	38	230	240	257	53	227	2,630	43	34	43
26	84	41	39	300	200	240	169	405	2,790	41	34	43
27	87	39	42	330	203	232	203	415	2,540	37	34	45
28	87	35	45	340	219	253	196	980	1,860	37	34	45
29	87	33	47	350	-----	244	176	1,520	1,390	35	35	45
30	88	33	50	350	-----	118	45	1,710	1,060	34	37	47
31	89	-----	52	350	-----	49	-----	1,580	-----	32	37	-----
TOTAL	2,155	2,824	1,064	4,222	7,155	7,335	3,641	12,176	57,822	7,338	1,013	1,151
MEAN	69.5	94.1	34.3	136	256	237	121	393	1,927	237	32.7	38.4
MAX	89	193	52	350	340	283	346	1,710	3,530	849	37	47
MIN	25	33	29	52	200	49	37	43	652	32	29	31
AC-FT	4,270	5,600	2,110	8,370	14,190	14,550	7,220	24,150	114,700	14,550	2,010	2,280
CAL YR 1970	TOTAL	48,926.7	MEAN	134	MAX	1,400	MIN	4.3	AC-FT	97,050		
WTR YR 1971	TOTAL	107,896.0	MEAN	296	MAX	3,530	MIN	25	AC-FT	214,000		

GREEN RIVER BASIN

09297000 Uinta River near Neola, Utah

LOCATION.--Lat 40°32'08", long 110°03'46", in SE¼SW¼SW¼ sec.25, T.2 N., R.2 W., Uintah meridian, Duchesne County, Uintah and Ouray Indian Reservation, on left bank 1,000 ft downstream from Uinta Power & Light Co. powerplant, 0.8 of a mile upstream from Pole Creek, and 7 miles north of Neola.

DRAINAGE AREA.--160 sq mi, 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 (from river-profile map). Prior to Aug. 4, 1951, water-stage recorder, or nonrecording gages at several sites within 2,000 ft of present site at various datums. Aug. 4, 1951, to June 11, 1965 water-stage recorder at site 50 ft upstream at various datums.

AVERAGE DISCHARGE.--43 years (1925-26, 1929-71), 181 cfs (131,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,480 cfs June 18 (gage height, 5.00 ft); minimum daily, 28 cfs Mar. 11, 12, result of freezeup or power plant regulation.

Period of record: Maximum discharge, about 5,000 cfs June 11, 1965 (gage height, 7.00 ft from flood marks, site and datum then in use), from rating curve extended above 1,200 cfs; minimum recorded, 22 cfs Apr. 13, 1970, result of freezeup or power plant 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 above station. Uinta power canal diverts from river 6 miles 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 half a mile below station. Considerable spill occurs at times when 1 of 2 power units is not operating. Discharge measurements, in cubic feet per second, during the water year 1971, of Pole Creek canal are as follows:

Oct. 2	4.3	Apr. 14	5.6
Nov. 9	3.6	May 12	10
Dec. 10	5.4	June 15	7.0
Jan. 18	1.0	July 20	8.0
Mar. 23	3.3	Aug. 5	8.6
		Sept. 14	6.1

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	98	73	61	54	47	49	84	403	394	275	255
2	141	95	84	58	56	46	45	108	375	388	270	224
3	141	87	76	56	54	48	52	133	382	388	290	228
4	137	84	73	54	53	52	47	180	361	364	285	220
5	133	95	76	53	52	48	47	162	354	358	315	224
6	137	92	73	54	50	47	49	150	361	346	295	208
7	141	95	70	55	53	48	54	167	426	340	295	204
8	130	95	73	56	54	48	54	158	630	335	300	236
9	137	90	73	56	53	49	54	146	724	335	295	220
10	137	92	73	56	52	49	61	137	812	325	290	192
11	130	84	65	57	49	28	65	133	790	315	285	172
12	141	90	64	57	49	28	68	154	680	305	285	164
13	137	87	63	58	49	33	70	167	801	305	270	157
14	130	76	63	60	52	33	76	190	1,060	305	232	151
15	119	84	65	63	52	36	81	247	1,520	310	240	148
16	119	87	65	66	49	43	87	292	1,410	300	245	142
17	116	81	68	74	49	36	92	286	1,330	295	260	145
18	116	78	65	75	49	58	98	247	1,750	330	260	145
19	116	78	63	65	52	47	87	220	1,170	358	255	151
20	112	78	64	56	54	45	84	210	1,010	352	250	145
21	119	81	64	54	56	42	81	205	972	335	245	151
22	123	81	61	56	55	47	87	225	1,160	330	245	142
23	109	81	61	54	53	54	84	220	1,090	325	232	145
24	123	78	61	54	52	59	90	210	972	320	240	142
25	102	78	61	59	51	56	84	247	740	300	236	136
26	95	81	60	54	49	61	73	347	602	290	224	136
27	95	81	62	52	52	68	68	508	538	280	232	133
28	95	78	63	54	50	63	68	640	467	255	250	127
29	105	76	63	54	-----	56	65	600	454	265	250	115
30	102	81	63	54	-----	61	68	526	418	255	280	118
31	102	-----	63	54	-----	61	-----	474	-----	265	270	-----
TOTAL	3,779	2,542	2,071	1,789	1,453	1,497	2,088	7,773	23,762	9,968	8,196	5,076
MEAN	122	84.7	66.8	57.7	51.9	48.3	69.6	251	792	322	264	169
MAX	141	98	84	75	56	68	98	640	1,750	394	315	255
MIN	95	76	60	52	49	28	45	84	354	255	224	115
AC-FT	7,500	5,040	4,110	3,550	2,880	2,970	4,140	15,420	47,130	19,770	16,260	10,070

CAL YR 1970 TOTAL 65,695 MEAN 180 MAX 990 MIN 47 AC-FT 130,300
WTR YR 1971 TOTAL 69,994 MEAN 192 MAX 1,750 MIN 28 AC-FT 138,800

PEAK DISCHARGE (BASE, 700 CFS).--June 18 (0300) 2,480 cfs (5.00 ft)

GREEN RIVER BASIN

75

09298000 Farm Creek near Whiterocks, Utah

LOCATION.--Lat 40°34'03", long 109°57'39", in SE¼NW¼SE¼ sec.14, T.2 N., R.1 W., Uintah meridian, Uintah County, Ashley National Forest, on right bank 0.7 mile upstream from Hominy Creek and 7 miles northwest of Whiterocks.

DRAINAGE AREA.--14.9 sq mi.

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

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

AVERAGE DISCHARGE.--22 years, 6.20 cfs (4,490 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 79 cfs May 27 (gage height, 2.88 ft); minimum daily, 2.4 cfs Sept. 15-21.
Period of record: Maximum discharge, 350 cfs June 3, 1968 (gage height, 3.95 ft), from rating curve extended above 140 cfs; minimum, 1.2 cfs Apr. 2, 1965.

REMARKS.--Records good.

REVISIONS.--WSP 2125: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	3.0	3.0	3.0	2.9	2.8	3.1	29	6.0	3.0	2.6
2	3.0	3.2	3.0	3.0	3.0	2.9	2.7	3.2	27	5.7	3.0	2.6
3	3.0	3.1	3.0	3.0	3.0	2.9	2.7	3.4	26	5.4	3.0	2.7
4	3.0	3.0	3.0	3.0	3.0	2.9	2.7	3.4	25	5.1	3.0	2.6
5	3.0	3.1	3.0	3.0	3.0	2.9	2.7	3.4	25	4.9	3.0	2.6
6	3.0	3.1	3.0	3.0	3.0	2.8	2.7	3.8	27	4.8	3.0	2.6
7	3.0	3.2	3.0	3.0	3.0	2.8	2.7	4.2	28	4.7	3.0	2.7
8	3.0	3.1	3.0	3.0	3.0	2.8	2.7	4.3	32	4.5	3.0	2.6
9	3.0	3.0	3.0	3.0	3.0	2.8	2.7	4.3	31	4.4	2.8	2.6
10	3.0	3.0	3.1	3.0	3.0	2.8	2.7	4.4	27	4.3	2.8	2.6
11	3.0	3.0	3.0	3.0	3.0	2.8	2.7	4.5	26	4.2	2.8	2.6
12	3.0	3.0	3.0	3.0	3.0	2.8	2.7	4.9	24	3.9	2.8	2.5
13	3.0	3.0	3.0	3.0	3.0	2.8	2.7	6.5	21	3.6	2.8	2.5
14	3.0	3.0	3.0	3.0	2.9	2.8	2.7	8.5	20	3.6	2.8	2.5
15	3.0	3.0	3.0	3.0	2.9	2.8	2.8	11	19	3.5	2.7	2.4
16	3.0	3.0	3.0	3.0	2.9	2.8	2.8	19	17	3.4	2.7	2.4
17	3.0	3.0	3.1	3.0	2.9	2.8	2.9	18	15	3.4	2.7	2.4
18	3.0	3.0	3.0	3.0	2.9	2.8	2.9	14	14	3.4	2.7	2.4
19	3.0	3.0	3.0	3.0	2.9	2.8	2.9	13	12	3.4	2.7	2.4
20	3.0	3.0	3.0	3.0	2.9	2.8	2.8	13	11	3.4	2.8	2.4
21	3.0	3.0	3.0	3.0	2.9	2.8	2.9	14	10	3.4	2.7	2.4
22	3.3	3.0	3.0	3.0	2.9	2.8	3.2	21	9.5	3.5	2.6	2.6
23	3.3	3.0	3.0	3.0	2.9	2.8	3.3	19	8.8	3.4	2.8	2.6
24	3.3	3.0	3.0	3.0	2.9	2.8	3.2	21	8.4	3.4	2.7	2.6
25	3.2	3.2	3.0	3.0	2.9	2.8	3.2	30	7.4	3.4	2.6	2.6
26	3.2	3.0	3.0	3.0	2.9	2.8	3.1	39	7.0	3.3	2.6	2.6
27	3.2	3.0	3.0	3.0	2.9	2.8	3.0	49	6.8	3.3	2.6	2.6
28	3.2	3.0	3.0	3.0	2.9	2.8	3.0	47	6.6	3.2	2.6	2.6
29	3.2	3.0	3.0	3.0	-----	2.8	3.0	38	6.4	3.2	2.8	2.6
30	3.2	3.0	3.0	3.0	-----	2.8	3.0	36	6.2	3.2	2.7	2.7
31	3.2	-----	3.0	3.0	-----	2.8	-----	33	-----	3.1	2.7	-----
TOTAL	95.3	91.2	93.2	93.0	82.5	87.3	85.9	496.9	533.1	122.0	86.5	76.6
MEAN	3.07	3.04	3.01	3.00	2.95	2.82	2.86	16.0	17.8	3.94	2.79	2.55
MAX	3.3	3.2	3.1	3.0	3.0	2.9	3.3	49	32	6.0	3.0	2.7
MIN	3.0	3.0	3.0	3.0	2.9	2.8	2.7	3.1	6.2	3.1	2.6	2.4
AC-FT	189	181	185	184	164	173	170	986	1,060	242	172	152
CAL YR 1970	TOTAL 1,629.8 MEAN 4.47 MAX 33 MIN 2.6 AC-FT 3,230											
WTR YR 1971	TOTAL 1,943.5 MEAN 5.32 MAX 49 MIN 2.4 AC-FT 3,850											

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	NOTE.--No gage-height record Feb. 2 to Apr. 14.
5-16	0500	2.33	20	6-8	2200	2.55	37	
5-27	2100	2.88	79					

GREEN RIVER BASIN

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 of a mile upstream from heading of United States Whiterocks Canal, and 6.5 miles north of Whiterocks.

DRAINAGE AREA.--113 sq mi.

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 (from river-profile map). Prior to Oct. 16, 1930, nonrecording gages at several sites within 1 mile of present site at various datums. Oct. 16, 1930, to Nov. 7, 1949, water-stage recorder at site 100 ft downstream at different datum.

AVERAGE DISCHARGE.--64 years (1899-1903, 1908-10, 1913-71, 125 cfs (90,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,600 cfs June 15 (gage height, 3.95 ft); minimum recorded, 16 cfs Apr. 2, result of freeze-up.

Period of record: Maximum discharge, 2,750 cfs June 20, 21, 1922 (gage height, 5.40 ft, site and datum then in use), from rating curve extended above 1,700 cfs; minimum recorded, 10 cfs Dec. 5, 1933.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	44	35	31	28	26	26	47	292	284	174	117
2	70	44	38	30	28	26	26	60	280	276	174	110
3	68	41	35	29	28	26	27	89	288	264	174	110
4	67	38	35	28	28	27	26	113	272	248	181	107
5	66	44	34	28	26	27	26	102	264	237	188	97
6	66	42	34	28	25	26	27	102	272	221	181	92
7	69	43	34	29	25	26	29	163	341	214	177	107
8	64	42	35	30	25	26	27	142	489	237	170	126
9	70	42	35	31	25	27	27	134	560	225	167	107
10	68	41	35	31	25	27	30	133	545	214	160	97
11	64	39	34	31	26	28	32	131	538	199	160	94
12	72	40	33	32	26	27	33	141	470	191	164	90
13	68	39	32	31	27	25	34	157	538	195	157	92
14	61	35	31	30	27	25	37	183	638	191	150	88
15	55	43	30	31	26	25	37	226	1,260	188	147	86
16	56	43	33	32	28	26	40	258	1,080	181	147	81
17	55	40	33	33	27	25	45	242	939	184	157	81
18	53	39	33	31	26	23	44	208	827	214	150	84
19	53	39	33	30	26	24	41	177	866	280	147	84
20	51	39	33	30	26	25	40	137	798	268	144	79
21	54	39	32	30	26	26	40	143	697	244	138	77
22	62	38	30	29	26	25	40	178	679	233	135	75
23	50	35	31	28	27	26	41	176	630	221	141	70
24	60	34	31	28	27	26	41	174	568	225	126	66
25	47	35	31	29	26	25	38	239	496	210	117	60
26	46	36	31	30	26	28	35	323	439	206	112	58
27	46	35	31	30	26	32	35	428	390	199	112	57
28	50	35	31	29	84	30	34	496	360	195	112	55
29	49	34	31	28	-----	28	35	439	336	188	138	55
30	47	34	31	28	-----	30	37	380	314	184	132	58
31	46	-----	31	28	-----	30	-----	336	-----	181	126	-----
TOTAL	1,825	1,172	1,016	923	796	823	1,030	6,257	16,466	6,797	4,658	2,560
MEAN	58.9	39.1	32.8	29.8	28.4	26.5	34.3	202	549	219	150	85.3
MAX	72	44	38	33	84	32	45	496	1,260	284	188	126
MIN	46	34	30	28	25	23	26	47	264	181	112	55
AC-FT	3,620	2,320	2,020	1,830	1,580	1,630	2,040	12,410	32,660	13,480	9,240	5,080

CAL YR 1970 TOTAL 43,404 MEAN 119 MAX 637 MIN 23 AC-FT 86,090
WTR YR 1971 TOTAL 44,323 MEAN 121 MAX 1,260 MIN 23 AC-FT 87,910

PEAK DISCHARGE (BASE, 600 CFS).--June 15 (2400) 1,600 cfs (3.95 ft).

GREEN RIVER BASIN

77

09302000 Duchesne River near Randlett, Utah

LOCATION.--Lat 40°12'57", long 109°47'05", in SE¼SE¼SE¼ sec.17, T.3 S., R.2 E., Uintah meridian, Uintah County, on right bank 0.2 mile downstream from Uinta River, 1.2 miles southeast of Randlett, and 6.5 miles southeast of Fort Duchesne.

DRAINAGE AREA.--3,920 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--29 years, 593 cfs (429,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,790 cfs June 18 (gage height, 6.54 ft); minimum daily, 30 cfs Aug. 7.
Period of record: Maximum discharge, 10,300 cfs June 13, 1965 (gage height, 8.33 ft site and datum then in use); maximum gage height, 9.03 ft Feb. 13, 1962 site and datum then in use (backwater from ice); minimum discharge, 2.2 cfs Aug. 12, 1961.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. 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 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	197	117	155	810	315	116	105	1,460	1,080	40	140
2	98	186	106	160	790	310	201	88	1,210	957	41	116
3	94	173	104	168	750	350	212	70	1,110	836	40	110
4	105	159	88	172	730	410	201	84	1,020	677	32	110
5	117	164	91	178	700	450	198	123	850	634	34	114
6	122	175	96	170	640	350	195	120	808	587	33	132
7	127	256	102	165	660	320	232	116	806	512	30	188
8	142	282	121	163	680	320	229	120	679	480	32	215
9	146	264	115	160	680	325	240	290	1,070	428	38	206
10	151	256	125	162	670	350	243	246	1,370	450	39	155
11	142	241	115	168	660	370	243	214	2,150	386	37	145
12	141	235	94	178	650	400	340	174	1,950	439	36	135
13	153	249	102	195	648	420	240	160	1,560	254	36	107
14	128	254	104	240	640	400	101	233	1,730	164	36	94
15	124	234	102	260	620	360	80	407	2,830	142	43	88
16	119	230	105	270	600	340	84	598	4,070	114	49	88
17	129	242	108	280	560	335	92	746	4,150	96	50	118
18	145	201	110	290	548	330	114	681	4,330	76	46	112
19	148	121	112	320	464	330	137	630	4,430	184	53	140
20	154	100	118	330	402	350	270	532	4,170	232	66	152
21	146	103	120	360	396	355	184	360	3,890	232	71	164
22	139	119	121	420	330	350	158	259	3,690	175	66	175
23	165	121	122	500	325	340	166	236	3,770	118	69	188
24	172	121	126	560	380	320	208	243	3,530	105	69	178
25	182	102	128	660	385	300	222	250	3,140	110	75	172
26	177	105	130	700	315	290	232	404	2,980	98	70	161
27	170	104	132	770	300	274	290	416	2,770	71	86	140
28	167	109	135	800	320	282	270	939	2,250	56	81	150
29	182	103	138	830	-----	274	258	1,590	1,640	42	167	161
30	210	111	140	840	-----	229	169	1,790	1,330	45	164	165
31	204	-----	150	840	-----	123	-----	1,740	-----	43	127	-----
TOTAL	4,493	5,317	3,577	11,464	15,653	10,272	5,925	13,964	70,743	9,823	1,856	4,319
MEAN	145	177	115	370	559	331	198	450	2,358	317	59.9	144
MAX	210	282	150	840	810	450	340	1,790	4,430	1,080	167	215
MIN	94	100	88	155	300	123	80	70	679	42	30	88
AC-FT	8,910	10,550	7,090	22,740	31,050	20,370	11,750	27,700	140,300	19,480	3,680	8,570

CAL YR 1970 TOTAL 81,785 MEAN 224 MAX 3,010 MIN 19 AC-FT 162,200
WTR YR 1971 TOTAL 157,406 MEAN 431 MAX 4,430 MIN 30 AC-FT 312,200

NOTE.--No gage-height record Dec. 18 to Feb. 18 and Aug. 26 to Sept. 30.

GREEN RIVER BASIN

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 downstream from bridge on State Highway 45, 1 mile downstream from Evacuation Creek, and 7 miles north of Watson.

DRAINAGE AREA.--4,020 sq mi, 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 as "near Rangely, Colo." 1904-05, 1918.

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

AVERAGE DISCHARGE.--48 years (1923-71), 703 cfs (509,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,010 cfs June 19, 20 (gage height, 5.50 ft); maximum gage height, 6.35 ft Jan. 22 (backwater from ice); minimum discharge, 87 cfs Dec. 15, result of freezeup.

Period of record: Maximum daily discharge, 8,160 cfs July 15, 1929; maximum gage height, 13.1 ft Feb. 11, 1962, from floodmark in well (backwater from ice); minimum discharge, 25 cfs Dec. 31, 1969, result of freezeup; minimum daily, 53 cfs July 19, 1934.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 31,900 acres above station. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS(WATER YEARS).--WSP 764: Drainage area. WSP 1313: 1934(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	475	464	435	370	390	565	695	1,950	1,720	400	432
2	405	460	455	440	380	390	529	726	1,590	1,530	385	414
3	399	470	413	410	380	390	459	854	1,510	1,400	371	397
4	392	475	386	385	380	380	438	1,070	1,600	1,320	345	460
5	389	475	432	380	370	380	429	1,340	1,930	1,250	357	619
6	411	480	432	385	365	380	423	1,400	1,820	1,170	356	571
7	906	508	422	410	370	385	424	1,300	1,770	994	373	526
8	749	540	393	440	375	389	446	1,280	1,820	897	383	582
9	664	505	412	480	380	380	473	1,320	2,080	935	408	651
10	588	500	446	520	390	363	480	1,300	2,110	913	348	607
11	604	500	439	540	380	416	520	1,240	2,110	871	324	546
12	644	495	423	500	385	532	619	1,120	2,070	786	289	521
13	585	490	385	460	390	587	713	1,060	2,140	753	304	502
14	573	470	373	440	410	756	786	1,240	2,270	678	314	484
15	567	450	297	390	420	535	851	1,560	2,420	664	309	470
16	555	450	480	410	390	460	959	1,750	2,530	646	299	448
17	543	413	450	395	395	450	1,050	2,000	2,540	561	312	441
18	532	464	435	420	410	420	1,120	2,190	2,540	490	285	449
19	515	470	425	500	400	394	1,160	1,930	2,840	518	261	505
20	500	454	420	520	385	388	1,080	1,630	2,890	499	254	506
21	505	457	410	520	380	573	995	1,410	2,850	507	253	492
22	517	443	410	450	370	1,020	938	1,240	2,780	500	242	511
23	515	446	408	390	370	1,030	860	1,300	2,780	513	249	503
24	500	450	390	400	400	994	793	1,350	2,800	513	243	484
25	500	460	380	410	450	976	779	1,300	2,720	526	264	470
26	500	480	400	440	420	853	764	1,190	2,690	512	276	451
27	500	465	420	410	400	783	778	1,160	2,510	468	348	440
28	485	445	440	370	390	1,060	776	1,370	2,400	452	368	425
29	480	450	455	360	-----	830	743	1,700	2,160	435	395	415
30	490	465	450	360	-----	603	717	2,080	1,940	392	422	400
31	490	-----	450	365	-----	548	-----	2,270	-----	397	441	-----
TOTAL	16,406	14,105	12,995	13,335	10,905	18,035	21,667	43,375	68,160	23,810	10,178	14,722
MEAN	529	470	419	430	389	582	722	1,399	2,272	768	328	491
MAX	906	540	480	540	450	1,060	1,160	2,270	2,890	1,720	441	651
MIN	389	413	297	360	365	363	423	695	1,510	392	242	397
AC-FT	32,540	27,980	25,780	26,450	21,630	35,770	42,980	86,030	135,200	47,230	20,190	29,200
CAL YR 1970	TOTAL 285,551			MEAN 782	MAX 3,820	MIN 143	AC-FT 566,400					
WTR YR 1971	TOTAL 267,693			MEAN 733	MAX 2,890	MIN 242	AC-FT 531,000					

PEAK DISCHARGE (BASE, 2,900 CFS).--June 19 (1300) 3,010 cfs (5.50 ft).

GREEN RIVER BASIN

79

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 upstream from road bridge, 3 miles downstream from Sweetwater Canyon Creek, 17 miles upstream from mouth, and 18 miles south-southwest of Bonanza.

DRAINAGE AREA.--324 sq mi.

PERIOD OF RECORD.--October to September of current year.

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

EXTREMES.--Current year: Maximum discharge, 507 cfs Aug. 30 (gage height, 5.82 ft in gage well, 9.74 ft, from floodmarks), from rating curve extended above 5 cfs on basis of slope-area measurement of peak flow; no flow for many days during July, Aug. Sept.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Small reservoirs on tributaries above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.5	2.5	1.4	1.4	1.1	3.1	2.5	.96	.02	0	.02
2	1.5	1.5	2.3	1.4	.96	1.5	2.9	2.6	.86	.36	0	0
3	1.5	1.5	2.2	1.3	.77	2.0	2.9	2.6	.67	0	0	0
4	1.5	1.5	2.2	1.2	2.5	2.5	2.8	2.6	.57	0	0	0
5	1.5	1.6	2.2	1.1	3.7	2.7	2.6	2.5	.67	0	0	0
6	1.5	1.5	2.3	1.0	3.7	2.9	3.0	2.4	.67	0	0	0
7	2.0	1.7	2.4	1.0	3.5	3.0	3.1	2.0	.77	0	0	.01
8	2.1	1.7	2.0	1.0	2.5	3.2	3.1	2.3	.86	.01	0	0
9	1.8	2.2	2.2	1.1	1.1	3.4	3.1	3.3	1.1	0	0	0
10	1.5	1.5	2.2	1.2	1.1	3.5	3.1	2.9	1.2	0	0	0
11	1.5	2.3	2.6	1.3	.47	3.7	3.1	2.3	1.1	0	0	0
12	1.5	2.2	2.3	1.4	.86	3.9	3.1	2.8	.86	0	0	0
13	1.5	1.7	1.3	1.5	1.1	6.1	2.9	2.8	.96	0	0	0
14	1.5	2.3	1.8	1.7	1.1	4.1	2.9	2.8	.96	0	0	0
15	1.5	1.6	2.2	1.9	1.1	4.7	2.8	2.5	.86	0	0	0
16	1.5	1.9	1.3	2.0	1.1	5.2	2.9	2.3	.77	0	0	0
17	1.5	1.9	2.6	2.1	1.1	4.1	3.3	2.3	.52	0	0	0
18	1.5	2.0	1.6	2.3	1.1	3.7	3.9	2.0	.47	.15	0	0
19	1.5	2.0	1.6	2.6	1.1	3.5	4.1	1.9	.41	.08	0	0
20	1.5	2.0	1.5	2.7	1.1	3.7	4.3	1.9	.36	0	0	0
21	1.5	2.0	1.5	2.7	1.1	7.4	4.3	1.1	.36	0	0	0
22	1.7	1.9	1.5	2.6	1.1	7.6	3.7	.96	.36	0	0	0
23	2.0	1.9	1.5	2.2	1.1	6.9	3.5	.86	.36	0	0	0
24	2.1	1.9	1.5	2.2	1.1	4.9	3.3	.67	.47	0	0	0
25	2.1	1.9	1.5	2.0	1.1	4.7	2.6	.86	.41	0	0	0
26	1.9	2.2	1.5	2.0	1.0	4.1	2.5	.86	.47	0	.03	0
27	1.6	2.0	1.5	2.2	1.0	3.7	2.0	.77	.47	0	.56	0
28	1.5	1.9	1.6	1.9	1.0	3.7	2.0	.77	.41	0	.18	0
29	1.5	2.2	1.7	2.0	-----	3.5	2.0	.96	.02	0	.02	0
30	1.5	2.2	1.7	2.0	-----	3.3	2.4	1.1	.01	0	30	0
31	1.5	-----	1.5	1.9	-----	3.3	-----	.96	-----	0	1.2	-----
TOTAL	50.3	56.2	58.3	54.9	39.86	121.6	91.3	59.17	18.94	.62	31.99	.03
MEAN	1.62	1.87	1.88	1.77	1.42	3.92	3.04	1.91	.63	.020	1.03	.001
MAX	2.1	2.3	2.6	2.7	3.7	7.6	4.3	3.3	1.2	.36	30	.02
MIN	1.5	1.5	1.3	1.0	.47	1.1	2.0	.67	.01	0	0	0
AC-FT	100	111	116	109	79	241	181	117	33	1.2	63	.06

CAL YR 1970 TOTAL 164.80 MEAN .45 MAX 2.6 MIN 0 AC-FT 327
WTR YR 1971 TOTAL 583.21 MEAN 1.60 MAX 30 MIN 0 AC-FT 1,160

NOTE.--No gage-height record Oct. 1 to Nov. 4, Dec. 19 to Jan. 22.

GREEN RIVER BASIN

09308500 Minnie Maud Creek near Myton, Utah

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

DRAINAGE AREA.--30 sq mi, 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 (by barometer).

AVERAGE DISCHARGE.--19 years, 5.08 cfs (3,680 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 15 cfs May 16 (gage height, 5.69 ft) maximum gage height, 7.30 ft Dec. 23 (backwater from ice); minimum discharge observed, 0.17 cfs Dec. 4 (discharge measurement), result of freezeup.

Period of record: Maximum discharge, 1,370 cfs Aug. 25, 1961 (gage height, 9.40 ft), from rating curve extended above 110 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.71	.35	.20	.95	.80	2.8	5.7	6.3	1.7	.42	.79
2	.68	.68	.32	.21	.90	.80	3.2	6.7	5.9	1.7	.40	.79
3	.68	.65	.30	.22	.90	.85	3.5	8.0	5.7	1.6	.42	.84
4	.68	.64	.30	.30	.88	.90	3.8	8.5	5.5	1.4	.42	.84
5	.68	.62	.30	.35	.85	.90	4.2	8.8	5.4	1.4	.44	.84
6	.94	.62	.30	.38	.83	.95	4.6	8.2	5.2	1.3	.44	.79
7	.84	.66	.30	.40	.82	1.0	4.4	8.8	5.0	1.2	.42	.74
8	.84	.68	.30	.40	.85	1.1	4.4	8.2	4.9	1.5	.42	.84
9	.79	.65	.30	.42	.90	1.2	4.6	8.2	4.9	1.2	.40	.74
10	.89	.71	.30	.43	.95	1.2	4.9	9.5	4.8	1.1	.40	.68
11	.79	.71	.30	.44	.97	1.2	4.9	10	5.0	1.0	.38	.65
12	.74	.70	.30	.45	.98	1.2	4.9	11	4.4	.89	.36	.65
13	.74	.68	.30	.46	.98	1.2	4.9	12	4.0	.94	.36	.62
14	.74	.65	.30	.48	.98	1.2	5.0	13	3.6	.89	.36	.56
15	.79	.62	.30	.50	.95	1.2	5.0	12	3.5	.89	.34	.53
16	.79	.60	.30	.55	.90	1.2	5.0	12	3.2	.79	.34	.53
17	.79	.50	.30	.60	.90	1.2	5.0	11	3.2	.79	.34	.56
18	.84	.45	.30	.70	.90	1.3	5.2	10	3.0	.84	.34	.56
19	.74	.45	.30	.75	.85	1.5	5.2	9.8	2.8	.89	.34	.68
20	.74	.45	.30	.85	.85	2.5	5.2	9.5	2.8	.94	.65	.84
21	.79	.43	.30	.90	.85	3.0	5.0	9.5	2.7	.79	1.9	.89
22	.84	.43	.30	.95	.85	4.0	5.0	9.0	2.6	.74	3.1	.84
23	.79	.45	.30	1.0	.85	4.5	4.9	8.0	2.4	.65	2.2	.79
24	.89	.46	.30	1.0	.85	4.6	5.2	7.8	2.3	.62	1.4	.74
25	.79	.47	.30	1.1	.80	4.3	5.2	7.5	2.1	.59	1.2	.74
26	.84	.48	.28	1.1	.75	4.3	4.8	7.3	2.0	.59	.99	.71
27	.74	.45	.27	1.1	.75	4.6	5.2	7.3	2.0	.53	1.1	.68
28	.62	.42	.24	1.1	.75	3.6	5.0	7.5	1.9	.50	1.1	.65
29	.60	.40	.22	1.1	-----	3.0	4.9	8.2	1.9	.47	1.1	.68
30	.64	.38	.21	1.0	-----	3.2	5.2	7.1	1.7	.47	.99	.79
31	.67	-----	.21	1.0	-----	3.2	-----	6.7	-----	.44	.89	-----
TOTAL	23.64	16.80	9.00	20.44	24.54	65.70	141.1	276.8	110.7	29.35	23.96	21.58
MEAN	.76	.56	.29	.66	.88	2.12	4.70	8.93	3.69	.95	.77	.72
MAX	.94	.71	.35	1.1	.98	4.6	5.2	13	6.3	1.7	3.1	.89
MIN	.60	.38	.21	.20	.75	.80	2.8	5.7	1.7	.44	.34	.53
AC-FT	47	33	18	41	49	130	280	549	220	58	48	43

CAL YR 1970 TOTAL 806.34 MEAN 2.21 MAX 9.8 MIN .21 AC-FT 1,600
WTR YR 1971 TOTAL 763.61 MEAN 2.09 MAX 13 MIN .20 AC-FT 1,510

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

NOTE.--No gage-height record Dec. 25 to Jan. 31, Feb. 13 to Mar. 23.

GREEN RIVER BASIN

81

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 upstream from tunnel portal, 7 miles east-northeast of Fairview.

RECORDS AVAILABLE.--July 1967 to current year. (July to September 1967, gage height only)

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

EXTREMES.--Current year: Maximum daily discharge, 17 cfs July 22-25; no flow many days.

Period of record: Maximum discharge, 23 cfs Aug. 2, 1969 (gage height, 1.09 ft); no flow many days each year.

REMARKS.--Records good except those for periods of no gage-height record, which are 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	10	16	1.7
2	0	0	0	0	0	0	0	0	0	9.6	16	1.5
3	0	0	0	0	0	0	0	0	0	9.6	16	1.8
4	0	0	0	0	0	0	0	0	0	9.6	16	1.5
5	0	0	0	0	0	0	0	0	0	11	16	1.5
6	0	0	0	0	0	0	0	0	0	10	15	1.3
7	0	0	0	0	0	0	0	0	0	13	15	1.2
8	0	0	0	0	0	0	0	0	0	14	15	1.2
9	0	0	0	0	0	0	0	0	0	14	15	1.0
10	0	0	0	0	0	0	0	0	0	15	14	.80
11	0	0	0	0	0	0	0	0	0	15	14	.60
12	0	0	0	0	0	0	0	0	0	15	14	.60
13	0	0	0	0	0	0	0	0	0	16	13	.50
14	0	0	0	0	0	0	0	0	0	15	12	.50
15	0	0	0	0	0	0	0	0	.40	15	11	.50
16	0	0	0	0	0	0	0	0	3.6	15	10	.40
17	0	0	0	0	0	0	0	0	3.0	16	9.6	.40
18	0	0	0	0	0	0	0	0	4.0	16	9.1	.40
19	0	0	0	0	0	0	0	0	3.6	16	8.7	.40
20	0	0	0	0	0	0	0	0	3.1	16	8.2	.40
21	0	0	0	0	0	0	0	0	3.1	16	7.5	.40
22	0	0	0	0	0	0	0	0	4.1	17	6.7	.40
23	0	0	0	0	0	0	0	0	8.2	17	5.2	.40
24	0	0	0	0	0	0	0	0	10	17	3.1	.30
25	0	0	0	0	0	0	0	0	8.9	17	2.8	.30
26	0	0	0	0	0	0	0	0	8.4	16	2.4	.30
27	0	0	0	0	0	0	0	0	9.4	16	2.4	.30
28	0	0	0	0	0	0	0	0	11	16	2.4	.30
29	0	0	0	0	---	0	0	0	10	16	2.1	.30
30	0	0	0	0	---	0	0	0	10	16	1.9	.30
31	0	---	0	0	---	0	---	0	-----	16	1.8	----
TOTAL	0	0	0	0	0	0	0	0	100.80	450.8	301.9	21.5
MEAN	0	0	0	0	0	0	0	0	3.36	14.5	9.74	.72
MAX	0	0	0	0	0	0	0	0	10	17	16	1.8
MIN	0	0	0	0	0	0	0	0	0	9.6	1.8	.30
AC-FT	0	0	0	0	0	0	0	0	200	894	599	43
CAL YR 1970	TOTAL	1,073.88	MEAN	2.94	MAX	17	MIN	0	AC-FT	2,130		
WTR YR 1971	TOTAL	875.0	MEAN	2.40	MAX	17	MIN	0	AC-FT	1,740		

NOTE.--No gage-height record Oct. 1 to June 14.

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 downstream from old Mammoth Dam, 5.5 miles upstream from mouth, and 7 miles west of Scofield.

DRAINAGE AREA.--16.4 sq mi.

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

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

AVERAGE DISCHARGE.--32 years, 15.8 cfs (13,550 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 224 cfs May 15 (gage height, 2.27 ft); minimum daily, 3.7 cfs Feb. 21, may have been less during period of ice effect.

Period of record: Maximum discharge, 414 cfs May 30, 1952; maximum gage height, 2.98 ft June 6, 1957; no flow Nov. 11, 1964, Sept. 23-26, 1966.

REMARKS.--Records fair except those for winter period, 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 above station (capacity, about 1,900 acre-ft) is used to regulate these diversions. Flow also affected by small reservoir 1 mile above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	5.0	6.0	7.0	3.8	3.5	6.0	30	61	18	6.4	4.4
2	3.8	5.0	5.8	7.0	3.8	3.5	5.7	46	56	15	6.3	4.4
3	3.8	4.7	7.7	7.0	3.8	3.5	5.2	72	53	15	6.3	4.4
4	4.1	4.7	5.5	7.0	3.8	3.5	5.3	79	53	14	6.3	4.7
5	5.0	4.7	5.3	7.0	3.7	3.5	5.8	60	55	14	6.5	4.7
6	6.6	4.7	5.0	7.0	3.7	3.5	6.4	60	52	13	6.3	4.7
7	6.1	6.3	5.0	7.0	3.7	3.5	6.6	72	48	13	6.3	6.3
8	5.7	6.4	5.0	7.0	3.7	3.5	7.2	79	48	13	6.3	7.6
9	5.9	5.5	5.4	7.0	3.7	3.5	8.0	64	48	12	6.1	5.8
10	6.9	5.8	5.7	7.0	3.7	3.5	9.0	73	48	11	5.9	4.7
11	6.5	5.0	6.0	7.0	3.7	3.8	10	107	48	11	5.9	4.4
12	6.0	5.4	7.0	7.0	3.7	3.5	11	142	48	10	5.9	4.4
13	5.4	5.6	7.0	7.0	3.7	3.5	11	156	44	10	5.4	4.1
14	5.0	5.0	7.0	7.0	3.7	3.8	15	159	42	10	4.7	3.5
15	4.7	4.7	7.0	7.0	3.7	3.8	13	174	42	11	5.0	3.5
16	4.7	4.7	7.0	7.0	3.7	3.8	20	184	46	11	5.0	4.1
17	4.7	4.7	7.0	7.6	3.7	3.5	26	124	35	11	5.0	3.8
18	4.7	5.0	7.0	8.4	3.7	4.1	23	75	33	12	5.0	3.8
19	4.7	5.1	7.0	9.9	3.7	4.7	18	62	31	12	5.0	4.1
20	5.0	5.0	7.0	12	3.5	4.4	15	64	29	11	5.0	4.4
21	4.7	4.7	7.0	11	3.2	4.1	14	65	28	11	5.0	4.4
22	5.0	4.7	7.0	9.3	3.3	4.7	14	64	26	9.7	5.4	4.7
23	5.7	4.7	7.0	10	3.5	4.0	14	58	25	9.3	6.3	5.0
24	6.9	5.0	7.0	11	3.5	4.3	14	58	24	7.7	5.1	5.2
25	6.0	5.6	7.0	10	3.5	4.1	14	65	23	7.1	5.0	5.7
26	5.9	5.4	7.0	6.2	3.5	4.5	14	72	22	7.0	5.0	5.4
27	5.9	5.4	7.0	5.0	3.5	5.4	14	78	20	6.7	5.0	4.7
28	5.1	5.4	7.0	4.6	3.5	5.6	14	75	20	6.8	5.0	4.7
29	5.0	5.4	7.0	4.2	-----	5.4	16	74	19	6.7	5.8	4.7
30	5.0	5.6	7.0	4.0	-----	6.0	20	75	19	6.7	5.7	4.7
31	5.3	-----	7.0	3.9	-----	6.7	-----	71	-----	6.7	5.0	-----
TOTAL	163.6	154.9	202.4	229.1	101.7	128.7	375.2	2,637	1,146	332.4	172.9	141.0
MEAN	5.28	5.16	6.53	7.39	3.63	4.15	12.5	85.1	38.2	10.7	5.58	4.70
MAX	6.9	6.4	7.7	12	3.8	6.7	26	184	61	18	6.5	7.6
MIN	3.8	4.7	5.0	3.9	3.2	3.5	5.2	30	19	6.7	4.7	3.5
AC-FT	325	307	401	454	202	255	744	5,230	2,270	659	343	280

CAL YR 1970 TOTAL 6,883.5 MEAN 18.9 MAX 253 MIN 3.8 AC-FT 13,650
WTR YR 1971 TOTAL 5,784.9 MEAN 15.8 MAX 184 MIN 3.2 AC-FT 11,470

NOTE.--No gage-height record Dec. 13 to Jan. 18, Jan. 25 to Mar. 23.

GREEN RIVER BASIN

83

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 upstream from bridge, 1.2 miles downstream from French Creek, and 4.5 miles north of Scofield.

DRAINAGE AREA.--65 sq mi, 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 (from topographic map). June 1931 to September 1932, and October 1938 to July 27, 1967 at various sites about 0.5 mile downstream at different datums.

AVERAGE DISCHARGE.--33 years (1938-71), 46.4 cfs (33,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 659 cfs May 15 (gage height, 3.93 ft); minimum, 4.0 cfs Nov. 15.

Period of record: Maximum discharge, 1,070 cfs May 14, 1952 (gage height, 3.62 ft, site and datum then in use); minimum recorded, 0.6 cfs Oct. 31, 1960.

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

REVISIONS(WATER YEARS).--WSP 1513: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	12	20	18	20	34	113	209	45	16	10
2	12	17	11	20	21	20	34	160	192	42	16	11
3	12	16	12	20	25	20	34	218	180	41	15	13
4	12	15	17	20	23	20	34	239	172	39	16	12
5	13	12	18	20	20	20	34	209	166	37	17	11
6	18	13	18	20	20	21	34	203	159	36	17	10
7	17	13	20	20	20	21	34	217	154	36	17	14
8	15	17	22	20	20	22	34	232	152	35	17	14
9	15	17	20	20	20	22	34	209	147	33	16	11
10	19	14	22	20	20	23	35	212	143	30	15	11
11	16	15	20	20	20	23	35	249	143	29	13	10
12	15	15	20	20	20	23	38	297	135	28	12	9.6
13	13	14	20	20	20	23	113	326	123	27	11	8.9
14	11	11	20	20	20	23	125	383	115	27	11	8.3
15	6.6	9.7	20	20	20	23	127	492	109	27	11	8.1
16	7.0	13	20	20	20	23	147	567	101	26	11	8.6
17	7.0	10	20	20	20	23	161	434	94	26	13	8.2
18	7.3	11	20	20	20	23	148	330	90	30	13	8.2
19	7.4	15	20	21	20	23	127	290	84	30	13	8.1
20	7.3	13	20	22	20	23	112	278	79	26	12	8.0
21	7.7	14	20	24	20	23	100	272	74	25	13	7.8
22	8.2	13	20	21	20	23	93	268	68	24	15	8.0
23	10	12	20	24	20	23	89	252	64	24	15	9.1
24	11	12	20	23	20	23	87	245	62	22	12	9.3
25	12	11	20	21	20	24	85	260	58	21	12	9.4
26	12	11	20	21	20	27	81	277	56	20	14	9.7
27	11	12	20	16	20	30	79	286	53	19	13	9.6
28	12	11	20	16	20	34	74	276	51	18	13	9.2
29	13	12	20	19	-----	34	75	261	50	18	14	14
30	14	9.5	20	21	-----	33	87	254	46	18	12	15
31	17	-----	20	20	-----	34	-----	235	-----	18	11	-----
TOTAL	370.5	395.2	592	629	567	747	2,324	8,544	3,329	877	426	304.1
MEAN	12.0	13.2	19.1	20.3	20.3	24.1	77.5	276	111	28.3	13.7	10.1
MAX	19	17	22	24	25	34	161	567	209	45	17	15
MIN	6.6	9.5	11	16	18	20	34	113	46	18	11	7.8
AC-FT	735	784	1,170	1,250	1,120	1,480	4,610	16,950	6,600	1,740	845	603
CAL YR 1970	TOTAL	18,446.9	MEAN	50.5	MAX	564	MIN	6.6	AC-FT	36,590		
WTR YR 1971	TOTAL	19,104.8	MEAN	52.3	MAX	567	MIN	6.6	AC-FT	37,890		

PEAK DISCHARGE (BASE, 270 CFS).--May 15 (2400) 659 cfs (3.93 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 upstream from face of dam on Price River and 5 miles northeast of Scofield.

DRAINAGE AREA.--155 sq mi, 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 upstream (200 ft upstream from old dam) at datum 4.51 ft higher.

EXTREMES.--Current year: Maximum contents, 69,760 acre-ft June 1-9 (elevation, 7,618.9 ft); minimum, 37,350 acre-ft Sept. 28-30 (elevation, 7,606.6 ft).

Period of record: Maximum contents, 76,450 acre-ft May 31, June 1, 1952 (elevation, 7,621.3 ft); minimum observed, 280 acre-ft Oct. 3, 1945 (elevation, 7,586.25 ft).

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft 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 between elevations 7,586.0 (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. 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)

7,606	35,930	7,613	53,500
7,607	38,310	7,616	61,610
7,610	45,720	7,619	70,040

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38,550	38,790	39,030	39,760	41,230	43,460	45,720	52,970	69,760	65,500	53,500	42,710
2	38,550	38,790	39,030	39,760	41,230	43,460	45,720	53,230	69,760	65,220	52,970	42,460
3	38,550	38,790	39,030	39,760	41,230	43,460	46,230	53,500	69,760	64,940	52,440	42,460
4	38,550	38,790	39,030	39,760	41,230	43,460	46,230	53,760	69,760	64,660	51,920	42,220
5	38,550	38,790	39,030	39,760	41,230	43,460	46,230	54,030	69,760	64,380	51,390	41,970
6	38,550	38,790	39,030	39,760	41,480	43,710	46,480	54,300	69,760	64,100	50,870	41,970
7	38,550	38,790	39,030	39,760	41,480	43,710	46,740	54,560	69,760	63,550	50,350	41,720
8	38,550	38,790	39,030	39,760	41,480	43,710	46,740	55,090	69,760	63,270	50,350	41,480
9	38,550	38,790	39,280	39,760	41,480	43,710	47,000	56,430	69,760	62,710	50,090	41,230
10	38,550	38,790	39,280	40,000	41,970	43,710	47,000	57,240	69,470	62,440	49,830	41,230
11	38,550	38,790	39,280	40,000	41,970	43,960	47,000	57,780	69,470	62,160	49,310	41,230
12	38,550	38,790	39,280	40,000	41,970	43,960	47,760	58,320	69,470	61,880	48,790	40,980
13	38,550	39,030	39,280	40,000	41,970	43,960	47,760	58,870	69,470	61,610	48,540	40,740
14	38,550	39,030	39,280	40,000	42,220	43,960	48,020	59,960	69,470	61,330	48,280	40,740
15	38,550	39,030	39,280	40,250	42,220	43,960	48,020	60,510	69,470	61,060	48,020	40,490
16	38,550	39,030	39,280	40,250	42,460	44,210	48,790	61,330	69,190	60,510	47,760	40,490
17	38,550	39,030	39,280	40,250	42,460	44,210	49,310	62,710	69,190	59,960	47,510	40,490
18	38,550	39,030	39,280	40,250	42,710	44,210	49,570	63,270	68,900	59,410	46,740	40,250
19	38,550	39,030	39,280	40,250	42,710	44,210	49,570	64,380	68,900	59,140	46,230	39,760
20	38,550	39,030	39,280	40,490	42,710	44,210	49,830	65,500	68,620	58,870	45,980	39,280
21	38,550	39,030	39,280	40,490	42,710	44,460	50,090	65,500	68,330	58,600	45,720	38,790
22	38,550	39,030	39,280	40,490	42,710	44,460	50,610	65,500	68,330	57,780	45,470	38,790
23	38,550	39,030	39,520	40,490	42,960	44,710	50,870	66,630	68,330	57,240	45,220	38,310
24	38,550	39,030	39,520	40,490	42,960	44,710	51,130	67,190	68,040	56,700	44,710	38,070
25	38,790	39,030	39,520	40,490	42,960	44,710	51,390	67,190	68,040	56,160	44,210	38,070
26	38,790	39,030	39,520	40,490	42,960	45,220	51,650	67,480	67,760	56,160	43,710	37,830
27	38,790	39,030	39,520	40,740	43,460	45,470	51,920	67,760	67,190	55,630	43,710	37,590
28	38,790	39,030	39,520	40,740	43,460	45,470	52,180	68,040	66,910	55,090	43,210	37,350
29	38,790	39,030	39,520	40,980	-----	45,720	52,440	68,330	66,630	54,560	42,960	37,350
30	38,790	39,030	39,760	40,980	-----	45,720	52,710	68,900	66,060	54,030	42,960	37,350
31	38,790	-----	39,760	41,230	-----	45,720	-----	69,470	-----	53,500	42,960	-----
MAX	38,790	39,030	39,760	41,230	43,460	45,720	52,710	69,470	69,760	65,500	53,500	42,710
MIN	38,550	38,790	39,030	39,760	41,230	43,460	45,720	52,970	66,060	53,500	42,960	37,350
(+)	7,607.2	7,607.3	7,607.6	7,608.2	7,609.1	7,610.0	7,612.7	7,618.8	7,617.6	7,613.0	7,608.9	7,606.6
(#)	0	+240	+730	+1,470	+2,230	+2,260	+6,990	+16,760	-3,410	-12,560	-10,540	-5,610

CAL YR 1970..... + -8,520
WTR YR 1971..... + -1,440

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

GREEN RIVER BASIN

85

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 downstream from bridge on U.S. Highways 6-50, 1.5 miles downstream from Tabbyune Creek, 2.5 miles northwest of the Colton railroad siding, and 4.5 miles southeast of Soldier Summit.

DRAINAGE AREA.--75 sq mi, approximately.

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

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

EXTREMES.--Current year: Maximum discharge, 204 cfs May 16 (gage height, 3.39 ft); minimum, 2.4 cfs Nov. 13.
Period of record: Maximum discharge, 347 cfs May 23, 1968 (gage height, 4.33 ft); minimum daily, 1.6 cfs Mar. 1-18, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.2	9.0	5.6	5.2	5.2	51	115	80	23	6.3	6.2
2	5.0	5.5	8.0	5.6	5.2	5.2	48	142	75	22	5.8	4.8
3	5.0	5.3	7.5	5.6	5.2	5.2	49	165	70	21	5.8	5.4
4	5.1	7.4	7.5	5.6	5.2	5.2	49	174	68	20	5.8	5.4
5	5.0	5.5	7.6	5.6	5.2	5.2	52	172	65	19	10	4.9
6	8.0	5.6	7.5	5.6	5.2	5.2	59	169	62	17	9.1	4.6
7	8.1	6.2	7.5	5.6	5.2	5.2	67	162	59	16	8.9	5.3
8	6.6	6.6	7.5	5.6	5.2	5.2	64	160	58	16	8.1	6.7
9	6.3	6.3	7.5	5.6	5.2	5.2	77	146	58	16	7.7	5.2
10	13	6.1	7.6	5.6	5.2	5.4	89	140	58	14	7.6	4.6
11	8.7	5.6	7.2	5.3	5.2	5.7	103	149	55	13	6.4	4.4
12	7.1	5.5	7.0	5.2	5.3	6.0	107	155	50	13	5.5	4.3
13	6.6	5.5	6.7	5.2	5.7	6.4	107	161	46	12	5.3	4.0
14	6.1	5.4	6.4	5.2	6.2	6.7	108	163	44	11	4.9	3.8
15	6.1	5.4	6.2	5.2	6.5	7.0	107	172	41	11	4.9	3.6
16	5.7	5.4	6.0	5.2	6.1	7.0	116	187	40	11	4.8	3.7
17	6.0	5.3	5.7	5.2	5.8	7.0	118	175	39	10	4.7	3.9
18	5.8	5.2	5.6	5.2	5.5	7.0	114	156	37	13	5.4	4.2
19	5.7	5.2	5.6	5.2	5.3	7.0	109	141	36	13	7.0	4.5
20	5.5	5.2	5.6	5.2	5.3	7.0	105	130	35	11	6.3	4.7
21	5.9	5.1	5.6	5.2	5.3	7.0	97	122	33	9.6	6.3	5.0
22	6.2	5.2	5.6	5.2	5.2	8.2	93	117	32	9.3	6.7	4.9
23	6.5	5.1	5.6	5.2	5.2	10	97	113	31	9.5	6.0	4.9
24	7.2	5.5	5.6	5.2	5.2	12	97	107	30	8.8	4.8	4.8
25	6.9	6.0	5.6	5.2	5.2	14	95	102	30	8.5	4.8	4.8
26	6.0	6.7	5.6	5.2	5.2	17	95	99	29	7.7	5.4	4.7
27	6.5	6.8	5.6	5.2	5.2	38	94	96	28	7.5	5.4	4.6
28	9.1	6.1	5.6	5.2	5.2	51	93	94	28	7.1	6.0	4.3
29	8.6	8.7	5.6	5.2	-----	54	92	92	26	6.9	6.8	4.6
30	8.3	6.6	5.6	5.2	-----	64	97	93	25	6.8	6.4	4.6
31	6.4	-----	5.6	5.2	-----	72	-----	87	-----	6.3	8.1	-----
TOTAL	208.1	176.2	200.8	165.3	150.6	466.2	2,649	4,256	1,368	390.0	197.0	141.4
MEAN	6.71	5.87	6.48	5.33	5.38	15.0	88.3	137	45.6	12.6	6.35	4.71
MAX	13	8.7	9.0	5.6	6.5	72	118	187	80	23	10	6.7
MIN	5.0	5.1	5.6	5.2	5.2	5.2	48	87	25	6.3	4.7	3.6
AC-FT	413	349	398	328	299	925	5,250	8,440	2,710	774	391	280

CAL YR 1970 TOTAL 7,524.9 MEAN 20.6 MAX 205 MIN 3.0 AC-FT 14,930
WTR YR 1971 TOTAL 10,368.6 MEAN 28.4 MAX 187 MIN 3.6 AC-FT 20,570

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-17	2000	2.82	122	5-16	1800	3.39	204
5-06	0700	3.15	178				

LOCATION.--Lat 39°49'50", long 110°58'07", in NW¼SW¼ sec.30, T.11 S., R.9 E., Utah County, on left bank 0.5 mile upstream from mouth, 2.5 miles southeast of Colton, and 9 miles southeast of Soldier Summit.

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

AVERAGE DISCHARGE.--11 years, 4.08 cfs (2,960 acre-ft per year).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.90	1.2	1.3	1.5	1.6	3.0	5.4	16	2.4	.26	.45
2	.76	.90	1.2	1.3	1.5	1.6	2.8	6.7	15	2.2	.25	.41
3	.77	.94	1.2	1.3	1.5	1.6	2.6	9.0	14	2.0	.21	.33
4	.78	.90	1.3	1.3	1.5	1.6	2.5	12	13	2.1	.26	.53
5	.80	.90	1.3	1.3	1.5	1.6	2.9	11	12	2.0	.49	.46
6	1.2	.90	1.3	1.3	1.5	1.6	3.3	12	12	1.8	.90	.36
7	1.6	.90	1.3	1.3	1.5	1.6	3.5	14	11	1.8	.69	.42
8	1.2	.90	1.3	1.3	1.5	1.6	3.2	14	10	1.9	.55	.85
9	1.1	.90	1.3	1.3	1.5	1.6	4.2	12	10	1.9	.49	.61
10	1.7	.90	1.3	1.3	1.5	1.6	5.1	13	9.9	1.6	.45	.43
11	1.7	.90	1.3	1.3	1.5	1.7	5.3	12	10	1.4	.39	.25
12	1.3	.90	1.3	1.3	1.5	1.8	5.0	14	10	1.3	.28	.16
13	1.2	.90	1.3	1.3	1.6	1.8	5.3	15	9.1	1.2	.27	.09
14	.99	.89	1.3	1.3	1.7	1.8	5.1	18	8.4	1.2	.18	.01
15	.91	.90	1.3	1.3	1.8	1.8	4.4	24	7.8	1.2	.11	.01
16	.84	.90	1.3	1.4	1.8	.88	5.8	29	7.2	1.2	.09	.01
17	.94	.90	1.3	1.4	1.5	.74	5.6	28	6.7	1.1	.15	.01
18	.88	.90	1.3	1.5	1.3	.90	4.9	25	6.3	1.2	.22	.05
19	.97	.90	1.3	1.5	1.4	1.2	4.6	22	6.5	1.5	.25	.07
20	1.0	.90	1.3	1.4	1.6	1.6	5.0	21	6.1	1.7	.22	.12
21	1.1	.90	1.3	1.5	1.6	1.7	5.5	20	5.8	1.2	.21	.20
22	1.2	.90	1.3	1.5	1.6	1.8	4.9	20	5.3	1.1	.21	.44
23	1.1	.90	1.3	1.5	1.6	2.1	5.7	19	4.7	.90	.17	.29
24	1.1	.90	1.3	1.5	1.6	2.3	6.0	17	4.4	.73	.09	.25
25	1.0	.90	1.3	1.5	1.6	2.5	6.0	18	3.9	.64	.11	.28
26	1.0	.90	1.3	1.5	1.6	5.4	4.9	18	3.1	.58	.16	.30
27	.98	.95	1.3	1.5	1.6	4.6	5.2	18	2.8	.49	.22	.31
28	.98	1.1	1.3	1.5	1.6	4.0	4.6	18	2.9	.44	.22	.22
29	.90	1.2	1.3	1.5	-----	4.0	4.4	19	2.7	.36	.40	.22
30	.90	1.2	1.3	1.5	-----	4.5	4.8	19	2.6	.27	.60	.22
31	.90	-----	1.3	1.5	-----	3.4	-----	19	-----	.25	.56	-----
TOTAL	32.62	27.88	40.0	43.2	43.5	66.52	136.1	522.1	239.2	39.66	9.66	8.16
MEAN	1.05	.93	1.29	1.39	1.55	2.15	4.54	16.8	7.97	1.28	.31	.27
MAX	1.7	1.2	1.3	1.5	1.8	5.4	6.0	29	16	2.4	.90	.85
MIN	.76	.89	1.2	1.3	1.3	.74	2.5	5.4	2.6	.25	.09	.01
AC-FT	65	55	79	86	86	132	270	1,040	474	79	19	16
CAL YR 1970	TOTAL	1,270.27	MEAN	3.48	MAX	26	MIN	.44	AC-FT	2,520		
WTR YR 1971	TOTAL	1,208.60	MEAN	3.31	MAX	29	MIN	.01	AC-FT	2,400		

GREEN RIVER BASIN

87

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 upstream from Deep Canyon, 170 ft east of State Highway 33, 2 miles downstream from junction with two major tributaries, 5 miles northeast of Castle Gate, 5.5 miles upstream from mouth, and 12 miles north of Price.

DRAINAGE AREA.--62 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--9 years, 8.03 cfs (5,820 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 119 cfs Aug. 16 (gage height, 2.84 ft); minimum daily, .02 cfs Oct. 21, 22.

Period of record: Maximum discharge, 550 cfs July 15, 1967 (gage height, 5.00 ft), from rating curve extended above 119 cfs on basis of slope-area study for flood of Sept. 21, 1962; no flow on many days.

Flood of Sept. 21, 1962 reached a stage of 6.3 ft, from high-water mark (discharge, about 800 cfs, from slope-area study).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.14	.54	.78	1.0	1.0	4.0	6.4	11	1.9	.44	.66
2	.54	.16	.78	.78	1.0	1.0	4.0	7.5	9.8	1.8	.41	.54
3	.54	.18	.78	.78	1.0	1.0	4.0	9.3	8.7	1.8	.37	.67
4	.54	.34	.78	.78	1.0	1.0	4.4	12	8.2	1.6	3.0	.64
5	.58	.31	.78	.78	1.0	1.0	4.8	13	7.9	1.5	4.7	.60
6	1.7	.30	.78	.78	1.0	1.0	5.0	14	7.8	1.5	1.6	.52
7	1.4	.24	.78	.78	1.0	1.0	5.4	15	7.4	1.4	.93	1.3
8	.85	.19	.78	.78	1.0	1.0	5.8	17	6.9	1.7	.72	.90
9	.99	.15	.78	.78	1.0	1.0	6.2	14	7.2	1.8	.63	.62
10	1.7	.11	.78	1.0	1.0	1.0	6.6	13	6.7	1.5	.57	.55
11	.90	.07	.78	1.0	1.0	1.5	7.0	13	6.7	1.3	.49	.48
12	.90	.08	.78	1.0	1.0	2.0	7.7	14	8.4	1.2	.42	.44
13	.82	.10	.78	1.0	1.0	3.0	8.2	15	6.7	1.1	.40	.39
14	.97	.12	.78	1.0	1.0	4.0	8.5	15	6.0	1.1	.37	.32
15	.38	.14	.78	1.0	1.0	5.0	8.6	17	5.3	1.0	.36	.33
16	.23	.17	.78	1.0	1.0	5.0	8.9	21	5.0	.99	8.3	.34
17	.17	.18	.78	1.0	1.0	5.0	9.1	22	4.6	.91	5.6	.35
18	.11	.18	.78	1.0	1.0	5.0	9.6	20	4.5	.98	.99	.34
19	.08	.19	.78	1.0	1.0	5.0	9.7	17	4.7	1.2	6.3	.29
20	.04	.19	.78	1.0	1.0	5.0	9.4	16	4.3	1.3	6.8	.34
21	.02	.20	.78	1.0	1.0	4.0	8.9	14	4.1	1.1	3.4	.37
22	.02	.20	.78	1.0	1.0	4.0	7.8	13	3.8	1.1	6.0	.39
23	.03	.20	.78	1.0	1.0	4.0	9.3	14	3.5	1.0	.98	.36
24	.04	.21	.78	1.0	1.0	4.0	10	13	3.3	.85	.65	.35
25	.05	.21	.78	1.0	1.0	4.0	8.6	12	2.9	.85	.60	.36
26	.07	.22	.78	1.0	1.0	4.0	6.9	11	2.5	.72	.62	.37
27	.07	.22	.78	1.0	1.0	4.0	6.9	11	2.2	.63	.86	.35
28	.08	.23	.78	1.0	1.0	4.0	6.1	11	2.1	.60	1.5	.38
29	.10	.23	.78	1.0	-----	4.0	5.8	12	2.1	.55	4.5	.38
30	.11	.24	.78	1.0	-----	4.0	5.8	13	2.0	.49	.96	.51
31	.12	-----	.78	1.0	-----	4.0	-----	14	-----	.46	.86	-----
TOTAL	14.71	5.70	23.94	29.02	28.0	94.5	213.0	429.2	166.3	35.93	64.33	14.44
MEAN	.47	.19	.77	.94	1.00	3.05	7.10	13.8	5.54	1.16	2.08	.48
MAX	1.7	.34	.78	1.0	1.0	5.0	10	22	11	1.9	8.3	1.3
MIN	.02	.07	.54	.78	1.0	1.0	4.0	6.4	2.0	.46	.36	.29
AC-FT	29	11	47	58	56	187	422	851	330	71	128	29

CAL YR 1970 TOTAL 914.14 MEAN 2.50 MAX 31 MIN .02 AC-FT 1,810
WTR YR 1971 TOTAL 1,119.07 MEAN 3.07 MAX 22 MIN .02 AC-FT 2,220

PEAK DISCHARGE (BASE, 100 CFS).--Aug. 16 (2100) 119 cfs (2.84 ft).

NOTE.--No gage-height record Jan. 16 to Feb. 15.

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 downstream from railroad bridge at Woodside, and 22 miles upstream from mouth.

DRAINAGE AREA.--1,500 sq mi, 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 (by barometer). September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945, to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

AVERAGE DISCHARGE.--25 years, 102 cfs (73,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,310 cfs Aug. 27 (gage height, 4.68 ft, from floodmark); minimum daily, 18 cfs Feb. 28. Period of record: Maximum discharge, 8,500 cfs Sept. 10, 1961 (gage height, 9.74 ft), from rating curve extended above 6,300 cfs; no flow for several days in 1960, 1961, and part of July 8, 1963.

REMARKS.--Records good except those for winter periods, which are fair. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir since 1926 (see station 09311000). Records of chemical analysis and water temperatures for the water year 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	64	69	25	40	31	144	68	185	74	30	142
2	60	68	66	25	40	34	107	58	177	79	35	108
3	61	65	55	25	40	42	119	58	150	76	40	108
4	60	60	51	25	40	69	109	76	150	72	41	108
5	62	57	64	25	40	78	102	86	150	79	46	107
6	60	63	61	25	50	65	89	97	150	73	111	37
7	61	70	60	25	57	57	97	88	150	61	50	36
8	66	72	65	25	58	59	95	184	150	59	52	38
9	66	73	58	25	54	61	99	204	150	60	48	45
10	61	69	66	25	60	57	95	166	150	66	45	46
11	61	67	62	25	73	65	96	144	150	57	45	38
12	64	66	49	25	71	66	92	145	150	55	41	36
13	62	62	50	25	71	73	99	108	150	36	38	34
14	56	64	50	25	73	113	93	135	147	36	34	31
15	53	61	50	25	86	82	90	122	135	43	32	31
16	51	55	50	30	84	67	84	126	100	41	32	30
17	49	55	40	30	73	58	72	137	87	39	42	29
18	52	58	40	30	73	56	76	164	76	40	35	30
19	53	62	40	30	68	54	86	153	82	42	36	32
20	54	68	40	30	65	47	93	133	82	48	37	39
21	50	67	30	30	56	53	101	118	83	70	295	47
22	58	70	30	30	47	68	89	287	84	81	93	51
23	56	76	30	30	44	118	88	171	85	81	65	49
24	57	75	30	30	47	159	74	106	84	68	77	49
25	57	72	30	30	45	150	74	95	81	66	53	46
26	61	70	30	30	49	126	101	83	77	61	53	47
27	63	72	30	30	30	148	101	107	74	59	212	50
28	63	74	30	30	18	172	88	113	74	53	207	52
29	63	71	30	30	-----	137	87	121	74	45	232	54
30	61	68	30	30	-----	121	76	131	74	38	285	55
31	59	-----	30	30	-----	131	-----	160	-----	33	166	-----
TOTAL	1,817	1,994	1,416	855	1,552	2,617	2,816	3,944	3,511	1,791	2,608	1,605
MEAN	58.6	66.5	45.7	27.6	55.4	84.4	93.9	127	117	57.8	84.1	53.5
MAX	66	76	69	30	86	172	144	287	185	81	295	142
MIN	49	55	30	25	18	31	72	58	74	33	30	29
AC-FT	3,600	3,960	2,810	1,700	3,080	5,190	5,590	7,820	6,960	3,550	5,170	3,180

CAL YR 1970 TOTAL 31,735 MEAN 86.9 MAX 1,790 MIN 25 AC-FT 62,950
WTR YR 1971 TOTAL 26,526 MEAN 72.7 MAX 295 MIN 18 AC-FT 52,610

PEAK DISCHARGE (BASE, 2,000 CFS).--No peaks above base.

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 upstream from site of old highway bridge, 500 ft upstream from railroad bridge, 1 mile southeast of town of Green River, 22 miles upstream from San Rafael River, at mile 117.4 upstream from mouth.

DRAINAGE AREA.--40,600 sq mi, 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 above mean sea level. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 miles of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 miles 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 downstream at present datum.

AVERAGE DISCHARGE.--72 years, 6,359 cfs (4,607,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 22,490 cfs June 21 (gage height, 11.04 ft); minimum discharge, 1,680 cfs Mar. 3 (gage height, 5.98 ft).

Period of record: Maximum discharge, 68,100 cfs June 27, 1917 (gage height, 14.53 ft, site and datum then in use); minimum, 255 cfs Nov. 26, 1931; minimum gage height, 4.08 ft 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,940	2,800	2,770	1,860	3,200	2,280	7,370	9,080	17,300	14,400	3,380	3,360
2	2,650	2,720	2,830	1,800	3,240	2,170	6,200	7,560	19,500	13,000	3,370	3,370
3	3,190	2,600	2,830	1,800	3,230	1,820	6,050	6,740	21,000	11,700	3,200	3,370
4	3,530	2,500	2,770	1,800	3,250	2,430	6,590	6,910	18,500	10,700	3,080	3,440
5	3,410	2,450	2,690	1,800	3,300	2,240	6,320	6,730	15,900	9,720	3,020	3,380
6	2,890	2,430	2,850	1,800	3,300	2,580	5,560	8,310	14,700	8,950	2,940	3,360
7	2,870	2,510	2,640	1,800	3,250	2,850	5,300	11,600	14,800	8,500	3,150	3,520
8	2,340	2,470	2,510	1,800	3,100	2,880	4,810	13,400	14,700	7,990	3,300	3,700
9	2,570	2,430	2,420	1,770	2,900	2,620	4,680	12,600	13,800	7,590	3,300	3,530
10	2,880	2,500	2,430	1,790	2,740	2,510	4,980	11,600	13,800	6,980	3,240	3,440
11	2,670	2,530	2,420	2,430	2,650	2,730	5,300	11,600	14,300	6,580	3,250	3,650
12	2,530	2,520	2,480	2,500	2,570	2,750	5,830	12,100	15,500	6,320	3,230	3,880
13	2,570	2,590	2,500	2,500	2,820	2,610	6,420	12,200	16,000	6,110	3,200	3,950
14	3,010	2,650	2,510	2,500	3,210	2,760	7,160	11,800	16,000	5,830	3,130	3,840
15	3,040	2,770	2,360	2,500	3,170	2,920	8,970	10,900	15,900	5,510	3,110	3,870
16	2,840	2,770	2,570	2,730	3,090	2,960	9,790	11,300	16,600	5,430	3,050	3,840
17	2,880	2,780	2,430	2,730	3,090	3,020	10,300	13,900	18,800	5,140	3,050	3,690
18	3,210	2,740	2,240	2,700	3,200	2,910	10,200	16,000	20,000	5,140	3,090	3,580
19	3,080	2,700	2,400	2,630	3,260	2,740	10,900	17,100	21,200	5,100	3,040	3,400
20	2,860	2,750	2,290	2,540	3,370	2,740	12,200	17,400	21,700	4,770	3,080	3,530
21	2,850	2,690	2,570	2,840	3,150	2,790	12,300	16,100	21,900	4,660	3,350	3,570
22	2,850	2,640	2,590	3,140	3,000	2,670	11,400	13,500	21,900	4,460	3,260	3,480
23	2,750	2,720	2,100	3,100	2,900	2,540	10,700	11,800	21,100	4,240	3,090	3,420
24	2,720	3,130	1,800	3,100	2,700	3,270	9,870	10,500	20,700	4,250	3,020	3,360
25	2,690	2,910	1,800	3,100	2,570	3,500	8,990	9,720	20,300	4,270	3,120	3,270
26	2,720	2,710	1,800	3,100	2,400	3,750	9,390	10,100	19,500	4,220	3,040	3,290
27	2,700	2,610	1,810	3,100	2,300	4,710	8,940	11,000	18,900	4,090	3,000	3,330
28	2,650	2,900	1,830	3,100	2,170	4,810	8,200	11,000	18,100	3,930	3,680	3,370
29	2,670	2,900	1,870	3,100	-----	5,450	8,090	10,700	16,900	3,640	3,370	3,430
30	2,670	2,830	1,900	3,200	-----	7,140	8,770	12,100	15,300	3,510	3,670	3,410
31	2,700	-----	1,970	3,200	-----	8,520	-----	14,800	-----	3,410	3,500	-----
TOTAL	87,930	80,250	72,980	77,860	83,130	101,670	241,580	360,150	534,600	200,140	99,310	105,630
MEAN	2,836	2,675	2,354	2,512	2,969	3,280	8,053	11,620	17,820	6,456	3,204	3,521
MAX	3,530	3,130	2,850	3,200	3,370	8,520	12,300	17,400	21,900	14,400	3,680	3,950
MIN	2,340	2,430	1,800	1,770	2,170	1,820	4,680	6,730	13,800	3,410	2,940	3,270
AC-FT	174,400	159,200	144,800	154,400	164,900	201,700	479,200	714,400	1,060M	397,000	197,000	209,500
CAL YR 1970	TOTAL 2,008,490 MEAN 5,503 MAX 23,200 MIN 1,800 AC-FT 3,984,000											
WTR YR 1971	TOTAL 2,045,230 MEAN 5,603 MAX 21,900 MIN 1,770 AC-FT 4,057,000											

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-19	2300	10.01	17,500	6-21	2100	11.04	22,490
6-03	0700	10.83	21,460				

GREEN RIVER BASIN

09318000 Huntington Creek near Huntington, Utah

LOCATION.--Lat 39°22'17", long 111°03'43", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.17 S., R.8 E., Emery County, on left bank about 300 feet downstream from farm-road bridge, 1 mile upstream from Fish Creek, and 7 miles northwest of Huntington.

DRAINAGE AREA.--190 sq mi, approximately.

PERIOD OF RECORD.--May 1909 to September 1917, October 1918 to November 1920 (fragmentary), April 1921 to May 1930, October 1930 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft (from river profile map). Prior to Apr. 30, 1913, nonrecording gage 5 ft downstream at different datum. May 1, 1913, to Sept. 10, 1917, water-stage recorder at site 95 ft upstream, datum same as that of preceding gage. Sept. 11, 1917 to May 28, 1934, water-stage recorder at approximately same site and datum.

AVERAGE DISCHARGE.--56 years (1910-17, 1921-29, 1930-71), 96.7 cfs (70,060 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 489 cfs May 17 (gage height, 4.22 ft); minimum, 13 cfs Mar. 19.

Period of record: Maximum discharge, 2,500 cfs Aug. 2 or 3, 1930 (gage height, 7.5 ft, from floodmark), from rating curve extended above 600 cfs; minimum recorded, 2 cfs Nov. 5, 1926.

REMARKS.--Records good except those for winter period, which are fair. Small diversions for irrigation above station, including transmountain diversions to tributaries of San Pitch River (Sevier Lake basin). Slight regulation by small reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	42	35	30	34	27	55	190	218	132	145	61
2	64	36	37	30	34	27	52	230	217	134	143	57
3	62	34	33	30	34	27	52	285	219	124	141	65
4	58	36	36	30	35	27	51	282	220	118	147	67
5	56	38	38	30	35	27	55	220	238	111	149	62
6	54	36	31	30	35	30	63	209	236	123	127	59
7	52	38	33	30	35	30	70	204	253	164	119	70
8	48	36	44	30	35	30	70	185	277	155	84	78
9	46	36	37	30	35	36	81	170	270	149	102	59
10	44	39	35	30	35	36	99	180	297	144	107	56
11	42	35	34	30	35	36	114	190	306	141	99	55
12	40	38	34	30	35	37	126	200	265	136	96	54
13	40	37	34	30	35	37	139	220	269	131	96	53
14	37	33	34	30	35	34	147	260	316	127	97	52
15	36	31	34	30	38	35	133	310	358	139	104	60
16	36	41	30	30	37	36	167	350	366	137	138	62
17	37	41	30	30	37	36	171	260	366	137	137	63
18	36	41	30	30	36	33	148	230	352	177	138	65
19	41	34	30	30	34	35	145	232	320	182	132	64
20	66	35	30	30	30	35	120	235	304	178	129	65
21	67	42	30	30	27	35	111	232	291	169	129	66
22	70	37	30	30	27	37	110	247	276	168	112	65
23	70	34	30	30	27	40	111	220	264	165	115	65
24	74	32	30	30	27	45	101	216	253	159	106	65
25	68	34	30	30	27	41	98	250	232	101	111	64
26	72	37	30	30	27	46	93	278	209	112	110	64
27	71	37	30	30	27	59	90	300	192	109	93	70
28	68	36	30	30	27	62	96	286	182	107	90	65
29	70	37	30	30	-----	60	144	279	165	126	91	67
30	68	37	30	30	-----	60	154	263	146	127	84	70
31	69	-----	30	30	-----	56	-----	237	-----	127	73	-----
TOTAL	1,726	1,100	1,009	930	915	1,192	3,166	7,450	7,877	4,309	3,544	1,888
MEAN	55.7	36.7	32.5	30.0	32.7	38.5	106	240	263	139	114	62.9
MAX	74	42	44	30	38	62	171	350	366	182	149	78
MIN	36	31	30	30	27	27	51	170	146	101	73	52
AC-FT	3,420	2,180	2,000	1,840	1,810	2,360	6,280	14,780	15,620	8,550	7,030	3,740

CAL YR 1970 TOTAL 41,425 MEAN 113 MAX 623 MIN 23 AC-FT 82,170
WTR YR 1971 TOTAL 35,106 MEAN 96.2 MAX 366 MIN 27 AC-FT 69,630

PEAK DISCHARGE (BASE, 400 CFS).--May 17 (time unknown) 489 cfs (4.22 ft); June 16 (0100) 404 cfs (4.00 ft).

GREEN RIVER BASIN

91

09319000 Ephraim tunnel near Ephraim, Utah
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.17 S., R.4 E., Sanpete County, at east tunnel portal, 9 miles 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.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft above mean sea level. (Levels by U.S. Geological Survey, Topographic Division.)

AVERAGE DISCHARGE.--22 years, 5.27 cfs (3,820 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 104 cfs June 16 (gage height, 4.56 ft); minimum, no flow many days.
Period of record: Maximum discharge, 142 cfs June 6, 1964 (gage height, 5.43 ft); no flow at times in some years.

REMARKS.--Records fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	26	19	2.5	.69
2								0	28	17	2.3	.65
3								0	33	16	2.2	1.1
4								0	39	15	2.6	.66
5								0	45	14	2.2	.52
6								0	51	12	2.0	.45
7								0	67	12	1.6	1.7
8								0	65	12	1.6	.80
9								0	61	11	1.6	.63
10								0	63	10	2.0	.20
11								.11	51	9.2	2.7	0
12								1.2	37	8.7	2.6	0
13								3.7	43	8.3	3.0	0
14								7.6	62	7.8	3.3	0
15								13	78	7.4	3.8	0
16								21	87	7.0	3.4	0
17								25	83	6.9	3.2	0
18								25	68	7.1	4.4	0
19								24	58	7.0	6.0	0
20								23	54	6.4	8.7	0
21								24	53	5.9	8.9	0
22								24	52	5.4	9.2	0
23								24	53	4.9	4.9	0
24								23	47	4.5	4.3	0
25								23	42	4.2	2.6	0
26								33	35	4.0	2.1	0
27								55	31	3.7	7.2	0
28								60	27	3.4	7.6	0
29					-----			48	23	3.2	.69	0
30					-----			34	21	3.0	.57	0
31		-----			-----		-----	29	-----	2.8	.45	-----
TOTAL								520.61	1,483	258.8	110.21	7.40
MEAN								16.8	49.4	8.35	3.56	.25
MAX								60	87	19	9.2	1.7
MIN								0	21	2.8	.45	0
AC-FT								1,030	2,940	513	219	15

NOTE.--No gage-height record Oct. 1 to May 1; estimated at 42 acre-ft for this period.

GREEN RIVER BASIN

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 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.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft 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 higher.

AVERAGE DISCHARGE.--22 years, 2.69 cfs (1,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 59 cfs June 16, 17 (gage height, 1.69 ft); no flow on several days.
Period of record: Maximum discharge, 111 cfs July 23, 1965; no flow at times in most years.

REMARKS.--Records poor. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96							5.2	7.4	13	1.3	1.7
2	.96							5.8	7.3	12	1.2	1.5
3	.96							6.4	9.1	11	1.5	2.2
4	.99							6.7	11	11	1.7	1.8
5	.93							6.6	14	9.9	2.0	1.5
6	.99							6.1	17	9.2	1.9	1.4
7	.83							5.4	20	8.6	2.0	3.2
8	1.1							5.4	26	8.1	2.5	1.7
9	.99							5.1	31	7.8	3.4	1.5
10	.92							4.7	37	7.6	2.8	1.4
11	1.0							4.5	35	5.5	2.3	1.4
12	1.2							4.5	30	4.8	1.8	1.4
13	1.1							4.8	33	4.3	1.1	1.3
14	.91							5.4	40	3.7	.15	1.2
15	.93							6.2	44	3.5	0	1.3
16	.50							7.0	47	3.5	0	1.0
17	.50							6.6	47	3.1	0	1.1
18	.50							6.0	42	2.8	0	1.0
19	.50							5.3	42	3.1	0	1.0
20	.50							4.7	41	3.4	0	1.1
21	.40							5.0	41	3.0	0	1.1
22	.20							5.1	40	2.6	.75	1.0
23	.10							4.8	39	2.5	.25	.94
24	0							4.6	36	2.4	2.0	.90
25	0							5.8	34	2.2	2.1	.90
26	0							7.1	31	1.5	2.0	.90
27	0							9.0	27	1.4	2.5	.89
28	0							11	22	1.3	2.8	.78
29	0				-----			10	17	1.7	2.0	.80
30	0				-----			9.1	14	1.6	1.8	.80
31	0	-----			-----		-----	8.2	-----	1.5	1.7	-----
TOTAL	17.97							192.1	881.8	157.6	43.55	38.71
MEAN	.58							6.20	29.4	5.08	1.40	1.29
MAX	1.2							11	47	13	3.4	3.2
MIN	0							4.5	7.3	1.3	0	.78
AC-FT	36							381	1,750	313	86	77

NOTE.--No gage-height record Nov. 1 to Apr. 30; 32 acre-ft estimated for this period. No gage-height record May 11 to June 10, and July 11 to Aug. 9.

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 upstream from Cottonwood Creek, and 12 miles west of Orangeville.

DRAINAGE AREA.--145 sq mi, 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 (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 64,470 acre-ft June 21, 22 (elevation, 6,991.4 ft); minimum observed, 43,360 acre-ft Oct. 27-31, Nov. 2.

Period of record: Maximum contents observed, 64,830 acre-ft June 4, 5, 1970; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevation 6,910.0 and 6,989.7 ft above mean sea level. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 6,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. 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 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46,370				46,860	47,640			55,990	63,640		49,030
2	46,180	43,360					48,930			63,520	55,660	
3								50,560		63,400	55,440	48,730
4			44,380	45,420		47,840		50,250	57,210	63,280		
5	45,890				46,950		49,030			63,050	54,890	
6	45,700	43,550									54,680	
7	45,510		44,760					50,250	58,100			48,330
8	45,320			45,510	46,950	47,940	49,230		58,780			
9	45,130	43,640					49,330			62,000	53,920	48,130
10								50,250	59,920		53,710	
11			44,940	45,700					60,490		53,600	
12	44,760				47,250	48,130	49,740			61,180	53,280	
13	44,660	43,730								60,840	52,960	47,640
14	44,570		44,940					50,350	61,650			47,540
15	44,470			45,800		48,130			62,350	60,780		
16		43,820			47,350		50,040			60,150	52,220	47,150
17								51,070			51,900	
18			45,130						63,760		51,700	
19	44,010	43,920		45,180	47,350	48,130	50,350			59,350	51,490	
20	43,920			46,370								46,370
21	43,820		45,130					51,900	64,470			46,280
22	43,730			46,470	47,250	48,430			64,470	58,670		
23	43,640	44,100	45,230				50,560			58,330	50,450	45,990
24								52,220				45,850
25		44,200		46,470					64,350			
26	43,460				47,540	48,630	50,560			57,540		
27	43,360	44,290								57,210	49,740	45,610
28	43,360		45,320		a 47,540			54,030	64,350	56,870		45,510
29	43,360			46,470	-----	48,730						
30	43,360	44,380			-----		50,560		63,870	56,430	49,130	45,320
31	a 43,360	-----	45,320	a 46,660	-----	a 48,830	-----	a 55,440	-----	a 56,210	a 49,130	-----
(†)	-----	6,972.6	6,973.6	-----	-----	-----	6,978.9	-----	6,990.9	-----	-----	6,973.6
(‡)	-3,110	+1,020	+940	+1,340	+880	+1,290	+1,730	+4,880	+8,430	-7,660	-7,080	-3,810

CAL YR 1970..... ‡ -3,860

WTR YR 1971..... ‡ -1,150

† 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 upstream from Dry Wash and 4.5 miles west of Ferron.

DRAINAGE AREA.--138 sq mi, revised.

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 downstream published as Ferron Creek near Ferron, April 1909 to October 1911, not equivalent because of diversions 1.5 miles downstream from present site.

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft (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 downstream at different datum.

AVERAGE DISCHARGE.--36 years, 68.0 cfs (49,270 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 498 cfs Aug. 25 (gage height, 3.31 ft); minimum, 4.4 cfs Apr. 1.

Period of record: Maximum discharge observed, 4,180 cfs Aug. 27, 1952 (gage height, 9.71 ft, site and datum then in use), from rating table extended above 400 cfs on basis of slope-area measurements at gage heights 8.70 and 9.71 ft, site and datum then in use; minimum observed, 1 cfs Mar. 22, 23, 1912, Mar. 11, Nov. 18, 1959, site then in use.

REMARKS.--Records good except those for winter period, which are fair. 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 below station.

REVISIONS (WATER YEARS).--WSP 1243: 1951 (P). WSP 1313: 1920 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	12	7.0	10	10	16	79	179	170	46	24
2	17	12	12	7.0	10	10	17	126	185	163	44	22
3	17	9.3	12	7.0	10	10	21	142	187	154	43	28
4	17	13	12	7.0	10	10	20	140	196	149	46	25
5	17	17	12	7.0	10	10	24	111	208	135	50	22
6	18	14	10	7.0	10	10	29	108	208	126	51	21
7	18	15	10	7.0	10	10	35	99	254	119	45	31
8	19	11	10	7.0	10	10	34	94	253	119	47	28
9	19	14	10	7.0	10	10	46	86	235	112	67	22
10	19	16	10	7.0	10	10	57	85	301	105	57	20
11	20	13	10	7.0	14	10	64	82	297	100	41	19
12	21	14	10	7.0	14	10	72	94	247	95	52	18
13	23	13	10	7.0	12	10	77	107	268	93	90	18
14	19	7.2	10	7.0	13	10	79	141	317	89	87	17
15	17	12	10	7.0	12	10	76	180	357	86	86	16
16	16	12	7.0	7.0	11	10	92	214	365	82	83	16
17	19	12	7.0	7.0	10	9.3	93	172	368	81	81	16
18	16	12	7.0	7.0	12	11	81	138	333	81	77	16
19	20	12	7.0	7.0	11	11	65	126	312	79	75	16
20	17	12	7.0	7.0	11	12	60	127	299	96	70	17
21	17	12	7.0	7.0	10	14	57	136	295	75	70	17
22	16	14	7.0	7.0	10	19	52	139	294	71	35	16
23	13	13	7.0	7.0	10	37	56	127	286	65	33	16
24	18	13	7.0	7.0	10	35	51	143	271	63	26	16
25	12	15	7.0	7.0	10	26	48	187	249	61	62	16
26	15	14	7.0	7.0	10	50	44	224	233	59	43	15
27	13	13	7.0	7.0	10	49	43	252	223	57	43	14
28	13	13	7.0	7.0	10	32	43	266	219	54	69	14
29	16	12	7.0	7.0	-----	28	44	232	202	51	53	15
30	16	12	7.0	9.0	-----	34	51	206	186	50	51	15
31	16	-----	7.0	9.0	-----	34	-----	203	-----	48	33	-----
TOTAL	532	386.5	272.0	221.0	300	561.3	1,547	4,566	7,827	2,888	1,756	566
MEAN	17.2	12.9	8.77	7.13	10.7	18.1	51.6	147	261	93.2	56.6	18.9
MAX	23	17	12	9.0	14	50	93	266	368	170	90	31
MIN	12	7.2	7.0	7.0	10	9.3	16	79	179	48	26	14
AC-FT	1,060	767	540	438	595	1,110	3,070	9,060	15,520	5,730	3,480	1,120

CAL YR 1970 TOTAL 24,484.0 MEAN 67.1 MAX 515 MIN 7.0 AC-FT 48,560
WTR YR 1971 TOTAL 21,422.8 MEAN 58.7 MAX 368 MIN 7.0 AC-FT 42,490

PEAK DISCHARGE (BASE, 600 CFS).--No peaks 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 upstream from bridge on State Highway 24, 15 miles southwest of Green River, and 35 miles upstream from mouth.

DRAINAGE AREA.--1,670 sq mi, 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 (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 downstream at different datum, Sept. 10, 1947 to Apr. 16, 1950, at site 50 ft downstream at different datum, Apr. 17, 1950 to June 21, 1954, at present site at datum 6.35 ft higher, June 22, 1954 to Sept. 30, 1955, at present site at datum 5.35 ft higher, Oct. 1, 1955 to Feb. 14, 1958, at present site at datum 4.35 ft higher, Feb. 15, 1958 to Sept. 19, 1962, at present site at datum 1.35 ft higher, Sept. 1962 to July 1968, at present site at datum 0.95 ft lower, and July 1968 to March 1970 at present site at datum 0.55 ft lower.

AVERAGE DISCHARGE.--35 years (1909-18, 1945-71), 161 cfs (116,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 922 cfs July 22 (gage height, 9.16 ft); minimum daily, 20 cfs Jan. 3-15.

Period of record: Maximum discharge, 12,000 cfs Sept. 2, 1909 (gage height, 12.7 ft, site and datum then in use), from rating curve extended above 3,100 cfs by logarithmic plotting; no flow at times in some years.

REMARKS.--Records fair. Diversions above station for irrigation of about 42,000 acres. 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 1971 will be published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1213: 1950. WSP 1343: 1909-12, 1917 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	67	50	35	30	35	38	41	137	64	45	66
2	40	67	54	25	30	35	70	40	131	63	42	61
3	40	66	52	20	30	35	69	38	108	62	41	50
4	39	63	51	20	30	35	52	38	95	62	40	44
5	41	58	52	20	30	35	50	45	82	62	39	40
6	46	54	43	20	30	50	48	43	81	62	42	39
7	48	53	53	20	30	50	42	47	83	58	45	39
8	51	52	52	20	30	50	40	56	84	101	45	37
9	57	52	52	20	30	50	38	60	84	87	42	37
10	52	53	58	20	30	50	37	70	77	64	40	38
11	53	48	58	20	30	60	37	76	73	62	39	37
12	53	48	48	20	35	86	37	74	75	56	36	35
13	53	46	27	20	40	95	37	69	99	54	33	35
14	54	45	31	20	47	89	37	63	96	51	32	34
15	55	45	34	20	46	74	37	62	96	52	30	32
16	52	43	40	30	46	87	37	62	98	46	30	32
17	51	40	49	30	43	79	40	68	97	48	30	30
18	52	42	45	30	45	54	45	98	150	46	33	33
19	55	45	45	30	48	51	47	84	100	46	35	35
20	58	47	45	30	50	45	50	81	80	102	35	40
21	57	47	45	30	47	44	54	78	76	256	132	42
22	57	46	45	30	36	46	58	73	74	396	154	45
23	59	50	48	30	35	47	54	75	72	195	152	45
24	62	50	46	30	35	47	51	74	70	172	115	43
25	62	50	45	30	35	56	48	75	68	115	59	41
26	62	49	45	30	35	50	52	68	67	80	89	38
27	61	49	45	30	35	46	49	68	66	70	84	37
28	63	51	45	30	35	42	45	70	66	65	67	37
29	67	54	45	30	-----	43	44	66	64	55	198	38
30	66	50	45	30	-----	40	43	99	64	50	227	39
31	67	-----	45	30	-----	38	-----	113	-----	47	78	-----
TOTAL	1,671	1,530	1,438	800	1,023	1,644	1,386	2,074	2,613	2,749	2,109	1,199
MEAN	53.9	51.0	46.4	25.8	36.5	53.0	46.2	66.9	87.1	88.7	68.0	40.0
MAX	67	67	58	35	50	95	70	113	150	396	227	66
MIN	38	40	27	20	30	35	37	38	64	46	30	30
AC-FT	3,310	3,030	2,850	1,590	2,030	3,260	2,750	4,110	5,180	5,450	4,180	2,380
CAL YR 1970	TOTAL 48,957	MEAN 134	MAX 1,470	MIN 26	AC-FT 97,110							
WTR YR 1971	TOTAL 20,236	MEAN 55.4	MAX 396	MIN 20	AC-FT 40,140							

PEAK DISCHARGE (BASE, 1,300 CFS).--No peaks above base.

NOTE.--No gage-height record Jan. 1 to Feb. 10.

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 upstream from bridge on State Highway 25, about 0.8 mile upstream from mouth, and 4 miles northeast of north end of Fish Lake.

DRAINAGE AREA.--25 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 14.7 cfs (10,650 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 115 cfs May 27 (gage height, 2.71 ft); minimum, 2.6 cfs Nov. 7, result of freezeup.
Period of record: Maximum discharge, 215 cfs June 1, 1968 (gage height, 3.43 ft); minimum, 2.0 cfs Oct. 23, 1965.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	11	9.3	7.0	7.7	15	30	41	21	13	13
2	13	11	11	9.0	8.2	7.4	11	41	44	19	13	12
3	13	11	10	8.8	6.1	7.4	9.6	46	45	18	13	16
4	13	11	10	9.0	8.2	7.7	9.6	41	44	18	14	14
5	13	11	10	8.8	8.8	7.4	10	30	44	17	14	13
6	13	12	10	8.8	8.5	7.4	12	31	46	16	14	12
7	11	9.0	10	8.5	8.5	7.4	15	29	49	17	13	23
8	11	10	10	8.5	8.5	7.4	15	24	44	16	13	16
9	16	10	10	8.5	8.2	7.4	19	25	42	15	13	13
10	15	10	8.2	8.8	7.9	7.4	24	31	45	15	12	13
11	15	10	11	8.8	7.7	7.4	32	40	47	14	12	12
12	19	10	10	8.5	7.4	7.4	33	40	42	14	12	12
13	18	9.7	9.8	8.5	7.4	7.4	37	41	42	14	12	12
14	15	9.0	9.8	8.5	7.7	7.4	35	54	43	15	11	12
15	13	8.6	9.6	8.2	7.7	7.4	36	65	42	16	12	11
16	12	8.8	9.8	8.5	7.4	7.4	45	62	42	15	12	11
17	12	9.0	9.8	9.0	7.4	7.2	40	48	41	15	12	12
18	14	9.3	9.6	10	7.7	7.4	28	36	39	15	12	12
19	13	10	9.6	11	7.7	7.4	21	35	36	17	12	12
20	12	11	9.6	12	7.7	7.4	18	44	34	19	12	12
21	12	11	9.6	13	7.4	7.4	17	58	32	24	12	12
22	12	10	9.6	12	7.9	7.7	16	51	31	17	16	12
23	11	10	9.6	9.8	7.7	7.7	15	37	29	15	14	12
24	11	11	9.3	9.3	7.7	7.7	14	46	28	14	13	12
25	11	11	9.6	9.0	7.4	7.7	13	60	27	14	20	12
26	11	11	9.6	8.8	7.7	9.0	15	69	25	14	16	11
27	11	11	9.6	8.5	7.7	11	14	78	24	13	14	11
28	11	11	9.3	8.5	7.7	11	14	66	23	13	19	11
29	11	11	9.3	8.2	-----	10	14	52	22	13	15	11
30	11	9.8	9.0	7.9	-----	12	18	46	21	13	15	12
31	13	-----	9.3	8.2	-----	12	-----	47	-----	13	14	-----
TOTAL	399	310.2	302.6	284.2	216.9	251.6	615.2	1,403	1,114	489	419	379
MEAN	12.9	10.3	9.76	9.17	7.75	8.12	20.5	45.3	37.1	15.8	13.5	12.6
MAX	19	13	11	13	8.8	12	45	78	49	24	20	23
MIN	11	8.6	8.2	7.9	6.1	7.2	9.6	24	21	13	11	11
AC-FT	791	615	600	564	430	499	1,220	2,780	2,210	970	831	752

CAL YR 1970 TOTAL 6,838.9 MEAN 18.7 MAX 122 MIN 6.7 AC-FT 13,560
WTR YR 1971 TOTAL 6,183.7 MEAN 16.9 MAX 78 MIN 6.1 AC-FT 12,270

PEAK DISCHARGE (BASE, 80 CFS).--May 15 (2100) 82 cfs (2.38 ft); May 27 (2100) 115 cfs (2.71 ft).

DIRTY DEVIL RIVER BASIN

97

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 upstream from mouth and 5.5 miles southwest of Bicknell.

DRAINAGE AREA.--100 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,100 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 4.01 cfs (2,910 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 59 cfs Apr. 13 (gage height, 2.28 ft); minimum daily, 1.2 cfs Jan. 5.

Period of record: Maximum discharge, 707 cfs Aug. 2, 1968 (gage height, 4.85 ft), from estimate based on field survey of peak flow; minimum, 0.20 cfs Dec. 2, 1967, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.0	1.8	1.9	3.2	1.8	5.9	3.4	2.5	2.0	2.4	3.6
2	4.4	5.0	1.8	1.8	3.2	1.9	4.4	6.4	2.4	2.0	2.0	3.2
3	4.5	4.8	1.8	1.6	3.0	1.9	3.2	5.2	2.3	1.8	2.2	3.3
4	4.5	4.7	1.8	1.4	2.8	1.8	3.0	3.8	2.4	1.8	2.2	3.3
5	4.6	5.0	1.8	1.2	3.1	2.3	3.9	3.8	2.9	1.8	2.3	3.3
6	4.5	4.9	1.8	1.3	3.0	2.3	4.2	3.7	2.1	1.9	2.5	3.0
7	5.0	5.1	1.8	1.3	2.9	3.1	5.0	3.6	2.3	1.9	2.4	2.9
8	4.8	4.9	2.1	1.4	2.8	3.7	4.5	3.5	2.2	1.9	2.3	2.7
9	4.8	4.9	2.0	1.6	2.7	4.2	3.9	3.4	2.3	1.9	2.0	2.6
10	4.7	4.9	1.8	3.5	2.9	4.3	6.2	3.3	2.2	1.9	1.9	2.4
11	4.9	5.4	1.7	3.4	3.0	4.4	8.4	3.0	2.6	1.8	1.8	2.4
12	4.9	5.1	1.7	3.3	3.0	4.5	20	2.7	2.6	1.8	1.7	2.4
13	4.9	4.7	1.7	3.2	3.1	5.2	28	2.8	2.4	2.1	1.5	2.5
14	4.8	4.3	1.9	3.0	3.1	5.8	26	2.8	2.3	2.4	1.5	2.2
15	4.8	4.2	2.0	2.9	3.1	5.8	10	3.2	2.2	2.8	1.8	1.9
16	5.0	4.2	2.0	3.0	3.1	5.6	6.2	2.6	2.2	4.0	2.2	1.8
17	4.9	4.2	2.1	3.1	3.0	5.1	13	2.1	2.2	4.8	2.8	2.0
18	4.9	4.2	2.0	3.2	2.5	5.0	4.5	2.1	2.2	5.3	3.6	2.2
19	4.9	4.3	1.7	3.4	2.0	4.9	4.3	2.1	2.2	5.2	3.5	2.2
20	4.8	4.5	1.7	3.5	2.0	4.7	4.2	2.1	2.3	5.8	4.1	2.4
21	4.9	4.8	1.9	3.5	2.0	4.8	4.2	2.0	2.2	7.0	4.1	2.3
22	5.0	5.0	1.9	3.6	1.9	4.4	4.0	2.5	2.3	6.0	4.4	2.4
23	5.0	5.2	1.8	3.5	1.8	4.3	4.1	2.8	2.2	4.5	4.6	1.9
24	4.9	5.2	1.7	3.4	1.9	4.2	4.1	2.5	2.0	3.5	5.0	1.9
25	4.9	5.1	1.6	3.4	2.0	4.2	4.1	2.7	2.0	3.1	5.2	1.9
26	4.6	5.1	1.6	3.3	2.0	4.5	3.6	2.4	2.0	2.4	5.0	1.9
27	4.5	5.0	1.7	3.3	1.8	9.9	3.7	2.3	2.0	2.8	5.0	2.2
28	4.5	4.8	1.8	3.2	1.7	9.8	3.7	2.3	2.0	2.9	4.7	1.9
29	4.5	4.2	1.9	3.1	-----	6.0	3.6	2.4	2.0	3.0	4.2	1.8
30	4.8	2.3	1.9	3.0	-----	8.6	3.6	2.5	2.0	3.0	4.5	1.9
31	5.0	-----	2.0	3.2	-----	12	-----	2.5	-----	2.8	4.0	-----
TOTAL	147.6	141.0	56.8	85.5	72.6	151.0	207.5	92.5	67.5	95.9	97.4	72.4
MEAN	4.76	4.70	1.83	2.76	2.59	4.87	6.92	2.98	2.25	3.09	3.14	2.41
MAX	5.0	5.4	2.1	3.6	3.2	12	28	6.4	2.9	7.0	5.2	3.6
MIN	4.4	2.3	1.6	1.2	1.7	1.8	3.0	2.0	2.0	1.8	1.5	1.8
AC-FT	293	280	113	170	144	300	412	183	134	190	193	144

CAL YR 1970 TOTAL 2,494.2 MEAN 6.83 MAX 136 MIN 1.6 AC-FT 4,950
WTR YR 1971 TOTAL 1,287.7 MEAN 3.53 MAX 28 MIN 1.2 AC-FT 2,550

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

DIRTY DEVIL RIVER BASIN

09330210 Pleasant Creek near Caineville, Utah

LOCATION.--Lat 38°16'20", long 111°05'30", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.29 S., R.7 E., Wayne County, on right bank 0.2 mile upstream from mouth with the confluence of the Fremont River, 6.5 miles west of Caineville.

DRAINAGE AREA.--115 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,880 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 520 cfs Aug. 27 (gage height, 3.24 ft); no flow for several days in July and August.

Period of record: Maximum discharge, 960 cfs Aug. 29, 1969 (gage height, 4.50 ft, from high-water mark); minimum, no flow for several days in July and August 1971.

REMARKS.--Records fair. Records of water temperatures and suspended-sediment loads for the 1971 water year will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	7.7	1.7	8.4	3.4	.52	.76	2.7	2.8	.52	.93	1.3
2	2.1	10	1.6	3.9	2.6	.58	.62	3.0	2.2	.58	.58	.65
3	2.1	12	1.6	2.9	2.1	.68	3.4	2.7	2.0	.50	0	33
4	2.4	12	1.6	1.7	1.4	.75	3.2	2.4	2.0	.18	0	5.9
5	2.9	9.3	1.6	1.2	1.7	1.2	3.2	2.3	2.1	.09	.35	1.5
6	5.4	7.2	1.6	1.7	1.9	1.1	3.4	3.6	2.1	.04	.89	.60
7	6.0	8.6	1.5	2.1	1.6	1.6	2.0	4.4	1.9	.02	.77	1.4
8	4.9	9.0	1.3	2.6	1.5	1.5	.92	5.0	1.7	0	0	1.0
9	4.8	9.7	2.0	3.3	1.1	1.4	1.1	3.4	1.6	0	0	1.2
10	4.4	7.6	2.6	4.0	1.4	2.0	.63	2.8	1.6	0	0	1.4
11	6.8	4.6	2.3	4.0	2.1	2.3	.31	2.8	1.7	0	0	1.6
12	7.7	3.2	1.9	3.7	1.9	1.9	.38	2.9	1.9	0	0	1.6
13	6.5	2.7	1.8	3.3	1.8	2.3	.72	2.5	1.8	0	0	1.4
14	7.0	2.4	1.7	3.0	1.8	1.7	.77	3.0	1.8	0	0	1.7
15	8.5	2.1	2.5	3.4	1.8	1.7	.73	2.1	1.3	0	0	1.3
16	9.9	2.0	2.3	3.8	1.7	1.5	.77	2.0	1.0	0	0	1.3
17	7.6	1.9	2.7	4.1	1.7	1.2	.84	2.1	1.1	0	0	1.5
18	7.1	1.9	2.2	4.6	1.7	1.0	1.0	2.4	1.2	0	.06	1.5
19	7.1	1.8	1.8	5.5	1.9	1.1	1.1	2.5	1.2	0	1.2	1.3
20	6.7	1.7	1.6	6.0	1.8	1.3	1.4	2.5	1.2	0	2.4	1.5
21	6.8	1.5	2.3	6.0	1.7	1.5	1.5	3.0	1.1	0	2.1	1.4
22	6.6	1.5	2.4	5.8	1.7	1.5	1.6	3.7	1.0	0	1.6	1.6
23	6.2	1.6	1.6	5.6	2.3	1.6	1.5	4.1	.95	.36	1.7	1.6
24	6.1	1.6	1.9	6.1	1.9	1.9	2.0	4.3	.85	.32	1.5	1.2
25	7.5	1.5	1.5	4.4	1.9	2.1	1.9	3.2	.76	.14	7.0	.95
26	8.4	1.7	3.5	3.2	.63	1.8	1.7	3.2	.68	.28	.57	.89
27	8.3	1.8	5.0	2.7	.42	2.0	2.3	4.2	.60	0	53	1.1
28	7.3	1.6	6.1	1.9	.49	1.7	5.0	4.5	.52	0	84	1.3
29	8.0	1.6	5.8	2.3	-----	1.4	5.8	3.8	.52	0	83	1.3
30	6.7	1.7	6.0	2.7	-----	1.5	4.4	2.7	.52	0	49	1.6
31	6.8	-----	6.6	3.4	-----	1.1	-----	2.8	-----	0	2.5	-----
TOTAL	190.7	133.5	80.6	117.3	47.94	45.43	54.95	96.6	41.70	3.03	293.15	75.59
MEAN	6.15	4.45	2.60	3.78	1.71	1.47	1.83	3.12	1.39	.098	9.46	2.52
MAX	9.9	12	6.6	8.4	3.4	2.3	5.8	5.0	2.8	.58	84	33
MIN	2.1	1.5	1.3	1.2	.42	.52	.31	2.0	.52	0	0	.60
AC-FT	378	265	160	233	95	90	109	192	83	6.0	581	150

CAL YR 1970 TOTAL 1,568.24 MEAN 4.30 MAX 43 MIN .64 AC-FT 3,110
 WTR YR 1971 TOTAL 1,180.49 MEAN 3.23 MAX 84 MIN 0 AC-FT 2,340

PEAK DISCHARGE (BASE, 200 CFS).--Aug. 27 (1600) 520 cfs (3.24 ft).

DIRTY DEVIL RIVER BASIN

99

09330230 Fremont River near Caineville, Utah

LOCATION.--Lat 38°16'40", long 111°04'00", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.29 S., R.8 E., Wayne County, on right bank 2 miles downstream from Pleasant Creek, 4.5 miles southwest of Caineville, and 9.8 miles east of Fruita, Utah.

DRAINAGE AREA.--1,190 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,750 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 2,310 cfs Aug. 27 (gage height, 5.36 ft, from high-water mark); minimum, 13 cfs May 22.

Period of record: Maximum discharge, 2,310 cfs Aug. 27, 1971 (gage height, 5.36 ft, from high-water mark); minimum, 13 cfs May 22, 1971.

REMARKS.--Records fair. Records of suspended-sediment loads and temperatures for the 1971 water year will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	62	84	80	108	89	86	39	32	24	48	62
2	50	60	84	83	106	86	83	39	32	32	47	58
3	51	60	81	74	104	90	84	36	26	33	45	190
4	53	62	81	65	86	96	81	38	26	27	44	105
5	53	65	84	60	92	101	80	33	26	27	36	75
6	51	65	84	62	93	90	78	38	26	27	56	66
7	62	65	80	68	86	95	75	51	26	29	136	215
8	62	66	83	78	92	96	74	47	24	27	114	130
9	62	65	87	86	90	98	80	41	23	27	103	100
10	54	66	84	100	93	103	77	39	23	26	99	110
11	53	65	77	100	96	103	74	36	23	27	97	120
12	48	65	80	100	93	101	75	36	32	30	95	85
13	50	66	75	100	93	103	72	35	32	29	92	64
14	50	63	75	92	93	96	72	33	30	27	90	45
15	48	77	78	100	93	95	72	29	24	26	90	41
16	50	77	78	120	92	95	71	29	24	26	88	35
17	51	80	80	130	92	96	69	27	26	26	86	34
18	51	81	80	140	93	90	60	26	30	26	86	36
19	54	80	75	130	90	93	48	30	32	81	85	36
20	56	81	68	108	89	93	47	30	35	87	83	41
21	57	84	75	115	90	95	44	30	32	101	82	43
22	56	86	80	115	89	95	39	26	33	138	101	42
23	57	86	78	108	92	93	41	33	33	95	137	44
24	59	83	72	104	93	93	42	35	30	81	110	45
25	62	84	71	104	93	92	42	30	29	74	204	42
26	62	89	78	106	84	90	42	29	27	68	398	42
27	62	90	78	106	80	89	41	32	26	63	988	41
28	57	87	81	104	92	103	39	29	26	60	920	41
29	63	86	80	104	-----	104	39	32	24	57	310	41
30	65	89	80	104	-----	95	39	33	24	54	84	45
31	62	-----	81	110	-----	90	-----	29	-----	53	72	-----
TOTAL	1,721	2,235	2,452	3,056	2,587	2,948	1,866	1,050	836	1,508	5,026	2,074
MEAN	55.5	74.5	79.1	98.6	92.4	95.1	62.2	33.9	27.9	48.6	162	69.1
MAX	65	90	87	140	108	104	86	51	35	138	988	215
MIN	48	60	68	60	80	86	39	26	23	24	36	34
AC-FT	3,410	4,430	4,860	6,060	5,130	5,850	3,700	2,080	1,660	2,990	9,970	4,110

CAL YR 1970 TOTAL 23,645 MEAN 64.8 MAX 217 MIN 25 AC-FT 46,900
WTR YR 1971 TOTAL 27,359 MEAN 75.0 MAX 988 MIN 23 AC-FT 54,270

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
7-19	1900	4.30	1,310	8-27	1500	5.36	2,310
8-25	2000	3.22	630				

NOTE.--No gage-height record Aug. 27 to Sept. 15.

DIRTY DEVIL RIVER BASIN

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 upstream from Emery Canal and 5 miles north of Emery.

DRAINAGE AREA.--105 sq mi, 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 (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 upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

AVERAGE DISCHARGE.--25 years (1910-13, 1949-71), 38.0 cfs (27,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 752 cfs July 22 (gage height, 5.42 ft); minimum, 3.6 cfs Mar. 18.

Period of record: Maximum discharge, 3,340 cfs May 10, 1952 (gage height, 11.14 ft, present datum), from rating curve extended above 400 cfs on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

REMARKS.--Records fair. One small diversion for irrigation above station.

REVISIONS.--WSP 1633: Drainage area

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	12	14	11	11	10	17	51	78	95	44	42
2	14	12	15	11	11	10	13	59	76	90	43	33
3	14	9.7	12	11	11	10	14	64	76	85	42	38
4	14	13	12	11	11	10	14	60	78	80	43	31
5	14	14	12	11	11	10	24	48	82	76	45	24
6	14	12	12	11	11	10	27	52	82	74	48	23
7	15	13	12	11	11	10	28	55	91	70	47	27
8	14	9.2	12	11	11	10	30	53	92	68	56	24
9	14	11	12	11	11	10	36	56	93	64	62	23
10	15	12	12	11	11	10	41	53	97	61	57	22
11	14	11	12	11	11	10	48	53	101	57	51	22
12	15	12	12	11	11	10	50	61	95	54	55	22
13	15	11	12	11	11	10	52	69	95	52	57	21
14	14	8.1	12	11	11	10	51	84	99	50	56	21
15	13	17	12	11	11	10	55	95	109	49	54	21
16	11	20	12	11	11	11	61	102	118	46	45	21
17	11	18	12	11	11	11	59	88	122	51	58	21
18	11	17	12	11	11	11	54	74	122	50	52	21
19	11	17	12	11	11	15	47	70	123	46	44	21
20	11	20	12	11	11	14	46	72	126	52	50	21
21	11	21	11	11	10	13	45	74	124	42	48	21
22	12	17	11	11	10	15	44	75	123	70	66	21
23	11	12	11	11	10	31	47	69	124	51	60	21
24	12	12	11	11	10	32	46	71	122	47	55	21
25	10	13	11	11	10	22	44	78	119	44	57	21
26	12	12	11	11	10	48	40	83	115	42	58	20
27	11	11	11	11	10	43	38	88	112	42	55	20
28	11	11	11	11	10	25	36	96	107	41	57	20
29	13	11	11	11	-----	16	36	95	106	39	55	20
30	13	11	11	11	-----	18	38	87	100	39	54	20
31	13	-----	11	11	-----	22	-----	83	-----	46	51	-----
TOTAL	392.4	400.0	366	341	300	497	1,181	2,218	3,107	1,773	1,625	704
MEAN	12.7	13.3	11.8	11.0	10.7	16.0	39.4	71.5	104	57.2	52.4	23.5
MAX	15	21	15	11	11	48	61	102	126	95	66	42
MIN	9.4	8.1	11	11	10	10	13	48	76	39	42	20
AC-FT	778	793	726	676	595	986	2,340	4,400	6,160	3,520	3,220	1,400

CAL YR 1970 TOTAL 16,224.9 MEAN 44.5 MAX 210 MIN 7.0 AC-FT 32,180
WTR YR 1971 TOTAL 12,904.4 MEAN 35.4 MAX 126 MIN 8.1 AC-FT 25,600

PEAK DISCHARGE (BASE, 400 CFS).--July 22 (1300) 752 cfs (5.42).

DIRTY DEVIL RIVER BASIN

101

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 upstream from Poison Spring Wash and 25.5 miles southeast of Hanksville.

DRAINAGE AREA.--4,170 sq mi, 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 (from topographic map). Prior to July 15, 1964, at site 28 miles downstream at different datum.

AVERAGE DISCHARGE.--23 years, 96.9 cfs (70,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,180 cfs about Aug. 31 (gage height, 6.10 ft from floodmark); minimum, no flow for many days.

Period of record: Maximum discharge, about 35,000 cfs Nov. 4, 1957 (gage height, 28.1 ft, from floodmarks, site and datum then in use), from rating curve extended above 9,000 cfs on basis of slope-area measurement at gage height 20.65 ft; no flow at times in 1954-55, 1959-60, 1963-68, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	74	155	110	192	81	93	15	0	0	2.4	114
2	53	77	149	111	193	83	92	11	0	0	2.5	44
3	39	82	131	90	176	89	90	7.4	0	0	2.5	27
4	57	60	93	70	162	84	89	7.6	0	0	2.7	26
5	87	78	107	50	160	137	88	5.1	0	0	2.8	25
6	99	83	93	50	138	131	87	7.6	0	0	3.0	22
7	92	66	104	50	148	125	85	25	0	0	8.7	20
8	118	86	84	50	149	105	84	32	0	0	34	20
9	80	65	94	50	145	101	83	32	.65	0	26	20
10	58	57	77	50	99	128	81	36	1.7	0	16	20
11	44	57	97	50	106	171	80	28	3.5	0	6.0	20
12	45	60	103	50	109	182	80	25	3.7	0	1.6	20
13	51	77	93	50	132	194	78	24	3.0	0	.31	20
14	46	108	94	50	134	198	64	22	4.6	0	.10	20
15	46	106	88	50	162	150	54	20	6.6	0	0	20
16	44	135	94	50	137	124	51	17	8.6	0	0	20
17	48	95	120	50	86	119	44	13	8.5	0	1.7	20
18	49	94	147	50	86	83	24	11	8.6	0	.05	20
19	50	138	130	50	115	88	17	7.4	7.1	0	0	20
20	49	140	94	50	118	90	28	6.0	7.2	0	0	20
21	50	75	112	60	123	69	26	8.3	9.3	0	3.1	20
22	52	66	116	70	122	85	22	7.1	8.2	52	27	23
23	58	75	154	80	132	90	21	4.0	4.6	117	90	26
24	63	84	132	90	145	101	24	2.9	7.2	34	42	26
25	93	103	92	140	126	85	23	2.2	2.4	24	44	26
26	117	134	97	153	98	109	18	1.1	.44	14	202	28
27	70	157	169	161	86	107	16	.30	0	9.2	90	23
28	58	118	86	172	103	143	17	0	0	5.7	231	21
29	52	126	85	173	-----	135	17	0	0	4.0	346	21
30	62	141	116	173	-----	137	17	0	0	2.5	406	22
31	69	-----	123	179	-----	123	-----	0	-----	2.2	533	-----
TOTAL	1,934	2,817	3,429	2,632	3,682	3,647	1,593	378.00	95.89	264.6	2,124.46	774
MEAN	62.4	93.9	111	84.9	132	118	53.1	12.2	3.20	8.54	68.5	25.8
MAX	118	157	169	179	193	198	93	36	9.3	117	533	114
MIN	35	57	77	50	86	69	16	0	0	0	0	20
AC-FT	3,840	5,590	6,800	5,220	7,300	7,230	3,160	750	190	525	4,210	1,540

CAL YR 1970 TOTAL 29,383.00 MEAN 80.5 MAX 780 MIN 19 AC-FT 58,280
WTR YR 1971 TOTAL 23,370.95 MEAN 64.0 MAX 533 MIN 0 AC-FT 46,360

PEAK DISCHARGE (BASE, 2,700 CFS).--No peaks above base.

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 upstream from unnamed right bank tributary and 7 miles north of Escalante.

DRAINAGE AREA.--78 sq mi, 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 (from topographic map).

AVERAGE DISCHARGE.--19 years, 4.23 cfs (3,060 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 340 cfs Aug. 20 (gage height, 5.20 ft), from rating curve extended above 43 cfs on basis of slope-area measurement; minimum discharge, 0.32 cfs Oct. 27, Nov. 3 and 9.
Period of record: Maximum discharge, 1,010 cfs Aug. 2, 1967 (gage height, 7.72 ft), from rating curve extended above 35 cfs on basis of slope-area measurement at gageheight 7.70 ft; no flow at times in most years.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Some regulation from small reservoirs at headwaters.

REVISIONS.--WSP 1633: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.6	.55	1.3	2.2	2.1	4.8	3.1	2.4	5.6	4.0	2.6
2	1.6	2.4	.55	1.3	2.0	3.0	4.4	5.2	2.3	5.5	3.9	2.4
3	1.7	1.6	.55	1.0	1.4	3.0	4.2	6.2	2.1	5.6	3.8	2.5
4	1.7	2.8	.55	.80	.98	3.0	3.6	6.7	2.1	5.7	3.3	2.4
5	2.0	3.2	.55	.60	2.0	3.0	3.6	6.0	2.1	5.6	3.1	2.1
6	1.9	2.7	.55	.50	2.0	3.0	4.2	5.6	4.2	5.6	3.3	1.9
7	2.1	3.1	.55	.60	2.0	3.2	6.0	6.0	5.8	5.6	3.2	1.7
8	2.4	2.4	.64	.68	2.0	3.2	6.2	5.2	5.9	5.8	3.1	1.7
9	2.6	2.2	1.0	.82	2.0	3.2	6.9	4.4	6.1	5.5	3.2	1.6
10	2.5	3.0	1.6	.96	3.0	3.4	7.3	4.4	6.0	5.4	2.6	1.5
11	2.4	2.6	1.3	1.1	3.0	3.4	8.0	4.1	5.9	5.6	2.4	1.3
12	2.5	2.0	1.3	1.3	2.9	3.6	9.9	5.2	6.7	5.5	2.8	1.2
13	2.4	1.2	1.3	1.5	3.0	3.6	10	4.8	6.3	5.5	2.1	1.2
14	2.4	1.0	1.3	1.4	3.0	3.3	9.2	5.6	5.9	5.7	2.0	1.1
15	2.3	1.0	1.3	1.3	2.8	3.3	6.7	6.1	5.7	5.7	1.8	.91
16	2.3	1.0	1.4	1.5	2.3	3.3	7.5	6.2	5.6	5.6	1.8	1.1
17	2.6	1.0	1.6	1.9	2.2	3.4	8.4	6.2	5.5	5.6	1.9	1.2
18	2.4	1.0	1.3	2.5	2.2	2.3	5.4	5.2	5.4	5.9	1.6	1.2
19	2.7	1.0	1.0	2.5	2.1	2.0	4.1	4.9	5.4	8.0	1.5	1.3
20	2.6	1.0	1.2	2.5	2.1	2.1	4.4	5.1	5.4	6.1	17	1.3
21	2.6	1.2	1.4	2.5	2.0	2.2	4.6	5.2	5.4	7.1	1.5	1.2
22	2.7	1.4	1.0	2.5	2.0	2.2	3.9	4.9	5.4	7.2	1.4	1.3
23	2.7	1.7	.80	2.3	2.0	2.4	3.9	4.6	5.4	5.9	1.6	1.3
24	2.8	2.2	.60	2.3	2.0	2.6	3.3	4.4	5.4	5.5	1.4	1.3
25	2.7	2.6	.60	2.3	2.4	1.8	3.3	5.0	5.4	5.3	2.3	1.3
26	2.0	2.9	.75	2.3	2.0	2.0	2.6	4.2	5.4	5.5	2.3	1.3
27	1.6	2.4	.90	2.3	1.6	2.4	2.9	3.6	5.4	5.3	2.5	1.3
28	1.4	2.3	1.2	2.3	1.8	2.3	2.9	3.1	5.4	4.9	6.3	1.4
29	1.6	2.5	1.3	2.3	-----	2.2	2.9	2.8	5.5	4.6	3.1	1.4
30	2.4	2.6	1.3	2.3	-----	2.4	2.8	2.8	5.7	4.6	2.9	1.7
31	2.8	-----	1.3	2.5	-----	6.0	-----	2.5	-----	4.6	2.7	-----
TOTAL	70.0	60.6	31.24	51.96	60.98	88.9	157.9	149.3	151.2	175.6	96.4	45.71
MEAN	2.26	2.02	1.01	1.68	2.18	2.87	5.26	4.82	5.04	5.66	3.11	1.52
MAX	2.8	3.2	1.6	2.5	3.0	6.0	10	6.7	6.7	8.0	17	2.6
MIN	1.4	1.0	.55	.50	.98	1.8	2.6	2.5	2.1	4.6	1.4	.91
AC-FT	139	120	62	103	121	176	313	296	300	348	191	91

CAL YR 1970 TOTAL 2,372.84 MEAN 6.50 MAX 75 MIN .55 AC-FT 4,710
WTR YR 1971 TOTAL 1,139.79 MEAN 3.12 MAX 17 MIN .50 AC-FT 2,260

PEAK DISCHARGE (BASE, 100 CFS).--Aug. 20 (1300) 340 cfs (5.20 ft).

ESCALANTE RIVER BASIN

103

09338000 East Fork Boulder Creek near Boulder, Utah

LOCATION.--Lat 38°02'31", long 111°26'58", in SW¼NW¼NE¼ sec.10, T.32 S., R.4 E., Garfield County, on left bank just upstream from GarKane Power Association Reservoir and diversion dam, and 11 miles northwest of Boulder.

DRAINAGE AREA.--21.4 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,315 ft (from GarKane Power Association project map). Prior to Sept. 24, 1958, at site 0.8 mile downstream at different datum.

AVERAGE DISCHARGE.--19 years, 23.8 cfs (17,240 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 196 cfs May 26 (gage height, 2.44 ft); minimum, 11 cfs Feb. 2, 3, and 7.
Period of record: Maximum discharge, 483 cfs May 20, 1964 (gage height, 3.30 ft), from rating curve extended above 230 cfs; minimum, 8.2 cfs Nov. 5, 1951.

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

REVISIONS (WATER YEAR).--WSP 1733: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	22	21	15	19	17	31	23	51	17	24	29
2	22	22	19	15	14	19	28	23	57	18	23	27
3	23	22	19	15	12	20	28	27	65	19	23	27
4	24	23	18	14	13	22	28	30	62	17	23	26
5	23	22	18	13	13	22	26	34	66	16	27	26
6	20	21	17	12	13	20	23	32	71	16	27	25
7	21	22	17	12	14	22	23	29	80	17	24	26
8	26	23	17	13	14	23	20	29	73	17	23	26
9	30	22	18	13	16	23	20	30	59	16	22	24
10	30	22	18	13	16	24	19	31	51	16	22	23
11	26	21	17	13	18	24	18	32	57	16	22	21
12	25	22	17	13	19	24	19	28	53	16	25	20
13	24	22	18	13	19	24	19	29	47	16	25	22
14	24	22	17	13	19	23	18	29	39	16	27	17
15	24	21	17	13	19	23	18	29	28	16	28	16
16	23	22	17	12	19	24	17	32	24	16	27	16
17	23	23	17	13	18	24	17	33	23	16	26	16
18	23	22	17	13	18	25	17	33	21	16	22	17
19	23	23	17	13	18	25	16	34	20	16	18	18
20	23	21	16	14	17	24	17	37	19	17	21	20
21	23	20	16	12	16	25	19	47	19	23	19	22
22	23	21	16	12	15	19	20	43	18	22	18	22
23	22	21	17	13	15	21	20	34	17	20	18	21
24	22	21	17	14	15	23	20	38	17	23	23	22
25	21	20	17	14	17	26	20	65	17	29	25	18
26	22	21	16	14	16	30	20	89	16	27	27	19
27	24	20	15	15	14	30	21	121	16	27	26	19
28	22	20	15	17	16	30	21	93	16	26	32	20
29	22	20	16	18	-----	30	20	69	16	25	33	21
30	21	20	15	18	-----	30	22	59	16	26	32	22
31	21	-----	14	19	-----	28	-----	57	-----	25	30	-----
TOTAL	721	644	526	431	452	744	625	1,319	1,134	603	762	648
MEAN	23.3	21.5	17.0	13.9	16.1	24.0	20.8	42.5	37.8	19.5	24.6	21.6
MAX	30	23	21	19	19	30	31	121	80	29	33	29
MIN	20	20	14	12	12	17	16	23	16	16	18	16
AC-FT	1,430	1,280	1,040	855	897	1,480	1,240	2,620	2,250	1,200	1,510	1,290
CAL YR 1970	TOTAL 9,345	MEAN 25.6	MAX 218	MIN 14	AC-FT 18,540							
WTR YR 1971	TOTAL 8,609	MEAN 23.6	MAX 121	MIN 12	AC-FT 17,080							

PEAK DISCHARGE (BASE, 80 CFS).--May 26 (2300) 196 cfs (2.44 ft); June 7 (0200) 94 cfs (1.86 ft).

09368000 San Juan River at Shiprock, N. Mex.

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27 (revised), T.30 N., R.18 W., San Juan County, on left bank 3 miles west of Shiprock, 6 miles downstream from Chaco River, and at mile 61.0.

DRAINAGE AREA.--12,900 sq mi, 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 above mean sea level (river-profile survey). Prior to Apr. 6, 1922, non-recording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 miles upstream at different datum. Oct. 26, 1933 to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

AVERAGE DISCHARGE.--45 years (1926-71), 2,225 cfs (1,621,000 acre-ft per year), unadjusted; 20 calendar years (1951-70), 1,824 cfs (1,321,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,380 cfs Aug. 27 (gage height, 5.65 ft); minimum, 278 cfs Aug. 18.
1927-71: Maximum discharge, about 80,000 cfs Aug. 11, 1929 (gage height, 5.7 ft, site and datum then in use); minimum daily, 8 cfs Aug. 25, 26, 1939.
Maximum flood known occurred Oct. 6, 1911, and reached a stage of 22 ft, 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 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 1971 water year are published in Part 2 of Water Resources Data for New Mexico.

REVISIONS (WATER YEARS).--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. Revised figures of discharge, in cubic feet per second, for the water year 1970, superseding those published in Water Resources Data for New Mexico for 1970, are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
April 28, 1970 . . .	732	May 2, 1970 . . .	525	May 6, 1970 . . .	862
29	807	3	448	7	1,080
30	651	4	418	Aug. 12, 1970 . . .	412
May 1, 1970 . . .	560	5	430	18	789

Month	Cfs-days	Maximum	Minimum	Mean	Runoff in acre-feet
April	21,150	1,120	422	705	41,950
May	72,413	4,460	418	2,336	143,600
August	21,630	1,840	239	698	42,900
Water year 1970. .	688,895	-----	---	---	-----

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,210	2,190	2,210	2,290	3,220	2,950	1,280	351	1,600	1,520	960	1,090
2	2,040	2,190	2,230	2,330	3,250	2,900	1,240	321	1,450	1,260	779	1,080
3	2,000	2,150	2,270	2,470	3,300	2,920	1,160	335	1,520	1,240	490	905
4	2,140	2,110	2,210	2,370	3,180	3,080	1,070	409	1,600	1,210	427	724
5	2,190	2,090	2,270	1,850	3,300	3,100	1,050	788	1,640	1,170	362	679
6	2,100	2,250	2,230	1,920	3,120	2,900	960	960	1,620	1,160	354	672
7	2,020	2,210	2,290	1,940	3,120	2,920	923	950	1,850	1,180	391	644
8	2,020	2,170	2,350	2,060	3,020	3,020	896	1,000	2,390	1,290	560	732
9	1,980	1,670	2,350	2,430	3,020	2,020	905	950	2,470	1,320	524	812
10	2,020	1,940	2,410	2,140	3,020	1,050	780	930	2,330	1,310	436	724
11	1,980	2,150	2,330	2,150	3,120	900	732	1,000	2,330	1,340	383	658
12	2,030	2,150	2,350	2,250	3,150	920	748	1,090	1,910	960	362	630
13	2,060	2,120	2,270	2,370	2,090	940	804	1,320	2,090	828	350	616
14	2,060	2,090	2,210	2,370	1,020	1,000	1,000	1,620	1,800	756	321	588
15	2,250	2,100	2,290	2,370	923	1,000	1,070	1,970	1,840	716	314	530
16	2,170	2,040	2,470	2,510	942	980	1,170	1,880	2,350	623	350	480
17	2,370	2,060	2,510	2,610	960	980	1,140	1,800	2,800	588	297	465
18	2,310	2,090	2,510	2,670	942	990	1,130	1,970	2,800	560	293	422
19	2,250	2,120	2,290	2,670	1,260	1,070	1,180	1,780	2,900	581	458	441
20	2,250	2,100	2,230	2,710	2,510	1,120	1,160	1,540	2,710	560	1,310	422
21	2,290	2,140	2,250	2,850	2,820	1,200	1,080	1,240	2,730	1,080	2,240	400
22	2,410	2,090	2,270	3,100	2,570	1,170	869	1,090	2,630	1,160	1,730	400
23	2,670	2,190	2,250	3,120	2,650	1,030	780	1,160	2,980	1,000	3,300	409
24	2,650	2,250	2,210	3,020	2,730	860	658	1,200	2,750	960	2,170	370
25	2,430	2,290	2,140	2,950	2,900	905	567	980	2,670	860	2,000	375
26	2,510	2,120	2,140	2,950	3,080	914	560	980	2,690	804	1,610	370
27	2,390	2,190	2,190	3,080	2,980	887	602	1,180	2,470	740	2,700	370
28	2,430	2,230	2,270	3,050	2,950	896	574	1,660	2,290	650	2,040	347
29	2,350	2,290	2,290	3,050	-----	1,060	485	2,410	1,940	580	1,910	383
30	2,350	2,250	2,310	3,080	-----	1,170	422	2,590	1,700	560	1,580	2,750
31	2,250	-----	2,270	3,100	-----	1,260	-----	2,080	-----	540	1,420	-----
TOTAL	69,180	64,030	70,870	79,830	71,147	48,112	26,995	39,534	66,850	29,106	32,421	19,488
MEAN	2,232	2,134	2,286	2,575	2,541	1,552	900	1,275	2,228	939	1,046	650
MAX	2,670	2,290	2,510	3,120	3,300	3,100	1,280	2,590	2,980	1,520	3,300	2,750
MIN	1,980	1,670	2,140	1,850	923	860	422	321	1,450	540	293	347
AC-FT	137,200	127,000	140,600	158,300	141,100	95,430	53,540	78,420	132,600	57,730	64,310	38,650

CAL YR 1970 TOTAL 679,908 MEAN 1,863 MAX 11,300 MIN 239 AC-FT 1,349,000
WTR YR 1971 TOTAL 617,563 MEAN 1,692 MAX 3,300 MIN 293 AC-FT 1,225,000

PEAK DISCHARGE (BASE, 6,000 CFS).--Aug. 23 (1500) 6,140 cfs (5.60 ft); Aug. 27 (0615) 6,380 cfs (5.65 ft).

SAN JUAN RIVER BASIN

105

09376900 Spring Creek above diversions, near Monticello, Utah

LOCATION.--Lat 37°55'10", long 109°26'03", in NE¼SW¼SE¼ sec.7, T.33 S., R.23 E., San Juan County, on left bank 300 ft upstream from a diversion, 1 mile downstream from Manti-LaSal National Forest boundary, 2.6 miles upstream from mouth, and 6 miles northwest of Monticello.

DRAINAGE AREA.--4.95 sq mi.

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

GAGE.--Water-stage recorder and 120° V-notch sharp-crested weir. Altitude of gage is 7,720 ft above mean sea level (from topographic map).

AVERAGE DISCHARGE.--6 years, 1.07 cfs (775 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3.7 cfs May 18 (gage height, 1.15 ft); maximum gage height, 1.99 ft Jan. 21 (backwater from ice); no flow many days.

Period of record: Maximum discharge, 18 cfs May 10, 1966 (gage height, 1.72 ft); no flow many days each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.07		0		0	.02	.25	1.9	.81	.01	.04
2	.02	.05		0		0	.05	.23	1.7	.75	0	.03
3	.02	.06		0		0	.03	.36	1.6	.74	0	.05
4	.11	.06		0		0	.03	.62	1.6	.58	0	.04
5	.09	.05		0		0	.03	.93	1.6	.54	0	.03
6	.05	.02		0		0	.03	.91	1.5	.53	0	.02
7	.09	.02		0		0	.03	.90	1.6	.51	0	.02
8	.14	.02		0		0	.03	1.1	1.6	.44	0	.02
9	.17	.03		0		0	.07	.99	1.7	.38	0	.01
10	.15	.06		0		.03	.08	.84	1.6	.32	0	.01
11	.15	.05		0		.05	.09	.82	1.5	.24	0	0
12	.09	.07		0		.06	.12	.87	1.8	.18	0	0
13	.12	.07		0		.07	.29	.71	1.7	.13	0	0
14	.11	.02		0		.08	.44	.71	1.6	.09	0	0
15	.11	.03		0		.10	.54	1.0	1.6	.07	0	0
16	.19	.03		0		.10	.61	1.3	1.6	.06	0	0
17	.14	.03		0		.10	.66	2.5	1.7	.07	0	0
18	.13	.08		0		.10	.85	2.4	1.9	.07	0	0
19	.12	.07		0		.10	.72	2.2	2.1	.06	0	0
20	.10	0		.05		.10	.70	2.0	2.1	.09	0	0
21	.09	.01		.05		.10	.58	2.0	2.0	.18	0	0
22	.12	.05		.01		.10	.55	2.1	1.8	.15	0	0
23	.10	.05		0		.10	.49	2.1	1.7	.14	0	0
24	.10	.05		0		.10	.38	2.0	1.7	.10	0	0
25	.10	0		0		.10	.39	1.6	1.6	.06	0	0
26	.07	0		0		.34	.55	1.6	1.4	.04	.02	0
27	.19	0		0		.19	.34	1.8	1.3	.03	.05	0
28	.16	0		.12		.08	.36	2.2	1.2	.03	.07	0
29	.17	0		.14	-----	.05	.29	2.8	.99	.02	.06	0
30	.14	0		0	-----	.02	.27	2.3	.90	.02	.09	.01
31	.10	-----		0	-----	0	-----	2.0	-----	.01	.09	-----
TOTAL	3.46	1.05	0	.37	0	2.07	9.62	44.14	48.59	7.44	.39	.28
MEAN	.11	.035	0	.012	0	.067	.32	1.42	1.62	.24	.013	.009
MAX	.19	.08	0	.14	0	.34	.85	2.8	2.1	.81	.09	.05
MIN	.02	0	0	0	0	0	.02	.23	.90	.01	0	0
AC-FT	6.9	2.1	0	.7	0	4.1	19	88	96	15	.8	.6

CAL YR 1970 TOTAL 318.22 MEAN .87 MAX 12 MIN 0 AC-FT 631
WTR YR 1971 TOTAL 117.41 MEAN .32 MAX 2.8 MIN 0 AC-FT 233

PEAK DISCHARGE (BASE, 8 CFS).--No peaks above base.

SAN JUAN RIVER BASIN

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 below road ford, 2 miles north of Manti-LaSal National Forest boundary, and 9 miles north of Blanding.

DRAINAGE AREA.--3.77 sq mi.

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

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

AVERAGE DISCHARGE.--6 years (1966-71), 0.80 cfs (580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3.3 cfs Aug. 22 (gage height, 0.94 ft); maximum gage height, 1.05 ft Feb. 8 (backwater from ice); no flow many days.

Period of record: Maximum discharge, 20 cfs Aug. 1, 1968 (gage height, 1.46 ft); no flow many days each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.03	.02	.01	.03	.02	.58	.17	.38	.07	0	.01
2	.03	.04	.01	.01	.03	.02	.55	.18	.34	.06	0	.01
3	.03	.05	.01	.01	.02	.02	.52	.19	.31	.06	0	0
4	.03	.05	.01	.01	.02	.02	.47	.24	.29	.05	0	0
5	.03	.03	.01	.01	.02	.02	.45	.29	.26	.05	0	0
6	.03	.02	.01	.01	.02	.02	.45	.39	.23	.05	0	0
7	.04	.03	.01	.01	.02	.02	.49	.41	.21	.05	0	0
8	.05	.03	.01	.01	.02	.02	.49	.73	.20	.04	0	0
9	.05	.04	.01	.01	.02	.02	.42	.61	.20	.03	0	0
10	.05	.03	.01	.01	.02	.02	.43	.65	.19	.03	0	0
11	.05	.04	.01	.01	.02	.03	.42	.70	.17	.02	0	0
12	.05	.03	.01	.01	.02	.03	.46	.76	.20	.02	0	0
13	.05	.03	.01	.01	.02	.03	.47	.95	.18	.01	0	0
14	.05	.03	.01	.01	.02	.03	.50	1.2	.15	.01	0	0
15	.05	.03	.01	.01	.02	.03	.49	1.3	.14	.01	0	0
16	.06	.03	.01	.01	.02	.03	.47	1.4	.12	.01	0	0
17	.05	.03	.01	.01	.02	.03	.45	1.5	.11	.01	0	0
18	.05	.03	.01	.02	.02	.03	.51	1.4	.11	.01	.01	0
19	.05	.03	.01	.02	.02	.03	.45	1.2	.11	0	0	0
20	.05	.03	.01	.02	.02	.03	.43	1.1	.10	.01	.02	0
21	.05	.03	.01	.02	.02	.08	.36	.90	.10	.04	0	0
22	.07	.03	.01	.02	.02	.09	.36	.89	.10	.02	.29	0
23	.05	.03	.01	.02	.02	.09	.34	.83	.10	.02	.22	0
24	.05	.03	.01	.02	.02	.11	.29	.70	.09	.01	.03	0
25	.05	.03	.01	.02	.02	.17	.25	.62	.09	.01	.01	0
26	.05	.03	.01	.03	.02	.36	.26	.54	.09	0	.02	0
27	.06	.03	.01	.03	.02	.59	.20	.50	.09	0	.01	0
28	.08	.03	.01	.03	.02	.63	.22	.49	.08	0	.06	0
29	.06	.03	.01	.03	-----	.59	.19	.56	.08	0	.02	0
30	.05	.03	.01	.03	-----	.73	.17	.54	.08	0	.02	.02
31	.05	-----	.01	.03	-----	.79	-----	.45	-----	0	.01	-----
TOTAL	1.49	.96	.32	.51	.58	4.73	12.14	22.39	4.90	.70	.72	.04
MEAN	.048	.032	.010	.017	.021	.15	.40	.72	.16	.023	.023	.001
MAX	.08	.05	.02	.03	.03	.79	.58	1.5	.38	.07	.29	.02
MIN	.02	.02	.01	.01	.02	.02	.17	.17	.08	0	0	0
AC-FT	3.0	1.9	.6	1.0	1.2	9.4	24	44	9.7	1.4	1.4	.08

CAL YR 1970 TOTAL 168.41 MEAN .46 MAX 8.6 MIN 0 AC-FT 334
WTR YR 1971 TOTAL 49.48 MEAN .14 MAX 1.5 MIN 0 AC-FT 98

PEAK DISCHARGE (BASE, 8 CFS).--No peaks above base.

NOTE.--No gage-height record Dec. 15 to Jan. 17.

SAN JUAN RIVER BASIN

107

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 downstream from Brushy Basin Canyon, and 7 miles southwest of Blanding.

DRAINAGE AREA.--205 sq mi.

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 above mean sea level. Prior to October 1964, crest-stage gage only, at site 300 ft upstream at different datum; October 1964 to July 13, 1966, at site 50 ft upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

AVERAGE DISCHARGE.--7 years, 7.52 cfs (5,450 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 947 cfs Aug. 22 (gage height, 4.30 ft), from flood mark; no flow at times.
Period of record: Maximum discharge, 20,500 cfs Aug. 1, 1968 (gage height, 20.68 ft); no flow during some periods each year.

REMARKS.--Records fair. No regulation or diversions above station. Records of water temperatures and suspended-sediment loads for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.20	2.0	0	1.5	2.0	.58	.47		0	0	0
2	0	.20	1.4	0	1.5	2.0	.84	.47		0	0	0
3	0	.20	1.2	0	1.5	2.0	1.4	.20		0	0	0
4	0	.20	.84	0	1.4	2.0	1.0	.13		0	0	0
5	0	.58	.84	0	1.5	2.0	.70	.58		0	0	0
6	0	.58	1.6	0	1.5	1.2	1.2	2.9		0	0	0
7	0	2.3	1.4	0	1.5	1.6	1.4	2.7		0	0	0
8	0	2.7	1.4	0	1.5	2.3	1.6	17		0	0	0
9	0	.84	2.5	0	2.5	2.0	1.2	2.0		0	0	0
10	0	.47	2.3	0	2.5	1.4	1.4	1.0		0	0	0
11	0	.47	2.5	0	2.7	1.6	1.0	.84		0	0	0
12	0	.47	2.0	0	2.7	1.6	.84	.84		0	0	0
13	0	.47	1.2	0	2.7	1.8	.70	1.4		0	0	0
14	0	.28	1.5	0	2.7	1.4	.58	2.3		0	0	0
15	0	.09	1.5	0	2.7	1.4	.84	1.8		0	0	0
16	0	.09	1.5	0	2.3	1.2	.84	.84		0	0	0
17	0	.47	1.5	0	2.5	1.6	.58	.13		0	0	0
18	0	.84	1.5	.50	2.5	.58	.84	.06		0	0	0
19	0	.84	1.4	.50	2.0	.70	1.0	.06		0	0	0
20	0	1.2	1.5	.50	2.0	1.0	1.2	.13		0	18	0
21	0	1.2	1.5	1.5	2.0	.84	1.0	.01		14	20	0
22	0	1.4	1.5	1.5	2.0	.70	1.2	0		8.8	114	0
23	0	2.3	1.5	1.5	2.0	1.4	1.2	0		0	10	0
24	0	1.8	1.5	1.5	2.0	1.4	.84	0		0	1.0	0
25	.20	1.8	1.0	1.5	2.0	1.2	.20	.02		0	0	0
26	.20	4.7	.70	1.5	2.0	.58	.20	0		0	39	0
27	.20	3.4	.40	1.5	1.8	1.2	.28	0		0	10	0
28	.20	2.5	.30	1.5	2.0	.58	.58	0		0	118	0
29	.20	2.3	.20	1.5	-----	1.4	.58	0		0	20	0
30	.20	2.9	.20	1.5	-----	1.6	.47	0		0	9.1	42
31	.20	-----	0	1.5	-----	1.2	-----	0	-----	0	10	-----
TOTAL	1.40	37.79	40.38	18.00	57.5	43.48	26.29	35.88	0	22.8	369.1	42
MEAN	.045	1.26	1.30	.58	2.05	1.40	.88	1.16	0	.74	11.9	1.40
MAX	.20	4.7	2.5	1.5	2.7	2.3	1.6	17	0	14	118	42
MIN	0	.09	0	0	1.4	.58	.20	0	0	0	0	0
AC-FT	2.8	75	80	36	114	86	52	71	0	45	732	83

CAL YR 1970 TOTAL 1,013.10 MEAN 2.78 MAX 161 MIN 0 AC-FT 2,010
WTR YR 1971 TOTAL 694.62 MEAN 1.90 MAX 118 MIN 0 AC-FT 1,380

Peak discharge (base, 900 cfs, revised) Aug. 22 (1800) 947 cfs (4.30 ft).

09379500 San Juan River near Bluff, Utah

LOCATION.--Lat 37°08'49", long 109°51'51", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.42 S., R.19 E., San Juan County, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 miles southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 sq mi, 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 (from levels of Topographic Division, USGS). Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

AVERAGE DISCHARGE.--57 years, 2,598 cfs (1,882,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 12,310 cfs Aug. 22 (gage height, 11.55 ft); minimum, 400 cfs Aug. 20.
1914-17, 1927-70: Maximum discharge, 70,000 cfs Sept. 10, 1927 (gage height, 32.0 ft) from rating curve extended above 31,000 cfs and slope-area measurement at gage-height 26.62 ft; 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. Diversions for irrigation of approximately 200,000 acres 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,240	2,290	2,370	2,500	3,110	2,920	1,320	723	2,140	1,890	529	1,980
2	2,250	2,290	2,370	2,530	3,120	2,870	1,360	652	1,750	1,770	476	1,470
3	2,240	2,290	2,360	2,530	3,190	2,860	1,430	598	1,540	1,740	944	1,170
4	2,250	2,300	2,310	2,560	3,210	2,890	1,340	550	1,600	1,430	771	1,490
5	2,210	2,260	2,330	2,460	3,160	2,900	1,250	560	1,660	1,420	602	981
6	2,240	2,280	2,320	2,250	3,080	2,980	1,250	652	1,670	1,340	510	955
7	2,210	2,370	2,310	2,180	3,100	2,820	1,180	1,120	1,690	1,240	505	796
8	2,230	2,440	2,300	2,150	3,090	2,910	1,170	1,200	1,810	1,230	1,000	811
9	2,270	2,430	2,320	2,200	3,030	2,910	1,110	1,460	2,320	1,270	784	2,060
10	2,300	1,800	2,370	2,260	3,100	2,150	1,130	1,580	2,380	1,290	795	1,600
11	2,250	2,140	2,370	2,390	3,140	1,100	1,060	1,500	2,340	1,230	739	1,200
12	2,280	2,320	2,390	2,500	3,120	1,080	967	1,410	2,270	1,070	664	922
13	2,260	2,330	2,300	2,470	3,110	1,100	929	1,370	1,970	995	579	810
14	2,280	2,300	2,230	2,460	2,130	1,100	954	1,610	1,820	909	574	770
15	2,270	2,310	2,260	2,500	1,110	1,090	1,080	1,820	1,620	812	512	704
16	2,400	2,300	2,280	2,480	1,040	1,100	1,300	2,040	1,530	756	447	639
17	2,350	2,300	2,510	2,600	967	1,010	1,310	2,000	1,880	707	433	579
18	2,410	2,300	2,560	2,630	1,010	1,050	1,410	2,030	2,140	654	477	528
19	2,390	2,290	2,630	2,650	1,010	1,000	1,250	2,140	2,090	655	436	537
20	2,360	2,280	2,590	2,790	1,100	1,030	1,340	1,960	2,460	658	537	504
21	2,300	2,220	2,540	3,050	2,870	1,120	1,360	1,710	2,440	797	4,220	554
22	2,260	2,210	2,630	3,140	3,110	1,150	1,350	1,390	2,670	1,490	5,370	520
23	2,490	2,200	2,610	3,140	2,980	1,170	1,300	1,180	2,750	1,070	2,940	498
24	2,560	2,230	2,520	3,100	2,910	1,150	1,160	1,210	2,620	1,170	5,260	510
25	2,360	2,300	2,500	3,040	2,980	998	1,060	1,360	2,450	900	4,000	520
26	2,300	2,340	2,460	3,020	2,980	988	930	1,270	2,300	949	3,680	504
27	2,310	2,420	2,430	3,010	2,960	1,040	873	1,060	2,150	889	3,390	483
28	2,300	2,500	2,480	3,060	2,910	1,050	857	1,150	2,100	837	4,620	520
29	2,300	2,410	2,560	3,080	-----	999	878	1,490	2,000	739	2,570	638
30	2,280	2,380	2,560	3,060	-----	1,120	836	2,220	1,950	697	2,670	704
31	2,300	-----	2,510	3,050	-----	1,290	-----	2,440	-----	592	3,320	-----
TOTAL	71,450	68,830	75,280	82,840	72,627	50,945	34,744	43,455	62,110	33,196	54,354	25,957
MEAN	2,305	2,294	2,428	2,672	2,594	1,643	1,158	1,402	2,070	1,071	1,753	865
MAX	2,560	2,500	2,630	3,140	3,210	2,980	1,430	2,440	2,750	1,890	5,370	2,060
MIN	2,210	1,800	2,230	2,150	967	988	836	550	1,530	592	433	483
AC-FT	141,700	136,500	149,300	164,300	144,100	101,000	68,910	86,190	123,200	65,840	107,800	51,490

CAL YR 1970 TOTAL 767,835 MEAN 2,104 MAX 34,700 MIN 520 AC-FT 1,523,000
WTR YR 1971 TOTAL 675,788 MEAN 1,851 MAX 5,370 MIN 433 AC-FT 1,340,000

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-21	1800	10.92	10,940	8-24	0800	9.50	8,490
8-22	1800	11.55	12,310				

COLORADO RIVER MAIN STEM

109

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 upstream from bridge on U.S. Highway 89, 1.4 miles downstream from Wahweap Creek, 2 miles northwest of Page, and 12 miles downstream from Utah-Arizona State line.

DRAINAGE AREA.--107,700 sq mi, 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.--Current year: Maximum contents, 14,489,000 acre-ft July 11 (elevation, 3,622.34 ft); minimum, 12,033,000 acre-ft Jan. 12, 13 (elevation, 3,598.80 ft).

Period of record: Maximum contents, 14,489,000 acre-ft July 11, 1971 (elevation, 3,622.34 ft); minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965 (elevation, 3,490.76 ft).

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, consisting of the following: dead storage, 1,998,000 acre-ft below elevation 3,370 ft (sill of outlet gates); usable contents, 25,002,000 acre-ft between elevations 3,370 ft and 3,700 ft (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)

3,590	11,192,000	3,610	13,163,000
3,600	12,150,000	3,620	14,231,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,037	12,142	12,243	12,141	12,237	12,405	12,438	12,516	13,079	14,344	14,317	13,923
2	12,036	12,146	12,252	12,145	12,249	12,400	12,437	12,527	13,114	14,375	14,295	13,905
3	12,038	12,148	12,254	12,144	12,258	12,387	12,433	12,523	13,155	14,392	14,282	13,897
4	12,046	12,155	12,257	12,128	12,266	12,371	12,433	12,521	13,202	14,420	14,277	13,893
5	12,047	12,157	12,261	12,107	12,279	12,380	12,419	12,511	13,249	14,444	14,253	13,898
6	12,050	12,162	12,268	12,089	12,285	12,379	12,406	12,511	13,295	14,460	14,232	13,898
7	12,053	12,172	12,268	12,068	12,304	12,383	12,392	12,513	13,332	14,473	14,228	13,890
8	12,065	12,184	12,265	12,045	12,324	12,378	12,379	12,528	13,365	14,474	14,223	13,874
9	12,064	12,189	12,251	12,040	12,328	12,381	12,369	12,560	13,400	14,480	14,214	13,859
10	12,069	12,195	12,264	12,039	12,332	12,384	12,363	12,574	13,441	14,482	14,198	13,846
11	12,071	12,197	12,258	12,035	12,339	12,382	12,354	12,584	13,481	14,489	14,174	13,831
12	12,068	12,203	12,258	12,033	12,346	12,377	12,350	12,601	13,532	14,480	14,156	13,827
13	12,072	12,206	12,265	12,033	12,353	12,376	12,333	12,619	13,573	14,480	14,139	13,808
14	12,075	12,210	12,252	12,039	12,365	12,376	12,328	12,636	13,613	14,464	14,118	13,788
15	12,067	12,225	12,244	12,042	12,375	12,375	12,328	12,656	13,644	14,464	14,111	13,769
16	12,071	12,223	12,227	12,047	12,382	12,373	12,335	12,687	13,671	14,451	14,087	13,754
17	12,076	12,217	12,216	12,063	12,385	12,376	12,345	12,710	13,709	14,434	14,059	13,734
18	12,088	12,217	12,212	12,070	12,390	12,382	12,367	12,731	13,747	14,446	14,048	13,722
19	12,088	12,209	12,198	12,074	12,403	12,388	12,383	12,768	13,802	14,421	14,024	13,725
20	12,088	12,199	12,200	12,086	12,401	12,394	12,399	12,805	13,861	14,394	14,002	13,718
21	12,089	12,202	12,188	12,096	12,412	12,399	12,414	12,840	13,918	14,392	13,986	13,709
22	12,087	12,211	12,174	12,112	12,418	12,398	12,436	12,866	13,969	14,374	13,996	13,699
23	12,087	12,208	12,166	12,129	12,418	12,401	12,454	12,902	14,018	14,374	13,980	13,690
24	12,096	12,201	12,166	12,139	12,422	12,401	12,473	12,915	14,066	14,371	13,972	13,681
25	12,107	12,201	12,168	12,149	12,419	12,397	12,494	12,924	14,106	14,370	13,952	13,669
26	12,108	12,219	12,163	12,155	12,410	12,398	12,496	12,924	14,154	14,370	13,958	13,660
27	12,109	12,219	12,166	12,163	12,418	12,402	12,496	12,935	14,205	14,359	13,940	13,651
28	12,117	12,225	12,154	12,173	12,414	12,404	12,500	12,941	14,243	14,351	13,958	13,638
29	12,120	12,232	12,138	12,186	-----	12,405	12,507	12,958	14,281	14,338	13,951	13,628
30	12,123	12,237	12,132	12,207	-----	12,416	12,511	12,996	14,317	14,318	13,939	13,609
31	12,134	-----	12,129	12,228	-----	12,434	-----	13,031	-----	14,318	13,938	-----
MAX	12,134	12,237	12,268	12,228	12,422	12,434	12,511	13,031	14,317	14,489	14,317	13,923
MIN	12,036	12,142	12,129	12,033	12,237	12,371	12,328	12,511	13,079	14,318	13,938	13,609
(+)	3,599.84	3,600.88	3,599.78	3,600.79	3,602.66	3,682.85	3,603.62	3,608.73	3,620.79	3,620.80	3,617.31	3,614.25
(#)	+95	+103	-108	+99	+186	+20	+77	+520	+1,286	+1	-380	-329

CAL YR 1970 † +2,524,000

WTR YR 1971 † +1,570,000

† Elevation, in feet, at end of month.

Change in contents, in acre-feet.

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

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 miles downstream from Glen Canyon Dam, 28 miles downstream from Utah-Arizona State line, and 61.5 miles upstream from Little Colorado River.

PERIOD OF RECORD.--January 1895 to current year. Calendar year estimates and monthly discharge only for some periods, published in WSP 1313.

AVERAGE DISCHARGE.--51 years (1911-62), 17,850 cfs (12,923,000 acre-ft per year); 7 years (1964-71), 12,010 cfs (8,701,000 acre-ft per year).

Period of record: Maximum discharge, 220,000 cfs June 18, 1921 (gage height, 26.5 ft, from floodmarks), from rating curve extended above 120,000 cfs on basis of discharge computed for station near Grand Canyon; minimum daily, 700 cfs Jan. 23, 24, 1963.

Maximum discharge since at least 1868, about 300,000 cfs July 7, 1884 (gage height, 31.5 ft, present site and datum, from flood-mark at mouth of Paria River), from rating curve extended above 120,000 cfs on basis of discharge computed for flood of June 18, 1921, for station near Grand Canyon.

REVISIONS (WATER YEARS).--WSP 859: 1921-23. WSP 1313: 1914-21.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,200	3,430	7,110	4,120	4,810	12,800	17,000	14,600	13,700	17,100	9,990	16,700
2	9,290	6,240	7,870	7,620	5,880	14,700	18,600	12,030	15,400	16,000	14,000	15,000
3	7,070	8,150	7,110	7,870	6,310	15,000	18,800	16,600	14,400	14,200	15,600	15,200
4	6,180	6,970	9,450	15,600	7,710	13,800	16,400	16,000	14,000	12,400	14,400	9,710
5	7,360	7,560	7,740	17,200	7,250	11,400	21,200	16,600	11,900	10,800	14,700	5,640
6	7,560	7,360	6,790	15,100	7,300	10,900	22,500	18,000	7,630	13,700	13,600	6,150
7	7,860	5,910	9,610	15,200	3,070	9,290	21,500	17,600	12,500	15,100	9,990	14,300
8	7,160	3,510	9,720	15,500	2,460	12,000	19,700	12,000	12,900	14,200	7,990	15,400
9	7,720	6,210	9,870	8,940	7,010	10,500	17,300	12,100	13,000	16,000	12,600	15,400
10	7,820	7,030	10,900	4,690	8,480	9,500	17,200	15,500	13,000	16,400	12,900	15,800
11	7,260	6,870	12,100	9,360	7,970	11,600	15,900	18,500	12,600	13,400	14,900	16,700
12	9,780	6,910	9,390	8,830	7,720	11,200	18,800	17,700	10,000	18,200	16,000	12,900
13	9,360	6,840	5,420	7,960	7,220	10,900	18,800	15,000	9,150	18,900	14,600	17,900
14	10,200	5,190	11,900	8,760	5,370	9,470	17,700	15,700	13,700	17,100	14,800	17,600
15	9,360	2,950	13,500	8,690	5,760	10,200	18,300	14,200	17,900	17,100	12,400	17,400
16	9,080	8,730	15,500	7,250	6,140	10,100	15,900	11,200	17,900	17,200	16,300	16,900
17	7,230	10,300	15,100	3,920	6,590	7,720	16,300	14,500	17,600	16,300	16,100	15,600
18	4,710	12,300	14,200	8,400	6,210	7,490	13,600	15,200	17,900	14,100	15,300	10,200
19	9,120	12,500	14,000	8,030	6,940	7,390	16,200	14,300	15,300	17,300	14,900	6,650
20	9,430	12,400	9,390	6,290	8,170	7,030	17,500	14,900	12,500	18,600	14,400	10,200
21	10,300	8,560	13,800	5,870	7,860	6,370	17,000	15,400	16,300	18,800	16,800	11,700
22	11,600	5,380	15,900	7,930	9,750	9,260	15,700	13,900	17,500	18,000	9,190	11,100
23	10,300	11,500	15,200	5,080	9,920	9,500	14,500	10,300	18,400	16,600	16,300	12,000
24	7,130	11,400	13,400	2,890	8,480	8,870	11,000	16,900	18,900	13,400	16,400	11,600
25	4,260	9,640	5,070	7,970	10,800	8,260	9,750	17,500	19,700	10,600	17,400	13,100
26	8,050	4,420	10,200	7,850	13,900	9,290	13,900	20,000	17,500	13,700	16,300	9,710
27	6,810	7,960	6,000	7,140	10,300	12,300	19,200	17,400	14,700	14,400	16,300	12,600
28	6,300	7,360	12,100	5,170	10,400	10,400	17,400	14,900	18,400	15,100	13,600	13,600
29	8,190	6,150	15,200	3,920	-----	13,600	16,100	14,800	19,100	14,200	10,900	12,900
30												

PARIA RIVER BASIN

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09382000 Paria River at Lees Ferry, Ariz.

LOCATION.--Lat 36°52'20", long 111°35'38", in NW 1/4 sec.13, T.40 N., R.7 E., Coconino County, on left bank 0.6 mile northwest of Lees Ferry, and 1.1 miles upstream from mouth.

DRAINAGE AREA.--1,410 sq mi.

PERIOD OF RECORD.--October 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,123.40 ft above mean sea level. Prior to Oct. 5, 1925, nonrecording gage at site 2,000 ft upstream at different datum. Oct. 13, 1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--48 years, 29.9 cfs (21,660 acre-ft per year); median of yearly mean discharges, 26 cfs (18,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,880 cfs Aug. 26 (gage height, 10.58 ft); minimum daily, 1.4 cfs July 29-31.
Period of record: Maximum discharge, 16,100 cfs Oct. 5, 1925, from rating curve extended above 2,000 cfs 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 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. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	12	72	19	30	12	8.8	5.0	4.5	3.5	2.8	53
2	5.5	11	40	16	28	13	8.8	5.0	5.0	3.6	6.9	28
3	5.5	8.8	29	12	25	9.8	9.4	4.0	3.4	4.5	9.7	18
4	5.5	8.8	24	17	20	26	9.4	3.7	5.4	4.0	8.0	13
5	4.0	8.8	22	5.5	11	39	8.8	5.0	3.2	3.6	8.2	12
6	5.0	9.4	22	5.0	17	33	9.4	5.5	4.5	3.6	126	12
7	5.0	14	22	4.5	21	22	8.8	6.0	2.5	4.0	230	12
8	6.5	27	22	4.5	16	24	8.8	7.0	3.2	6.0	29	8.8
9	8.2	26	22	4.0	16	27	6.0	11	2.8	4.5	39	8.8
10	7.0	21	25	3.5	17	24	5.0	24	2.8	3.6	14	7.6
11	7.0	20	23	3.5	18	26	4.0	19	4.0	2.5	7.0	7.0
12	7.6	18	17	3.5	20	29	4.0	15	3.6	2.5	3.6	7.6
13	8.2	18	18	3.5	17	26	3.6	10	5.0	2.2	17	8.2
14	6.5	15	24	3.5	18	32	3.6	8.2	4.5	2.5	7.1	7.6
15	5.5	8.8	25	10	18	21	4.0	5.5	2.8	2.2	2.5	7.6
16	6.0	6.5	28	30	19	18	3.6	4.0	2.2	2.5	1.9	5.0
17	7.0	5.0	33	33	19	16	3.2	3.2	2.5	2.2	2.5	6.5
18	6.5	11	33	31	22	17	3.6	3.6	2.5	76	19	5.0
19	6.0	13	23	41	24	15	3.2	4.0	3.2	36	24	6.5
20	6.5	8.8	12	68	29	18	3.2	5.5	4.0	7.6	60	7.6
21	5.0	7.0	19	112	32	18	3.6	3.6	4.0	14	492	7.6
22	6.5	6.0	30	71	28	17	4.0	4.5	2.8	122	68	7.6
23	7.0	12	24	41	24	16	5.0	6.5	2.2	135	427	7.6
24	7.0	18	12	31	23	17	10	6.5	2.2	31	349	8.8
25	7.0	18	7.6	27	20	16	8.2	6.0	3.2	10	71	8.8
26	9.4	18	2.2	26	21	14	5.0	4.5	2.2	6.5	538	8.2
27	12	85	5.0	28	17	11	4.5	3.2	2.5	2.5	101	8.8
28	8.2	44	7.2	29	9.4	12	4.5	3.6	2.2	2.8	132	8.8
29	6.5	26	14	31	-----	12	5.0	5.0	3.6	1.4	135	9.4
30	12	72	13	28	-----	10	5.0	6.5	3.2	1.4	131	12
31	12	-----	16	28	-----	12	-----	5.5	-----	1.4	211	-----
TOTAL	217.6	576.9	686.0	770.0	579.4	602.8	174.0	209.6	99.7	505.1	3,273.2	329.4
MEAN	7.02	19.2	22.1	24.8	20.7	19.4	5.80	6.76	3.32	16.3	106	11.0
MAX	12	85	72	112	32	39	10	24	5.4	135	538	53
MIN	4.0	5.0	2.2	3.5	9.4	9.8	3.2	3.2	2.2	1.4	1.9	5.0
AC-FT	432	1,140	1,360	1,530	1,150	1,200	345	416	198	1,000	6,490	653

CAL YR 1970 TOTAL 7,378.0 MEAN 20.2 MAX 684 MIN 1.9 AC-FT 14,630
WTR YR 1971 TOTAL 8,023.7 MEAN 22.0 MAX 538 MIN 1.4 AC-FT 15,920

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-7	0400	10.25	1,650	8-23	0400	10.45	1,770
8-21	0530	9.90	1,410	8-26	0300	10.58	1,880

VIRGIN RIVER BASIN

09404450 East Fork Virgin River near Glendale, Utah

LOCATION.--Lat 37°20'19", long 112°36'13", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.14, T.40 S., R.7 W., Kane County, on right bank 50 ft downstream from Lydia's Creek, and 1.5 miles north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--74 sq mi, approximately.

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

AVERAGE DISCHARGE.--5 years, 20.5 cfs (14,850 acre-ft per year).

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

EXTREMES.--Current year: Maximum discharge, 66 cfs Aug. 23 (gage height, 1.20 ft); minimum, 6.7 cfs Feb. 27.

Period of record: Maximum discharge, 635 cfs Sept. 7, 1967 (gage height, 4.05 ft); minimum, 6.7 cfs Feb. 27, 1971.

REMARKS.--Records good. A few small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	18	16	20	15	14	13	14	9.0	9.5	10
2	11	14	16	17	19	15	15	13	13	8.8	9.2	9.8
3	11	14	16	14	18	16	14	15	13	8.7	9.4	9.3
4	11	14	16	13	16	18	13	13	13	8.7	9.7	9.6
5	12	15	16	13	17	17	13	17	13	9.0	11	9.5
6	11	15	16	15	17	16	13	19	13	9.2	13	9.3
7	11	20	16	16	16	17	13	18	12	9.3	10	9.8
8	12	16	16	19	16	17	13	20	12	9.2	10	9.5
9	13	15	17	19	16	18	13	19	12	9.0	9.5	9.3
10	13	15	16	18	17	19	13	18	12	8.9	9.6	9.2
11	13	15	15	19	18	19	13	17	12	8.8	8.5	9.0
12	13	15	15	18	17	20	13	17	13	8.8	12	8.9
13	13	14	15	18	18	20	13	16	12	8.8	9.8	9.4
14	13	14	15	18	18	17	13	16	12	8.8	8.6	9.0
15	13	14	15	17	17	17	13	15	11	9.2	7.9	8.8
16	13	14	15	17	17	18	13	15	11	9.2	8.2	9.1
17	13	14	15	18	19	18	13	15	11	11	8.8	9.2
18	13	15	16	19	18	17	14	15	11	11	9.0	9.2
19	13	15	15	21	17	16	15	14	10	9.5	11	9.4
20	13	15	16	23	17	17	16	13	9.3	10	10	9.2
21	13	16	16	21	17	17	15	12	9.5	9.8	11	9.2
22	14	16	16	19	17	17	16	14	9.8	9.0	11	8.9
23	14	16	16	18	17	17	15	14	9.4	8.9	17	9.4
24	14	15	15	18	17	17	15	15	9.6	8.8	11	9.7
25	15	15	16	18	16	17	14	14	8.8	8.8	9.7	9.7
26	14	27	16	19	14	16	14	13	9.0	8.8	9.3	9.0
27	15	18	16	19	14	16	14	13	8.8	8.7	11	9.1
28	14	17	17	19	15	16	13	13	9.0	8.9	13	9.1
29	14	22	16	19	-----	16	13	16	9.0	8.5	9.4	9.3
30	15	23	17	19	-----	15	13	16	9.0	9.1	19	9.7
31	15	-----	17	20	-----	14	-----	15	-----	11	13	-----
TOTAL	403	481	493	557	475	525	412	473	331.2	285.2	329.1	279.6
MEAN	13.0	16.0	15.9	18.0	17.0	16.9	13.7	15.3	11.0	9.20	10.6	9.32
MAX	15	27	18	23	20	20	16	20	14	11	19	10
MIN	11	13	15	13	14	14	13	12	8.8	8.5	7.9	8.8
AC-FT	799	954	978	1,100	942	1,040	817	938	657	566	653	555

CAL YR 1970 TOTAL 5,428.7 MEAN 14.9 MAX 27 MIN 8.6 AC-FT 10,770
WTR YR 1971 TOTAL 5,044.1 MEAN 13.8 MAX 27 MIN 7.9 AC-FT 10,000

PEAK DISCHARGE (BASE, 50 CFS).--Aug. 6 (1600) 58 cfs (1.09 ft); Aug. 23 (1700) 66 cfs (1.20 ft).

VIRGIN RIVER BASIN

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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 downstream from point of diversion of Springdale Canal, 0.5 mile downstream from Pine Creek, and 1.9 miles northeast of Springdale.

DRAINAGE AREA.--350 sq mi, 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 (from topographic map). May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 miles downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mile of present site at various datums.

AVERAGE DISCHARGE.--46 years, 99.4 cfs (72,020 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,390 cfs Aug. 25 (gage height, 6.60 ft); minimum, 25 cfs Dec. 11.

Period of record: Maximum discharge, 9,150 cfs Dec. 6, 1966, from rating curve extended above 2,000 cfs on the basis of a drift measurement at gage height 6.71, a slope-area measurement at gage height 10.25; minimum observed, 20 cfs July 31, 1963:

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

REVISIONS (WATER YEARS).--WSP 1313: 1929(M), 1944(M). WSP 1633: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	50	59	47	60	49	77	120	104	70	59	54
2	39	48	53	50	60	44	79	137	97	68	58	52
3	40	47	51	47	60	48	83	151	93	67	59	49
4	40	48	45	47	45	59	80	153	90	67	66	48
5	40	48	49	51	58	57	83	143	89	65	89	49
6	40	49	48	49	56	48	92	179	85	65	67	48
7	40	59	48	47	53	50	100	161	83	64	61	47
8	39	57	49	46	53	55	93	217	81	64	54	49
9	39	52	59	34	54	54	99	193	80	66	179	46
10	40	50	57	34	54	58	103	298	77	67	435	46
11	39	50	43	44	53	61	102	221	76	66	399	54
12	40	50	45	50	51	59	106	224	79	65	114	56
13	40	50	44	51	53	69	107	213	76	64	42	56
14	40	47	47	50	54	55	126	215	71	63	45	60
15	40	47	47	49	56	57	96	218	69	63	44	66
16	40	50	46	49	54	56	124	218	67	63	40	67
17	41	50	55	50	72	57	134	187	65	64	39	68
18	41	49	51	56	64	52	146	155	65	66	130	68
19	41	48	44	61	60	53	115	148	68	64	67	69
20	42	48	51	64	57	58	113	145	67	68	88	70
21	43	49	54	67	52	59	125	142	64	75	137	70
22	45	52	49	60	54	61	115	132	62	59	115	67
23	45	50	48	57	56	64	117	130	64	56	87	58
24	45	47	40	55	48	64	102	127	66	55	69	57
25	46	47	37	56	54	68	100	125	79	53	66	57
26	47	234	39	59	44	75	90	122	76	53	62	54
27	47	65	45	59	41	100	87	117	77	58	60	53
28	48	51	48	57	43	104	87	108	77	60	59	54
29	51	89	47	56	-----	96	94	120	72	59	58	53
30	51	141	44	57	-----	103	104	120	70	59	58	55
31	50	-----	46	58	-----	108	-----	113	-----	67	57	-----
TOTAL	1,318	1,822	1,488	1,617	1,519	2,001	3,079	5,052	2,289	1,963	2,963	1,700
MEAN	42.5	60.7	48.0	52.2	54.3	64.5	103	163	76.3	63.3	95.6	56.7
MAX	51	234	59	67	72	108	146	298	104	75	435	70
MIN	39	47	37	34	41	44	77	108	62	53	39	46
AC-FT	2,610	3,610	2,950	3,210	3,010	3,970	6,110	10,020	4,540	3,890	5,880	3,370

CAL YR 1970 TOTAL 23,999 MEAN 65.8 MAX 483 MIN 37 AC-FT 47,600
WTR YR 1971 TOTAL 26,811 MEAN 73.5 MAX 435 MIN 34 AC-FT 53,180

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-09	1900	5.10	1,510	8-20	2100	5.86	1,940
8-18	2000	4.67	1,300	8-25	1900	6.60	2,390

NOTE.--No gage-height record Aug. 19-Sept. 1

VIRGIN RIVER BASIN

09406000 Virgin River at Virgin, Utah

LOCATION.--Lat 37°11'54", long 113°12'25", in SE¼NW¼ sec.28, T.41 S., R.12 W., Washington County, on right bank 1.1 miles west of Virgin and 2.3 miles downstream from North Creek.

DRAINAGE AREA.--934 sq mi.

PERIOD OF RECORD.--April 1909 to September 1971 (discontinued); fragmentary prior to 1926, monthly discharge published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft (from topographic map). Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 miles of present site at various datums.

AVERAGE DISCHARGE.--62 years, 201 cfs (145,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,880 cfs Aug. 21 (gage height, 4.85 ft); minimum, 56 cfs Aug. 16, 17.

Period of record: Maximum discharge, 22,800 cfs Dec. 6, 1966 (gage height, 18.00 ft), from rating curve extended above 5,000 cfs on the basis of one slope-area measurement and one float measurement; minimum discharge observed, 22 cfs July 10, 1920, June 11, 1921.

REMARKS.--Records good. Diversions above station for irrigation. Records of water temperatures and suspended-sediment loads for the water year 1971 will be published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	98	179	132	141	114	152	137	175	91	87	97
2	80	99	159	137	137	110	138	162	155	87	81	90
3	78	94	148	119	137	110	133	172	137	85	83	82
4	77	98	139	104	111	130	132	179	122	83	87	79
5	74	100	135	109	112	137	131	170	120	83	219	79
6	70	101	134	119	124	116	137	277	118	85	124	78
7	75	113	136	132	116	114	149	251	115	83	314	78
8	76	127	142	141	117	128	139	355	112	81	230	78
9	80	114	160	153	119	129	146	278	107	80	150	77
10	80	103	198	143	114	131	159	434	104	80	210	75
11	81	104	133	122	116	139	160	360	108	81	160	74
12	80	107	131	133	116	139	157	330	116	83	120	79
13	80	108	130	130	116	160	160	310	112	83	108	78
14	81	110	133	133	117	154	172	300	104	80	121	78
15	78	105	137	129	116	133	145	295	103	80	200	82
16	79	112	134	126	114	132	161	290	101	80	110	83
17	88	109	145	126	174	133	177	280	94	82	60	88
18	84	112	137	136	197	128	230	260	95	123	72	91
19	88	116	130	152	167	128	182	200	88	76	300	85
20	90	120	138	161	160	133	172	190	85	73	170	86
21	91	117	143	167	138	132	161	187	83	91	948	93
22	95	122	140	148	126	132	190	178	80	73	250	95
23	91	127	130	132	135	136	158	189	78	68	130	93
24	95	126	119	125	124	149	143	183	78	66	120	81
25	92	134	115	127	124	150	142	172	90	65	115	83
26	96	703	120	131	115	157	140	170	96	64	110	93
27	97	300	131	138	102	198	135	158	91	67	105	83
28	99	148	143	141	104	210	135	144	91	75	105	88
29	98	239	135	134	-----	181	133	181	95	75	100	89
30	106	463	129	132	-----	181	130	199	94	75	100	91
31	105	-----	126	134	-----	199	-----	189	-----	92	100	-----
TOTAL	2,664	4,629	4,309	4,146	3,589	4,423	4,599	7,180	3,147	2,490	5,189	2,526
MEAN	85.9	154	139	134	128	143	153	232	105	80.3	167	84.2
MAX	106	703	198	167	197	210	230	434	175	123	948	97
MIN	70	94	115	104	102	110	130	137	78	64	60	74
AC-FT	5,280	9,180	8,550	8,220	7,120	8,770	9,120	14,240	6,240	4,940	10,290	5,010
CAL YR 1970	TOTAL 51,250		MEAN 140		MAX 950		MIN 70		AC-FT 101,700			
WTR YR 1971	TOTAL 48,891		MEAN 134		MAX 948		MIN 60		AC-FT 96,980			

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-21	2100	4.85	2,880	8-23	2100	4.09	2,070
8-22	0200	4.24	2,220				

VIRGIN RIVER BASIN

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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 upstream from mouth of canyon and 0.8 mile east of Kanarraville.

DRAINAGE AREA.--9.85 sq mi.

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft above mean sea level (from topographic map). Prior to Oct. 16, 1968, at site 1,500 ft downstream at different datum.

AVERAGE DISCHARGE.--12 years, 3.59 cfs (2,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 600 cfs Aug. 8 (gage height, 2.47 ft, from floodmark); minimum daily, 1.4 cfs

Nov. 28, Feb. 21 to Mar. 1.

Period of record: Maximum discharge, about 1,000 cfs Aug. 17, 1970 (gage height, 2.25 ft, from floodmark); minimum recorded, 0.7 cfs Feb. 10, 1965.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. One small diversion 2 miles 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.8	2.0	1.9	1.8	1.4	2.9	5.5	4.1	3.1	2.5	2.3
2	2.5	1.8	1.8	1.8	1.8	1.6	2.9	5.5	4.1	3.1	2.2	2.3
3	2.0	1.8	1.8	1.8	1.8	1.6	2.9	5.3	4.0	3.0	2.5	2.3
4	1.9	1.8	1.8	1.8	1.7	1.9	2.9	5.3	3.9	2.8	2.6	2.2
5	2.0	1.8	1.7	1.7	1.8	1.8	3.2	5.9	3.9	2.8	2.4	2.2
6	1.9	1.8	1.7	1.6	1.8	1.7	3.5	4.8	4.1	2.7	3.2	2.2
7	1.9	2.0	1.7	1.6	1.7	2.0	3.7	5.0	4.1	2.7	2.3	2.2
8	1.8	2.0	1.7	1.7	1.7	2.3	3.8	6.7	4.1	2.7	50	2.2
9	1.8	1.9	1.7	2.0	1.7	2.4	4.2	5.9	3.8	2.6	10	2.1
10	1.8	2.0	1.7	2.5	1.8	2.5	4.4	6.1	3.7	2.5	2.2	2.1
11	1.8	2.0	2.0	2.8	1.8	2.5	4.6	6.0	4.0	2.5	2.0	2.1
12	1.8	2.0	1.8	2.8	1.8	2.6	4.7	5.9	3.7	2.5	2.0	2.1
13	1.8	2.1	2.5	2.7	1.9	2.7	5.3	5.4	3.6	2.5	2.0	2.1
14	1.8	1.9	2.3	2.6	1.9	2.4	4.7	5.1	3.5	2.5	2.8	2.1
15	1.8	2.0	2.6	2.3	1.9	2.2	4.7	4.8	3.5	2.6	2.2	2.1
16	1.8	2.0	2.3	2.3	1.9	2.3	5.0	4.5	3.5	2.6	2.2	2.1
17	1.8	2.0	1.8	2.4	1.8	2.3	4.8	3.9	3.4	2.6	2.2	2.1
18	1.8	2.0	2.0	2.5	1.6	2.5	4.4	3.8	3.4	2.5	3.1	2.1
19	1.8	1.9	1.9	2.2	1.5	2.5	3.9	3.9	3.3	2.6	2.2	2.1
20	1.8	1.9	1.9	2.3	1.5	2.3	4.2	4.2	3.3	2.8	2.2	2.1
21	1.8	1.9	1.7	2.2	1.4	2.4	4.0	4.6	3.2	2.7	2.2	2.1
22	1.8	1.8	1.8	2.0	1.4	2.6	4.3	4.8	3.1	2.7	3.2	2.1
23	1.8	1.8	1.7	2.0	1.4	2.8	4.5	4.7	3.2	2.6	2.3	2.1
24	1.8	1.8	1.7	1.9	1.4	2.8	4.4	4.5	3.1	2.1	2.3	2.1
25	1.8	1.8	1.7	1.9	1.4	2.9	4.3	4.4	3.1	2.2	30	2.1
26	1.8	2.0	1.7	1.9	1.4	3.9	3.8	4.3	3.2	1.9	10	2.1
27	1.8	1.8	1.7	2.0	1.4	4.1	3.9	4.4	3.2	2.0	2.5	2.1
28	2.0	1.4	1.8	1.9	1.4	3.7	4.3	4.3	3.1	2.0	4.0	2.1
29	1.8	1.7	1.8	1.9	-----	3.6	4.7	4.8	3.1	2.1	2.5	2.1
30	1.8	4.4	1.8	1.9	-----	3.8	5.1	4.5	3.2	2.7	2.5	2.1
31	1.8	-----	1.9	1.8	-----	3.2	-----	4.3	-----	3.4	2.3	-----
TOTAL	58.2	58.9	58.0	64.7	46.4	79.3	124.0	153.1	106.5	80.1	166.6	64.1
MEAN	1.88	1.96	1.87	2.09	1.66	2.56	4.13	4.94	3.55	2.58	5.37	2.14
MAX	2.6	4.4	2.6	2.8	1.9	4.1	5.3	6.7	4.1	3.4	50	2.3
MIN	1.8	1.4	1.7	1.6	1.4	1.4	2.9	3.8	3.1	1.9	2.0	2.1
AC-FT	115	117	115	128	92	157	246	304	211	159	330	127

CAL YR 1970 TOTAL 950.4 MEAN 2.60 MAX 15 MIN 1.4 AC-FT 1,890
WTR YR 1971 TOTAL 1,059.9 MEAN 2.90 MAX 50 MIN 1.4 AC-FT 2,100

PEAK DISCHARGE (BASE, 100 CFS).--Aug. 8 (1800) 600 cfs (2.47 ft).

NOTE.--No gage-height record Aug. 8 to Sept. 30.

VIRGIN RIVER BASIN

09406700 South Ash Creek below Mill Creek, near Pintura, Utah

LOCATION.--Lat 37°21'50", long 113°20'01", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.39 S., R.13 W., Washington County, on right bank 150 ft downstream from Harmon Creek, and 3.5 miles northwest of Pintura.

DRAINAGE AREA.--11.0 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 6.60 cfs (4,780 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 98 cfs Nov. 30 (gage height, 2.55 ft); minimum, 0.78 cfs Dec. 21.

Period of record: Maximum discharge, 1,910 cfs Dec. 6, 1966 (gage height, 5.83 ft); minimum, 0.82 cfs Sept. 29, 30, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	1.2	2.4	2.0	2.5	2.6	3.0	3.7	5.6	2.6	1.9	1.9
2	.92	1.2	2.2	2.0	2.5	2.6	3.0	3.9	5.5	2.6	2.1	1.8
3	.97	1.2	2.1	1.9	2.5	2.6	3.0	4.1	5.4	2.6	2.1	1.7
4	.92	1.2	2.0	1.9	2.3	2.6	3.0	4.5	5.4	2.5	2.1	1.7
5	.92	1.2	2.0	1.9	2.7	2.5	3.1	4.8	5.2	2.5	2.0	1.7
6	.92	1.2	2.0	1.9	2.6	2.4	3.1	6.0	5.1	2.5	1.9	1.7
7	.97	1.3	2.0	1.9	2.6	2.4	3.1	7.0	5.1	2.4	1.9	1.7
8	.97	1.2	2.0	1.9	2.6	2.4	3.1	8.1	5.1	2.4	2.7	1.6
9	.97	1.3	2.0	2.0	2.5	2.5	3.2	7.2	4.9	2.3	2.1	1.6
10	.97	1.3	2.0	2.0	2.5	2.5	3.2	6.9	4.8	2.3	1.8	1.5
11	.97	1.3	1.9	2.0	2.5	2.6	3.3	7.1	4.7	2.2	1.7	1.4
12	.97	1.3	1.9	2.0	2.5	2.6	3.3	7.6	4.5	2.2	2.3	1.3
13	.97	1.3	2.0	2.0	2.5	2.7	3.3	8.2	4.2	2.1	1.9	1.3
14	.97	1.3	2.0	2.0	2.5	2.6	3.4	8.5	4.1	2.2	1.9	1.2
15	.97	1.3	2.0	1.9	2.6	2.6	3.4	8.8	4.0	2.1	2.0	1.2
16	1.0	1.3	2.1	2.0	2.6	2.6	3.4	8.7	3.8	2.2	1.8	1.2
17	1.0	1.3	2.0	2.0	2.8	2.6	3.6	8.3	3.7	2.4	1.8	1.1
18	1.1	1.3	1.9	3.9	2.7	2.6	3.9	7.9	3.5	2.2	2.3	1.2
19	1.1	1.3	1.9	5.7	2.7	2.7	3.8	7.6	3.4	2.2	2.2	1.2
20	1.1	1.3	2.1	4.3	2.6	2.7	3.9	7.3	3.3	2.3	2.2	1.2
21	1.1	1.2	1.4	3.2	2.3	2.7	3.9	7.1	3.2	2.3	2.0	1.2
22	1.1	1.2	1.8	2.6	2.8	2.7	3.7	7.4	3.1	2.2	2.8	1.1
23	1.1	1.2	2.3	2.4	2.7	2.7	3.8	6.9	3.0	2.2	2.3	1.1
24	1.1	1.2	2.2	2.4	2.7	2.8	3.7	6.5	2.9	2.2	2.1	1.0
25	1.2	1.2	2.1	2.3	2.7	2.8	3.8	6.4	2.8	2.1	3.0	1.0
26	1.2	2.8	2.1	2.4	2.3	2.9	3.8	6.3	2.8	2.0	2.3	1.0
27	1.2	1.7	2.0	2.4	2.2	2.9	3.8	6.3	2.7	2.0	2.1	1.1
28	1.2	1.5	2.0	2.4	2.6	2.9	3.7	6.1	2.7	1.9	2.5	1.1
29	1.2	3.7	2.0	2.4	-----	2.9	3.7	6.5	2.7	1.9	2.2	1.1
30	1.2	9.1	2.0	2.4	-----	2.9	3.6	6.0	2.7	1.9	2.2	1.1
31	1.2	-----	2.0	2.4	-----	3.0	-----	5.8	-----	2.0	2.1	-----
TOTAL	32.40	50.1	62.4	74.5	71.6	82.6	103.6	207.5	119.9	69.5	66.3	40.0
MEAN	1.05	1.67	2.01	2.40	2.56	2.66	3.45	6.69	4.00	2.24	2.14	1.33
MAX	1.2	9.1	2.4	5.7	2.8	3.0	3.9	8.8	5.6	2.6	3.0	1.9
MIN	.92	1.2	1.4	1.9	2.2	2.4	3.0	3.7	2.7	1.9	1.7	1.0
AC-FT	64	99	124	148	142	164	205	412	238	138	132	79

CAL YR 1970 TOTAL 962.50 MEAN 2.64 MAX 30 MIN .92 AC-FT 1,910
WTR YR 1971 TOTAL 980.40 MEAN 2.69 MAX 9.1 MIN .92 AC-FT 1,940

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

VIRGIN RIVER BASIN

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09408000 Leeds Creek near Leeds, Utah

LOCATION.--Lat 37°16'03", long 113°22'12", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.36, T.40 S., R.14 W., Washington County, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2 miles north of Leeds, and 4 miles upstream from mouth.

DRAINAGE AREA.--15.5 sq mi.

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 (from topographic map). Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

AVERAGE DISCHARGE.--7 years, 7.12 cfs (5,160 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,290 cfs Aug. 25 (gage height, 4.90 ft), from rating curve extended above 81 cfs on basis of slope-area measurement of peak flow; minimum recorded, 0.23 cfs Jan. 3.
Period of record: Maximum discharge, 2,710 cfs Aug. 6, 1967 (gage height, 5.78 ft), site and datum then in use; minimum recorded, 0.23 cfs Jan. 3, 1971.
Maximum discharge measured, 2,980 cfs Aug. 12, 1964 (gage height, 6.00 ft), from slope-area measurement.

REMARKS.--Records good. One diversion above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.2	2.9	2.5	2.8	3.5	2.6	2.5	3.9	6.7	4.0	3.4
2	1.9	2.2	2.7	2.3	2.8	6.6	2.6	2.5	3.8	6.7	4.1	3.4
3	2.0	2.2	2.6	2.2	2.9	6.5	2.5	2.4	3.7	6.8	4.1	3.4
4	1.9	2.2	2.6	2.2	2.9	3.0	2.5	2.7	3.7	6.8	4.4	3.4
5	1.9	2.2	2.6	2.1	2.8	2.8	2.5	2.9	3.7	6.8	4.1	3.4
6	1.9	2.2	2.6	2.2	2.8	3.0	2.5	4.1	3.7	6.6	4.4	3.4
7	1.9	2.3	2.6	2.2	2.8	2.9	2.5	3.6	3.9	6.6	4.4	3.4
8	2.0	2.3	2.6	2.3	2.8	2.8	2.5	3.9	4.0	6.5	4.6	3.4
9	2.0	2.1	2.7	2.4	2.8	2.8	2.5	3.6	4.0	6.5	4.4	3.5
10	2.0	2.1	2.6	2.4	2.8	2.8	2.5	3.6	4.1	6.3	3.9	3.5
11	2.0	2.1	2.6	2.4	2.7	2.8	2.5	3.5	4.4	6.2	3.9	3.5
12	2.0	2.1	2.6	2.5	2.7	2.9	2.5	3.4	4.4	6.1	4.4	3.6
13	2.0	2.2	2.6	2.5	2.7	3.1	2.5	3.4	4.5	6.0	4.1	3.7
14	2.0	2.2	2.6	2.5	2.6	3.0	2.4	3.3	4.5	6.1	8.9	3.9
15	2.0	2.2	2.6	2.5	2.7	3.0	2.4	3.2	4.6	5.9	5.6	4.1
16	2.1	2.2	2.6	2.5	2.7	2.9	2.3	3.2	4.7	5.8	4.6	3.9
17	2.1	2.2	2.6	2.8	3.2	2.9	2.5	3.3	4.9	5.7	4.4	3.9
18	2.1	2.2	2.6	3.3	3.1	2.9	3.0	3.4	5.1	5.6	9.3	3.9
19	2.1	2.2	2.6	3.5	3.2	2.8	2.8	3.3	5.6	5.5	3.8	3.8
20	2.1	2.2	2.6	3.5	3.0	2.8	2.8	3.2	5.8	6.4	5.8	3.8
21	2.1	2.2	2.5	3.4	2.9	2.8	2.8	3.2	5.9	6.6	5.0	3.8
22	2.1	2.2	2.5	3.2	2.8	2.7	2.7	3.6	6.0	5.5	14	3.8
23	2.1	2.2	2.5	3.2	2.8	2.8	2.7	3.5	6.0	5.2	30	3.8
24	2.1	2.2	2.5	3.2	2.8	2.7	2.6	3.4	6.2	5.0	18	3.6
25	2.2	2.3	2.5	3.0	2.8	2.7	2.7	3.3	6.3	4.7	26	3.8
26	2.2	5.3	2.5	3.0	3.6	2.7	2.8	3.4	6.4	4.5	4.6	3.6
27	2.2	2.7	2.7	3.0	5.6	2.5	2.7	3.5	6.5	4.5	3.6	3.6
28	2.2	2.4	2.9	3.0	6.8	2.5	2.7	3.6	6.6	4.4	3.8	3.4
29	2.2	4.2	3.0	3.0	-----	2.5	2.6	4.4	6.7	4.4	3.8	3.4
30	2.2	4.6	3.0	3.0	-----	2.5	2.5	4.1	6.7	4.0	6.1	3.4
31	2.2	-----	2.8	2.8	-----	2.5	-----	3.9	-----	4.2	3.4	-----
TOTAL	63.7	74.1	81.9	84.6	86.9	94.7	77.7	104.9	150.3	178.6	215.5	108.5
MEAN	2.05	2.47	2.64	2.73	3.10	3.05	2.59	3.38	5.01	5.76	6.95	3.62
MAX	2.2	5.3	3.0	3.5	6.8	6.6	3.0	4.4	6.7	6.8	30	4.1
MIN	1.9	2.1	2.5	2.1	2.6	2.5	2.3	2.4	3.7	4.0	3.4	3.4
AC-FT	126	147	162	168	172	188	154	208	298	354	427	215

CAL YR 1970 TOTAL 1,103.0 MEAN 3.02 MAX 7.6 MIN 1.9 AC-FT 2,190
WTR YR 1971 TOTAL 1,321.4 MEAN 3.62 MAX 30 MIN 1.9 AC-FT 2,620

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-18	1900	4.10	671	8-22	1500	2.51	114
8-20	2300	2.02	51	8-25	1900	4.90	1,290

VIRGIN RIVER BASIN

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 downstream from Quail Creek and 6.2 miles west of Hurricane.

DRAINAGE AREA.--1,530 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, about 6,250 cfs Aug. 21 (gage height, 9.00 ft), from rating curve extended above 1,300 cfs on basis of slope-area determination at gage height 17.34 ft; minimum, 30 cfs Aug. 17.

Period of record: Maximum discharge, 12,800 cfs Jan. 25, 1969; minimum, 30 cfs Aug. 17, 1971; maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from floodmarks (discharge, 20,100 cfs).

REMARKS.--Records good. Many diversions above station for irrigation. Record of water temperatures and suspended-sediment loads for the water year 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	124	293	161	187	160	124	100	149	80	109	81
2	69	127	223	178	188	154	103	125	135	78	99	79
3	64	127	200	169	185	155	92	141	129	78	102	74
4	66	109	184	152	172	176	90	148	117	75	125	70
5	64	112	169	138	166	175	91	155	107	75	299	70
6	60	112	172	135	180	158	95	294	100	78	283	70
7	67	117	169	149	171	155	104	341	97	80	394	70
8	67	149	172	143	164	168	110	414	90	73	320	70
9	69	130	175	158	169	172	106	370	89	74	219	70
10	71	122	266	166	168	171	110	375	86	76	414	70
11	74	124	181	178	170	179	115	513	88	74	118	71
12	74	130	169	188	170	178	118	353	92	75	82	71
13	69	149	155	183	170	188	109	299	92	76	76	72
14	69	149	158	184	168	190	140	291	90	78	122	73
15	76	146	163	177	164	162	157	287	86	78	218	75
16	80	141	161	173	161	161	157	284	81	85	70	75
17	80	124	163	176	196	156	168	253	80	77	72	73
18	76	124	169	189	279	156	191	214	82	118	140	72
19	82	119	161	214	224	154	174	193	82	90	309	72
20	93	124	161	216	217	166	145	204	80	89	162	72
21	95	124	175	219	194	162	133	200	78	120	710	72
22	102	124	194	203	178	156	163	179	76	106	200	73
23	112	124	175	187	183	157	134	197	75	96	110	71
24	105	122	155	180	179	166	128	181	75	86	94	67
25	102	122	152	179	173	154	114	156	78	84	90	61
26	109	699	155	182	166	146	114	146	85	73	89	59
27	109	428	163	183	152	152	101	136	83	72	87	57
28	112	213	178	185	152	169	101	119	83	82	85	57
29	119	240	166	184	-----	147	96	145	84	85	84	60
30	127	666	166	183	-----	156	93	171	83	88	83	64
31	133	-----	155	183	-----	139	-----	155	-----	101	82	-----
TOTAL	2,657	5,421	5,498	5,495	5,046	5,038	3,676	7,139	2,752	2,600	5,447	2,091
MEAN	85.7	181	177	177	180	163	123	230	91.7	83.9	176	69.7
MAX	133	699	293	219	279	190	191	513	149	120	710	81
MIN	60	109	152	135	152	139	90	100	75	72	70	57
AC-FT	5,270	10,750	10,910	10,900	10,010	9,990	7,290	14,160	5,460	5,160	10,800	4,150

CAL YR 1970 TOTAL 51,132 MEAN 140 MAX 699 MIN 55 AC-FT 101,400
WTR YR 1971 TOTAL 52,860 MEAN 145 MAX 710 MIN 57 AC-FT 104,800

PEAK DISCHARGE (BASE, 1,500 CFS).--Aug. 21 (2200) about 6,250 cfs (9.00 ft).

VIRGIN RIVER BASIN

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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 upstream from highway bridge, 0.6 mile downstream from Pine Valley Reservoir, 1.6 miles southeast of town of Pine Valley, and 2.5 miles upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 sq mi.

PERIOD OF RECORD.--July 1959 to current year.

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

AVERAGE DISCHARGE.--12 years, 8.40 cfs (6,090 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 30 cfs during period of no record, May 6-26 (gage height, 2.15 ft); maximum gage height, 2.27 ft Feb. 25 (backwater from ice); minimum discharge, 1.2 cfs Oct. 28.

Period of record: Maximum discharge, 776 cfs Dec. 6, 1966 (gage height, 6.85 ft); minimum, 0.53 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.6	2.1	1.8	1.8	1.8	4.8	9.6	9.6	4.8	3.2	3.2
2	1.6	1.6	2.0	1.7	1.9	1.8	4.4	13	9.1	4.8	3.1	3.0
3	1.6	1.6	2.2	1.6	1.9	1.7	4.3	14	9.0	4.6	3.2	3.0
4	1.6	1.6	1.8	1.6	1.8	1.8	4.2	14	8.9	4.5	3.8	2.9
5	1.7	1.6	1.8	1.6	1.9	1.8	4.2	10	8.9	4.4	4.8	2.8
6	1.7	1.6	1.9	1.6	1.9	1.8	4.5	10	9.0	4.3	4.0	2.7
7	1.6	1.7	1.8	1.5	1.9	2.0	4.8	10	9.4	4.2	3.7	2.8
8	1.7	1.6	1.8	1.5	1.7	1.9	4.8	12	10	4.1	4.4	2.7
9	1.7	1.6	1.9	1.7	1.7	2.0	4.8	12	9.9	4.0	3.9	2.6
10	1.7	1.6	1.8	1.8	1.7	2.0	5.3	11	12	3.9	3.3	2.5
11	1.6	1.6	1.7	2.0	1.7	2.1	5.8	12	13	3.9	3.1	2.5
12	1.6	1.6	1.7	2.2	1.6	2.2	6.7	12	13	3.8	3.1	2.4
13	1.6	1.6	1.7	2.4	1.7	2.5	8.6	15	12	3.7	3.1	2.4
14	1.6	1.6	1.6	2.2	1.7	2.3	9.0	17	12	3.7	5.7	2.3
15	1.6	1.5	1.6	2.2	1.7	2.3	7.3	17	12	3.8	5.3	2.2
16	1.7	1.5	1.6	2.2	1.7	2.3	8.6	16	12	3.8	3.7	2.2
17	1.6	1.5	1.6	2.2	2.1	2.3	9.8	18	11	3.8	3.5	2.2
18	1.6	1.5	1.7	2.2	1.8	2.3	7.2	20	10	3.7	3.4	2.3
19	1.7	1.5	1.6	2.2	2.0	2.3	6.4	21	9.5	3.7	3.9	2.4
20	1.6	1.4	1.6	2.2	1.9	2.3	6.6	19	8.7	3.8	3.7	2.3
21	1.6	1.4	1.6	2.2	1.9	2.4	7.3	16	8.0	3.9	5.2	2.3
22	1.7	1.4	1.6	2.2	1.9	2.6	6.4	14	7.1	3.7	4.7	2.3
23	1.6	1.5	1.6	2.2	1.8	3.0	7.1	14	6.7	3.6	3.6	2.3
24	1.6	1.5	1.6	2.2	1.8	3.4	6.5	14	6.2	3.5	3.4	2.2
25	1.6	1.5	1.7	2.0	1.8	3.8	6.6	13	5.8	3.4	3.4	2.1
26	1.6	3.4	1.7	1.9	1.7	4.5	5.9	13	5.5	3.3	3.5	2.1
27	1.7	1.9	1.7	1.9	1.7	6.1	5.4	13	5.3	3.3	4.5	2.1
28	1.6	1.7	1.7	1.9	1.9	5.7	5.3	12	5.2	3.3	5.1	2.1
29	1.7	3.3	1.7	1.8	-----	5.1	5.1	12	5.1	3.2	4.4	2.1
30	1.6	3.5	1.8	1.8	-----	5.5	6.4	12	5.0	3.3	4.0	2.2
31	1.6	-----	1.8	1.8	-----	5.6	-----	11	-----	3.4	3.7	-----
TOTAL	50.7	52.5	54.0	60.3	50.6	89.2	184.1	426.6	268.9	119.2	121.4	73.2
MEAN	1.64	1.75	1.74	1.95	1.81	2.88	6.14	13.8	8.96	3.85	3.92	2.44
MAX	1.7	3.5	2.2	2.4	2.1	6.1	9.8	21	13	4.8	5.7	3.2
MIN	1.6	1.4	1.6	1.5	1.6	1.7	4.2	9.6	5.0	3.2	3.1	2.1
AC-FT	101	104	107	120	100	177	365	846	533	236	241	145

CAL YR 1970 TOTAL 1,331.6 MEAN 3.65 MAX 21 MIN 1.3 AC-FT 2,640
WTR YR 1971 TOTAL 1,550.7 MEAN 4.25 MAX 21 MIN 1.4 AC-FT 3,080

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

NOTE.--No gage-height record May 6-26

VIRGIN RIVER BASIN

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 right bank 0.2 mile downstream from outlet of diversion tunnel and 6 miles southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), July 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft (from topographic map). Prior to September 1962, at site 600 ft upstream at different datum.

AVERAGE DISCHARGE.--11 years (1953-62, 1969-71) 2.11 cfs (1,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 129 cfs Aug. 6 (gage height, 2.23 ft); minimum discharge, no flow during most of year.
Period of record: Maximum discharge, 129 cfs Aug. 6, 1971 (gage height, 2.23 ft); no flow for part of each year.

REMARKS.--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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	0	2.1	5.5	5.8	0	0	.16
2				0	.01	0	2.3	7.0	4.9	0	0	.03
3				0	0	0	2.3	7.9	5.1	0	0	0
4				0	0	0	1.3	8.5	5.1	0	1.8	0
5				0	0	0	1.7	8.8	5.1	0	.25	0
6				0	0	0	1.6	9.1	5.1	0	13	0
7				0	0	0	2.3	9.8	4.8	0	7.3	0
8				0	0	0	2.3	14	5.3	0	8.4	0
9				0	0	0	2.1	17	6.0	0	6.0	0
10				0	0	0	1.0	19	5.8	0	1.0	0
11				0	0	0	1.7	26	5.1	0	0	0
12				0	.05	.06	2.6	27	3.5	0	0	0
13				0	.08	1.0	2.4	26	4.6	0	0	0
14				0	.07	1.2	4.2	23	4.4	0	0	0
15				0	0	1.3	3.8	20	3.6	0	0	0
16				0	0	1.2	3.3	20	3.1	0	0	0
17				0	0	1.9	4.0	19	2.6	0	0	0
18				0	0	6.2	4.9	15	1.5	0	0	0
19				.02	0	5.1	4.4	13	1.2	0	0	0
20				1.3	0	2.8	4.8	12	.74	0	0	0
21				1.1	0	1.5	5.3	11	.29	0	0	0
22				1.0	0	1.2	4.4	10	.16	0	.01	0
23				1.0	0	.88	4.6	9.1	.05	0	.02	0
24				1.0	0	.68	4.4	8.2	0	0	0	0
25				.88	0	.68	5.1	7.6	0	0	0	0
26				.42	0	.74	4.9	6.5	0	0	.11	0
27				0	0	.95	4.4	6.0	0	0	2.1	0
28				.01	0	1.2	4.2	7.6	0	0	.95	0
29				0	-----	1.5	4.2	8.5	0	0	.81	0
30				0	-----	1.6	4.8	8.2	0	.30	.45	0
31		-----		0	-----	2.6	-----	6.7	-----	.93	.45	-----
TOTAL	0	0	0	6.73	.21	34.29	101.4	397.0	83.84	1.23	42.65	.19
MEAN	0	0	0	.22	.008	1.11	3.38	12.8	2.79	.040	1.38	.006
MAX	0	0	0	1.3	.08	6.2	5.3	27	6.0	.93	13	.16
MIN	0	0	0	0	0	0	1.0	5.5	0	0	0	0
AC-FT	0	0	0	13	.4	68	201	787	166	2.4	85	.4

CAL YR 1970 TOTAL 150.05 MEAN .41 MAX 6.4 MIN 0 AC-FT 298
WTR YR 1971 TOTAL 667.54 MEAN 1.83 MAX 27 MIN 0 AC-FT 1,320

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LOCATION.--Lat 37°16'55", long 113°46'00", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 below tailrace of powerhouse.

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

EXTREMES.--Current year: Maximum discharge, 183 cfs Aug. 8 (gage height, 4.16 ft); minimum, 1.03 cfs July 26.

Period of record: Maximum discharge, 190 cfs Sept. 13, 1969 (gage height, 4.50 ft), from rating curve extended above 40 cfs; minimum, 0.53 cfs Sept. 22, 23, 1969.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by several reservoirs above station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.9	21	9.6	11	7.6	8.3	9.2	18	5.2	2.9	12
2	5.2	7.2	19	10	11	9.2	7.9	7.9	18	5.2	3.3	13
3	4.9	6.9	16	9.8	6.9	8.3	6.2	7.9	17	5.8	5.8	12
4	4.9	6.9	17	9.3	10	9.6	7.9	8.7	17	5.2	7.2	11
5	5.2	7.2	15	9.1	7.6	12	5.5	11	16	6.2	3.7	8.3
6	4.2	7.6	15	9.1	6.9	11	6.8	14	16	6.2	5.8	9.2
7	3.9	6.9	16	9.2	7.2	9.2	7.2	14	16	5.8	8.7	9.2
8	4.7	8.3	14	9.2	8.3	9.6	6.8	17	16	6.2	11	7.2
9	4.4	9.2	13	9.2	9.2	7.9	7.9	17	13	6.2	8.3	7.2
10	3.7	8.7	14	8.7	9.2	9.2	6.5	16	14	4.7	4.7	5.8
11	3.7	8.7	14	10	9.2	6.9	5.5	18	15	5.2	4.2	5.8
12	3.9	8.7	13	11	5.5	7.6	6.8	18	16	4.9	5.8	5.8
13	4.2	8.7	12	14	10	5.8	7.6	22	15	4.7	6.5	6.2
14	4.2	8.7	11	11	9.6	5.5	7.9	24	14	4.2	6.9	5.8
15	4.9	8.7	11	12	8.3	7.6	6.5	24	16	4.4	4.4	5.5
16	5.2	9.6	12	12	8.7	6.5	8.6	23	14	4.4	4.9	5.8
17	4.9	9.6	12	12	12	8.7	9.2	25	15	3.9	5.2	5.2
18	5.2	9.2	11	14	11	7.2	9.6	27	15	3.7	3.9	5.5
19	4.9	9.2	11	16	14	7.6	9.2	30	16	3.7	4.4	6.2
20	4.7	7.2	11	19	17	7.2	9.6	29	17	3.7	5.5	7.9
21	4.9	7.2	11	19	17	8.7	9.6	24	17	3.7	15	8.3
22	4.7	7.9	11	16	13	8.7	11	21	16	4.2	13	9.6
23	5.2	7.9	11	13	9.6	7.2	11	20	17	4.4	8.7	9.2
24	5.2	8.7	11	13	9.2	7.9	9.6	20	16	4.2	4.9	11
25	5.8	11	12	14	8.7	7.9	9.6	20	14	4.2	7.2	7.2
26	6.5	24	11	13	10	9.6	11	19	12	3.7	10	3.9
27	6.9	17	12	11	9.6	7.2	10	20	9.2	2.5	13	3.5
28	7.2	14	14	11	8.7	6.8	11	20	8.3	3.3	22	3.7
29	6.9	17	13	12	-----	8.3	11	19	8.3	3.9	13	3.5
30	5.8	37	14	11	-----	6.8	9.6	17	6.9	3.1	12	3.5
31	6.2	-----	11	11	-----	7.2	-----	18	-----	2.9	12	-----
TOTAL	158.7	315.8	409	368.2	278.4	250.5	254.9	580.7	438.7	139.6	243.9	218.0
MEAN	5.12	10.5	13.2	11.9	9.94	8.08	8.50	18.7	14.6	4.50	7.87	7.27
MAX	7.2	37	21	19	17	12	11	30	18	6.2	22	13
MIN	3.7	6.9	11	8.7	5.5	5.5	5.5	7.9	6.9	2.5	2.9	3.5
AC-FT	315	626	811	730	552	497	506	1,150	870	277	484	432
CAL YR 1970	TOTAL	3,709.3	MEAN	10.2	MAX	37	MIN	2.5	AC-FT	7,360		
WTR YR 1971	TOTAL	3,656.4	MEAN	10.0	MAX	37	MIN	2.5	AC-FT	7,250		

VIRGIN RIVER BASIN

09410000 Santa Clara River above Winsor Dam, near Santa Clara, Utah

LOCATION.--Lat 37°13'05", long 113°46'35", in NW¼NW¼SE¼ sec.17, T.41 S., R.17 W., Washington County, on left bank 1.7 miles above Pahoon Spring Wash, 2.3 miles upstream from Winsor Dam, 3.2 miles north of Shivwits Indian Village, and 9 miles northwest of Santa Clara.

DRAINAGE AREA.--338 sq mi, approximately.

PERIOD OF RECORD.--March 1942 to September 1971 (discontinued). Published as Santa Clara Creek above Winsor Dam, near Santa Clara 1942-44.

GAGE.--Water-stage recorder. Altitude of gage is 3,340 ft (by barometer). Prior to July 28, 1951, at site 380 ft upstream. July 28, 1951 to Feb. 17, 1967, at site 350 ft upstream at different datums.

AVERAGE DISCHARGE.--29 years, 21.0 cfs (15,210 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 763 cfs Aug. 21 (gage height, 7.18 ft); minimum, .23 cfs on several days in August and September.

Period of record: Maximum discharge, 6,190 cfs Aug. 24, 1955 (gage height, 10.25 ft, site and datum then in use), from rating curve extended above 260 cfs on basis of slope-area measurements at gage heights 6.25, 6.50, and 9.40 ft; minimum, that of several days in August and September.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Many diversions for irrigation above station. Flow slightly regulated by plants of Southern Utah Power Co.

REVISIONS (WATER YEAR).--WSP 1179: 1945-47 (M), 1948 (P), 1949 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.1	.58	6.1	.79	1.6	8.2	12	22	19	13	.23
2	1.8	2.3	.56	2.6	.72	1.6	8.2	16	22	16	13	.23
3	2.6	2.1	.58	1.6	.72	1.6	9.5	16	22	15	12	.23
4	2.6	1.3	.58	.91	.69	1.8	9.5	16	22	15	13	9.5
5	2.4	.54	.58	.83	.69	1.8	9.5	19	22	15	11	8.3
6	2.4	.53	.58	.72	.69	1.8	9.5	22	22	16	12	18
7	1.8	.53	.66	.66	.69	1.8	8.2	3.3	22	28	11	17
8	2.4	.54	4.0	.66	.69	3.6	8.2	.83	19	28	22	18
9	2.6	.53	12	.66	.69	32	8.2	.72	19	28	16	20
10	2.0	.54	9.5	.66	.69	28	8.2	.69	19	25	61	20
11	2.0	.53	11	.69	.69	25	7.1	.69	19	25	115	20
12	1.6	.54	11	.69	.69	25	7.1	.69	19	25	54	19
13	1.8	.54	12	.69	.72	25	8.2	.69	19	25	12	19
14	1.8	.56	13	.69	.69	22	8.2	.69	16	25	7.1	18
15	2.3	.58	13	.69	1.8	19	15	.72	16	22	3.3	18
16	2.3	.58	12	.69	9.5	19	19	.69	16	22	2.8	17
17	2.3	.58	11	.69	12	19	16	2.1	15	19	2.6	19
18	2.4	.60	11	.69	12	19	16	8.2	13	19	2.6	16
19	2.3	.60	11	.69	7.1	19	19	19	13	19	2.3	16
20	2.0	.60	11	1.1	2.1	22	19	19	13	19	17	13
21	2.1	.60	13	3.6	2.0	19	16	22	13	19	57	12
22	1.8	.62	8.2	4.0	1.8	19	16	25	13	19	40	11
23	2.3	.62	1.1	4.5	1.8	19	19	25	13	19	5.3	11
24	2.0	.62	1.0	4.5	2.3	19	22	25	13	19	2.3	11
25	2.3	.62	1.0	4.5	2.0	16	22	28	15	22	.23	11
26	2.3	25	1.0	4.5	1.8	19	22	28	16	22	27	13
27	2.6	.62	1.0	5.3	1.8	16	22	28	19	22	20	8.0
28	2.6	.62	1.0	5.3	1.8	16	13	25	19	19	.23	5.4
29	2.4	.62	.95	5.3	-----	16	13	28	19	16	.23	.23
30	2.0	.72	1.1	5.3	-----	15	13	22	19	16	.23	.23
31	2.0	-----	9.5	3.3	-----	9.5	-----	22	-----	15	.23	-----
TOTAL	68.8	47.38	184.47	72.81	69.65	473.1	399.8	437.01	529	633	555.45	369.35
MEAN	2.22	1.58	5.95	2.35	2.49	15.3	13.3	14.1	17.6	20.4	17.9	12.3
MAX	3.0	25	13	6.1	12	32	22	28	22	28	115	20
MIN	1.6	.53	.56	.66	.69	1.6	7.1	.69	13	15	.23	.23
AC-FT	136	94	366	144	138	938	793	867	1,050	1,260	1,100	733

CAL YR 1970 TOTAL 3,559.85 MEAN 9.75 MAX 26 MIN .53 AC-FT 7,060
WTR YR 1971 TOTAL 3,839.82 MEAN 10.5 MAX 115 MIN .23 AC-FT 7,620

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1400	5.55	368	8-26	2300	5.48	357
8-21	2000	7.18	763				

VIRGIN RIVER BASIN

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09410400 Santa Clara River near Santa Clara, Utah

LOCATION.--Lat 37°08'23", long 113°41'31", in SE¼SW¼SW¼ sec.7, T.42 S., R.16 W., Washington County, on left bank 1 mile downstream from Whitmore Canyon and 2 miles west of Santa Clara.

DRAINAGE AREA.--410 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--6 years, 22.0 cfs (15,940 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,700 cfs Aug. 28 (gage height, 9.22 ft); minimum daily, 0.28 cfs Oct. 7, 8, May 17.

Period of record: Maximum discharge, 6,390 cfs Dec. 7, 1966 (gage height, 12.60 ft), from slope-area measurement of peak flow; minimum, 0.1 cfs Aug. 14, 15, 16, 1966, Sept. 18, 1968.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Gunlock Reservoir except for flooding between the reservoir and station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	5.4	2.4	1.6	1.0	4.9	10	11	13	9.7	7.3	8.6
2	.68	5.4	1.9	1.3	.94	3.3	10	10	14	9.5	6.7	8.6
3	.22	5.5	1.7	.58	.93	4.8	10	11	13	9.4	6.8	8.6
4	.90	5.5	1.6	.62	.83	5.0	9.8	12	13	9.5	7.0	8.6
5	1.2	2.9	1.5	.64	.95	4.9	9.6	13	13	9.6	6.9	8.7
6	1.6	1.8	1.6	.67	.88	4.8	9.7	14	13	9.6	6.9	8.2
7	.60	1.1	1.5	.63	.81	4.7	9.5	14	13	11	6.9	11
8	.98	1.0	6.6	.68	.77	4.6	9.5	8.0	13	12	21	12
9	1.6	1.0	16	.78	.78	12	9.4	4.8	13	11	17	11
10	1.7	1.0	15	.80	.78	13	9.3	2.8	13	11	13	13
11	1.4	1.0	14	.81	.75	14	9.4	1.7	14	11	14	13
12	.69	1.0	15	.65	.67	14	9.2	15	14	11	13	13
13	.40	.95	14	.59	.73	15	9.1	1.7	14	10	13	13
14	.40	.99	15	.54	.76	15	9.3	.76	13	11	12	12
15	1.3	1.1	14	.54	.68	15	9.4	.54	13	11	11	12
16	1.0	1.1	14	.53	5.4	15	14	.51	12	10	10	12
17	1.8	1.1	13	.53	11	15	14	.38	11	9.3	11	13
18	1.9	1.1	13	.47	11	15	14	5.4	11	9.8	12	12
19	2.1	1.1	14	.46	12	14	14	8.2	11	9.8	9.7	12
20	1.8	1.1	14	.46	5.9	14	13	10	11	9.7	18	12
21	2.0	1.1	15	.46	3.9	13	13	11	11	9.6	81	9.9
22	2.2	1.1	16	.46	6.4	14	13	13	11	10	54	8.2
23	2.6	1.1	5.0	.46	5.1	14	14	12	10	10	15	8.2
24	2.7	1.1	3.2	.46	5.3	14	14	13	10	9.7	3.0	7.8
25	2.9	1.1	2.7	.46	5.4	14	14	12	8.9	9.5	.50	7.9
26	3.6	28	2.4	.46	4.8	13	14	13	9.0	8.9	30	11
27	4.6	5.3	2.6	.40	4.1	14	14	13	11	8.4	82	7.7
28	5.3	2.9	2.4	.40	5.0	14	14	13	10	8.2	75	7.2
29	5.8	3.4	2.3	.40	-----	13	12	14	9.9	7.6	68	3.2
30	5.1	34	2.2	.40	-----	13	11	15	9.8	7.2	77	1.0
31	4.8	-----	3.9	.40	-----	12	-----	14	-----	7.6	9.0	-----
TOTAL	64.56	120.24	247.5	18.64	97.56	356.0	345.2	287.79	355.6	301.6	717.70	294.4
MEAN	2.08	4.01	7.98	.60	3.48	11.5	11.5	9.28	11.9	9.73	23.2	9.81
MAX	5.8	34	16	1.6	12	15	14	15	14	12	82	13
MIN	.22	.95	1.5	.40	.67	3.3	9.1	.38	8.9	7.2	.50	1.0
AC-FT	128	239	491	37	194	706	685	571	705	598	1,420	584
CAL YR 1970	TOTAL	3,348.85	MEAN	9.17	MAX 37	MIN .22	AC-FT	6,640				
WTR YR 1971	TOTAL	3,206.79	MEAN	8.79	MAX 82	MIN .22	AC-FT	6,360				

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	0100	3.84	317	8-28	1000	9.22	2,700
8-21	1800	8.22	2,040				

09415000 Virgin River at Littlefield, Arizona

LOCATION.--Lat 36°53'27", long 113°55'30", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, on right bank 0.4 mile downstream from Beaver Dam Wash, 0.4 mile upstream from Littlefield, and 36 miles upstream from water line of Lake Mead at elevation 1,221 ft above mean sea level.

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

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

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

AVERAGE DISCHARGE.--42 years, 224 cfs (162,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,140 cfs Aug. 15 (gage height, 11.02 ft); minimum daily, 51 cfs Oct. 5.
Period of record: Maximum discharge, 35,200 cfs Dec. 6, 1966 (gage height, 15.66 ft, site then in use), from rating curve extended above 1,500 cfs on basis of slope-area measurement of peak flow; minimum, 39 cfs Aug. 4, 6, 9, 1966.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Diversion above station for irrigation of about 23,200 acres. Water-quality records for the current year are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	141	385	159	164	156	87	69	63	64	64	232
2	56	138	207	168	160	159	90	72	63	64	64	152
3	54	141	192	177	157	159	85	72	63	64	64	108
4	54	144	177	156	153	159	80	85	63	64	79	92
5	51	126	159	153	150	156	82	87	63	64	64	88
6	67	162	156	129	143	153	72	135	63	64	64	100
7	59	147	156	123	137	150	72	356	62	64	101	94
8	59	153	171	135	131	141	72	309	62	64	163	88
9	72	165	177	138	126	144	74	419	62	64	105	82
10	85	144	207	153	120	159	74	338	62	64	74	80
11	67	150	195	185	114	165	77	434	62	64	90	80
12	72	144	162	240	110	147	77	357	62	64	72	78
13	74	153	156	204	148	144	72	273	62	64	61	76
14	59	159	156	186	180	159	72	180	62	64	61	74
15	61	147	156	183	174	150	87	130	63	64	1,090	72
16	59	147	162	180	171	132	87	92	63	64	116	68
17	74	147	162	171	174	126	93	64	63	64	82	64
18	77	135	165	186	265	126	117	64	63	64	84	64
19	87	141	171	183	257	120	129	64	63	64	173	66
20	90	147	165	183	245	123	117	64	63	64	291	64
21	96	132	174	180	201	129	99	64	63	64	454	64
22	80	125	174	186	183	141	96	64	63	64	958	60
23	96	128	180	174	174	135	99	64	63	64	551	66
24	111	122	168	159	174	130	96	64	64	64	1,200	70
25	69	137	159	159	183	130	87	64	64	64	583	68
26	80	269	159	159	174	125	87	64	64	64	536	70
27	85	580	162	156	159	130	87	64	64	64	434	68
28	85	269	168	179	150	125	72	64	64	64	304	72
29	93	186	168	175	-----	123	67	64	64	64	358	70
30	114	552	165	171	-----	114	69	63	64	64	378	66
31	129	-----	156	168	-----	105	-----	63	-----	64	751	-----
TOTAL	2,376	5,431	5,470	5,258	4,677	4,315	2,575	4,366	1,889	1,984	9,469	2,496
MEAN	76.6	181	176	170	167	139	85.8	141	63.0	64.0	305	83.2
MAX	129	580	385	240	265	165	129	434	64	64	1,200	232
MIN	51	122	156	123	110	105	67	63	62	64	61	60
AC-FT	4,710	10,770	10,850	10,430	9,280	8,560	5,110	8,660	3,750	3,940	18,780	4,950
CAL YR 1970	TOTAL 46,341 MEAN 127 MAX 914 MIN 51 AC-FT 91,920											
WTR YR 1971	TOTAL 50,306 MEAN 138 MAX 1,200 MIN 51 AC-FT 99,780											

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
8-15	0500	11.02	6,140	8-24	0500	9.75	3,880
8-22	0500	9.70	3,800	8-30	2200	8.22	1,820

NOTE.--No gage-height record May 14 to Aug. 11.

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 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 at datum 4,186.9 ft above mean sea level, datum of 1929. 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 above mean sea level, November 1877 to November 1879 at Farmington Bay at datum 4,206.9 ft above mean sea level, November 1879 to April 1881 near Black Rock at datum 4,203.1 ft above mean sea level, April 1881 to December 1899 at Garfield Landing at datum 4,198.5 ft above mean sea level, and July 1903 to October 1938 at Saltair at datum 4,196.9 ft above mean sea level. Staff gage at Midlake October 1902 to September 1956 at datum 4,197.9 ft above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum elevation, 4,198.15 ft June 21-29; minimum, 4,194.95 ft Oct. 15.

Period of record: Maximum elevation observed, 4,210.9 ft June 30, 1876; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963.

Maximum elevation since 1851, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

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.

REVISIONS (WATER YEARS).--WSP 1314: 1877

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971		
Day	Gage height	Elevation
Oct. 1.....	8.10	4,195.00
15.....	8.05	4,194.95
Nov. 1.....	8.10	4,195.00
15.....	8.35	4,195.25
Dec. 1.....	8.45	4,195.35
15.....	8.70	4,195.60
Jan. 1.....	8.85	4,195.75
15.....	9.00	4,195.90
Feb. 1.....	9.45	4,196.35
15.....	9.70	4,196.60
Mar. 1.....	9.90	4,196.80
15.....	10.00	4,196.90
Apr. 1.....	10.15	4,197.05
15.....	10.30	4,197.20
May 1.....	10.75	4,197.65
15.....	10.95	4,197.85
June 1.....	11.10	4,198.00
15.....	11.20	4,198.10
July 1.....	11.20	4,198.10
15.....	11.00	4,197.90
Aug. 1.....	10.75	4,197.65
15.....	10.45	4,197.35
Sept. 1.....	10.25	4,197.15
15.....	10.25	4,197.15
Oct. 1.....	10.05	4,196.95

GREAT SALT LAKE BASIN

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 north of Saline at the Southern Pacific Causeway boat harbor, 25 miles west of Ogden and 37 miles 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 above mean sea level, datum of 1929 by levels from U.S. Topographic Division, B.M. 78FMK.

EXTREMES.--Current year: Maximum elevation, 4,196.60 ft June 15; minimum, 4,193.95 ft Oct. 15, Nov. 1.

Period of record: Maximum elevation observed, 4,196.60 ft June 15, 1971; minimum, 4,192.70 ft 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 1970 TO SEPTEMBER 1971		
Day	Gage height	Elevation
Oct. 1.....	4.15	4,194.00
15.....	4.10	4,193.95
Nov. 1.....	4.10	4,193.95
15.....	4.25	4,194.10
Dec. 1.....	4.35	4,194.20
15.....	4.50	4,194.35
Jan. 1.....	4.70	4,194.55
15.....	4.80	4,194.65
Feb. 1.....	5.00	4,194.85
15.....	5.25	4,195.10
Mar. 1.....	5.45	4,195.30
15.....	5.55	4,195.40
Apr. 1.....	5.80	4,195.65
15.....	5.90	4,195.75
May 1.....	6.35	4,196.20
15.....	6.50	4,196.35
June 1.....	6.60	4,196.45
15.....	6.75	4,196.60
July 1.....	6.65	4,196.50
15.....	6.60	4,196.45
Aug. 1.....	6.45	4,196.30
15.....	6.30	4,196.15
Sept. 1.....	6.10	4,195.95
15.....	6.10	4,195.95
Oct. 1.....	5.90	4,195.75

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LOCATION.--Lat 40°55'00", long 110°49'15", in NW¼ sec.16, T.2 N., R.10 E., Summit County, Utah on left bank 300 ft downstream from road bridge, 0.8 mile downstream from head, and 32 miles south of Evanston.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

AVERAGE DISCHARGE.--29 years (1942-71), 5.16 cfs (3,740 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 44 cfs 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 in Hilliard Flat area in Wyoming.

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19							0	.85	18	14	14
2	18							0	.85	18	11	18
3	18							0	.78	18	8.7	24
4	18							0	.78	17	8.7	24
5	18							0	.78	17	8.2	24
6	22							0	.71	17	7.8	24
7	22							0	.65	16	7.6	30
8	20							0	.65	15	7.1	30
9	21							0	.65	32	7.1	28
10	13							0	.50	32	5.1	27
11	.65							0	.50	30	3.7	18
12	.65							0	.44	30	3.6	1.4
13	.65							0	.44	30	3.6	1.2
14	.65							0	.39	30	5.7	1.1
15	.65							0	.31	31	5.5	.97
16	.65							0	.20	30	3.1	.55
17	.65							0	.20	30	.36	.44
18	.65							0	3.0	30	.36	.44
19	.65							0	9.0	28	.27	.39
20	.65							0	9.2	28	.27	.27
21	.65							0	8.2	27	.23	.23
22	.65							0	8.0	26	.27	.23
23	0							0	8.2	25	.20	.20
24	0							0	13	24	.18	.18
25	0							0	20	22	.18	.18
26	0							0	20	19	.15	4.3
27	0							0	20	18	.12	17
28	0							0	19	17	.15	17
29	0				-----			0	19	16	.18	18
30	0				-----			1.0	19	15	1.7	18
31	0	-----			-----		-----	.91	-----	14	11	-----
TOTAL	196.80	0	0	0	0	0	0	1.91	184.28	720	126.52	343.08
MEAN	6.35	0	0	0	0	0	0	.062	6.14	23.2	4.08	11.4
MAX	22	0	0	0	0	0	0	1.0	20	32	14	30
MIN	0	0	0	0	0	0	0	0	.20	14	.12	.18
AC-FT	390	0	0	0	0	0	0	3.8	366	1,430	251	681
CAL YR 1970	TOTAL	1,861.56	MEAN	5.10	MAX	36	MIN	0	AC-FT	3,690		
WTR YR 1971	TOTAL	1,572.55	MEAN	4.31	MAX	32	MIN	0	AC-FT	3,120		

BEAR RIVER BASIN

10011200 West Fork Bear River at Whitney Dam, near Oakley, Utah

LOCATION.--Lat 40°50'30", long 110°55'20", in NE¼ sec.9, T.1 N., R.9 E., Summit County, on left bank, 1,380 ft below Whitney Dam, 7 miles upstream from Deer Creek, 21.5 miles northeast of Oakley.

DRAINAGE AREA.--7.5 sq mi, approximately.

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 (from topographic map).

EXTREMES.--Current year: Maximum discharge, 115 cfs June 22 (gage height, 2.80 ft); minimum daily, 0.67 cfs Apr. 1, 2.

Period of record: Maximum discharge, 145 cfs June 13, 1965 (gage height, 1.95 ft); maximum gage height, 3.08 ft 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. Dead storage 500 acre-ft. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	7.4	1.3	1.3	1.6	.77	.67	.73	1.3	17	4.2	114
2	9.0	4.9	1.3	1.3	1.6	.77	.67	.77	1.3	27	4.1	111
3	9.0	1.4	1.3	1.3	1.6	.77	.70	.80	1.4	29	3.9	108
4	9.0	1.4	1.3	1.3	1.6	.77	.70	.77	1.4	28	4.8	109
5	9.0	1.4	1.3	1.3	1.6	.80	.70	.77	1.4	26	5.7	105
6	9.0	1.3	1.3	1.3	1.6	.80	.70	.77	1.4	24	5.7	105
7	8.9	1.3	1.3	1.3	1.6	.77	.70	.80	1.4	22	5.9	106
8	8.9	1.4	1.3	1.3	1.6	.77	.70	.80	1.5	20	5.3	99
9	8.9	1.4	1.3	1.3	1.6	.77	.70	.80	1.5	18	4.9	98
10	8.9	1.4	1.3	1.3	1.6	.77	.70	.83	1.5	16	4.4	97
11	8.7	1.4	1.3	1.3	1.6	.73	.70	.83	1.4	14	3.8	55
12	8.7	1.4	1.3	1.3	1.6	.77	.70	.86	1.2	13	3.4	6.9
13	8.7	1.4	1.3	1.3	1.6	.77	.70	.86	1.2	12	3.2	6.9
14	8.7	1.4	1.3	1.3	1.6	.77	.70	.96	1.3	11	3.2	6.9
15	8.5	1.3	1.3	1.3	1.6	.77	.70	.93	1.6	11	3.1	6.9
16	8.5	1.3	1.3	1.3	1.6	.77	.73	.96	62	9.6	3.1	6.8
17	8.5	1.3	1.3	1.3	1.6	.73	.73	.96	97	9.3	3.1	6.7
18	8.4	1.3	1.3	1.3	1.6	.70	.73	.96	103	12	3.3	6.8
19	8.4	1.3	1.3	1.3	1.6	.70	.73	.93	101	16	3.1	6.8
20	8.4	1.3	1.3	1.3	1.6	.70	.73	.93	96	13	3.0	6.8
21	8.2	1.3	1.3	1.4	1.6	.70	.73	.93	90	11	3.0	6.8
22	8.2	1.3	1.3	1.4	1.6	.70	.73	.96	109	9.2	3.0	5.6
23	8.2	1.3	1.3	1.4	1.4	.70	.73	1.0	89	8.5	3.0	3.5
24	8.2	1.3	1.3	1.4	.80	.70	.73	1.1	87	7.7	3.0	3.5
25	8.0	1.3	1.3	1.4	.79	.70	.73	1.1	86	6.9	3.2	3.5
26	8.0	1.3	1.3	1.5	.80	.70	.73	1.2	81	6.5	3.4	3.5
27	7.5	1.3	1.3	1.5	.77	.70	.73	1.3	72	5.8	3.4	3.5
28	7.2	1.3	1.3	1.5	.77	.70	.73	1.3	64	5.4	3.9	3.8
29	7.4	1.3	1.3	1.5	-----	.70	.73	1.3	57	4.8	4.6	3.8
30	7.5	1.3	1.3	1.5	-----	.70	.73	1.3	30	4.6	48	3.9
31	7.5	-----	1.3	1.5	-----	.70	-----	1.3	-----	4.4	110	-----
TOTAL	261.2	49.7	40.3	42.0	40.53	22.87	21.39	29.81	1,244.8	422.7	269.7	1,209.9
MEAN	8.43	1.66	1.30	1.35	1.45	.74	.71	.96	41.5	13.6	8.70	40.3
MAX	9.2	7.4	1.3	1.5	1.6	.80	.73	1.3	109	29	110	114
MIN	7.2	1.3	1.3	1.3	.77	.70	.67	.73	1.2	4.4	3.0	3.5
AC-FT	518	99	80	83	80	45	42	59	2,470	838	535	2,400
CAL YR 1970	TOTAL	2,883.64	MEAN	7.90	MAX	70	MIN	.10	AC-FT	5,720		
WTR YR 1971	TOTAL	3,654.90	MEAN	10.0	MAX	114	MIN	.67	AC-FT	7,250		

BEAR RIVER BASIN

129

10011500 Bear River near Utah-Wyoming State line

LOCATION.--Lat 40°57'58", long 110°51'04", in SE¼ sec.30, T.3 N., R.10 E., Summit County, on left bank just downstream from West Fork, 2.8 miles upstream from Utah-Wyoming State line.

DRAINAGE AREA.--176 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (from river-profile map).

AVERAGE DISCHARGE.--29 years, 191 cfs (138,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,640 cfs June 18 (gage height, 3.86 ft); minimum, 26 cfs Nov. 11.

Period of record: Maximum discharge, 2,980 cfs June 6, 1968 (gage height, 3.79 ft); maximum gage height, 4.27 ft June 6, 1957; minimum discharge determined, 16 cfs 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. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station. Records of chemical analysis for the water year 1971 are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	64	60	55	62	50	61	193	630	903	120	159
2	55	59	60	55	61	50	55	267	598	849	114	146
3	52	52	56	55	62	50	58	368	590	876	111	155
4	52	55	56	55	62	52	58	426	638	849	122	155
5	52	61	56	52	62	49	59	362	630	795	133	149
6	62	59	56	52	62	49	72	320	654	742	130	139
7	64	59	56	58	62	49	83	340	742	686	143	267
8	58	55	55	64	62	49	81	335	912	654	133	240
9	62	58	58	67	62	49	96	310	894	598	128	193
10	65	61	56	67	62	49	122	315	1,020	541	106	179
11	56	46	55	65	59	49	146	346	966	485	93	150
12	68	62	55	60	66	46	172	464	786	438	85	85
13	68	53	55	56	62	46	190	477	786	414	79	81
14	70	53	55	54	61	48	236	598	912	408	70	79
15	61	55	55	56	59	51	272	742	1,200	390	68	78
16	65	55	55	56	62	52	295	768	1,480	374	68	78
17	64	56	55	61	62	46	315	569	1,930	362	68	78
18	64	58	55	72	58	46	272	444	2,070	384	83	79
19	66	61	55	76	58	46	228	379	1,910	414	70	79
20	64	60	55	70	56	45	208	352	1,880	368	66	79
21	68	55	55	64	54	45	182	352	1,740	320	64	79
22	68	58	55	62	54	44	162	384	1,880	295	66	78
23	59	55	55	60	54	44	146	368	1,840	280	66	76
24	75	62	55	60	54	45	139	402	1,820	249	62	74
25	61	62	55	60	54	45	139	555	1,570	220	62	72
26	59	59	55	60	52	51	130	726	1,400	186	62	68
27	62	61	55	60	50	61	125	912	1,280	172	61	61
28	56	60	55	68	50	55	117	948	1,090	162	68	59
29	70	60	55	74	-----	54	122	903	1,060	146	91	59
30	70	60	55	62	-----	54	146	849	975	133	108	61
31	66	-----	55	62	-----	54	-----	718	-----	128	176	-----
TOTAL	1,938	1,752	1,730	1,898	1,644	1,523	4,487	15,492	35,883	13,821	2,876	3,335
MEAN	62.5	58.4	55.8	61.2	58.7	49.1	150	500	1,196	446	92.8	111
MAX	75	64	60	76	66	61	315	948	2,070	903	176	267
MIN	52	46	55	52	50	44	55	193	590	128	61	59
AC-FT	3,840	3,480	3,430	3,760	3,260	3,020	8,900	30,730	71,170	27,410	5,700	6,610

CAL YR 1970 TOTAL 69,590 MEAN 191 MAX 1,350 MIN 38 AC-FT 138,000

WTR YR 1971 TOTAL 86,379 MEAN 237 MAX 2,070 MIN 44 AC-FT 171,300

PEAK DISCHARGE (BASE, 1,100 CFS).--June 18 (0230) 2,640 cfs (3.86 ft).

BEAR RIVER BASIN

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10015900 Sulphur Creek below reservoir, near Evanston, Wyo.

LOCATION.--Lat 41°09'22", long 110°50'04", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 miles upstream from mouth, and 10.5 miles southeast of Evanston.

DRAINAGE AREA.--68 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (from topographic map).

AVERAGE DISCHARGE.--7 years (1964-71), 24.5 cfs (17,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 120 cfs June 1, 2 (gage height, 3.47 ft); no flow June 29, 30.
Period of record: Maximum discharge, 343 cfs June 11, 1956 (gage height, 4.96 ft); no flow at times each year.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir 900 ft upstream (capacity, 7,100 acre-ft). Enlargement completed November 1964. Prior to enlargement (capacity, 4,600 acre-ft). Records prior to 1965 do not include flow over spillway of the dam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.4	7.0	4.4	25	31	31	110	120	.01	11	69
2	7.1	7.4	7.1	4.3	25	31	31	109	119	.03	10	72
3	7.0	7.4	7.1	4.3	27	31	31	109	118	.10	9.3	71
4	6.9	7.4	6.9	4.2	27	30	31	109	118	.56	17	71
5	7.1	7.1	6.9	4.0	27	29	32	109	118	1.5	28	70
6	7.4	7.1	6.9	4.0	28	29	32	108	43	3.1	24	54
7	7.4	7.1	6.7	4.0	29	29	32	108	7.9	4.6	22	14
8	7.4	7.1	6.6	3.8	29	29	32	109	7.9	5.7	21	14
9	7.4	7.1	6.6	3.7	30	29	32	109	8.0	5.7	20	14
10	7.4	7.1	6.6	3.7	30	29	33	109	8.1	6.0	20	14
11	7.6	7.1	6.6	3.6	29	29	33	109	8.2	6.2	20	14
12	7.6	7.1	6.4	3.6	29	28	33	109	8.3	7.0	20	14
13	7.6	7.1	6.0	3.6	29	28	33	110	8.4	7.8	20	15
14	7.6	7.1	5.8	3.6	29	28	33	112	8.4	7.8	20	15
15	7.6	7.1	5.7	3.5	29	28	33	113	8.5	7.9	20	15
16	7.6	6.9	5.5	3.4	29	28	33	115	8.4	8.7	22	15
17	7.8	6.9	5.5	9.8	29	28	33	115	8.4	9.8	23	14
18	7.7	6.9	5.5	21	29	28	34	115	8.4	13	23	12
19	7.9	6.9	5.5	21	29	28	34	115	8.4	29	23	9.6
20	7.8	6.9	5.4	21	29	28	34	115	8.4	32	23	9.6
21	7.6	7.1	5.2	21	29	28	33	116	8.4	35	24	9.6
22	7.6	7.1	5.2	21	29	28	34	116	8.1	41	29	9.6
23	7.6	7.1	5.0	21	30	28	34	116	7.6	47	31	9.6
24	7.6	7.3	5.0	21	31	28	34	116	7.6	47	56	9.6
25	7.6	7.4	4.8	21	31	28	34	116	7.6	48	69	9.6
26	7.3	7.1	4.8	21	31	28	34	116	3.6	42	68	9.6
27	7.2	7.1	4.6	22	31	28	34	118	.04	34	67	9.6
28	7.1	7.1	4.6	23	31	28	82	118	.01	27	67	9.6
29	7.1	7.1	4.5	23	-----	30	112	118	0	21	67	9.4
30	7.1	7.1	4.4	24	-----	30	111	118	0	16	66	9.3
31	7.1	-----	4.4	24	-----	31	-----	118	-----	12	66	-----
TOTAL	229.9	213.7	178.8	376.5	810	893	1,192	3,503	794.65	526.50	1,006.3	691.7
MEAN	7.42	7.12	5.77	12.1	28.9	28.8	39.7	113	26.5	17.0	32.5	23.1
MAX	7.9	7.4	7.1	24	31	31	112	118	120	48	69	72
MIN	6.9	6.9	4.4	3.4	25	28	31	108	0	.01	9.3	9.3
AC-FT	456	424	355	747	1,610	1,770	2,360	6,950	1,580	1,040	2,000	1,370
CAL YR 1970	TOTAL	9,239.80	MEAN	25.3	MAX	167	MIN	0	AC-FT	18,330		
WTR YR 1971	TOTAL	10,416.05	MEAN	28.5	MAX	120	MIN	0	AC-FT	20,660		

BEAR RIVER BASIN

10017000 Yellow Creek near Evanston, Wyo.

LOCATION.--Lat 41°08'39", long 111°03'10", in NW¼NW¼NW¼ sec.28, T.5 N., R.8 E., Summit County, Utah, on left bank 600 ft downstream from Sage Creek, 1.5 miles upstream from Coyote Creek, 1.8 miles downstream from Barker Dam, and 9.8 miles southwest of Evanston.

DRAINAGE AREA.--80 sq mi, approximately.

PERIOD OF RECORD.--October 1944 to September 1945, October 1949 to current year. Records for February 1943 to September 1944 at site 1.2 miles 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 (from river-profile map). Oct. 1, 1944 to Sept. 30, 1945, at site 500 ft upstream, at different datums.

AVERAGE DISCHARGE.--23 years (1944-45, 1949-71), 9.64 cfs (6,980 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 179 cfs May 16 (gage height, 6.15 ft); no flow several days.
Period of record: Maximum discharge, 477 cfs Apr. 28, 1952 (gage height, 7.04 ft); no flow at times in each year.

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) completed in fall of 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	9.5	4.5	1.0	2.0	2.0	50	31	80	8.1	.92	0
2	0	8.5	4.5	1.0	2.0	2.0	42	25	70	6.6	.92	0
3	0	8.3	4.5	1.0	2.0	2.7	35	31	64	4.4	.92	0
4	0	7.8	4.5	1.0	2.0	3.5	33	39	63	5.2	.80	0
5	0	7.0	4.5	1.0	2.0	3.0	33	56	54	5.3	.76	0
6	0	7.6	4.5	1.0	2.0	2.5	35	75	46	5.4	.71	0
7	0	8.3	4.5	1.0	2.0	2.7	43	67	50	4.8	.71	0
8	0	9.0	4.5	1.0	2.0	2.6	47	66	54	4.4	.67	0
9	0	8.4	4.5	1.0	2.0	2.6	43	69	52	4.2	.63	0
10	0	8.8	4.5	1.0	2.0	2.5	48	73	50	3.9	.63	0
11	0	9.2	3.0	2.0	2.0	2.8	56	78	55	3.7	.58	.86
12	0	8.9	3.0	2.0	2.0	3.7	53	82	58	3.3	.54	3.3
13	.60	8.6	3.0	2.0	2.0	3.1	46	110	49	3.0	.54	3.0
14	.80	4.8	3.0	2.0	2.0	2.9	44	120	38	2.9	.54	2.9
15	.98	4.5	3.0	2.0	2.0	2.7	45	142	34	2.4	.54	2.6
16	1.0	4.8	3.0	2.0	2.0	2.7	48	171	39	2.2	.54	2.5
17	1.1	4.8	3.0	2.0	2.0	2.7	50	154	38	2.2	.54	2.5
18	1.2	4.8	3.0	2.0	2.0	3.8	50	119	36	2.2	.50	2.2
19	1.3	5.2	3.0	2.0	2.0	5.4	49	107	33	2.2	.41	1.9
20	4.0	5.4	3.0	2.0	2.0	8.0	46	81	29	2.5	.46	1.5
21	9.3	5.6	2.5	2.0	2.0	11	47	44	22	5.8	.46	1.2
22	10	5.7	2.5	2.0	2.0	15	42	50	16	6.6	.46	.86
23	9.8	5.8	2.5	2.0	2.0	22	40	57	17	2.2	.50	.41
24	10	6.0	2.5	2.0	2.0	40	45	63	17	1.3	.33	0
25	10	5.6	2.5	2.0	2.0	80	45	75	16	1.2	.33	0
26	10	5.0	2.5	2.0	2.0	110	47	102	13	1.1	.33	0
27	10	4.5	2.5	2.0	2.0	115	49	115	9.1	1.0	.50	0
28	10	4.5	2.5	2.0	2.0	110	44	113	9.1	1.0	.33	0
29	10	4.5	2.5	2.0	-----	90	38	97	8.9	1.0	.37	0
30	10	4.5	2.5	2.0	-----	80	34	88	8.2	1.0	.41	0
31	10	-----	2.5	2.0	-----	80	-----	94	-----	.92	.04	-----
TOTAL	120.08	195.9	102.5	52.0	56.0	816.9	1,327	2,594	1,128.4	102.02	16.92	25.73
MEAN	3.87	6.53	3.31	1.68	2.00	26.4	44.2	83.7	37.6	3.29	.55	.86
MAX	10	9.5	4.5	2.0	2.0	115	56	171	80	8.1	.92	3.3
MIN	0	4.5	2.5	1.0	2.0	2.0	33	25	8.3	.92	.04	0
AC-FT	238	389	203	103	111	1,620	2,630	5,150	2,240	202	34	51

CAL YR 1970 TOTAL 4,214.87 MEAN 11.5 MAX 111 MIN 0 AC-FT 8,360
WTR YR 1971 TOTAL 6,537.45 MEAN 17.9 MAX 171 MIN 0 AC-FT 12,970

BEAR RIVER BASIN

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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 miles downstream from headgates and 10 miles 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. Altitude of gage is 6,570 ft (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 downstream at same datum.

AVERAGE DISCHARGE.--27 years (1944-71), 19.7 cfs (14,270 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 143 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	57	8.4	4.0	1.0	0	13	44	48	51	11	13
2	0	56	5.8	1.0	1.0	0	13	48	43	46	7.1	14
3	0	51	7.4	0	1.0	0	11	52	63	41	2.4	19
4	0	45	5.1	0	1.0	0	11	57	66	48	4.3	44
5	0	53	7.1	0	1.0	0	9.7	55	69	58	1.0	52
6	0	58	5.3	0	1.0	0	10	37	66	55	1.8	50
7	0	57	7.8	0	1.0	0	11	35	64	44	5.1	47
8	0	61	6.6	0	1.0	1.0	11	36	69	38	7.4	49
9	0	60	5.8	0	1.0	1.0	10	36	81	55	7.4	41
10	0	62	6.0	0	1.0	2.0	11	35	88	57	7.1	33
11	0	65	5.5	0	1.0	2.0	11	42	105	58	6.0	30
12	0	57	5.5	0	1.0	5.0	11	78	98	49	6.0	28
13	0	62	5.0	0	1.0	10	11	80	82	41	4.5	20
14	0	62	6.0	0	1.0	10	11	74	81	37	3.6	15
15	0	62	6.0	0	1.0	10	12	84	89	39	3.1	17
16	0	58	6.0	0	0	10	12	100	97	39	2.2	20
17	0	62	6.0	0	0	10	23	112	108	41	2.2	21
18	0	55	6.0	1.0	0	10	50	87	103	26	.94	23
19	0	60	6.0	2.0	0	10	51	74	114	32	0	21
20	0	65	6.0	2.0	0	10	50	74	115	42	0	19
21	.36	65	5.0	2.0	0	14	49	73	106	43	0	21
22	11	68	5.0	2.0	0	14	48	72	92	42	0	23
23	46	57	5.0	2.0	0	14	44	72	92	49	0	27
24	49	62	5.0	2.0	0	14	46	72	74	60	0	30
25	56	95	5.0	2.0	0	14	47	76	63	51	0	30
26	49	103	4.0	2.0	0	14	47	85	52	44	0	28
27	54	85	4.0	2.0	0	14	48	97	78	39	2.0	31
28	48	49	4.0	2.0	0	14	46	96	77	33	6.8	38
29	45	11	4.0	2.0	-----	14	46	78	66	29	7.1	40
30	58	11	4.0	2.0	-----	14	44	68	59	26	7.8	41
31	57	-----	4.0	2.0	-----	14	-----	60	-----	20	7.8	-----
TOTAL	473.36	1,774	172.3	32.0	15.0	245.0	817.7	2,089	2,408	1,333	114.64	885
MEAN	15.3	59.1	5.56	1.03	.54	7.90	27.3	67.4	80.3	43.0	3.70	29.5
MAX	58	103	8.4	4.0	1.0	14	51	112	115	60	11	52
MIN	0	11	4.0	0	0	0	9.7	35	43	20	0	13
AC-FT	939	3,520	342	63	30	486	1,620	4,140	4,780	2,640	227	1,760
CAL YR 1970	TOTAL	10,882.19	MEAN	29.8	MAX	143	MIN	0	AC-FT	21,580		
WTR YR 1971	TOTAL	10,359.00	MEAN	28.4	MAX	115	MIN	0	AC-FT	20,550		

BEAR RIVER BASIN

10020100 Bear River above reservoir, near Woodruff, Utah

LOCATION.--Lat 41°26'05", long 111°01'00", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, on right bank 9.3 miles upstream from Woodruff Narrows Dam and 10 miles southeast of Woodruff.

DRAINAGE AREA.--780 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (from river-profile map).

AVERAGE DISCHARGE.--10 years, 242 cfs (175,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,000 cfs June 19 (gage height, 5.28 ft); minimum, 3.1 cfs Aug. 20.

Period of record: Maximum discharge, 3,340 cfs June 13, 14, 1965 (gage height, 5.89 ft); minimum, 0.1 cfs Aug. 24, 1964.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	84	134	90	245	120	518	410	1,080	620	10	18
2	43	81	130	90	220	118	398	482	978	530	7.9	19
3	49	66	140	90	205	118	355	602	876	465	6.6	18
4	49	59	150	90	190	118	335	751	876	447	6.6	38
5	45	64	140	90	170	115	330	793	870	429	5.9	54
6	54	77	134	90	165	115	340	751	793	398	4.5	46
7	72	77	150	90	155	118	380	686	732	335	12	56
8	82	86	160	100	155	118	392	745	850	285	18	123
9	81	79	150	110	155	120	375	775	1,010	214	22	109
10	95	77	140	110	160	120	392	732	1,100	190	22	68
11	130	97	125	105	165	150	435	726	1,290	164	20	54
12	107	68	127	100	175	180	447	745	1,220	137	23	45
13	116	90	107	90	185	175	453	918	930	116	19	37
14	116	71	114	100	200	165	459	1,040	906	95	17	24
15	105	50	124	110	190	155	512	1,230	1,090	84	13	18
16	93	54	130	130	185	152	554	1,320	1,380	77	10	15
17	95	77	140	145	175	150	578	1,380	1,650	63	7.9	13
18	99	71	125	160	170	145	572	1,070	1,830	54	7.0	14
19	97	63	115	175	160	145	530	882	1,930	68	5.9	17
20	99	65	110	165	155	160	482	787	1,860	112	4.5	18
21	93	68	110	150	145	185	494	693	1,790	120	4.2	18
22	97	74	110	165	140	220	500	686	1,650	112	3.6	21
23	64	71	110	170	135	260	441	726	1,670	132	3.9	28
24	66	77	110	180	135	310	435	732	1,680	150	4.5	29
25	88	137	110	185	135	540	447	850	1,570	127	4.5	29
26	64	175	100	200	125	720	447	1,070	1,340	109	5.9	26
27	54	125	100	200	125	864	441	1,270	1,150	88	12	24
28	60	123	100	205	120	757	423	1,470	996	71	7.0	32
29	57	147	100	215	-----	638	429	1,570	870	50	5.5	32
30	82	164	100	230	-----	693	392	1,440	757	44	8.4	31
31	91	-----	100	260	-----	781	-----	1,270	-----	24	12	-----
TOTAL	2,484	2,617	3,795	4,390	4,640	8,725	13,286	28,602	36,724	5,910	314.3	1,073
MEAN	80.1	87.2	122	142	166	281	443	923	1,224	191	10.1	35.8
MAX	130	175	160	260	245	864	578	1,570	1,930	620	23	123
MIN	41	50	100	90	120	115	330	410	732	24	3.6	13
AC-FT	4,930	5,190	7,530	8,710	9,200	17,310	26,350	56,730	72,840	11,720	623	2,130

CAL YR 1970 TOTAL 77,534.6 MEAN 212 MAX 1,710 MIN 3.4 AC-FT 153,800
WTR YR 1971 TOTAL 112,560.3 MEAN 308 MAX 1,930 MIN 3.6 AC-FT 223,300

BEAR RIVER BASIN

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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 miles upstream from Wyoming-Utah State line and 7.7 miles east of Woodruff.

DRAINAGE AREA.--810 sq mi, approximately.

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

GAGE.--Water-stage recorder and mercury manometer. Altitude of the gage is 6,405 ft (from levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents, 32,180 acre-ft June 20 (gage height, 37.8 ft); minimum, 11,520 acre-ft Oct. 1, 2.

Period of record: Maximum contents, 32,520 acre-ft June 23-25, 1967 (gage height, 38.0 ft); minimum, 6,480 acre-ft 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 below spillway crest, which includes 18,240 acre-ft of Compact allocation for irrigation, 4,260 acre-ft of irrigation holdover, 4,000 acre-ft for winter release for fish propagation in Utah, and 1,500 acre-ft of storage for fish propagation in Wyoming. Gage height of spillway is 35.3 ft. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,520	15,890		23,520	28,410	28,120	29,930	29,370	30,630	31,200	28,120	18,880
2	11,520	16,000	19,960	23,520	28,410	28,120	29,550	29,370	30,630	31,030	28,120	17,130
3	11,600	16,120	20,060	24,010	28,410	28,120	29,370	29,550	30,630	30,850	28,120	15,570
4	11,600	16,120	20,180	24,140	28,410	28,120	29,180	29,740	30,630	30,850	28,120	14,260
5	11,690	16,240	20,360	24,140	28,410	28,120	29,180	30,080	30,630	30,630	27,970	13,910
6	11,690	16,370	20,510	24,140	28,260	28,120	29,000	30,080	30,630	30,630	27,970	13,690
7	11,690	16,600	20,700	24,260	28,260	28,120	29,000	30,080	30,630	30,410	27,970	13,800
8	11,870	16,710	20,890	24,410	28,260	28,120	29,000	30,080	30,630	30,230	27,970	14,030
9	11,960	16,810	21,180	24,410	28,260	28,120	29,000	30,080	30,630	30,080	27,970	14,260
10	12,150	16,920	21,320	24,560	28,260	28,120	29,180	30,080	30,850	30,080	27,970	14,370
11	12,410	17,130	21,460	24,560	28,260	28,120	29,180	30,080	31,200	29,930	27,970	14,480
12	12,570	17,230	21,600	24,710	28,260	28,120	29,180	30,080	31,200	29,930	27,970	14,590
13	12,740	17,330	21,740	25,170	28,260	28,260	29,180	30,080	31,200	29,740	27,970	14,590
14	12,900	17,440	21,740	25,170	28,260	28,260	29,180	30,410	31,200	29,550	27,970	14,590
15	13,090	17,550	21,880	25,340	28,260	28,260	29,180	30,850	31,370	29,550	27,970	14,590
16	13,270	17,550	22,020	25,340	28,260	28,260	29,370	31,030	31,370	29,370	27,970	14,590
17	13,470	17,660	22,170	25,500	28,260	28,260	29,550	31,200	31,530	29,370	27,970	
18	13,690	17,770	22,310	25,650	28,260	28,260	29,550	31,200	31,850	29,180	27,970	
19	13,800	17,890	22,310	25,970	28,260	28,120	29,550	31,200	32,020	29,000	27,970	
20	14,140	17,890	22,310	26,140	28,260	28,120	29,550	31,200	32,180	29,000	27,970	
21	14,260	18,000	22,590	26,660	28,260	28,120	29,550	31,200	32,020	28,860	27,970	
22	14,480	18,000	22,740	26,660	28,260	28,260	29,550	31,200	31,850	28,860	27,970	
23	14,700	18,260	22,850	26,660	28,120	28,260	29,550	31,200	31,850	28,710	27,970	
24	14,700	18,390	22,890	26,660	28,120	28,410	29,550	31,200	31,690	28,710	27,970	
25	14,900	18,510	23,040	26,660	28,120	28,560	29,550	31,200	31,690	28,560	27,970	
26	15,110	18,880	23,040	26,660	28,120	28,860	29,550	31,200	31,530	28,560	27,830	
27	15,110		23,160	28,260	28,120	29,550	29,550	31,200	31,530	28,410	27,550	
28	15,340		23,160	28,260	28,120	29,930	29,370	31,370	31,370	28,260	25,340	
29	15,340		23,410	28,410	-----	29,930	29,370	31,530	31,370	28,260	23,640	
30	15,570	19,720	23,520	28,410	-----	29,930	29,370	31,530	31,200	28,260	21,880	14,700
31	15,780	-----	23,520	28,410	-----	29,930	-----	31,530	-----	28,260	20,180	-----
MAX	15,780			28,410	28,410	29,930	29,930	31,530	32,180	31,200	28,120	
MIN	11,520			23,520	28,120	28,120	29,000	29,370	30,630	28,260	20,180	
(†)	26.2	29.6	32.4	35.6	35.4	36.5	36.2	37.4	37.2	35.5	30.0	25.2
(±)	+4,260	+3,940	+3,800	+4,890	-290	+1,810	-560	+2,160	-330	-2,940	-8,080	-5,480

CAL YR 1970..... ‡ +5,970

WTR YR 1971..... ‡ +3,180

† Gage height, in feet, at 2400 of last day of month.

‡ Change in contents, in acre-feet.

BEAR RIVER BASIN

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 below Woodruff Narrows Dam, 1.6 miles upstream from Salt Creek, 5.4 miles upstream from Wyoming-Utah State line, and 7.7 miles east of Woodruff.

DRAINAGE AREA.--810 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,400 ft (from river-profile map). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

AVERAGE DISCHARGE.--10 years, 234 cfs (169,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,140 cfs June 20 (gage height, 7.23 ft); minimum daily, 1.4 cfs Aug. 26.
Period of record: Maximum discharge, 3,000 cfs June 14, 1965 (gage height, 7.88 ft); no flow July 4, 5, 1962.

REMARKS.--Records excellent. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200). Diversions for irrigation of about 43,500 acres above station. Records of chemical analysis are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	31	33	226	122	666	392	1,290	742	34	886
2	23	12	31	33	237	119	538	407	1,100	633	24	867
3	23	12	31	33	234	117	448	453	976	538	18	844
4	23	12	32	33	218	118	396	545	787	484	15	681
5	24	12	32	33	197	117	362	657	754	452	12	199
6	24	12	32	33	180	116	346	694	778	424	11	154
7	24	12	32	33	168	109	351	673	751	385	7.5	13
8	19	12	32	33	158	115	370	679	732	343	7.5	13
9	2.6	12	32	33	155	115	372	705	835	291	7.8	13
10	2.2	12	32	33	154	117	373	693	912	238	9.1	13
11	2.6	12	32	33	151	119	387	685	1,060	181	10	13
12	2.1	12	33	33	156	122	405	682	1,130	158	9.9	13
13	2.1	12	33	33	164	166	417	746	997	139	10	14
14	2.2	12	33	33	175	176	428	832	941	121	11	14
15	2.2	12	32	33	190	165	453	950	920	99	11	14
16	2.0	12	33	33	192	157	484	1,090	1,070	90	10	16
17	1.9	12	33	33	187	154	515	1,230	1,290	77	8.6	24
18	1.9	12	33	33	183	148	533	1,150	1,510	69	7.0	24
19	2.0	12	33	33	178	143	545	972	1,700	62	5.5	24
20	2.0	21	33	33	169	140	531	858	1,950	62	4.4	24
21	1.9	30	33	33	156	143	499	765	1,870	66	3.5	24
22	1.9	31	32	35	151	155	495	682	1,710	73	5.0	24
23	1.9	31	33	61	144	182	481	677	1,510	77	2.3	24
24	2.0	31	33	102	137	222	463	673	1,420	85	1.9	24
25	1.9	30	33	142	136	259	457	684	1,490	92	1.6	24
26	2.1	30	33	174	133	312	455	800	1,410	89	1.4	24
27	2.1	31	33	187	128	513	439	954	1,230	82	164	24
28	2.1	31	33	197	124	672	429	1,120	1,090	73	773	24
29	6.2	31	33	203	-----	680	418	1,330	962	61	763	24
30	12	31	33	204	-----	680	406	1,310	851	52	831	24
31	12	-----	33	208	-----	708	-----	1,420	-----	45	908	-----
TOTAL	254.9	556	1,007	2,206	4,781	7,181	13,462	25,508	35,026	6,383	3,688.0	4,103
MEAN	8.22	18.5	32.5	71.2	171	232	449	823	1,168	206	119	137
MAX	24	31	33	208	237	708	666	1,420	1,950	742	908	886
MIN	1.9	12	31	33	124	109	346	392	732	45	1.4	13
AC-FT	506	1,100	2,000	4,380	9,480	14,240	26,700	50,600	69,470	12,660	7,320	8,140
CAL YR 1970	TOTAL	71,507.7	MEAN 196	MAX 1,610	MIN 1.9	AC-FT 141,800						
WTR YR 1971	TOTAL	104,155.9	MEAN 285	MAX 1,950	MIN 1.4	AC-FT 206,600						

BEAR RIVER BASIN

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10020900 Woodruff Creek below reservoir, near Woodruff, Utah

LOCATION.--Lat 41°28'05", long 111°18'54", in SE¼SW¼ sec.31, T.9 N., R.6 E., Rich County, on left bank 0.2 mile downstream from Woodruff Creek Dam, 4.8 miles upstream from Birch Creek, and 8.5 miles southwest of Woodruff.

DRAINAGE AREA.--54.5 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 327 cfs May 16 (gage height, 3.62 ft); no flow Nov. 3-29, Feb. 23 to Apr. 4.

REMARKS.--Records good. Flow regulated by Woodruff Creek reservoir (usable capacity, 3,650 acre-ft). Dead storage, 450 acre-ft. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	9.3	.06	.18	.60		0	76	212	45	54	14
2	6.0	2.8	.06	.18	.60		0	97	218	44	72	14
3	19	0	.06	.18	.60		0	142	210	44	72	14
4	16	0	.06	.18	.60		0	199	215	44	72	14
5	14	0	.06	.12	.60		4.7	191	199	44	72	14
6	14	0	.06	.12	1.0		19	160	208	44	71	14
7	12	0	.12	.12	1.4		41	148	208	44	71	15
8	11	0	.12	.06	1.4		53	139	210	44	70	15
9	11	0	.12	.06	1.4		66	139	203	44	68	15
10	15	0	.12	.06	1.4		85	154	212	44	65	14
11	14	0	.12	.06	1.4		90	199	203	45	64	14
12	11	0	.06	.12	1.4		82	243	173	44	62	14
13	4.0	0	.06	.18	1.4		83	277	150	44	61	14
14	2.3	0	.06	.24	1.4		137	290	139	53	58	14
15	4.2	0	.06	.24	1.4		230	310	137	52	57	14
16	10	0	.06	.30	1.4		230	313	126	49	58	14
17	10	0	.06	.69	1.4		133	279	120	49	57	15
18	10	0	.06	.69	1.4		3.4	238	111	49	56	15
19	9.7	0	.06	.69	1.4		3.4	194	99	49	56	14
20	9.7	0	.06	.69	1.4		21	178	88	49	54	14
21	9.7	0	.06	.60	1.4		64	178	82	49	53	14
22	9.7	0	.06	.60	1.0		60	198	74	49	52	14
23	9.7	0	.06	.60	0		57	198	68	49	30	14
24	10	0	.06	.60	0		58	210	65	48	15	15
25	10	0	.06	.60	0		62	248	61	48	15	15
26	9.7	0	.06	.60	0		64	273	57	53	15	15
27	9.7	0	.06	.60	0		61	280	56	83	14	15
28	9.7	0	.12	.60	0		58	291	62	65	14	15
29	9.3	0	.12	.60	-----		60	281	52	50	14	15
30	9.3	.06	.18	.60	-----		64	247	48	49	14	15
31	9.3	-----	.18	.60	-----		-----	224	-----	48	14	-----
TOTAL	315.0	12.16	2.52	11.76	26.00	0	1,889.5	6,594	4,066	1,515	1,520	432
MEAN	10.2	.41	.081	.38	.93	0	63.0	213	136	48.9	49.0	14.4
MAX	19	9.3	.18	.69	1.4	0	230	313	218	83	72	15
MIN	2.3	0	.06	.06	0	0	0	76	48	44	14	14
AC-FT	625	24	5.0	23	52	0	3,750	13,080	8,060	3,010	3,010	857

WTR YR 1971 TOTAL 16,383.94 MEAN 44.9 MAX 313 MIN 0 AC-FT 32,500

BEAR RIVER BASIN

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 miles upstream from Birch Creek and 6 miles southwest of Woodruff.

DRAINAGE AREA.--65 sq mi, approximately.

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 (from topographic map). Prior to June 21, 1939, nonrecording gage 0.5 mile downstream at different datum. June 21, 1939 to Sept. 30, 1943, water-stage recorder at site 1.5 miles upstream at different datum.

AVERAGE DISCHARGE.--27 years (1937-43, 1949-70), 26.8 cfs (19,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 340 cfs May 16 (gage height, 5.31 ft); minimum daily, 2.9 cfs Dec. 20.
Period of record: Maximum discharge, 528 cfs May 25, 1950 (gage height, 5.72 ft); minimum, 1.1 cfs 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 of hay meadows above and below station. Flow regulated by Woodruff Creek reservoir (usable capacity, 3,650 acre-ft). Dead storage, 450 acre-ft. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	11	3.3	3.3	3.5	3.5	3.9	70	227	52	59	18
2	8.4	10	3.1	3.3	3.5	3.5	3.9	92	226	52	80	17
3	21	4.1	3.1	3.2	3.5	3.5	3.9	133	217	51	80	18
4	18	3.1	3.3	3.2	3.5	3.5	3.9	183	221	50	79	17
5	17	3.0	3.3	3.2	3.5	3.5	11	171	204	50	78	17
6	16	3.0	3.3	3.2	4.5	3.3	39	147	209	50	78	17
7	15	3.1	3.5	3.2	4.5	3.3	49	138	207	50	76	18
8	13	3.0	3.3	3.2	4.5	3.3	53	130	208	50	76	18
9	14	3.1	3.3	3.2	4.5	3.3	57	127	199	50	75	18
10	17	3.3	3.1	3.2	4.5	3.3	69	137	211	50	74	17
11	17	3.3	3.1	3.0	4.5	3.2	76	170	203	50	73	17
12	13	3.3	3.1	3.1	4.5	3.2	69	243	175	50	72	17
13	6.4	3.3	3.1	3.0	4.5	3.2	68	292	157	50	72	17
14	4.8	3.3	3.1	3.0	4.5	3.2	97	310	145	56	70	17
15	6.7	3.1	3.1	3.0	4.5	3.2	178	327	141	56	69	17
16	13	3.1	3.1	3.0	4.5	3.1	181	334	131	53	68	17
17	13	3.1	3.1	3.5	4.5	3.1	125	319	123	53	66	17
18	13	3.1	3.1	5.3	4.5	3.1	7.4	267	115	53	64	17
19	12	3.1	3.1	4.6	4.5	3.1	5.6	213	104	53	63	17
20	12	3.1	2.9	4.1	4.5	3.0	21	184	92	52	62	17
21	12	3.1	3.6	3.7	4.5	3.1	68	182	84	51	62	17
22	12	3.1	3.3	3.6	4.5	3.3	64	198	80	51	60	17
23	12	3.1	3.5	3.5	4.0	3.6	62	198	74	52	40	17
24	13	3.1	3.4	3.5	3.5	4.4	61	205	71	51	17	17
25	12	3.5	3.4	3.5	3.5	3.9	63	255	67	50	16	17
26	12	3.6	3.4	3.5	3.5	5.1	68	299	64	51	16	17
27	12	3.3	3.4	3.3	3.5	5.8	62	307	62	81	16	17
28	11	3.1	3.4	3.3	3.5	4.8	60	324	67	71	17	17
29	11	3.1	3.4	3.3	-----	4.6	60	319	58	56	18	17
30	11	3.3	3.4	3.5	-----	4.8	62	279	54	55	18	17
31	11	-----	3.3	3.6	-----	4.8	-----	245	-----	55	18	-----
TOTAL	387.7	110.8	100.9	106.1	115.5	113.6	1,751.6	6,798	4,196	1,655	1,732	515
MEAN	12.5	3.69	3.25	3.42	4.13	3.66	58.4	219	140	53.4	55.9	17.2
MAX	21	11	3.6	5.3	4.5	5.8	181	334	227	81	80	18
MIN	4.8	3.0	2.9	3.0	3.5	3.0	3.9	70	54	50	16	17
AC-FT	769	220	200	210	229	225	3,470	13,480	8,320	3,280	3,440	1,020
CAL YR 1970	TOTAL	8,654.9	MEAN	23.7	MAX	240	MIN	2.9	AC-FT	17,170		
WTR YR 1971	TOTAL	17,582.2	MEAN	48.2	MAX	334	MIN	2.9	AC-FT	34,870		

BEAR RIVER BASIN

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10026500 Bear River near Randolph, Utah

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, on left bank 3.5 miles upstream from Twin Creek, 4.8 miles upstream from Utah-Wyoming State line, and 11 miles northeast of Randolph.

DRAINAGE AREA.--1,640 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,205 ft (from river-profile map).

AVERAGE DISCHARGE.--28 years, 193 cfs (139,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,500 cfs June 24 (gage height, 7.36 ft); minimum daily, 31 cfs Aug. 27, 28.
Period of record: Maximum discharge, 2,660 cfs May 8, 1952; maximum gage height, 8.99 ft June 17, 1965; minimum discharge, 1.6 cfs Nov. 12, 1961.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres above station. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200). Records of chemical analysis for the water year 1971 are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	70	130	66	270	190	926	620	923	785	114	122
2	45	72	130	65	265	190	874	597	1,020	634	109	186
3	51	74	130	64	260	185	824	599	1,060	532	105	222
4	56	72	130	62	250	180	713	618	976	443	101	248
5	56	72	130	60	230	175	631	659	860	398	95	268
6	65	74	125	61	210	170	592	758	737	348	92	206
7	74	81	120	62	195	170	571	827	645	308	90	134
8	71	81	120	64	190	170	544	884	566	286	86	134
9	67	80	115	66	190	170	539	870	564	259	84	104
10	67	81	110	64	190	180	551	857	597	203	79	110
11	71	81	105	65	190	200	544	857	716	188	76	158
12	66	84	95	64	200	230	527	845	818	164	73	136
13	66	88	85	61	215	270	537	839	1,010	158	71	123
14	66	86	84	60	240	290	541	870	1,140	138	70	116
15	66	87	82	60	280	300	554	906	1,260	130	68	111
16	65	79	80	68	290	290	568	948	1,180	122	65	112
17	64	81	80	74	285	275	594	1,010	1,050	120	63	107
18	64	90	80	78	280	260	656	1,120	968	122	60	116
19	61	88	78	80	275	255	695	1,230	976	122	59	110
20	58	88	78	74	270	260	719	1,320	1,060	125	58	110
21	62	88	76	68	260	290	755	1,270	1,110	128	56	111
22	65	90	76	67	250	350	776	979	1,180	130	50	111
23	67	95	74	70	240	450	737	722	1,350	135	48	105
24	72	101	73	76	230	656	737	653	1,480	138	45	105
25	71	114	72	110	215	690	737	607	1,400	140	43	108
26	70	123	71	170	210	806	728	527	1,260	140	42	107
27	70	124	70	220	205	962	734	494	1,080	138	31	110
28	70	122	68	250	195	990	722	496	1,050	132	31	111
29	68	120	68	250	-----	1,030	690	529	1,010	125	43	111
30	67	125	67	250	-----	1,140	656	639	923	121	129	111
31	68	-----	67	260	-----	1,110	-----	767	-----	118	68	-----
TOTAL	1,994	2,711	2,869	3,109	6,580	12,884	19,972	24,917	29,969	7,030	2,204	4,023
MEAN	64.3	90.4	92.5	100	235	416	666	804	999	227	71.1	134
MAX	74	125	130	260	290	1,140	926	1,320	1,480	785	129	268
MIN	45	70	67	60	190	170	527	494	564	118	31	104
AC-FT	3,960	5,380	5,690	6,170	13,050	25,560	39,610	49,420	59,440	13,940	4,370	7,980
CAL YR 1970	TOTAL	50,333	MEAN	138	MAX	1,050	MIN	12	AC-FT	99,840		
WTR YR 1971	TOTAL	118,262	MEAN	324	MAX	1,480	MIN	31	AC-FT	234,600		

BEAR RIVER BASIN

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., R.120 W., Lincoln County, 800 ft downstream from Pixley Dam, 11 miles south of Cokeville, and 17.5 miles downstream from Twin Creek.

DRAINAGE AREA.--2,040 sq mi, approximately.

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 (from river-profile map). Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

EXTREMES.--Current season: Maximum discharge, 1,200 cfs June 4 (gage height, 7.59 ft); minimum daily, 41 cfs Aug. 29.
Period of record: Maximum daily discharge, 2,300 cfs Mar. 25, 1956; minimum daily recorded, 0.3 cfs Aug. 21, 1961.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas. No diversion between station and Collett Creek Branch of Smiths Fork.

DISCHARGE IN CUBIC FEET PER SECOND, MAY TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								752	772	964	177	59
2								732	945	816	167	78
3								730	1,160	687	153	126
4								747	1,200	594	147	164
5								775	1,160	533	155	218
6								832	1,080	501	147	123
7								896	894	453	134	148
8								950	752	398	124	175
9								984	732	364	114	163
10								982	618	318	92	155
11								975	612	253	98	169
12								966	663	228	94	188
13								961	730	223	88	166
14								972	814	194	79	148
15								1,000	853	150	64	148
16								1,030	850	159	59	140
17								1,060	827	156	53	132
18								1,080	874	120	53	128
19								1,110	504	116	54	134
20								1,140	845	134	52	126
21								1,180	848	152	51	123
22								1,180	861	166	52	126
23								1,070	867	180	50	126
24								869	883	174	49	129
25								767	899	172	46	129
26								708	915	172	44	129
27								608	918	183	44	129
28								564	899	200	43	132
29								579	883	199	41	132
30								610	1,020	202	42	132
31		-----			-----		-----	682	-----	183	69	-----
TOTAL								27,491	26,278	9,344	2,635	4,175
MEAN								887	876	301	85.0	139
MAX								1,180	1,200	964	177	218
MIN								564	612	116	41	59
AC-FT								54,530	52,120	18,530	5,230	8,280

THE SEASON AC-FT 138,700

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LOCATION.--Lat 42°16'52", long 110°52'05", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, on left bank 4.5 miles upstream from Howland Creek, 6 miles downstream from Hobble Creek, and 12 miles northeast of Border.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (from topographic map). Prior to Oct. 16, 1945, at site 0.8 mile downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,610 cfs June 18 (gage height, 5.61 ft); minimum daily 62 cfs Mar. 19.

Period of record: Maximum discharge, 1,610 cfs June 18, 1971 (gage height, 5.61 ft); minimum recorded, 35 cfs Mar. 21, 1955, result of freezeup.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres above station.

REVISIONS (WATER YEARS).--WSP 1734: 1952(M).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	79	78	70	74	65	69	469	1,120	847	332	179
2	92	79	77	70	73	65	67	593	1,100	811	318	171
3	94	80	77	70	72	65	69	738	1,080	805	312	179
4	94	82	78	70	70	65	68	860	1,050	786	305	179
5	94	94	77	70	70	65	69	841	1,020	750	298	171
6	99	84	77	70	70	65	73	744	1,080	719	295	162
7	99	84	77	70	70	65	79	774	1,070	701	279	164
8	96	84	79	70	70	65	84	768	1,160	678	282	162
9	97	80	79	70	70	65	90	823	1,260	654	282	157
10	106	84	75	70	70	65	108	902	1,380	632	257	152
11	97	77	75	70	70	65	122	902	1,440	620	248	152
12	97	86	75	70	70	66	124	986	1,410	598	245	150
13	94	80	75	70	70	67	119	1,060	1,380	572	239	148
14	92	78	75	70	69	65	130	1,120	1,380	557	233	148
15	91	86	75	70	71	65	152	1,130	1,440	541	230	145
16	91	82	75	75	70	65	166	1,210	1,490	521	224	145
17	90	80	75	80	68	65	195	1,060	1,540	507	221	148
18	88	80	75	86	68	63	212	872	1,570	502	209	148
19	88	78	75	85	68	62	198	725	1,550	492	206	145
20	86	78	75	84	67	65	187	672	1,500	474	203	145
21	88	78	75	82	65	65	187	593	1,460	464	203	143
22	90	77	75	80	65	65	212	615	1,430	451	200	141
23	86	78	75	80	65	67	209	598	1,430	437	195	139
24	92	88	75	79	65	68	224	683	1,390	424	190	137
25	85	102	75	79	65	67	257	780	1,340	407	190	132
26	84	92	75	79	65	69	266	890	1,270	395	187	134
27	85	85	75	78	65	72	242	1,060	1,210	387	181	139
28	91	84	75	75	65	69	251	1,240	1,110	372	181	139
29	86	84	75	75	-----	66	282	1,270	980	364	203	137
30	84	-----	75	75	-----	69	350	1,350	908	350	198	139
31	82	-----	75	74	-----	73	-----	1,160	-----	342	184	-----
TOTAL	2,830	2,478	2,349	2,316	1,920	2,048	4,861	27,488	38,548	17,160	7,330	4,530
MEAN	91.3	82.6	75.8	74.7	68.6	66.1	162	887	1,285	554	236	151
MAX	106	102	79	86	74	73	350	1,350	1,570	847	332	179
MIN	82	77	75	70	65	62	67	469	908	342	181	132
AC-FT	5,610	4,920	4,660	4,590	3,810	4,060	9,640	54,520	76,460	34,040	14,540	8,990
CAL YR 1970	TOTAL 66,069		MEAN 181	MAX 890	MIN 55	AC-FT 131,000						
WTR YR 1971	TOTAL 113,858		MEAN 312	MAX 1,570	MIN 62	AC-FT 225,800	</					

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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 mile west of Wyoming-Idaho State line, 0.5 mile west of Border, and 2.1 miles upstream from Thomas Fork.

Period of record: Maximum discharge, 3,680 cfs May 11, 1952 (gage height, 8.89 ft); minimum daily, 30 cfs Aug. 18-22, 1940.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 122,000 acres above station. Records of chemical analysis for the water year 1971 are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	210	253	230	350	300	2,000	1,400	2,150	2,020	511	259
2	208	207	246	230	350	280	1,940	1,400	2,160	1,920	499	251
3	180	203	240	230	325	260	1,750	1,420	2,250	1,750	475	263
4	178	199	265	230	305	250	1,510	1,520	2,360	1,590	452	301
5	173	205	260	230	295	250	1,350	1,730	2,420	1,450	416	321
6	167	212	260	220	290	250	1,240	1,900	2,460	1,370	400	357
7	180	226	260	220	290	250	1,240	1,880	2,350	1,260	382	296
8	197	230	260	220	290	250	1,300	1,940	2,110	1,190	374	326
9	226	229	250	220	300	250	1,260	2,000	1,980	1,090	364	352
10	240	228	240	220	350	250	1,260	2,060	2,000	1,040	360	343
11	240	229	240	220	350	250	1,300	2,110	2,010	960	326	322
12	230	226	235	220	360	300	1,260	2,160	2,110	880	301	331
13	226	234	225	220	370	350	1,130	2,220	2,210	832	290	338
14	222	228	220	210	380	400	1,090	2,310	2,300	805	285	322
15	218	212	220	205	400	480	1,100	2,410	2,390	718	274	314
16	212	220	210	205	430	520	1,120	2,520	2,480	690	259	312
17	212	223	210	220	450	490	1,180	2,600	2,580	697	246	308
18	208	226	210	240	420	460	1,280	2,630	2,660	683	246	305
19	205	226	215	250	420	450	1,350	2,580	2,710	683	246	308
20	203	224	220	250	420	420	1,420	2,480	2,800	645	248	308
21	201	214	225	250	390	400	1,420	2,370	2,760	662	236	303
22	205	220	230	250	360	440	1,420	2,260	2,620	652	216	301
23	212	222	235	250	340	600	1,460	2,200	2,520	652	222	301
24	224	226	240	250	325	800	1,480	2,080	2,480	642	244	296
25	230	253	240	260	320	1,000	1,480	1,920	2,470	616	244	288
26	224	290	240	260	320	1,100	1,520	1,830	2,420	599	253	281
27	207	283	240	275	320	1,600	1,500	1,820	2,360	583	248	285
28	193	270	240	290	320	2,100	1,450	1,800	2,340	571	226	296
29	205	296	240	310	-----	2,250	1,420	1,880	2,220	571	230	296
30	218	285	240	330	-----	2,200	1,400	2,000	2,060	551	240	303
31	214	-----	240	350	-----	2,200	-----	2,100	-----	539	251	-----
TOTAL	6,431	6,955	7,345	7,565	9,840	21,400	41,630	63,530	70,740	28,901	9,564	9,187
MEAN	207	232	237	244	351	690	1,388	2,049	2,358	932	309	306
MAX	240	296	265	350	450	2,250	2,000	2,630	2,800	2,020	511	357
MIN	167	199	210	205	290	250	1,090	1,400	1,980	539	216	251
AC-FT	12,760	1										

BEAR RIVER BASIN

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 miles upstream from State line, 1.5 miles downstream from Giraffe Creek, and 3.5 miles northeast of Geneva, Idaho.

DRAINAGE AREA.--113 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (from topographic map). Prior to Aug. 23, 1957, at site 0.2 mile upstream at different datum.

AVERAGE DISCHARGE.--22 years, 52.7 cfs (38,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,040 cfs May 14 (gage height, 3.84 ft); minimum, 6.6 cfs Nov. 22. Period of record: Maximum discharge, 1,040 cfs May 14, 1971 (gage height, 3.84 ft); minimum, 2.6 cfs Mar. 2, 1956, result of freezeup.

REMARKS.--Records good except those for winter periods, which are fair. No diversion above station. Records of chemical analysis for the water year 1971 are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	19	16	21	15	28	471	405	125	52	33
2	15	16	18	16	19	15	28	575	377	120	50	32
3	15	16	18	16	18	15	28	680	350	118	50	37
4	15	16	19	16	18	15	29	710	337	117	52	36
5	15	16	18	14	18	15	28	705	319	113	52	34
6	16	18	18	13	17	15	29	641	326	109	50	32
7	16	19	18	14	17	15	35	660	300	105	49	34
8	16	19	18	15	17	15	43	705	286	99	50	32
9	17	17	18	17	17	15	52	746	283	94	50	31
10	23	19	19	18	17	15	76	783	276	91	45	30
11	19	18	20	18	18	15	88	812	289	88	44	29
12	18	18	18	17	18	15	81	852	258	86	43	29
13	16	16	18	16	18	18	82	846	240	83	42	28
14	16	16	18	15	18	18	92	913	226	80	41	28
15	16	16	18	14	18	16	116	840	216	77	40	28
16	16	16	18	15	18	16	143	873	208	74	39	28
17	16	15	18	17	18	15	170	725	199	72	39	29
18	15	16	18	23	18	15	189	609	189	69	37	29
19	15	15	18	25	18	15	158	523	184	70	36	28
20	15	16	18	23	18	15	162	523	178	67	36	28
21	16	14	18	23	17	15	177	457	170	67	35	29
22	17	13	18	22	17	15	217	448	164	65	35	29
23	14	16	18	22	17	17	207	425	159	69	34	28
24	19	25	18	21	17	22	246	445	152	67	34	27
25	16	42	18	20	17	22	284	460	148	63	34	27
26	16	28	18	22	15	23	288	483	143	60	33	27
27	17	23	18	22	15	28	249	512	143	58	32	29
28	19	19	18	21	15	26	261	512	147	57	32	31
29	20	20	18	21	-----	29	294	489	136	55	42	29
30	19	22	18	21	-----	26	362	485	128	54	42	30
31	18	-----	19	21	-----	28	-----	417	-----	53	35	-----
TOTAL	516	556	564	574	489	559	4,242	19,325	6,936	2,525	1,285	901
MEAN	16.6	18.5	18.2	18.5	17.5	18.0	141	623	231	81.5	41.5	30.0
MAX	23	42	20	25	21	29	362	913	405	125	52	37
MIN	14	13	18	13	15	15	28	417	128	53	32	27
AC-FT	1,020	1,100	1,120	1,140	970	1,110	8,410	38,330	13,760	5,010	2,550	1,790

CAL YR 1970 TOTAL 14,104 MEAN 38.6 MAX 348 MIN 13 AC-FT 27,980
WTR YR 1971 TOTAL 38,472 MEAN 105 MAX 913 MIN 13 AC-FT 76,310

PEAK DISCHARGE (BASE, 150 CFS).--May 14 (0230) 1,040 cfs (3.84 ft).

BEAR RIVER BASIN

145

10044000 Bear River at Harer, Idaho

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 downstream from Sheep Creek, 0.8 mile north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 miles southeast of Dingle.

DRAINAGE AREA.--2,780 sq mi, approximately.

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (from topographic map). Prior to Aug. 24, 1914, staff gage at site 1,500 ft downstream at different datum.

AVERAGE DISCHARGE.--58 years, 512 cfs (370,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,570 cfs May 19 (gage height, 10.55 ft); minimum daily, 150 cfs Jan. 5.
Period of record: Maximum discharge, 4,440 cfs May 7, 1952 (gage height, 11.04 ft); minimum daily, 26 cfs Aug. 21-27, 1934.

REMARKS.--Records good. Diversions above station for irrigation of about 140,000 acres.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	238	313	165	380	330	2,190	1,840	2,620	2,230	606	313
2	204	235	291	160	370	320	2,140	1,880	2,640	2,170	584	316
3	238	232	255	160	370	320	2,050	1,940	2,660	2,020	570	310
4	201	230	278	155	400	340	1,830	2,020	2,680	1,830	544	360
5	201	230	290	150	440	365	1,660	2,160	2,740	1,670	566	410
6	196	240	295	150	480	370	1,550	2,340	2,790	1,550	536	447
7	198	258	250	150	440	385	1,520	2,480	2,800	1,460	494	455
8	214	263	270	155	380	410	1,610	2,540	2,740	1,390	447	402
9	230	263	326	155	370	440	1,620	2,600	2,590	1,350	447	494
10	281	269	300	155	360	462	1,590	2,690	2,460	1,270	439	474
11	281	269	260	155	350	490	1,620	2,760	2,420	1,180	402	451
12	278	275	220	160	360	511	1,590	2,820	2,420	1,070	346	421
13	266	278	190	165	370	579	1,490	2,900	2,450	988	326	447
14	263	278	180	170	380	549	1,380	3,020	2,500	930	326	428
15	263	269	195	170	395	663	1,360	3,130	2,520	863	313	399
16	249	263	195	160	410	784	1,370	3,270	2,550	744	306	377
17	260	275	200	160	443	902	1,400	3,380	2,590	748	291	374
18	258	278	205	200	460	824	1,480	3,480	2,640	768	310	343
19	252	278	205	240	480	780	1,570	3,560	2,700	764	291	339
20	243	275	210	260	480	768	1,630	3,490	2,720	719	278	350
21	246	269	210	280	460	740	1,660	3,340	2,760	748	269	356
22	243	260	210	260	450	694	1,650	3,190	2,760	727	255	353
23	249	269	210	250	440	689	1,720	3,040	2,700	715	240	356
24	266	272	205	280	440	760	1,780	2,890	2,630	748	252	363
25	284	291	195	290	380	1,060	1,810	2,780	2,580	736	272	350
26	284	339	194	295	370	1,280	1,860	2,610	2,550	706	320	346
27	272	360	189	290	360	1,370	1,900	2,500	2,520	676	303	346
28	249	343	186	300	350	1,720	1,870	2,440	2,490	663	288	363
29	246	310	175	310	-----	2,260	1,840	2,400	2,460	654	272	381
30	252	323	170	323	-----	2,390	1,830	2,450	2,370	654	269	392
31	258	-----	165	370	-----	2,260	-----	2,530	-----	628	300	-----
TOTAL	7,626	8,232	7,037	6,643	11,368	25,815	50,570	84,470	78,050	33,369	11,462	11,516
MEAN	246	274	227	214	406	833	1,686	2,725	2,602	1,076	370	384
MAX	284	360	326	370	480	2,390	2,190	3,560	2,800	2,230	606	494
MIN	196	230	165	150	350	320	1,360	1,840	2,370	628	240	310
AC-FT	15,130	16,330	13,960	13,180	22,550	51,200	100,300	167,500	154,800	66,190	22,730	22,840

CAL YR 1970 TOTAL 134,561 MEAN 369 MAX 1,550 MIN 100 AC-FT 266,900
WTR YR 1971 TOTAL 336,158 MEAN 921 MAX 3,560 MIN 150 AC-FT 666,800

BEAR RIVER BASIN

10046000 Rainbow inlet canal near Dingle, Idaho

LOCATION.--Lat 42°13'48", long 111°17'43", in SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, on left bank 1.5 miles west of Dingle and 1.8 miles downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft above mean sea level (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--49 years, 321 cfs (232,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,270 cfs May 20 (gage height, 7.94 ft); minimum, 115 cfs Jan. 7.

Period of record: Maximum discharge, 4,180 cfs May 7, 1952 (gage height, 8.62 ft); minimum daily, 1 cfs 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 NE¼ 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	138	260	250	126	331	233	2,060	1,700	2,010	1,400	494	219
2	138	233	224	130	304	260	2,040	1,740	2,050	1,380	468	217
3	159	208	212	136	304	245	1,940	1,780	2,110	1,420	462	219
4	147	210	226	130	402	288	1,740	1,840	2,120	1,380	429	228
5	130	186	224	124	376	290	1,530	1,950	2,140	1,360	358	247
6	136	199	231	126	438	285	1,440	2,140	2,190	1,400	333	262
7	141	215	188	121	384	260	1,380	2,310	2,210	1,320	361	299
8	153	222	226	130	339	238	1,430	2,410	2,220	1,180	336	283
9	171	224	286	126	312	262	1,500	2,410	2,040	1,120	306	293
10	199	224	226	128	333	255	1,470	2,460	1,610	1,040	317	306
11	219	222	186	128	353	270	1,480	2,530	1,400	980	304	301
12	224	224	159	128	322	273	1,480	2,580	1,380	880	275	288
13	226	224	138	159	325	288	1,400	2,660	1,410	837	245	286
14	233	228	136	167	333	320	1,260	2,730	1,440	787	238	291
15	226	222	151	136	347	317	1,210	2,800	1,440	749	226	275
16	219	203	159	132	361	399	1,230	2,920	1,500	653	224	260
17	222	206	178	138	367	465	1,250	2,930	1,520	597	219	257
18	217	215	184	165	390	519	1,320	3,070	1,540	590	215	235
19	212	215	188	186	420	429	1,420	3,190	1,560	586	222	226
20	208	212	201	215	420	447	1,460	3,200	1,570	576	199	231
21	210	206	159	233	420	432	1,560	3,180	1,620	583	199	238
22	208	199	163	212	415	438	1,550	3,030	1,640	576	199	233
23	203	203	175	199	405	456	1,560	2,930	1,620	569	188	245
24	215	208	186	228	320	513	1,630	2,780	1,580	563	197	245
25	222	222	147	252	336	667	1,670	2,670	1,540	576	212	243
26	231	245	145	255	304	924	1,730	2,170	1,520	586	224	231
27	222	280	149	250	301	1,060	1,780	2,130	1,500	563	210	231
28	208	275	138	247	257	1,120	1,780	1,970	1,500	546	184	238
29	201	252	141	267	-----	1,530	1,710	1,910	1,480	539	182	262
30	210	247	153	280	-----	1,860	1,700	1,860	1,490	536	184	262
31	231	-----	145	299	-----	2,220	-----	1,920	-----	519	208	-----
TOTAL	6,079	6,689	5,674	5,553	9,919	17,563	46,710	75,900	50,950	26,391	8,418	7,651
MEAN	196	223	183	179	354	567	1,557	2,448	1,698	851	272	255
MAX	233	280	286	299	438	2,220	2,060	3,200	2,220	1,420	494	306
MIN	130	186	136	121	257	233	1,210	1,700	1,380	519	182	217
AC-FT	12,060	13,270	11,250	11,010	19,670	34,840	92,650	150,500	101,100	52,350	16,700	15,180
CAL YR 1970	TOTAL	87,371	MEAN	239	MAX	1,100	MIN	39	AC-FT	173,300		
WTR YR 1971	TOTAL	267,497	MEAN	733	MAX	3,200	MIN	121	AC-FT	530,600		

BEAR RIVER BASIN

147

10046500 Bear River below Stewart Dam, near Montpelier, Idaho

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 downstream from Stewart Dam and 4.5 miles south of Montpelier.

DRAINAGE AREA.--2,820 sq mi, approximately.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (from topographic map).

AVERAGE DISCHARGE.--49 years, 51.8 cfs (37,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 754 cfs June 22 (gage height, 5.52 ft); minimum, 1.3 cfs Jan. 12.
Period of record: Maximum daily discharge, 3,050 cfs 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	4.2	5.6	4.8	1.7	3.8	1.8	4.6	4.4	136	617	14	12
2	4.4	4.6	4.2	1.7	4.2	1.8	4.2	4.4	134	494	13	12
3	4.8	4.4	3.4	1.6	4.2	1.8	3.8	4.6	124	322	12	12
4	5.0	4.0	3.6	1.7	3.6	2.0	3.2	5.6	126	232	12	11
5	4.8	3.8	3.6	1.7	3.8	2.2	2.9	6.5	127	129	12	11
6	4.8	3.6	4.0	1.7	3.8	2.3	2.6	6.8	131	20	12	12
7	4.6	3.8	3.4	1.6	3.6	2.2	2.8	6.8	132	16	11	12
8	4.6	3.8	3.6	1.7	3.6	2.3	2.9	6.2	131	14	10	13
9	4.8	3.8	4.0	1.7	3.6	2.5	3.4	6.5	160	11	10	12
10	5.0	4.0	3.4	1.6	3.6	2.5	3.2	6.8	535	9.2	9.6	14
11	5.0	3.8	2.8	1.9	3.8	2.6	3.4	7.7	683	7.7	8.8	14
12	5.3	3.8	2.6	1.3	3.8	2.9	3.6	8.4	683	7.4	8.0	14
13	5.3	3.6	2.6	1.3	4.0	3.2	3.4	8.4	674	8.8	7.4	14
14	5.0	3.8	2.4	1.4	3.8	3.2	2.9	8.8	680	6.8	7.4	14
15	5.0	3.8	2.3	1.5	3.8	3.4	2.9	8.4	686	4.2	7.1	14
16	5.0	3.6	2.3	1.5	3.8	4.0	2.8	8.4	689	9.1	7.4	14
17	5.0	3.6	2.2	1.5	3.8	4.2	2.8	8.4	701	17	7.4	14
18	5.3	3.6	2.3	1.6	3.8	4.0	2.9	10	714	16	7.4	13
19	5.3	3.6	2.2	1.6	3.6	4.0	3.0	12	723	16	7.7	14
20	5.3	3.8	2.2	1.8	3.4	4.0	3.4	12	738	15	8.8	13
21	4.4	3.8	2.0	1.8	3.4	4.0	3.6	11	744	15	13	13
22	3.8	3.8	2.0	1.9	3.4	3.6	3.2	10	751	14	14	12
23	3.6	3.8	2.0	1.9	3.0	3.8	3.2	9.6	741	14	12	11
24	3.6	3.6	2.0	1.9	2.8	3.8	3.6	9.2	720	14	12	11
25	3.6	3.8	1.9	1.9	2.8	3.8	3.4	11	701	14	13	11
26	4.0	4.4	1.9	2.2	2.6	4.4	3.4	52	689	14	14	10
27	3.8	5.6	1.9	2.3	2.4	4.0	3.8	116	671	14	12	9.6
28	4.2	5.6	1.8	2.3	1.8	3.6	4.0	123	665	14	13	10
29	4.0	5.0	1.8	2.5	-----	5.0	4.2	132	662	14	12	11
30	4.2	4.8	1.7	2.7	-----	8.4	4.2	132	650	14	12	12
31	4.6	-----	1.7	2.9	-----	5.9	-----	134	-----	14	12	-----
TOTAL	142.3	122.6	82.6	56.4	97.6	107.2	101.3	890.9	15,701	2,127.2	332.0	369.6
MEAN	4.59	4.09	2.66	1.82	3.49	3.46	3.38	28.7	523	68.6	10.7	12.3
MAX	5.3	5.6	4.8	2.9	4.2	8.4	4.6	134	751	617	14	14
MIN	3.6	3.6	1.7	1.3	1.8	1.8	2.6	4.4	124	4.2	7.1	9.6
AC-FT	282	243	164	112	194	213	201	1,770	31,140	4,220	659	733
CAL YR 1970	TOTAL	1,683.7	MEAN	4.61	MAX	9	MIN	1.7	AC-FT	3,340		
WTR YR 1971	TOTAL	20,130.7	MEAN	55.2	MAX	751	MIN	1.3	AC-FT	39,930		

REMARKS.--Records excellent. One small diversion above station for irrigation. Flow regulated by Montpelier Creek reservoir (usable capacity, 3,840 acre-ft) between sill of outlet gate and elevation 6,515.2 ft (crest of spillway). Dead storage, 210 acre-ft. Earthfill dam 82 ft high, completed December 1970 and storage began Dec. 23, 1970. Storage in 1971 reached an elevation of 6,513.8 ft.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	9.5	9.8	3.8	7.3	8.3	9.0	96	81	72	61	58
2	10	9.2	9.4	3.6	7.2	8.9	9.0	102	81	72	60	48
3	10	8.9	9.2	3.5	7.2	8.6	9.0	112	86	69	61	49
4	9.8	8.6	9.5	3.5	7.2	6.5	9.1	120	85	67	62	48
5	9.9	9.6	9.3	3.4	7.3	6.2	9.3	121	85	66	62	47
6	11	9.7	8.6	3.3	7.1	6.3	10	123	87	65	61	47
7	11	11	8.3	3.3	7.9	6.4	11	129	86	63	61	39
8	10	11	9.7	4.5	7.6	6.5	12	135	86	59	57	24
9	11	10	9.7	4.5	8.3	6.5	13	137	88	58	52	20
10	15	11	9.5	4.4	8.5	6.5	14	141	94	57	48	19
11	12	9.7	6.5	4.2	8.5	6.4	14	142	112	55	44	19
12	11	10	7.1	4.6	8.5	6.6	14	145	126	52	38	18
13	11	9.7	5.7	4.6	8.5	8.1	17	147	121	51	38	17
14	10	8.7	5.7	4.6	8.5	7.3	34	150	119	51	38	15
15	10	8.2	5.6	4.1	8.6	7.1	63	149	117	51	37	15
16	10	9.0	5.6	4.7	8.7	6.9	77	151	112	51	37	15
17	10	9.3	5.4	5.5	8.7	7.1	94	137	108	51	36	15
18	10	9.4	5.2	6.3	8.7	6.8	96	134	100	51	27	15
19	10	9.3	5.1	5.7	8.7	6.8	100	136	98	49	22	15
20	10	9.2	5.2	5.6	8.5	6.9	115	139	99	40	21	15
21	10	9.2	5.4	5.4	8.5	6.9	119	136	102	39	21	15
22	11	8.6	5.1	5.3	8.4	6.9	118	137	102	40	21	15
23	10	9.1	4.7	5.5	8.4	7.8	99	122	101	41	20	15
24	11	11	5.2	5.4	8.4	8.7	84	114	97	41	20	15
25	10	16	4.6	5.4	8.6	8.6	88	114	88	41	20	15
26	9.8	13	4.2	5.5	8.6	8.7	90	84	85	41	21	15
27	8.7	12	4.3	6.5	8.5	9.4	88	86	85	43	21	15
28	8.6	10	4.3	6.7	8.5	8.8	87	86	79	47	21	15
29	8.9	9.7	4.3	6.7	-----	8.6	87	81	74	56	22	15
30	9.4	11	4.2	6.7	-----	9.0	90	80	73	61	23	15
31	9.6	-----	4.2	7.1	-----	9.4	-----	78	-----	61	45	-----
TOTAL	318.5	300.6	200.6	153.9	229.4	233.5	1,679.4	3,764	2,857	1,661	1,178	708
MEAN	10.3	10.0	6.47	4.96	8.19	7.53	56.0	121	95.2	53.6	38.0	23.6
MAX	15	16	9.8	7.1	8.7	9.4	119	151	126	72	62	58
MIN	8.6	8.2	4.2	3.3	7.1	6.2	9.0	78	73	39	20	15
AC-FT	632	596	398	305	455	463	3,330	7,470	5,670	3,290	2,340	1,400
CAL YR 1970	TOTAL	6,791.2	MEAN	18.6	MAX	69	MIN	4.2	AC-FT	13,470		
WTR YR 1971	TOTAL	13,283.9	MEAN	36.4	MAX	151	MIN	3.3	AC-FT	26,350		

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 miles east of St. Charles.

DRAINAGE AREA.--435 sq mi, 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 above mean sea level, unadjusted (levels by Utah Power & Light Company). October 1903 to June 1906, staff gage at different site and datum.

EXTREMES.--Current year: Maximum contents, 1,384,000 acre-ft June 25 to July 8 (elevation, 5,923.12 ft); minimum, 1,088,000 acre-ft Mar. 20-28 (elevation, 5,918.89 ft).

Period of record: Maximum contents, 1,423,000 acre-ft June 10, 1923 (elevation, 5,923.68 ft); no usable contents Nov. 9-19, 1935 (elevation, 5,902.00 ft, lower limit of pumps).

REMARKS.--Outflow regulated by gates and pumps at Bear Lake and by gates in dike at north end of Mud Lake. Inflow to lake augmented by water diverted from Bear River through Rainbow inlet canal and Dingle inlet canal, which empty into Mud Lake (see station 10046000). Water from Mud Lake reaches Bear Lake by a sluice at pumping plant or by gates in causeway at south end of Mud Lake. Capacity, 1,421,000 acre-ft between elevation 5,902.00 (lower limit of pumps) and 5,923.65 ft (present feasible 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	5,921.00	1,234,900
5,919.00	1,095,200	5,921.50	1,269,900
5,919.50	1,130,000	5,922.00	1,305,000
5,920.00	1,164,900	5,922.50	1,340,100
5,920.50	1,199,900	5,923.20	1,389,500

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,111	1,115	1,127	1,107	1,098	1,095	1,093	1,207	1,353	1,384	1,358	1,294
2	1,110	1,115	1,128	1,106	1,098	1,095	1,095	1,211	1,354	1,384	1,356	1,293
3	1,110	1,115	1,128	1,104	1,098	1,094	1,097	1,215	1,356	1,384	1,355	1,291
4	1,110	1,115	1,128	1,103	1,097	1,094	1,098	1,220	1,359	1,384	1,354	1,289
5	1,110	1,115	1,128	1,102	1,097	1,094	1,099	1,223	1,361	1,384	1,352	1,286
6	1,110	1,115	1,128	1,100	1,097	1,093	1,101	1,227	1,364	1,384	1,351	1,283
7	1,109	1,117	1,127	1,099	1,097	1,092	1,103	1,232	1,367	1,384	1,349	1,281
8	1,108	1,118	1,127	1,097	1,097	1,092	1,105	1,237	1,370	1,384	1,348	1,278
9	1,108	1,119	1,127	1,097	1,096	1,092	1,107	1,242	1,372	1,383	1,346	1,276
10	1,108	1,120	1,127	1,097	1,096	1,092	1,110	1,248	1,373	1,383	1,344	1,275
11	1,108	1,121	1,127	1,097	1,095	1,091	1,113	1,253	1,375	1,382	1,342	1,273
12	1,108	1,122	1,127	1,097	1,095	1,091	1,116	1,259	1,376	1,382	1,339	1,272
13	1,108	1,122	1,126	1,097	1,094	1,091	1,119	1,264	1,377	1,382	1,337	1,270
14	1,108	1,122	1,124	1,097	1,094	1,090	1,122	1,270	1,377	1,382	1,335	1,267
15	1,108	1,122	1,124	1,097	1,094	1,090	1,126	1,276	1,377	1,381	1,334	1,264
16	1,108	1,122	1,123	1,097	1,094	1,090	1,129	1,282	1,378	1,380	1,332	1,262
17	1,108	1,123	1,122	1,098	1,094	1,089	1,132	1,288	1,378	1,379	1,330	1,259
18	1,108	1,123	1,122	1,099	1,094	1,089	1,136	1,294	1,379	1,379	1,329	1,256
19	1,108	1,123	1,120	1,100	1,094	1,089	1,142	1,300	1,380	1,378	1,327	1,253
20	1,108	1,124	1,120	1,101	1,095	1,088	1,148	1,306	1,381	1,378	1,325	1,252
21	1,109	1,124	1,119	1,101	1,095	1,088	1,153	1,313	1,382	1,376	1,320	1,251
22	1,109	1,124	1,118	1,101	1,095	1,088	1,158	1,320	1,382	1,375	1,317	1,250
23	1,110	1,124	1,118	1,101	1,095	1,088	1,164	1,326	1,383	1,373	1,312	1,248
24	1,110	1,124	1,117	1,100	1,095	1,088	1,169	1,332	1,383	1,372	1,308	1,245
25	1,111	1,124	1,115	1,100	1,095	1,088	1,175	1,337	1,384	1,371	1,304	1,243
26	1,113	1,125	1,115	1,100	1,095	1,088	1,180	1,342	1,384	1,370	1,301	1,242
27	1,113	1,126	1,113	1,100	1,095	1,088	1,186	1,345	1,384	1,368	1,300	1,240
28	1,113	1,126	1,112	1,099	1,095	1,088	1,191	1,347	1,384	1,367	1,299	1,238
29	1,114	1,126	1,111	1,099	-----	1,089	1,196	1,349	1,384	1,365	1,298	1,236
30	1,114	1,127	1,110	1,099	-----	1,090	1,202	1,350	1,384	1,363	1,297	1,234
31	1,115	-----	1,108	1,099	-----	1,091	-----	1,351	-----	1,361	1,296	-----
MAX	1,115	1,127	1,128	1,107	1,098	1,095	1,202	1,351	1,384	1,384	1,358	1,294
MIN	1,108	1,115	1,108	1,097	1,094	1,088	1,093	1,207	1,353	1,361	1,296	1,234
(†)	5,919.28	5,919.45	5,919.19	5,919.05	5,919.00	5,918.94	5,920.53	5,922.66	5,923.12	5,922.79	5,921.87	5,920.98
(‡)	+4.0	+12.0	-19.0	-9.0	-4.0	-4.0	+111.0	+149.0	+33.0	-23.0	-65.0	-62.0
CAL YR 1970.....	‡											
WTR YR 1971.....	‡											

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

BEAR RIVER BASIN

10058600 Bloomington Creek at Bloomington, Idaho

LOCATION.--Lat 42°11'05", long 111°25'30", in SE¼SE¼ sec.21, T.14 S., R.43 E., Bear Lake County, on left bank 1 mile west of Bloomington.

DRAINAGE AREA.--24.4 sq mi.

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

GAGE.--Water-stage recorder 4 feet above 8-foot concrete flume. Altitude of gage is 6,070 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 28.5 cfs (20,650 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 248 cfs June 11 (gage height, 4.66 ft); minimum, 9.7 cfs Mar. 12.
Period of record: Maximum discharge, 248 cfs June 11, 1971 (gage height, 4.66 ft); minimum, 9.4 cfs Jan. 27, 1961, Feb. 26, 1962.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	21	19	17	20	17	24	47	140	116	54	37
2	22	20	19	17	19	17	23	52	137	112	53	36
3	22	20	18	17	18	17	24	59	139	111	53	39
4	21	20	19	17	18	17	25	66	144	108	52	37
5	21	20	19	17	19	17	27	62	144	105	51	36
6	21	21	19	16	19	17	30	60	151	102	50	35
7	21	21	19	16	18	17	33	65	156	98	50	37
8	21	20	19	16	18	17	35	68	163	96	49	35
9	23	20	19	16	18	17	37	70	174	95	49	35
10	25	21	19	16	18	17	42	73	189	92	48	34
11	22	20	18	16	18	17	41	79	218	90	47	34
12	22	20	17	16	18	16	39	89	187	87	46	34
13	22	20	17	16	18	18	39	96	177	84	46	33
14	21	18	18	16	19	16	41	114	182	81	44	33
15	21	18	18	16	19	16	48	118	188	80	44	33
16	21	20	18	16	18	16	49	133	193	78	43	33
17	21	20	18	18	18	16	51	115	202	76	43	33
18	21	20	18	19	18	15	49	94	201	74	42	32
19	21	19	17	22	18	16	46	85	196	73	41	32
20	21	19	17	21	18	16	43	85	185	72	41	32
21	21	19	17	21	18	16	44	78	177	70	41	32
22	22	19	17	20	17	16	46	77	175	68	41	32
23	21	19	17	19	17	20	45	77	171	66	40	31
24	23	25	17	19	17	24	47	88	166	64	40	31
25	21	24	17	19	17	21	49	105	158	63	39	31
26	21	22	17	18	17	28	48	119	152	61	39	31
27	19	20	17	19	17	30	47	135	154	60	38	31
28	20	20	17	18	17	26	43	141	145	58	38	31
29	21	19	17	18	-----	28	42	142	130	57	40	31
30	21	19	17	18	-----	30	44	140	121	56	38	31
31	21	-----	17	19	-----	26	-----	131	-----	55	37	-----
TOTAL	663	604	552	549	504	597	1,201	2,863	5,015	2,508	1,377	1,002
MEAN	21.4	20.1	17.8	17.7	18.0	19.3	40.0	92.4	167	80.9	44.4	33.4
MAX	25	25	19	22	20	30	51	142	218	116	54	39
MIN	19	18	17	16	17	15	23	47	121	55	37	31
AC-FT	1,320	1,200	1,090	1,090	1,000	1,180	2,380	5,680	9,950	4,970	2,730	1,990
CAL YR 1970	TOTAL	10,634	MEAN	29.1	MAX	146	MIN	14	AC-FT	21,090		
WTR YR 1971	TOTAL	17,435	MEAN	47.8	MAX	218	MIN	15	AC-FT	34,580		

BEAR RIVER BASIN

151

10059500 Bear Lake outlet canal near Paris, Idaho

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 downstream from headgates (at dike) and 3 miles southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,912.6 ft above mean sea level (from topographic survey).

AVERAGE DISCHARGE.--49 years, 345 cfs (250,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,840 cfs June 26 (gage height, 20.49 ft); minimum daily, 14 cfs on many days.
Period of record: Maximum daily discharge, 1,870 cfs Aug. 8, 1924; minimum daily, 1 cfs for many days in 1937, 1954, 1959, 1961, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Discharge measurements generally made six times a week during periods of release from Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

BEAR LAKE OUTLET CANAL NEAR PARIS, IDAHO

NUMBER 10059500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	420	680	736	700	480	20	1,510	1,560	1,430	1,070
2	16	14	411	733	692	700	355	20	1,510	1,560	1,440	1,060
3	16	14	422	730	643	700	188	20	1,490	1,560	1,480	1,120
4	16	14	465	698	652	700	172	128	1,360	1,550	1,440	1,120
5	16	14	465	698	560	700	203	283	1,470	1,540	1,480	1,120
6	16	14	463	704	660	700	200	291	1,650	1,530	1,540	1,130
7	16	14	460	706	669	709	201	236	1,720	1,480	1,480	1,120
8	16	14	470	706	641	689	201	212	1,750	1,390	1,540	1,070
9	16	14	480	704	657	686	184	213	1,770	1,260	1,540	1,060
10	16	14	490	715	660	709	20	208	1,750	1,140	1,560	1,030
11	16	14	505	715	660	724	20	213	1,750	1,040	1,550	997
12	16	14	505	725	663	747	20	198	1,760	1,040	1,520	980
13	16	14	510	725	695	849	20	198	1,750	1,050	1,470	970
14	16	14	540	725	692	852	20	260	1,720	1,030	1,490	915
15	15	14	540	725	698	849	20	339	1,740	1,130	1,480	993
16	15	14	550	724	692	852	20	339	1,740	1,300	1,450	1,030
17	15	14	600	721	675	896	20	328	1,750	1,360	1,450	1,030
18	15	14	640	715	663	870	20	343	1,760	1,490	1,390	1,020
19	14	14	650	721	665	871	20	348	1,770	1,500	1,390	1,020
20	14	14	650	715	670	852	20	459	1,770	1,500	1,390	666
21	14	14	660	721	680	865	20	705	1,760	1,480	1,390	43
22	14	14	680	730	685	846	20	865	1,800	1,420	1,430	29
23	14	172	700	733	690	834	20	877	1,800	1,360	1,400	408
24	14	458	735	759	700	798	20	816	1,800	1,350	1,430	831
25	14	413	735	741	680	753	20	819	1,760	1,340	1,430	825
26	14	434	735	715	680	692	20	894	1,690	1,320	1,350	813
27	14	427	735	706	709	655	20	1,210	1,660	1,320	1,210	919
28	14	415	735	706	689	672	20	1,540	1,660	1,350	1,170	1,350
29	14	411	727	721	-----	680	20	1,470	1,620	1,400	1,170	1,360
30	14	415	718	730	-----	572	20	1,450	1,530	1,430	1,140	1,280
31	14	-----	698	724	-----	507	-----	1,480	-----	1,470	1,080	-----
TOTAL	466	3,453	18,094	22,271	18,856	23,229	2,604	16,782	50,570	42,250	43,710	28,379
MEAN	15.0	115	584	718	673	749	86.8	541	1,686	1,363	1,410	946
MAX	16	458	735	759	736	896	480	1,540	1,800	1,560	1,560	1,360
MIN	14	14	411	680	560	507	20	20	1,360	1,030	1,080	29
AC-FT	924	6,850	35,890	44,170	37,400	46,070	5,170	33,290	100,300	83,800	86,700	56,290

CAL YR 1970 TOTAL 87,146.6 MEAN 239 MAX 1,140 MIN 5.0 AC-FT 172,900
WTR YR 1971 TOTAL 270,664.0 MEAN 742 MAX 1,800 MIN 14 AC-FT 536,900

NOTE.--No gage-height record Oct. 1 to Nov. 23.

BEAR RIVER BASIN

10068500 Bear River at Pescadero, Idaho

LOCATION.--Lat 42°24'30", long 111°21'30", in SE¼ sec.6, T.12 S., R.44 E., in Bear Lake County, on left bank at Pescadero, 400 ft downstream from road bridge, 2 miles downstream from Bennington Creek, and 6.5 miles northwest of Montpelier.

PERIOD OF RECORD.--October 1921 to September 1954. June 1968 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (from topographic map).

AVERAGE DISCHARGE.--35 years (1921-54, 1969-71), 573 cfs (415,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,240 cfs June 23 (gage height, 7.09 ft); minimum daily, 58 cfs Oct. 4.
Period of record: Maximum daily discharge, 3,840 cfs June 10, 1923; minimum daily, 23 cfs Mar. 14-17, 1936.

REMARKS.--Records good except those for winter months, which are fair. Many diversions above station for irrigation. Flow regulated by Bear Lake (see sta 10055500).

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	85	622	900	900	840	1,050	528	2,100	2,840	1,560	1,270
2	60	85	620	920	900	840	986	496	2,180	2,810	1,550	1,250
3	59	83	640	920	860	840	758	487	2,280	2,780	1,570	1,300
4	58	104	680	900	840	840	666	510	2,260	2,740	1,570	1,330
5	60	98	677	900	840	840	704	722	2,250	2,620	1,600	1,340
6	64	101	655	900	840	840	830	818	2,340	2,500	1,650	1,350
7	70	113	655	900	840	840	944	776	2,480	2,360	1,630	1,360
8	71	120	650	900	840	840	1,050	716	2,550	2,230	1,650	1,320
9	80	122	672	900	840	840	1,120	699	2,610	2,050	1,680	1,270
10	97	137	699	900	840	840	1,040	704	2,690	1,830	1,680	1,250
11	100	127	720	900	840	962	950	704	2,830	1,610	1,700	1,200
12	95	123	720	900	840	860	842	694	2,970	1,470	1,680	1,180
13	91	123	720	900	840	962	764	688	3,100	1,400	1,640	1,170
14	90	116	760	900	840	986	672	752	3,160	1,360	1,640	1,160
15	84	97	760	900	840	992	616	842	3,180	1,350	1,640	1,170
16	83	101	760	900	840	986	585	896	3,170	1,490	1,600	1,190
17	87	115	810	900	840	1,010	560	980	3,180	1,540	1,600	1,200
18	88	134	840	900	840	1,040	585	1,030	3,200	1,670	1,560	1,220
19	92	113	860	900	840	1,050	595	1,110	3,200	1,720	1,530	1,210
20	91	113	860	900	840	992	616	1,150	3,200	1,710	1,530	1,170
21	95	112	880	900	840	1,010	600	1,320	3,210	1,680	1,540	506
22	95	110	890	910	840	992	595	1,510	3,220	1,660	1,560	192
23	95	118	900	920	840	998	565	1,610	3,220	1,570	1,560	173
24	104	472	940	930	840	1,020	546	1,590	3,220	1,530	1,560	806
25	102	595	940	910	840	962	555	1,530	3,180	1,500	1,550	956
26	102	622	940	900	840	938	616	1,510	3,070	1,480	1,530	950
27	92	628	940	900	840	950	688	1,640	3,020	1,470	1,420	968
28	94	622	940	900	840	992	682	1,890	3,000	1,450	1,350	1,290
29	97	611	920	900	-----	1,070	628	1,990	2,960	1,500	1,370	1,470
30	91	628	920	900	-----	1,080	575	2,010	2,910	1,510	1,380	1,500
31	87	-----	900	900	-----	1,060	-----	2,050	-----	1,560	1,310	-----
TOTAL	2,634	6,728	24,490	28,010	23,660	29,312	21,983	33,952	85,940	56,990	48,350	33,721
MEAN	85.0	224	750	904	845	946	733	1,095	2,865	1,838	1,561	1,124
MAX	104	628	940	930	900	1,080	1,120	2,050	3,220	2,840	1,700	1,500
MIN	58	83	620	900	840	840	546	487	2,100	1,350	1,310	173
AC-FT	5,220	13,340	48,580	55,560	46,930	58,140	43,600	67,340	170,500	113,000	95,980	66,890
CAL YR 1970	TOTAL 141,667		MEAN 388	MAX 1,210	MIN 58	AC-FT 281,000						
WTR YR 1971	TOTAL 395,810		MEAN 1,084	MAX 3,220	MIN 58	AC-FT 785,100						

BEAR RIVER BASIN

153

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 feet below roadbridge, 0.3 mile north of Eightmile Ranger Station, and 8.4 miles south of Soda Springs.

DRAINAGE AREA.--23.3 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 16.2 cfs (11,740 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 160 cfs June 18 (gage height, 2.57 ft); minimum, 2.3 cfs Feb. 21, Mar. 2.

Period of record: Maximum discharge, 160 cfs June 18, 1971 (gage height, 2.57 ft); minimum, 0.98 cfs, Mar. 3-5, 10, 20, 21, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	4.3	4.2	3.6	4.1	3.0	8.0	42	127	93	21	11
2	5.3	4.3	4.3	3.3	4.0	2.8	7.8	51	124	92	21	10
3	5.3	4.2	4.0	3.4	3.9	3.0	7.6	61	125	87	20	13
4	5.2	4.2	4.1	3.3	3.5	3.0	7.6	71	125	81	20	11
5	5.3	4.4	4.2	3.3	4.1	2.9	8.8	67	127	75	19	11
6	5.5	4.5	4.3	3.2	4.0	2.8	11	70	129	70	19	10
7	5.4	4.6	4.2	3.2	4.0	2.9	14	76	130	66	18	11
8	5.3	4.6	4.4	3.3	3.8	2.9	16	76	131	62	18	10
9	6.1	4.5	4.8	3.4	3.7	2.9	19	76	138	58	17	9.9
10	6.5	5.2	4.5	3.4	3.9	2.9	24	82	142	54	16	9.6
11	5.4	4.6	3.9	3.6	3.8	2.9	24	90	141	51	16	9.3
12	5.4	4.6	3.2	3.6	3.6	3.5	22	95	135	48	16	8.9
13	5.2	4.3	3.3	3.6	3.4	4.5	21	103	139	46	15	8.9
14	5.0	4.2	3.4	3.5	3.3	3.8	24	101	139	44	15	8.9
15	4.9	4.3	3.5	3.6	3.4	3.6	27	98	134	41	14	9.0
16	4.7	4.4	3.6	3.6	3.4	3.6	29	105	124	39	14	8.9
17	4.5	4.3	3.6	3.7	3.4	3.6	31	104	138	37	14	8.8
18	4.4	4.5	3.6	3.8	3.4	3.5	30	98	148	36	14	8.8
19	4.4	4.4	3.5	3.8	3.4	3.6	26	91	139	35	13	8.8
20	4.5	4.3	3.5	4.0	3.4	3.7	26	89	139	34	13	8.8
21	4.6	4.2	3.6	4.1	3.1	3.6	26	84	142	34	13	8.8
22	4.8	4.1	3.6	4.2	3.3	3.7	28	82	139	33	13	8.7
23	4.7	4.5	3.5	4.5	3.4	5.9	28	75	136	31	12	8.5
24	5.4	6.5	3.6	4.4	3.4	6.6	31	76	132	30	12	8.3
25	4.5	6.5	3.6	4.3	3.3	5.8	33	84	128	29	12	8.3
26	4.8	5.5	3.6	4.3	3.0	6.5	32	92	126	28	12	8.4
27	4.3	5.0	3.6	4.1	3.0	7.5	30	99	122	27	11	8.4
28	4.4	4.9	3.6	4.1	3.0	6.6	29	110	117	26	12	8.4
29	4.4	4.7	3.6	4.0	-----	6.8	30	119	105	25	14	8.4
30	4.5	5.0	3.6	4.0	-----	8.1	34	127	97	24	12	9.5
31	4.4	-----	3.6	4.1	-----	8.6	-----	126	-----	22	11	-----
TOTAL	154.4	139.6	117.6	116.3	99.0	135.1	684.8	2,720	3,918	1,458	467	281.3
MEAN	4.98	4.65	3.79	3.75	3.54	4.36	22.8	87.7	131	47.0	15.1	9.38
MAX	6.5	6.5	4.8	4.5	4.1	8.6	34	127	148	93	21	13
MIN	4.3	4.1	3.2	3.2	3.0	2.8	7.6	42	97	22	11	8.3
AC-FT	306	277	233	231	196	268	1,360	5,400	7,770	2,890	926	558

CAL YR 1970 TOTAL 5,569.8 MEAN 15.3 MAX 107 MIN 1.6 AC-FT 11,050
WTR YR 1971 TOTAL 10,291.1 MEAN 28.2 MAX 148 MIN 2.8 AC-FT 20,410

BEAR RIVER BASIN

10075000 Bear River at Soda Springs, Idaho

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 upstream from Bailey Creek road bridge and 2 miles south of Soda Springs.

DRAINAGE AREA.--3,970 sq mi, approximately.

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).

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (from topographic map). May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

AVERAGE DISCHARGE.--18 years, 563 cfs (407,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,370 cfs June 14 (gage height, 6.60 ft); minimum daily, 119 cfs Oct. 5.

Period of record: Maximum discharge, 6,380 cfs June 9, 15, 1896 (gage height, 8.40 ft, datum then in use); minimum daily, 60 cfs Dec. 6, 1960.

REMARKS.--Records good except those for winter period, which are fair. Many diversions for irrigation above station. Flow regulated by storage in Bear Lake.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	168	600	855	1,000	908	1,170	866	2,340	2,900	1,540	1,260
2	132	165	590	850	995	831	1,150	852	2,340	2,850	1,530	1,250
3	128	163	605	835	965	1,030	992	866	2,400	2,790	1,540	1,280
4	123	163	600	845	925	964	845	908	2,430	2,750	1,560	1,310
5	119	188	625	865	895	1,010	852	1,020	2,390	2,660	1,570	1,320
6	128	188	620	890	875	1,050	957	1,160	2,470	2,550	1,610	1,320
7	142	203	645	900	865	1,080	1,140	1,170	2,570	2,420	1,620	1,330
8	152	212	635	915	880	999	1,280	1,120	2,650	2,280	1,630	1,330
9	157	212	630	905	905	1,110	1,420	1,090	2,690	2,140	1,660	1,280
10	185	228	625	885	910	936	1,470	1,090	2,850	1,960	1,650	1,240
11	188	222	560	875	922	985	1,400	1,090	2,950	1,740	1,650	1,200
12	188	218	520	855	930	985	1,240	1,090	3,060	1,560	1,650	1,170
13	179	209	495	855	1,040	1,040	1,090	1,120	3,120	1,470	1,620	1,150
14	171	203	495	865	1,070	1,090	1,040	1,190	3,240	1,420	1,610	1,140
15	168	194	500	870	1,000	1,050	985	1,240	3,320	1,380	1,610	1,140
16	163	179	565	880	1,060	1,080	943	1,320	3,320	1,440	1,570	1,160
17	163	185	600	910	1,120	1,070	943	1,400	3,310	1,530	1,550	1,170
18	163	206	615	915	922	1,250	950	1,440	3,310	1,600	1,540	1,190
19	171	212	620	920	929	1,290	957	1,440	3,320	1,690	1,490	1,200
20	171	197	655	945	1,010	1,230	922	1,500	3,310	1,710	1,480	1,190
21	174	197	635	950	1,020	1,180	908	1,630	3,310	1,700	1,480	906
22	182	188	625	950	1,040	1,060	922	1,770	3,320	1,660	1,490	439
23	185	191	665	955	978	1,050	922	1,870	3,330	1,620	1,510	336
24	203	300	700	955	817	1,120	901	1,890	3,290	1,560	1,510	538
25	197	465	720	950	894	1,080	936	1,850	3,290	1,530	1,520	929
26	194	550	775	950	817	1,070	1,040	1,830	3,210	1,500	1,510	943
27	177	620	835	955	943	1,110	1,100	1,890	3,130	1,480	1,440	950
28	165	625	850	965	964	1,120	1,040	2,120	3,150	1,460	1,360	1,090
29	182	620	865	970	-----	1,160	957	2,280	3,090	1,480	1,360	1,370
30	182	585	890	975	-----	1,240	901	2,310	3,010	1,500	1,310	1,460
31	171	-----	880	990	-----	1,240	-----	2,280	-----	1,480	1,320	-----
TOTAL	5,133	8,256	20,240	28,200	26,691	33,418	31,373	44,692	89,520	57,810	47,490	33,591
MEAN	166	275	653	910	953	1,078	1,046	1,442	2,984	1,865	1,532	1,120
MAX	203	625	890	990	1,120	1,290	1,470	2,310	3,330	2,900	1,660	1,460
MIN	119	163	495	835	817	831	845	852	2,340	1,380	1,310	336
AC-FT	10,180	16,380	40,150	55,930	52,940	66,280	62,230	88,650	177,600	114,700	94,200	66,630
CAL YR 1970	TOTAL	167,659	MEAN	459	MAX	1,160	MIN	119	AC-FT	332,600		
WTR YR 1971	TOTAL	426,414	MEAN	1,168	MAX	3,330	MIN	119	AC-FT	845,800		

BEAR RIVER BASIN

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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 southeast of Lau ranchhouse, 150 ft downstream from Schmidt ditch, and 5 miles north of Soda Springs.

DRAINAGE AREA.--49 sq mi, approximately.

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 (from topographic map). April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft upstream at different datum.

AVERAGE DISCHARGE.--7 years (1964-71), 14.0 cfs (10,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 79 cfs Apr. 7 (gage height, 1.93 ft); maximum gage height, 2.44 ft Dec. 23 (backwater from ice); minimum discharge, 0.10 cfs Nov. 4.
Period of record: Maximum discharge, 98 cfs Apr. 2, 1965 (gage height, 4.01 ft, site and datum then in use); no flow Dec. 24, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Records herein include flow of Schmidt ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	11	10	8.9	7.0	19	28	36	32	26	24
2	12	11	11	9.0	9.2	7.0	18	28	36	32	26	24
3	12	11	11	9.0	8.9	7.0	22	28	35	32	26	26
4	11	9.4	11	9.0	7.9	7.0	31	28	34	32	26	26
5	11	11	11	9.0	8.0	7.0	44	30	34	32	25	27
6	11	11	10	9.0	8.0	6.5	64	30	35	32	26	26
7	12	11	9.2	9.4	8.0	7.1	75	30	35	30	28	27
8	12	11	11	9.2	8.0	6.9	71	29	35	30	33	28
9	12	11	11	9.0	8.0	6.7	65	30	36	30	31	27
10	13	11	11	8.1	8.1	6.7	54	30	36	30	29	28
11	13	11	11	6.0	8.4	6.7	38	30	39	29	26	28
12	12	11	11	6.3	7.6	7.1	27	29	39	29	26	28
13	12	11	11	8.1	7.6	8.1	24	30	36	29	26	26
14	12	11	10	8.7	7.6	7.4	23	30	36	28	25	26
15	12	10	10	7.6	7.9	7.4	23	30	33	28	24	26
16	12	10	9.2	8.0	7.9	7.4	23	30	33	28	24	26
17	11	10	10	8.0	7.9	5.2	26	30	33	28	24	26
18	11	11	9.7	8.1	7.9	7.0	28	31	33	28	24	26
19	11	11	8.9	8.1	7.9	7.0	28	31	32	27	23	26
20	11	11	9.5	7.1	7.1	7.0	28	31	32	27	23	26
21	11	11	9.7	7.9	7.0	7.0	28	31	32	32	23	27
22	12	10	9.5	8.0	7.0	8.0	30	31	31	30	22	26
23	12	10	9.5	8.7	7.0	9.0	32	31	31	28	22	26
24	13	11	10	7.9	6.0	11	30	31	31	28	21	26
25	13	13	9.2	7.6	1.9	12	30	31	31	28	21	26
26	12	13	9.0	7.4	3.2	14	33	32	31	28	21	27
27	11	12	9.0	7.4	7.0	14	37	32	32	27	21	27
28	11	11	8.9	7.1	7.0	14	34	32	34	27	21	27
29	11	11	7.9	7.4	-----	16	31	33	34	26	24	27
30	11	12	9.0	7.6	-----	22	29	34	33	26	26	30
31	11	-----	8.9	8.1	-----	23	-----	35	-----	26	25	-----
TOTAL	363	329.4	308.1	251.8	206.9	289.2	1,045	946	1,018	899	768	796
MEAN	11.7	11.0	9.94	8.12	7.39	9.33	34.8	30.5	33.9	29.0	24.8	26.5
MAX	13	13	11	10	9.2	23	75	35	39	32	33	30
MIN	11	9.4	7.9	6.0	1.9	5.2	18	28	31	26	21	24
AC-FT	720	653	611	499	410	574	2,070	1,880	2,020	1,780	1,520	1,580

CAL YR 1970 TOTAL 4,895.3 MEAN 13.4 MAX 56 MIN 6.5 AC-FT 9,710
WTR YR 1971 TOTAL 7,220.4 MEAN 19.8 MAX 75 MIN 1.9 AC-FT 14,320

BEAR RIVER BASIN

10079500 Bear River at Alexander, Idaho

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 downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mile southeast of Alexander and 5 miles downstream from Soda Creek.

DRAINAGE AREA.--4,050 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft (from topographic map).

AVERAGE DISCHARGE.--60 years, 752 cfs (544,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,580 cfs June 21 (gage height, 4.64 ft); minimum, 30 cfs Nov. 24.

Period of record: Maximum discharge observed, 4,740 cfs Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum discharge, 28 cfs at times when reservoir gates were closed.

REMARKS.--Records good. Flow regulated by Bear Lake Reservoir and Soda hydroelectric plant.

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	173	132	705	956	1,020	1,050	1,200	1,150	2,570	3,200	1,690	1,520
2	142	146	733	956	1,020	1,060	1,200	1,140	2,750	2,910	1,650	1,530
3	149	366	665	956	1,040	1,060	1,210	1,150	2,400	2,430	1,670	1,520
4	199	405	763	956	1,020	1,070	1,200	1,160	2,320	2,530	1,640	1,490
5	246	480	747	964	1,020	1,060	1,200	1,170	2,580	2,830	1,660	1,490
6	346	474	717	964	1,040	1,060	1,150	1,160	2,700	2,660	1,650	1,470
7	344	506	748	964	980	1,080	1,100	1,150	2,700	2,540	1,680	1,440
8	384	122	761	964	972	1,070	1,190	1,160	2,700	2,500	1,670	1,420
9	358	132	746	964	1,040	1,070	1,180	1,170	2,720	2,220	1,660	1,400
10	142	72	772	972	1,040	1,060	1,190	1,160	2,920	2,230	1,670	1,400
11	126	129	773	988	1,020	1,140	1,190	1,170	3,230	1,960	1,670	1,380
12	321	122	745	980	1,030	1,200	1,240	1,170	3,140	1,690	1,660	1,390
13	406	538	495	988	1,050	1,220	1,220	1,180	3,080	1,740	1,650	1,380
14	503	726	603	980	1,030	1,210	1,180	1,160	3,230	1,750	1,620	1,390
15	468	66	589	980	1,040	1,220	1,160	1,170	3,440	1,770	1,620	1,380
16	454	115	581	947	1,040	1,230	1,160	1,180	3,380	1,710	1,620	1,380
17	396	119	614	884	1,040	1,220	1,170	1,190	3,270	1,780	1,630	1,380
18	64	110	699	980	1,040	1,210	1,180	1,160	3,320	1,780	1,620	1,380
19	62	73	709	1,020	1,040	1,210	1,150	1,270	3,450	1,750	1,620	1,370
20	51	119	865	1,040	1,050	1,210	1,150	1,460	3,530	1,710	1,600	1,380
21	67	158	914	1,050	1,050	1,220	1,150	1,670	3,530	1,670	1,610	1,380
22	69	205	771	1,040	1,060	1,220	1,150	1,890	3,440	1,680	1,610	1,380
23	77	447	743	1,040	1,050	1,200	1,140	1,980	3,310	1,680	1,600	1,380
24	53	486	696	1,040	1,040	1,200	1,150	2,060	3,220	1,700	1,590	1,410
25	76	553	720	1,030	1,050	1,200	1,150	2,120	3,210	1,690	1,520	1,400
26	68	712	947	1,040	1,060	1,230	1,150	2,310	3,210	1,710	1,580	1,410
27	60	705	947	1,030	1,060	1,200	1,140	2,450	3,210	1,690	1,580	1,400
28	84	698	947	1,040	1,050	1,210	1,140	2,480	3,210	1,680	1,580	1,380
29	118	705	956	1,030	-----	1,210	1,150	2,380	3,210	1,650	1,550	1,380
30	268	705	956	1,040	-----	1,200	1,150	2,280	3,200	1,610	1,550	1,350
31	159	-----	956	1,020	-----	1,200	-----	2,260	-----	1,690	1,520	-----
TOTAL	6,433	10,326	23,583	30,803	28,992	36,000	35,090	47,560	92,180	62,140	50,240	42,360
MEAN	208	344	761	994	1,035	1,161	1,170	1,534	3,073	2,005	1,621	1,412
MAX	503	726	956	1,050	1,060	1,230	1,240	2,480	3,530	3,200	1,690	1,530
MIN	51	66	495	884	972	1,050	1,100	1,140	2,320	1,610	1,520	1,350
AC-FT	12,760	20,480	46,780	61,100	57,510	71,410	69,600	94,340	182,800	123,300	99,650	84,020
CAL YR 1970	TOTAL 191,513		MEAN 525	MAX 1,160	MIN 51	AC-FT 379,900						
WTR YR 1971	TOTAL 465,707		MEAN 1,276	MAX 3,530	MIN 51	AC-FT 923,700						

BEAR RIVER BASIN

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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 upstream from Cleveland irrigation canal, 2.5 miles west of Cleveland, and 4 miles downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 sq mi.

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft (from topographic map). Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years (1939-71), 30.0 cfs (21,740 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 446 cfs Apr. 10 (gage height, 3.59 ft); minimum, 2.0 cfs Oct. 28. Period of record: Maximum discharge, 773 cfs Apr. 27, 1952 (gage height, 3.83 ft); minimum, 0.1 cfs Aug. 11, 1961.

REMARKS.--Records good. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 miles above station in SE¼ 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 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	3.6	17	14	20	17	75	274	147	28	14	7.1
2	6.0	3.4	18	15	20	17	73	335	128	27	13	7.1
3	6.0	6.3	14	14	18	17	75	365	123	26	12	9.5
4	4.9	4.9	16	13	15	17	90	328	117	24	19	7.7
5	3.6	7.4	15	13	16	16	115	267	113	22	19	7.4
6	3.2	9.9	12	12	16	16	163	261	112	22	16	8.0
7	3.4	11	12	12	16	16	227	261	103	21	16	9.5
8	3.4	11	15	12	17	16	236	317	100	19	17	8.7
9	4.9	9.9	15	12	17	15	303	303	100	18	17	8.3
10	12	10	14	12	17	16	354	280	100	17	15	9.5
11	6.3	9.9	12	12	17	16	286	286	117	15	16	11
12	5.2	9.6	6.6	13	17	21	242	303	100	14	16	9.5
13	5.4	9.5	4.9	13	18	28	245	324	94	15	16	7.4
14	5.2	7.7	5.0	13	19	25	293	306	88	15	15	6.8
15	4.9	7.4	5.4	13	20	24	320	277	82	14	15	7.7
16	4.7	11	6.0	13	20	22	306	248	79	14	14	9.5
17	4.7	11	6.8	13	20	21	300	205	75	14	11	7.4
18	4.7	11	7.1	15	20	20	245	173	72	13	12	7.7
19	4.7	10	7.7	17	20	23	205	158	62	14	8.0	12
20	4.3	9.9	7.5	22	19	24	182	153	53	14	7.7	12
21	4.3	12	7.4	24	17	21	202	152	49	14	7.7	12
22	4.7	7.1	7.1	23	17	22	205	163	45	17	7.7	12
23	5.4	12	7.9	22	17	34	190	147	40	17	7.7	12
24	6.0	15	8.7	24	17	54	195	152	37	15	8.0	12
25	4.9	25	9.5	24	16	53	230	158	34	14	8.7	12
26	4.7	22	9.5	21	15	61	213	166	33	14	9.1	12
27	3.6	18	9.5	21	16	76	211	166	38	13	6.8	12
28	3.4	16	11	15	18	64	202	158	38	12	7.7	14
29	3.6	13	12	18	-----	71	190	163	32	12	15	14
30	3.8	26	12	18	-----	90	227	152	29	13	16	16
31	3.8	-----	13	19	-----	94	-----	153	-----	14	14	-----
TOTAL	151.7	340.8	324.6	506	495	1,027	6,400	7,154	2,340	521	397.1	301.8
MEAN	4.89	11.4	10.5	16.3	17.7	33.1	213	231	78.0	16.8	12.8	10.1
MAX	12	26	18	24	20	94	354	365	147	28	19	16
MIN	3.2	3.4	4.9	12	15	15	73	147	29	12	6.8	6.8
AC-FT	301	676	644	1,000	982	2,040	12,690	14,190	4,640	1,030	788	599
CAL YR 1970	TOTAL	9,059.3	MEAN	24.9	MAX	230	MIN	2.7	AC-FT	18,050		
WTR YR 1971	TOTAL	19,959.0	MEAN	54.7	MAX	365	MIN	3.2	AC-FT	39,590		

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-10	1300	3.59	446	5- 3	0800	3.54	425
4-15	1900	3.49	404	5-13	0200	3.37	358

BEAR RIVER BASIN

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 downstream from tailrace of Oneida plant and 6 miles south of Cleveland.

DRAINAGE AREA.--4,400 sq mi, approximately.

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 (from topographic map).

AVERAGE DISCHARGE.--50 years, 795 cfs (576,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,340 cfs May 27; minimum daily, 16 cfs Nov. 10, 11.

Period of record: Maximum daily discharge, 5,480 cfs May 8, 1922; minimum daily, 10 cfs 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 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	243	814	917	1,220	1,200	1,510	1,850	2,720	3,090	1,430	1,990
2	379	813	1,020	935	1,200	1,120	1,510	1,930	3,000	3,010	1,380	1,510
3	255	1,000	938	798	1,150	1,180	1,340	2,010	3,130	2,740	1,560	1,500
4	274	1,070	894	730	1,300	1,170	1,620	1,840	2,740	2,680	1,550	1,510
5	448	927	793	1,150	1,100	1,220	1,450	2,150	2,710	1,880	1,340	1,680
6	739	488	1,150	1,100	1,320	1,150	1,770	1,950	2,800	2,240	1,280	1,460
7	777	1,010	872	1,060	989	1,190	1,620	2,030	2,980	2,480	1,330	1,550
8	471	978	1,020	1,070	1,190	1,120	1,680	1,840	2,870	2,490	1,560	1,460
9	545	99	994	942	945	1,150	1,700	1,960	2,980	2,170	1,510	1,510
10	428	16	907	1,220	1,130	1,540	1,880	1,950	3,020	2,190	1,740	1,570
11	458	16	1,040	1,320	1,220	910	1,900	1,960	3,230	1,240	1,160	1,570
12	301	17	942	1,100	1,410	1,320	1,710	1,930	3,190	1,700	1,600	1,570
13	710	314	869	1,190	1,090	1,760	1,620	2,090	3,310	1,340	1,530	1,420
14	621	1,300	664	1,090	1,190	1,260	1,860	1,940	3,150	1,800	1,290	1,640
15	415	1,420	835	1,070	1,380	1,440	1,790	1,950	3,270	1,590	1,400	1,370
16	711	163	912	1,190	1,220	1,500	1,870	1,940	3,320	1,610	1,530	1,640
17	672	17	792	1,220	1,210	1,240	1,680	1,830	3,310	1,370	1,330	1,510
18	482	17	731	1,150	1,340	1,410	1,880	1,830	3,310	969	1,550	1,450
19	306	17	1,040	1,200	1,210	1,370	1,700	1,820	3,300	1,910	1,500	1,560
20	157	68	896	1,330	1,110	1,360	1,640	1,860	3,300	1,000	1,430	1,510
21	308	73	1,050	1,190	1,230	1,370	1,760	2,160	3,300	1,940	1,580	1,540
22	324	42	1,010	1,520	1,180	1,360	1,750	2,150	3,300	1,620	1,360	1,750
23	357	359	957	1,100	1,230	1,360	1,760	2,680	3,270	1,270	1,490	1,770
24	245	264	983	1,280	1,240	1,650	1,760	2,710	3,240	1,120	1,390	1,720
25	144	742	833	1,030	1,180	1,630	1,760	2,700	3,060	1,480	1,530	1,490
26	579	677	1,020	1,180	1,160	1,640	1,990	2,550	3,010	1,700	1,210	1,300
27	116	825	969	1,200	1,170	1,650	2,220	2,920	2,990	1,290	1,660	1,910
28	365	998	1,260	1,150	1,080	1,620	1,760	2,960	3,040	1,330	1,520	1,470
29	159	853	1,160	1,180	-----	1,470	1,660	2,970	3,050	1,620	1,510	1,600
30	130	892	1,170	1,230	-----	1,580	1,740	2,840	3,070	1,580	1,540	1,680
31	473	-----	1,270	1,250	-----	1,560	-----	2,720	-----	1,050	1,430	-----
TOTAL	12,700	15,718	29,805	35,092	33,394	42,500	51,890	68,020	92,970	55,499	45,220	47,210
MEAN	410	524	961	1,132	1,193	1,371	1,730	2,194	3,099	1,790	1,459	1,574
MAX	777	1,420	1,270	1,520	1,410	1,760	2,220	2,970	3,320	3,090	1,740	1,990
MIN	116	16	664	730	945	910	1,340	1,820	2,710	969	1,160	1,300
AC-FT	25,190	31,180	59,120	69,600	66,240	84,300	102,900	134,900	184,400	110,100	89,690	93,640
CAL YR 1970	TOTAL	229,427	MEAN	629	MAX	1,420	MIN	16	AC-FT	455,100		
WTR YR 1971	TOTAL	530,018	MEAN	1,452	MAX	3,320	MIN	16	AC-FT	1,051,000		

BEAR RIVER BASIN

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10090500 Bear River near Preston, Idaho

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 downstream from headgates of West Cache Canal, 5 miles downstream from Mink Creek, 5 miles north of Preston, and 5.5 miles upstream from Battle Creek.

DRAINAGE AREA.--4,500 sq mi, approximately.

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.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft above mean sea level, unadjusted. October 1889 to September 1917 nonrecording gages at several sites within 5 miles downstream at different datums.

AVERAGE DISCHARGE.--28 years (1943-71), 811 cfs (587,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,960 cfs June 11 (gage height, 5.27 ft); minimum, 17 cfs Nov. 20 (gage height, 0.60 ft); minimum daily, 19 cfs Nov. 19.
1889-1917: Maximum discharge, about 8,500 cfs June 9, 10, 1907, estimated on basis of records for station near Collinston, Utah; maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use; minimum discharge not determined.
1943-71: Maximum discharge, 4,420 cfs Apr. 17, 1950 (gage height, 5.61 ft); minimum, 0.6 cfs June 14, 1949; minimum daily, 2.0 cfs May 11, 1968.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE¼ sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 250: 1905-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	275	838	1,180	1,360	1,300	1,790	2,120	3,070	3,310	1,420	1,530
2	376	723	1,110	921	1,420	1,130	1,570	2,200	3,280	3,210	1,290	1,410
3	351	958	867	870	1,210	1,340	1,610	2,380	3,370	2,950	1,440	1,330
4	352	1,060	819	859	1,470	1,360	1,680	2,180	3,000	2,770	1,310	1,400
5	531	971	668	1,100	1,210	1,270	1,550	2,530	2,980	1,980	1,170	1,530
6	744	524	1,210	1,470	1,470	1,180	1,980	2,330	3,070	2,270	1,160	1,440
7	761	824	868	1,410	1,080	1,340	1,790	2,330	3,310	2,510	1,190	1,350
8	464	1,000	907	1,080	1,250	1,110	1,880	2,230	3,370	2,500	1,440	1,420
9	594	413	885	909	1,140	1,470	1,930	2,370	3,420	2,280	1,570	1,430
10	576	32	974	1,280	1,300	1,630	2,080	2,370	3,550	2,390	1,290	1,480
11	466	24	974	1,330	1,310	921	2,170	2,300	3,880	1,290	1,060	1,420
12	373	24	886	1,240	1,420	1,390	1,920	2,290	3,930	1,690	1,370	1,480
13	750	151	815	1,330	1,190	1,930	1,850	2,560	3,910	1,370	1,290	1,250
14	548	1,170	738	1,180	1,270	1,350	2,040	2,420	3,820	1,760	1,090	1,490
15	434	1,520	733	1,230	1,470	1,520	2,050	2,410	3,850	1,490	1,370	1,270
16	702	336	841	1,240	1,290	1,560	2,070	2,410	3,900	1,550	1,350	1,530
17	671	28	764	1,350	1,390	1,350	1,970	2,350	3,880	1,330	1,020	1,440
18	564	21	653	1,250	1,300	1,310	2,170	2,360	3,840	887	1,320	1,340
19	248	19	901	1,360	1,300	1,590	1,890	2,120	3,820	1,740	1,470	1,410
20	231	38	866	1,570	1,200	1,430	1,960	2,040	3,790	992	1,150	1,370
21	324	96	970	1,190	1,330	1,490	2,100	2,400	3,760	1,800	1,420	1,340
22	319	51	1,130	1,560	1,210	1,330	2,040	2,380	3,730	1,420	1,210	1,590
23	409	302	932	1,230	1,320	1,520	2,020	2,870	3,720	1,260	1,220	1,230
24	257	200	983	1,400	1,340	1,980	2,030	2,910	3,690	1,010	1,290	1,570
25	152	602	845	1,230	1,340	1,930	1,930	2,870	3,520	1,330	1,410	1,450
26	598	598	1,020	987	1,320	1,730	2,360	2,700	3,400	1,630	1,040	1,180
27	144	869	902	1,480	1,310	2,130	2,620	3,180	3,340	1,270	1,450	1,690
28	360	1,000	1,360	1,340	1,140	1,840	2,110	3,270	3,370	1,220	1,280	1,450
29	191	902	1,190	1,330	-----	1,710	1,940	3,270	3,370	1,450	1,420	1,410
30	135	916	1,200	1,330	-----	1,540	2,050	3,160	3,330	1,420	1,390	1,630
31	399	-----	1,220	1,310	-----	1,700	-----	3,080	-----	1,130	984	-----
TOTAL	13,376	15,647	29,069	38,546	36,360	46,381	59,150	78,390	106,270	55,209	39,884	42,860
MEAN	431	522	938	1,243	1,299	1,496	1,972	2,529	3,542	1,781	1,287	1,429
MAX	761	1,520	1,360	1,570	1,470	2,130	2,620	3,270	3,930	3,310	1,570	1,690
MIN	135	19	653	859	1,080	921	1,550	2,040	2,980	887	984	1,180
AC-FT	26,530	31,040	57,660	76,460	72,120	92,000	117,300	155,500	210,800	109,500	79,110	85,010
CAL YR 1970	TOTAL	213,939	MEAN	586	MAX	1,520	MIN	19	AC-FT	424,300		
WTR YR 1971	TOTAL	561,142	MEAN	1,537	MAX	3,930	MIN	19	AC-FT	1,113,000		

BEAR RIVER BASIN

10091200 Deep Creek near Clifton, Idaho

LOCATION.--Lat 42°12'00", long 111°59'05", in SE¼SW¼ sec.14, T.14 S., R.38 E., Franklin County, on right bank 40 ft above county road culvert, and 1.3 miles northeast of Clifton.

DRAINAGE AREA.--119 sq mi, approximately.

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

GAGE.--Water-stage recorder and road culvert for medium and high stages. Altitude of gage is 4,705 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 10.3 cfs (7,460 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 83 cfs Apr. 27 (gage height, 4.77 ft); minimum, 0.63 cfs Oct. 15. Period of record: Maximum discharge, 152 cfs Mar. 31, 1969 (gage height, 6.80 ft, from high water mark on outside of well); minimum, 0.57 cfs Nov. 26, 27, 1966, Sept. 29, 1970.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.2	4.7	3.6	27	23	48	65	36	9.2	3.3	5.5
2	1.3	1.2	4.2	3.6	21	21	45	62	28	9.0	4.1	5.9
3	.68	1.3	3.8	2.5	25	22	44	59	26	8.8	3.3	4.5
4	.68	1.4	3.4	2.2	33	24	42	57	25	8.5	3.0	3.0
5	.63	1.3	3.1	1.4	27	24	40	56	29	8.2	3.0	2.6
6	.63	1.3	3.4	1.0	23	25	39	58	25	8.0	2.4	2.4
7	.63	1.6	3.7	1.0	20	24	38	54	24	7.8	2.5	2.6
8	.63	1.5	4.0	1.0	18	22	38	56	23	7.6	3.9	2.5
9	.68	1.5	4.5	1.0	16	27	36	53	22	7.3	3.3	2.5
10	.76	1.5	5.2	1.0	15	31	37	54	21	6.8	2.5	2.4
11	.68	1.6	5.5	1.6	19	36	37	51	26	6.6	3.3	2.4
12	.72	1.7	4.7	2.5	25	42	36	50	22	6.2	2.8	2.3
13	.72	1.7	4.1	2.2	39	66	34	48	20	5.6	1.7	2.4
14	.68	1.7	3.6	1.8	42	52	33	46	19	5.3	2.7	2.3
15	.68	1.8	3.7	2.1	58	45	33	44	18	4.8	3.2	2.1
16	.68	1.7	3.9	2.7	51	43	32	42	17	4.7	3.0	2.1
17	.72	1.6	3.9	3.2	51	45	38	41	16	5.2	2.0	2.2
18	.76	1.7	4.0	4.0	50	42	42	40	15	4.7	1.7	2.3
19	.81	1.7	2.3	3.5	46	40	43	38	14	4.9	1.6	2.4
20	.81	1.7	2.2	2.9	45	41	42	36	13	4.5	2.0	2.4
21	.86	1.7	2.0	3.5	41	41	44	35	13	4.5	2.4	2.4
22	.94	1.7	2.0	4.4	41	40	45	34	12	4.9	2.0	2.5
23	1.0	1.7	1.7	5.6	37	45	42	33	12	5.0	1.7	2.5
24	1.3	2.1	2.1	7.0	35	58	43	32	12	5.0	1.7	2.6
25	1.2	2.7	2.2	8.2	34	51	51	30	11	4.5	1.7	2.5
26	1.1	3.2	1.7	11	32	54	78	28	11	5.5	2.1	3.2
27	1.1	2.6	1.2	15	29	74	79	28	10	4.3	2.3	5.3
28	1.2	2.4	1.0	19	26	60	73	27	13	3.1	1.8	6.2
29	1.2	2.4	2.0	20	-----	54	72	28	11	3.1	4.4	3.4
30	1.3	4.8	2.1	18	-----	51	68	28	10	3.7	4.4	3.6
31	1.2	-----	2.2	19	-----	51	-----	31	-----	3.2	5.5	-----
TOTAL	28.68	56.0	98.1	175.5	926	1,274	1,372	1,344	554	180.5	85.3	91.0
MEAN	.93	1.87	3.16	5.66	33.1	41.1	45.7	43.4	18.5	5.82	2.75	3.03
MAX	2.4	4.8	5.5	20	58	74	79	65	36	9.2	5.5	6.2
MIN	.63	1.2	1.0	1.0	15	21	32	27	10	3.1	1.6	2.1
AC-FT	57	111	195	348	1,840	2,530	2,720	2,670	1,100	358	169	181

CAL YR 1970 TOTAL 2,166.03 MEAN 5.93 MAX 32 MIN .60 AC-FT 4,300
 WTR YR 1971 TOTAL 6,185.08 MEAN 16.9 MAX 79 MIN .63 AC-FT 12,270

NOTE.--No gage-height record May 26 to July 11.

BEAR RIVER BASIN

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10092700 Bear River at Idaho-Utah State line

LOCATION.--Lat 42°00'48", long 111°55'09", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, on left bank 1,050 feet downstream from inlet canal to Cub River pumps, 1.1 mile downstream from Weston Creek, 1.8 miles upstream from State line, and 3.5 miles southeast of Weston.

DRAINAGE AREA.--4,840 sq mi, approximately.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 4,190 cfs June 12 (gage height, 8.25 ft); minimum daily, 73 cfs Nov. 20.

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas. Records of chemical analysis for the water year 1971 are published in part 2 of this report and for the water year 1970 in part 2 of the report for that year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	600	1,260	1,590	1,690	1,640	2,170	2,530	3,300	3,580	1,310	1,600
2	500	1,000	1,330	1,350	1,800	1,590	2,550	2,560	3,310	3,460	1,250	1,570
3	500	1,200	1,310	1,200	1,650	1,390	2,060	2,700	3,480	3,250	1,430	1,730
4	500	1,280	1,080	1,200	1,600	1,600	2,090	2,650	3,370	2,940	1,340	1,650
5	800	1,100	1,240	1,500	1,730	1,620	1,920	2,780	3,220	2,610	1,370	1,610
6	980	900	1,300	1,800	1,520	1,440	2,090	2,690	3,230	2,260	1,230	1,630
7	1,000	1,050	1,300	1,700	1,580	1,550	2,270	2,690	3,500	2,590	1,200	1,760
8	650	1,200	1,150	1,550	1,620	1,710	2,190	2,660	3,600	2,640	1,450	1,590
9	700	450	1,210	1,400	1,500	1,550	2,220	2,660	3,650	2,490	1,640	1,620
10	700	168	1,300	1,600	1,590	1,690	2,350	2,730	4,000	2,530	984	1,750
11	640	95	1,420	1,600	1,670	1,580	2,490	2,660	3,890	2,060	1,400	1,530
12	500	88	1,300	1,600	1,630	1,650	2,280	2,600	4,170	1,880	1,140	1,700
13	880	81	1,110	1,600	1,610	2,380	2,250	2,830	4,160	1,610	1,350	1,610
14	800	694	1,020	1,600	1,630	1,780	2,280	2,760	4,120	1,440	1,420	1,580
15	700	1,860	992	1,600	1,690	1,900	2,380	2,740	4,000	1,570	1,100	1,550
16	800	1,250	1,120	1,600	1,810	1,820	2,390	2,720	4,060	1,600	1,350	1,670
17	780	153	1,030	1,600	1,700	1,860	2,380	2,680	4,070	1,580	1,200	1,790
18	720	91	1,060	1,600	1,740	1,650	2,480	2,680	3,990	1,210	1,250	1,490
19	600	79	1,050	1,850	1,730	1,830	2,380	2,540	3,950	1,260	1,330	1,550
20	400	73	1,470	1,980	1,650	1,810	2,430	2,460	3,930	1,570	1,060	1,640
21	450	118	1,350	1,680	1,510	1,840	2,310	2,790	3,930	1,270	1,410	1,640
22	500	128	1,400	1,820	1,680	1,770	2,420	2,700	3,910	1,570	1,320	1,770
23	600	98	1,300	1,830	1,660	1,890	2,430	3,100	3,870	1,360	1,280	1,590
24	500	425	1,300	1,620	1,590	2,180	2,440	3,210	3,820	1,290	1,430	1,610
25	400	366	1,250	1,720	1,660	2,260	2,360	3,180	3,870	1,420	1,310	1,650
26	750	928	1,300	1,610	1,660	2,270	2,750	2,950	3,650	1,360	1,290	1,460
27	450	890	1,300	1,670	1,580	2,520	3,230	3,190	3,620	1,610	1,310	1,740
28	640	1,150	1,600	1,680	1,630	2,160	2,670	3,410	3,650	1,160	1,280	1,730
29	540	1,160	1,500	1,680	-----	2,290	2,520	3,410	3,650	1,380	1,570	1,640
30	450	1,240	1,500	1,630	-----	2,140	2,420	3,400	3,610	1,430	1,760	1,790
31	660	-----	1,550	1,600	-----	2,220	-----	3,320	-----	1,230	1,650	-----
TOTAL	19,590	19,915	39,402	50,060	46,110	57,580	71,200	87,980	112,580	59,210	41,414	49,240
MEAN	632	664	1,271	1,615	1,647	1,857	2,373	2,838	3,753	1,910	1,336	1,641
MAX	1,000	1,860	1,600	1,980	1,810	2,520	3,230	3,410	4,170	3,580	1,760	1,790
MIN	400	73	992	1,200	1,500	1,390	1,920	2,460	3,220	1,160	984	1,460
AC-FT	38,860	39,500	78,150	99,290	91,460	114,200	141,200	174,500	223,300	117,400	82,140	97,670

WTR YR 1971 TOTAL 654,281 MEAN 1,793 MAX 4,170 MIN 73 AC-FT 1,298,000

LOCATION.--Lat 42°08'28", Long 111°41'19", in SW¼ sec.5, T.15 S., R.41 E., Franklin County, on right bank 0.2 mile upstream from headgates of Cub River-Worm Creek Canal, 0.7 mile upstream from forest boundary, and 10 miles east of Preston.

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

AVERAGE DISCHARGE.--28 years, 83.6 cfs (60,570 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 803 cfs June 11 (gage height, 3.13 ft); minimum, 15 cfs Jan. 10.
Period of record: Maximum discharge, 803 cfs June 11, 1971 (gage height, 3.13 ft); maximum gage height,
3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	28	34	26	31	26	54	115	480	392	101	53
2	33	28	32	26	31	26	48	141	445	358	98	53
3	32	27	31	26	31	26	46	190	450	342	96	55
4	32	27	31	26	31	26	48	250	485	334	94	53
5	32	27	31	26	31	26	55	232	445	318	92	51
6	31	28	30	26	30	25	66	210	495	303	89	50
7	31	28	29	25	29	25	79	235	558	288	86	51
8	31	28	29	25	28	25	82	274	608	277	85	49
9	32	27	31	25	28	25	90	284	653	266	82	49
10	34	28	31	25	28	25	104	274	712	253	79	48
11	31	28	31	25	28	25	104	303	782	244	78	47
12	31	28	31	25	28	26	103	366	719	232	75	46
13	30	28	30	24	28	34	103	455	660	213	72	46
14	30	27	30	25	30	31	105	521	615	200	71	45
15	29	26	29	24	33	30	106	552	602	193	70	46
16	29	26	29	24	32	29	113	608	634	183	69	46
17	29	26	29	27	32	29	121	552	698	172	68	45
18	29	26	29	34	31	27	118	415	747	166	66	45
19	29	26	28	38	31	27	113	326	705	159	64	45
20	28	26	28	38	30	27	104	280	698	155	63	44
21	28	26	28	36	29	27	100	241	640	149	62	44
22	29	26	28	34	28	27	101	226	640	143	62	43
23	29	26	27	34	28	33	100	210	653	139	62	43
24	30	28	27	32	28	54	101	216	660	133	60	42
25	29	32	27	32	28	51	111	274	660	128	58	42
26	28	34	26	31	27	54	118	379	627	123	57	42
27	28	32	26	31	26	70	116	490	615	118	56	42
28	27	31	26	31	27	59	111	552	571	113	57	41
29	27	30	27	31	-----	57	108	558	500	110	58	41
30	27	36	26	31	-----	66	103	565	445	108	56	42
31	27	-----	26	31	-----	63	-----	521	-----	103	54	-----
TOTAL	925	844	897	894	822	1,101	2,831	10,815	18,202	6,415	2,240	1,389
MEAN	29.8	28.1	28.9	28.9	29.4	35.5	94.4	349	607	207	72.3	46.3
MAX	34	36	34	38	33	70	121	608	782	392	101	55
MIN	27	26	26	24	26	25	46	115	445	103	54	41
AC-FT	1,830	1,670	1,780	1,770	1,630	2,180	5,620	21,450	36,100	12,720	4,440	2,760
CAL YR 1970	TOTAL 31,739		MEAN 87.0	MAX 692	MIN 18	AC-FT 62,950						
WTR YR 1971	TOTAL 47,375		MEAN 130	MAX 782	MIN 24	AC-FT 93,970						

BEAR RIVER BASIN

163

10099000 High Creek near Richmond, Utah

LOCATION.--Lat 41°58'40", long 111°44'40", in SW¼SE¼ sec.5, T.14 N., R.2 E., Cache County, on right bank near forest boundary, 2 miles downstream from North Fork, and 5 miles northeast of Richmond.

DRAINAGE AREA.--16.2 sq mi.

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft (from topographic map).

AVERAGE DISCHARGE.--6 years (1946-52), 33.1 cfs (23,960 acre-ft per year).

EXTREMES.--Maximum discharge during period February to September 1971, 355 cfs May 16 (gage height, 2.80 ft); minimum, 11 cfs Mar. 8-10, 12.

Period of record: Maximum discharge, 355 cfs May 16, 1971 (gage height, 2.80 ft); minimum observed, 2.6 cfs Jan. 5, 1950, result of ice jam upstream.

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

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					17	13	33	74	161	100	34	18
2					19	12	30	98	141	100	33	18
3					19	12	26	117	145	100	32	20
4					18	12	28	132	147	96	30	18
5					17	12	34	122	147	91	30	18
6					16	12	45	117	167	86	29	17
7					15	12	54	122	226	85	29	17
8					14	11	54	118	263	80	28	17
9					14	11	61	118	261	77	27	16
10					14	11	80	120	256	76	26	16
11					14	12	80	137	263	71	25	16
12					14	11	63	169	171	67	25	16
13					14	16	54	265	158	64	24	16
14					15	16	60	301	177	62	23	15
15					19	16	76	312	197	60	23	15
16					19	15	74	325	188	58	23	15
17					19	15	82	271	205	56	22	15
18					18	13	82	157	202	55	22	15
19					18	13	68	108	158	54	21	15
20					17	13	60	99	169	53	21	15
21					16	13	55	93	156	51	21	15
22					15	14	56	91	175	48	20	15
23					15	16	55	85	171	47	20	15
24					14	24	55	86	156	44	20	15
25					14	26	57	101	156	42	20	15
26					14	26	64	135	142	41	19	14
27					13	42	63	209	136	40	19	14
28					13	38	63	239	130	39	19	14
29					-----	34	63	242	116	37	20	14
30					-----	35	64	239	109	36	19	15
31		-----			-----	38	-----	196	-----	34	19	-----
TOTAL					444	564	1,739	4,998	5,249	1,950	743	474
MEAN					15.9	18.2	58.0	161	175	62.9	24.0	15.8
MAX					19	42	82	325	263	100	34	20
MIN					13	11	26	74	109	34	19	14
AC-FT					881	1,120	3,450	9,910	10,410	3,870	1,470	940

THE PERIOD AC-FT 32,060

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 mile upstream from mouth of Summit Creek, and 2.6 miles west of Smithfield.

DRAINAGE AREA.--4,830 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,399.89 ft above mean sea level (Utah State Highway bench mark).

AVERAGE DISCHARGE.--7 years, 1,260 cfs (912,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,850 cfs June 13, 14 (gage height, 14.46 ft); minimum daily, 246 cfs Nov. 21.

Period of record: Maximum discharge, 5,850 cfs June 13, 14, 1971 (gage height, 14.46 ft); minimum daily, 132 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	455	1,370	1,600	1,830	1,720	2,590	3,070	4,540	4,060	1,480	1,890
2	523	557	1,390	1,700	1,880	1,680	2,530	3,010	4,340	3,930	1,440	1,860
3	529	603	1,390	1,600	1,920	1,660	2,430	3,050	4,190	3,770	1,380	1,850
4	524	953	1,400	1,200	1,880	1,610	2,330	3,210	4,250	3,540	1,430	1,920
5	528	1,190	1,300	1,150	1,810	1,640	2,250	3,370	4,320	3,280	1,460	1,920
6	521	1,250	1,260	1,150	1,810	1,660	2,230	3,430	4,140	3,020	1,470	1,880
7	715	1,190	1,300	1,150	1,730	1,610	2,240	3,450	4,060	2,670	1,410	1,900
8	814	955	1,370	1,250	1,710	1,600	2,350	3,380	4,180	2,710	1,380	1,940
9	786	1,240	1,320	1,300	1,660	1,650	2,450	3,400	4,480	2,780	1,470	1,940
10	695	1,120	1,410	1,400	1,640	1,670	2,520	3,380	4,660	2,670	1,610	1,880
11	728	442	1,450	1,500	1,630	1,740	2,580	3,430	4,920	2,590	1,380	1,890
12	540	319	1,440	1,600	1,700	1,830	2,730	3,450	5,290	2,470	1,490	1,850
13	492	308	1,400	1,800	1,750	1,930	2,770	3,430	5,730	2,090	1,310	1,860
14	642	305	1,280	1,900	1,810	2,250	2,690	3,600	5,810	1,850	1,420	1,850
15	692	755	1,170	1,900	1,830	2,400	2,630	3,810	5,690	1,590	1,440	1,790
16	524	1,400	1,090	1,900	1,910	2,240	2,690	3,820	5,500	1,570	1,360	1,790
17	716	1,330	1,180	1,900	2,000	2,130	2,790	3,790	5,500	1,600	1,370	1,780
18	730	496	1,180	1,900	2,050	2,070	2,900	3,740	5,540	1,580	1,400	1,880
19	697	295	1,110	1,900	2,080	1,960	2,950	3,610	5,450	1,380	1,370	1,810
20	568	254	1,130	1,900	2,090	1,910	2,970	3,390	5,340	1,270	1,430	1,780
21	416	246	1,540	2,000	1,980	1,930	2,910	3,220	5,290	1,550	1,370	1,800
22	446	268	1,650	2,000	1,830	1,940	2,800	3,220	5,200	1,390	1,450	1,810
23	567	298	1,550	2,000	1,790	1,950	2,820	3,250	5,090	1,610	1,500	1,850
24	628	323	1,560	2,000	1,790	2,040	2,860	3,290	4,990	1,530	1,430	1,850
25	670	437	1,600	2,000	1,780	2,260	2,890	3,500	4,890	1,420	1,470	1,810
26	475	576	1,500	1,900	1,770	2,470	3,030	3,610	4,810	1,410	1,470	1,830
27	561	951	1,400	1,880	1,750	2,650	3,310	3,640	4,530	1,460	1,480	1,780
28	623	1,010	1,500	1,860	1,730	2,830	3,940	3,770	4,250	1,600	1,440	1,810
29	491	1,150	1,550	1,870	-----	2,890	3,800	4,230	4,190	1,420	1,570	1,930
30	475	1,280	1,550	1,840	-----	2,730	3,300	4,500	4,160	1,430	1,760	1,930
31	329	-----	1,550	1,820	-----	2,640	-----	4,560	-----	1,500	1,880	-----
TOTAL	18,221	21,956	42,890	52,870	51,140	63,290	83,280	109,610	145,330	66,740	45,320	55,660
MEAN	588	732	1,384	1,705	1,826	2,042	2,776	3,536	4,844	2,153	1,462	1,855
MAX	814	1,400	1,650	2,000	2,090	2,890	3,940	4,560	5,810	4,060	1,880	1,940
MIN	329	246	1,090	1,150	1,630	1,600	2,230	3,010	4,060	1,270	1,310	1,780
AC-FT	36,140	43,550	85,070	104,900	101,400	125,500	165,200	217,400	288,300	132,400	89,890	110,400
CAL YR 1970	TOTAL	328,928	MEAN	901	MAX	1,990	MIN	246	AC-FT	652,400		
WTR YR 1971	TOTAL	756,307	MEAN	2,072	MAX	5,810	MIN	246	AC-FT	1,500,000		

BEAR RIVER BASIN

165

10102300 Summit Creek above diversions, near Smithfield, Utah

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 downstream from forest boundary, 3.2 miles upstream from Birch Creek, and 4.5 miles northeast of Smithfield.

DRAINAGE AREA.--11.6 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,371 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--10 years, 19.6 cfs (14,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 194 cfs May 16 (gage height, 2.43 ft); minimum, 2.2 cfs Jan. 12, result of snowslide.

Period of record: Maximum discharge, 302 cfs May 23, 1967 (gage height, 3.05 ft); minimum, 2.1 cfs Feb. 26, 1964.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.0	9.2	7.0	13	10	24	47	82	49	20	12
2	6.5	6.3	9.2	7.0	14	10	22	66	77	51	20	12
3	6.5	6.3	8.9	6.5	13	10	22	93	75	51	19	13
4	6.5	6.3	8.9	5.2	13	10	22	108	75	49	19	13
5	6.5	6.3	8.6	5.5	12	9.9	26	86	75	47	19	12
6	6.8	6.5	8.3	6.8	12	9.5	31	77	93	46	18	12
7	6.8	6.8	8.3	7.0	12	9.5	39	84	111	44	18	12
8	6.8	6.5	8.6	6.8	11	9.5	43	84	118	42	18	12
9	7.0	6.3	9.2	7.0	11	9.5	46	80	131	41	17	12
10	7.3	6.5	8.9	7.0	11	9.5	57	80	131	38	17	11
11	7.0	6.8	8.9	7.0	10	9.5	60	99	137	37	16	11
12	6.5	7.0	8.9	6.5	10	9.9	51	118	106	37	16	11
13	6.5	6.8	8.6	6.8	11	10	48	143	97	35	16	11
14	6.5	6.8	8.3	6.5	12	10	48	149	108	34	15	11
15	6.3	6.8	8.3	6.5	13	10	56	155	123	32	15	11
16	6.3	6.8	8.3	6.5	13	10	54	169	131	31	15	10
17	6.3	6.8	8.3	7.0	13	10	57	120	149	31	14	10
18	6.0	6.8	8.3	10	13	9.9	51	80	146	30	14	10
19	6.0	6.8	7.9	14	13	9.9	48	60	134	29	14	10
20	6.0	6.8	7.9	16	12	9.9	43	51	118	28	14	10
21	6.0	6.8	7.6	16	12	10	39	45	118	27	14	10
22	6.3	6.5	7.6	14	12	10	37	44	118	27	14	10
23	6.3	6.8	7.6	14	12	12	35	41	113	26	13	10
24	6.5	7.3	7.6	13	11	14	34	42	108	25	13	9.9
25	6.0	8.6	7.3	12	12	15	34	54	95	24	13	9.9
26	6.0	9.2	7.3	12	11	16	35	78	86	24	13	9.9
27	6.0	8.9	7.0	12	11	19	34	103	77	23	13	10
28	6.0	8.6	7.0	12	10	20	36	120	63	22	12	10
29	6.0	8.6	7.0	12	-----	20	37	118	54	21	14	10
30	6.0	9.5	7.0	12	-----	22	39	106	51	21	13	10
31	6.0	-----	7.0	12	-----	24	-----	88	-----	21	12	-----
TOTAL	197.7	212.8	251.8	293.6	333	378.5	1,208	2,788	3,100	1,043	478	325.7
MEAN	6.38	7.09	8.12	9.47	11.9	12.2	40.3	89.9	103	33.6	15.4	10.9
MAX	7.3	9.5	9.2	16	14	24	60	169	149	51	20	13
MIN	6.0	6.0	7.0	5.2	10	9.5	22	41	51	21	12	9.9
AC-FT	392	422	499	582	661	751	2,400	5,530	6,150	2,070	948	646
CAL YR 1970	TOTAL	7,492.1	MEAN	20.5	MAX	166	MIN	3.3	AC-FT	14,860		
WTR YR 1971	TOTAL	10,610.1	MEAN	29.1	MAX	169	MIN	5.2	AC-FT	21,050		

BEAR RIVER BASIN

10104600 South Fork Little Bear River near Avon, Utah

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 mile upstream from Davenport Creek, and 2.2 miles south of Avon.

DRAINAGE AREA.--26.0 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,090 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 24.9 cfs (18,040 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 202 cfs Mar. 26 (gage height, 1.97 ft); minimum, 8.8 cfs Jan. 4.
Period of record: Maximum discharge, 563 cfs Jan. 21, 1969 (gage height, 3.18 ft); minimum, 8.0 cfs Dec. 28, 1966.

REMARKS.--Records good. A few small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	29	14	31	18	56	58	45	26	17	17
2	10	12	24	14	29	17	56	63	40	25	17	17
3	10	12	21	12	26	17	62	67	39	25	17	18
4	10	12	20	11	24	18	68	69	39	24	18	16
5	11	12	19	11	24	17	77	68	38	24	18	16
6	11	13	18	11	22	17	92	63	38	24	18	15
7	11	17	18	13	22	17	98	59	37	23	18	16
8	11	14	19	13	21	17	99	62	37	23	18	16
9	12	13	40	13	20	17	107	64	37	23	18	15
10	13	18	29	14	20	18	119	58	37	22	17	15
11	12	16	23	14	26	18	98	57	42	22	18	15
12	11	16	19	14	24	37	90	57	38	22	17	15
13	11	15	18	14	28	57	85	59	37	21	17	15
14	11	13	18	14	28	29	86	62	36	21	17	15
15	11	13	17	14	39	24	91	58	35	21	17	15
16	11	13	17	14	27	23	86	58	34	20	17	15
17	11	12	17	35	24	23	82	54	34	20	17	15
18	11	13	17	143	24	21	81	51	33	20	17	15
19	11	12	16	115	23	21	79	48	32	20	17	15
20	11	12	16	97	22	22	75	46	31	20	17	15
21	11	12	16	59	20	23	79	45	31	20	17	15
22	12	12	16	42	20	26	76	44	30	19	17	15
23	12	12	15	34	19	54	66	42	30	19	17	15
24	16	22	15	30	20	84	69	41	29	19	17	15
25	13	39	14	27	19	65	69	41	28	19	17	16
26	12	38	13	26	19	125	81	40	28	18	17	16
27	12	25	14	26	18	119	87	40	28	18	17	16
28	11	21	14	26	18	86	65	40	28	18	18	16
29	12	27	14	25	-----	89	58	41	27	18	20	16
30	12	62	14	26	-----	104	56	41	26	18	18	16
31	12	-----	14	30	-----	78	-----	42	-----	17	17	-----
TOTAL	355	540	574	951	657	1,301	2,393	1,638	1,024	649	539	467
MEAN	11.5	18.0	18.5	30.7	23.5	42.0	79.8	52.8	34.1	20.9	17.4	15.6
MAX	16	62	40	143	39	125	119	69	45	26	20	18
MIN	10	12	13	11	18	17	56	40	26	17	17	15
AC-FT	704	1,070	1,140	1,890	1,300	2,580	4,750	3,250	2,030	1,290	1,070	926
CAL YR 1970	TOTAL	7,301	MEAN	20.0	MAX	84	MIN	10	AC-FT	14,480		
WTR YR 1971	TOTAL	11,088	MEAN	30.4	MAX	143	MIN	10	AC-FT	21,990		

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LOCATION.--Lat 41°30'45", long 111°48'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.9 N., R.1 E., Cache County, on right bank 0.6 mile downstream from Davenport Creek and 1.5 miles south of Avon.

PERIOD OF RECORD.--October 1960 to current year. Published as 10105700 South Fork Little Bear River near Avon, 1960-62.

AVERAGE DISCHARGE.--11 years, 52.6 cfs (38,110 acre-ft per year).

REMARKS.--Records good. A few small diversions for irrigation above the station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	58	29	67	33	99	139	197	86	45	39
2	22	25	49	28	63	31	97	158	185	84	44	38
3	23	24	43	22	56	35	112	188	186	80	44	45
4	23	24	41	17	47	34	124	206	186	77	48	42
5	23	25	39	20	51	33	137	205	186	75	47	40
6	27	30	36	20	43	32	167	190	193	72	48	39
7	25	40	35	24	43	32	193	187	189	70	47	41
8	25	32	35	25	41	32	187	198	195	71	46	39
9	27	29	64	26	39	33	195	196	218	68	46	37
10	33	39	56	27	41	33	213	194	207	66	44	37
11	26	34	44	29	48	34	190	217	217	66	43	37
12	25	35	34	28	47	66	174	236	189	64	43	37
13	24	33	30	27	54	98	164	252	174	62	42	36
14	23	30	33	27	59	52	172	240	163	60	42	35
15	23	28	37	27	79	45	183	249	160	60	41	35
16	23	28	34	27	57	43	185	258	154	58	41	35
17	23	27	34	63	49	43	190	230	146	57	41	35
18	24	28	33	268	50	40	189	241	141	57	40	35
19	24	27	30	210	47	40	178	183	134	57	38	35
20	24	27	29	176	43	43	184	162	121	56	38	34
21	23	27	33	109	41	46	195	156	115	56	37	35
22	25	27	33	78	40	51	188	154	109	54	36	35
23	25	28	30	65	39	102	159	150	102	52	38	35
24	36	43	27	58	39	170	162	153	102	52	36	35
25	28	70	24	54	38	126	163	173	98	53	36	35
26	25	75	23	50	36	208	177	204	94	52	36	34
27	25	53	28	51	35	203	184	218	98	70	35	34
28	25	45	30	51	36	142	146	230	97	47	37	34
29	26	52	29	49	-----	149	129	217	94	48	48	34
30	25	117	30	51	-----	178	125	206	91	46	43	36
31	25	-----	30	60	-----	144	-----	196	-----	45	40	-----
TOTAL	777	1,127	1,111	1,796	1,328	2,351	4,961	6,186	4,541	1,921	1,290	1,098
MEAN	25.1	37.6	35.8	57.9	47.4	75.8	165	200	151	62.0	41.6	36.6
MAX	36	117	64	268	79	208	213	258	218	86	48	45
MIN	22	24	23	17	35	31	97	139	91	45	35	34
AC-FT	1,540	2,240	2,200	3,560	2,630	4,660	9,840	12,270	9,010	3,810	2,560	2,180
CAL YR 1970	TOTAL	18,392	MEAN	50.4	MAX	237	MIN	21	AC-FT	36,480		
WTR YR 1971	TOTAL	28,487	MEAN	78.0	MAX	268	MIN	17	AC-FT	56,500		

BEAR RIVER BASIN

10104900 East Fork Little Bear River above reservoir, near Avon, Utah

LOCATION.--Lat 41°31'10", long 111°42'52", in NW¼ sec.15, T.9 N., R.2 E., Cache County, on right bank 1.2 miles above Porcupine Creek, 1.7 miles above Porcupine Dam, 5.2 miles east of Avon, and 7.2 miles southeast of Paradise.

DRAINAGE AREA.--58 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,390 ft (by altimeter).

AVERAGE DISCHARGE.--8 years, 37.0 cfs (26,810 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 522 cfs Apr. 15 (gage height, 3.31 ft); minimum, 7.2 cfs Oct. 28, Nov. 3, 4.

Period of record: Maximum discharge, 614 cfs May 9, 1967 (gage height, 3.43 ft); maximum gage height, 3.44 ft Apr. 23, 1969; minimum discharge, 2.2 cfs Feb. 26, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	7.9	22	12	41	23	118	252	141	34	20	14
2	8.1	7.8	20	12	44	21	94	316	123	32	20	13
3	8.1	7.7	19	11	42	21	90	374	116	32	20	14
4	8.1	7.6	18	9.0	39	21	102	349	112	32	20	14
5	8.1	7.8	17	10	37	20	128	300	105	31	20	14
6	9.0	8.9	16	10	33	19	170	288	100	30	19	13
7	9.0	10	16	11	32	19	208	284	92	29	19	13
8	8.5	9.4	17	11	30	19	220	287	89	30	18	13
9	8.9	8.8	18	12	28	18	263	284	94	29	18	12
10	11	9.9	18	12	28	18	326	295	85	28	18	12
11	9.2	9.7	17	11	28	18	288	309	89	28	17	12
12	8.6	10	16	11	27	20	245	320	80	28	17	12
13	8.4	9.9	15	11	29	24	250	324	71	27	16	12
14	8.3	9.2	15	11	33	24	289	338	65	27	16	11
15	8.1	9.2	15	12	37	23	323	330	61	26	16	11
16	8.1	9.3	15	12	36	22	332	326	61	26	16	11
17	8.0	9.2	15	18	35	23	346	293	55	26	16	11
18	7.9	9.3	14	115	34	21	271	251	52	26	16	11
19	7.8	9.0	13	137	32	21	228	217	50	26	15	11
20	7.9	8.8	13	132	31	21	200	199	47	25	15	12
21	8.1	9.0	13	103	28	23	187	187	45	25	14	11
22	8.6	9.0	13	79	27	25	203	177	44	24	14	11
23	8.5	9.0	12	64	26	33	190	166	42	24	14	11
24	10	9.6	12	53	26	52	197	160	41	24	14	11
25	9.1	14	12	46	26	55	215	163	39	23	14	11
26	8.6	19	12	41	25	64	223	165	38	22	14	11
27	8.2	18	12	37	24	114	196	163	37	22	14	11
28	7.8	16	12	35	24	120	176	161	37	22	14	11
29	7.8	16	12	35	-----	116	172	156	36	22	16	11
30	7.9	22	12	36	-----	143	203	148	35	21	15	13
31	8.0	-----	12	38	-----	163	-----	139	-----	21	14	-----
TOTAL	261.8	321.0	463	1,147.0	882	1,324	6,453	7,721	2,082	822	509	358
MEAN	8.45	10.7	14.9	37.0	31.5	42.7	215	249	69.4	26.5	16.4	11.9
MAX	11	22	22	137	44	163	346	374	141	34	20	14
MIN	7.8	7.6	12	9.0	24	18	90	139	35	21	14	11
AC-FT	519	637	918	2,280	1,750	2,630	12,800	15,310	4,130	1,630	1,010	710
CAL YR 1970	TOTAL 10,601.2		MEAN 29.0	MAX 295	MIN 6.3	AC-FT 21,030						
WTR YR 1971	TOTAL 22,343.8		MEAN 61.2	MAX 374	MIN 7.6	AC-FT 44,320						

BEAR RIVER BASIN

169

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 mile upstream from backwater of Hyrum Reservoir, 2 miles northwest of Paradise, and 5 miles downstream from East Fork.

DRAINAGE AREA.--203 sq mi.

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 (from topographic map). Prior to Nov. 28, 1945, at site 150 ft upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft higher.

AVERAGE DISCHARGE.--34 years, 87.0 cfs (63,030 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 799 cfs Apr. 16 (gage height, 7.39 ft); minimum daily, 32 cfs Oct. 4.
Period of record: Maximum discharge, 2,000 cfs Feb. 11, 1962 (gage height, 6.52 ft), from rating curve extended above 600 cfs; minimum, 4 cfs Aug. 14, 1940.

REMARKS.--Records good. Diversions above station for irrigation of about 10,000 acres, most of which is below station. Flow regulated slightly by trout farm about 2 miles upstream and by Porcupine Reservoir (capacity, 12,800 acre-ft) completed 1962. No diversion between station and Hyrum Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	47	110	64	117	75	277	466	337	83	64	60
2	36	44	95	63	112	80	268	550	308	80	64	60
3	35	55	85	63	104	78	271	647	291	78	63	74
4	32	60	82	63	92	78	277	714	288	77	57	100
5	35	60	80	63	97	77	305	647	281	74	60	102
6	41	61	78	63	88	72	322	583	271	70	63	99
7	51	70	74	65	88	70	355	564	255	69	64	106
8	55	66	75	65	83	75	371	564	258	64	64	99
9	55	69	106	65	82	75	382	564	281	63	69	93
10	61	80	102	65	85	78	417	546	271	60	64	90
11	54	72	85	67	95	80	398	574	305	58	64	87
12	51	74	70	67	92	113	382	612	277	54	61	83
13	51	69	60	67	100	186	382	647	258	58	60	66
14	49	64	70	66	106	112	555	683	243	60	60	63
15	49	61	72	66	132	97	647	683	237	58	60	58
16	49	61	72	67	110	92	683	714	223	60	58	60
17	49	60	72	104	97	92	642	652	206	60	57	63
18	49	61	70	433	99	83	612	597	183	60	58	63
19	49	60	64	352	95	80	518	532	162	72	57	61
20	49	58	64	281	90	83	450	492	149	63	58	61
21	49	58	69	183	85	87	421	450	136	61	60	66
22	54	58	69	138	83	93	454	425	121	63	60	66
23	54	58	64	117	82	160	413	402	110	63	61	64
24	66	69	61	108	83	281	425	382	104	63	63	63
25	57	97	61	100	82	204	458	382	99	61	61	61
26	55	117	65	99	80	344	501	398	97	60	63	64
27	51	99	69	99	78	398	514	409	93	60	66	64
28	48	88	67	97	78	268	429	413	92	60	61	63
29	48	92	66	95	-----	277	390	378	90	58	67	63
30	48	164	66	57	-----	363	405	367	88	57	67	78
31	48	-----	66	108	-----	333	-----	340	-----	55	60	-----
TOTAL	1,514	2,152	2,309	3,450	2,615	4,584	12,924	16,377	6,114	1,982	1,914	2,200
MEAN	48.8	71.7	74.5	111	93.4	148	431	528	204	63.9	61.7	73.3
MAX	66	164	110	433	132	398	683	714	337	83	69	106
MIN	32	44	60	63	78	70	268	340	88	54	57	58
AC-FT	3,000	4,270	4,580	6,840	5,190	9,090	25,630	32,480	12,130	3,930	3,800	4,360

CAL YR 1970 TOTAL 29,154 MEAN 80.0 MAX 421 MIN 32 AC-FT 57,910
WTR YR 1971 TOTAL 58,135 MEAN 159 MAX 714 MIN 32 AC-FT 115,300

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 mile southwest of Hyrum.

DRAINAGE AREA.--220 sq mi.

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, 15,900 acre-ft June 11 (elevation, 4,673.3 ft); minimum observed, 9,840 acre-ft Aug. 28, 29.

Period of record: Maximum contents observed, 16,290 acre-ft May 20, 1967 (elevation, 4,674.1 ft); 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 between elevations 4,629.6 (sill of outlet canal) and 4,672 ft (top of spillway gates). Dead storage below sill of outlet canal, 3,405 acre-ft. Elevation of spillway crest, 4,660 ft. 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. Some elevations 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 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,220								13,500	14,760	12,170	10,010
2									13,870	14,670	12,120	10,010
3								11,850	14,200	14,530		10,050
4									14,480	14,430	12,030	10,140
5									14,760			10,220
6								12,390	15,040	14,250	11,850	10,260
7								12,350	15,280	14,100	11,760	10,310
8								12,300		14,010	11,630	10,310
9												
10								12,300		13,730	11,450	10,310
11								12,260	15,900	13,590		10,310
12										13,500	11,220	10,310
13								12,350		13,310		
14								12,580			11,090	
15								12,620		13,080	11,000	10,260
16										12,990	10,870	10,260
17								12,670		12,990	10,740	
18								12,620		12,990	10,650	10,220
19								12,440		12,900		10,220
20								12,210		12,850	10,440	
21								12,080		12,760	10,310	
22								11,940		12,670	10,220	10,220
23										12,620		
24								11,760	15,420	12,580	10,050	
25								11,670		12,580	9,960	10,220
26								11,630	15,280	12,530	9,920	
27								11,630	15,190	12,480	9,880	
28					10,650			12,170	15,090	12,390	9,840	
29					-----			12,580	15,000		9,840	
30					-----			12,850	14,860	12,260	9,880	10,260
31	10,390	10,740	10,520	10,740	-----	11,630	-----	13,130	-----	12,210	10,010	-----
(+)	4661.3	4662.1	4661.6	4662.1	4661.9	4664.1	4664.7	4667.4	4671.1	4665.4	4660.4	4661.0
(±)	+210	+350	-220	+220	-90	+980	+270	+1,230	+1,730	-2,650	-2,200	+250

CAL YR 1970..... ± +40

WTR YR 1971..... ± +80

+ Elevation, in feet, at end of month.

± Change in contents, in acre-feet.

BEAR RIVER BASIN

171

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 upstream from road bridge, 1 mile downstream from Hyrum Dam, and 1.5 miles west of Hyrum.

DRAINAGE AREA.--222 sq mi.

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder and concrete control since July 18, 1962. Altitude of gage is 4,520 ft (from topographic map). Prior to Nov. 9, 1949, at site 1,200 ft downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 715 cfs May 17 (gage height, 3.61 ft); minimum daily, 2.7 cfs Aug. 2.

Period of record: Maximum discharge, 986 cfs Apr. 30, 1952 (gage height, 4.54 ft); minimum daily, 0.20 cfs at times.

REMARKS.--Records good. Diversions above station for irrigation of about 10,000 acres above and about 7,600 acres below station. Flow regulated by Hyrum Reservoir 1 mile upstream. (See sta 10107000)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	47	123	63	107	82	318	421	51	5.4	3.1	11
2	8.5	46	117	63	111	79	296	463	52	5.0	2.7	13
3	16	44	109	60	109	78	290	527	54	4.0	3.3	26
4	25	48	99	55	105	81	289	595	52	3.2	3.7	50
5	28	51	94	52	101	82	297	616	55	4.3	4.0	71
6	32	55	89	50	96	80	312	606	54	2.8	3.8	83
7	38	64	84	51	93	78	332	578	33	3.1	3.2	91
8	41	66	81	53	90	78	345	562	47	3.0	3.3	92
9	44	66	86	59	87	77	350	558	115	3.2	3.2	88
10	49	70	101	67	86	79	362	552	160	5.0	2.8	84
11	51	73	98	75	87	79	377	558	190	4.9	2.9	81
12	51	73	92	75	90	84	366	581	206	4.5	3.3	79
13	51	73	83	76	92	119	354	613	196	3.9	4.3	72
14	50	71	77	73	98	132	394	666	184	3.9	6.2	67
15	55	69	74	71	105	126	475	681	175	4.0	4.9	66
16	61	67	74	71	118	118	558	692	177	3.6	4.4	65
17	56	65	75	74	114	113	600	696	151	3.5	5.7	62
18	53	65	74	142	113	106	608	657	130	4.5	4.3	62
19	51	64	71	232	109	101	579	592	113	4.1	5.3	62
20	49	63	68	260	106	98	539	529	89	4.4	6.9	60
21	49	62	68	243	100	97	507	482	69	5.1	5.9	60
22	50	62	69	208	95	100	482	440	45	5.8	4.7	61
23	51	61	68	176	91	113	466	405	21	6.2	4.2	61
24	57	62	66	152	89	169	446	376	7.7	5.0	4.0	60
25	58	69	63	133	91	217	445	351	7.3	3.8	4.0	58
26	55	89	59	121	89	245	461	340	7.3	3.5	3.6	57
27	54	98	58	113	85	324	478	154	7.7	3.1	3.5	59
28	52	96	60	108	84	322	472	51	7.3	3.1	3.6	60
29	50	92	62	104	-----	299	439	124	7.7	3.2	4.1	58
30	49	111	62	101	-----	314	416	132	6.4	3.9	4.4	63
31	48	-----	63	101	-----	338	-----	98	-----	4.0	8.7	-----
TOTAL	1,386.3	2,042	2,467	3,282	2,741	4,408	12,653	14,696	2,470.4	127.0	132.0	1,882
MEAN	44.7	68.1	79.6	106	97.9	142	422	474	82.3	4.10	4.26	62.7
MAX	61	111	123	260	118	338	608	696	206	6.2	8.7	92
MIN	3.8	44	58	50	84	77	289	51	6.4	2.8	2.7	11
AC-FT	2,750	4,050	4,890	6,510	5,440	8,740	25,100	29,150	4,900	252	262	3,730
CAL YR 1970	TOTAL 19,011.06		MEAN 52.1	MAX 339	MIN .20	AC-FT 37,710						
WTR YR 1971	TOTAL 48,286.70		MEAN 132	MAX 696	MIN 2.7	AC-FT 95,780						

LOCATION.--Lat 41°44'35", long 111°45'40", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.31, T.12 N., R.2 E., Cache County, on left bank 487 ft downstream from head and 3.8 miles east of Logan.

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,857.66 ft above mean sea level (Bureau of Public Roads bench mark).

EXTREMES.--Period of record: Maximum daily discharge, 111 cfs May 23, 1963, May 28, 1966; no flow at times most years.

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	7.1	6.0	5.7	5.7	5.2	3.9	.67	42	74	58	14
2	8.6	7.1	6.0	5.7	5.7	5.2	3.7	.06	41	78	57	14
3	8.3	7.0	6.0	5.7	5.7	5.2	4.0	0	41	77	56	14
4	8.3	6.8	6.0	5.7	5.7	5.1	4.0	0	41	76	56	12
5	8.2	6.8	6.0	6.3	5.7	4.9	4.0	0	40	78	55	7.4
6	8.0	6.8	6.0	8.2	5.5	4.6	3.6	0	41	88	54	7.2
7	8.0	6.8	6.0	9.7	5.5	4.6	3.3	0	41	90	54	7.1
8	8.0	6.8	6.0	11	5.5	4.6	2.6	0	39	87	54	7.1
9	8.0	6.8	6.0	9.4	5.4	4.2	2.2	0	38	87	53	7.1
10	8.0	6.8	6.0	6.6	5.4	4.2	2.1	0	30	81	53	7.1
11	8.0	6.8	6.0	6.5	5.6	4.2	1.9	6.6	17	75	52	7.1
12	8.0	6.8	6.0	6.2	5.5	4.2	8.7	13	26	73	52	7.1
13	8.0	6.8	6.0	6.2	5.4	4.2	12	15	36	72	54	6.9
14	8.0	6.8	6.0	6.0	5.3	4.2	12	21	35	77	63	16
15	8.0	6.8	6.0	6.0	5.3	4.2	12	17	35	80	62	25
16	8.0	6.5	6.0	6.0	5.4	4.2	11	15	34	71	61	28
17	7.9	6.5	6.0	6.0	5.4	4.2	11	13	35	74	59	24
18	8.0	6.5	6.0	6.0	5.4	4.3	11	19	35	71	62	16
19	7.8	6.5	6.0	6.0	5.4	4.6	8.0	36	34	75	64	16
20	7.5	6.5	6.0	6.0	5.4	4.8	1.7	36	41	76	63	16
21	7.3	6.5	6.0	6.0	5.4	4.7	1.5	36	59	78	63	16
22	7.3	6.5	6.0	6.0	5.4	5.0	1.4	36	58	76	63	16
23	7.3	6.5	5.8	5.7	5.4	5.1	1.3	36	58	71	62	16
24	7.3	6.5	5.8	5.7	5.4	5.2	1.3	36	57	70	62	16
25	7.3	6.5	5.9	5.7	5.4	5.2	1.2	45	76	69	61	20
26	7.1	6.5	5.9	5.7	5.3	5.2	1.1	61	91	68	59	22
27	7.1	6.4	5.9	5.7	5.2	5.2	1.0	72	79	67	57	21
28	7.1	6.3	6.0	5.7	5.2	5.1	1.0	72	72	64	53	13
29	7.1	6.3	5.9	5.7	-----	5.2	1.0	69	70	59	25	13
30	7.1	6.2	5.9	5.7	-----	4.9	.46	60	69	59	25	11
31	7.1	-----	5.8	5.7	-----	4.1	-----	54	-----	58	24	-----
TOTAL	240.3	199.5	184.9	198.2	152.6	145.8	133.96	769.33	1,411	2,299	1,696	423.1
MEAN	7.75	6.65	5.96	6.39	5.45	4.70	4.47	24.8	47.0	74.2	54.7	14.1
MAX	8.6	7.1	6.0	11	5.7	5.2	12	72	91	90	64	28
MIN	7.1	6.2	5.8	5.7	5.2	4.1	.46	0	17	58	24	6.9
AC-FT	477	396	367	393	303	289	266	1,530	2,800	4,560	3,360	839
CAL YR 1970	TOTAL 7,777.50		MEAN 21.3	MAX 94	MIN .20		AC-FT 15,430					
WTR YR 1971	TOTAL 7,853.69		MEAN 21.5	MAX 91	MIN 0		AC-FT 15,580					

BEAR RIVER BASIN

173

10109000 Logan River above State dam, near Logan, Utah

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., 125 ft upstream from tailrace, 0.5 mile upstream from State dam, and 2.5 miles east of Logan.

DRAINAGE AREA.--218 sq mi.

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 (from topographic map). Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mile 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 lower than present datum.

AVERAGE DISCHARGE.--58 years (1913-71), 109 cfs (78,970 acre-ft per year). Average combined discharge of Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal, 75 years (1896-71), 273 cfs (197,800 acre-ft per year).

EXTREMES (River only).--Current year: Maximum discharge, 1,660 cfs June 12 (gage height, 5.92 ft); minimum daily, 90 cfs Jan. 4.
Period of record: Maximum discharge, 2,000 cfs Mar. 21, 1916 (gage height, 5.6 ft, datum then in use), from rating curve extended above 1,000 cfs; minimum daily, 6 cfs Nov. 7, 1940.
(Combined flow, Logan River above State dam, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal).--Current year: Maximum discharge, 1,720 cfs June 12; minimum daily, 96 cfs Jan. 4.
Period of record: Maximum observed discharge, 2,480 cfs May 24, 1907; minimum daily, 50 cfs Jan. 21, 1935.

REMARKS.--Records good. Water diverted from river and springs above station for power, irrigation and municipal supply. Flow regulated by powerplants above station. For records of combined flow of Logan River, Utah Power & Light Co.'s tailrace, and Logan, Hyde Park & Smithfield Canal, see following page. Combined flow record excludes that in Logan City culinary pipe lines and one small irrigation diversion from Power flume that siphons canyon 400 ft upstream from station. 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. Combined flow records this year for October and November includes flow of Utah Power and Light Co.'s tailrace for which figures are published in Water Resources Data for Utah - Part 1, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	120	149	117	158	128	263	460	1,040	1,020	390	290
2	128	120	143	117	161	125	253	520	1,030	969	382	290
3	122	117	143	106	164	131	253	614	1,040	939	375	294
4	120	117	140	90	152	137	263	745	1,090	921	372	287
5	122	120	137	93	161	131	290	680	1,080	888	364	297
6	128	128	137	93	146	128	332	628	1,180	844	361	287
7	128	140	137	114	149	120	375	655	1,240	816	361	290
8	125	131	137	125	146	134	390	665	1,290	794	354	287
9	128	137	143	131	143	125	415	685	1,370	761	343	280
10	146	149	140	128	149	131	484	720	1,480	740	336	277
11	131	143	134	120	152	125	484	783	1,590	720	328	270
12	128	146	128	122	143	134	437	882	1,560	695	322	266
13	128	143	120	120	143	143	419	1,010	1,480	670	314	263
14	128	131	125	114	146	137	460	1,070	1,450	641	300	253
15	125	131	131	117	155	134	488	1,120	1,470	614	294	243
16	120	131	125	117	155	131	512	1,190	1,390	600	294	237
17	122	131	125	146	155	134	540	1,140	1,430	574	287	237
18	120	131	125	204	152	128	540	980	1,430	564	287	246
19	117	131	117	224	152	125	488	822	1,450	548	277	246
20	114	128	111	214	149	131	457	788	1,420	528	273	243
21	117	128	117	195	140	131	453	745	1,420	512	270	243
22	131	128	117	186	134	143	457	730	1,390	492	266	240
23	128	128	108	173	143	155	445	685	1,380	480	266	237
24	143	137	111	164	143	201	445	715	1,360	468	266	237
25	131	155	117	158	143	204	468	838	1,320	453	256	230
26	128	167	117	158	137	208	476	939	1,260	434	253	227
27	117	158	120	155	134	263	453	1,010	1,250	426	253	230
28	117	149	120	152	140	260	437	1,100	1,180	419	260	237
29	120	143	120	152	-----	263	415	1,130	1,120	419	297	237
30	120	155	120	152	-----	283	419	1,110	1,070	408	290	240
31	120	-----	117	155	-----	297	-----	1,050	-----	400	283	-----
TOTAL	3,880	4,073	3,931	4,412	4,145	5,020	12,611	26,209	39,260	19,757	9,574	7,741
MEAN	125	136	127	142	148	162	420	845	1,309	637	309	258
MAX	146	167	149	224	164	297	540	1,190	1,590	1,020	390	297
MIN	114	117	108	90	134	120	253	460	1,030	400	253	227
AC-FT	7,700	8,080	7,800	8,750	8,220	9,960	25,010	51,990	77,870	39,190	18,990	15,350

CAL YR 1970 TOTAL 73,750 MEAN 202 MAX 1,020 MIN 45 AC-FT 146,300
WTR YR 1971 TOTAL 140,613 MEAN 385 MAX 1,590 MIN 90 AC-FT 278,900

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM, UTAH POWER & LIGHT CO.'S TAILRACE, AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	136	155	123	164	133	267	461	1,080	1,090	448	304
2	149	136	149	123	167	130	257	520	1,070	1,050	439	304
3	142	133	149	112	170	136	257	614	1,080	1,020	431	308
4	140	133	146	96	158	142	267	745	1,130	997	428	299
5	142	136	143	99	167	136	294	680	1,120	966	419	304
6	147	144	143	101	152	133	336	628	1,220	932	415	294
7	146	153	143	124	154	125	378	655	1,280	906	415	297
8	143	140	143	136	152	139	393	665	1,330	881	408	294
9	146	144	149	140	148	129	417	685	1,410	848	396	287
10	164	156	146	135	154	135	486	720	1,510	821	389	284
11	149	150	140	126	158	129	486	790	1,610	795	380	277
12	146	153	134	128	148	138	446	895	1,590	768	374	273
13	146	150	126	126	148	147	431	1,020	1,520	742	368	270
14	146	138	131	120	151	141	472	1,090	1,480	718	363	269
15	143	138	137	123	160	138	500	1,140	1,500	694	356	268
16	138	138	131	123	160	135	523	1,200	1,420	671	355	265
17	140	138	131	152	160	138	551	1,150	1,460	648	346	261
18	138	138	131	210	157	132	551	999	1,460	635	349	262
19	135	138	123	230	157	130	496	858	1,480	623	341	262
20	132	134	117	220	154	136	459	824	1,460	604	336	259
21	135	134	123	201	145	136	454	781	1,480	590	333	259
22	148	134	123	192	139	148	458	766	1,450	568	329	256
23	145	134	114	179	148	160	446	721	1,440	551	328	253
24	160	144	117	170	148	206	446	751	1,420	538	328	253
25	148	162	123	164	148	209	469	883	1,400	522	317	250
26	144	174	123	164	142	213	477	1,000	1,350	502	312	249
27	133	164	126	161	139	268	454	1,080	1,330	493	310	251
28	133	155	126	158	145	265	438	1,170	1,250	483	313	250
29	136	149	126	158	-----	268	416	1,200	1,190	478	322	250
30	136	161	126	158	-----	288	419	1,170	1,140	467	315	251
31	136	-----	123	161	-----	301	-----	1,100	-----	458	307	-----
TOTAL	4,435	4,337	4,117	4,613	4,293	5,164	12,744	26,961	40,660	22,059	11,270	8,163
MEAN	143	145	133	149	153	167	425	870	1,355	712	364	272
MAX	164	174	155	230	170	301	551	1,200	1,610	1,090	448	308
MIN	132	133	114	96	139	125	257	461	1,070	458	307	249
AC-FT	8,800	8,600	8,170	9,150	8,520	10,240	25,280	53,480	80,650	43,750	22,350	16,190
CAL YR 1970	TOTAL 90,991		MEAN 249	MAX 1,120	MIN 89	AC-FT 180,500						
WTR YR 1971	TOTAL 148,816		MEAN 408	MAX 1,610	MIN 96	AC-FT 295,200						

BEAR RIVER BASIN

175

10113500 Blacksmith Fork above Utah Power & Light Co.'s dam, near Hyrum, Utah

LOCATION.--Lat 41°37'20", long 111°44'25", in NE¼ sec.8, T.10 N., R.2 E., Cache County, on right bank 0.8 mile upstream from diversion dam, 3.2 miles upstream from powerplant of Utah Power & Light Co., and 6 miles east of Hyrum.

DRAINAGE AREA.--260 sq mi.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (from topographic map). Prior to Oct. 2, 1934, at site 1,000 ft upstream at different datum.

AVERAGE DISCHARGE.--58 years, 125 cfs (90,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 856 cfs May 16 (gage height, 4.87 ft); minimum daily, 51 cfs Jan. 6.

Period of record: Maximum discharge, 1,620 cfs May 15, 1917 (gage height, 6.5 ft, from floodmarks, site and datum then in use), from rating curve extended above 800 cfs; minimum daily, 29 cfs Jan. 3, 1935.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres above station. Low flow may be slightly regulated by powerplant above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	84	109	84	138	111	285	536	483	246	204	181
2	90	84	105	86	140	105	267	607	460	244	204	179
3	84	84	105	82	140	111	267	695	440	244	202	186
4	94	84	104	77	132	111	277	751	431	241	204	183
5	90	84	103	71	130	109	298	673	422	238	209	181
6	92	88	102	51	124	105	341	634	431	236	209	179
7	94	96	101	75	122	103	377	637	422	234	214	181
8	92	92	100	88	119	105	394	637	411	234	204	176
9	92	90	99	94	117	105	437	613	414	231	204	174
10	98	92	98	94	117	105	527	625	408	231	199	174
11	94	92	97	92	117	105	524	655	414	228	199	174
12	90	90	96	88	119	105	466	695	400	226	197	172
13	88	88	95	88	119	119	460	726	377	226	197	172
14	88	84	94	86	124	119	486	789	372	219	195	172
15	86	84	94	86	130	113	533	777	355	219	195	172
16	86	82	94	86	134	111	583	822	349	219	192	172
17	86	80	94	90	130	113	613	751	338	219	192	170
18	86	84	94	153	128	107	604	655	330	221	190	170
19	86	84	86	241	126	109	507	595	316	224	190	170
20	84	84	86	224	126	111	469	559	308	221	190	170
21	86	84	86	186	117	115	440	530	301	219	190	172
22	88	84	90	168	115	122	446	527	293	219	188	170
23	88	94	86	155	115	147	434	501	285	219	183	170
24	103	84	86	145	117	209	443	492	280	216	183	168
25	94	96	82	136	117	211	469	501	272	216	183	168
26	90	111	75	130	115	209	507	510	267	214	183	168
27	86	103	88	126	111	332	492	515	269	214	181	168
28	86	98	86	126	115	303	489	524	264	214	183	168
29	86	96	86	124	-----	290	469	512	256	209	192	168
30	84	107	86	124	-----	341	483	498	251	209	188	172
31	84	-----	86	126	-----	372	-----	478	-----	207	183	-----
TOTAL	2,765	2,677	2,893	3,582	3,454	4,833	13,387	19,020	10,619	6,957	6,027	5,200
MEAN	89.2	89.2	93.3	116	123	156	446	614	354	224	194	173
MAX	103	111	109	241	140	372	613	822	483	246	214	186
MIN	84	80	75	51	111	103	267	478	251	207	181	168
AC-FT	5,480	5,310	5,740	7,100	6,850	9,590	26,550	37,730	21,060	13,800	11,950	10,310

CAL YR 1970 TOTAL 40,621 MEAN 111 MAX 332 MIN 64 AC-FT 80,570
WTR YR 1971 TOTAL 81,414 MEAN 223 MAX 822 MIN 51 AC-FT 161,500

PEAK DISCHARGE (BASE, 140 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-30	0400	3.66	425	5-16	1500	4.87	856
4-10	2300	4.56	649				

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 below County Highway bridge, 2.7 miles west of Logan, and 3.5 miles downstream from mouth of Blacksmith Fork.

DRAINAGE AREA.--524 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,424 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 302 cfs (218,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,980 cfs May 16 (gage height, 4.84 ft); minimum daily, 127 cfs Oct. 4.

Period of record: Maximum discharge, 1,980 cfs May 16, 1971 (gage height, 4.84 ft); minimum, 2.4 cfs 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 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	217	266	212	296	253	566	982	1,390	896	280	332
2	133	215	263	210	304	243	536	1,060	1,340	840	278	324
3	131	212	253	201	301	246	527	1,210	1,330	810	273	349
4	127	210	253	203	283	248	551	1,480	1,350	793	270	346
5	137	210	258	228	288	248	582	1,460	1,330	760	285	357
6	160	222	250	238	273	238	652	1,330	1,400	707	285	362
7	168	268	246	238	268	238	746	1,330	1,430	668	282	367
8	170	238	246	240	263	248	791	1,320	1,440	645	285	367
9	181	226	270	236	256	243	825	1,340	1,560	614	280	362
10	215	240	283	236	260	248	925	1,370	1,690	594	273	357
11	206	236	258	243	266	248	1,020	1,440	1,740	570	278	349
12	203	248	250	231	258	253	970	1,560	1,680	556	285	339
13	203	240	233	236	258	280	913	1,690	1,620	531	273	334
14	203	224	228	224	263	273	948	1,780	1,560	507	266	324
15	203	217	238	222	276	266	1,010	1,800	1,520	490	251	316
16	199	215	238	226	283	263	1,080	1,890	1,490	480	256	309
17	199	212	236	253	278	273	1,130	1,860	1,520	452	249	316
18	210	212	238	402	288	258	1,170	1,640	1,490	439	244	336
19	208	210	231	497	280	258	1,080	1,440	1,460	445	237	334
20	201	208	226	476	280	260	1,030	1,340	1,420	455	232	324
21	206	206	226	416	268	263	974	1,300	1,360	452	228	319
22	228	206	228	377	260	276	986	1,260	1,340	445	217	316
23	228	206	226	350	258	306	956	1,210	1,290	396	214	314
24	266	208	219	328	266	413	938	1,200	1,250	377	212	312
25	243	228	217	309	270	427	978	1,240	1,190	364	182	306
26	233	276	203	301	258	419	1,040	1,300	1,120	349	188	306
27	228	268	192	293	256	579	1,020	1,330	1,090	346	190	316
28	222	248	219	291	258	586	1,000	1,370	1,070	334	197	326
29	222	240	217	283	-----	566	948	1,400	1,010	316	261	334
30	222	260	219	283	-----	632	925	1,420	949	299	290	359
31	219	-----	212	286	-----	686	-----	1,380	-----	290	309	-----
TOTAL	6,111	6,826	7,342	8,769	7,616	10,238	26,817	43,732	41,429	16,220	7,850	10,012
MEAN	197	228	237	283	272	330	894	1,411	1,381	523	253	334
MAX	266	276	283	497	304	686	1,170	1,890	1,740	896	309	367
MIN	127	206	192	201	256	238	527	982	949	290	182	306
AC-FT	12,120	13,540	14,560	17,390	15,110	20,310	53,190	86,740	82,170	32,170	15,570	19,860
CAL YR 1970	TOTAL	91,777	MEAN	251	MAX	1,030	MIN	11	AC-FT	182,000		
WTR YR 1971	TOTAL	192,962	MEAN	529	MAX	1,890	MIN	127	AC-FT	382,700		

BEAR RIVER BASIN

177

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 downstream from Cutler Dam and 4 miles 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.--59 years, 51.0 cfs (36,950 acre-ft per year).

EXTREMES.--Maximum daily discharge, 184 cfs 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 below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 9 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	6.3						0	99	163	155	113
2	63	6.3						0	98	163	154	108
3	63	5.3						0	98	164	141	99
4	63	5.3						0	95	164	147	93
5	63	5.3						0	90	164	148	87
6	62	5.3						0	91	165	148	84
7	61	5.3						0	90	155	147	78
8	59	5.3						0	90	164	148	75
9	57	5.3						0	90	165	148	68
10	40	5.3						0	85	164	148	66
11	5.9	5.3						66	34	164	150	66
12	2.6	5.3						68	9.9	165	150	66
13	9.0	5.3						68	9.4	162	148	66
14	6.8	5.3						67	9.2	163	149	66
15	6.3	5.3						66	33	163	148	67
16	6.9	5.3						67	73	162	148	66
17	12	2.5						66	108	161	148	66
18	20	0						66	135	162	148	66
19	10	0						92	153	161	148	67
20	9.2	0						97	161	162	150	66
21	9.0	0						97	163	159	150	63
22	8.6	0						96	170	156	150	57
23	7.9	0						97	173	157	150	56
24	7.7	0						97	174	157	150	56
25	6.9	0						97	174	157	148	56
26	6.3	0						106	174	156	146	56
27	6.3	0						112	166	158	145	56
28	6.3	0						111	164	157	145	56
29	6.3	0						111	142	156	134	54
30	6.3	0						111	162	154	113	48
31	6.3	-----						104	-----	155	113	-----
TOTAL	760.6	89.3	C	0	0	0	0	1,862	3,313.5	4,978	4,515	2,091
MEAN	24.5	2.98	C	0	0	0	0	60.1	110	161	146	69.7
MAX	63	6.3	C	0	0	0	0	112	174	165	155	113
MIN	2.6	C	C	C	0	0	0	0	9.2	154	113	48
AC-FT	1,510	177	0	0	0	0	0	3,690	6,570	9,870	8,960	4,150
CAL YR 1970	TOTAL 20,110.90		MEAN 55.1	MAX 169	MIN 0	AC-FT 39,890						
WTR YR 1971	TOTAL 17,609.40		MEAN 48.2	MAX 174	MIN 0	AC-FT 34,930						

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 downstream from Cutler Dam and 4 miles 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.--59 years, 240 cfs (173,900 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 763 cfs July 11, 1967; no flow for periods in every year except 1914.

REMARKS.--Records good. 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 below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 11 discharge measurements furnished by Utah Power & Light Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	397	104	96	66	37	26		0	527	735	703	584
2	402	103	95	66	37	26		0	529	735	705	575
3	392	103	88	66	36	26		0	529	737	701	539
4	373	102	89	66	35	26		0	511	735	699	495
5	350	101	89	66	35	26		0	490	735	703	463
6	326	101	89	66	35	24		0	440	735	701	422
7	287	101	89	66	35	24		0	470	735	699	422
8	248	101	87	66	35	12		0	488	733	701	420
9	232	101	86	66	35	0		0	488	733	703	416
10	176	101	86	66	35	0		0	513	733	701	418
11	176	101	86	67	34	0		241	234	733	701	432
12	148	102	85	67	34	0		252	69	739	701	444
13	180	102	85	67	34	0		270	361	739	705	442
14	173	102	83	67	34	0		271	402	733	703	450
15	154	101	81	67	35	0		270	442	729	703	457
16	128	101	80	66	34	0		271	511	725	699	468
17	122	98	80	63	34	0		292	561	725	701	475
18	125	96	80	60	34	0		330	601	725	707	473
19	124	96	80	47	35	0		350	624	717	713	473
20	125	96	80	38	34	0		371	657	705	721	470
21	126	96	80	38	34	0		371	691	703	723	454
22	118	96	80	38	34	0		368	713	669	721	439
23	108	96	79	38	34	0		373	729	603	725	427
24	108	96	78	38	34	0		398	737	594	721	423
25	108	96	78	38	34	0		435	735	594	715	420
26	108	96	78	38	30	0		490	735	609	715	416
27	108	96	78	38	27	0		511	735	632	715	384
28	108	96	78	38	27	0		550	735	645	707	366
29	107	96	78	38	-----	0		605	737	673	651	365
30	107	97	68	37	-----	0		588	735	683	592	349
31	107	-----	67	37	-----	0	-----	529	-----	693	584	-----
TOTAL	5,851	2,974	2,556	1,685	951	190	0	8,136	16,729	21,714	21,639	13,381
MEAN	189	99.1	82.5	54.4	34.0	6.13	0	262	558	700	698	446
MAX	402	104	96	67	37	26	0	605	737	739	725	584
MIN	107	96	67	37	27	0	0	0	69	594	584	349
AC-FT	11,610	5,900	5,070	3,340	1,890	377	0	16,140	33,180	43,070	42,920	26,540
CAL YR 1970	TOTAL	102,622.00	MEAN	281	MAX	745	MIN	0	AC-FT	203,600		
WTR YR 1971	TOTAL	95,806.00	MEAN	262	MAX	739	MIN	0	AC-FT	190,000		

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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 downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 miles north of Collinston.

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.

EXTREMES.--Current year: Maximum discharge, 7,370 cfs June 14 (gage height, 6.81 ft); minimum daily, 15 cfs Oct. 17-20.

Period of record: Maximum discharge observed, 11,600 cfs June 7-10, 1909 (gage height, 7.70 ft, site and datum then in use); minimum daily, 10 cfs 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.

REVISIONS (WATER YEARS).--WSP 1564: 1902.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	659	2,030	1,660	2,880	2,300	3,860	5,210	5,670	4,470	885	1,600
2	717	729	2,170	1,860	2,880	2,240	3,850	4,550	5,700	4,150	1,000	1,740
3	462	1,430	1,790	2,050	2,910	2,260	3,840	4,290	5,700	4,020	1,390	1,870
4	294	1,030	1,710	1,490	2,930	2,390	3,370	4,790	5,680	4,000	1,330	2,190
5	1,480	1,110	2,030	1,220	2,920	2,790	3,400	5,330	5,690	3,990	407	2,240
6	1,760	1,610	2,060	1,190	2,420	2,320	3,350	5,680	5,690	3,510	499	2,000
7	1,680	1,960	1,860	1,310	2,400	2,240	3,320	5,750	5,680	3,070	1,210	2,680
8	1,930	1,340	1,890	1,280	2,180	1,850	3,440	5,510	5,630	2,750	1,010	1,820
9	2,050	1,510	1,650	789	2,320	1,300	3,620	5,390	5,550	2,840	932	1,730
10	1,510	1,430	2,020	784	2,150	2,480	3,650	5,720	5,790	2,900	1,590	2,390
11	1,430	1,430	2,040	2,040	2,290	2,250	3,770	5,670	6,450	2,350	825	2,480
12	1,180	1,200	2,160	1,650	2,270	2,370	3,820	5,350	7,060	2,140	1,370	1,950
13	981	793	1,880	1,670	1,830	2,950	3,830	5,210	6,980	1,890	1,040	1,840
14	949	985	2,050	1,980	2,850	2,970	3,810	5,460	7,150	2,110	898	2,050
15	1,150	1,390	1,660	1,900	2,450	2,970	3,800	5,830	7,110	1,950	885	1,760
16	722	1,230	1,260	2,240	2,840	3,020	3,790	5,930	6,980	1,890	1,050	1,740
17	15	1,060	1,230	2,230	2,780	3,000	3,810	6,210	6,700	1,610	838	1,730
18	15	1,280	2,120	2,930	2,580	2,960	3,820	6,400	6,490	1,310	981	1,680
19	15	1,040	1,480	3,470	2,920	2,870	4,120	6,110	6,270	1,400	1,090	1,600
20	15	1,020	1,220	3,700	2,930	2,670	4,620	5,570	6,270	1,320	651	2,070
21	207	583	1,260	3,910	2,930	2,590	4,610	5,460	6,260	1,180	818	1,500
22	457	108	1,200	3,780	2,930	2,610	4,590	5,130	5,890	2,060	554	1,820
23	1,040	783	1,430	3,920	2,590	2,610	4,600	4,740	5,670	699	807	1,910
24	905	889	2,080	3,310	1,820	2,630	4,300	4,740	5,630	525	1,070	1,920
25	1,260	1,010	1,710	2,940	2,830	2,930	3,820	4,750	5,490	1,630	825	1,860
26	1,420	1,190	1,430	2,960	2,170	3,620	4,490	4,750	5,230	2,020	852	1,910
27	353	1,740	1,270	3,010	2,020	3,740	5,290	5,040	5,150	1,150	772	1,760
28	1,050	1,770	1,180	2,950	2,480	3,870	5,650	5,210	4,870	644	991	1,650
29	1,220	1,190	1,200	2,930	-----	3,870	5,870	5,230	4,470	1,010	1,260	1,790
30	1,120	1,810	1,690	2,900	-----	3,870	5,590	5,240	4,520	1,410	1,560	1,770
31	416	-----	1,810	2,850	-----	3,870	-----	5,410	-----	1,340	1,810	-----
TOTAL	28,059	35,309	52,570	72,903	71,500	86,410	123,70					

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 above bridge on U.S. Highway 191 and 2.7 miles south of Plymouth.

DRAINAGE AREA.--632 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,307 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 61.2 cfs (44,340 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 339 cfs Mar. 16 (gage height, 6.64 ft); minimum daily, 21 cfs Aug. 24.

Period of record: Maximum discharge, 657 cfs Mar. 29, 1969 (gage height, 8.28 ft); minimum daily, 8.8 cfs Sept. 1, 1967.

Maximum measured discharge near this site, 3,240 cfs February 1962.

REMARKS.--Records good. Flow regulated by several small reservoirs above station. Diversions above station for irrigation of about 30,000 acres.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	45	90	58	112	96	125	264	85	37	27	27
2	24	44	106	53	114	83	114	240	96	36	26	27
3	24	44	114	29	115	83	109	204	113	35	26	28
4	24	44	104	64	112	87	106	161	122	34	26	28
5	24	44	93	58	104	91	102	144	118	33	26	26
6	26	46	89	47	91	88	98	134	111	33	26	27
7	28	51	88	45	84	84	96	130	114	31	38	29
8	29	52	83	45	83	87	92	131	110	31	34	29
9	30	52	82	46	80	92	90	126	100	30	26	30
10	34	52	82	48	77	103	90	123	88	30	25	31
11	32	52	82	50	96	124	90	127	87	31	29	31
12	30	54	82	53	99	148	88	137	85	30	26	30
13	31	54	73	57	110	180	85	135	84	29	24	31
14	32	54	64	60	118	210	85	122	83	28	23	30
15	30	54	60	60	134	270	84	115	76	27	23	30
16	31	53	60	63	142	326	81	118	68	27	23	30
17	32	53	64	72	153	290	81	120	62	26	22	30
18	32	53	65	99	168	254	83	120	56	26	22	28
19	34	54	64	128	182	193	100	120	51	27	22	28
20	34	54	58	162	194	148	130	122	48	27	22	29
21	34	53	60	148	199	134	142	126	44	30	22	31
22	36	54	59	143	180	130	150	128	43	30	22	31
23	38	53	57	136	144	129	147	132	40	32	22	30
24	44	52	54	136	126	133	140	135	36	31	21	31
25	46	55	59	131	116	144	140	138	35	30	22	31
26	46	62	50	121	112	163	158	133	34	30	22	32
27	45	71	54	118	102	171	196	118	34	28	23	30
28	43	81	60	116	99	168	216	104	34	28	23	29
29	43	82	57	116	-----	176	255	91	33	28	26	29
30	44	87	56	112	-----	166	296	83	34	28	27	34
31	45	-----	57	110	-----	142	-----	80	-----	27	26	-----
TOTAL	1,049	1,659	2,226	2,684	3,446	4,693	3,769	4,161	2,124	930	772	887
MEAN	33.8	55.3	71.8	86.6	123	151	126	134	70.8	30.0	24.9	29.6
MAX	46	87	114	162	199	326	296	264	122	37	38	34
MIN	24	44	50	29	77	83	81	80	33	26	21	26
AC-FT	2,080	3,290	4,420	5,320	6,840	9,310	7,480	8,250	4,210	1,840	1,530	1,760
CAL YR 1970	TOTAL 18,961		MEAN 51.9		MAX 207		MIN 20		AC-FT 37,610			
WTR YR 1971	TOTAL 28,400		MEAN 77.8		MAX 326		MIN 21		AC-FT 56,330			

BEAR RIVER BASIN

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10125700 Bear River Duck Club Canal near Bear River City, Utah

LOCATION.--Lat 41°39'23", long 112°09'34", in SE¼SE¼ sec.27, T.11 N., R.3 W., Box Elder County, on right bank fastened to upstream end of 6-foot corrugated metal pipe culvert, 0.4 mile downstream from head, and 3.2 miles northwest of Bear River City.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,258 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 53.5 cfs (38,760 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 86 cfs Mar. 7, 1968; minimum daily, 0.5 cfs Apr. 30, May 3, 11, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	52	54	46	52	44	47	70	53	47	50	54
2	49	52	55	46	52	43	43	71	53	47	50	54
3	48	52	56	46	53	41	40	68	55	46	50	56
4	49	52	56	46	52	41	39	65	58	46	50	56
5	50	52	56	46	50	42	38	61	58	46	53	54
6	50	51	55	45	49	42	38	58	58	46	51	53
7	50	52	55	45	47	42	37	56	57	46	52	56
8	50	52	55	45	45	42	37	56	56	47	58	55
9	50	51	55	45	46	42	36	57	55	48	53	54
10	52	51	55	45	44	43	36	56	55	47	50	54
11	52	51	54	41	45	44	37	55	55	48	49	55
12	52	51	54	41	48	46	48	56	53	48	51	54
13	51	50	54	41	49	49	49	57	52	48	51	53
14	51	50	52	44	50	52	50	57	53	49	50	53
15	50	50	51	47	52	55	51	55	53	49	49	53
16	50	50	51	49	53	58	52	55	52	48	49	54
17	50	50	50	52	54	62	53	55	51	48	49	54
18	50	50	50	55	54	64	54	56	49	50	48	53
19	50	50	50	57	54	62	55	55	47	50	49	52
20	50	50	49	60	54	59	56	55	46	50	49	51
21	50	49	49	60	54	56	57	56	46	51	49	52
22	52	49	49	58	54	53	58	58	46	54	50	54
23	52	49	48	58	52	50	58	59	45	54	50	52
24	53	49	47	56	50	46	58	58	45	50	49	51
25	53	48	47	56	48	47	57	58	45	51	50	50
26	53	48	46	56	47	49	60	58	45	50	50	51
27	52	49	45	55	46	51	63	56	45	50	50	49
28	52	50	45	54	45	51	65	55	46	50	51	50
29	52	51	45	54	-----	51	67	53	46	50	55	50
30	52	52	45	54	-----	52	69	53	46	49	56	52
31	52	-----	45	53	-----	50	-----	52	-----	50	55	-----
TOTAL	1,575	1,513	1,578	1,556	1,399	1,529	1,508	1,790	1,524	1,513	1,576	1,589
MEAN	50.8	50.4	50.9	50.2	50.0	49.3	50.3	57.7	50.8	48.8	50.8	53.0
MAX	53	52	56	60	54	64	69	71	58	54	58	56
MIN	48	48	45	41	44	41	36	52	45	46	48	49
AC-FT	3,120	3,000	3,130	3,090	2,770	3,030	2,990	3,550	3,020	3,000	3,130	3,150

CAL YR 1970 TOTAL 18,496 MEAN 50.7 MAX 65 MIN 39 AC-FT 36,690
WTR YR 1971 TOTAL 18,650 MEAN 51.1 MAX 71 MIN 36 AC-FT 36,990

NOTE.--No gage-height record Dec. 4 to Jan. 19, Feb. 17 to Mar. 25.

BEAR RIVER BASIN

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 mile downstream from head of Bear River Duck Club Canal and 3.1 miles northwest of Bear River City.

DRAINAGE AREA.--698 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,252 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 35.1 cfs (25,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 239 cfs Mar. 18 (gage height, 3.25 ft); minimum daily, 3.5 cfs Aug. 18.

Period of record: Maximum daily discharge, about 600 cfs Apr. 6, 1964, estimated on basis of records for station near Plymouth; minimum daily, 0.10 cfs July 26, 1967.

REMARKS.--Records good. Diversions for irrigation of several thousand acres above station.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	34	86	24	98	65	101	213	57	17	7.6	11
2	5.5	33	96	26	101	65	88	217	58	18	7.6	12
3	4.7	29	100	25	107	54	79	197	68	15	7.6	17
4	7.4	31	97	12	100	54	75	159	85	14	6.8	16
5	8.2	30	86	25	92	57	72	124	92	14	5.5	13
6	9.0	32	75	15	81	59	68	106	86	14	6.8	10
7	10	48	72	16	74	56	65	93	80	15	6.5	14
8	11	43	69	14	67	53	64	94	80	15	18	12
9	14	43	73	20	72	56	61	104	76	14	11	11
10	23	41	76	23	64	62	59	89	68	12	6.0	11
11	25	40	66	30	70	74	60	84	73	12	4.2	12
12	21	44	70	43	82	93	62	88	61	11	11	11
13	20	42	55	42	89	114	60	94	56	11	9.7	10
14	21	39	48	48	93	137	59	90	56	11	8.7	8.7
15	20	36	33	46	101	156	61	78	55	10	5.5	8.4
16	18	37	33	54	113	186	42	74	50	7.9	6.0	11
17	20	37	32	59	122	220	41	76	41	10	5.0	10
18	20	38	34	86	132	235	45	78	34	10	3.5	9.3
19	22	37	36	109	149	213	48	76	26	11	4.4	7.6
20	23	40	30	140	159	151	73	75	22	10	6.2	7.1
21	23	41	29	142	164	112	106	80	19	12	6.5	7.9
22	26	37	34	130	159	101	116	85	18	23	6.8	10
23	27	37	27	126	134	98	119	92	17	22	6.2	10
24	44	36	27	116	109	100	120	92	14	14	5.2	8.2
25	40	38	26	116	92	107	114	97	13	14	6.5	7.6
26	36	43	25	114	82	116	137	103	12	11	7.6	8.2
27	34	53	21	107	76	131	164	92	12	9.7	8.7	7.6
28	32	66	25	103	69	131	178	81	14	8.7	9.0	6.2
29	31	72	30	104	-----	131	184	62	13	8.2	15	7.1
30	32	81	25	107	-----	136	197	57	12	7.4	21	12
31	32	-----	25	103	-----	124	-----	50	-----	9.7	14	-----
TOTAL	664.2	1,258	1,565	2,133	2,851	3,447	2,718	3,100	1,368	391.6	254.1	306.9
MEAN	21.4	41.9	50.5	68.8	102	111	90.6	100	45.6	12.6	8.20	10.2
MAX	44	81	100	142	164	235	197	217	92	23	21	17
MIN	4.4	29	21	12	64	53	41	50	12	7.4	3.5	6.2
AC-FT	1,320	2,500	3,100	4,230	5,650	6,840	5,390	6,150	2,710	777	504	609
CAL YR 1970	TOTAL	10,172.25	MEAN	27.9	MAX	162	MIN	.54	AC-FT	20,180		
WTR YR 1971	TOTAL	20,056.80	MEAN	55.0	MAX	235	MIN	3.5	AC-FT	39,780		

BEAR RIVER BASIN

183

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 miles downstream from Salt Creek, 2.0 miles northeast of Corinne, and 2.8 miles downstream from Malad River.

DRAINAGE AREA.--6,800 sq mi, approximately.

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, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

AVERAGE DISCHARGE.--16 years, 1,667 cfs (1,208,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,370 cfs June 17 (gage height, 15.12 ft); minimum daily, 104 cfs Oct. 20.

Period of record: Maximum discharge, 7,370 cfs June 17, 1971 (gage height, 15.12 ft); minimum daily, 72 cfs 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 are equivalent to flow at Bear River Bird Refuge diversion works.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	685	781	1,600	2,000	2,970	2,600	4,050	6,000	5,430	4,630	1,400	2,170
2	471	645	1,930	2,000	2,980	2,650	4,040	5,720	5,630	4,550	1,100	2,000
3	726	883	2,480	2,000	2,980	2,580	4,030	4,990	5,710	4,240	1,100	2,190
4	666	1,450	2,220	2,200	3,000	2,400	3,920	4,600	5,750	4,110	1,500	2,470
5	520	1,230	2,090	2,000	3,000	2,700	3,680	4,910	5,800	4,090	1,400	2,610
6	1,420	1,330	2,300	1,600	2,800	2,790	3,600	5,300	5,830	4,070	703	2,460
7	2,000	1,780	2,360	1,500	2,510	2,520	3,560	5,570	5,820	3,540	678	2,690
8	1,980	1,900	2,220	1,500	2,460	2,380	3,520	5,730	5,790	3,220	1,200	2,690
9	2,080	1,610	2,220	1,500	2,300	1,890	3,610	5,740	5,770	2,970	1,150	2,260
10	2,310	1,630	2,050	1,200	2,340	1,620	3,790	5,600	5,700	3,070	1,100	2,290
11	2,080	1,580	2,340	1,100	2,260	2,450	3,810	5,690	5,880	3,140	1,700	2,750
12	1,750	1,530	2,340	2,200	2,390	2,380	3,910	5,790	6,210	2,720	1,300	2,630
13	1,490	1,310	2,430	2,100	2,350	2,770	3,970	5,610	6,670	2,270	1,400	2,350
14	1,240	892	2,250	2,100	2,310	3,060	3,990	5,410	6,990	2,160	1,200	2,240
15	1,190	994	2,320	2,100	2,680	3,130	3,990	5,470	7,180	2,270	1,000	2,320
16	1,390	1,400	1,990	2,100	2,820	3,180	3,990	5,710	7,310	2,200	1,050	2,170
17	1,110	1,280	1,520	2,300	2,960	3,270	4,010	5,860	7,340	2,100	1,100	2,100
18	320	1,140	1,500	2,500	2,930	3,270	4,060	6,040	7,200	1,900	940	2,070
19	140	1,300	2,140	3,500	2,960	3,240	4,060	6,250	6,970	1,500	1,050	2,060
20	104	1,100	1,830	4,340	3,140	3,090	4,400	6,230	6,710	1,550	1,150	2,070
21	111	1,020	1,550	4,500	3,180	2,860	4,870	5,910	6,550	1,500	800	2,340
22	248	629	1,590	4,530	3,190	2,750	4,980	5,650	6,460	1,350	880	2,070
23	463	169	1,510	4,410	3,030	2,750	4,970	5,290	6,250	2,200	700	2,190
24	1,230	521	2,340	4,340	2,770	2,760	4,970	4,900	6,000	1,500	900	2,260
25	1,160	748	2,030	3,890	2,430	2,840	4,620	4,770	5,820	1,110	1,200	2,330
26	1,440	978	2,000	3,490	2,620	3,090	4,390	4,730	5,680	1,700	1,210	2,230
27	1,590	1,110	1,700	3,380	2,470	3,400	4,910	4,710	5,440	1,900	1,150	2,340
28	793	1,490	1,500	3,410	2,350	3,480	5,470	4,960	5,300	1,500	1,060	2,180
29	1,140	1,530	1,500	3,220	-----	3,990	5,820	5,140	4,980	1,150	1,350	2,060
30	1,390	1,230	1,500	3,090	-----	4,030	6,050	5,220	4,600	1,100	1,750	2,240
31	1,300	-----	1,700	3,030	-----	4,060	-----	5,250	-----	1,500	1,950	-----
TOTAL	34,537	35,190	61,050	83,130	76,180	89,980	129,040	168,750	182,770	76,810	36,171	68,830
MEAN	1,114	1,173	1,969	2,682	2,721	2,903	4,301	5,444	6,092	2,478	1,167	2,294
MAX	2,310	1,900	2,480	4,530	3,190	4,060	6,050	6,250	7,340	4,630	1,950	2,750
MIN	104	169	1,500	1,100	2,260	1,620	3,520	4,600	4,600	1,100	678	2,000
AC-FT	68,500	69,800	121,100	164,900	151,100	178,500	256,000	334,700	362,500	152,400	71,750	136,500
CAL YR 1970	TOTAL	447,266	MEAN	1,225	MAX	2,960	MIN	72	AC-FT	887,200		
WTR YR 1971	TOTAL	1,042,438	MEAN	2,856	MAX	7,340	MIN	104	AC-FT	2,068,000		

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 upstream from mouth and 5 miles northeast of Oakley.

DRAINAGE AREA.--16 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--7 years, 25.5 cfs (18,470 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 230 cfs June 18 (gage height, 2.61 ft); maximum gage height, 3.11 ft Dec. 26 (backwater from ice); minimum discharge, 9.1 cfs Oct. 28.

Period of record: Maximum discharge, 259 cfs June 13, 1965 (gage height, 2.73 ft); minimum indicated, 6.2 cfs Feb. 20, 1965.

REMARKS.--Records good except those for winter periods which are fair. No regulation above station; however, some water is diverted to irrigate a few acres of meadowland above the station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	12	10	11	10	12	18	69	66	18	13
2	11	11	12	10	11	10	12	22	69	61	18	13
3	11	11	11	10	11	10	11	30	68	59	18	14
4	11	11	11	10	11	10	12	37	65	55	17	14
5	11	11	11	10	11	10	12	33	68	50	17	13
6	12	11	11	10	11	10	13	30	75	48	17	13
7	11	12	11	10	11	10	14	30	87	45	17	16
8	11	12	11	10	11	10	14	30	110	42	17	14
9	12	12	11	10	11	10	15	30	107	39	16	13
10	12	12	11	10	11	10	17	30	144	37	16	13
11	12	12	10	10	11	9.8	18	31	152	34	16	13
12	12	12	9.5	10	11	9.7	19	36	114	32	15	13
13	12	12	9.5	10	11	9.7	19	43	106	31	15	13
14	12	11	10	10	11	9.7	21	58	123	29	15	13
15	11	11	11	10	11	9.7	23	75	157	28	15	13
16	11	11	11	10	11	9.7	24	79	180	27	15	13
17	11	11	11	10	11	9.7	26	67	202	26	15	13
18	11	11	11	12	11	9.7	25	59	194	25	15	13
19	12	11	10	12	11	9.7	23	54	175	25	14	13
20	11	11	10	12	11	9.7	22	48	177	24	14	13
21	12	11	11	12	10	9.7	21	45	175	23	14	13
22	12	11	11	11	10	9.8	20	46	171	23	14	13
23	12	11	11	11	10	9.9	20	45	169	22	14	13
24	12	12	10	11	10	10	19	46	154	22	14	12
25	12	12	10	11	10	10	19	60	130	21	14	12
26	11	12	10	11	10	11	18	80	113	20	14	12
27	11	12	10	11	10	11	18	110	102	20	14	12
28	13	12	10	11	10	11	17	124	89	19	14	12
29	11	12	10	11	-----	11	17	112	84	19	14	12
30	11	12	10	11	-----	12	17	90	75	19	14	13
31	12	-----	10	11	-----	12	-----	80	-----	18	13	-----
TOTAL	357	344	328.0	328	300	314.5	538	1,678	3,704	1,009	473	390
MEAN	11.5	11.5	10.6	10.6	10.7	10.1	17.9	54.1	123	32.5	15.3	13.0
MAX	13	12	12	12	11	12	26	124	202	66	18	16
MIN	11	11	9.5	10	10	9.7	11	18	65	18	13	12
AC-FT	708	682	651	651	595	624	1,070	3,330	7,350	2,000	938	774

CAL YR 1970 TOTAL 8,360.7 MEAN 22.9 MAX 128 MIN 9.5 AC-FT 16,580

WTR YR 1971 TOTAL 9,763.5 MEAN 26.7 MAX 202 MIN 9.5 AC-FT 19,370

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-28	0500	2.34	137	6-18	0100	2.61	230
6-11	0900	2.45	172				

WEBER RIVER BASIN

185

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 downstream from South Fork, 2.6 miles upstream from Weber-Provo diversion canal, and 3.2 miles northeast of Oakley.

DRAINAGE AREA.--163 sq mi.

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 (from topographic map). Prior to Oct. 25, 1933, staff gage at site 0.2 mile downstream at different datum. Oct. 25, 1933, to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher.

AVERAGE DISCHARGE.--67 years, 221 cfs (160,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,290 cfs June 18 (gage height, 3.91 ft); minimum, 30 cfs Mar. 19.

Period of record: Maximum discharge observed, 4,170 cfs June 13, 1921 (gage height, 9.0 ft, site and datum then in use), from rating curve extended above 2,000 cfs; minimum recorded, 16 cfs Mar. 12, 1941.

REMARKS.--Records good. 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.

REVISIONS(WATER YEARS).--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	67	75	74	77	68	102	272	813	630	151	112
2	64	66	74	74	76	68	102	326	738	580	145	105
3	61	67	79	74	75	68	108	407	690	554	142	119
4	56	67	77	74	74	68	113	448	690	532	143	108
5	56	67	74	74	74	68	122	428	708	500	146	100
6	65	66	82	74	74	68	143	414	738	459	140	93
7	66	77	81	74	74	68	163	419	850	404	143	145
8	62	72	74	74	74	68	167	423	1,090	391	138	120
9	67	72	74	74	74	67	192	409	1,040	369	134	103
10	79	77	73	74	74	66	227	393	1,320	345	127	97
11	69	72	68	74	74	66	250	402	1,290	323	121	93
12	74	74	60	74	74	67	262	464	1,070	299	118	90
13	72	70	52	74	74	68	280	498	1,020	281	116	87
14	69	69	60	74	70	64	307	624	1,230	275	113	85
15	65	70	72	74	70	64	336	806	1,540	264	112	84
16	66	75	72	74	73	65	363	911	1,750	250	109	83
17	65	72	72	74	70	63	386	778	1,910	239	107	82
18	65	66	72	80	71	65	357	636	1,930	243	108	82
19	67	66	72	92	70	60	324	545	1,760	258	103	82
20	67	67	72	105	69	67	307	494	1,700	232	98	80
21	71	67	72	93	67	65	292	462	1,650	223	96	80
22	73	66	72	88	67	64	280	481	1,660	217	99	78
23	69	66	72	86	70	65	277	466	1,610	205	114	77
24	78	69	72	86	74	70	266	474	1,470	192	118	75
25	73	80	72	88	75	68	262	631	1,310	182	119	74
26	69	80	74	82	65	79	255	865	1,210	179	116	74
27	60	77	74	82	69	97	244	1,090	1,080	170	126	74
28	63	75	74	87	68	90	234	1,240	911	164	133	75
29	64	74	74	87	-----	91	229	1,200	839	157	136	74
30	68	77	74	81	-----	106	239	1,080	742	152	124	78
31	69	-----	74	77	-----	115	-----	918	-----	153	118	-----
TOTAL	2,076	2,130	2,239	2,472	2,016	2,236	7,189	19,004	36,359	9,422	3,813	2,709
MEAN	67.0	71.0	72.2	79.7	72.0	72.1	240	613	1,212	304	123	90.3
MAX	79	80	82	105	77	115	386	1,240	1,930	630	151	145
MIN	56	66	52	74	65	60	102	272	690	152	96	74
AC-FT	4,120	4,220	4,440	4,900	4,000	4,440	14,260	37,690	72,120	18,690	7,560	5,370

CAL YR 1970 TOTAL 74,744 MEAN 205 MAX 1,340 MIN 45 AC-FT 148,300
WTR YR 1971 TOTAL 91,665 MEAN 251 MAX 1,930 MIN 52 AC-FT 181,800

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-28	0600	3.01	1,300	6-18	0400	3.91	2,290
6-10	0630	3.12	1,410				

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 downstream from bridge on Alternate U.S. Highway 189, 2.4 miles north of Peoa, and 3.2 miles upstream from Wanship Dam.

DRAINAGE AREA.--285 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,050 ft (from Bureau of Reclamation Rockport Reservoir map).

AVERAGE DISCHARGE.--14 years, 172 cfs (124,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,160 cfs June 18 (gage height, 4.80 ft); minimum, 35 cfs Jan. 3, 13.

Period of record: Maximum discharge, 2,160 cfs June 13, 1965 and June 18, 1971 (gage height, 4.80 ft June 18, 1971); minimum recorded, 7.6 cfs Dec. 28, 1962.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Rockport Reservoir. Records do not include 51,620 acre-ft of water diverted from Weber River basin through Weber-Provo diversion canal. Flow slightly regulated by several small reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	114	105	60	136	88	200	96	762	473	102	107
2	79	111	86	50	136	88	193	99	735	340	110	102
3	78	109	84	50	133	88	193	105	681	331	112	150
4	78	108	84	50	148	100	193	116	708	372	125	145
5	75	110	88	50	105	100	196	116	700	353	133	129
6	84	106	82	50	148	100	153	116	729	311	132	129
7	92	128	78	50	135	100	250	123	709	261	133	235
8	87	136	83	50	141	108	250	142	814	224	124	202
9	91	116	95	50	123	114	272	153	821	221	114	161
10	133	124	96	50	127	107	307	134	1,090	200	104	148
11	110	99	80	50	131	103	338	130	1,250	178	103	138
12	102	108	70	50	123	110	351	123	1,040	172	97	129
13	93	104	70	51	126	123	371	127	926	162	91	121
14	90	87	75	67	127	117	400	166	1,030	161	92	118
15	89	81	80	88	130	111	250	215	1,320	160	95	118
16	86	81	80	118	135	112	145	283	1,430	157	96	115
17	86	79	80	131	125	108	145	215	1,460	156	93	117
18	87	80	80	161	127	114	142	157	1,930	166	90	123
19	86	81	80	187	124	107	130	162	1,830	177	83	125
20	88	80	80	188	118	119	130	157	1,810	165	81	123
21	97	81	80	195	90	112	123	153	1,750	155	84	125
22	116	85	70	162	90	126	127	149	1,720	182	84	123
23	120	95	60	151	90	146	130	149	1,610	209	79	121
24	147	96	60	150	90	208	123	153	1,490	180	78	117
25	136	86	60	144	90	222	116	174	1,290	164	78	116
26	124	119	60	147	90	457	112	191	1,090	148	79	113
27	122	107	60	144	88	629	112	229	1,010	143	80	117
28	111	96	60	144	88	335	105	461	806	136	90	118
29	123	97	60	146	-----	281	102	780	765	132	125	116
30	119	147	60	136	-----	269	99	980	643	124	119	121
31	117	-----	60	136	-----	234	-----	852	-----	110	113	-----
TOTAL	3,126	3,051	2,346	3,256	3,314	5,136	5,758	7,206	33,949	6,423	3,119	3,922
MEAN	101	102	75.7	105	118	166	192	232	1,132	207	101	131
MAX	147	147	105	195	148	629	400	980	1,930	473	133	235
MIN	75	79	60	50	88	88	99	96	643	110	78	102
AC-FT	6,200	6,050	4,650	6,460	6,570	10,190	11,420	14,290	67,340	12,740	6,190	7,780

CAL YR 1970 TOTAL 64,656 MEAN 177 MAX 1,320 MIN 60 AC-FT 128,200
WTR YR 1971 TOTAL 80,606 MEAN 221 MAX 1,930 MIN 50 AC-FT 159,900

WEBER RIVER BASIN

187

10129350 Crandall Creek near Peoa, Utah

LOCATION.--Lat 40°46'30", long 111°21'51", in NE¼NW¼SE¼ sec.34, T.1 N., R.5 E., Summit County, on right bank 1,000 ft upstream from intake to pipeline, 1 mile upstream from county road bridge, 1.2 miles upstream from high-water line of Rockport Reservoir on Weber River, and 3.5 miles northwest of Peoa.

DRAINAGE AREA.--12 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,220 ft above mean sea level (from topographic map).

AVERAGE DISCHARGE.--8 years, 4.72 cfs (3,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 71 cfs May 14 (gage height, 3.07 ft); minimum discharge, no flow Aug. 20.

Period of record: Maximum discharge, 129 cfs May 1, 1965 (gage height, 3.13 ft); maximum gage height, 3.51 ft May 6, 1969; no flow during most of October 1963, Aug. 23, Dec. 28, 1966, Aug. 20, 1971.

REMARKS.--Records good, except those for winter periods, which are fair. Flow affected slightly by a small reservoir near headwaters, which was breached during summer of 1967 (capacity, 30 acre-ft). A pipeline diverts water 1,000 ft downstream from gage to Rockport recreation area. Diversions for irrigation below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.55	.88	.78	1.1	.80	3.9	14	19	4.0	.61	.33
2	.40	.55	.86	.70	1.1	.80	4.1	21	19	3.8	.54	.28
3	.40	.48	.86	.70	1.1	.80	4.1	38	19	3.6	.49	.62
4	.40	.62	.85	.70	1.5	.80	4.4	36	17	3.5	.51	.62
5	.40	.55	.85	.70	1.9	.80	5.0	22	15	3.2	.60	.39
6	.51	.55	.85	.70	2.4	.80	7.1	22	14	2.9	1.2	.31
7	.62	.78	.85	.70	2.3	.90	8.0	30	13	2.8	.83	1.1
8	.52	.70	.85	.70	2.5	.90	8.2	29	13	2.7	.76	.59
9	.58	.70	.85	.80	3.1	.90	9.7	27	13	2.4	.66	.41
10	.89	.86	.85	.90	1.7	.90	13	27	12	2.2	.49	.32
11	.65	.62	.86	.90	.94	.94	13	28	16	2.1	.41	.29
12	.61	.78	.87	.80	1.0	1.0	13	36	12	2.0	.34	.27
13	.57	.70	.88	.80	1.0	1.1	15	40	11	1.7	.32	.25
14	.51	.42	.90	.80	1.1	1.1	16	48	9.8	1.7	.27	.23
15	.42	.70	.92	.80	1.2	.99	22	48	8.6	1.5	.25	.25
16	.42	.70	.93	1.2	1.2	1.1	26	42	7.5	1.5	.26	.27
17	.42	.70	.94	2.4	1.2	1.1	24	28	6.7	1.4	.22	.29
18	.42	.70	.94	2.4	1.1	1.4	18	21	6.0	1.3	.25	.34
19	.48	.70	.94	2.4	1.1	1.8	13	19	5.6	1.3	.25	.37
20	.48	.78	.94	2.4	1.1	1.9	11	19	6.3	1.6	.22	.37
21	.62	.70	.94	2.4	1.1	1.6	10	20	6.4	1.4	.22	.39
22	.78	.62	.86	1.9	1.1	1.6	9.7	21	5.9	1.4	.22	.42
23	.70	.70	.78	1.7	1.1	2.1	9.4	23	4.8	1.4	.58	.42
24	.94	.94	.78	1.4	1.1	3.0	9.7	22	4.5	1.3	.31	.42
25	.70	1.2	.86	1.2	1.1	2.4	9.6	22	4.4	1.1	.26	.40
26	.55	1.1	.86	1.1	1.0	5.0	9.2	22	4.3	.95	.28	.45
27	.62	1.0	.86	1.0	1.0	4.7	8.3	23	5.2	.86	.25	.51
28	.48	1.0	.94	1.2	1.0	3.7	7.8	23	4.7	.80	.37	.48
29	.86	.94	.86	1.4	-----	3.8	7.7	22	4.9	.80	.89	.45
30	.70	.90	.78	1.2	-----	5.1	9.3	22	4.6	.71	.72	.52
31	.62	-----	.86	1.0	-----	5.6	-----	21	-----	.63	.45	-----
TOTAL	17.65	22.24	27.05	37.78	38.14	59.43	329.2	836	293.2	58.55	35.81	12.36
MEAN	.57	.74	.87	1.22	1.36	1.92	11.0	27.0	9.77	1.89	1.16	.41
MAX	.94	1.2	.94	2.4	3.1	5.6	26	48	19	4.0	.22	1.1
MIN	.38	.42	.78	.70	.94	.80	3.9	14	4.3	.63	.22	.23
AC-FT	35	44	54	75	76	118	653	1,660	582	116	71	25
CAL YR 1970	TOTAL 1,153.45	MEAN 3.16	MAX 48	MIN .12	AC-FT 2,290							
WTR YR 1971	TOTAL 1,767.41	MEAN 4.84	MAX 48	MIN .22	AC-FT 3,510							

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-15	1900	2.54	36	5-14	1900	3.07	71
5-03	1800	3.04	69				

WEBER RIVER BASIN

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 south of Wanship and 1.2 miles upstream from Silver Creek.

DRAINAGE AREA.--320 sq mi, 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, 64,250 acre-ft June 25 (elevation, 6,040.1 ft); minimum observed, 19,440 acre-ft Mar. 22, 23 (elevation, 5,986.4 ft).

Period of record: Maximum contents observed, 65,030 acre-ft June 24, 27, 28, 1967; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959 (elevation, 5,931.2 ft).

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 between elevation 5,930 (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage 1,260 acre-ft below elevation 5,930 ft. 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)

5,985	18,640	6,020	44,110
5,990	21,580	6,025	48,720
5,995	24,730	6,030	53,600
6,000	28,150	6,035	58,730
6,005	31,800	6,040	64,140
6,010	35,660	6,040.1	64,250
6,015	39,760		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40,010	35,820	31,730	26,480	23,500	21,270	23,120	26,340	32,630	62,820	52,800	47,590
2	39,760	35,660	31,650	26,270	23,570	21,150	23,310	26,200	33,860	62,380	52,400	47,400
3	39,590	35,580	31,430	26,000	23,570	20,970	23,380	26,140	35,030	62,050	52,010	47,310
4	39,340	35,430	31,280	25,730	23,310	20,970	23,500	26,140	36,060	62,050	51,710	47,220
5	39,170	35,270	31,200	25,460	23,310	20,910	23,500	26,070	37,110	62,050	51,420	47,120
6	39,000	35,190	31,050	25,200	23,310	20,790	23,700	26,000	38,250	61,830	51,130	47,120
7	38,830	35,030	30,830	25,000	23,120	20,670	23,820	26,000	39,340	61,620	50,840	47,120
8	38,670	35,030	30,610	24,800	23,000	20,610	24,080	25,930	40,430	61,290	50,840	47,310
9	38,500	34,950	30,390	24,600	22,870	20,500	24,340	26,070	41,640	60,970	50,840	47,400
10	38,420	34,790	30,240	24,410	22,810	20,380	24,600	26,070	43,130	60,650	50,640	47,400
11	38,340	34,720	30,020	24,280	22,750	20,320	25,000	26,070	45,100	60,220	50,640	47,310
12	38,170	34,640	29,880	24,080	22,680	20,260	25,400	26,070	47,500	59,900	50,450	47,220
13	38,010	34,560	29,580	23,820	22,620	20,200	25,930	26,070	49,200	59,470	50,350	47,220
14	37,930	34,400	29,440	23,630	22,560	20,140	26,410	26,070	50,930	59,050	50,160	47,220
15	37,760	34,250	29,370	23,440	22,560	20,030	27,030	26,200	53,100	58,620	50,060	47,030
16	37,600	33,940	29,300	23,440	22,500	19,970	27,100	26,340	55,010	58,200	49,970	46,940
17	37,430	33,780	29,150	23,310	22,440	19,910	27,100	26,680	56,230	57,890	49,870	46,840
18	37,190	33,630	29,080	23,310	22,370	19,790	27,100	26,750	57,680	57,370	49,680	46,660
19	37,110	33,400	28,930	23,380	22,310	19,620	27,030	26,750	59,050	57,060	49,480	46,570
20	36,950	33,170	28,720	23,500	22,250	19,560	27,030	26,820	60,540	56,750	49,290	46,570
21	36,790	33,090	28,580	23,570	22,130	19,500	26,960	26,820	61,830	56,330	49,100	46,480
22	36,620	32,860	28,430	23,630	22,000	19,440	26,960	26,820	63,040	55,920	48,910	46,380
23	36,540	32,710	28,290	23,630	21,940	19,440	26,960	26,820	63,810	55,620	48,720	46,290
24	36,460	32,480	28,080	23,630	21,820	19,500	26,890	26,820	64,140	55,310	48,530	46,290
25	36,460	32,330	27,870	23,700	21,760	19,620	26,890	26,820	64,250	55,010	48,340	46,200
26	36,380	32,250	27,730	23,700	21,640	19,910	26,750	26,890	64,030	54,600	48,250	46,110
27	36,300	32,180	27,450	23,630	21,450	20,970	26,680	26,890	63,700	54,300	48,060	45,920
28	36,220	32,100	27,310	23,630	21,330	21,880	26,620	27,170	63,480	54,000	47,870	45,830
29	36,140	31,950	27,100	23,570	-----	22,310	26,550	28,010	63,150	53,700	47,780	45,740
30	35,980	31,800	26,890	23,570	-----	22,680	26,410	29,510	62,930	53,400	47,680	45,560
31	35,820	-----	26,680	23,570	-----	23,000	-----	31,280	-----	53,100	47,590	-----
MAX	40,010	35,820	31,730	26,480	23,570	23,000	27,100	31,280	64,250	62,820	52,800	47,590
MIN	35,820	31,800	26,680	23,310	21,330	19,440	23,120	25,930	32,630	53,100	47,590	45,560
(+)	6,010.2	6,005.0	6,097.9	5,993.2	5,989.6	5,992.3	5,997.5	6,004.3	6,038.9	6,029.5	6,023.8	6,021.6
(*)	-4,360	-4,020	-5,120	-3,110	-2,240	+1,670	+3,410	+4,870	+31,650	-9,830	-5,510	-2,030

CAL YR 1970..... * +130

WTR YR 1971..... * +5,380

+ Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

WEBER RIVER BASIN

189

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 upstream from high-water line of Echo Reservoir, 1.5 miles south of Coalville, 3 miles upstream from Chalk Creek, and 6 miles downstream from Silver Creek.

DRAINAGE AREA.--438 sq mi.

PERIOD OF RECORD.--April 1927 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft (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.--40 years (1931-71), 195 cfs (141,300 acre-ft per year), since completion of Weber-Provo diversion canal.

EXTREMES.--Current year: Maximum discharge, 1,690 cfs June 24 (gage height, 4.50 ft); minimum, 60 cfs Dec. 3.

Period of record: Maximum discharge, 2,190 cfs May 6, 1952; maximum gage height, 5.08 ft (present datum) May 29, 1951; minimum discharge, 6 cfs Sept. 20, 1934.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include 48,730 acre-ft of water diverted from Weber River basin through Weber-Provo diversion canal. Flow slightly 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 CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	191	202	185	180	180	215	205	156	644	265	162
2	166	192	198	182	180	181	213	209	149	497	266	155
3	168	190	172	177	180	180	215	219	151	376	266	167
4	170	190	196	208	180	180	215	210	152	345	278	168
5	175	191	196	227	180	179	217	211	148	380	262	170
6	182	191	196	225	180	179	224	211	147	381	264	167
7	183	198	194	240	180	181	229	218	148	392	213	178
8	183	199	194	210	180	180	229	218	144	363	157	179
9	191	196	197	183	185	180	231	218	146	340	160	175
10	204	199	196	185	190	181	234	215	144	344	158	174
11	194	196	192	180	190	181	233	214	161	336	156	170
12	189	199	189	180	190	186	228	212	143	333	157	168
13	187	198	185	179	190	189	228	205	139	332	156	167
14	185	195	187	177	190	184	229	208	138	333	155	168
15	185	192	189	178	190	184	232	209	259	332	153	166
16	185	193	187	178	190	183	234	214	786	332	148	164
17	185	192	190	185	190	183	230	209	1,230	337	145	168
18	186	193	189	190	189	180	224	204	1,320	322	148	171
19	188	192	194	196	188	180	217	203	1,220	326	147	170
20	188	190	216	220	187	180	214	191	1,130	318	141	169
21	189	192	188	210	184	181	211	182	1,140	323	151	170
22	194	193	188	190	185	184	212	175	1,310	333	151	169
23	183	193	187	180	184	188	212	169	1,520	327	153	166
24	198	196	208	180	182	205	211	157	1,630	326	151	166
25	197	198	202	180	182	219	208	147	1,590	328	157	160
26	195	205	204	180	180	275	207	142	1,360	291	160	161
27	193	200	185	180	182	351	212	144	1,190	257	168	161
28	191	196	186	180	179	272	208	143	1,020	257	173	159
29	191	195	186	180	-----	253	205	146	898	257	183	159
30	191	209	185	180	-----	264	204	154	736	240	170	162
31	192	-----	185	180	-----	256	-----	157	-----	261	163	-----
TOTAL	5,771	5,854	5,963	5,905	5,167	6,279	6,581	5,919	20,405	10,563	5,575	5,009
MEAN	186	195	192	190	185	203	219	191	680	341	180	167
MAX	204	209	216	240	190	351	234	219	1,630	644	278	179
MIN	163	190	172	177	179	179	204	142	138	240	141	155
AC-FT	11,450	11,610	11,830	11,710	10,250	12,450	13,050	11,740	40,470	20,950	11,060	9,940

CAL YR 1970 TOTAL 70,131 MEAN 192 MAX 772 MIN 39 AC-FT 139,100
WTR YR 1971 TOTAL 88,991 MEAN 244 MAX 1,630 MIN 138 AC-FT 176,500

WEBER RIVER BASIN

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 upstream from bridge on State Highway 133, about 800 ft upstream from mouth and 15 miles east of Coalville.

DRAINAGE AREA.--35 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,703.23 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 33.7 cfs (24,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 315 cfs May 27 (gage height, 3.21 ft); minimum, 5.5 cfs Feb. 21.

Period of record: Maximum discharge, 330 cfs June 5, 1968 (gage height, 3.65 ft); minimum recorded, 2.1 cfs 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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	11	10	10	6.0	17	34	154	102	28	26
2	11	9.0	11	9.4	9.8	6.0	15	44	139	96	27	25
3	9.3	9.0	11	8.6	9.4	6.0	13	70	135	89	27	29
4	9.4	9.0	11	8.6	8.0	6.0	13	66	135	86	27	28
5	9.5	9.0	11	8.6	8.0	6.0	14	60	135	82	37	27
6	12	9.9	11	8.6	8.6	6.0	15	55	144	76	37	25
7	12	11	11	8.6	9.0	6.0	17	56	162	73	36	38
8	11	11	11	9.0	9.0	6.0	17	58	172	69	34	28
9	12	11	10	9.4	9.0	6.0	20	61	169	66	33	26
10	14	11	9.0	9.6	9.0	6.0	24	60	179	63	33	25
11	12	12	9.0	10	9.0	6.4	27	70	184	60	32	24
12	12	11	9.0	10	9.0	6.8	27	80	152	57	31	24
13	12	11	9.0	10	9.0	7.2	29	105	154	54	30	23
14	11	10	9.4	10	9.0	7.8	33	130	169	51	29	23
15	11	10	11	11	9.0	8.2	36	163	184	49	29	22
16	12	10	11	12	9.0	8.2	37	157	184	48	29	14
17	11	10	11	13	9.0	8.3	37	110	186	47	28	13
18	11	9.0	11	14	9.0	7.4	33	89	185	46	28	13
19	10	8.3	11	14	8.4	7.4	28	78	172	45	28	13
20	9.7	7.5	11	14	7.4	7.4	25	77	159	44	28	13
21	11	8.6	11	14	7.0	7.4	23	84	152	41	28	13
22	11	10	11	12	7.0	8.1	21	96	147	40	29	13
23	11	10	11	11	7.0	8.3	21	82	139	39	28	13
24	11	10	11	11	7.0	9.0	21	112	130	38	27	13
25	10	10	11	11	7.0	8.9	22	135	123	36	27	12
26	9.4	10	11	11	6.4	13	21	200	118	36	27	12
27	9.0	10	11	11	6.0	16	23	221	118	35	26	12
28	9.0	10	11	10	6.0	13	26	240	116	34	28	12
29	9.0	10	11	10	-----	13	25	213	116	32	29	12
30	10	10	11	10	-----	15	28	177	105	30	28	13
31	10	-----	11	10	-----	16	-----	159	-----	30	28	-----
TOTAL	333.3	297.3	330.4	329.4	231.0	262.8	708	3,342	4,517	1,694	916	584
MEAN	10.8	9.91	10.7	10.6	8.25	8.48	23.6	108	151	54.6	29.5	19.5
MAX	14	12	11	14	10	16	37	240	186	102	37	38
MIN	9.0	7.5	9.0	8.6	6.0	6.0	13	34	105	30	26	12
AC-FT	661	590	655	653	458	521	1,400	6,630	8,960	3,360	1,820	1,160

CAL YR 1970 TOTAL 11,375.7 MEAN 31.2 MAX 162 MIN 7.5 AC-FT 22,560
WTR YR 1971 TOTAL 13,545.2 MEAN 37.1 MAX 240 MIN 6.0 AC-FT 26,870

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-14	2300	2.89	210	6-09	2000	2.78	213
5-27	2300	3.21	315	6-17	2100	2.83	213

WEBER RIVER BASIN

191

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 downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mile upstream from mouth.

DRAINAGE AREA.--253 sq mi.

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 above mean sea level. Prior to Feb. 13, 1931, non-recording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum.

AVERAGE DISCHARGE.--44 years, 60.9 cfs (44,120 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 600 cfs May 16 (gage height, 2.24 ft); minimum, 2.9 cfs Mar. 19.

Period of record: Maximum discharge, 1,540 cfs Apr. 28, 1952 (gage height, 4.67 ft); minimum, less than 1 cfs 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).

REVISIONS (WATER YEARS).--WSP 1564: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	33	42	30	47	27	107	165	413	148	25	45
2	25	30	37	29	48	24	92	224	367	142	24	49
3	22	27	31	26	43	30	93	292	352	128	23	55
4	20	27	37	24	18	32	92	352	343	126	23	58
5	22	35	45	24	41	26	93	311	333	124	22	55
6	25	31	27	23	25	26	107	282	331	110	23	52
7	30	37	29	22	33	25	126	292	333	103	27	70
8	30	42	41	23	33	28	115	308	355	98	29	77
9	29	36	37	25	32	28	120	318	344	93	29	58
10	39	40	35	27	41	30	143	311	366	86	28	52
11	39	38	17	28	45	28	158	318	414	86	28	48
12	36	44	17	29	37	34	147	370	386	81	29	48
13	37	41	14	28	42	42	146	424	338	79	23	48
14	35	27	24	28	43	34	155	469	338	71	21	46
15	31	23	30	28	44	33	174	531	346	65	21	43
16	30	33	31	29	39	29	195	563	344	64	22	39
17	30	33	29	31	41	32	210	511	333	55	23	34
18	31	37	28	40	43	29	206	402	325	46	23	32
19	31	32	22	57	36	27	182	349	305	48	22	32
20	31	26	25	59	32	31	182	322	281	47	23	31
21	31	37	32	43	24	37	166	315	252	47	22	31
22	33	34	33	42	26	42	155	346	227	45	23	31
23	37	35	29	47	29	46	151	322	219	47	23	31
24	39	38	26	53	36	66	170	312	204	48	23	31
25	39	48	27	57	31	70	160	383	192	47	23	30
26	30	58	26	56	23	137	164	418	182	41	27	29
27	32	49	29	48	21	340	162	475	176	31	29	28
28	25	44	30	41	28	220	154	500	174	28	30	28
29	34	40	29	40	-----	165	142	477	162	28	40	28
30	33	51	29	48	-----	182	144	503	152	27	46	28
31	35	-----	29	48	-----	211	-----	453	-----	26	52	-----
TOTAL	968	1,106	917	1,133	981	2,111	4,411	11,618	8,887	2,215	826	1,267
MEAN	31.2	36.9	29.6	36.5	35.0	68.1	147	375	296	71.5	26.6	42.2
MAX	39	58	45	59	48	340	210	563	414	148	52	77
MIN	20	23	14	22	18	24	92	165	152	26	21	28
AC-FT	1,920	2,190	1,820	2,250	1,950	4,190	8,750	23,040	17,630	4,390	1,640	2,510

CAL YR 1970	TOTAL 26,357	MEAN 72.2	MAX 510	MIN 11	AC-FT 52,280
WTR YR 1971	TOTAL 36,440	MEAN 99.8	MAX 563	MIN 14	AC-FT 72,280

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-27	0600	1.90	432	5-28	0600	2.11	539
5-16	1800	2.24	600	6-11	1900	1.89	450

WEBER RIVER BASIN

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 southeast of Echo.

DRAINAGE AREA.--732 sq mi.

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Staff gage 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, 74,540 acre-ft July 1 (elevation, 5,560.4 ft); minimum, 32,620 acre-ft Oct. 5, 6 (elevation, 5,526.5 ft).

Period of record: Maximum contents, 75,280 acre-ft 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 between elevations 5,450 (bottom of outlet tunnel) and 5,560 ft (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)

5,525	31,180	5,550	59,880
5,530	36,100	5,555	66,740
5,535	41,440	5,560	73,940
5,540	47,200	5,561	75,420
5,545	53,360		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32,910	39,040	47,920	56,450	62,310	61,760	59,880	60,010	70,440	74,540	58,550	38,180
2	32,810	39,250	48,280	56,840	62,310	61,760	58,410	59,480	71,160	74,240	58,020	38,400
3	32,710	39,470	48,520	56,970	62,580	61,760	56,710	59,080	71,850	74,090	57,230	38,400
4	32,710	39,790	48,770	57,230	62,580	61,760	55,410	58,940	72,470	73,360	56,710	38,610
5	32,620	40,010	49,130	57,490	62,580	61,630	53,740	59,080	73,060	72,920	56,190	38,720
6	32,620	40,330	49,380	57,760	62,580	61,630	52,980	59,610	73,360	72,470	55,410	38,820
7	32,710	40,560	49,620	58,020	62,580	61,490	52,860	60,010	73,650	72,040	54,890	39,040
8	32,710	40,880	49,950	58,150	62,440	61,490	52,860	60,550	73,940	71,600	54,120	39,140
9	32,710	41,220	50,240	58,410	62,440	61,490	53,230	61,220	73,940	71,020	53,490	39,250
10	32,910	41,550	50,610	58,810	62,440	61,490	53,870	62,040	73,940	70,300	52,860	39,250
11	33,000	41,880	50,850	59,080	62,440	61,490	54,760	62,580	73,940	69,580	52,220	39,250
12	33,100	42,110	51,100	59,480	62,440	61,490	55,410	63,400	74,090	69,150	51,600	39,140
13	33,100	42,440	51,350	59,880	62,310	61,490	56,190	63,680	73,940	68,580	50,730	38,820
14	33,100	42,780	51,600	60,150	62,310	61,490	56,970	63,680	73,800	68,010	49,870	38,610
15	33,200	43,010	51,850	60,420	62,310	61,490	57,760	63,820	73,800	67,440	48,890	38,400
16	33,500	43,350	52,220	60,820	62,310	61,490	58,550	64,090	73,800	66,880	48,280	38,180
17	33,890	43,690	52,480	60,950	62,310	61,490	59,340	64,510	73,210	66,320	47,440	37,870
18	34,080	43,920	52,860	60,950	62,440	61,490	60,420	64,510	73,360	65,900	46,440	37,760
19	34,480	44,150	53,110	61,220	62,440	61,490	61,220	64,510	73,650	65,340	45,540	37,550
20	34,680	44,500	53,360	61,220	62,310	61,360	62,040	64,230	73,940	65,060	44,610	37,340
21	34,980	44,730	53,620	61,490	62,310	61,220	62,310	63,950	73,650	64,510	43,810	37,240
22	35,290	45,080	53,870	61,490	62,170	61,220	62,310	63,680	73,360	64,230	42,900	37,130
23	35,700	45,310	54,120	61,630	62,170	61,220	62,040	62,990	73,650	63,680	42,110	37,030
24	35,900	45,540	54,380	61,630	62,040	61,220	62,040	62,860	74,090	63,400	41,330	36,930
25	36,310	45,900	54,640	61,760	62,040	61,490	62,040	63,680	74,240	62,860	40,560	36,720
26	36,720	46,370	54,890	61,760	62,040	61,490	62,040	64,510	73,940	62,580	39,900	36,620
27	37,130	46,720	55,150	62,040	62,040	62,040	62,040	65,620	74,090	61,900	39,360	36,520
28	37,550	46,960	55,410	62,040	61,760	62,580	62,310	66,600	74,240	61,220	38,820	36,310
29	37,970	47,320	55,670	62,040	-----	62,310	62,040	67,590	74,090	60,680	38,290	36,310
30	38,400	47,680	55,920	62,170	-----	62,040	60,950	68,720	74,390	59,880	38,180	36,200
31	38,720	-----	56,190	62,310	-----	61,360	-----	69,580	-----	59,210	38,180	-----
MAX	38,720	47,680	56,150	62,310	62,580	62,580	62,310	69,580	74,390	74,540	58,550	39,250
MIN	32,620	39,040	47,920	56,450	61,760	61,220	52,860	58,940	70,440	59,210	38,180	36,200
(+)	5,532.5	5,540.4	5,547.2	5,551.8	5,551.4	5,551.1	5,550.8	5,557.0	5,560.3	5,549.5	5,532.0	5,530.1
(+)	+5,720	+8,960	+8,510	+6,120	-550	-400	-410	+8,630	+4,810	-15,180	-21,030	-1,980

CAL YR 1970..... † +15,860

WTR YR 1971..... † + 3,200

† Elevation in feet, at end of month.

‡ Change in contents, in acre-feet.

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 upstream from Hell Canyon and 10 miles northeast of Croydon.

DRAINAGE AREA.--120 sq mi, approximately.

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

GAGE.--Tape gage read once or twice a week. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 20,370 acre-ft June 7 (elevation, 6,006.0 ft); minimum contents observed, 10,250 acre-ft May 3.

Period of record: Maximum contents, 20,820 acre-ft, May 12, 13, 18 (elevation, 6,007.2 ft). Minimum since original filling of reservoir, 8,670 acre-ft, 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 at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevations 5,835.0 (streambed at dam axis) and 5,912.3 ft (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)

5,973	10,020	5,995	16,510
5,975	10,540	6,000	18,220
5,980	11,910	6,005	20,010
5,985	13,350	6,007	20,740
5,990	14,890		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					13,410	13,770	13,960	10,380	20,370		17,620	15,920
2		13,060										
3								10,250				
4				12,850								
5	13,320						13,650	11,080		19,570	17,450	
6							13,470	11,350				15,720
7			12,970				13,180	11,770	20,370			
8					13,530	13,770				19,460		
9		13,030									17,320	
10							12,940	12,910				
11				12,850								
12	13,230						12,680			19,320	17,110	
13												15,370
14			12,940				12,420		20,150			
15					13,590	13,800				19,170		
16		12,970									16,870	
17								16,510				
18												
19	13,180						12,130			18,710	16,680	
20				13,180								14,950
21			12,910					18,010	20,230			
22					13,680	13,840				19,400		
23		12,940									16,510	
24								18,820	20,190			
25				13,320								
26	13,150						11,050			18,010		
27								19,420				14,580
28			12,910		13,740				19,940	17,940		
29					-----							
30		13,000			-----	13,870	10,440		19,820		16,110	a 14,430
31	13,090	-----	12,910	13,410	-----	13,930	-----	20,260	-----	17,760	a 16,050	-----
(+)	5,984.1	5,983.8	5,983.5	5,985.2	5,986.3	5,986.9	5,974.6	6,005.7	6,004.5	5,998.7	-----	-----
(+)	-290	-90	-90	+500	+330	+190	-3,490	+9,820	-440	-2,060	-1,710	-1,620

CAL YR 1970.....# +60

WTR YR 1971.....# +1,050

† Elevation, in feet, at end of month.

Change in contents, in acre-feet.

a No gage-height reading; contents interpolated

WEBER RIVER BASIN

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 upstream from Threemile Creek Reservoir, 0.9 mile southwest from the Hi Ute Ranch road junction with U.S. Highway 40, 1.1 miles upstream from mouth, and 5.5 miles northwest of Park City.

DRAINAGE AREA.--2.68 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,490 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 2.04 cfs (1,480 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7.5 cfs May 17 (gage height, 0.87 ft); maximum gage height, 1.11 ft Feb. 23 (backwater from ice); minimum, 0.72 cfs Feb. 3.

Period of record: Maximum discharge, 15 cfs May 21, 1967 (gage height, 1.08 ft); minimum, 0.3 cfs Apr. 6, 8, 14, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.2	1.1	1.1	1.1	1.2	2.2	5.6	6.2	4.0	2.3	1.7
2	1.5	1.2	1.1	1.1	1.1	1.3	2.2	6.3	6.0	3.9	2.2	1.8
3	1.5	1.2	1.1	1.1	1.1	1.2	2.2	6.7	5.9	3.8	2.2	1.9
4	1.5	1.1	1.1	1.0	1.1	1.2	2.3	7.1	5.8	3.6	2.2	1.8
5	1.5	1.2	1.1	1.0	1.1	1.2	2.5	6.9	5.7	3.6	2.1	1.8
6	1.6	1.2	1.1	1.0	1.1	1.2	2.8	6.8	5.6	3.5	2.2	1.7
7	1.5	1.3	1.1	1.0	1.1	1.2	3.3	6.7	5.5	3.4	2.1	2.0
8	1.4	1.2	1.1	1.0	1.1	1.2	3.3	6.5	5.6	3.3	2.1	1.8
9	1.5	1.2	1.2	1.1	1.1	1.2	3.5	6.4	5.6	3.3	2.1	1.7
10	1.5	1.3	1.1	1.1	1.1	1.2	4.2	6.4	5.7	3.2	2.0	1.7
11	1.4	1.2	1.1	1.1	1.1	1.2	5.1	6.5	6.1	3.1	2.0	1.7
12	1.4	1.2	1.1	1.1	1.1	1.2	5.6	6.8	5.7	3.1	2.0	1.7
13	1.4	1.2	1.1	1.1	1.1	1.2	5.6	7.1	5.6	3.0	2.1	1.6
14	1.4	1.2	1.1	1.0	1.1	1.2	6.0	7.4	5.4	3.0	2.1	1.6
15	1.4	1.1	1.1	.98	1.2	1.2	6.0	6.2	5.4	2.9	2.0	1.6
16	1.4	1.1	1.1	.99	1.1	1.1	6.3	5.7	5.3	3.0	2.0	1.6
17	1.4	1.1	1.2	1.1	1.1	1.2	6.0	5.8	5.2	2.9	2.0	1.6
18	1.4	1.2	1.1	1.3	1.1	1.2	5.7	7.3	5.2	2.7	2.0	1.6
19	1.3	1.1	1.1	1.2	1.2	1.2	5.9	7.0	5.1	2.7	1.9	1.5
20	1.3	1.4	1.1	1.1	1.1	1.2	5.6	5.9	5.0	2.6	1.9	1.5
21	1.4	1.1	1.1	1.1	1.1	1.2	5.3	5.1	4.7	2.6	1.8	1.5
22	1.5	1.1	1.1	1.1	1.1	1.2	5.7	5.2	4.8	2.5	1.9	1.5
23	1.4	1.1	1.1	1.1	1.1	1.3	6.1	5.2	4.8	2.5	1.8	1.5
24	1.5	1.2	1.1	1.1	1.2	1.5	6.1	5.9	4.8	2.5	1.8	1.5
25	1.4	1.3	1.1	1.1	1.1	1.4	6.0	5.7	4.7	2.4	1.8	1.5
26	1.4	1.3	1.1	1.1	1.1	1.6	5.7	5.9	4.5	2.4	1.8	1.5
27	1.4	1.2	1.1	1.1	1.1	1.7	5.7	5.9	4.5	2.3	1.8	1.5
28	1.6	1.2	1.1	1.1	1.2	1.7	5.7	6.0	4.3	2.3	2.0	1.5
29	1.2	1.2	1.1	1.1	-----	1.6	5.9	6.1	4.1	2.3	2.0	1.5
30	1.2	1.3	1.1	1.1	-----	1.8	5.6	6.4	4.1	2.3	1.8	1.6
31	1.2	-----	1.1	1.1	-----	2.3	-----	6.3	-----	2.3	1.7	-----
TOTAL	44.0	35.9	34.3	33.57	31.2	41.3	144.1	194.8	156.9	91.0	61.7	49.0
MEAN	1.42	1.20	1.11	1.08	1.11	1.33	4.80	6.28	5.23	2.94	1.99	1.63
MAX	1.6	1.4	1.2	1.3	1.2	2.3	6.3	7.4	6.2	4.0	2.3	2.0
MIN	1.2	1.1	1.1	.98	1.1	1.1	2.2	5.1	4.1	2.3	1.7	1.5
AC-FT	87	71	68	67	62	82	286	386	311	181	122	97

CAL YR 1970 TOTAL 757.37 MEAN 2.08 MAX 7.4 MIN .98 AC-FT 1,500
WTR YR 1971 TOTAL 917.77 MEAN 2.51 MAX 7.4 MIN .98 AC-FT 1,820

PEAK DISCHARGE (BASE, 4.0 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-17	2100	0.87	7.5	6-11	1000	0.83	6.8
5-30	1900	.83	6.6				

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 southeast of Morgan.

DRAINAGE AREA.--155 sq mi, 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 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 June 12 (elevation, 5,705.8 ft); minimum observed, 34,050 acre-ft Oct. 3 (elevation, 5,682.4 ft).

Period of record: Maximum contents, 48,730 acre-ft June 1, 1968, May 24, 1969; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam (capacity, 3,850 acre-ft), which was raised 25 ft in 1900 (capacity, 9,000 acre-ft), raised 12 ft more in 1902 (capacity, 14,000 acre-ft), was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (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 between elevations 5,577.0 and 5,705.0 ft. Dead storage, 3,090 acre-ft. 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)

5,682	33,830	5,700	44,760
5,685	35,530	5,705	48,110
5,690	38,470	5,706	48,800
5,696	41,550		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								41,800				
2				38,650						48,320		
3	34,050						40,730					
4												36,630
5			37,390						48,350			
6					39,620	38,950					42,690	
7		35,530						42,500				
8												
9				38,830						48,250		
10	34,110						41,240					35,590
11												
12			37,820						48,660			
13					39,310	38,710						
14		35,990									41,110	
15								43,460				
16	34,620			39,070						47,500		
17							41,930					
18												34,790
19			38,230						48,520			
20					39,130	38,350						
21		36,340									39,500	
22								45,420				
23	34,660			35,440						45,820		
24							42,050					34,450
25												
26			38,290						48,390			
27					38,950	38,180						
28		36,810			^a 38,950						38,180	
29					-----			46,820				
30		^a 36,980		39,500	-----	^a 41,840		^a 48,340			^a 34,520	
31	35,240	-----	^a 38,550	^a 39,520	-----	^a 39,640	-----	^a 47,270	-----	44,240	^a 37,520	-----
(+)	5,684.5	-----	-----	-----	-----	-----	-----	-----	-----	5,699.2	-----	-----
(*)	+1,160	+1,740	+1,570	+970	-570	+690	+2,200	+5,430	+1,070	-4,100	-6,720	-3,000

CAL YR 1970..... * +3,380

WTR YR 1971..... * + 440

+ Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

^a No gage-height reading; contents interpolated.

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 downstream from East Canyon Dam, 2.5 miles upstream from Sheep Canyon, and 9 miles southeast of Morgan.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

AVERAGE DISCHARGE.--40 years, 49.7 cfs (36,010 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 158 cfs Apr. 7 (gage height, 1.16 ft); minimum, 7.1 cfs Oct. 22.
Period of record: Maximum discharge, 872 cfs May 4, 1952 (gage height, 3.49 ft); minimum daily, 0.2 cfs Dec. 19, 20, 1964.

REVISIONS.--WSP 1634: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	8.4	9.3	10	49	59	97	138	25	62	126	120
2	22	8.4	9.2	10	49	59	97	130	25	60	126	120
3	14	8.4	9.1	9.9	49	59	135	130	28	57	126	120
4	9.1	8.4	9.1	9.7	49	59	152	131	50	55	126	105
5	9.1	8.4	9.1	9.7	49	59	152	131	76	53	126	97
6	9.1	8.4	9.1	9.7	57	59	153	131	94	51	126	97
7	8.6	8.5	9.2	9.7	61	58	154	132	104	49	125	96
8	7.8	8.4	9.7	9.7	61	58	154	132	110	47	125	96
9	7.8	8.4	9.7	9.7	61	58	154	132	116	45	125	96
10	8.4	8.5	9.7	9.7	62	58	154	132	120	70	125	96
11	8.0	8.4	9.6	9.7	62	58	154	132	131	75	125	84
12	8.4	8.5	9.1	9.7	62	58	154	132	144	73	125	77
13	8.4	9.0	9.1	9.7	62	58	154	132	139	79	125	77
14	8.4	9.1	9.1	9.7	62	58	154	132	132	98	124	77
15	8.4	9.1	9.1	9.7	62	58	154	73	122	98	124	75
16	8.4	9.1	9.1	28	62	58	155	51	115	115	124	76
17	8.3	9.1	9.1	39	62	58	155	50	112	126	124	76
18	8.4	9.1	9.7	39	62	58	155	50	109	126	124	54
19	8.4	9.1	9.7	39	62	58	155	50	103	126	124	47
20	8.0	9.1	9.7	39	62	83	154	51	98	126	124	47
21	7.8	9.1	9.7	39	60	95	154	51	94	126	124	47
22	8.1	9.1	9.9	39	60	95	154	52	92	125	122	47
23	7.8	9.1	9.7	46	60	95	154	52	87	125	122	47
24	8.4	9.1	9.7	50	60	95	154	52	82	125	122	47
25	8.0	9.6	9.7	50	60	95	156	52	77	125	122	33
26	7.8	9.7	9.7	50	61	96	156	45	73	125	123	28
27	7.8	9.7	9.7	50	60	96	156	25	68	124	123	28
28	7.8	9.6	9.7	50	59	96	155	25	68	124	122	28
29	7.8	9.1	9.8	50	-----	96	154	25	66	125	122	28
30	8.4	9.7	9.7	50	-----	96	154	25	64	126	120	28
31	8.4	-----	9.8	49	-----	97	-----	25	-----	126	120	-----
TOTAL	290.1	267.6	293.6	853.3	1,647	2,243	4,493	2,601	2,724	2,967	3,841	2,094
MEAN	9.36	8.92	9.47	27.5	58.8	72.4	150	83.9	90.8	95.7	124	69.8
MAX	23	9.7	9.9	50	62	97	156	138	144	126	126	120
MIN	7.8	8.4	9.1	9.7	49	58	97	25	25	45	120	28
AC-FT	575	531	582	1,690	3,270	4,450	8,910	5,160	5,400	5,890	7,620	4,150
CAL YR 1970	TOTAL	17,362.1	MEAN	47.6	MAX	217	MIN	6.5	AC-FT	34,440		
WTR YR 1971	TOTAL	24,314.6	MEAN	66.6	MAX	156	MIN	7.8	AC-FT	48,230		

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LOCATION.--Lat 41°08'13", long 111°49'54", in NE¼SW¼ sec.27, T.5 N., R.1 E., Morgan County, on left bank 400 ft downstream from tailrace of Gageway power plant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gageway.

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

EXTREMES.--Current year: Maximum discharge, 2,420 cfs May 15 (gage height, 5.10 ft); minimum, 64 cfs Oct. 27.
Period of record: Maximum discharge observed, 7,980 cfs May 31, 1896; minimum observed, 33 cfs Feb. 3, 1962.

REMARKS.--Records good. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydroelectric power plant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000). Records of chemical analysis for the water year 1971 will be published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	196	309	185	517	480	1,900	1,900	717	797	547	348
2	237	196	277	182	552	453	1,910	1,890	706	729	520	328
3	232	194	264	178	532	461	1,930	2,100	718	708	504	343
4	217	190	250	170	478	464	1,960	2,190	724	682	485	359
5	224	197	248	160	507	451	1,980	1,770	716	674	516	347
6	248	191	229	145	459	442	1,680	1,550	806	636	539	339
7	298	202	221	135	479	436	1,690	1,510	811	602	576	326
8	299	201	232	131	468	455	1,620	1,500	784	592	570	343
9	308	196	272	181	463	445	1,460	1,500	914	592	575	345
10	362	248	270	205	477	459	1,300	1,500	945	611	553	340
11	336	223	233	204	510	453	1,490	1,620	1,130	629	496	334
12	316	251	213	192	514	476	1,450	1,750	1,260	610	486	335
13	304	235	200	173	551	593	1,410	2,130	1,250	600	480	347
14	297	209	200	154	581	518	1,400	2,230	1,210	585	487	326
15	267	199	220	156	612	500	1,440	2,280	1,070	574	468	347
16	166	198	209	165	597	487	1,550	2,300	1,490	560	470	359
17	181	196	219	469	557	503	1,570	2,060	1,960	559	506	358
18	194	201	209	1,280	559	471	1,570	1,800	1,800	532	488	354
19	191	200	181	1,170	544	472	1,410	1,620	1,710	571	494	344
20	189	194	166	895	562	523	1,290	1,520	1,650	599	489	346
21	184	201	200	719	542	587	1,520	1,480	1,780	603	490	356
22	193	202	215	628	493	595	1,650	1,490	1,620	579	472	345
23	198	207	195	575	487	717	1,570	1,600	1,470	546	481	320
24	241	224	180	541	496	1,090	1,540	1,070	1,470	530	481	305
25	228	322	202	513	496	1,030	1,470	779	1,640	525	488	298
26	145	483	199	496	471	1,230	1,490	757	1,690	543	464	289
27	87	371	177	498	492	1,500	1,600	766	1,310	524	442	296
28	83	305	187	488	526	1,430	1,350	716	1,330	526	473	312
29	75	279	183	479	-----	1,530	1,800	694	1,270	523	559	299
30	85	362	191	478	-----	1,600	1,910	686	896	523	490	296
31	180	-----	183	498	-----	1,910	-----	703	-----	543	384	-----
TOTAL	6,806	7,073	6,734	12,443	14,522	22,761	47,910	47,461	36,847	18,407	15,473	9,984
MEAN	220	236	217	401	519	734	1,597	1,531	1,228	594	499	333
MAX	362	483	309	1,280	612	1,910	1,980	2,300	1,960	797	576	359
MIN	75	190	166	131	459	436	1,290	686	706	523	384	289
AC-FT	13,500	14,030	13,360	24,680	28,800	45,150	95					

WEBER RIVER BASIN

10137500 South Fork Ogden River near Huntsville, Utah

LOCATION.--Lat 41°16'07", long 111°40'24", in SE¼NE¼SW¼ sec.12, T.6 N., R.2 E., Weber County, on right bank 0.5 mile downstream from Maggie Creek, 1 mile upstream from Huntsville Mountain Canal, 5 miles downstream from Causey Dam, and 5.5 miles east of Huntsville.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--March 1921 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft (by barometer). Prior to Aug. 14, 1934, at site 300 ft upstream at different datum.

AVERAGE DISCHARGE.--50 years, 109 cfs (78,970 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,070 cfs May 16 (gage height, 4.54 ft); minimum, 17 cfs Nov. 15.

Period of record: Maximum discharge, 1,890 cfs May 3, 1952 (gage height, 5.98 ft); minimum, 13 cfs Dec. 16, 1965.

REMARKS.--Records good. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	41	24	209	101	301	483	426	126	101	53
2	24	19	39	24	241	100	278	462	397	121	101	53
3	24	19	35	24	233	100	269	523	378	116	101	55
4	24	19	35	24	226	100	278	536	360	114	101	55
5	24	19	35	24	224	96	296	471	336	109	102	54
6	27	20	34	29	219	95	336	523	327	104	104	54
7	27	23	34	35	218	95	385	588	313	102	101	56
8	26	22	35	50	215	95	394	560	301	100	98	55
9	28	21	38	50	209	95	433	546	296	101	98	55
10	31	24	35	51	207	95	518	550	283	106	96	55
11	28	21	32	52	204	94	535	575	293	102	96	54
12	27	22	29	52	202	96	546	594	260	104	95	54
13	26	21	26	52	204	106	580	586	242	104	100	56
14	26	20	27	51	206	101	588	652	230	109	104	63
15	25	19	27	51	174	95	638	748	222	107	104	63
16	23	19	26	52	91	82	662	970	213	102	100	63
17	23	22	26	82	88	84	670	888	206	101	95	61
18	23	31	25	304	85	81	630	742	197	101	95	58
19	23	28	25	291	84	82	539	627	191	101	94	58
20	22	25	26	222	81	84	493	567	182	96	94	56
21	19	26	25	182	78	86	504	544	176	92	96	55
22	20	26	25	163	91	91	554	536	172	92	104	57
23	20	27	24	153	109	106	543	507	165	101	102	58
24	26	30	25	145	109	167	539	499	161	107	102	58
25	22	31	25	155	107	172	540	540	155	106	102	58
26	21	40	25	172	106	216	542	581	152	106	106	58
27	19	38	25	170	102	293	529	586	150	106	107	58
28	19	35	25	167	102	265	507	589	146	104	109	60
29	19	34	24	167	-----	268	499	554	140	102	69	58
30	19	42	24	168	-----	301	508	504	131	101	50	61
31	19	-----	24	177	-----	325	-----	452	-----	101	53	-----
TOTAL	727	762	901	3,363	4,424	4,167	14,634	18,083	7,201	3,244	2,980	1,712
MEAN	23.5	25.4	29.1	108	158	134	488	583	240	105	96.1	57.1
MAX	31	42	41	304	241	325	670	970	426	126	109	63
MIN	19	19	24	24	78	81	269	452	131	92	50	53
AC-FT	1,440	1,510	1,790	6,670	8,780	8,270	29,030	35,870	14,280	6,430	5,910	3,400

CAL YR 1970 TOTAL 35,593 MEAN 97.5 MAX 831 MIN 19 AC-FT 70,600
WTR YR 1971 TOTAL 62,198 MEAN 170 MAX 970 MIN 19 AC-FT 123,400

PEAK DISCHARGE (BASE, 400 CFS).--Apr. 15 (2300) 731 cfs (3.84 ft); May 16 (1100) 1070 cfs (4.54 ft).

WEBER RIVER BASIN

199

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 upstream from flood-retarding dam and 7.5 miles northwest of Eden.

DRAINAGE AREA.--6.03 sq mi.

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

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

AVERAGE DISCHARGE.--8 years, 11.9 cfs (8,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 75 cfs May 13 (gage height, 2.06 ft); minimum, 2.3 cfs Oct. 28.

Period of record: Maximum discharge, 156 cfs Jan. 21, 1969 (gage height, 2.72 ft), from rating curve extended above 75 cfs; minimum recorded, 0.8 cfs Jan. 23, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.6	7.2	3.8	10	5.6	24	32	40	13	5.4	4.7
2	3.0	3.5	6.3	3.7	10	6.0	22	44	33	13	5.6	4.5
3	3.0	3.4	6.3	3.8	10	5.7	22	56	34	12	5.6	4.4
4	3.0	3.3	5.8	3.8	10	5.7	24	61	32	12	5.6	4.3
5	3.1	3.5	5.3	3.8	8.7	5.4	28	51	30	11	5.5	4.3
6	3.7	5.6	5.0	3.8	8.3	5.4	34	38	32	11	6.8	4.2
7	3.5	5.9	4.8	3.9	7.6	5.2	39	37	22	10	5.8	4.1
8	3.5	4.5	4.9	4.0	7.1	5.1	40	41	28	9.8	5.8	4.1
9	4.9	4.1	5.7	4.1	6.7	5.2	43	47	31	9.5	5.6	4.0
10	5.3	5.2	5.0	4.0	6.5	5.2	51	48	26	9.2	5.2	4.0
11	3.7	4.3	4.9	4.0	6.5	5.1	48	51	36	8.9	5.1	4.0
12	3.5	4.3	4.3	3.9	6.4	6.5	40	58	30	8.7	5.2	3.9
13	3.4	4.0	4.7	3.8	6.8	6.7	33	65	30	8.4	5.2	3.8
14	3.2	3.7	5.2	3.9	7.3	6.0	41	69	27	8.1	5.1	3.6
15	3.2	3.7	5.2	3.7	9.2	5.9	49	68	26	8.2	5.0	3.6
16	3.1	3.7	5.1	3.8	9.1	5.8	56	64	26	8.0	4.9	3.6
17	3.1	3.7	5.0	13	8.8	5.9	56	53	25	7.8	4.8	3.7
18	3.1	3.8	4.8	32	7.8	6.3	50	40	24	7.7	4.7	3.7
19	3.1	3.7	4.4	22	8.1	5.8	39	36	24	7.6	4.7	3.8
20	3.1	3.6	4.3	18	7.5	5.7	31	33	22	7.5	4.7	3.9
21	3.3	3.6	4.2	16	7.4	5.7	31	31	21	7.2	4.7	3.9
22	4.1	3.7	4.2	14	7.4	6.3	32	32	20	7.0	4.7	3.9
23	4.0	3.8	4.1	12	6.6	9.4	31	31	20	6.9	4.9	3.8
24	5.4	5.7	3.9	11	6.2	14	30	32	18	6.8	5.2	3.8
25	3.9	7.9	4.0	9.6	6.2	15	31	34	17	6.5	5.4	3.8
26	3.8	8.1	4.0	8.7	6.3	20	31	33	17	6.3	5.6	3.7
27	3.5	6.5	4.0	8.1	7.4	30	28	33	16	6.1	6.0	3.7
28	3.4	5.7	3.9	7.6	5.9	28	27	42	16	5.9	6.4	3.8
29	3.5	5.8	3.8	7.8	-----	27	27	42	15	5.8	7.0	4.0
30	3.5	7.9	3.8	7.9	-----	31	29	42	11	5.8	6.6	4.9
31	3.6	-----	3.8	8.9	-----	30	-----	40	-----	5.6	5.4	-----
TOTAL	110.5	139.8	147.9	258.4	215.8	330.6	1,067	1,384	749	261.3	168.2	119.5
MEAN	3.56	4.66	4.77	8.34	7.71	10.7	35.6	44.6	25.0	8.43	5.43	3.98
MAX	5.4	8.1	7.2	32	10	31	56	69	40	13	7.0	4.9
MIN	3.0	3.3	3.8	3.7	5.9	5.1	22	31	11	5.6	4.7	3.6
AC-FT	219	277	293	513	428	656	2,120	2,750	1,490	518	334	237

CAL YR 1970 TOTAL 3,790.1 MEAN 10.4 MAX 56 MIN 2.4 AC-FT 7,520
WTR YR 1971 TOTAL 4,952.0 MEAN 13.6 MAX 69 MIN 3.0 AC-FT 9,820

PEAK DISCHARGE (BASE, 45 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-10	2000	1.93	58	5-03	1800	2.02	69
4-16	1600	1.96	61	5-13	2200	2.06	75

NOTE.--No gage-height record Aug. 25 to Sept. 28.

WEBER RIVER BASIN

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 above diversion headgate, 3 miles northeast of Huntsville, and 6.5 miles upstream from Pine View Dam.

DRAINAGE AREA.--31.3 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 30.5 cfs (22,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 365 cfs May 11 (gage height, 3.11 ft); minimum, 1.0 cfs Aug. 19, 20, 23-25.

Period of record: Maximum discharge, 744 cfs May 18, 1967 (gage height, 3.66 ft); minimum, 0.4 cfs Aug. 18, 1964, Aug. 18, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.2	11	9.0	31	19	107	170	100	9.3	1.8	1.7
2	2.0	3.1	10	9.0	36	26	89	233	89	9.0	1.8	1.6
3	2.0	3.1	10	9.0	35	19	82	301	84	8.1	1.7	2.6
4	2.0	2.9	9.4	9.0	31	15	87	305	80	7.8	1.7	2.8
5	2.0	3.1	9.0	9.0	31	16	102	235	74	7.3	2.4	2.2
6	3.7	3.7	8.6	9.0	34	16	132	190	70	6.7	2.3	1.8
7	3.5	5.9	8.6	9.0	29	19	158	198	63	6.4	2.3	2.5
8	2.9	4.4	8.6	9.0	28	15	156	196	61	6.1	2.0	2.3
9	3.6	3.8	9.0	9.0	26	14	180	203	65	5.7	1.9	2.1
10	6.8	5.4	8.6	9.0	22	13	225	226	55	5.3	1.6	1.9
11	4.1	4.5	8.0	9.0	21	12	235	286	58	5.0	1.4	1.8
12	3.2	5.2	8.0	8.6	20	13	190	304	47	4.7	1.4	1.7
13	3.1	4.5	8.0	8.6	21	16	195	298	41	4.4	1.3	1.6
14	2.8	3.8	8.6	8.6	23	15	209	295	37	4.1	1.2	1.6
15	2.6	4.8	9.8	8.2	28	14	238	287	34	3.8	1.1	1.6
16	2.5	5.2	12	8.2	29	15	258	294	31	3.5	1.1	1.7
17	2.5	5.1	12	27	29	15	252	243	27	3.3	1.2	1.8
18	2.5	3.9	11	102	29	17	211	177	25	3.5	1.1	2.0
19	2.5	3.9	10	138	28	18	164	146	23	4.2	1.1	2.1
20	2.5	6.0	10	108	26	19	141	138	21	4.8	1.1	2.2
21	3.0	4.1	10	83	24	16	123	133	19	3.7	1.1	2.2
22	3.9	4.2	10	67	29	18	118	132	18	3.4	1.2	2.3
23	3.6	4.4	10	54	28	23	113	123	16	3.8	1.1	2.2
24	6.2	6.0	10	46	21	36	113	131	15	3.3	1.1	2.1
25	4.1	12	9.6	39	20	44	117	140	14	2.8	1.1	2.1
26	3.6	13	9.4	35	19	58	117	149	12	2.6	1.3	2.1
27	3.4	11	9.4	30	24	97	110	155	12	2.4	1.2	2.2
28	3.7	10	9.4	27	18	107	104	146	12	2.2	1.6	2.5
29	4.7	10	9.4	27	-----	106	103	130	11	2.2	5.2	2.4
30	3.9	12	9.4	27	-----	124	120	113	11	2.0	3.4	3.1
31	3.4	-----	9.0	28	-----	132	-----	101	-----	2.0	2.1	-----
TOTAL	102.2	172.2	295.8	979.2	740	1,087	4,549	6,178	1,225	143.4	51.9	62.8
MEAN	3.30	5.74	9.54	31.6	26.4	35.1	152	199	40.8	4.63	1.67	2.09
MAX	6.8	13	12	138	36	132	258	305	100	9.3	5.2	3.1
MIN	1.9	2.9	8.0	8.2	18	12	82	101	11	2.0	1.1	1.6
AC-FT	203	342	587	1,940	1,470	2,160	9,020	12,250	2,430	284	103	125

CAL YR 1970 TOTAL 10,012.26 MEAN 27.4 MAX 347 MIN .69 AC-FT 19,860
WTR YR 1971 TOTAL 15,586.50 MEAN 42.7 MAX 305 MIN 1.1 AC-FT 30,920

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-19	0300	2.98	284	5-04	0500	3.08	346
3-30	2200	2.48	139	5-11	2100	3.11	365
4-16	0100	2.93	276				

WEBER RIVER BASIN

201

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 upstream from mouth, 150 ft downstream from culvert under State Highway 39, 250 ft downstream from Pine View Dam on Ogden River, 3.8 miles west of Huntsville, and 6 miles east of Ogden.

DRAINAGE AREA.--11.1 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 8.45 cfs (6,120 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 119 cfs Apr. 10 (gage height, 2.14 ft); minimum, 0.75 cfs Mar. 11.
Period of record: Maximum discharge, about 400 cfs Dec. 24, 1964 (gage height, 3.58 ft); no flow Dec. 5, 1962.

REMARKS.--Records good. No flow diverted this year around station by City of Ogden pipeline.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	6.0	1.7	9.9	4.8	24	37	40	18	4.4	2.7
2	1.5	1.3	4.2	1.8	6.9	4.4	24	38	30	17	4.6	2.6
3	1.4	1.2	3.6	1.7	6.4	4.4	27	40	23	17	4.4	2.8
4	1.4	1.2	3.5	1.7	4.7	4.3	29	40	27	16	4.3	2.6
5	1.4	1.2	3.0	1.7	5.6	3.9	34	39	25	16	4.3	2.5
6	1.7	1.3	2.7	1.7	4.8	3.8	42	36	31	14	4.2	2.5
7	1.5	1.9	2.5	1.8	5.1	3.7	47	34	34	13	4.1	2.5
8	1.4	1.5	2.8	1.9	4.9	3.8	48	38	37	13	3.9	2.4
9	1.9	1.3	3.6	2.0	4.7	3.5	62	40	41	12	3.8	2.4
10	1.9	2.5	3.4	2.2	4.7	3.5	64	39	47	12	3.6	2.4
11	1.5	1.9	2.8	2.0	5.5	3.3	67	39	54	11	3.6	2.3
12	1.4	2.2	2.1	2.0	5.4	4.3	53	42	50	11	3.4	2.2
13	1.4	1.9	2.0	1.9	5.8	7.2	53	47	44	10	3.3	2.2
14	1.4	1.5	2.1	1.8	6.7	5.0	45	52	40	9.8	3.4	2.2
15	1.4	1.4	2.4	1.7	13	4.7	50	51	41	9.1	3.4	2.1
16	1.4	1.4	2.3	1.7	13	4.7	57	48	41	8.8	3.2	2.1
17	1.3	1.4	2.3	5.3	10	4.7	52	53	41	8.3	3.2	2.1
18	1.3	1.4	2.2	66	9.5	4.3	50	45	41	8.1	3.1	2.1
19	1.3	1.4	2.1	55	8.6	4.4	41	38	40	7.8	3.0	2.1
20	1.3	1.2	2.1	44	7.7	4.8	34	37	37	7.4	3.0	2.0
21	1.3	1.3	2.1	32	6.1	5.4	38	38	34	7.1	2.9	2.0
22	1.5	1.3	2.1	26	6.1	6.4	42	38	32	6.9	2.9	2.0
23	1.4	1.3	2.1	24	6.3	15	37	39	31	6.3	2.8	2.0
24	2.5	2.1	2.0	23	6.5	34	35	39	29	6.1	2.8	2.0
25	1.7	9.9	2.1	21	5.8	30	35	42	27	5.8	2.8	1.9
26	1.7	15	2.1	20	5.5	43	38	47	25	5.5	2.7	1.8
27	1.6	6.3	2.0	20	5.2	50	41	50	24	5.3	2.7	1.9
28	1.3	4.0	1.9	19	5.1	33	44	49	22	5.1	2.8	1.8
29	1.3	3.6	1.8	17	-----	31	42	52	20	4.9	3.9	1.8
30	1.4	9.3	1.8	12	-----	34	38	48	19	4.7	2.9	2.0
31	1.4	-----	1.7	12	-----	31	-----	44	-----	4.5	2.7	-----
TOTAL	46.4	84.5	79.4	425.6	189.5	400.3	1,293	1,319	1,027	301.5	106.1	66.0
MEAN	1.50	2.82	2.56	13.7	6.77	12.9	43.1	42.5	34.2	9.73	3.42	2.20
MAX	2.5	15	6.0	66	13	50	67	53	54	18	4.6	2.8
MIN	1.3	1.2	1.7	1.7	4.7	3.3	24	34	19	4.5	2.7	1.8
AC-FT	92	168	157	844	376	794	2,560	2,620	2,040	598	210	131
CAL YR 1970	TOTAL 3,162.77			MEAN 8.67	MAX 64	MIN .57	AC-FT 6,270					
WTR YR 1971	TOTAL 5,338.30			MEAN 14.6	MAX 67	MIN 1.2	AC-FT 10,590					

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
1-18	1900	2.15	86	4-10	1800	2.14	119
3-26	2300	2.04	76	6-11	0700	1.97	58

WEBER RIVER BASIN

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 downstream from pumping plant, 1.5 miles west of the interchange on U.S. Highway 89 at Utah Hot Springs, and 3.4 miles north of Plain City.

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

GAGE.--Staff gage read daily except during May. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum contents observed, 186,000 acre-ft May 10 (elevation, 4,224.76 ft); minimum contents observed, 158,000 acre-ft Sept. 29, 30 (elevation, 4,221.94 ft).

Period of record: Maximum contents, 193,300 acre-ft May 23-31, June 3-10, 12, 14, 15, 17, 1967, May 25, 1968; minimum observed contents since first year of storage, that of Dec. 5, 1969 (elevation, 4,213.01 ft).

REMARKS.--Reservoir is formed by earth-fill dike between elevation 4,199.0 ft (streambed at dam axis) and 4,235.0 ft (crest of dam). Storage began Nov. 3, 1964 when reservoir was completed. Capacity, 193,300 acre-ft between elevations 4,205.00 ft (top of inactive storage) and 4,225.50 ft (top of active storage) above mean sea level. Dead storage, 16,850 acre-ft. 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 downstream from the mouth of the 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)

4,217	109,300	4,223	168,500
4,219	129,000	4,224	178,400
4,221	148,700	4,225	188,300

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					176,400	185,100		183,900		177,500		
2		184,700									169,400	
3								184,000				
4				176,500								
5							182,000			175,800		
6	177,800							184,200				162,600
7			179,700									
8					179,000	183,800						
9		183,400									167,800	
10								186,000				
11				176,000						173,900		
12	183,400						182,200					
13												161,800
14			180,100						183,000			
15					181,400	182,500						
16		183,000									166,500	
17												
18			179,000	175,600						172,400		
19							183,400	185,600				160,900
20												
21									181,200			
22					184,000	181,100						
23		183,000									164,600	
24								185,800				
25				174,500						171,000		
26	185,800						183,700					
27								185,600				158,900
28			176,400		185,000				179,400			
29					-----	182,000						158,000
30		182,200			-----		183,800		178,400			a158,000
31	185,100	-----	175,600	175,400	-----	182,200	-----	184,500	-----	169,800	163,500	-----
(+)	4,224.67	4,224.38	4,223.72	4,223.70	4,224.66	4,224.38	4,224.54	4,224.61	4,224.00	4,223.13	4,222.50	-----
(+)	+12,700	-2,900	-6,600	-200	+9,600	-2,800	+1,600	+700	-6,100	-8,600	-6,300	-5,500

CAL YR 1970..... + +89,700

WTR YR 1971..... + -14,400

+ Elevation, in feet, at end of month.

+ Change in contents, in acre-feet

a No gage-height reading; contents interpolated.

WEBER RIVER BASIN

203

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 downstream from Fourmile Creek, 1.5 miles south of Plain City, and 6 miles upstream from mouth.

DRAINAGE AREA.--2,060 sq mi, 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 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 upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 2,950 cfs Apr. 30 (gage height, 13.71 ft); minimum recorded, 14 cfs Aug. 28.

Period of record: Maximum discharge, 10,100 cfs May 6, 1952 (gage height, 19.01 ft); practically no flow during latter part of several summers since 1915.

REMARKS.--Records good. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	285	570	272	557	610	2,200	2,840	475	292	62	483
2	334	276	495	254	585	600	2,250	2,550	454	148	53	425
3	331	289	466	234	597	600	2,250	2,650	443	98	77	388
4	324	286	472	229	527	600	2,000	2,800	438	115	46	467
5	349	288	441	229	545	600	2,180	2,620	421	138	45	494
6	398	276	453	230	511	600	2,070	2,200	452	125	57	458
7	615	397	412	240	514	600	1,870	1,990	672	104	92	390
8	657	366	411	260	499	600	1,860	1,940	574	94	72	375
9	610	321	471	300	496	600	1,720	1,950	634	86	126	392
10	634	382	620	350	497	610	1,560	1,890	618	88	90	368
11	651	399	510	348	515	640	1,640	1,920	820	131	66	328
12	613	439	458	310	560	715	1,670	2,040	1,150	130	43	312
13	585	451	397	286	600	809	1,620	2,390	1,200	110	56	283
14	536	376	395	266	640	787	1,600	2,800	1,190	94	55	223
15	415	346	383	271	700	759	1,620	2,700	1,020	77	37	202
16	233	338	408	350	710	740	1,690	2,640	961	65	32	217
17	380	330	421	475	690	720	1,730	2,430	1,520	78	32	207
18	602	344	416	1,260	650	720	1,780	1,870	1,500	102	42	229
19	572	343	369	1,630	620	680	1,620	1,630	1,320	97	43	218
20	520	330	345	1,280	600	690	1,470	1,490	1,080	126	58	211
21	409	331	381	1,150	600	700	1,670	1,280	1,150	133	60	235
22	337	329	391	1,010	590	760	2,300	989	1,060	104	78	244
23	349	360	384	919	590	840	2,240	1,040	818	74	103	236
24	433	359	347	865	580	1,000	2,280	856	782	56	89	230
25	423	379	354	734	570	1,150	2,150	418	800	44	99	203
26	353	656	348	564	570	1,300	2,250	336	935	75	112	188
27	252	611	353	548	600	1,500	2,510	364	738	53	98	183
28	219	581	363	544	630	1,650	2,390	330	657	41	47	185
29	213	469	356	528	-----	1,800	2,380	301	665	63	304	201
30	199	532	335	535	-----	2,000	2,930	316	426	58	530	292
31	241	-----	286	532	-----	2,200	-----	390	-----	53	493	-----
TOTAL	13,129	11,469	12,811	17,003	16,343	28,180	59,500	51,960	24,973	3,052	3,197	8,867
MEAN	424	382	413	548	584	909	1,983	1,676	832	98.5	103	296
MAX	657	656	620	1,630	710	2,200	2,930	2,840	1,520	292	530	494
MIN	199	276	286	229	496	600	1,470	301	421	41	32	183
AC-FT	26,040	22,750	25,410	33,730	32,420	55,900	118,000	103,100	49,530	6,050	6,340	17,590
CAL YR 1970	TOTAL 128,132		MEAN 351	MAX 1,730	MIN 40	AC-FT 254,100						
WTR YR 1971	TOTAL 250,484		MEAN 686	MAX 2,930	MIN 32	AC-FT 496,800						

TRIBUTARIES BETWEEN WEBER AND JORDAN RIVERS

10142000 Farmington Creek above diversions, near Farmington, Utah

LOCATION.--Lat 41°00'05", long 111°52'21", in NE¼NE¼NE¼ sec.18, T.3 N., R.1 E., Davis county, on right bank 1.0 mile northeast of Farmington.

DRAINAGE AREA.--10.0 sq mi.

PERIOD OF RECORD.--October 1949 to September 1971 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,100 ft (from Forest Service topographic map). Prior to Oct. 1, 1951, at site 600 ft downstream at different datum.

AVERAGE DISCHARGE.--22 years, 13.3 cfs (9,640 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 262 cfs May 14 (gage height, 1.75 ft); minimum, 2.9 cfs Jan. 2.

Period of record: Maximum discharge, 298 cfs May 20, 1964 (gage height, 2.03 ft); minimum, 0.5 cfs Aug. 14, 1961.

REMARKS.--Records good. Records include a small transmountain diversion from Hardscrabble Creek.

REVISIONS.--WSP 1564: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	5.0	6.4	4.8	11	6.0	18	42	63	21	6.5	4.6
2	3.9	5.0	6.0	4.6	12	5.9	17	55	57	20	6.3	4.4
3	3.8	4.6	5.8	4.4	11	5.8	17	58	60	19	6.2	5.7
4	3.9	4.5	5.7	4.7	10	5.7	19	92	56	17	6.1	4.9
5	3.9	4.6	5.4	4.5	9.4	5.7	21	92	56	17	6.0	4.6
6	4.7	4.8	5.3	4.5	8.8	5.7	25	83	55	16	6.3	4.2
7	4.8	5.4	5.3	4.4	8.5	5.6	30	96	57	15	6.3	5.2
8	4.6	5.2	5.5	4.5	8.1	5.6	30	113	56	14	6.1	4.7
9	7.1	5.1	5.9	4.6	7.6	5.6	33	103	61	13	6.0	4.4
10	11	5.9	5.6	4.6	7.5	5.7	41	96	60	12	5.6	4.2
11	6.3	5.4	5.3	4.5	7.5	5.7	46	89	82	12	5.4	4.0
12	5.8	5.9	4.6	4.5	7.5	5.9	42	90	68	11	5.2	4.0
13	5.7	5.4	4.9	4.5	7.7	6.7	42	120	61	11	5.1	3.9
14	5.2	4.9	5.2	4.5	8.6	6.4	44	154	55	11	4.9	3.9
15	4.9	5.0	5.1	4.3	9.8	6.2	48	186	51	10	4.8	3.9
16	4.8	5.0	5.2	4.4	9.8	6.2	49	198	46	10	4.9	4.0
17	4.7	4.7	5.2	8.6	9.4	6.1	49	128	43	10	4.8	4.1
18	4.6	4.8	5.2	22	9.1	5.8	46	99	38	10	4.8	4.2
19	4.5	4.8	4.8	41	8.6	5.8	37	83	33	10	4.6	4.2
20	4.5	4.6	4.8	27	8.5	6.3	33	90	31	10	4.5	4.2
21	4.7	4.7	4.8	22	7.8	7.0	30	86	30	9.6	4.6	4.2
22	5.7	4.7	5.0	18	7.5	7.6	32	90	30	9.7	4.5	4.2
23	5.2	4.7	5.6	15	7.3	8.7	28	90	30	9.4	4.5	4.1
24	6.4	6.1	5.4	13	6.8	12	28	93	28	9.1	4.4	4.0
25	5.6	8.8	5.1	12	6.7	11	29	96	25	8.6	4.5	3.9
26	5.3	9.0	5.1	11	6.4	13	28	93	23	8.2	4.5	4.0
27	4.9	7.7	5.1	10	6.4	17	27	93	22	7.7	4.3	4.0
28	4.8	7.2	5.1	9.5	6.1	17	26	85	21	7.5	5.6	4.1
29	4.9	6.7	5.0	9.4	-----	17	28	76	21	7.3	10	4.0
30	5.0	7.0	4.8	9.8	-----	19	33	68	21	7.0	5.9	4.9
31	5.1	-----	4.8	10	-----	20	-----	65	-----	6.7	4.9	-----
TOTAL	160.2	167.2	163.0	310.6	235.4	267.7	976	3,002	1,340	359.8	168.1	128.7
MEAN	5.17	5.57	5.26	10.0	8.41	8.64	32.5	96.8	44.7	11.6	5.42	4.29
MAX	11	9.0	6.4	41	12	20	49	198	82	21	10	5.7
MIN	3.8	4.5	4.6	4.3	6.1	5.6	17	42	21	6.7	4.3	3.9
AC-FT	318	332	323	616	467	531	1,940	5,950	2,660	714	333	255

CAL YR 1970 TOTAL 5,390.2 MEAN 14.8 MAX 119 MIN 3.8 AC-FT 10,690
 WTR YR 1971 TOTAL 7,278.7 MEAN 19.9 MAX 198 MIN 3.2 AC-FT 14,440

PEAK DISCHARGE (BASE, 80 CFS).--May 8 (0200) 117 cfs (1.43 ft); May 14 (2000) 262 cfs (1.75 ft).

TRIBUTARIES BETWEEN WEBER AND JORDAN RIVERS

205

10143500 Centerville Creek above diversions, near Centerville, Utah

LOCATION.--Lat 40°54'59", long 111°51'44", SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.2 N., R.1 E., Davis County, on right bank 1.2 miles east of Centerville.

DRAINAGE AREA.--3.15 sq mi.

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 (from topographic map).
Prior to Nov. 21, 1960, at site 250 ft downstream at different datum.

AVERAGE DISCHARGE.--22 years, 2.74 cfs (1,990 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 24 cfs May 16 (gage height, 1.99 ft); minimum, 1.2 cfs Dec. 18.
Period of record: Maximum daily discharge, 30 cfs May 6, 7, 1952; minimum daily recorded, 0.5 cfs Mar. 16, 1955, and several days in 1961.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.6	1.9	1.6	2.3	2.0	5.8	11	14	4.6	2.3	4.2
2	1.5	1.6	1.8	1.5	2.6	2.0	5.6	13	14	4.5	2.3	5.1
3	1.5	1.6	1.8	1.5	2.4	2.0	5.7	14	13	4.4	2.3	2.3
4	1.5	1.6	1.8	1.5	2.4	2.1	5.9	16	13	4.4	2.6	2.1
5	1.5	1.6	1.7	1.5	2.3	2.0	6.4	16	12	4.1	2.4	1.8
6	1.6	1.7	1.7	1.5	2.2	2.0	7.1	16	12	4.0	2.4	2.4
7	1.7	2.0	1.7	1.5	2.2	2.0	7.9	16	11	4.4	2.4	3.0
8	1.6	1.8	1.7	1.6	2.1	2.0	8.3	16	11	3.7	2.3	2.0
9	2.0	1.8	1.9	1.8	2.1	2.0	9.1	16	11	3.5	2.2	1.9
10	2.2	2.1	1.8	1.6	2.1	2.0	11	16	11	3.5	2.1	1.8
11	1.8	1.8	1.7	1.6	2.1	2.1	12	16	12	3.4	2.0	1.8
12	1.7	2.1	1.6	1.7	2.0	2.2	12	17	10	3.3	2.0	1.8
13	1.7	1.8	1.7	1.6	2.1	2.4	12	18	9.8	3.2	2.0	1.8
14	1.6	1.7	1.7	1.5	2.2	2.1	12	20	9.2	3.1	2.0	1.8
15	1.6	1.7	1.7	1.5	2.4	2.2	13	22	8.7	3.0	2.1	1.8
16	1.6	1.6	1.7	1.6	2.4	2.2	13	23	8.4	3.0	2.1	1.8
17	1.5	1.6	1.7	2.2	2.4	2.2	14	22	8.1	3.0	2.0	1.8
18	1.5	1.7	1.7	3.9	2.5	2.2	14	20	7.9	3.0	2.0	1.8
19	1.5	1.8	1.8	3.6	2.5	2.1	13	18	7.8	3.0	1.9	1.8
20	1.5	1.7	1.7	3.5	2.4	2.2	12	17	7.4	3.0	1.9	1.8
21	1.6	1.8	1.7	3.2	2.3	2.3	11	15	7.0	2.9	1.9	1.8
22	1.8	1.8	1.7	2.9	2.3	2.4	11	15	6.5	2.7	1.9	1.8
23	1.7	1.8	1.6	2.8	2.2	2.6	10	14	6.3	2.7	1.9	1.8
24	2.0	2.0	1.6	2.6	2.2	3.1	10	14	6.1	2.6	1.9	1.7
25	1.8	2.6	1.6	2.5	2.2	3.2	10	15	5.9	2.5	2.0	1.7
26	1.7	3.0	2.0	2.4	2.1	4.0	10	16	5.7	2.4	1.9	1.8
27	1.6	2.4	1.6	2.3	2.1	4.8	10	17	5.7	2.4	1.9	1.8
28	1.6	2.0	1.6	2.3	2.0	4.8	9.8	17	5.5	2.5	2.4	1.8
29	1.6	1.9	1.6	2.3	-----	4.9	9.8	17	5.4	2.5	3.0	1.8
30	1.6	2.0	1.6	2.3	-----	5.5	10	16	5.0	2.4	2.2	2.1
31	1.7	-----	1.6	2.3	-----	5.9	-----	15	-----	2.4	2.0	-----
TOTAL	51.3	56.2	53.0	66.2	63.1	85.5	301.4	514	270.4	100.1	66.3	62.7
MEAN	1.65	1.87	1.71	2.14	2.25	2.76	10.0	16.6	9.01	3.23	2.14	2.09
MAX	2.2	3.0	2.0	3.9	2.6	5.9	14	23	14	4.6	3.0	5.1
MIN	1.5	1.6	1.6	1.5	2.0	2.0	5.6	11	5.0	2.4	1.9	1.7
AC-FT	102	111	105	131	125	170	598	1,020	536	199	132	124

CAL YR 1970 TOTAL 1,213.7 MEAN 3.33 MAX 17 MIN 1.3 AC-FT 2,410
WTR YR 1971 TOTAL 1,690.2 MEAN 4.63 MAX 23 MIN 1.5 AC-FT 3,350

10146000 Salt Creek at Nephi, Utah

LOCATION.--Lat 39°42'46", long 111°48'22", in SE¼SW¼NE¼ sec.3, T.13 S., R.1 E., Juab County, on right bank 1 mile east of Nephi.

DRAINAGE AREA.--95.6 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 5,248.06 ft above mean sea level. Prior to Nov. 6, 1952, at site 75 ft upstream at datum 1.43 ft higher.

AVERAGE DISCHARGE.--20 years, 26.4 cfs (19,130 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 234 cfs Aug. 6 (gage height, 2.98 ft); minimum, 4.2 cfs Jan. 6.

Period of record: Maximum discharge, 832 cfs Aug. 1, 1968 (gage height, 6.43 ft, from floodmarks); minimum, 1.1 cfs Dec. 13, 1951, Dec. 11, 1961.

REMARKS.--Records good. No flow in Salt Creek diversion canal since 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	14	13	15	19	46	55	66	52	21	18
2	13	12	14	13	20	17	45	61	62	50	20	17
3	14	12	13	11	18	18	45	69	62	49	19	17
4	14	12	13	8.3	18	18	44	76	66	46	19	17
5	14	12	13	7.1	19	18	46	71	68	45	19	17
6	15	12	13	5.0	18	18	48	67	70	44	26	17
7	16	15	13	5.2	18	18	53	68	70	42	19	20
8	15	13	13	6.1	18	18	52	68	78	41	19	19
9	15	13	14	8.5	18	18	56	65	86	40	19	18
10	16	13	14	10	18	18	63	62	93	39	19	17
11	15	13	13	11	19	19	71	62	93	38	19	16
12	15	14	13	11	19	19	71	67	82	35	19	16
13	15	14	12	11	19	19	72	72	74	32	19	16
14	14	13	13	11	19	19	73	80	73	33	18	15
15	14	13	13	11	19	19	71	97	80	32	19	16
16	14	13	13	12	19	18	77	102	88	30	18	16
17	14	13	13	12	19	19	80	93	90	29	18	16
18	14	13	13	13	19	19	79	75	90	27	18	17
19	14	13	12	14	20	18	74	67	84	29	18	17
20	14	13	13	14	19	19	73	65	83	28	17	17
21	13	14	13	13	19	20	65	62	82	28	17	16
22	14	14	13	13	18	20	62	62	80	28	18	16
23	14	14	13	13	18	22	59	60	78	28	18	16
24	14	14	12	13	19	25	59	57	77	27	18	15
25	13	14	11	13	19	26	56	62	73	26	18	16
26	13	15	10	13	19	31	54	69	66	25	18	16
27	13	15	12	14	18	44	52	76	64	23	18	16
28	13	14	12	14	19	44	52	79	58	23	19	16
29	13	14	12	14	-----	43	50	77	57	22	31	16
30	13	14	13	14	-----	49	51	73	53	21	20	17
31	12	-----	12	15	-----	53	-----	68	-----	21	19	-----
TOTAL	433	400	395	356.2	520	745	1,799	2,187	2,246	1,033	597	499
MEAN	14.0	13.3	12.7	11.5	18.6	24.0	60.0	70.5	74.9	33.3	19.3	16.6
MAX	16	15	14	15	20	53	80	102	93	52	31	20
MIN	12	12	10	5.0	15	17	44	55	53	21	17	15
AC-FT	859	793	783	707	1,030	1,480	3,570	4,340	4,450	2,050	1,180	990
CAL YR 1970	TOTAL 10,432.0			MEAN 28.6	MAX 115	MIN 10	AC-FT 20,690					
WTR YR 1971	TOTAL 11,210.2			MEAN 30.7	MAX 102	MIN 5.0	AC-FT 22,240					

JORDAN RIVER BASIN

207

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 upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 miles west of Soldier Summit, and 15 miles east of Thistle.

DRAINAGE AREA.--22.7 sq mi.

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

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 5.01 cfs (3,630 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 74 cfs Aug. 30 (gage height, 2.64 ft); maximum gage height, 3.43 ft Mar. 2 (backwater from ice); minimum discharge, 0.42 cfs Dec. 19.

Period of record: Maximum discharge, 396 cfs July 22, 1970 (gage height, 4.99 ft) from rating curve extended above 26 cfs on basis of slope-area measurement of peak flow; minimum discharge recorded, 0.2 cfs Nov. 17, Dec. 7, 1964.

REMARKS.--Records fair. No diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.1	3.3	2.9	3.6	3.9	6.0	12	12	8.0	6.0	3.7
2	2.5	2.2	3.3	3.0	3.9	3.6	5.9	12	12	7.6	6.0	3.6
3	2.4	2.9	2.8	3.0	3.4	3.5	6.1	13	12	7.4	5.9	3.6
4	2.4	3.4	4.0	2.9	3.2	3.5	6.1	13	12	7.4	5.7	3.6
5	2.4	2.8	2.3	2.9	3.8	3.7	6.1	14	12	7.3	5.7	3.4
6	3.0	2.8	3.2	2.8	4.7	3.8	6.3	14	11	7.3	6.2	3.6
7	3.1	3.3	3.4	2.7	3.8	3.9	6.4	14	11	7.2	6.1	3.7
8	3.1	3.0	2.5	2.6	4.2	3.9	6.6	15	11	7.6	6.0	3.9
9	3.3	2.8	2.7	2.6	4.0	3.6	6.6	15	11	7.7	6.1	3.7
10	3.8	2.9	2.6	2.5	4.0	3.3	6.8	15	10	7.6	6.0	3.6
11	3.0	2.8	2.5	2.5	4.2	3.3	7.1	14	11	7.5	5.8	3.6
12	3.0	3.0	2.5	2.5	4.2	3.6	8.0	15	11	7.6	5.7	3.6
13	2.9	2.8	2.5	2.5	4.2	3.5	8.5	15	11	7.4	5.6	3.5
14	2.9	2.8	2.5	2.6	4.2	3.2	9.2	14	10	7.5	5.5	3.5
15	3.0	2.9	2.5	2.5	4.0	3.3	9.9	14	9.9	7.2	5.5	3.5
16	2.9	2.9	2.5	2.5	4.2	4.4	10	15	9.7	7.2	5.4	3.4
17	2.8	2.8	2.5	2.8	4.6	3.4	10	15	9.5	7.1	5.3	3.4
18	3.0	2.7	2.9	3.4	4.4	5.8	11	14	9.3	7.1	5.3	3.4
19	2.9	3.2	2.8	3.1	4.3	7.1	11	14	9.3	7.2	5.0	3.5
20	3.0	3.9	2.9	3.1	4.2	7.0	11	14	9.1	7.1	4.9	3.5
21	2.7	2.9	3.0	2.5	3.8	3.7	10	14	8.8	7.0	4.9	3.5
22	2.9	2.6	3.2	2.4	3.9	3.9	11	14	8.8	7.0	4.8	3.4
23	2.7	2.9	3.2	2.5	4.1	3.9	11	14	8.5	6.8	4.7	3.4
24	3.1	3.3	3.2	3.1	4.3	4.7	11	13	8.3	6.6	4.7	3.4
25	2.7	3.4	3.1	3.0	4.7	4.4	11	13	8.0	6.5	4.6	3.3
26	2.7	4.1	3.0	3.0	4.5	5.0	11	13	8.0	6.4	4.6	3.3
27	2.6	3.6	3.0	3.1	4.3	5.4	12	13	8.1	6.3	4.6	3.7
28	2.7	3.4	2.9	3.1	4.0	5.5	12	13	8.1	6.3	4.6	3.7
29	2.7	3.5	2.8	3.2	-----	5.7	12	13	8.0	6.2	4.7	3.6
30	2.3	3.5	2.7	3.4	-----	5.9	12	13	8.0	6.1	7.8	3.7
31	2.2	-----	2.8	3.7	-----	6.4	-----	13	-----	6.1	4.2	-----
TOTAL	87.2	91.2	89.1	88.4	114.7	135.8	271.6	427	296.4	219.3	167.9	106.3
MEAN	2.81	3.04	2.87	2.85	4.10	4.38	9.05	13.8	9.88	7.07	5.42	3.54
MAX	3.8	4.1	4.0	3.7	4.7	7.1	12	15	12	8.0	7.8	3.9
MIN	2.2	2.1	2.3	2.4	3.2	3.2	5.9	12	8.0	6.1	4.2	3.3
AC-FT	173	181	177	175	228	269	539	847	588	435	333	211

CAL YR 1970 TOTAL 1,582.5 MEAN 4.34 MAX 21 MIN 1.7 AC-FT 3,140
WTR YR 1971 TOTAL 2,094.9 MEAN 5.74 MAX 15 MIN 2.1 AC-FT 4,160

PEAK DISCHARGE (BASE, 15 CFS).--May 16 (1100) 16 cfs (2.11 ft); Aug. 30 (1600) 74 cfs (2.64 ft).

JORDAN RIVER BASIN

10148400 Nebo Creek near Thistle, Utah

LOCATION.--Lat 39°52'18", long 111°34'10", in SW¼SE¼SE¼ sec.10, T.11 S., R.3 E., Utah County, on left bank 0.2 mile upstream from Spencer Creek, 1.8 miles upstream from mouth, 3.8 miles south of Birdseye, and 9.5 miles southwest of Thistle.

DRAINAGE AREA.--36.7 sq mi.

RECORDS AVAILABLE.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 14.3 cfs (10,360 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 83 cfs May 15 (gage height, 2.09 ft); maximum gage height, 2.66 ft Dec. 27 (backwater from ice); minimum daily discharge, 4.5 cfs Jan. 6.

Period of record: Maximum discharge, 197 cfs Apr. 23, 1969 (gage height, 3.27 ft); minimum recorded, 2.6 cfs July 26, 1965 and Jan. 18, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.6	8.0	6.6	10	9.2	28	39	35	14	8.9	8.2
2	7.0	7.6	7.8	7.0	12	9.2	27	49	33	14	8.8	8.0
3	7.0	7.6	7.4	6.4	10	9.3	28	60	32	13	8.7	8.6
4	6.8	7.4	7.4	5.6	9.2	9.6	29	62	31	13	9.0	8.5
5	6.9	7.4	7.8	5.0	8.0	9.4	32	58	30	13	9.9	8.4
6	7.3	7.4	7.8	4.5	7.4	9.3	38	57	29	12	9.4	8.1
7	7.5	8.7	7.7	4.8	7.0	9.2	41	59	27	12	9.3	9.5
8	7.1	7.9	7.4	5.2	7.0	9.2	39	57	26	12	9.0	8.9
9	7.1	7.5	7.8	5.6	7.8	9.0	45	55	25	11	8.8	8.5
10	7.7	7.7	7.5	7.0	8.5	9.2	52	52	24	11	8.7	8.3
11	7.1	7.6	7.1	7.1	9.1	9.2	55	52	25	11	8.5	8.1
12	7.0	7.8	7.0	7.2	8.9	9.4	54	58	24	11	8.4	8.0
13	7.0	7.6	6.8	7.2	9.0	9.8	57	62	23	11	8.2	7.9
14	7.0	7.2	6.7	7.3	9.2	9.3	58	70	22	11	8.2	7.9
15	7.2	7.2	7.4	7.4	9.3	9.2	59	76	21	10	8.1	8.0
16	7.0	7.6	7.5	7.4	9.0	8.6	60	79	20	10	8.2	8.0
17	7.1	7.8	7.6	7.6	9.2	9.2	57	69	19	11	8.2	8.2
18	7.0	8.0	7.5	8.0	9.2	9.0	51	59	18	10	8.6	8.4
19	7.0	7.6	7.4	8.6	9.3	8.7	44	52	18	11	8.3	8.6
20	7.0	7.4	7.4	9.2	9.2	8.6	41	49	18	11	8.1	8.6
21	7.0	7.8	7.7	9.9	8.5	9.4	38	47	17	11	8.2	8.6
22	7.4	7.8	7.5	9.4	8.6	10	34	45	17	11	8.4	8.6
23	7.4	7.8	6.9	9.1	8.8	11	34	43	16	11	8.3	8.6
24	8.0	7.8	6.6	8.6	8.8	15	33	43	15	10	8.0	8.5
25	7.8	8.0	6.4	8.2	8.8	14	32	42	15	10	8.3	8.5
26	7.8	9.0	6.2	8.2	8.8	26	30	43	15	9.8	8.3	8.1
27	7.8	8.6	6.4	8.3	9.0	42	31	42	15	9.5	8.1	8.2
28	7.8	8.2	6.6	8.3	9.2	34	30	42	15	9.4	8.7	8.4
29	7.8	8.0	6.7	8.3	-----	32	31	40	15	9.2	9.6	8.4
30	7.8	8.4	6.6	8.3	-----	39	35	41	14	9.1	9.1	8.6
31	7.6	-----	6.7	8.8	-----	38	-----	38	-----	9.0	8.7	-----
TOTAL	226.0	234.0	223.3	230.1	248.8	454.0	1,223	1,640	654	341.0	267.0	251.2
MEAN	7.29	7.80	7.20	7.42	8.89	14.6	40.8	52.9	21.8	11.0	8.61	8.37
MAX	8.0	9.0	8.0	9.9	12	42	60	79	35	14	9.9	9.5
MIN	6.8	7.2	6.2	4.5	7.0	8.6	27	38	14	9.0	8.0	7.9
AC-FT	448	464	443	456	493	901	2,430	3,250	1,300	676	530	498

CAL YR 1970 TOTAL 4,946.7 MEAN 13.6 MAX 86 MIN 6.2 AC-FT 9,810
WTR YR 1971 TOTAL 5,992.4 MEAN 16.4 MAX 79 MIN 4.5 AC-FT 11,890

PEAK DISCHARGE (BASE, 70 CFS).--May 15 (2100) 83 cfs (2.09 ft).

JORDAN RIVER BASIN

209

10148500 Spanish Fork at Thistle, Utah

LOCATION.--Lat 39°59'58", long 111°29'55", in SE½NE½SE½ sec.29, T.9 S., R.4 E., Utah County, on right bank on west side of U.S. Highway 6, 50, and 89 at Thistle, 0.3 mile downstream from confluence of Soldier Fork and Thistle Creek, and 2 miles upstream from Diamond Fork.

DRAINAGE AREA.--490 sq mi, 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 above mean sea level. See WSP 1734 for history of changes prior to June 28, 1960.

AVERAGE DISCHARGE.--56 years, 88.4 cfs (64,050 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 466 cfs May 16 (gage height, 4.31 ft); minimum, 30 cfs Sept. 13.

Period of record: Maximum discharge, 1,800 cfs May 4, 1952 (gage height, 7.96 ft, datum then in use); minimum observed, 9.2 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	57	59	50	67	57	125	178	267	92	51	52
2	52	56	59	53	73	58	118	193	249	88	51	50
3	52	56	54	37	83	58	119	246	234	84	53	51
4	51	56	51	39	68	64	115	296	224	82	52	50
5	52	56	57	31	65	62	118	293	214	79	54	49
6	54	54	52	32	51	59	127	282	206	76	61	48
7	58	61	52	35	54	61	140	277	199	76	59	68
8	55	59	59	43	50	65	138	290	194	73	49	58
9	55	57	62	48	52	63	143	281	187	74	46	51
10	66	57	63	51	58	72	156	276	181	73	46	50
11	56	56	55	53	63	73	172	281	179	70	46	48
12	55	59	43	54	71	76	179	295	170	69	45	43
13	55	59	46	54	73	91	185	311	161	66	46	42
14	54	57	43	54	75	71	184	334	151	65	46	39
15	54	54	48	53	74	72	183	379	149	65	46	42
16	54	56	47	54	69	66	189	449	146	60	47	44
17	53	56	51	55	70	73	196	436	138	56	48	49
18	53	57	50	63	70	66	196	389	132	55	52	50
19	52	56	48	69	67	64	187	347	127	63	49	52
20	52	51	49	71	65	71	180	331	123	60	46	51
21	52	58	48	75	60	77	176	320	119	58	51	51
22	56	58	50	74	56	84	177	318	114	60	60	51
23	56	58	48	67	56	89	173	307	108	59	56	52
24	59	58	46	65	57	116	176	295	105	57	49	52
25	57	58	43	63	60	110	174	291	101	55	47	51
26	58	66	41	61	56	150	170	295	98	54	50	48
27	57	67	43	62	52	197	170	305	95	53	53	50
28	53	61	44	62	55	154	171	301	95	55	55	51
29	55	61	50	61	-----	134	170	291	95	54	61	51
30	56	63	48	62	-----	148	170	293	93	53	96	51
31	57	-----	49	64	-----	162	-----	283	-----	53	62	-----
TOTAL	1,701	1,738	1,558	1,715	1,770	2,763	4,877	9,463	4,654	2,037	1,633	1,495
MEAN	54.9	57.9	50.3	55.3	63.2	89.1	163	305	155	65.7	52.7	49.8
MAX	66	67	63	75	83	197	196	449	267	92	96	68
MIN	51	51	41	31	50	57	115	178	93	53	45	39
AC-FT	3,370	3,450	3,090	3,400	3,510	5,480	9,670	18,770	9,230	4,040	3,240	2,970

CAL YR 1970 TOTAL 33,151 MEAN 90.8 MAX 451 MIN 37 AC-FT 65,760
WTR YR 1971 TOTAL 35,404 MEAN 97.0 MAX 449 MIN 31 AC-FT 70,220

PEAK DISCHARGE (BASE, 330 CFS).--May 16 (2000) 466 cfs (4.31 ft); Aug. 30 (1700) 413 cfs (4.34 ft).

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¹/₄ sec.12, T.9 S., R.3 E., Utah County, on right bank 600 ft upstream from outlet of Cold Springs, 1 mile upstream from diversion dam of Bureau of Reclamation, 1.5 miles northwest of Castilla, and 3 miles downstream from Diamond Fork.

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.

AVERAGE DISCHARGE.--12 years (1890, 1903-14), 172 cfs; 47 years (1914-17, 1919-25, 1933-71), 214 cfs (155,000 acre-ft per year; includes transmountain diversion).

REMARKS.--Records good. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir (capacity, 270,000 acre-ft) in Colorado River basin via Strawberry tunnel for irrigation in vicinity of Spanish Fork.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	78	89	75	109	84	221	353	528	599	372	93
2	327	76	89	79	123	80	207	391	500	590	464	87
3	327	75	82	65	133	87	217	445	440	564	485	97
4	161	75	75	40	109	100	212	499	368	548	483	99
5	87	78	87	43	114	95	219	474	334	539	514	89
6	87	78	76	33	84	86	242	466	311	514	528	91
7	89	95	77	44	93	83	273	455	293	495	497	116
8	82	87	87	59	82	99	260	478	287	514	444	86
9	84	82	91	73	85	94	285	463	264	557	476	81
10	110	86	92	78	100	105	329	442	244	516	457	82
11	87	83	80	80	109	108	363	445	248	528	425	78
12	81	89	60	81	115	113	362	472	224	546	411	74
13	79	88	53	81	120	136	366	493	204	559	430	74
14	78	82	60	79	125	105	370	535	215	512	416	70
15	77	79	71	78	127	107	368	611	248	535	368	71
16	77	83	68	85	116	97	384	694	324	517	420	81
17	76	82	76	86	120	110	397	659	401	437	424	95
18	76	87	75	101	121	93	389	581	460	363	460	100
19	75	86	53	113	115	89	358	511	528	405	457	100
20	75	77	57	115	109	100	345	474	509	442	451	94
21	76	89	71	117	98	109	331	454	539	426	450	96
22	80	87	74	115	88	123	333	454	583	419	419	114
23	80	87	71	108	89	137	320	442	601	383	396	108
24	87	89	55	103	97	199	344	419	607	313	360	97
25	83	89	49	98	95	191	329	414	609	268	374	116
26	83	111	45	99	87	287	332	420	612	282	365	122
27	82	110	60	99	75	413	337	452	607	290	320	125
28	75	98	66	100	80	298	332	511	602	313	295	128
29	77	93	65	97	-----	255	323	566	609	386	240	129
30	78	97	71	100	-----	290	330	593	608	398	233	132
31	79	-----	69	101	-----	311	-----	568	-----	396	109	-----
TOTAL	3,338	2,596	2,194	2,625	2,918	4,584	9,478	15,234	12,907	14,154	12,543	2,925
MEAN	108	86.5	70.8	84.7	104	148	316	491	430	457	405	97.5
MAX	327	111	92	117	133	413	397	694	612	599	528	132
MIN	75	75	45	33	75	80	207	353	204	268	109	70
AC-FT	6,620	5,150	4,350	5,210	5,790	9,090	18,800	30,220	25,600	28,070	24,880	5,800
CAL YR 1970	TOTAL 77,828		MEAN 213	MAX 675	MIN 45	AC-FT 154,400						
WTR YR 1971	TOTAL 85,496		MEAN 234	MAX 694	MIN 33	AC-FT 169,600						

JORDAN RIVER BASIN

211

10152000 Spanish Fork near Lake Shore, Utah

LOCATION.--Lat 40°09'30", long 111°43'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.7 S., R.2 E., Utah County, on left bank 1 mile upstream from mouth and 2.5 miles north of Lake Shore.

DRAINAGE AREA.--700 sq mi, 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 (from topographic map). Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 miles 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 higher.

AVERAGE DISCHARGE.--51 years (1904-07, 1909-19, 1920-25, 1938-71), 83.1 cfs (60,210 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 459 cfs Mar. 27 (gage height, 8.62 ft); minimum, 0.4 cfs July 18.
Period of record: Maximum discharge observed, 3,020 cfs Apr. 28, 1952; no flow at times.

REMARKS.--Records fair except those for June through August, which are 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 above gage (no flow in canal this year).

REVISIONS (WATER YEARS)--WSP 1314: 1904.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	82	101	86	132	104	247	295	44	2.7	7.9	21
2	46	78	97	92	134	100	223	325	35	12	8.4	7.7
3	40	75	97	78	147	102	226	331	40	5.3	11	17
4	38	75	90	64	143	113	232	340	49	3.8	8.2	24
5	30	75	103	66	135	117	236	306	49	1.6	4.7	22
6	31	77	93	56	116	111	243	245	56	1.4	3.9	21
7	71	98	96	74	114	97	268	219	51	11	8.8	47
8	63	106	104	81	109	109	269	218	58	1.4	.63	72
9	59	91	103	88	108	113	274	237	61	4.3	1.0	54
10	77	92	117	91	115	116	285	198	58	14	2.5	48
11	81	88	106	92	125	125	330	213	46	6.9	4.2	46
12	75	81	92	93	127	127	324	215	36	30	2.5	43
13	62	87	84	102	132	138	293	207	26	19	21	36
14	55	83	89	107	133	140	278	237	23	11	1.4	31
15	62	79	95	109	136	126	215	291	20	7.6	.91	20
16	64	85	98	115	135	127	154	337	19	8.1	1.7	15
17	64	84	100	117	130	129	129	354	22	10	1.5	25
18	61	85	107	123	132	129	112	264	34	.57	1.5	26
19	61	87	93	136	133	124	126	201	38	3.2	3.6	30
20	75	81	109	143	130	126	157	126	22	4.2	1.8	27
21	77	86	101	148	121	138	171	82	26	15	1.4	28
22	79	90	105	149	104	151	199	44	38	20	1.5	34
23	85	87	103	145	102	167	211	28	22	17	2.4	38
24	96	89	87	140	109	184	233	20	16	17	1.4	24
25	94	91	66	137	117	216	237	12	25	20	1.4	13
26	88	110	72	136	115	238	245	5.8	17	23	1.5	12
27	87	123	77	135	98	383	265	2.4	14	8.8	1.7	11
28	79	114	82	134	100	319	269	7.4	11	2.5	17	12
29	76	102	87	134	-----	268	267	10	5.6	3.4	32	17
30	82	101	87	132	-----	278	269	23	2.9	6.5	54	33
31	82	-----	86	131	-----	313	-----	33	-----	7.9	60	-----
TOTAL	2,083	2,682	2,927	3,434	3,432	5,028	6,987	5,426.6	964.5	299.17	271.44	854.7
MEAN	67.2	89.4	94.4	111	123	162	233	175	32.2	9.65	8.76	28.5
MAX	96	123	117	149	147	383	330	354	61	30	60	72
MIN	30	75	66	56	98	97	112	2.4	2.9	.57	.63	7.7
AC-FT	4,130	5,320	5,810	6,810	6,810	9,970	13,860	10,760	1,910	593	538	1,700
CAL YR 1970	TOTAL	26,484.00	MEAN	72.6	MAX	208	MIN	1.0	AC-FT	52,530		
WTR YR 1971	TOTAL	34,389.41	MEAN	94.2	MAX	383	MIN	.57	AC-FT	68,210		

JORDAN RIVER BASIN

10152500 Hobble Creek near Springville, Utah

LOCATION.--Lat 40°09'29", long 111°31'36", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.8 S., R.4 E., Utah County, on right bank 1,000 ft downstream from Springville hydroelectric plant, 1.2 miles downstream from Right Fork, and 4 miles southeast of Springville.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--March 1904 to December 1916, April 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (from topographic map). Prior to June 1, 1909, nonrecording gage at site 200 ft downstream at different datum (destroyed by flood). June 1, 1909 to Dec. 31, 1916, nonrecording gage at site 800 ft upstream at different datum. Apr. 17, 1945 to July 23, 1952, water-stage recorder at same site at datum 1.70 ft higher.

AVERAGE DISCHARGE.--38 years, 47.4 cfs (34,340 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 217 cfs May 3 (gage height, 3.89 ft); minimum, 9.7 cfs Aug. 22, 23.

Period of record: Maximum discharge, 1,250 cfs May 4, 1952 (gage height, 7.83 ft, 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. Several diversions for irrigation above station. Flow regulated by hydroelectric plants at times during low stages. Springville City pipeline (capacity, approximately 5 cfs) diverts water from tributary spring above station (diversion began August 1951).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	21	19	23	23	95	123	85	39	17	17
2	14	24	21	20	27	21	82	154	78	38	20	16
3	14	26	20	16	26	22	83	188	72	36	18	18
4	13	25	22	13	24	22	87	185	69	36	19	18
5	13	23	22	12	25	22	95	159	65	33	18	16
6	15	20	21	13	23	21	107	139	66	28	17	14
7	16	26	21	13	24	20	130	130	65	26	18	20
8	17	23	22	13	24	21	124	134	66	25	19	19
9	19	22	23	16	24	21	135	126	66	27	19	18
10	23	22	23	18	25	22	158	117	67	23	18	17
11	20	22	21	19	24	22	180	123	76	21	18	18
12	20	22	20	20	24	21	179	132	72	21	15	18
13	20	21	19	20	24	24	170	131	67	20	17	17
14	21	20	20	20	25	22	167	139	61	22	16	17
15	20	20	22	20	26	23	172	158	63	20	14	18
16	20	20	22	20	25	22	186	165	65	22	16	18
17	20	19	23	21	25	23	182	147	65	22	16	18
18	20	20	22	23	26	21	161	123	61	23	17	18
19	18	19	19	24	26	20	132	107	52	23	17	18
20	17	19	21	26	25	22	115	97	47	25	17	19
21	19	20	21	25	24	23	104	88	44	25	17	18
22	20	19	22	24	23	24	96	85	48	24	17	19
23	18	19	21	24	23	28	97	87	51	24	14	19
24	21	19	19	23	24	40	99	81	49	22	17	19
25	19	19	16	23	24	43	97	77	48	21	15	17
26	20	26	14	22	23	54	94	75	47	19	16	17
27	20	25	15	22	22	102	96	78	45	20	16	18
28	21	23	18	22	23	105	99	79	43	19	18	18
29	21	21	19	23	-----	93	103	79	42	20	19	18
30	24	23	20	23	-----	116	106	87	41	20	19	18
31	24	-----	19	23	-----	132	-----	88	-----	18	18	-----
TOTAL	583	650	629	620	681	1,195	3,731	3,681	1,786	762	532	533
MEAN	18.8	21.7	20.3	20.0	24.3	38.5	124	119	59.5	24.6	17.2	17.8
MAX	24	26	23	26	27	132	186	188	85	39	20	20
MIN	13	19	14	12	22	20	82	75	41	18	14	14
AC-FT	1,160	1,290	1,250	1,230	1,350	2,370	7,400	7,300	3,540	1,510	1,060	1,060
CAL YR 1970	TOTAL 12,286	MEAN 33.7	MAX 160	MIN 12	AC-FT 24,370							
WTR YR 1971	TOTAL 15,383	MEAN 42.1	MAX 188	MIN 12	AC-FT 30,510							

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-31	0400	3.44	150	5-03	2000	3.89	217
4-16	2200	3.81	211	5-16	1100	3.65	179

JORDAN RIVER BASIN

213

10152700 Maple Creek near Mapleton, Utah

LOCATION.--Lat 40°08'01", long 111°30'23", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.8 S., R.4 E., Utah County, on right bank, 0.8 mile upstream from Right Fork, 2.2 miles above mouth of canyon, and 4 miles east of Mapleton.

DRAINAGE AREA.--3.13 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 2.44 cfs (1,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23 cfs May 14 (gage height, 1.11 ft); minimum daily, 0.92 cfs on Dec. 27 to Jan. 2.
Period of record: Maximum discharge, 42 cfs May 17, 1965 (gage height, 1.33 ft); minimum, 0.6 cfs Dec. 13, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.2	1.3	.92	1.3	1.3	3.0	3.6	3.3	2.0	2.1	1.7
2	1.3	1.2	1.3	.92	1.5	1.2	2.6	5.3	3.1	2.0	2.1	1.7
3	1.3	1.2	1.3	1.0	1.5	1.2	2.5	9.0	3.0	2.0	2.1	1.8
4	1.3	1.2	1.3	1.0	1.4	1.2	2.7	13	2.9	2.0	2.1	1.7
5	1.3	1.2	1.3	1.0	1.4	1.2	2.9	11	2.8	2.1	2.1	1.7
6	1.6	1.2	1.2	1.0	1.3	1.2	3.3	9.1	2.6	2.1	2.1	1.7
7	1.4	1.4	1.2	1.0	1.3	1.2	3.9	8.1	2.6	2.1	2.1	1.9
8	1.3	1.3	1.2	1.0	1.3	1.2	4.2	8.4	2.6	2.0	2.1	1.7
9	1.4	1.3	1.3	1.0	1.3	1.2	4.5	8.0	2.6	2.0	2.2	1.6
10	1.5	1.4	1.2	1.0	1.3	1.2	5.6	7.6	2.6	2.0	2.1	1.6
11	1.3	1.5	1.2	1.0	1.3	1.2	6.2	8.4	2.7	2.0	2.2	1.6
12	1.3	1.5	1.2	1.0	1.3	1.3	6.1	7.6	2.4	2.0	2.2	1.6
13	1.3	1.4	1.2	1.0	1.3	1.4	6.1	14	2.4	2.0	2.2	1.5
14	1.3	1.3	1.1	1.0	1.4	1.3	6.4	17	2.3	2.0	2.2	1.5
15	1.3	1.3	1.1	1.0	1.6	1.4	7.0	19	2.3	2.1	2.2	1.5
16	1.3	1.3	1.1	1.0	1.6	1.3	7.6	18	2.3	2.1	2.1	1.5
17	1.3	1.3	1.1	1.0	1.5	1.3	7.9	10	2.3	2.1	2.1	1.5
18	1.3	1.4	1.1	1.3	1.5	1.3	7.5	7.2	2.2	2.1	2.1	1.5
19	1.3	1.5	1.1	1.2	1.5	1.2	6.2	6.8	2.2	2.1	2.1	1.5
20	1.3	1.5	1.1	1.2	1.4	1.3	5.3	6.1	2.1	2.1	2.0	1.5
21	1.3	1.5	1.1	1.1	1.3	1.4	4.5	5.8	2.1	2.1	2.0	1.5
22	1.3	1.5	1.0	1.1	1.3	1.6	3.8	5.8	2.1	2.1	2.0	1.5
23	1.3	1.5	1.0	1.1	1.3	1.9	3.4	5.5	2.1	2.1	2.0	1.5
24	1.4	1.5	1.0	1.1	1.3	2.3	3.4	5.0	2.1	2.0	2.0	1.5
25	1.2	1.5	1.0	1.1	1.3	2.3	3.4	4.7	2.1	2.0	2.0	1.5
26	1.2	1.6	.97	1.1	1.3	2.6	3.4	4.5	2.1	2.0	1.9	1.5
27	1.2	1.6	.92	1.1	1.3	3.6	3.2	4.3	2.1	2.0	1.9	1.5
28	1.2	1.3	.92	1.1	1.3	3.4	3.1	4.2	2.1	2.1	1.9	1.5
29	1.2	1.4	.92	1.1	-----	3.1	3.1	4.0	2.1	2.1	1.9	1.5
30	1.2	1.4	.92	1.2	-----	3.4	3.1	4.1	2.0	2.1	1.9	1.5
31	1.2	-----	.92	1.2	-----	3.6	-----	3.6	-----	2.1	1.9	-----
TOTAL	40.4	41.4	34.57	32.84	38.4	54.3	135.9	248.7	72.2	63.6	63.9	47.3
MEAN	1.30	1.38	1.12	1.06	1.37	1.75	4.53	8.02	2.41	2.05	2.06	1.58
MAX	1.6	1.6	1.3	1.3	1.6	3.6	7.9	19	3.3	2.1	2.2	1.9
MIN	1.2	1.2	.92	.92	1.3	1.2	2.5	3.6	2.0	2.0	1.9	1.5
AC-FT	80	82	69	65	76	108	270	493	143	126	127	94
CAL YR 1970	TOTAL 757.17		MEAN 2.07	MAX 20	MIN .92	AC-FT 1,500						
WTR YR 1971	TOTAL 873.51		MEAN 2.39	MAX 19	MIN .92	AC-FT 1,730						

PEAK DISCHARGE (BASE, 4.0 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-16	1700	0.93	8.0	5-14	2400	1.11	23
5-04	1400	1.03	14				

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 upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 miles southeast of Kamas.

DRAINAGE AREA.--25 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 41.9 cfs (30,360 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 586 cfs June 17 (gage height, 2.84 ft); minimum, 3.8 cfs Nov. 3.

Period of record: Maximum discharge, 586 cfs June 17, 1971 (gage height, 2.84 ft); minimum recorded, 1.9 cfs several days during winter of 1964-65.

REMARKS.--Records good except those for winter periods, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	7.6	9.0	7.0	9.0	7.8	25	40	131	88	39	9.5
2	5.7	7.7	9.0	7.0	9.0	7.8	20	60	116	79	38	8.4
3	5.5	7.7	8.0	7.0	9.0	7.8	28	96	113	76	37	9.6
4	5.3	7.7	8.0	7.0	8.0	7.8	30	118	128	69	38	8.5
5	5.2	6.8	8.0	7.0	8.0	7.8	34	91	135	64	37	7.6
6	6.7	6.6	8.0	7.0	8.0	7.5	41	78	140	59	36	7.2
7	7.3	7.7	8.0	7.0	8.0	7.5	47	79	188	56	39	17
8	6.5	7.8	8.0	7.0	8.0	7.5	48	76	225	53	37	12
9	7.8	8.0	8.0	7.0	8.0	7.5	60	72	218	52	34	8.6
10	9.1	7.7	8.0	7.0	8.0	7.5	79	71	269	51	31	7.7
11	9.0	8.0	7.5	7.0	8.0	7.5	92	84	245	48	29	7.4
12	9.1	8.1	7.0	7.0	8.0	7.5	99	115	181	45	28	6.9
13	9.2	7.8	7.0	7.0	8.0	7.5	110	128	197	44	27	6.4
14	8.2	7.0	7.0	7.0	8.0	7.5	117	165	285	44	25	6.1
15	7.8	7.0	7.0	7.0	8.0	7.5	125	193	366	54	22	5.9
16	7.5	7.0	7.0	7.0	8.0	7.5	141	197	406	56	21	5.7
17	7.4	7.0	7.0	7.0	8.0	7.5	146	150	442	57	20	6.1
18	6.8	7.0	7.0	7.0	8.0	7.5	124	123	371	59	19	6.2
19	6.9	7.0	7.0	8.2	8.0	8.5	107	102	379	59	17	6.1
20	6.8	7.0	7.0	9.0	8.0	8.5	93	89	374	57	16	5.9
21	7.3	7.0	7.0	9.0	7.0	8.2	75	86	378	54	15	5.9
22	7.7	7.4	7.0	9.0	7.0	8.2	60	90	383	53	16	5.8
23	8.2	7.4	7.0	9.0	8.0	8.9	45	80	355	53	15	5.6
24	8.8	8.0	7.0	9.0	8.9	9.2	41	101	318	52	13	5.4
25	8.6	8.3	7.0	9.0	8.5	9.2	39	151	283	50	13	5.4
26	8.0	8.0	7.0	9.0	8.2	12	37	210	250	48	12	5.2
27	7.5	8.2	7.0	9.0	7.8	16	35	270	211	47	12	5.3
28	7.5	8.4	7.0	9.0	7.8	17	33	291	171	45	12	5.1
29	7.5	9.2	7.0	9.0	-----	17	32	250	155	45	13	5.0
30	7.5	9.0	7.0	9.0	-----	20	34	188	117	43	12	5.7
31	7.5	-----	7.0	9.0	-----	21	-----	150	-----	41	11	-----
TOTAL	229.7	229.1	229.5	243.4	226.2	300.2	1,997	3,994	7,530	1,701	734	213.2
MEAN	7.41	7.64	7.40	7.85	8.08	9.68	66.6	129	251	54.9	23.7	7.11
MAX	9.2	9.2	9.0	9.0	9.0	21	146	291	442	88	39	17
MIN	5.2	6.6	7.0	7.0	7.0	7.5	20	40	113	41	11	5.0
AC-FT	456	454	455	483	449	595	3,960	7,920	14,940	3,370	1,460	423

CAL YR 1970 TOTAL 12,945.2 MEAN 35.5 MAX 303 MIN 4.1 AC-FT 25,680
WTR YR 1971 TOTAL 17,627.3 MEAN 48.3 MAX 442 MIN 5.0 AC-FT 34,960

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-15	2400	1.98	220	6-09	2200	2.18	318
5-27	2200	2.26	346	6-17	2100	2.84	586

JORDAN RIVER BASIN

215

10154000 Shingle Creek near Kamas, Utah

LOCATION.--Lat 40°36'45", long 111°06'57", in S½ sec.26, T.2 S., R.7 E., Summit County, Wasatch National Forest, on right bank 500 ft upstream from point of diversion into Beaver Creek, 1,500 ft upstream from State Highway 150, and 8.5 miles southeast of Kamas.

DRAINAGE AREA.--8.4 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,700 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 15.8 cfs (11,450 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 238 cfs June 17 (gage height, 3.28 ft); maximum gage height, 4.06 ft, Jan. 19 (backwater from ice); minimum discharge, 1.6 cfs Nov. 11, 26.

Period of record: Maximum discharge, 238 cfs June 17, 1971 (gage height, 3.28 ft); maximum gage height, 4.06 ft Jan. 19, 1971 (backwater from ice); minimum discharge recorded, 0.8 cfs Aug. 23, 1963.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.0	3.5	3.4	4.0	3.5	6.5	22	61	36	4.7	2.9
2	2.3	3.0	3.2	3.4	4.2	3.6	6.6	30	55	32	4.4	2.8
3	2.3	3.0	3.2	3.4	4.2	3.5	6.8	42	51	29	4.3	3.6
4	2.3	3.0	3.2	3.2	3.8	3.5	7.1	48	52	26	4.2	3.4
5	2.4	3.0	3.2	3.2	4.2	3.5	8.2	38	56	23	5.7	3.1
6	2.9	2.8	3.1	3.2	4.0	3.4	10	34	66	21	5.5	2.9
7	2.9	2.9	3.1	3.2	4.0	3.3	11	33	90	19	5.5	9.5
8	2.7	3.1	3.1	3.2	3.8	3.4	12	31	107	18	5.5	5.0
9	3.1	3.0	3.2	3.2	3.8	3.3	14	29	110	16	5.0	3.6
10	3.4	3.1	3.4	3.2	3.8	3.3	18	30	122	15	4.5	3.2
11	3.8	3.0	3.2	3.4	3.8	3.3	21	32	103	14	4.2	3.0
12	3.7	3.0	3.0	3.4	3.7	3.2	22	42	81	12	4.1	2.9
13	3.7	3.0	3.1	3.4	3.7	3.3	25	50	87	11	3.9	2.8
14	3.3	3.0	3.1	3.4	3.9	3.2	28	71	123	10	3.7	2.7
15	3.3	3.1	3.2	3.4	3.9	3.2	30	89	158	9.6	3.6	2.7
16	3.1	3.0	3.2	3.4	3.9	3.1	35	92	162	9.2	3.6	2.6
17	3.0	2.8	3.4	3.4	3.9	3.2	36	68	176	9.2	3.5	2.7
18	2.9	2.8	3.5	3.5	3.9	3.1	31	54	145	9.2	3.6	2.8
19	2.9	2.9	3.4	3.5	3.9	3.1	25	44	135	8.9	3.4	2.7
20	2.8	2.9	3.4	3.5	3.8	3.2	22	39	127	8.2	3.2	2.7
21	2.9	2.9	3.4	3.5	3.6	3.3	20	38	121	7.9	3.3	2.7
22	3.1	2.9	3.4	3.5	3.6	3.5	19	41	114	7.7	3.6	2.8
23	3.6	2.9	3.5	3.5	3.7	3.6	18	37	109	7.6	3.6	2.7
24	3.4	3.1	3.5	3.5	3.6	3.7	17	48	103	7.0	3.3	2.7
25	3.2	3.1	3.5	3.5	3.7	3.6	17	75	82	6.6	3.3	2.6
26	3.0	3.0	3.5	3.5	3.7	4.2	16	99	73	6.1	3.2	2.6
27	3.0	3.0	3.5	3.5	3.7	4.7	16	122	63	6.0	3.2	2.6
28	3.0	3.0	3.4	3.5	3.2	5.7	15	133	55	5.7	3.3	2.6
29	3.0	3.2	3.4	3.5	-----	6.3	15	117	48	5.4	3.7	2.6
30	3.0	3.4	3.4	3.8	-----	6.4	17	88	40	4.9	3.4	2.7
31	3.0	-----	3.4	3.8	-----	6.4	-----	71	-----	5.0	3.1	-----
TOTAL	93.4	89.9	102.6	106.0	107.0	117.6	545.2	1,787	2,875	406.2	123.1	94.2
MEAN	3.01	3.00	3.31	3.42	3.82	3.79	18.2	57.6	95.8	13.1	3.97	3.14
MAX	3.8	3.4	3.5	3.8	4.2	6.4	36	133	176	36	5.7	9.5
MIN	2.3	2.8	3.0	3.2	3.2	3.1	6.5	22	40	4.9	3.1	2.6
AC-FT	185	178	204	210	212	233	1,080	3,540	5,700	806	244	187

CAL YR 1970 TOTAL 5,089.4 MEAN 13.9 MAX 126 MIN 2.3 AC-FT 10,090

WTR YR 1971 TOTAL 6,447.2 MEAN 17.7 MAX 176 MIN 2.3 AC-FT 12,790

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-03	2100	2.31	57	5-27	2100	2.91	151
5-15	2300	2.65	103	6-17	2000	3.28	238

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 downstream from Twin Pine Bridge, 1.5 miles downstream from South Fork and 3.5 miles southeast of Woodland.

DRAINAGE AREA.--170 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 234 cfs (169,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,720 cfs May 27 (gage height, 4.45 ft); minimum, 28 cfs Nov. 14.

Period of record: Maximum discharge, 2,270 cfs May 24, 1964 (gage height, 5.04 ft); minimum, 25 cfs 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	71	80	76	81	73	141	295	763	379	154	121
2	66	66	80	76	82	73	135	405	716	431	151	118
3	63	63	67	63	79	73	139	559	694	561	154	117
4	63	64	73	63	63	76	143	654	741	522	154	111
5	64	69	79	67	77	74	156	546	778	482	161	105
6	67	67	70	65	72	74	184	498	769	445	139	100
7	71	76	71	68	75	75	208	520	901	432	139	146
8	67	77	80	72	78	75	206	503	1,050	405	141	119
9	71	74	76	77	80	74	243	474	996	385	135	108
10	82	77	74	81	81	71	303	475	1,130	364	126	102
11	73	69	64	80	77	67	355	522	1,010	337	120	97
12	80	79	53	77	72	66	380	673	815	313	119	93
13	77	73	50	72	73	69	407	747	825	305	116	91
14	71	51	64	74	74	67	440	939	1,030	296	112	90
15	70	64	74	73	74	66	471	1,130	1,240	300	125	89
16	69	74	70	78	73	66	515	1,230	1,280	289	127	99
17	67	70	74	82	74	66	538	933	1,270	284	123	100
18	69	73	74	98	74	63	480	756	1,180	289	122	100
19	69	70	64	128	72	62	412	642	1,070	355	120	90
20	66	64	69	145	69	71	376	586	1,030	306	120	87
21	67	76	79	121	57	70	342	570	952	280	128	87
22	70	73	74	109	62	73	315	617	943	265	129	83
23	65	74	68	103	68	76	312	582	911	259	126	77
24	77	77	67	98	72	80	298	683	883	248	122	75
25	69	82	66	92	75	78	284	968	829	237	123	73
26	67	77	69	87	71	94	268	1,210	757	222	121	71
27	63	88	75	83	73	126	254	1,430	684	197	124	70
28	62	85	81	80	73	123	242	1,530	587	173	131	70
29	73	76	77	77	-----	128	232	1,310	520	169	135	71
30	74	82	78	82	-----	158	243	1,030	454	164	129	76
31	74	-----	76	80	-----	169	-----	855	-----	160	126	-----
TOTAL	2,149	2,181	2,216	2,627	2,051	2,576	9,022	23,872	26,808	9,854	4,052	2,836
MEAN	69.3	72.7	71.5	84.7	73.3	83.1	301	770	894	318	131	94.5
MAX	82	88	81	145	82	169	538	1,530	1,280	561	161	146
MIN	62	51	50	63	57	62	135	295	454	160	112	70
AC-FT	4,260	4,330	4,400	5,210	4,070	5,110	17,900	47,350	53,170	19,550	8,040	5,630

CAL YR 1970 TOTAL 78,817 MEAN 216 MAX 1,840 MIN 44 AC-FT 156,300
WTR YR 1971 TOTAL 90,244 MEAN 247 MAX 1,530 MIN 50 AC-FT 179,000

JORDAN RIVER BASIN

217

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 upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft (from river-profile map). Prior to Nov. 20, 1964, at datum 1.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 3,010 cfs May 28 (gage height, 7.57 ft); minimum, 50 cfs Mar. 19.

Period of record: Maximum discharge, 3,880 cfs June 4, 1957 (gage height, 7.28 ft, datum then in use); minimum, 11 cfs Aug. 20, 1960.

REMARKS.--Records good except those for winter period, 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	94	158	135	105	95	205	500	1,020	596	132	108
2	71	88	154	135	107	90	198	621	845	668	129	104
3	69	84	145	135	98	107	205	853	779	808	125	122
4	68	82	137	135	99	105	204	1,090	832	680	130	110
5	68	93	154	135	102	98	224	933	882	632	136	100
6	91	90	136	135	103	96	260	813	866	572	129	94
7	95	128	139	135	104	101	296	832	1,110	548	117	154
8	86	129	154	135	107	99	288	816	1,610	520	117	138
9	91	120	148	135	108	89	329	792	1,430	495	112	115
10	116	142	144	135	114	90	385	752	1,570	450	104	113
11	97	127	130	135	110	87	437	767	1,430	414	94	109
12	99	145	133	135	95	91	456	1,010	970	390	90	105
13	99	138	125	135	97	98	486	1,150	836	386	90	101
14	94	103	135	135	99	93	537	1,400	994	362	87	96
15	92	112	135	135	102	94	691	1,800	1,290	349	91	94
16	91	137	135	135	96	91	933	2,060	1,390	318	98	100
17	90	130	135	135	100	94	1,030	1,830	1,390	308	93	104
18	90	133	135	142	99	87	969	1,570	1,320	286	88	107
19	90	125	135	165	95	82	825	1,240	1,200	377	90	101
20	87	117	135	191	90	98	750	1,050	1,150	326	91	97
21	91	135	135	176	76	104	702	1,120	1,110	298	99	96
22	100	128	135	162	88	113	664	1,040	1,110	274	100	93
23	94	128	135	150	96	125	632	909	1,100	253	101	89
24	113	137	135	138	103	146	602	957	1,100	238	95	85
25	100	149	135	128	98	145	574	1,450	1,040	223	104	80
26	92	162	135	118	89	200	553	1,920	1,030	211	106	80
27	92	159	135	106	86	253	523	2,470	962	189	105	80
28	84	153	135	103	101	213	490	2,600	801	161	119	79
29	99	138	135	99	-----	208	463	2,200	668	149	130	79
30	98	165	135	105	-----	250	459	1,560	620	144	118	87
31	100	-----	135	103	-----	262	-----	1,270	-----	138	114	-----
TOTAL	2,814	3,771	4,287	4,181	2,767	3,904	15,370	39,375	32,455	11,763	3,334	3,020
MEAN	90.8	126	138	135	98.8	126	512	1,270	1,082	379	108	101
MAX	116	165	158	191	114	262	1,030	2,600	1,610	808	136	154
MIN	67	82	125	99	76	82	198	500	620	138	87	79
AC-FT	5,580	7,480	8,500	8,290	5,490	7,740	30,490	78,100	64,370	23,330	6,610	5,990
CAL YR 1970	TOTAL	105,056	MEAN	288	MAX	2,660	MIN	59	AC-FT	208,400		
WTR YR 1971	TOTAL	127,041	MEAN	348	MAX	2,600	MIN	67	AC-FT	252,000		

LOCATION.--Lat 40°24'12", long 111°31'44", in NE₁NE₁NE₁ sec.7, T.5 S., R.4 E., Wasatch County, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4 miles northeast of Vivian Park.

AVERAGE DISCHARGE.--18 years, 364 cfs (263,700 acre-ft per year).

Period of record: Maximum discharge, 2,190 cfs June 26, 1957 (gage height, 6.74 ft); 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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	284	358	356	256	180	322	533	782	602	534	432
2	358	282	351	356	257	166	323	533	961	556	531	432
3	358	284	351	353	256	167	325	536	957	562	527	430
4	361	286	351	353	255	167	326	536	817	577	522	412
5	305	284	351	356	256	167	327	536	740	592	539	415
6	253	281	353	360	255	167	329	545	740	598	546	428
7	174	284	353	367	256	165	323	554	728	599	545	404
8	158	284	353	365	311	160	318	554	710	577	550	405
9	140	284	354	358	339	156	319	554	713	561	537	400
10	139	284	353	358	336	156	321	557	722	557	527	395
11	139	284	353	294	328	156	320	566	734	558	529	398
12	139	284	353	234	327	156	369	575	928	558	535	412
13	139	284	353	234	327	158	416	585	1,000	552	537	398
14	140	285	353	234	283	158	439	588	1,000	546	539	378
15	139	285	353	234	244	157	479	585	995	542	546	392
16	150	286	353	234	244	156	521	585	956	571	547	383
17	167	286	353	234	245	156	533	588	1,070	579	540	383
18	167	181	353	237	244	159	536	585	1,180	575	530	390
19	165	290	353	238	245	174	533	578	1,180	560	534	386
20	165	343	353	235	245	174	521	588	1,180	534	530	388
21	230	371	353	236	244	175	513	604	1,070	528	540	381
22	282	368	353	236	244	177	510	626	846	533	544	360
23	282	357	353	236	245	229	518	626	775	530	535	286
24	282	351	353	236	245	257	536	623	778	529	518	292
25	278	347	353	236	246	258	536	488	742	509	509	292
26	282	357	353	236	248	309	536	623	684	416	488	288
27	284	356	353	246	248	338	536	622	688	418	478	276
28	284	357	353	257	248	340	536	624	693	547	479	264
29	286	361	353	255	-----	340	536	622	654	537	481	255
30	286	362	356	255	-----	342	536	625	638	539	450	262
31	286	-----	356	256	-----	332	-----	628	-----	538	422	-----
TOTAL	7,190	9,232	10,947	8,675	7,477	6,352	13,193	17,972	25,661	16,980	16,169	11,017
MEAN	232	308	353	280	267	205	440	580	855	548	522	367
MAX	372	371	358	367	339	342	536	628	1,180	602	550	432
MIN	139	181	351	234	244	156	318	488	638	416	422	255
AC-FT	14,260	18,310	21,710	17,210	14,830	12,600	26,170	35,650	50,900	33,680	32,070	21,850
CAL YR 1970	TOTAL	135,025	MEAN	370	MAX	1,090	MIN	105	AC-FT	267,800	</	

JORDAN RIVER BASIN

219

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 upstream from mouth and U.S. Highway 189 at Wildwood.

DRAINAGE AREA.--12.3 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,420 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 17.1 cfs (12,390 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 88 cfs June 24 (gage height, 1.79 ft); minimum 3.8 cfs Mar. 19.

Period of record: Maximum discharge, 225 cfs May 10, 1966 (gage height, 1.94 ft); maximum gage height, 3.65 ft May 23, 1967; minimum discharge, 0.31 cfs Dec. 19, 1967.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.4	6.3	5.2	5.6	4.4	6.0	9.5	27	39	17	11
2	8.0	7.3	6.3	5.2	5.6	4.4	6.1	10	24	38	17	11
3	8.0	7.1	6.1	5.0	5.6	4.4	6.3	14	21	39	17	13
4	8.0	7.1	6.1	5.0	5.6	4.4	6.8	16	20	39	17	12
5	8.0	7.1	6.0	5.0	5.6	4.4	7.0	18	19	38	16	11
6	8.0	7.1	6.0	5.0	5.6	4.4	7.9	20	19	38	16	11
7	8.0	7.8	6.0	5.0	5.6	4.4	8.0	21	19	38	16	13
8	8.0	7.1	6.0	5.0	5.6	4.4	8.8	21	24	37	16	12
9	8.0	7.1	6.1	5.0	5.6	4.4	9.3	20	31	38	16	11
10	8.0	7.3	6.0	5.0	5.6	4.4	10	18	39	37	15	11
11	8.0	7.1	5.8	5.0	5.6	4.4	11	18	37	34	15	11
12	8.0	7.3	5.7	5.2	5.0	4.4	12	18	29	32	14	11
13	8.0	6.8	5.6	5.2	5.0	4.4	14	20	27	31	14	10
14	8.0	6.8	5.6	5.2	5.0	4.4	16	23	23	31	13	10
15	8.0	6.8	5.6	5.2	5.0	4.4	18	26	27	30	13	10
16	7.9	6.6	5.6	5.2	5.0	4.4	19	30	33	31	13	10
17	8.1	6.3	5.7	5.2	5.0	4.4	21	30	46	30	13	10
18	8.2	6.3	5.6	5.6	5.0	4.4	21	28	43	30	13	10
19	8.2	6.3	5.4	5.6	5.0	4.4	19	25	40	29	13	10
20	8.3	6.3	5.4	5.6	5.0	4.4	18	21	48	28	13	9.9
21	8.5	6.1	5.4	5.6	4.5	4.4	17	20	49	27	12	9.6
22	9.2	6.1	5.2	5.6	4.5	4.5	14	20	54	26	12	9.3
23	8.6	6.1	5.2	5.6	4.5	4.7	14	20	69	23	12	8.6
24	9.8	6.1	5.2	5.6	4.5	4.9	13	20	58	22	11	8.6
25	8.7	6.6	5.2	5.6	4.5	4.9	12	20	54	20	11	8.6
26	8.6	7.4	5.2	5.6	4.5	5.2	11	23	51	19	11	8.6
27	8.3	6.8	5.2	5.6	4.5	5.4	11	30	47	19	10	8.6
28	8.2	6.3	5.2	5.6	4.5	5.4	11	32	39	19	11	8.6
29	7.8	6.3	5.2	5.6	-----	5.4	10	34	38	18	12	8.8
30	7.5	6.8	5.2	5.6	-----	5.6	9.5	29	38	18	11	9.0
31	7.4	-----	5.2	5.6	-----	5.8	-----	27	-----	17	11	-----
TOTAL	253.3	203.6	174.3	165.0	142.6	144.2	367.7	681.5	1,093	915	421	306.2
MEAN	8.17	6.79	5.62	5.32	5.09	4.65	12.3	22.0	36.4	29.5	13.6	10.2
MAX	9.8	7.8	6.3	5.6	5.6	5.8	21	34	69	39	17	13
MIN	7.4	6.1	5.2	5.0	4.5	4.4	6.0	9.5	19	17	10	8.6
AC-FT	502	404	346	327	283	286	729	1,350	2,170	1,810	835	607
CAL YR 1970	TOTAL 4,955.4	MEAN 13.6	MAX 59	MIN 5.2	AC-FT 9,830							
WTR YR 1971	TOTAL 4,867.4	MEAN 13.3	MAX 69	MIN 4.4	AC-FT 9,650							

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	1500	1.29	32	6-11	1200	1.58	49
5-29	1200	1.37	36	6-24	0100	1.79	88

NOTE.--No gage-height record Dec. 24 to March 17.

JORDAN RIVER BASIN

10163000 Provo River at Provo, Utah

LOCATION.--Lat 40°14'16", long 111°41'55", in NE¼NW¼SE¼ sec.3, T.7 S., R.2 E., Utah County, on left bank 1,300 ft downstream from bridge on State Highway 114, 2 miles west of Provo and 2 miles upstream from mouth.

DRAINAGE AREA.--680 sq mi, 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 (from topographic map). May 1903 to June 1905, nonrecording gages at site 0.8 mile 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 upstream at different datum. November 1938 to Aug. 23, 1957, water-stage recorder at present site at datum 2.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 661 cfs June 18 (gage height, 4.28 ft); minimum, 4.5 cfs July 30.

Period of record: Maximum discharge, 2,520 cfs May 6, 1952 (gage height, 6.37 ft); no flow for several periods.

REMARKS.--Records fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	330	396	382	295	224	350	313	235	78	12	5.4
2	27	331	386	384	306	186	344	305	443	36	14	7.2
3	33	334	381	384	307	187	332	280	441	9.3	15	18
4	42	330	381	377	299	185	334	241	383	8.4	12	25
5	34	322	379	376	298	181	329	233	229	7.6	14	17
6	39	323	379	366	294	180	325	228	210	7.2	11	14
7	40	344	379	370	292	183	322	227	193	6.4	8.0	33
8	38	334	379	378	328	183	312	236	165	7.2	7.6	38
9	31	325	379	382	381	174	305	234	171	12	9.3	30
10	38	322	379	382	393	177	312	232	189	12	8.0	12
11	42	321	381	368	392	165	322	222	255	12	7.6	14
12	48	329	379	267	386	165	307	212	371	13	8.8	14
13	59	329	377	263	386	165	310	191	469	13	13	13
14	76	330	374	260	374	164	291	190	460	11	14	11
15	119	319	373	258	285	163	275	175	456	8.4	12	13
16	131	319	373	261	281	163	253	162	433	6.8	12	12
17	153	314	378	268	280	162	225	172	494	16	15	8.6
18	155	201	378	287	281	157	246	177	628	17	25	10
19	152	314	379	291	283	172	263	171	612	21	23	15
20	157	344	379	288	279	171	302	162	609	16	23	17
21	190	394	380	283	280	170	346	152	548	7.6	21	22
22	270	410	379	285	278	170	331	147	369	8.0	16	18
23	289	401	380	279	276	211	332	140	251	9.6	17	18
24	317	392	379	275	277	265	329	131	286	11	12	18
25	308	388	379	274	276	264	339	79	229	13	15	19
26	310	411	380	271	283	298	356	103	170	15	16	27
27	329	418	379	276	282	353	362	114	171	14	9.6	26
28	332	407	384	293	283	367	356	116	147	7.2	12	24
29	336	399	382	296	-----	367	340	138	120	5.7	26	22
30	337	401	381	296	-----	369	328	208	92	8.0	26	41
31	335	-----	382	298	-----	370	-----	203	-----	11	7.2	-----
TOTAL	4,791	10,436	11,774	9,718	8,655	6,711	9,478	5,894	9,829	428.4	442.1	562.2
MEAN	155	348	380	313	309	216	316	190	328	13.8	14.3	18.7
MAX	337	418	396	384	393	370	362	313	628	78	26	41
MIN	24	201	373	258	276	157	225	79	92	5.7	7.2	5.4
AC-FT	9,500	20,700	23,350	19,280	17,170	13,310	18,800	11,690	19,500	850	877	1,120

CAL YR 1970 TOTAL 72,251.3 MEAN 198 MAX 810 MIN 5.4 AC-FT 143,300

WTR YR 1971 TOTAL 78,718.7 MEAN 216 MAX 628 MIN 5.4 AC-FT 156,100

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¼NW¼ sec.26, T.4 S., R.2 E., Utah county, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper powerplant of Utah Power & Light Co., 4 miles upstream from mouth of canyon, and 8 miles northeast of American Fork.

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945. published in WSP 1314.

AVERAGE DISCHARGE.--44 years, 53.4 cfs (38,690 acre-ft per year).

REMARKS.--Records good. No diversion above station. Flow can be regulated by a flood-control reservoir.

REVISIONS.--WSP 1634: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	20	16	20	21	27	55	163	138	40	32
2	20	18	20	16	21	20	27	72	151	129	38	32
3	20	18	19	16	20	20	28	90	148	124	38	33
4	20	18	20	16	16	19	30	114	154	122	40	31
5	19	18	20	16	18	18	32	106	163	116	41	31
6	20	19	18	16	19	18	38	99	174	112	40	30
7	20	20	18	16	18	16	45	92	183	102	38	50
8	20	19	20	16	18	17	43	90	221	100	37	38
9	22	18	20	16	18	17	48	85	248	99	38	33
10	27	19	20	16	19	17	59	81	279	88	36	31
11	23	18	18	16	20	16	57	85	272	88	36	32
12	23	20	16	16	20	17	72	104	221	90	36	30
13	23	19	14	16	20	17	76	129	192	88	34	28
14	20	17	16	16	20	16	78	134	211	92	34	28
15	20	17	18	16	21	16	85	163	251	81	34	27
16	20	19	18	16	21	16	102	177	279	85	34	27
17	20	19	18	19	21	16	99	148	297	78	36	27
18	20	20	18	32	21	15	85	129	276	78	36	27
19	20	19	15	41	22	15	78	118	258	72	37	27
20	20	18	16	34	21	16	74	114	248	66	36	26
21	20	20	16	28	18	16	70	109	237	68	36	26
22	21	20	16	26	18	17	66	114	241	64	36	26
23	19	19	14	25	18	18	59	114	231	55	34	26
24	20	19	15	24	19	18	55	129	224	52	36	25
25	19	21	16	23	21	18	52	166	208	48	36	25
26	19	23	16	21	20	20	49	192	192	45	34	24
27	18	20	16	20	20	23	48	224	180	45	33	24
28	16	20	16	20	20	24	46	231	157	43	36	24
29	18	20	16	20	-----	25	45	214	151	43	41	24
30	18	21	16	20	-----	28	48	189	146	41	37	25
31	18	-----	16	20	-----	31	-----	171	-----	40	34	-----
TOTAL	623	574	535	629	548	581	1,721	4,038	6,356	2,492	1,132	869
MEAN	20.1	19.1	17.3	20.3	19.6	18.7	57.4	130	212	80.4	36.5	29.0
MAX	27	23	20	41	22	31	102	231	297	138	41	50
MIN	16	17	14	16	16	15	27	55	146	40	33	24
AC-FT	1,240	1,140	1,060	1,250	1,090	1,150	3,410	8,010	12,610	4,940	2,250	1,720
CAL YR 1970	TOTAL 17,355.8		MEAN 47.6	MAX 294	MIN 1.8	AC-FT 34,430						
WTR YR 1971	TOTAL 20,098.0		MEAN 55.1	MAX 297	MIN 14	AC-FT 39,860						

JORDAN RIVER BASIN

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 upstream from road bridge, 160 ft downstream from Left Fork, 750 ft upstream from a right bank diversion, and 5.3 miles north of Cedar Fort.

DRAINAGE AREA.--26.8 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 3.71 cfs (2,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,660 cfs Aug. 28 (gage height, 7.50 ft); minimum, 0.50 cfs Dec. 21.

Period of record: Maximum discharge, 1,660 cfs Aug. 28, 1971 (gage height, 7.50 ft), from slope-area measurement; minimum, 0.02 cfs Jan. 17, 22, 1967.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.86	.77	.71	.65	.70	7.3	13	13	8.5	3.1	1.6
2	1.0	.86	.77	.65	.66	.70	8.1	14	12	8.1	3.0	1.6
3	1.0	.79	.75	.65	.65	.70	8.5	14	12	8.0	3.0	1.7
4	1.0	.77	.75	.65	.65	.70	8.3	15	12	7.5	3.0	1.5
5	1.0	.77	.77	.65	.65	.70	7.7	15	13	6.9	2.7	1.5
6	1.0	.77	.75	.65	.65	.80	7.4	16	13	6.5	3.4	1.5
7	1.0	.85	.73	.65	.65	.90	8.1	16	14	5.9	3.3	1.6
8	1.0	.81	.77	.65	.65	1.0	8.9	17	16	5.7	3.0	1.5
9	1.0	.80	.80	.65	.65	1.2	9.9	16	17	5.4	3.8	1.5
10	1.4	.82	.77	.77	.67	1.2	11	16	18	5.3	3.0	1.5
11	1.0	.81	.70	.72	.67	1.4	12	16	18	5.0	2.8	1.4
12	1.0	.86	.65	.71	.67	1.4	12	16	16	4.9	2.7	1.3
13	1.0	.83	.65	.73	.69	1.2	12	16	15	4.8	2.7	1.2
14	1.0	.77	.65	.68	.71	1.2	12	17	15	4.5	2.5	1.1
15	.98	.77	.65	.65	.77	1.2	13	19	18	4.5	2.5	1.0
16	.95	.81	.66	.65	.89	1.2	13	19	18	4.6	2.4	.95
17	.95	.79	.80	.66	.79	1.2	14	19	18	4.6	2.5	.92
18	.95	.81	.70	.66	.78	1.2	14	17	17	4.6	2.5	.90
19	.95	.79	.65	.65	.79	1.2	14	16	16	4.6	2.4	.90
20	.89	.79	.65	.65	.70	1.2	13	15	15	4.2	2.3	.90
21	.90	.79	.65	.65	.70	1.2	12	15	16	4.2	2.4	.90
22	.93	.72	.65	.65	.70	1.3	11	14	15	4.2	2.3	.90
23	.89	.71	.65	.65	.70	1.5	12	14	13	4.2	2.4	.90
24	.90	.76	.65	.60	.70	1.9	12	13	12	4.2	2.5	.91
25	.89	.81	.65	.65	.70	2.1	12	13	11	4.2	2.2	.92
26	.90	.80	.65	.65	.70	3.7	12	14	11	4.2	1.9	.95
27	1.2	.78	.65	.65	.70	6.2	11	17	10	4.0	2.4	.98
28	6.4	.77	.71	.65	.70	6.4	12	17	9.6	3.8	30	1.0
29	1.5	.79	.71	.65	-----	6.9	12	16	9.2	3.5	2.5	1.0
30	.85	.81	.71	.65	-----	7.7	12	15	8.8	3.3	2.0	1.1
31	.85	-----	.73	.65	-----	8.7	-----	14	-----	3.3	1.8	-----
TOTAL	36.28	23.87	21.80	20.54	19.59	68.60	332.2	484	421.6	157.2	109.0	35.63
MEAN	1.17	.80	.70	.66	.70	2.21	11.1	15.6	14.1	5.07	3.52	1.19
MAX	6.4	.86	.80	.77	.89	8.7	14	19	18	8.5	30	1.7
MIN	.85	.71	.65	.60	.65	.70	7.3	13	8.8	3.3	1.8	.90
AC-FT	72	47	43	41	39	136	659	960	836	312	216	71

CAL YR 1970 TOTAL 925.49 MEAN 2.54 MAX 14 MIN .55 AC-FT 1,840
WTR YR 1971 TOTAL 1,730.31 MEAN 4.74 MAX 30 MIN .60 AC-FT 3,430

PEAK DISCHARGE (BASE, 10 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-28	0800	1.55	23	8- 6	2100	1.45	12
5-15	0700	1.52	19	8-28	1430	7.50	1,660
6-16	1800	1.59	23				

JORDAN RIVER BASIN

223

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 northwest of Lehi and 7.5 miles downstream from Utah Lake.

DRAINAGE AREA.--3,000 sq mi, approximately, including 255 sq mi 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 (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 upstream at different datum.

AVERAGE DISCHARGE.--58 years (1913-70), 356 cfs (257,900 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 1,410 cfs 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, 23,930 acre-ft 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	103	248	316	429	389	522	494	611	681	783	595
2	446	103	231	224	433	320	519	496	605	669	785	614
3	446	103	231	211	436	538	460	486	605	667	797	596
4	447	107	235	361	456	495	502	506	610	693	800	564
5	444	107	233	407	448	460	464	466	602	676	800	550
6	407	103	235	358	448	538	517	470	576	671	801	554
7	307	103	235	365	456	542	528	547	580	677	792	542
8	302	107	231	281	456	520	486	557	583	676	814	540
9	313	107	231	295	463	538	513	529	570	676	789	535
10	314	105	206	342	463	533	460	513	558	700	782	534
11	289	107	247	392	460	538	439	493	519	702	765	534
12	215	105	250	392	475	564	443	467	460	703	767	542
13	219	99	262	365	475	471	450	507	425	701	772	542
14	221	150	314	386	475	524	502	546	375	701	774	559
15	183	159	267	386	471	529	468	580	447	701	775	583
16	102	156	272	389	475	546	394	565	516	698	780	577
17	100	159	284	389	500	487	472	558	561	713	778	574
18	101	163	287	396	452	504	447	538	653	730	778	572
19	103	169	292	407	495	542	424	554	670	746	775	579
20	104	174	292	392	338	542	458	577	668	777	775	570
21	101	180	310	407	456	542	446	582	671	759	780	536
22	101	150	298	403	516	542	450	558	681	756	776	535
23	106	176	301	414	508	524	463	572	700	755	759	525
24	106	182	304	414	520	533	450	583	701	742	765	529
25	107	193	310	414	425	538	464	591	703	708	774	531
26	116	199	310	422	460	551	508	630	702	698	772	526
27	87	202	316	422	538	463	502	651	692	730	773	520
28	106	218	326	422	533	487	493	656	691	736	760	529
29	105	227	326	422	---	546	502	659	685	746	676	531
30	103	269	329	425	---	555	492	656	695	790	612	456
31	103	---	329	425	---	382	---	620	---	763	601	---
TOTAL	6,637	4,485	8,542	11,644	13,060	15,783	14,238	17,207	18,115	22,141	23,730	16,474
MEAN	214	150	276	376	466	509	475	555	604	714	765	549
MAX	447	269	329	425	538	564	528	659	703	790	814	614
MIN	87	99	206	211	338	320	394	466	375	667	601	456
AC-FT	13,160	8,900	16,940	23,100	25,900	31,310	28,240	34,130	35,930	43,920	47,070	32,680
CAL YR 1970	TOTAL 173,728		MEAN 476	MAX 844	MIN 87	AC-FT 344,600						
WTR YR 1971	TOTAL 172,056		MEAN 471	MAX 814	MIN 87	AC-FT 341,300						

LOCATION.--Lat 40°43'37", long 111°55'33", in SE¼SW¼ 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 downstream from highway bridge over Jordan River on 21st South Street.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft above mean sea level, datum of 1929. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,190 cfs June 11 (gage height, 3.07 ft); minimum, 113 cfs Nov. 6.
Period of record: Maximum discharge, 1,700 cfs June 7, 1952; maximum gage height, 8.4 ft 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	212	153	299	356	475	544	564	555	638	260	149	326
2	193	151	286	337	508	374	588	522	542	275	163	286
3	177	143	279	230	524	533	547	529	504	253	160	312
4	180	132	257	262	489	553	507	465	502	268	165	297
5	307	127	241	291	498	518	526	429	504	280	165	286
6	318	127	234	295	499	528	490	371	510	249	173	293
7	313	198	233	295	490	556	503	354	496	217	229	322
8	284	198	228	301	500	546	520	412	487	202	214	315
9	285	156	267	318	494	550	523	437	562	187	251	287
10	364	148	294	356	503	567	518	420	684	195	232	267
11	363	140	258	459	503	549	473	420	898	187	231	248
12	343	168	263	478	500	547	504	411	918	223	224	228
13	288	154	254	460	513	567	454	433	829	201	233	232
14	285	142	263	439	514	548	475	532	708	193	213	199
15	275	188	317	432	527	591	532	623	628	183	197	204
16	249	185	339	435	525	554	460	660	711	181	208	214
17	228	173	340	469	538	554	378	688	710	177	214	213
18	221	181	359	517	602	515	444	639	719	165	218	257
19	191	184	339	545	562	540	432	602	636	282	216	239
20	156	191	341	532	544	553	481	503	638	312	226	231
21	152	189	354	496	466	549	479	467	734	306	209	220
22	188	184	362	491	538	556	508	422	643	275	192	205
23	186	180	341	487	551	548	493	385	497	249	208	211
24	207	175	341	481	550	573	557	353	483	226	192	215
25	181	162	331	475	535	578	630	310	440	234	212	208
26	174	257	340	471	502	587	649	355	405	213	232	201
27	177	257	341	473	534	575	653	432	410	179	229	197
28	160	263	349	472	568	573	619	476	393	174	358	214
29	162	262	350	470	-----	581	587	534	349	176	603	226
30	156	305	358	472	-----	603	572	602	320	151	591	307
31	154	-----	371	473	-----	566	-----	594	-----	151	453	-----
TOTAL	7,129	5,473	9,529	13,068	14,552	17,076	15,666	14,935	17,498	6,824	7,560	7,460
MEAN	230	182	307	422	520	551	522	482	583	220	244	249
MAX	364	305	371	545	602	603	653	688	918	312	603	326
MIN	152	127	228	230	466	374	378	310	320	151	149	197
AC-FT	14,140	10,860	18,900	25,920	28,860	33,870	31,070	29,620	34,710	13,540	15,000	14,800
CAL YR 1970	TOTAL	136,393	MEAN	374	MAX	1,120	MIN	127	AC-FT	270,500		
WTR YR												

JORDAN RIVER BASIN

225

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 downstream from diversion structure at head of Surplus Canal, 0.2 mile downstream from highway bridge on 21st South Street, Salt Lake City, and 2 miles downstream from Mill Creek.

DRAINAGE AREA.--3,420 sq mi (includes 255 sq mi 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 above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--28 years (1943-71), 140 cfs (101,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 214 cfs Sept. 30 (gage height, 3.88 ft); minimum daily, 44 cfs many days. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 1,030 cfs June 11, 12; minimum daily, 282 cfs Nov. 5, 6.

Period of record: Maximum discharge, 384 cfs June 3, 1944; maximum gage height, 5.75 ft 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 cfs June 7, 1952; minimum daily, 89 cfs June 23, 1961.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 800 ft 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 for Surplus Canal see station 10170500. For records of combined flow see following page.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	163	121	181	180	165	144	88	106	163	156	149
2	139	162	135	180	178	153	145	85	101	165	159	168
3	167	160	164	166	167	171	141	87	98	163	150	173
4	166	157	170	169	164	174	137	86	96	165	147	168
5	44	155	168	174	165	172	138	84	95	167	147	167
6	80	155	167	172	164	171	136	81	92	162	147	166
7	134	167	166	173	163	174	122	80	111	158	153	173
8	121	166	166	174	164	175	94	84	136	155	148	181
9	120	159	170	177	163	177	93	84	141	153	146	182
10	125	156	174	181	163	179	94	82	144	154	161	182
11	122	154	169	192	163	177	91	82	128	153	161	180
12	121	156	170	193	163	177	93	102	110	158	159	178
13	118	155	168	191	164	177	91	81	99	156	160	178
14	118	153	169	187	164	183	91	44	115	154	157	173
15	117	161	177	185	166	191	93	44	167	152	155	175
16	113	160	179	185	164	188	92	44	173	156	157	176
17	111	158	180	187	166	186	88	44	172	157	158	179
18	110	159	183	192	173	182	90	44	170	155	159	178
19	132	159	180	195	169	185	72	44	164	102	158	179
20	168	160	179	193	167	187	44	44	160	78	159	176
21	167	159	181	188	158	184	44	44	170	122	156	175
22	172	159	183	186	164	185	44	44	187	140	154	174
23	173	158	181	187	164	188	44	44	186	136	156	175
24	176	160	180	186	164	178	44	81	189	134	154	174
25	171	159	178	185	165	167	44	121	185	137	157	172
26	169	165	179	184	162	168	75	138	180	150	159	170
27	169	142	179	183	165	166	78	145	176	160	158	173
28	165	113	181	184	167	164	73	134	175	162	139	175
29	166	112	182	184	-----	165	91	104	170	163	109	177
30	164	110	183	182	-----	168	90	106	169	158	154	149
31	163	-----	184	180	-----	157	-----	105	-----	157	156	-----
TOTAL	4,331	4,612	5,346	5,676	4,639	5,434	2,716	2,480	4,365	4,645	4,749	5,195
MEAN	140	154	172	183	166	175	90.5	80.0	146	150	153	173
MAX	176	167	184	195	180	191	145	145	189	167	161	182
MIN	44	110	121	166	158	153	44	44	92	78	109	149
AC-FT	8,590	9,150	10,600	11,260	9,200	10,780	5,390	4,920	8,660	9,210	9,420	10,300

CAL YR 1970 TOTAL 53,835 MEAN 147 MAX 207 MIN 44 AC-FT 106,800
WTR YR 1971 TOTAL 54,188 MEAN 148 MAX 195 MIN 44 AC-FT 107,500

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 1970 to September 1971

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	316	420	537	655	709	708	643	744	423	305	475
2	332	313	421	517	686	527	733	607	643	440	322	454
3	344	303	443	396	691	704	688	616	602	416	310	485
4	346	289	427	431	653	727	644	551	598	433	312	465
5	351	282	409	465	663	690	664	513	599	447	312	453
6	398	282	401	467	663	699	626	452	602	411	320	459
7	447	365	399	468	653	730	625	434	607	375	382	495
8	405	364	394	475	664	721	614	496	623	357	362	496
9	405	315	437	495	657	727	616	521	703	340	397	469
10	489	304	468	537	666	746	612	502	828	349	393	449
11	485	294	427	651	666	726	564	502	1,030	340	392	428
12	464	324	433	671	663	724	597	513	1,030	381	383	406
13	406	309	422	651	677	744	545	514	928	357	393	410
14	403	295	432	626	678	731	566	576	823	347	370	372
15	392	349	494	617	693	782	625	667	795	335	352	379
16	362	345	518	620	689	742	552	704	884	337	365	390
17	339	331	520	656	704	740	466	732	882	334	372	392
18	331	340	542	709	775	697	534	683	889	320	377	435
19	323	343	519	740	731	725	504	646	800	384	374	418
20	324	351	520	725	711	740	525	547	798	390	385	407
21	319	348	535	684	624	733	523	511	904	428	365	395
22	360	343	545	677	702	741	552	466	830	415	346	379
23	359	338	522	674	715	736	537	429	683	385	364	386
24	383	335	521	667	714	751	601	434	672	360	346	389
25	352	321	509	660	700	745	674	431	625	371	369	380
26	343	422	519	655	664	755	724	493	585	363	391	371
27	346	399	520	656	699	741	731	577	586	339	387	370
28	325	376	530	656	735	737	692	610	568	336	497	389
29	328	374	532	654	-----	746	678	638	519	339	712	403
30	320	415	541	654	-----	771	662	708	489	309	745	456
31	317	-----	555	653	-----	723	-----	699	-----	308	609	-----
TOTAL	11,460	10,085	14,875	18,744	19,191	22,510	18,382	17,415	21,869	11,469	12,309	12,655
MEAN	370	336	480	605	685	726	613	562	729	370	397	422
MAX	489	422	555	740	775	782	733	732	1,030	447	745	496
MIN	317	282	394	396	624	527	466	429	489	308	305	370
AC-FT	22,730	20,000	29,500	37,180	38,070	44,650	36,460	34,540	43,380	22,750	24,410	25,100

CAL YR 1970 TOTAL 190,234.00 MEAN 521 MAX 1,220 MIN 282 AC-FT 377,300
WTR YR 1971 TOTAL 190,964.00 MEAN 523 MAX 1,030 MIN 282 AC-FT 378,800

JORDAN RIVER BASIN

227

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 upstream from dam forming Red Butte Reservoir, 1.5 miles northeast of Fort Douglas, and 5 miles east of Salt Lake City post office.

DRAINAGE AREA.--7.25 sq mi.

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 (from topographic map).

AVERAGE DISCHARGE.--8 years, 3.78 cfs (2,740 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 22 cfs Apr. 17 (gage height, 1.92 ft); minimum, 1.6 cfs Oct. 6.
Period of record: Maximum discharge, 31 cfs May 13, 1964 (gage height, 2.43 ft); minimum, 0.5 cfs 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 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.3	2.6	2.4	4.7	4.1	13	16	11	5.4	3.1	2.6
2	1.9	2.3	2.5	2.4	5.1	4.1	13	17	11	5.2	3.0	2.5
3	1.9	2.3	2.5	2.4	4.9	4.0	13	18	10	5.1	3.0	3.2
4	1.8	2.3	2.5	2.4	4.7	4.0	13	18	10	5.1	3.0	2.8
5	1.8	2.2	2.5	2.4	4.5	3.9	13	18	9.8	5.0	2.9	2.7
6	2.0	2.2	2.4	2.2	4.3	4.2	14	17	9.4	4.9	2.9	2.6
7	1.9	2.6	2.4	2.3	4.3	3.9	16	17	9.0	4.7	2.9	2.8
8	1.9	2.6	2.5	2.5	4.1	3.8	17	18	8.8	4.7	2.9	2.6
9	2.4	2.5	2.7	2.5	4.0	3.9	17	17	8.6	4.5	3.0	2.6
10	2.4	2.9	2.6	2.5	3.9	4.1	18	17	8.4	4.4	2.9	2.5
11	2.2	2.6	2.5	2.4	4.0	4.0	20	16	9.4	4.3	2.8	2.5
12	2.1	3.0	2.3	2.3	3.9	4.2	20	16	8.4	4.3	2.8	2.4
13	2.1	2.6	2.6	2.2	4.0	4.8	20	16	8.0	4.2	2.7	2.4
14	2.1	2.5	2.5	2.4	4.1	4.5	20	16	7.8	4.1	2.6	2.4
15	2.1	2.4	2.4	2.2	4.5	4.6	20	15	7.5	4.0	2.6	2.4
16	2.1	2.3	2.5	2.3	4.4	4.6	21	15	7.3	3.9	2.6	2.4
17	2.1	2.3	2.5	2.8	4.5	4.5	21	15	7.2	3.8	2.5	2.3
18	2.1	2.4	2.5	5.0	4.6	4.5	21	15	6.9	3.8	2.5	2.2
19	2.1	2.2	2.5	6.1	4.5	4.6	19	14	6.8	4.1	2.5	2.3
20	2.1	2.2	2.5	6.1	4.3	4.9	19	14	6.6	3.8	2.5	2.3
21	2.1	2.2	2.5	5.4	4.4	5.1	17	13	6.4	4.0	2.4	2.3
22	2.7	2.2	2.5	5.0	4.7	5.4	17	13	6.2	3.8	2.4	2.3
23	2.4	2.2	2.4	4.8	4.4	6.1	17	13	6.1	3.7	2.4	2.3
24	2.8	2.3	2.5	4.5	4.4	9.2	17	12	5.9	3.6	2.4	2.3
25	2.5	2.6	2.4	4.2	4.3	9.5	17	12	5.8	3.6	2.4	2.1
26	2.4	3.1	2.4	4.1	4.2	12	16	12	5.7	3.5	2.4	2.2
27	2.3	2.8	2.4	4.1	4.3	14	17	12	5.7	3.4	2.4	2.3
28	2.2	2.6	2.4	4.3	4.2	13	16	11	5.6	3.4	3.1	2.3
29	2.2	2.5	2.4	4.3	-----	13	16	11	5.6	3.3	3.6	2.2
30	2.3	2.7	2.4	4.3	-----	13	16	11	5.5	3.2	3.0	2.5
31	2.3	-----	2.4	4.5	-----	14	-----	11	-----	3.2	2.8	-----
TOTAL	67.2	73.9	76.7	107.3	122.2	199.5	514	456	230.4	128.0	85.0	73.3
MEAN	2.17	2.46	2.47	3.46	4.36	6.44	17.1	14.7	7.68	4.13	2.74	2.44
MAX	2.8	3.1	2.7	6.1	5.1	14	21	18	11	5.4	3.6	3.2
MIN	1.8	2.2	2.3	2.2	3.9	3.8	13	11	5.5	3.2	2.4	2.1
AC-FT	133	147	152	213	242	396	1,020	904	457	254	169	145

CAL YR 1970 TOTAL 1,399.8 MEAN 3.84 MAX 15 MIN 1.5 AC-FT 2,780
WTR YR 1971 TOTAL 2,133.5 MEAN 5.85 MAX 21 MIN 1.8 AC-FT 4,230

PEAK DISCHARGE (BASE, 10 CFS).--Apr. 17 (2100) 22 cfs (1.92 ft).

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 upstream from confluence with Dutch Creek forming Faust Creek and 8 miles southeast of Vernon.

DRAINAGE AREA.--31.2 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (from AMS Topographic map).

AVERAGE DISCHARGE.--13 years, 2.04 cfs (1,480 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 16 cfs July 19 (gage height, 1.30 ft); maximum gage height, 1.75 ft Jan. 6 (backwater from ice); minimum discharge, 1.0 cfs Mar. 9.

Period of record: Maximum discharge, 210 cfs Aug. 8, 1968 (result of slope-area measurement); minimum, 0.41 cfs Nov. 20, 1961.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.1	2.2	2.1	2.2	2.2	2.7	3.5	2.9	2.5	2.0	2.3
2	2.1	2.2	2.1	2.1	2.2	2.1	2.7	3.8	2.7	2.4	2.0	2.3
3	2.1	2.2	2.1	2.1	2.2	2.1	2.7	4.0	2.7	2.4	2.0	2.4
4	2.1	2.1	2.1	2.1	2.2	2.1	2.7	4.1	2.7	2.4	2.1	2.3
5	2.1	2.1	2.1	2.1	2.2	2.1	2.7	4.1	2.7	2.3	2.2	2.3
6	2.1	2.1	2.1	2.1	2.2	2.1	2.7	4.2	2.7	2.3	2.2	2.2
7	2.2	2.4	2.1	2.1	2.2	2.1	2.7	4.1	2.6	2.3	2.1	2.5
8	2.1	2.3	2.1	2.1	2.2	2.1	2.7	4.1	2.7	2.1	2.2	2.3
9	2.1	2.2	2.2	2.3	2.2	2.1	2.7	4.2	2.7	2.0	2.1	2.2
10	2.3	2.2	2.1	2.1	2.2	2.1	2.7	4.0	2.6	2.0	2.1	2.2
11	2.1	2.1	2.1	2.1	2.2	2.1	2.7	3.8	2.5	2.0	2.0	2.2
12	2.1	2.2	2.1	2.1	2.2	2.3	2.7	3.8	2.5	2.0	2.0	2.2
13	2.1	2.2	2.1	2.2	2.2	2.2	2.7	3.9	2.5	2.0	2.0	2.2
14	2.1	2.1	1.9	2.1	2.2	2.2	2.8	3.6	2.5	2.0	2.0	2.2
15	2.1	2.0	1.9	2.1	2.2	2.1	2.9	3.7	2.3	2.0	2.0	2.2
16	2.1	2.1	2.0	2.1	2.2	2.1	3.0	3.6	2.3	2.0	2.0	2.2
17	2.1	2.1	2.1	2.3	2.2	2.0	3.1	3.7	2.3	2.0	2.0	2.3
18	2.1	2.1	2.1	2.4	2.2	2.0	3.2	3.5	2.3	1.9	2.4	2.3
19	1.9	2.1	2.1	2.4	2.2	2.0	3.2	3.4	2.3	3.5	2.3	2.4
20	2.0	2.1	2.1	2.6	2.2	2.1	3.4	3.3	2.4	2.8	2.2	2.4
21	2.0	2.1	2.1	2.4	2.2	2.1	3.1	3.2	2.3	2.4	2.3	2.4
22	2.1	2.1	2.1	2.3	2.2	2.3	3.2	3.2	2.3	2.2	2.2	2.4
23	2.1	2.1	2.1	2.3	2.2	2.3	3.2	3.3	2.3	2.2	2.2	2.2
24	2.3	2.1	2.1	2.2	2.2	2.4	3.4	3.1	2.3	2.1	2.1	2.2
25	2.1	2.1	2.1	2.2	2.2	2.4	3.4	3.0	2.3	2.1	2.1	2.2
26	2.1	2.3	2.1	2.2	2.2	2.8	3.2	3.0	2.3	2.1	2.2	2.2
27	2.0	2.4	2.1	2.2	2.2	3.0	3.2	2.8	2.3	2.1	2.2	2.3
28	2.0	2.2	2.1	2.2	2.2	2.9	3.3	2.9	2.3	2.0	2.3	2.3
29	2.2	2.2	2.1	2.1	-----	2.8	3.4	2.9	2.3	2.0	2.3	2.3
30	2.2	2.5	2.1	2.1	-----	2.8	3.3	2.9	2.3	2.0	2.2	2.5
31	2.1	-----	2.1	2.1	-----	2.9	-----	3.0	-----	2.0	2.1	-----
TOTAL	65.2	65.1	64.8	67.9	61.6	70.9	89.4	109.7	73.9	68.1	66.1	68.6
MEAN	2.10	2.17	2.09	2.19	2.20	2.29	2.98	3.54	2.46	2.20	2.13	2.29
MAX	2.3	2.5	2.2	2.6	2.2	3.0	3.4	4.2	2.9	3.5	2.4	2.5
MIN	1.9	2.0	1.9	2.1	2.2	2.0	2.7	2.8	2.3	1.9	2.0	2.2
AC-FT	129	129	129	135	122	141	177	218	147	135	131	136

CAL YR 1970 TOTAL 822.6 MEAN 2.25 MAX 3.2 MIN 1.7 AC-FT 1,630
WTR YR 1971 TOTAL 871.3 MEAN 2.39 MAX 4.2 MIN 1.9 AC-FT 1,730

PEAK DISCHARGE (BASE, 10 CFS).--July 19 (1700) 16 cfs (1.30 ft).

TOOELE VALLEY

229

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 upstream from Forest Service Guard Station, 1.7 miles above Wasatch National Forest boundary, 9.2 miles southwest of Grantsville, and 14.8 miles west of Tooele.

DRAINAGE AREA.--4.19 sq mi. Area at crest-stage gage site, 3.26 sq mi.

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 (from topographic map). Prior to July 23, 1963, crest-stage gage only, at site 1.4 miles upstream at different datum.

AVERAGE DISCHARGE.--8 years, 6.42 cfs (4,650 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 36 cfs June 10; maximum gage height, 2.02 ft June 20; minimum, 2.9 cfs Jan. 14-16.
Period of record: Maximum discharge, 92 cfs June 8, 1964; (gage height, 2.27 ft); minimum daily, 1.7 cfs Jan. 6-12, 1967.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.5	3.8	3.1	4.3	3.3	6.3	8.9	18	16	9.2	4.7
2	3.5	3.5	3.8	3.1	4.3	3.3	6.3	10	17	15	9.0	4.6
3	3.5	3.5	3.8	3.1	4.3	3.3	6.2	11	16	15	8.7	4.8
4	3.5	3.5	3.6	3.1	4.2	3.3	6.4	12	15	13	8.0	4.6
5	3.4	3.5	3.5	3.1	4.0	3.3	6.8	15	16	13	7.8	4.6
6	3.5	3.5	3.5	3.1	4.0	3.3	6.6	15	15	14	7.8	4.6
7	3.4	3.6	3.5	3.2	4.0	3.2	7.0	14	16	14	5.9	4.7
8	3.4	3.5	3.5	3.2	4.0	3.2	7.5	16	19	14	5.7	4.6
9	3.4	3.5	3.7	3.1	3.9	3.1	8.1	16	23	13	5.7	4.6
10	3.4	3.6	3.5	3.1	3.8	3.1	8.7	14	29	12	5.6	4.6
11	3.5	3.5	3.5	3.1	3.8	3.1	9.0	14	20	10	5.5	4.6
12	3.4	3.5	3.5	3.1	3.6	3.2	10	14	21	9.4	5.6	4.6
13	3.5	3.4	3.5	3.1	3.5	3.3	9.9	15	19	9.1	5.5	4.5
14	3.5	3.3	3.5	3.1	3.5	3.1	9.5	17	17	9.0	5.6	4.3
15	3.5	3.3	3.5	3.1	3.8	3.2	9.7	17	13	9.3	5.7	4.3
16	3.4	3.5	3.5	3.1	3.8	3.1	12	20	16	9.3	5.7	4.3
17	3.5	3.5	3.6	3.5	3.8	3.2	13	19	26	9.3	5.7	4.3
18	3.4	3.5	3.4	4.1	3.9	3.1	12	20	27	9.2	5.3	4.3
19	3.3	3.5	3.4	4.5	4.0	3.1	11	19	25	9.0	5.2	4.3
20	3.3	3.5	3.3	4.6	3.9	3.1	12	18	29	9.0	5.1	4.3
21	3.3	3.5	3.5	5.1	3.8	3.2	12	17	27	9.1	5.0	4.3
22	3.4	3.5	3.4	5.4	3.8	3.5	11	16	27	8.8	5.0	4.3
23	3.3	3.5	3.3	5.6	3.7	3.7	11	15	27	8.5	5.0	4.3
24	3.4	3.5	3.3	5.3	3.6	3.9	10	15	26	8.2	5.0	4.3
25	3.3	3.6	3.3	5.0	3.5	4.0	9.6	15	24	7.9	5.0	4.3
26	3.3	3.6	3.3	4.9	3.5	4.2	9.1	16	24	7.3	5.0	4.3
27	3.5	3.5	3.3	4.9	3.4	4.6	8.3	16	23	7.5	5.0	4.3
28	3.5	3.8	3.1	4.3	3.4	4.7	8.0	18	20	6.7	5.1	4.1
29	3.5	3.9	3.2	4.3	-----	5.0	8.0	19	20	6.5	5.1	4.0
30	3.5	4.0	3.2	4.3	-----	5.4	8.3	18	18	6.6	4.9	4.1
31	3.5	-----	3.2	4.3	-----	5.9	-----	17	-----	7.3	4.8	-----
TOTAL	106.3	106.1	107.0	119.9	107.1	112.0	273.3	486.9	633	316.0	183.2	132.5
MEAN	3.43	3.54	3.45	3.87	3.83	3.61	9.11	15.7	21.1	10.2	5.91	4.42
MAX	3.5	4.0	3.8	5.6	4.3	5.9	13	20	29	16	9.2	4.8
MIN	3.3	3.3	3.1	3.1	3.4	3.1	6.2	8.9	13	6.5	4.8	4.0
AC-FT	211	210	212	238	212	222	542	966	1,260	627	363	263

CAL YR 1970 TOTAL 2,407.1 MEAN 6.59 MAX 33 MIN 2.7 AC-FT 4,770
WTR YR 1971 TOTAL 2,683.3 MEAN 7.35 MAX 29 MIN 3.1 AC-FT 5,320

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	1500	1.81	23	6-20	0600	2.02	35
6-10	2100	1.98	36	8-06	1500	1.89	24

GREAT SALT LAKE DESERT

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 upstream from Birch Creek and 14 miles southwest of Callao.

DRAINAGE AREA.--8.8 sq mi, 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 (from topographic map).

AVERAGE DISCHARGE.--13 years, 5.26 cfs (3,810 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 49 cfs June 17 (gage height, 2.54 ft); minimum, 1.4 cfs Jan. 2.

Period of record: Maximum discharge, 123 cfs June 15, 1967 (gage height, 2.66 ft); minimum, 0.24 cfs Feb. 25, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.2	2.1	1.9	2.0	2.1	3.8	7.7	18	14	4.8	2.8
2	1.9	2.2	2.1	1.8	2.0	2.1	3.6	11	17	13	4.8	2.6
3	1.9	2.2	2.4	1.8	2.0	2.1	3.4	12	16	12	4.8	2.9
4	2.0	2.2	2.2	2.0	2.0	2.0	3.3	13	15	12	4.7	2.9
5	2.0	2.2	2.1	2.1	2.0	1.9	3.5	12	15	11	4.8	2.8
6	2.1	2.2	2.1	2.1	2.0	1.8	3.7	9.6	15	10	4.5	2.8
7	2.1	2.4	2.1	2.1	2.0	1.8	4.1	7.6	17	9.8	4.5	2.6
8	2.0	2.2	2.1	2.1	2.0	1.8	4.1	9.5	23	9.6	4.3	2.6
9	2.1	2.3	2.1	2.1	2.0	1.8	4.1	11	26	9.4	4.3	2.5
10	2.2	2.2	2.1	2.1	2.1	1.9	4.4	9.8	31	8.7	4.1	2.5
11	2.2	2.2	2.1	1.9	2.1	1.9	4.8	9.7	33	8.7	3.9	2.5
12	2.1	2.3	2.1	1.9	2.1	2.0	5.3	10	33	8.7	3.9	2.5
13	2.1	2.2	2.1	1.9	2.1	2.0	5.8	14	30	8.9	3.9	2.5
14	2.1	2.2	2.1	1.9	2.1	2.1	6.8	16	33	8.7	3.9	2.5
15	2.1	2.4	2.1	1.9	2.1	2.0	7.1	19	42	8.6	3.7	2.5
16	2.1	2.2	2.1	2.0	2.1	2.0	7.2	23	43	8.4	3.7	2.5
17	2.1	2.2	2.1	2.0	2.1	2.0	8.2	23	43	7.8	3.7	2.5
18	2.1	2.2	2.0	2.0	2.1	2.0	8.1	20	36	7.3	3.7	2.5
19	2.1	2.2	2.0	2.0	2.1	2.1	7.0	17	35	7.4	3.5	2.5
20	2.1	2.2	2.0	2.0	2.1	2.1	6.2	16	28	6.5	3.5	2.5
21	2.1	2.1	2.1	2.0	2.1	2.1	5.5	16	27	5.9	3.5	2.4
22	2.1	2.1	2.0	2.0	2.1	2.2	4.8	16	26	5.6	3.3	2.3
23	2.2	2.1	2.0	2.0	2.1	2.2	4.6	15	25	5.4	3.1	2.2
24	2.3	2.3	2.0	2.0	2.1	2.4	5.2	14	24	5.1	3.0	2.2
25	2.2	2.3	2.0	2.0	2.1	2.4	5.2	14	22	5.0	3.0	2.2
26	2.2	2.3	2.0	2.0	2.1	2.7	5.4	15	20	5.0	3.0	2.1
27	2.3	2.1	2.0	2.0	2.1	3.0	4.9	20	19	5.0	3.0	2.1
28	2.3	2.1	2.0	2.0	2.1	3.0	4.9	21	17	5.0	3.1	2.1
29	2.3	2.1	2.0	2.0	-----	3.0	5.1	20	16	5.0	3.1	2.1
30	2.3	2.2	2.0	2.0	-----	3.5	6.1	19	15	4.8	3.0	2.2
31	2.4	-----	1.9	2.0	-----	4.0	-----	19	-----	4.8	2.8	-----
TOTAL	66.0	66.3	64.1	61.6	57.9	70.0	156.2	459.9	760	247.1	116.9	73.9
MEAN	2.13	2.21	2.07	1.99	2.07	2.26	5.21	14.8	25.3	7.97	3.77	2.46
MAX	2.4	2.4	2.4	2.1	2.1	4.0	8.2	23	43	14	4.8	2.9
MIN	1.9	2.1	1.9	1.8	2.0	1.8	3.3	7.6	15	4.8	2.8	2.1
AC-FT	131	132	127	122	115	139	310	912	1,510	490	232	147

CAL YR 1970 TOTAL 1,511.2 MEAN 4.14 MAX 23 MIN 1.9 AC-FT 3,000
WTR YR 1971 TOTAL 2,199.9 MEAN 6.03 MAX 43 MIN 1.8 AC-FT 4,360

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	1600	2.28	24	6-16	0700	2.54	49
5-28	0100	2.20	21				

SEVIER LAKE BASIN

231

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 upstream from West Hatch ditch diversion, 2 miles upstream from Spring Hollow, 4.5 miles upstream from mouth, and 5 miles southwest of Hatch.

DRAINAGE AREA.--105 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 51.4 cfs (37,240 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 184 cfs June 10 (gage height, 2.83 ft); minimum recorded, 0.20 cfs Feb. 4, result of ice jam.

Period of record: Maximum discharge, 631 cfs May 28, 1969 (gage height 4.85 ft); minimum discharge recorded, 0.20 cfs Feb. 4, result of ice jam.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. One small diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	12	8.0	11	8.0	8.9	21	106	60	20	28
2	16	13	11	8.0	9.0	8.0	8.6	29	99	56	20	25
3	16	13	10	6.5	8.0	8.0	8.3	43	103	52	24	24
4	15	13	10	4.7	6.0	8.0	8.4	54	102	48	21	24
5	15	13	10	3.5	5.6	8.0	8.6	56	112	45	22	24
6	15	13	10	3.8	5.6	8.0	9.0	58	116	43	28	23
7	15	14	10	4.4	5.4	8.0	10	53	141	41	30	23
8	16	13	11	5.2	5.3	8.0	11	42	144	40	27	23
9	16	13	12	8.0	5.6	9.0	11	33	139	38	30	22
10	15	13	11	8.0	6.0	9.8	12	37	158	38	28	21
11	16	13	10	8.0	7.8	11	14	37	156	36	26	20
12	15	13	9.4	8.0	8.0	9.7	16	40	147	35	24	20
13	15	13	9.0	8.0	8.4	9.5	21	42	148	33	23	20
14	15	12	9.0	8.0	9.1	9.3	27	46	150	32	22	19
15	15	9.0	9.0	8.0	8.5	8.9	29	58	146	32	22	19
16	14	9.5	9.0	8.0	8.1	9.5	26	80	140	32	25	19
17	14	10	9.6	8.0	8.0	9.3	36	96	134	33	29	19
18	14	11	8.8	8.0	7.7	8.2	41	97	125	39	25	19
19	14	10	8.2	8.0	7.7	8.4	41	95	118	34	23	19
20	14	12	9.0	8.0	7.7	9.6	30	97	109	32	23	18
21	14	12	9.4	8.0	7.8	12	24	103	103	32	23	19
22	14	12	9.5	8.0	7.8	13	22	105	95	31	29	19
23	14	12	8.8	8.0	8.0	11	20	96	87	30	28	18
24	14	12	7.6	8.0	9.4	10	19	93	81	29	24	18
25	14	12	7.6	8.0	9.8	9.5	18	105	77	28	23	17
26	14	14	7.6	8.0	6.8	9.9	18	125	73	26	24	18
27	14	12	7.6	8.7	6.5	9.9	17	139	69	22	31	18
28	13	12	8.0	9.2	8.0	9.6	16	131	67	21	37	18
29	13	13	8.0	9.7	-----	9.3	15	139	66	21	34	18
30	13	15	8.0	10	-----	9.1	16	122	64	21	34	18
31	14	-----	8.0	11	-----	9.6	-----	113	-----	21	30	-----
TOTAL	452	369.5	288.1	236.7	212.6	289.1	561.8	2,385	3,375	1,081	809	610
MEAN	14.6	12.3	9.29	7.64	7.59	9.33	18.7	76.9	113	34.9	26.1	20.3
MAX	16	15	12	11	11	13	41	139	158	60	37	28
MIN	13	9.0	7.6	3.5	5.3	8.0	8.3	21	64	21	20	17
AC-FT	897	733	571	469	422	573	1,110	4,730	6,690	2,140	1,600	1,210

CAL YR 1970 TOTAL 10,598.6 MEAN 29.0 MAX 273 MIN 7.6 AC-FT 21,020
WTR YR 1971 TOTAL 10,669.8 MEAN 29.2 MAX 158 MIN 3.5 AC-FT 21,160

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

NOTE: No gage-height record: Nov. 28-Jan. 25.

SEVIER LAKE BASIN

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 downstream from highway bridge, 0.2 mile east of Hatch, and 2.8 miles downstream from Mammoth Creek.

DRAINAGE AREA.--340 sq mi, 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 (from river-profile map). See WSP 1734 for history of changes prior to Oct. 4, 1949.

AVERAGE DISCHARGE.--49 years, 127 cfs (92,010 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 236 cfs Mar. 12 (gage height, 2.40 ft); minimum, 37 cfs May 1.

Period of record: Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 cfs May 26, 1922 (gage height, 5.25 ft, datum then in use); minimum daily, 10 cfs for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 27 cfs Sept. 13, 1960.

REMARKS.--Records good. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	49	66	50	61	47	48	38	143	102	58	97
2	48	49	62	47	61	47	48	46	138	94	57	74
3	49	49	60	46	59	47	48	57	141	95	60	68
4	53	50	59	40	54	48	49	72	141	91	59	68
5	51	50	57	35	54	46	49	82	148	87	80	55
6	50	51	56	45	50	46	50	88	151	85	75	58
7	52	59	57	45	51	47	51	83	173	87	72	61
8	53	54	58	45	49	45	54	76	174	85	70	63
9	52	53	60	45	48	47	52	64	170	83	81	68
10	52	62	58	45	49	66	52	65	186	83	80	68
11	51	58	55	44	56	70	54	70	195	80	64	64
12	51	60	53	44	55	102	62	71	193	81	64	64
13	51	63	50	44	56	79	68	72	189	78	61	62
14	53	61	51	44	57	53	74	76	190	79	61	63
15	53	60	51	44	57	52	80	88	186	69	59	62
16	52	63	51	44	54	57	75	109	179	70	64	59
17	52	60	55	44	59	62	84	130	174	72	79	50
18	52	60	51	46	52	54	93	141	168	75	68	47
19	51	59	48	46	49	51	94	143	162	75	60	50
20	50	60	51	54	49	55	85	144	159	70	64	51
21	51	61	54	56	48	62	76	149	151	70	66	52
22	52	61	56	52	46	67	72	156	135	72	72	52
23	53	60	52	51	46	66	67	149	131	69	72	51
24	53	59	47	52	46	62	62	141	124	67	76	52
25	53	59	47	49	49	63	60	150	121	67	77	52
26	53	70	47	52	46	64	54	164	124	66	82	55
27	52	66	50	54	43	62	45	182	118	63	86	58
28	52	63	50	55	45	57	43	173	112	61	102	58
29	53	74	50	54	-----	55	42	183	111	61	94	60
30	53	82	50	57	-----	51	42	169	108	61	98	60
31	50	-----	50	61	-----	50	-----	152	-----	61	99	-----
TOTAL	1,599	1,785	1,662	1,490	1,449	1,780	1,833	3,483	4,595	2,359	2,260	1,802
MEAN	51.6	59.5	53.6	48.1	51.8	57.4	61.1	112	153	76.1	72.9	60.1
MAX	53	82	66	61	61	102	94	183	195	102	102	97
MIN	48	49	47	35	43	45	42	38	108	61	57	47
AC-FT	3,170	3,540	3,300	2,960	2,870	3,530	3,640	6,910	9,110	4,680	4,480	3,570

CAL YR 1970 TOTAL 27,366 MEAN 75.0 MAX 274 MIN 46 AC-FT 54,280
WTR YR 1971 TOTAL 26,097 MEAN 71.5 MAX 195 MIN 35 AC-FT 51,760

PEAK DISCHARGE (BASE, 500 CFS).--No peaks above base.

SEVIER LAKE BASIN

233

10176300 Panguitch Creek near Panguitch, Utah

LOCATION.--Lat 37°46'20", long 112°32'00", in SE¼NW¼ sec.16, T.35 S., R.6 W., Garfield County, on right bank 6 miles downstream from Panguitch Lake and 6 miles southwest of Panguitch.

DRAINAGE AREA.--93 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 22.1 cfs (16,010 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 192 cfs Mar. 12 (gage height, 2.62 ft); minimum, 2.3 cfs Mar. 19.

Period of record: Maximum discharge, about 670 cfs Aug. 25, 1961 (gage height, 4.55 ft), from rating curve extended above 65 cfs on basis of velocity-area study; no flow for part of Nov. 2, 1961.

REMARKS.--Records excellent. Flow regulated by Panguitch Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.7	5.1	5.0	7.2	4.8	15	6.4	48	75	64	7.9
2	4.6	5.7	6.2	4.8	6.8	4.4	14	6.8	45	73	64	6.9
3	4.4	5.7	5.0	4.6	5.5	4.6	14	7.2	48	69	64	5.0
4	4.2	5.6	5.7	4.1	5.5	4.9	13	6.5	50	69	66	4.5
5	4.2	5.8	5.7	4.1	6.1	4.7	14	9.6	50	69	65	4.5
6	4.6	5.7	5.2	4.8	5.8	3.9	17	13	50	68	64	6.1
7	5.5	6.2	5.5	4.5	5.2	4.3	19	15	49	68	48	12
8	6.1	6.1	5.9	4.1	5.6	4.8	18	14	57	65	39	27
9	5.9	6.1	5.7	4.1	5.5	4.6	20	12	60	60	34	33
10	5.6	6.4	5.2	4.4	6.0	5.2	21	12	61	55	36	33
11	5.5	6.2	4.1	4.5	6.0	6.7	22	15	62	50	29	37
12	4.9	6.1	5.5	4.4	5.9	23	22	13	69	49	18	45
13	4.2	5.8	5.0	4.3	6.1	6.7	22	14	58	54	20	49
14	4.2	5.5	5.2	4.3	6.1	5.5	21	13	54	51	23	28
15	4.2	4.6	5.2	4.5	5.8	5.6	19	12	55	60	36	19
16	5.0	5.8	5.0	4.5	5.7	7.5	19	12	68	60	39	12
17	6.2	5.5	5.5	4.6	5.7	6.0	17	11	67	59	46	4.2
18	5.9	5.5	5.0	4.9	5.4	5.0	16	11	68	46	40	3.5
19	5.9	4.6	4.6	5.4	4.9	5.0	13	11	67	48	38	3.2
20	5.9	5.1	4.8	8.1	4.0	6.6	12	10	68	50	38	3.2
21	5.9	5.4	4.8	7.0	5.0	8.0	12	19	74	52	35	3.1
22	5.9	5.3	4.8	5.7	5.6	8.2	11	39	74	55	36	3.3
23	5.9	5.3	5.2	5.3	5.3	8.8	9.2	41	75	50	27	3.2
24	5.9	5.3	4.6	5.3	5.2	9.5	8.8	40	75	49	11	3.2
25	5.8	5.5	4.5	5.5	4.9	11	8.6	38	76	48	8.3	3.2
26	5.9	5.8	4.6	5.7	4.5	19	8.2	45	76	48	8.6	3.7
27	6.1	5.5	4.6	6.1	4.3	23	8.1	50	77	48	9.3	3.0
28	6.0	5.4	5.2	6.0	4.6	19	7.7	48	76	52	11	2.7
29	6.1	5.6	5.0	5.8	-----	15	7.0	48	76	54	8.4	1.7
30	6.0	6.2	4.3	6.5	-----	17	6.6	51	76	59	11	2.7
31	5.9	-----	5.0	7.3	-----	18	-----	49	-----	63	9.7	-----
TOTAL	166.6	169.0	157.7	160.2	154.2	280.3	435.2	692.5	1,909	1,776	1,046.3	373.8
MEAN	5.37	5.63	5.09	5.17	5.51	9.04	14.5	22.3	63.6	57.3	33.8	12.5
MAX	6.2	6.4	6.2	8.1	7.2	23	22	51	77	75	66	49
MIN	4.2	4.6	4.1	4.1	4.0	3.9	6.6	6.4	45	46	8.3	1.7
AC-FT	330	335	313	318	306	556	863	1,370	3,790	3,520	2,080	741

CAL YR 1970 TOTAL 9,360.7 MEAN 25.6 MAX 100 MIN 3.6 AC-FT 18,570
WTR YR 1971 TOTAL 7,320.8 MEAN 20.1 MAX 77 MIN 1.7 AC-FT 14,520

SEVIER LAKE BASIN

10180000 Sevier River near Circleville, Utah

LOCATION.--Lat 38°06'15", long 112°20'08", in NE¼SW¼NW¼ sec.20, T.31 S., R.4 W., Garfield County, on left bank 2 miles upstream from Pine Creek and 6 miles southwest of Circleville.

DRAINAGE AREA.--950 sq mi, 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 (from river-profile map). May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft 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 upstream at datum 0.23 ft higher.

AVERAGE DISCHARGE.--31 years (1914-22, 1923-24, 1949-71), 144 cfs (104,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 402 cfs Aug. 27 (gage height, 2.98 ft); minimum, 30 cfs July 14.

Period of record: Maximum discharge, 1,960 cfs about May 21, 1922 (gage height, 9.8 ft, from high-water mark, present datum), from rating curve extended above 1,000 cfs; minimum daily, 18 cfs June 30, July 1, 5, 1960, June 23, 1961. Flood of March 1938 probably exceeded that of May 1922.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	108	146	112	104	96	85	42	99	49	44	136
2	70	106	130	111	94	94	87	40	100	44	44	128
3	63	109	126	77	88	89	85	44	99	41	42	120
4	59	109	122	74	83	99	80	41	93	48	45	113
5	61	109	123	60	80	102	79	52	95	46	77	108
6	61	108	122	63	109	95	79	65	87	48	165	103
7	73	124	120	68	90	94	78	65	87	46	170	99
8	71	129	120	80	86	95	75	62	98	44	149	96
9	76	118	122	101	87	92	69	61	105	43	107	92
10	78	119	123	130	88	98	67	54	102	36	197	87
11	88	119	117	140	92	108	65	55	119	35	137	83
12	84	118	113	140	97	113	68	56	159	36	82	79
13	81	118	115	140	93	151	55	53	155	33	55	76
14	83	114	116	132	93	147	52	52	143	32	51	74
15	84	113	120	117	95	111	59	49	140	34	49	71
16	82	130	116	120	95	110	61	49	127	37	47	68
17	91	125	122	125	95	108	55	58	130	45	45	65
18	88	124	119	130	96	110	55	77	117	39	50	56
19	88	123	112	136	94	112	61	89	113	41	70	58
20	90	117	109	144	91	113	60	90	104	44	72	56
21	91	120	112	150	89	120	58	79	101	50	69	54
22	89	122	118	126	89	118	56	78	78	44	111	50
23	88	123	108	113	94	118	52	117	70	44	108	52
24	90	125	103	110	95	115	52	114	71	47	103	55
25	88	126	104	105	94	110	48	91	67	54	99	52
26	89	145	99	106	94	127	48	86	55	58	95	53
27	88	150	95	104	87	149	52	93	56	49	186	56
28	100	142	98	106	91	131	44	108	56	40	159	53
29	112	144	107	105	-----	105	43	110	57	42	149	51
30	115	170	107	102	-----	95	41	122	52	38	143	52
31	116	-----	110	112	-----	88	-----	113	-----	44	141	-----
TOTAL	2,605	3,707	3,574	3,439	2,583	3,413	1,869	2,265	2,935	1,331	3,061	2,296
MEAN	84.0	124	115	111	92.3	110	62.3	73.1	97.8	42.9	98.7	76.5
MAX	116	170	146	150	109	151	87	122	159	58	197	136
MIN	59	106	95	60	80	88	41	40	52	32	42	50
AC-FT	5,170	7,350	7,090	6,820	5,120	6,770	3,710	4,490	5,820	2,640	6,070	4,550

CAL YR 1970 TOTAL 35,107 MEAN 96.2 MAX 170 MIN 35 AC-FT 69,630
WTR YR 1971 TOTAL 33,078 MEAN 90.6 MAX 197 MIN 32 AC-FT 65,610

235

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 upstream from bridge on State Highway 22, 1 mile west of Kingston, and 2 miles upstream from East Fork.

PERIOD OF RECORD.--June 1914 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (from river-profile map). Prior to Sept. 20, 1918, at site 1 mile downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 397 cfs Aug. 27 (gage height, 2.02 ft); minimum, 2.8 cfs July 24-27.

Period of record: Maximum discharge, about 3,000 cfs (including estimated flow of 360 cfs in overflow channel bypassing station).

Mar. 4, 1938 (gage height, 5.20 ft), from rating curve extended above 600 cfs; minimum, 0.9 cfs July 26, 1963.

REMARKS.--Records good. Many diversions for irrigation above station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	111	178	115	142	110	98	19	20	7.3	4.8	106
2	23	119	158	119	144	120	66	16	12	7.0	5.2	86
3	30	122	150	102	142	128	60	11	10	7.4	5.6	71
4	27	128	146	96	128	135	56	9.9	9.2	7.4	5.6	61
5	29	127	145	85	123	145	52	11	8.7	7.0	6.5	56
6	33	124	146	88	139	132	47	12	8.9	7.0	20	54
7	32	138	144	92	129	132	43	16	10	7.0	43	50
8	41	150	144	100	124	135	44	15	9.8	6.5	41	67
9	43	140	148	126	128	133	48	12	10	6.5	22	62
10	48	137	148	113	130	141	44	12	11	6.5	102	44
11	60	138	140	115	132	153	38	17	11	6.5	48	28
12	62	136	123	114	135	163	32	18	28	6.5	35	17
13	63	135	119	112	136	228	28	14	38	6.5	26	10
14	62	132	123	108	137	189	27	12	27	4.7	18	5.8
15	61	131	126	116	139	154	26	12	29	3.9	13	4.0
16	64	144	126	123	138	142	25	8.4	19	3.3	11	3.5
17	69	146	129	128	136	148	24	6.5	18	3.2	11	3.3
18	81	144	130	143	136	150	22	7.0	16	3.2	10	3.5
19	87	143	120	147	135	145	19	7.0	12	3.0	10	6.0
20	94	138	118	144	136	144	16	5.6	12	3.0	9.7	11
21	91	138	120	164	130	145	14	6.1	9.7	3.2	8.3	22
22	81	140	124	162	125	151	18	6.9	11	3.1	35	21
23	86	142	122	147	129	157	21	7.9	9.9	3.0	32	21
24	96	144	107	141	129	153	20	10	9.5	3.0	25	20
25	94	146	90	137	128	142	19	9.8	9.2	2.8	41	20
26	97	189	94	136	126	143	19	9.4	9.2	2.8	44	20
27	99	195	123	138	100	153	20	8.8	9.6	3.0	183	20
28	104	179	126	141	105	181	20	8.3	8.9	3.9	127	19
29	117	170	114	140	-----	138	20	14	7.2	4.3	121	20
30	118	198	113	138	-----	121	19	20	7.2	4.3	113	23
31	112	-----	113	139	-----	108	-----	24	-----	4.8	160	-----
TOTAL	2,120	4,324	4,007	3,869	3,661	4,519	1,005	366.6	411.0	151.6	1,336.7	955.1
MEAN	68.4	144	129	125	131	146	33.5	11.8	13.7	4.89	43.1	31.8
MAX	118	198	178	164	144	228	98	24	38	7.4	183	106
MIN	16	111	90	85	100	108	14	5.6	7.2	2.8	4.8	3.3
AC-FT	4,210	8,580	7,950	7,670	7,260	8,960	1,990	727	815	301	2,650	1,890
CAL YR 1970	TOTAL	30,664.9	MEAN	84.0	MAX	198	MIN	2.7	AC-FT	60,820		
WTR YR 1971	TOTAL	26,726.0	MEAN	73.2	MAX	228	MIN	2.8	AC-FT	53,010		

SEVIER LAKE BASIN

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 upstream from highway bridge, 0.6 mile downstream from Skunk Creek, 3.6 miles upstream from Tropic Reservoir dam, 9 miles southwest of Rubys Inn, and 10.5 miles southeast of Hatch.

DRAINAGE AREA.--71 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft (from river-profile map). Prior to Oct. 10, 1966 on right bank at different datum.

AVERAGE DISCHARGE.--10 years, 14.8 cfs (10,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 68 cfs Mar. 26 (gage height, 2.26 ft); minimum, 1.6 cfs Dec. 20, Jan. 4 and 5.
Period of record: Maximum discharge, 274 cfs Dec. 7, 1966 (gage height, 3.79 ft); no flow for several days in February and March 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	9.5	5.8	5.2	11	6.0	25	13	9.9	4.0	4.1	7.3
2	6.3	8.4	8.7	5.2	11	6.0	27	12	9.1	3.7	3.8	6.5
3	6.3	9.0	8.8	5.2	11	6.0	28	12	8.4	3.6	3.9	6.2
4	6.9	9.2	7.7	4.4	11	6.0	27	12	8.2	3.5	4.0	6.1
5	9.4	9.5	6.7	3.5	8.0	5.7	27	17	8.0	3.5	5.7	6.2
6	13	9.5	6.6	3.0	8.0	5.4	27	21	7.8	3.4	7.0	6.0
7	10	11	6.8	5.0	8.0	5.4	27	19	7.2	3.6	7.4	6.2
8	10	12	7.4	5.0	8.0	5.4	26	19	7.1	3.6	8.8	6.4
9	9.4	12	8.8	5.0	8.0	6.5	25	18	7.0	3.2	9.5	5.9
10	8.8	13	8.0	5.0	8.0	7.7	25	16	6.8	3.0	6.2	5.8
11	8.1	12	7.6	5.0	9.0	8.5	23	16	7.0	2.9	5.3	5.7
12	8.1	12	7.2	5.0	9.0	13	23	15	8.7	2.9	5.2	5.7
13	8.1	12	6.6	5.0	9.0	12	21	16	8.0	2.9	4.8	5.9
14	8.1	11	6.6	5.0	9.0	9.4	21	13	6.7	3.2	4.6	5.7
15	8.1	9.0	6.4	5.2	9.0	4.6	19	13	6.3	4.1	4.5	5.4
16	7.9	9.0	6.4	5.3	9.0	8.5	19	12	6.0	4.4	4.7	5.3
17	8.3	9.0	6.1	5.8	8.5	14	18	11	5.6	4.1	4.9	5.3
18	8.1	9.0	5.8	6.6	8.0	10	18	11	5.4	3.9	5.0	5.4
19	8.6	9.0	5.6	8.0	8.0	8.6	18	11	5.4	3.7	6.3	5.6
20	8.3	9.0	5.7	10	8.0	15	20	10	5.2	6.9	10	5.7
21	8.6	10	5.8	10	8.0	17	21	9.4	4.9	7.3	10	5.8
22	9.4	10	5.7	9.7	8.0	17	19	10	4.7	7.5	7.7	5.7
23	9.7	10	5.4	9.0	8.0	17	18	13	4.5	5.9	15	5.6
24	9.5	10	5.0	9.0	8.0	20	16	11	4.3	4.9	10	5.4
25	9.1	10	4.8	9.0	8.0	24	15	9.5	4.1	4.6	12	5.3
26	8.7	11	5.0	9.0	6.6	38	14	8.9	4.0	4.5	13	5.2
27	8.4	13	5.2	9.0	5.0	43	15	8.3	3.8	4.6	7.5	5.2
28	8.0	16	5.2	9.0	6.0	41	14	8.5	3.9	5.0	7.8	5.3
29	9.0	12	5.2	9.0	-----	39	14	11	4.0	4.3	7.6	5.4
30	9.8	5.9	5.2	9.5	-----	40	13	12	4.0	4.8	11	6.6
31	9.6	-----	5.2	11	-----	36	-----	11	-----	5.0	11	-----
TOTAL	267.9	312.0	197.0	210.6	236.1	495.7	623	399.6	186.0	132.5	228.3	173.8
MEAN	8.64	10.4	6.35	6.79	8.43	16.0	20.8	12.9	6.20	4.27	7.36	5.79
MAX	13	16	8.8	11	11	43	28	21	9.9	7.5	15	7.3
MIN	6.3	5.9	4.8	3.0	5.0	4.6	13	8.3	3.8	2.9	3.8	5.2
AC-FT	531	619	391	418	468	983	1,240	793	369	263	453	345

CAL YR 1970 TOTAL 4,050.9 MEAN 11.1 MAX 28 MIN 4.4 AC-FT 8,030
WTR YR 1971 TOTAL 3,462.5 MEAN 9.49 MAX 43 MIN 2.9 AC-FT 6,870

PEAK DISCHARGE (BASE, 50 CFS).--Mar. 26 (1915) 68 cfs (2.26 ft); Aug. 23 (1945) 57 cfs (2.22 ft).

SEVIER LAKE BASIN

237

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 upstream from mouth and 5 miles southeast of Antimony.

DRAINAGE AREA.--97 sq mi, 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 (from topographic map). October 1946 to September 1948 at datum 0.89 ft lower.

AVERAGE DISCHARGE.--16 years, 21.3 cfs (15,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 253 cfs Aug. 28 (gage height, 3.20 ft); minimum daily, 14 cfs Oct. 1-4,6.
Period of record: Maximum discharge, 669 cfs Aug. 3, 1959 (gage height, 4.52 ft), from rating curve extended above 250 cfs on basis of slope-area measurements of peak flow; minimum, 8.9 cfs Mar. 20, 1964.

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

REVISIONS.--WSP 1927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	19	19	17	17	29	20	23	17	18	24
2	14	17	19	19	17	17	32	25	22	17	18	21
3	14	17	19	19	17	17	30	29	21	17	18	20
4	14	17	19	19	17	17	27	27	21	17	19	19
5	15	17	19	19	17	17	33	23	21	17	20	19
6	14	17	19	19	17	17	41	22	20	17	20	19
7	15	17	19	18	17	17	36	22	20	17	20	19
8	15	17	19	18	17	17	39	21	20	17	20	18
9	15	18	19	18	18	17	40	21	20	17	20	18
10	15	18	19	18	17	17	40	21	20	17	20	18
11	15	18	20	18	16	18	43	21	20	17	20	18
12	15	18	20	18	16	18	45	22	20	17	20	18
13	15	18	20	18	16	18	39	22	20	17	20	18
14	15	18	20	18	16	18	24	24	19	17	20	17
15	15	18	20	18	16	18	22	30	19	17	20	17
16	15	18	20	18	16	18	25	31	19	17	20	17
17	15	18	20	18	17	17	22	29	19	18	20	17
18	15	18	20	18	16	17	20	26	18	18	20	17
19	16	18	20	18	16	17	19	26	18	18	20	16
20	15	18	20	18	16	18	19	25	18	18	20	16
21	15	18	19	18	16	18	19	26	18	18	20	16
22	16	18	19	17	16	18	19	26	18	18	20	16
23	16	18	19	17	16	18	19	26	17	18	20	16
24	16	18	19	17	16	18	19	25	17	18	20	16
25	16	18	19	17	16	19	19	25	17	18	20	16
26	16	19	19	17	16	19	19	27	17	18	20	16
27	16	19	19	17	16	19	19	27	18	18	20	16
28	16	19	19	17	17	26	19	25	17	18	64	16
29	16	19	19	18	-----	33	19	24	17	18	30	16
30	16	19	19	18	-----	36	19	24	17	18	56	16
31	16	-----	19	18	-----	29	-----	23	-----	18	37	-----
TOTAL	471	536	599	557	461	600	815	765	571	542	720	526
MEAN	15.2	17.9	19.3	18.0	16.5	19.4	27.2	24.7	19.0	17.5	23.2	17.5
MAX	16	19	20	19	18	36	45	31	23	18	64	24
MIN	14	16	19	17	16	17	19	20	17	17	18	16
AC-FT	934	1,060	1,190	1,100	914	1,190	1,620	1,520	1,130	1,080	1,430	1,040
CAL YR 1970	TOTAL 7,920 MEAN 21.7 MAX 225 MIN 13 AC-FT 15,710											
WTR YR 1971	TOTAL 7,163 MEAN 19.6 MAX 64 MIN 14 AC-FT 14,210											

PEAK DISCHARGE (BASE, 170 CFS).--Aug. 28 (1700) 253 cfs (3.20 ft).

NOTE.--No gage-height record Aug. 29 to Sept. 30.

SEVIER LAKE BASIN

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 upstream from mouth and 8 miles northeast of Koosharem.

DRAINAGE AREA.--24 sq mi, approximately.

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

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 7,100 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 12.2 cfs (8,840 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 50 cfs July 20 (gage height, 2.06 ft); minimum, 5.2 cfs Jan. 6, result of freezeup.
Period of record: Maximum discharge, 79 cfs May 19, 1970 (gage height, 2.34 ft); minimum, 3.7 cfs sometime during period Nov. 7 to Feb. 26, 1969, period of no gage-height record.

REMARKS.--Records good except period of no gage-height record, which is fair. No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	9.7	8.6	8.6	7.8	9.5	18	27	16	13	11
2	11	9.7	9.0	8.6	8.6	7.4	10	21	27	16	13	11
3	11	9.7	9.7	8.6	8.0	8.5	11	24	27	16	13	13
4	11	11	9.3	8.0	7.7	10	12	24	27	16	13	12
5	11	11	9.3	7.6	8.0	9.5	12	22	27	15	13	11
6	11	10	9.3	6.9	8.0	8.4	12	22	27	15	13	11
7	11	11	9.3	7.9	8.0	9.0	13	23	29	15	13	12
8	11	11	9.3	8.3	8.0	10	13	22	28	15	13	11
9	11	9.7	9.7	8.3	7.8	10	15	20	27	15	13	11
10	11	11	9.7	8.3	7.8	10	17	20	27	14	13	11
11	11	9.7	9.3	8.3	8.4	10	19	22	30	14	12	11
12	11	11	9.2	7.9	9.0	10	20	23	26	14	12	11
13	11	9.7	9.0	7.9	9.6	10	22	23	24	15	12	11
14	11	10	9.0	7.9	9.6	10	21	26	24	15	12	11
15	11	9.0	9.3	7.9	9.6	10	22	30	25	15	12	11
16	11	10	9.3	7.9	9.4	10	25	33	24	15	12	11
17	11	10	9.0	8.3	9.0	10	23	32	23	15	12	11
18	10	9.7	9.0	8.6	9.0	9.7	20	27	22	15	12	11
19	11	9.7	9.0	9.0	9.0	9.7	17	24	20	15	12	11
20	11	9.7	9.0	8.6	9.0	10	17	26	19	18	12	11
21	11	9.7	9.0	8.6	8.6	11	16	28	18	19	12	11
22	11	9.7	9.0	7.9	8.6	11	16	30	18	15	12	11
23	11	9.7	9.0	7.9	8.6	12	15	29	18	15	12	11
24	11	9.7	8.6	7.6	8.6	11	15	27	17	14	12	11
25	10	10	8.6	8.3	8.6	11	14	31	17	14	13	11
26	10	10	8.6	8.3	7.8	12	13	34	17	14	13	11
27	10	10	8.6	8.3	7.2	11	13	37	17	14	12	11
28	9.3	10	8.6	7.9	7.0	10	13	38	17	14	13	11
29	11	9.7	8.6	8.0	-----	10	15	33	17	13	12	11
30	11	9.7	8.6	8.4	-----	10	17	29	16	13	12	11
31	11	-----	8.6	8.6	-----	10	-----	28	-----	13	12	-----
TOTAL	335.3	301.8	281.2	253.2	237.1	309.0	477.5	826	682	462	385	334
MEAN	10.8	10.1	9.07	8.17	8.47	9.97	15.9	26.6	22.7	14.9	12.4	11.1
MAX	11	11	9.7	9.0	9.6	12	25	38	30	19	13	13
MIN	9.3	9.0	8.6	6.9	7.0	7.4	9.5	18	16	13	12	11
AC-FT	665	599	558	502	470	613	947	1,640	1,350	916	764	662

CAL YR 1970 TOTAL 5,164.5 MEAN 14.1 MAX 62 MIN 7.7 AC-FT 10,240
WTR YR 1971 TOTAL 4,884.1 MEAN 13.4 MAX 38 MIN 6.9 AC-FT 9,690

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-16	1900	1.89	34				
5-03	1900	1.88	33	7-20	2300	2.06	50
5-27	2100	2.04	48	9-03	0300	1.80	25

SEVIER LAKE BASIN

239

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 northwest of Antimony and 9.5 miles east of Kingston.

DRAINAGE AREA.--380 sq mi, 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 (by barometer).

EXTREMES.--Current year: Maximum contents observed, 51,910 acre-ft Apr. 10, 20 (gage height, 35.7 ft); minimum observed, 12,080 acre-ft Sept. 30 (gage height, 15.0 ft).

Period of record: Maximum contents observed, 55,200 acre-ft May 20, 1948, June 10, 20, 1949, June 10, 1952, May 20, 1958, and May 20, 31, 1969 (gage height, 37.0 ft); minimum observed, 200 acre-ft Sept. 10, 1956 (gage height, 1.0 ft).

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between gage height zero (bottom of outlet gage) and 36.0 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft, capacity, 55,200 acre-ft. Spillway crest is at gage height 33.5 ft. 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 1970 TO SEPTEMBER 1971

DAY	CCT	NCV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	27,840	30,910	35,780	39,210	43,480	47,490	51,910	50,670	43,720	32,080		12,780
11											20,070	
12												
13												
14												
15												
16												
17												
18												
19												
20	28,590	32,280		40,750	45,330	48,950	51,910	50,170	40,310	28,400	17,030	12,360
21												
22												
23												
24												
25												
26												
27												
28					46,770							
29					-----							
30		34,320			-----		51,670		36,620			12,080
31	29,740	-----	37,480	41,850	-----	50,420	-----	47,010	-----	24,170	14,490	-----
(+)	25.7	28.0	29.5	31.5	33.6	35.1	35.6	33.7	29.1	22.7	16.7	15.0
(#)	+1,530	+4,580	+3,160	+4,410	+4,880	+3,650	+1,250	-4,660	-10,390	-12,450	-9,680	-2,410

CAL YR 1970..... * -10,980

WTR YR 1971..... * -16,130

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

* Change in contents, in acre-feet.

10189000 East Fork Sevier River near Kingston, Utah

LOCATION.--Lat 38°11'49", long 112°09'01", in NW¼SW¼SE¼ sec.13, T.30 S., R.3 W., Piute County, on left bank, 1,500 ft upstream from bridge on State Highway 22, 2.2 miles east of Kingston, 4.6 miles upstream from mouth, and 10 miles downstream from Otter Creek.

DRAINAGE AREA.--1,250 sq mi, approximately.

PERIOD OF RECORD.--March 1913 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft (from river-profile map). Prior to Apr. 29, 1914, staff gage at site 0.5 mile upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 2, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum.

AVERAGE DISCHARGE.--58 years, 78.1 cfs (56,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 245 cfs Aug. 28 (gage height, 2.09 ft); minimum daily, 8.0 cfs Jan. 5-8.

Period of record: Maximum discharge, 2,030 cfs May 12, 1941 (gage height, 5.05 ft); minimum recorded, 5.4 cfs Feb. 16, 1967.

REMARKS.--Records good except periods of no gage-height record, which are poor. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

REVISIONS (WATER YEAR)--WSP 750: 1931-32.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	19	19	18	14	13	29	44	206	194	201	175
2	69	19	19	18	14	13	29	46	200	226	201	175
3	69	19	19	14	16	13	30	48	191	222	206	175
4	66	19	19	11	16	13	30	50	188	221	213	174
5	62	22	18	8.0	16	14	24	52	188	221	214	174
6	29	22	18	8.0	16	16	18	54	186	224	215	172
7	26	22	18	8.0	16	18	18	57	190	226	213	169
8	25	22	18	8.0	16	18	18	52	190	223	214	48
9	25	22	18	10	16	18	33	50	183	220	213	38
10	24	22	18	11	16	18	41	52	187	217	209	36
11	23	18	20	11	16	18	42	52	187	213	207	36
12	23	18	20	11	16	18	43	55	188	212	203	34
13	22	18	20	11	16	18	42	54	185	214	203	36
14	21	18	20	11	16	19	44	54	185	216	203	35
15	21	18	20	11	16	19	45	56	185	217	202	35
16	20	18	20	11	16	19	44	61	182	106	203	35
17	20	18	18	11	16	20	47	69	179	220	202	34
18	21	18	17	11	16	20	48	67	182	222	205	35
19	20	18	17	12	16	21	48	65	179	221	199	37
20	20	18	17	12	16	21	47	63	179	218	199	40
21	19	18	17	12	14	21	47	62	179	218	198	38
22	19	18	17	12	14	22	45	61	179	221	195	37
23	19	18	16	13	14	23	43	68	179	215	195	38
24	19	18	16	14	14	25	43	72	176	195	190	38
25	20	18	16	14	14	28	44	102	175	188	189	38
26	21	18	16	14	14	30	45	204	179	185	188	39
27	19	19	17	14	13	30	47	203	179	182	190	39
28	19	19	18	14	13	30	44	205	176	182	199	41
29	19	19	18	14	-----	30	46	211	178	182	189	41
30	19	19	18	14	-----	30	45	207	179	192	187	41
31	19	-----	18	14	-----	29	-----	204	-----	201	179	-----
TOTAL	891	572	560	375.0	426	645	1,169	2,700	5,519	6,414	6,224	2,083
MEAN	28.7	19.1	18.1	12.1	15.2	20.8	39.0	87.1	184	207	201	69.4
MAX	73	22	20	18	16	30	48	211	206	226	215	175
MIN	19	18	16	8.0	13	13	18	44	175	106	179	34
AC-FT	1,770	1,130	1,110	744	845	1,280	2,320	5,360	10,950	12,720	12,350	4,130

CAL YR 1970 TOTAL 26,681.0 MEAN 73.1 MAX 296 MIN 14 AC-FT 52,920
WTR YR 1971 TOTAL 27,578.0 MEAN 75.6 MAX 226 MIN 8.0 AC-FT 54,700

NOTE.--No gage-height record Oct. 7 to Nov. 19, and Dec. 15 to Mar. 12.

SEVIER LAKE BASIN

241

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 south of Marysville.

DRAINAGE AREA.--2,400 sq mi, approximately.

PERIOD OF RECORD.--March 1914 to current year.

GAGE.--Staff gage usually read once daily except Sunday. Datum of gage is 5,900.8 ft above mean sea level (levels by Office of State Engineer).

EXTREMES.--Current year: Maximum contents observed, 59,720 acre-ft Apr. 7, 8 (gage height, 70.8 ft); minimum observed, 11,750 acre-ft Oct. 1 (gage height, 40.7 ft).

Period of record: Maximum contents, 82,300 acre-ft May 28, 1922 (gage height, 76.4 ft, 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 between gage heights 10 (approximate bottom of reservoir) and 76 ft (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft. 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)

40	10,980	65	48,170
45	16,760	70	58,030
50	23,380	75	69,260
55	30,870	76	71,830
60	39,150		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,750		23,380	32,630	41,960	50,070	59,300	52,790	35,250	30,870	18,010	15,190
2		13,680	23,670	32,950	42,320	50,450	59,510	52,000	35,250	30,090	18,010	
3		13,910	23,820		42,680	50,650	59,510	51,230	35,080	29,470	17,880	
4	11,750	14,140	23,560	33,600	43,040	50,840		50,450	34,910		17,880	14,720
5		14,370	24,250	33,760	43,220	51,030	59,510	49,500	34,580	28,400	17,880	16,270
6		14,600		33,920	43,580	51,420	59,510	48,360	34,250	27,940	17,880	16,640
7		14,960	24,820	34,250			59,720	47,430	34,250	27,490	17,760	17,010
8	11,750		25,110	34,580	44,120	52,200	59,720	46,500	34,080	26,890		17,380
9		15,540	25,550	34,910	44,480	52,390		45,390	33,920	26,290	17,760	17,510
10	191,000			54	49	492,400	19	71				
11		15,910	26,290	35,250	45,030	52,980		43,760	33,600	24,970	17,630	17,760
12	11,750	16,270	26,590	35,410	45,390	53,180	59,510	43,040	33,440	24,250	17,630	
13		16,520		35,740	45,760	53,570	59,300	42,320		23,530	17,510	18,010
14		16,760	27,190	36,080			58,880	41,430	33,440	22,820	17,380	18,140
15	11,750		27,490	36,420	46,310	54,370	58,660	40,720	33,440	22,260	17,260	18,140
16	11,750	17,380	27,780	36,760	46,680	54,570	58,450		33,600	21,710	16,760	18,140
17	11,750	17,630	28,050		46,870	54,970	58,240	39,330	33,600	21,170	16,270	
18		17,880	28,400	37,440	47,060	55,180		38,810	33,760	20,490	15,790	
19	11,860	18,270	28,700	37,780	47,430	55,580	57,830	38,120	33,920	19,830	15,430	
20	11,970	18,530		38,120	47,610	55,780	57,620	37,780		19,300	15,070	18,270
21	12,080	18,910	29,310	38,470			57,420	37,440		19,170	14,720	
22	12,190		29,620	38,810	48,170	56,190	57,210	37,100		19,040	14,370	
23	12,310	19,700	29,940	39,150	48,550	56,390	57,010			18,910	14,250	
24	12,420	20,230	30,250		48,740	56,800	56,800	36,420		18,780	14,140	18,400
25		20,620	30,560	39,850	48,930	57,210		36,080		18,780	14,020	
26	12,530	21,030	31,030	40,200	49,120	57,620	56,390	35,740		18,780	14,020	
27	12,650	21,440		40,550	49,500	57,830	55,980	35,580		18,660	14,020	
28	12,650	21,980	31,670	40,900	49,880		54,770	35,410	33,440	18,530	14,140	18,530
29	12,760		31,990	41,080	-----	58,450	53,970	35,410	33,110	18,400	14,370	
30	12,990	22,820	32,300	41,430	-----	58,660	53,380		32,460	18,270	14,600	18,590
31	13,220	-----	32,460	41,610	-----	59,090	-----	35,250	-----	18,140	14,840	-----
(+)	42.0	49.6	56.0	61.4	65.9	70.5	67.7	57.7	56.0	46.1	43.4	-----
(+)	+1,470	+9,600	+9,640	+9,150	+8,270	+9,210	-5,710	-18,130	-2,790	-14,320	-3,300	+3,750

CAL YR 1970..... + -27,680

WTR YR 1971..... + + 6,840

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

* Change in contents, in acre-feet.

a No gage-height reading; contents interpolated.

SEVIER LAKE BASIN

10191500 Sevier River below Piute Dam, near Marysvale, 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 downstream from Piute Dam and 8 miles south of Marysvale.

DRAINAGE AREA.--2,440 sq mi, approximately.

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft (by barometer). Prior to May 4, 1912, nonrecording gage at site 0.5 mile upstream at different datum. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.3 mile upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft higher.

AVERAGE DISCHARGE.--59 years (1912-71), 214 cfs (155,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 615 cfs July 19 (gage height, 2.80 ft); minimum daily, 2.0 cfs Jan. 5-7.
Period of record: Maximum discharge, 2,600 cfs 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 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	100	3.7	2.4	2.9	2.6	3.5	415	280	576	287	183
2	156	70	3.4	2.6	2.9	2.5	3.5	326	277	580	246	185
3	156	48	3.0	2.3	2.9	2.5	3.5	370	326	576	291	190
4	132	43	2.9	2.1	2.7	2.8	3.5	540	378	571	313	131
5	127	42	2.9	2.0	3.2	2.9	3.5	573	386	566	302	88
6	125	42	2.9	2.0	2.9	2.5	3.8	508	394	561	274	101
7	123	42	2.9	2.0	2.8	2.5	3.6	530	394	558	274	84
8	120	42	2.9	2.1	2.7	2.5	3.8	566	394	556	252	48
9	113	42	2.9	2.2	2.7	2.6	3.6	532	361	548	226	29
10	110	42	2.9	2.4	2.7	3.0	3.5	487	288	544	227	28
11	110	42	2.9	2.6	2.8	3.2	3.5	469	305	542	243	27
12	109	42	2.9	2.6	2.7	3.2	40	458	217	539	263	27
13	107	43	2.8	2.4	2.7	3.2	177	471	163	535	283	30
14	107	43	2.8	2.2	2.7	3.2	80	511	146	532	365	117
15	107	43	2.7	2.6	2.7	3.2	203	460	146	530	425	84
16	105	43	2.7	2.7	2.8	3.2	254	455	133	527	449	82
17	105	43	2.7	2.7	2.9	3.3	252	421	148	521	471	50
18	105	43	2.8	2.7	2.9	3.0	250	399	146	519	458	29
19	102	43	2.8	2.7	2.9	3.5	239	323	117	521	404	28
20	100	43	2.6	2.7	3.0	3.5	162	322	78	476	374	20
21	100	43	2.4	2.7	2.8	3.5	138	282	74	452	394	17
22	100	43	2.4	2.7	2.9	3.5	158	266	75	372	409	117
23	100	43	2.4	2.7	3.2	3.5	253	248	139	307	382	116
24	100	44	2.4	2.7	3.2	3.5	227	245	208	305	340	90
25	100	47	2.4	2.7	3.2	3.5	269	257	209	295	316	86
26	100	50	2.4	2.7	2.5	3.3	310	258	327	246	288	85
27	100	35	2.4	2.7	2.5	3.3	394	258	382	306	288	62
28	100	7.8	2.4	2.9	2.5	3.5	394	279	386	304	296	60
29	100	5.4	2.4	2.9	-----	3.4	394	274	489	314	206	33
30	100	4.4	2.4	2.9	-----	3.3	393	280	540	322	228	38
31	100	-----	2.4	2.9	-----	3.4	-----	280	-----	298	218	-----
TOTAL	3,475	1,263.6	84.5	78.5	79.3	96.6	4,626.3	12,063	7,906	14,399	9,792	2,265
MEAN	112	42.1	2.73	2.53	2.83	3.12	154	389	264	464	316	75.5
MAX	156	100	3.7	2.9	3.2	3.5	394	573	540	580	471	190
MIN	100	4.4	2.4	2.0	2.5	2.5	3.5	245	74	246	206	17
AC-FT	6,890	2,510	168	156	157	192	9,180	23,930	15,680	28,560	19,420	4,490

CAL YR 1970 TOTAL 79,912.9 MEAN 219 MAX 630 MIN 2.4 AC-FT 158,500
WTR YR 1971 TOTAL 56,128.8 MEAN 154 MAX 580 MIN 2.0 AC-FT 111,300

SEVIER LAKE BASIN

243

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 W., Sevier County, on right bank 0.6 mile upstream from bridge on U.S. Highway 89, 0.7 mile upstream from Clear Creek, and 1 mile south of Sevier.

DRAINAGE AREA.--2,700 sq. mi, 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 (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 downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

AVERAGE DISCHARGE.--31 years (1912-16, 1939-55, 1960-71), 239 cfs (173,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 613 cfs July 3 (gage height, 2.79 ft); minimum, 6.9 cfs Feb. 4, result of freezeup. Period of record (not including flow of Clear Creek): Maximum discharge, 2,270 cfs May 16, 1941 (gage height, 4.83 ft); minimum, 2.3 cfs Dec. 13, 1964.
1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 cfs during last week of May 1922, computed on basis of records for station near Marysville; minimum, 10 cfs Nov. 27, 1919.

REMARKS.--Records good except those for winter months, which are fair. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	148	34	30	25	9.6	21	395	319	593	290	230
2	187	148	28	30	25	9.6	22	462	321	602	284	223
3	185	145	27	29	25	11	22	309	323	605	267	217
4	180	94	26	8.8	23	17	22	450	416	597	314	213
5	160	85	26	8.8	24	15	21	587	428	591	326	205
6	154	79	26	8.8	26	14	21	579	443	586	302	174
7	158	77	25	8.8	25	17	21	549	444	582	295	137
8	158	78	25	9.6	25	19	21	587	449	577	300	123
9	155	74	25	10	25	22	22	594	456	574	269	89
10	141	71	25	13	24	22	22	543	370	570	231	62
11	137	71	24	14	24	22	22	521	410	565	270	52
12	136	72	23	13	24	22	23	499	357	562	256	48
13	134	75	23	11	23	22	84	494	281	560	284	46
14	134	73	24	10	23	22	123	529	253	559	307	57
15	134	71	26	14	24	22	109	525	280	557	422	112
16	134	71	26	20	23	21	232	497	307	556	471	105
17	134	71	26	25	24	21	254	479	342	560	488	99
18	134	71	26	25	24	19	257	453	356	556	498	79
19	129	71	22	25	24	21	260	395	319	549	486	53
20	129	71	25	25	23	22	232	359	277	537	453	48
21	129	71	28	25	9.6	22	168	337	247	494	427	45
22	129	71	28	25	9.6	21	159	309	243	434	419	43
23	129	71	28	25	9.6	21	207	305	255	362	422	118
24	131	71	28	25	9.6	21	255	288	328	321	416	128
25	131	72	24	26	9.6	22	241	289	340	319	405	116
26	131	78	23	26	9.6	22	298	296	326	294	393	105
27	131	87	30	25	9.6	21	355	302	455	277	379	103
28	132	62	30	25	9.6	22	400	313	448	308	372	88
29	137	39	30	25	-----	22	403	323	481	306	307	80
30	143	36	30	25	-----	22	414	318	534	317	256	62
31	145	-----	30	25	-----	22	-----	322	-----	322	248	-----
TOTAL	4,486	2,374	821	615.8	559.8	608.2	4,711	13,208	10,808	15,192	10,857	3,260
MEAN	145	79.1	26.5	19.9	20.0	19.6	157	426	360	490	350	109
MAX	205	148	34	30	26	22	414	594	534	605	498	230
MIN	129	36	22	8.8	9.6	21	21	288	243	277	231	43
AC-FT	8,900	4,710	1,630	1,220	1,110	1,210	9,340	26,200	21,440	30,130	21,530	6,470

CAL YR 1970 TOTAL 92,549.0 MEAN 254 MAX 651 MIN 22 AC-FT 183,600
WTR YR 1971 TOTAL 67,500.8 MEAN 185 MAX 605 MIN 8.8 AC-FT 133,900

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 downstream from outlet of Mill Canyon flood retention reservoir, 1.5 miles southeast of Glenwood, and 6 miles east of Richfield.

DRAINAGE AREA.--14 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete Parshall flume. Altitude of gage is 5,520 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 0.006 cfs (4.3 acre-ft per year).

EXTREMES AND DAILY DISCHARGE RECORD.--Current year: Maximum discharge, 57 cfs Aug. 28 (gage height, 1.72 ft); no flow for most of year.
Period of record: Maximum discharge, 57 cfs Aug. 28, 1971 (gage height, 1.72 ft); no flow most of time.

REMARKS.--Records excellent. Station established to conduct a trap-efficiency study in Soil Conservation Service debris basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0				0	0	
2						0				0	0	
3						0				0	0	
4						0				0	0	
5						0				0	0	
6						0				0	.53	
7						0				0	0	
8						0				0	0	
9						0				0	0	
10						0				0	0	
11						0				0	0	
12						0				0	0	
13						0				0	0	
14						0				0	0	
15						0				0	0	
16						0				0	0	
17						0				0	0	
18						0				0	0	
19						0				2.7	0	
20						0				.02	0	
21						0				0	0	
22						0				0	0	
23						0				0	0	
24						0				0	0	
25						0				0	0	
26						3.3				0	0	
27						2.2				0	0	
28						.04				0	3.2	
29					-----	0				0	.02	
30					-----	0				0	0	
31		-----			-----	0	-----		-----	0	0	-----
TOTAL	0	0	0	0	0	5.54	0	0	0	2.72	3.75	0
MEAN	0	0	0	0	0	.18	0	0	0	.088	.12	0
MAX	0	0	0	0	0	3.3	0	0	0	2.7	3.2	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	11	0	0	0	5.4	7.4	0
CAL YR 1970	TOTAL	0.00	MEAN .0000	MAX .00	MIN 0	AC-FT .0						
WTR YR 1971	TOTAL	12.01	MEAN .033	MAX 3.3	MIN 0	AC-FT 24						

LOCATION.--Lat 38°52'24", long 111°57'14", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.19, T.22 S., R.1 W., Sevier County, on left bank 200 ft downstream from county road bridge. 0.5 mile downstream from Rocky Ford Dam. 2 miles northeast of Sigurd, and 5 miles upstream from Lost Creek.

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 (by barometer). July to September 1912, nonrecording gage 0.3 mile 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 lower.

EXTREMES.--Current year: Maximum discharge, 364 cfs Oct. 16 (gage height, 3.15 ft); minimum, 2.2 cfs June 30.

Period of record: Maximum discharge, 2,400 cfs May 30, 1922 (gage height, 6.1 ft, present datum), from rating curve extended above 600 cfs on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Minersville Reservoir gates were closed.

REVISIONS (WATER YEARS).--WSP 1394: 1927-28, 1947.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	173	128	119	127	127	123	12	14	2.7	37	54
2	96	171	124	122	128	128	120	12	11	2.7	49	59
3	89	169	123	118	133	127	118	12	6.2	2.6	59	65
4	88	164	120	107	132	131	112	7.6	4.9	2.6	53	67
5	86	155	124	109	124	136	87	6.0	5.7	2.6	51	69
6	78	133	128	109	131	134	48	6.2	4.0	2.5	45	71
7	78	124	127	114	131	127	35	8.7	3.1	2.5	30	61
8	88	129	127	118	123	120	34	11	11	2.5	25	59
9	101	131	128	119	122	120	31	14	19	2.5	30	66
10	107	131	125	124	124	122	34	15	24	2.5	36	66
11	108	125	124	127	127	134	36	21	26	2.5	45	68
12	109	131	123	128	126	145	40	16	28	2.5	46	78
13	117	137	119	132	125	161	30	15	31	2.5	26	79
14	119	139	118	128	120	171	16	15	32	2.5	17	74
15	116	133	120	129	120	145	25	24	34	2.6	17	59
16	231	132	125	131	117	124	27	35	32	2.7	14	63
17	208	128	127	134	118	118	22	37	59	2.7	16	85
18	166	127	131	142	123	112	18	41	71	2.7	18	90
19	157	125	123	148	128	104	52	47	76	2.6	24	86
20	142	128	113	146	129	87	78	49	44	2.6	29	58
21	125	127	118	148	131	91	83	51	25	2.7	30	48
22	128	129	123	146	120	80	80	35	14	2.9	31	35
23	136	128	127	145	122	78	67	26	10	2.7	29	30
24	139	125	122	136	124	83	62	19	6.0	2.6	28	32
25	139	123	113	129	123	87	40	15	3.4	14	28	38
26	148	129	111	127	123	105	32	12	2.6	27	37	42
27	161	140	113	128	117	104	23	6.2	2.8	32	43	44
28	167	149	120	128	125	100	16	5.1	2.6	41	68	40
29	175	149	120	127	-----	125	13	6.8	2.5	41	67	38
30	180	140	117	127	-----	129	11	9.0	2.6	37	65	37
31	177	-----	120	127	-----	123	-----	14	-----	24	59	-----
TOTAL	4,057	4,124	3,781	3,972	3,493	3,678	1,513	603.6	607.4	278.5	1,152	1,761
MEAN	131	137	122	128	125	119	50.4	19.5	20.2	8.98	37.2	58.7
MAX	231	173	131	148	133	171	123	51	76	41	68	90
MIN	78	123	111	107	117	78	11	5.1	2.5	2.5	14	30
AC-FT	8,050	8,180	7,500	7,880	6,930	7,300	3,000	1,200	1,200	552	2,280	3,490
CAL YR 1970	TOTAL	47,547.9	MEAN	130	MAX	450	MIN	2.0	AC-FT	94,310		
WTR YR 1971	TOTAL	29,020.5	MEAN	79.5	MAX	231	MIN	2.5	AC-FT	57,560		

SEVIER LAKE BASIN

247

10205030 Salina Creek near Emery, Utah

LOCATION.--Lat 38°52'41", long 111°31'57", 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 upstream from Soil Conservation Service retention dam, 15 miles west of Emery, and 18 miles east of Salina.

DRAINAGE AREA.--53 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage, 7,000 ft (from topographic map). Prior to June 9, 1971, at site 300 ft downstream at different datum.

AVERAGE DISCHARGE.--8 years, 16.7 cfs (12,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 118 cfs May 15 (gage height, 3.76 ft); maximum gage height, 4.39 ft Jan. 1 (backwater from ice); minimum discharge, 3.1 cfs Mar. 19, result of discharge measurement.

Period of record: Maximum discharge, 195 cfs May 22, 1970 (gage height, 3.83 ft); maximum gage height, 4.39 ft Jan. 1, 1971 (backwater from ice); minimum discharge recorded, 2.8 cfs Dec. 15, 1966, Mar. 9, 1969.

REMARKS.--Records good, except those for winter periods, which are fair. No diversion above station. Slight regulation from small reservoirs at headwaters.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	12	11	6.0	5.0	13	21	58	22	15	13
2	12	12	13	11	6.0	5.0	13	28	56	21	15	13
3	12	12	13	11	6.0	5.0	12	37	56	21	15	15
4	12	12	13	11	6.0	5.0	13	39	53	20	15	14
5	12	12	11	11	5.8	5.0	14	28	58	20	16	14
6	13	12	11	11	5.6	5.0	15	31	58	19	16	14
7	13	12	11	11	5.3	5.0	16	33	42	19	16	17
8	13	12	11	11	5.1	5.0	17	33	37	19	16	16
9	13	13	11	11	5.0	5.0	20	31	45	19	16	13
10	13	12	11	11	5.0	5.0	25	31	49	18	15	6.1
11	12	11	11	10	5.0	5.0	26	44	50	18	15	6.3
12	12	11	11	9.1	5.0	5.0	27	46	45	17	15	6.4
13	12	11	11	8.2	5.0	5.0	31	58	42	17	17	6.5
14	12	11	11	7.3	5.0	5.0	27	77	41	17	16	6.7
15	12	11	11	6.6	5.0	5.0	31	93	41	17	16	6.9
16	12	11	11	6.0	5.0	5.0	37	98	40	16	16	6.9
17	12	11	11	6.0	5.0	5.0	30	82	39	16	16	7.1
18	12	11	11	6.0	5.0	5.3	23	60	38	16	16	7.4
19	12	11	11	6.0	5.0	6.0	17	53	36	17	15	7.7
20	12	11	11	6.0	5.0	7.0	17	58	33	21	16	7.9
21	12	11	11	6.0	5.0	8.0	17	67	32	17	13	8.2
22	12	11	11	6.0	5.0	9.3	17	65	31	16	10	8.5
23	12	11	11	6.0	5.0	11	18	56	30	16	10	8.7
24	12	11	11	6.0	5.0	11	16	60	28	16	10	9.0
25	12	11	11	6.0	5.0	11	16	72	27	15	11	9.2
26	12	12	11	6.0	5.0	12	15	75	26	15	10	9.5
27	12	11	11	6.0	5.0	13	15	82	25	14	11	9.8
28	12	11	11	6.0	5.0	13	16	82	24	14	12	10
29	12	11	11	6.0	-----	12	17	75	24	14	12	11
30	12	11	11	6.0	-----	14	19	65	23	15	12	11
31	12	-----	11	6.0	-----	14	-----	62	-----	15	13	-----
TOTAL	377	342	348	247.2	145.8	231.6	590	1,742	1,187	537	437	299.8
MEAN	12.2	11.4	11.2	7.97	5.21	7.47	19.7	56.2	39.6	17.3	14.1	9.99
MAX	13	13	13	11	6.0	14	37	98	58	22	17	17
MIN	12	11	11	6.0	5.0	5.0	12	21	23	14	10	6.1
AC-FT	748	678	690	490	289	459	1,170	3,460	2,350	1,070	867	595

CAL YR 1970 TOTAL 8,373.9 MEAN 22.9 MAX 184 MIN 5.0 AC-FT 16,610

WTR YR 1971 TOTAL 6,484.4 MEAN 17.8 MAX 98 MIN 5.0 AC-FT 12,860

PEAK DISCHARGE (BASE, 60 CFS).--May 15 (2300) 118 cfs (3.76 ft); May 27 (2300) 101 cfs (3.63 ft).

LOCATION.--Lat 38°57'25", long 111°51'58", in SW¼NW¼ sec.25, T.21 S., R.1 W., Sevier County, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mile upstream from mouth.

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.

EXTREMES.--Current year: Maximum discharge, 650 cfs July 19 (gage height, 3.81 ft); minimum, 0.28 cfs July 30, Aug. 2, 4.
Period of record: Maximum discharge, 1,800 cfs Aug. 26, 1970 (gage height, 7.17 ft, from floodmark), from rating curve extended above 400 cfs, on basis of slope-area measurement of peak flow; no flow at times.

REVISIONS (WATER YEARS).--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1962(M), 1965(M).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	28	21	19	24	20	61	56	80	6.3	.45	.68
2	.98	25	24	20	27	26	53	78	75	5.3	.42	.70
3	.93	21	25	18	22	25	53	86	73	3.5	.82	11
4	1.1	24	19	17	20	21	37	90	71	3.1	.42	.73
5	.97	25	27	17	27	21	30	94	70	4.1	.78	.69
6	1.4	22	17	17	20	25	34	95	69	3.1	.75	.60
7	3.2	32	19	17	18	28	36	97	68	1.8	1.2	1.6
8	3.3	30	25	17	24	23	42	99	72	2.5	.58	2.4
9	1.5	23	27	17	25	21	46	102	67	2.7	.55	.72
10	1.3	30	22	17	24	22	68	102	66	2.6	.57	.60
11	1.5	24	17	17	26	26	73	102	73	2.6	.52	.62
12	1.5	26	16	17	26	31	78	112	75	2.6	.66	.62
13	1.1	28	14	17	26	38	82	131	60	2.3	.53	1.2
14	1.2	23	12	16	29	23	68	145	61	2.3	.58	.75
15	1.1	18	18	17	26	22	66	159	65	2.3	.56	.63
16	10	24	18	19	22	20	88	176	67	2.3	.84	.60
17	21	25	21	23	23	26	92	152	62	2.3	.71	.59
18	22	25	20	30	22	19	75	126	61	2.3	1.2	.70
19	21	22	18	70	16	18	44	106	55	50	.98	.83
20	21	19	16	43	16	24	45	104	45	10	.73	1.3
21	21	27	20	33	17	33	48	114	39	2.0	.71	.72
22	23	28	22	26	19	42	54	127	34	.66	.58	.73
23	24	26	20	27	21	64	50	119	35	.55	.61	1.4
24	27	26	16	26	25	97	45	106	29	.50	.68	2.2
25	23	30	14	28	21	80	45	114	22	.49	.75	2.4
26	23	51	15	27	21	86	33	118	15	.48	.83	4.8
27	25	38	22	25	20	102	33	127	13	.47	1.0	3.9
28	20	29	23	23	20	80	34	128	13	.47	7.0	.76
29	26	28	21	22	-----	61	38	111	8.2	.47	3.2	.75
30	28	34	21	25	-----	73	45	93	8.3	.47	1.1	.85
31	29	-----	20	25	-----	76	-----	89	-----	.65	2.0	-----
TOTAL	386.00	811	610	732	627	1,273	1,596	3,458	1,551.5	121.21	32.31	46.07
MEAN	12.5	27.0	19.7	23.6	22.4	41.1	53.2	112	51.7	3.91	1.04	1.54
MAX	29	51	27	70	29	102	92	176	80	50	7.0	11
MIN	.92	18	12	16	16	18	30	56	8.2	.47	.42	.59
AC-FT	766	1,610	1,210	1,450	1,240	2,530	3,170	6,860	3,080	240	64	91
CAL YR 1970	TOTAL 13,589.80		MEAN 37.2	MAX 495	MIN .70	AC-FT 26,960						
WTR YR 1971	TOTAL 11,244.09		MEAN 30.8	MAX 176	MIN .42	AC-FT 22,300						

SEVIER LAKE BASIN

249

10208500 Oak Creek near Fairview, Utah

LOCATION.--Lat 39°40'26", long 111°24'30", in NW 1/4, NE 1/4, SW 1/4 sec.19, T.13 S., R.5 E., Sanpete County, on right bank 1.5 miles upstream from mouth and 3.5 miles northeast of Fairview.

DRAINAGE AREA.--11 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--7 years, 11.4 cfs (8,260 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 139 cfs May 15 (gage height, 3.52 ft); minimum, 1.0 cfs Mar. 19.

Period of record: Maximum discharge, 208 cfs May 14, 1969 (gage height, 3.72 ft); maximum gage height, 3.79 ft June 5, 1968; minimum discharge, 0.9 cfs Mar. 19, 1965.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.5	2.9	2.5	2.6	2.5	4.1	17	50	9.8	3.3	2.9
2	1.9	2.5	2.8	2.5	2.8	2.5	4.0	21	45	9.3	3.2	2.8
3	1.9	2.3	2.5	2.3	2.6	2.5	3.8	27	42	8.7	3.1	3.7
4	1.9	2.3	2.8	2.3	2.6	2.5	4.0	32	41	8.3	3.3	3.3
5	2.1	2.3	2.9	2.3	2.6	2.8	4.5	32	39	7.6	3.4	2.9
6	2.5	2.3	2.8	2.3	2.5	2.7	5.2	32	37	7.2	3.2	2.7
7	2.5	2.5	2.8	2.3	2.6	2.6	6.0	33	35	6.8	3.2	4.8
8	2.3	2.8	2.9	2.3	2.5	2.6	5.9	34	34	6.4	3.4	3.5
9	2.3	2.6	2.8	2.3	2.4	2.6	6.7	33	33	6.0	3.5	2.9
10	2.8	2.6	2.8	2.3	2.5	2.6	8.6	33	31	5.4	3.1	2.7
11	2.3	2.6	2.6	2.3	2.5	2.6	10	38	30	5.1	2.9	2.5
12	2.3	2.6	2.2	2.3	2.5	2.6	11	47	28	4.8	2.9	2.5
13	2.3	2.6	2.3	2.3	2.5	2.6	12	57	26	4.4	2.8	2.5
14	2.2	2.2	2.6	2.3	2.6	2.4	13	76	25	4.4	2.8	2.5
15	2.2	2.2	2.8	2.3	2.6	2.4	13	106	24	4.4	2.8	2.5
16	2.2	2.6	2.6	2.3	2.5	2.4	15	126	23	4.2	2.8	2.4
17	2.2	2.8	2.6	2.5	2.5	2.4	16	114	22	4.7	2.8	2.5
18	2.2	2.8	2.8	3.3	2.6	2.3	16	96	20	5.9	3.1	2.6
19	2.2	2.8	2.5	3.8	2.6	2.2	15	83	19	5.2	2.8	2.6
20	2.2	2.6	2.5	3.4	2.6	2.3	15	76	18	4.6	2.7	2.6
21	2.3	2.8	2.6	2.6	2.4	2.4	14	74	17	4.4	2.8	2.7
22	2.6	2.9	2.6	2.5	2.3	2.3	13	70	16	4.5	3.0	2.5
23	2.6	2.9	2.6	2.8	2.6	2.4	13	65	15	4.5	3.0	2.5
24	2.8	3.1	2.6	2.9	2.5	2.6	13	66	14	4.2	2.8	2.5
25	2.5	3.3	2.5	2.6	2.5	2.3	13	75	13	3.9	2.9	2.4
26	2.5	3.4	2.5	2.6	2.5	3.1	13	87	13	3.8	3.2	2.4
27	2.5	3.1	2.5	2.6	2.5	4.8	12	87	12	3.8	2.9	2.4
28	2.2	3.4	2.5	2.6	2.5	3.9	12	82	12	3.6	3.2	2.3
29	2.5	3.1	2.5	2.5	-----	3.9	12	73	11	3.4	5.3	2.3
30	2.5	2.9	2.5	2.6	-----	4.7	14	68	10	3.3	3.5	2.6
31	2.6	-----	2.5	2.5	-----	4.9	-----	59	-----	3.4	3.1	-----
TOTAL	72.0	81.4	81.4	79.0	71.0	87.4	317.8	1,919	755	166.0	96.8	82.0
MEAN	2.32	2.71	2.63	2.55	2.54	2.82	10.6	61.9	25.2	5.35	3.12	2.73
MAX	2.8	3.4	2.9	3.8	2.8	4.9	16	126	50	9.8	5.3	4.8
MIN	1.9	2.2	2.2	2.3	2.3	2.2	3.8	17	10	3.3	2.7	2.3
AC-FT	143	161	161	157	141	173	630	3,810	1,500	329	192	163

CAL YR 1970 TOTAL 3,773.2 MEAN 10.3 MAX 126 MIN 1.9 AC-FT 7,480
WTR YR 1971 TOTAL 3,808.8 MEAN 10.4 MAX 126 MIN 1.9 AC-FT 7,550

PEAK DISCHARGE (BASE, 25 CFS).--May 15 (2100) 139 cfs (3.52 ft); May 26 (1700) 100 cfs (3.29 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 downstream from South Fork and 3.9 miles east of Mount Pleasant.

DRAINAGE AREA.--16 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,759.67 ft above mean sea level (levels by U.S. Soil Conservation Service).

AVERAGE DISCHARGE.--17 years, 17.2 cfs (12,460 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 86 cfs June 9 (gage height, 4.49 ft); minimum, 7.4 cfs Feb. 22.

Period of record: Maximum discharge not determined, occurred during mud-rock flow Aug. 16, 1955 (estimated flow, 750 cfs below debris basin located 0.5 mile below gage); minimum, 0.8 cfs Sept. 28, 1959, caused by temporary obstruction upstream.

Flood of July 24, 1946, was 2,060 cfs, from critical-depth measurement of peak flow over retention dam 0.5 mile below gage.

REMARKS.--Records good except those above 25 cfs, which are 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	13	10	9.8	9.9	9.7	12	17	60	34	14	11
2	9.2	13	10	9.9	9.9	9.7	13	19	62	32	13	11
3	9.2	13	9.9	9.5	9.7	9.6	12	20	65	31	13	12
4	9.7	13	10	9.5	9.5	9.7	13	20	66	29	13	11
5	9.7	13	10	9.7	9.9	9.6	14	18	69	26	14	11
6	10	13	10	9.7	9.7	9.4	14	18	71	25	13	11
7	9.8	14	10	9.7	9.7	9.6	14	18	76	23	13	13
8	9.9	13	10	9.7	9.6	9.7	14	18	78	22	13	11
9	9.9	13	10	9.7	9.6	9.7	15	17	80	21	13	11
10	10	13	10	9.7	9.7	9.7	15	18	83	19	13	10
11	10	12	9.8	9.7	9.7	9.7	15	19	78	19	14	10
12	10	12	9.7	9.7	9.8	9.9	16	20	71	19	14	9.9
13	10	12	9.8	9.7	9.9	9.8	16	22	70	19	14	9.8
14	10	11	10	9.8	9.9	9.5	14	25	72	19	13	9.8
15	10	11	10	9.7	9.9	9.7	14	31	76	19	13	9.8
16	10	12	10	9.7	9.8	9.5	15	34	76	18	13	9.8
17	11	11	10	10	9.8	9.6	15	33	81	18	13	9.8
18	11	11	10	11	9.9	9.5	15	32	83	18	13	9.8
19	11	11	10	11	9.7	9.5	14	32	82	18	13	9.9
20	11	11	10	11	9.6	10	14	32	78	17	13	9.9
21	11	10	9.8	9.7	9.2	10	14	34	77	17	13	10
22	11	10	9.8	9.7	9.2	10	13	35	76	17	13	9.9
23	11	10	9.7	9.8	9.8	10	13	36	76	16	13	9.5
24	12	10	9.6	9.7	9.6	10	13	40	73	16	12	9.3
25	12	11	9.7	9.6	9.7	10	14	46	61	16	12	9.3
26	12	11	9.7	9.8	9.6	11	13	53	55	15	13	9.3
27	12	10	9.7	9.8	9.6	12	13	57	50	14	12	9.3
28	12	10	9.7	9.7	9.7	11	13	61	45	14	13	9.4
29	12	11	9.9	9.7	-----	11	13	59	41	14	12	9.3
30	13	11	9.7	9.8	-----	12	15	58	36	14	12	9.8
31	13	-----	9.8	9.8	-----	12	-----	59	-----	14	11	-----
TOTAL	331.6	349	306.3	305.3	271.6	312.1	418	1,001	2,067	613	401	305.6
MEAN	10.7	11.6	9.88	9.85	9.70	10.1	13.9	32.3	68.9	19.8	12.9	10.2
MAX	13	14	10	11	9.9	12	16	61	83	34	14	13
MIN	9.2	10	9.6	9.5	9.2	9.4	12	17	36	14	11	9.3
AC-FT	658	692	608	606	539	619	829	1,990	4,100	1,220	795	606

CAL YR 1970 TOTAL 5,830.6 MEAN 16.0 MAX 95 MIN 9.2 AC-FT 11,570

WTR YR 1971 TOTAL 6,681.5 MEAN 18.3 MAX 83 MIN 9.2 AC-FT 13,250

PEAK DISCHARGE (BASE, 50 CFS).--June 9 (1900) 86 cfs (4.49 ft).

SEVIER LAKE BASIN

251

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 upstream from powerplant diversion, 0.8 mile downstream from South Fork, and 4.5 miles southeast of Spring City.

DRAINAGE AREA.--8.0 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 10.2 cfs (7,390 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 133 cfs June 18 (gage height, 2.58 ft); minimum, 2.3 cfs Apr. 6, 7.

Period of record: Maximum discharge, 300 cfs July 23, 1965 (gage height, 3.75 ft, from floodmark), from rating curve extended above 75 cfs; minimum, 0.93 cfs Mar. 6, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.2	4.1	3.7	3.7	3.5	3.0	6.8	29	34	9.3	5.9
2	5.5	5.2	4.0	3.5	3.7	3.5	3.0	7.6	32	31	9.1	6.6
3	5.2	5.2	4.0	3.5	3.7	3.5	2.8	8.6	37	28	9.5	7.8
4	5.3	5.2	4.0	3.5	3.7	3.5	2.7	9.6	40	26	9.9	7.2
5	5.5	5.2	4.0	3.3	3.7	3.5	2.5	9.7	41	22	9.3	6.9
6	6.2	5.2	4.0	3.2	3.7	3.5	2.4	9.3	42	20	8.7	6.2
7	5.5	5.3	4.0	3.2	3.7	3.5	2.9	9.1	50	19	9.3	8.4
8	5.8	5.0	4.0	3.2	3.7	3.5	4.0	9.1	54	17	8.2	6.7
9	5.9	5.1	4.1	3.2	3.7	3.5	4.4	8.6	56	14	8.2	6.3
10	5.9	4.9	4.2	3.2	3.7	3.5	5.0	8.8	58	14	7.5	6.2
11	5.7	4.8	4.1	3.2	3.7	3.5	5.4	9.0	56	13	7.1	6.0
12	6.0	4.9	4.1	3.2	3.7	3.5	5.8	9.8	52	13	6.9	5.9
13	5.9	4.8	4.0	3.2	3.7	3.5	6.2	11	54	13	6.8	5.8
14	5.5	4.6	4.0	3.2	3.7	3.5	6.5	14	62	12	6.8	5.7
15	5.2	4.6	3.8	3.2	3.7	3.5	6.2	19	95	12	6.3	5.7
16	5.3	4.6	3.8	3.2	3.7	3.5	6.9	24	97	12	6.1	5.4
17	5.3	4.6	4.1	3.3	3.7	3.5	7.3	21	116	12	6.2	5.5
18	5.2	4.6	4.6	3.5	3.7	3.5	7.1	19	126	11	6.2	5.4
19	5.2	4.7	4.2	3.7	3.5	3.5	6.9	17	121	12	6.1	5.3
20	5.2	4.3	4.0	3.7	3.5	3.5	6.6	16	112	12	6.0	5.4
21	5.5	4.3	3.5	3.7	3.5	3.5	6.3	17	109	11	6.1	5.4
22	5.5	4.3	3.6	3.7	3.5	3.5	6.2	17	106	11	6.2	5.3
23	5.6	4.3	3.8	3.7	3.5	3.5	6.0	16	100	11	6.2	5.2
24	5.8	4.3	3.9	3.7	3.5	3.5	5.9	18	100	11	6.1	5.2
25	5.5	4.3	3.7	3.7	3.5	3.5	5.9	24	94	11	6.0	4.9
26	5.6	4.3	3.7	3.7	3.5	3.5	5.5	34	79	10	6.1	4.9
27	5.5	4.3	3.7	3.7	3.5	3.3	5.4	44	61	10	5.7	4.9
28	5.4	4.1	3.7	3.7	3.5	3.2	5.4	50	51	9.7	6.1	4.7
29	5.4	4.1	3.7	3.7	-----	3.2	5.7	47	43	9.9	5.5	4.7
30	5.5	4.3	3.7	3.7	-----	3.2	6.2	38	37	9.7	5.9	4.7
31	5.5	-----	3.7	3.7	-----	3.0	-----	32	-----	9.5	6.2	-----
TOTAL	171.6	140.6	121.8	107.6	101.6	106.9	156.1	584.0	2,110	460.8	219.6	174.2
MEAN	5.54	4.69	3.93	3.47	3.63	3.45	5.20	18.8	70.3	14.9	7.08	5.81
MAX	6.2	5.3	4.6	3.7	3.7	3.5	7.3	50	126	34	9.9	8.4
MIN	5.2	4.1	3.5	3.2	3.5	3.0	2.4	6.8	29	9.5	5.5	4.7
AC-FT	340	279	242	213	202	212	310	1,160	4,190	914	436	346

CAL YR 1970 TOTAL 2,968.3 MEAN 8.13 MAX 45 MIN 2.6 AC-FT 5,890
WTR YR 1971 TOTAL 4,454.8 MEAN 12.2 MAX 126 MIN 2.4 AC-FT 8,840

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-27	1900	2.28	51	6-18	2000	2.58	133
6-09	1900	2.33	64				

NOTE.--No gage-height record Jan. 5 to Feb. 21, Feb. 23 to Mar. 26.

SEVIER LAKE BASIN

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 downstream from a side road bridge 0.6 mile upstream from upper powerplant, 2.3 miles east of cattle guard at Manti-La Sal Forest Boundary, and 3.5 miles east of Manti.

DRAINAGE AREA.--26.4 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 28.5 cfs (20,650 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 283 cfs June 16 (gage height, 2.38 ft); minimum, 4.0 cfs Feb. 16.

Period of record: Maximum discharge, 348 cfs May 28, 1969 (gage height, 2.49 ft); minimum, 0.90 cfs Nov. 3, 1968.

REMARKS.--Records poor. Records do not include flow diverted around station in an 8-inch 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.6	6.4	5.1	5.4	6.0	9.3	27	65	67	28	12
2	7.8	7.3	6.6	5.0	5.5	5.2	9.2	31	65	63	27	12
3	8.0	7.6	7.0	5.0	5.6	5.0	8.7	37	67	59	26	14
4	8.0	8.0	7.0	5.0	5.5	5.0	9.0	37	73	56	25	13
5	8.0	7.3	7.0	5.2	5.5	4.9	9.7	34	77	53	26	12
6	8.3	7.0	7.0	5.2	5.9	4.8	11	33	97	50	26	12
7	9.2	7.4	6.8	5.2	5.4	4.8	12	34	135	49	26	15
8	9.0	6.9	6.4	5.2	4.8	4.8	13	34	137	48	25	12
9	9.3	7.3	6.0	5.2	4.7	4.8	14	33	137	46	25	12
10	9.7	7.7	5.6	5.2	4.8	4.8	14	32	153	45	24	11
11	9.2	7.1	5.5	5.0	4.9	4.9	15	35	145	43	22	11
12	9.2	6.7	5.5	5.0	4.9	5.6	17	38	110	44	21	10
13	9.2	6.5	5.5	5.0	5.0	5.5	20	41	127	43	20	9.8
14	8.8	7.5	5.5	5.0	5.0	5.2	23	48	161	42	19	9.8
15	8.6	13	5.5	5.0	4.8	4.9	27	59	178	42	19	9.5
16	7.9	9.4	5.5	5.0	4.6	5.6	28	73	198	41	18	9.5
17	8.2	8.2	5.5	5.2	4.5	5.0	28	62	221	41	18	9.5
18	8.0	7.2	5.4	6.4	4.8	6.3	25	49	194	40	18	9.4
19	7.9	7.5	5.1	8.4	5.4	9.0	22	47	188	39	19	9.5
20	7.7	8.1	5.1	7.6	5.2	6.7	22	46	183	40	18	9.3
21	7.8	8.0	5.0	6.1	5.1	6.3	21	47	171	39	16	9.5
22	7.9	6.8	5.0	6.0	5.1	5.9	20	47	160	38	18	9.3
23	7.9	6.1	5.0	5.8	5.2	5.8	19	45	155	37	17	9.1
24	8.6	6.3	5.0	5.7	5.2	6.0	20	46	136	36	15	9.0
25	7.7	6.7	5.2	5.6	5.2	5.8	18	56	119	35	15	8.7
26	7.6	6.6	5.2	5.5	5.4	8.2	17	72	105	34	15	8.3
27	8.0	6.7	5.2	5.5	5.6	9.7	16	97	94	33	17	8.3
28	11	6.4	5.2	5.4	6.1	8.7	16	115	83	31	16	8.3
29	8.5	6.2	5.0	5.4	-----	9.1	18	94	75	30	14	8.3
30	8.1	6.1	5.0	5.4	-----	11	22	77	70	29	13	8.9
31	7.9	-----	5.2	5.3	-----	10	-----	71	-----	29	13	-----
TOTAL	261.0	221.2	175.9	170.6	145.1	195.3	523.9	1,597	3,879	1,322	619	310.0
MEAN	8.42	7.37	5.67	5.50	5.18	6.30	17.5	51.5	129	42.6	20.0	10.3
MAX	11	13	7.0	8.4	6.1	11	28	115	221	67	28	15
MIN	7.6	6.1	5.0	5.0	4.5	4.8	8.7	27	65	29	13	8.3
AC-FT	518	439	349	338	288	387	1,040	3,170	7,690	2,620	1,230	615

CAL YR 1970 TOTAL 11,229.2 MEAN 30.8 MAX 276 MIN 3.8 AC-FT 22,270
WTR YR 1971 TOTAL 9,420.0 MEAN 25.8 MAX 221 MIN 4.5 AC-FT 18,680

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-27	2200	1.99	167	6-16	1900	2.38	283
6-10	1900	2.14	204				

SEVIER LAKE BASIN

253

10216200 Gunnison Reservoir 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 250 ft upstream from earthfill, rockfaced dam on San Pitch River, 1.2 miles northwest of Sterling, 5 miles southwest of Manti, and 7 miles northeast of Gunnison.

DRAINAGE AREA.--672 sq mi.

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 above mean sea level. (Levels by U.S. Soil Conservation Service and U.S. Geological Survey.)

EXTREMES.--Current year: Maximum observed contents, 18,330 acre-ft Mar. 22-24 (elevation, 5,389.7 ft); minimum observed, 2,690 acre-ft Sept. 20, 30 (elevation, 5,372.8 ft).

Period of record: Maximum contents observed, 18,960 acre-ft July 9-11, 1965 (elevation, 5,390.2 ft); no contents during September 1966, Oct. 1-13, 1966.

REMARKS.--The reservoir is formed by earthfill, rock-faced dam on the San Pitch River. Active capacity, 18,200 acre-ft at elevation 5,389.6 ft. Dead storage 650 acre-ft below elevation 5,366.2 ft. 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)

5,372	2,280	5,382	9,610
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

CONTENTS, IN ACRE-FEET, AT 1200, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,610	6,400	10,600	15,12C	17,31C	17,310	18,07C	15,720	12,940	12,940	9,810	5,110
2						17,440	18,07C			12,940	9,610	4,970
3					17,44C		18,070	15,480				
4				15,60C	17,44C					12,830		
5	4,68C					17,690	18,200	15,240	12,610			
6						17,820						4,350
7			11,850				18,07C		12,390	12,720		
8				16,200	17,19C		18,070					4,150
9							18,07C			12,500		
10					16,940	18,200		14,650	12,180			
11					16,94C	18,200						
12		7,750				18,200	17,560	14,420				
13				16,200	17,560	18,200	17,440			12,180		
14		8,020	13,060					14,190	12,070			3,410
15							17,310		11,960			
16				16,450	17,82C	18,070	17,190		12,180	11,850	7,490	
17					17,950	18,200		14,070	12,290			
18						17,950						
19					17,69C	18,200			12,390			
20			13,96C					13,840	12,500			2,690
21				17,070			16,820					
22					17,56C	18,330						
23						18,330			12,720			
24					17,31C	18,330					6,240	
25		9,610					16,200	13,500	12,830	10,910		
26				17,95C								
27		10,000		17,950				13,170			5,780	
28				17,690	a 17,310				12,940			
29			14,890	17,56C	-----	18,070						
30	6,320	a 10,450			-----		15,720		12,940	10,200	5,400	2,690
31	a 6,360	-----	15,12C	17,31C	-----	a 18,070	-----	12,940	-----	10,000	a 5,250	-----
(+)	-----	-----	5,387.1	5,388.9	-----	-----	5,387.6	5,385.2	5,385.2	5,382.4	-----	5,372.8
(#)	+1,750	+4,090	+4,620	+2,190	0	+760	-2,350	-2,780	0	-2,940	-4,750	-2,560

CAL YR 1970..... # -1,580

WTR YR 1971..... # -1,920

† Elevation, in feet, at end of month.

Change in contents, in acre-feet

a No gage-height record; contents interpolated.

SEVIER LAKE BASIN

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 downstream from outlet gate of Gunnison Reservoir, 400 ft upstream from diversion dam and head of Gunnison Canal, 1,000 ft upstream from Six Mile Creek, 1.2 miles northwest of Sterling, 5 miles southwest of Manti, 7 miles northeast of Gunnison, and 13 miles upstream from mouth.

DRAINAGE AREA.--672 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,360 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 49.5 cfs (35,860 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 253 cfs Jan. 28; minimum, no flow Oct. 1 to Jan. 15, Mar. 6-9, Sept. 21-30.

Period of record: Maximum daily discharge, 363 cfs Mar. 24, 1969; no flow at times most years when reservoir gates were closed.

REMARKS.--Records good except those for periods when water was flowing over spillway, which are fair. Flow regulated by Gunnison Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	204	46	15	61	42	1.4	80	71
2				0	211	4.5	20	50	42	5.8	85	71
3				0	220	3.6	22	41	42	12	74	70
4				0	220	3.0	22	37	42	15	74	70
5				0	211	2.5	22	60	42	23	74	70
6				0	206	0	22	67	46	29	74	70
7				0	199	0	22	67	39	35	74	70
8				0	189	0	29	67	34	35	74	70
9				0	170	0	56	68	33	38	73	70
10				0	150	60	64	68	31	40	73	68
11				0	53	134	64	68	26	44	73	67
12				0	68	142	67	64	26	44	73	66
13				0	89	142	66	51	26	44	73	66
14				0	92	110	50	38	21	46	74	66
15				0	94	78	50	29	9.8	47	73	66
16				.60	100	57	44	20	2.0	49	84	64
17				1.0	143	51	51	24	1.8	49	82	64
18				1.0	204	51	61	46	1.8	49	82	64
19				1.8	192	51	74	46	1.8	51	82	64
20				2.9	190	52	74	49	1.8	52	80	24
21				9.3	185	54	74	51	1.8	52	80	0
22				3.5	180	55	76	51	1.8	51	80	0
23				11	100	83	76	51	1.8	51	79	0
24				21	62	98	74	51	1.6	51	79	0
25				84	59	98	74	51	1.4	52	79	0
26				154	55	94	74	47	1.2	59	77	0
27				247	52	94	74	39	1.2	64	76	0
28				253	49	89	74	24	1.4	66	74	0
29				237	-----	76	73	21	1.6	66	73	0
30				218	-----	47	71	32	1.6	67	73	0
31		-----		204	-----	13	-----	34	-----	70	71	-----
TOTAL	0	0	0	1,449.10	3,947	1,788.6	1,635	1,473	526.1	1,358.2	2,372	1,311
MEAN	0	0	0	46.7	141	57.7	54.5	47.5	17.5	43.8	76.5	43.7
MAX	0	0	0	253	220	142	76	68	46	70	85	71
MIN	0	0	0	0	49	0	15	20	1.2	1.4	71	0
AC-FT	0	0	0	2,870	7,830	3,550	3,240	2,920	1,040	2,690	4,700	2,600
CAL YR 1970	TOTAL	20,146.50	MEAN	55.2	MAX	215	MIN	0	AC-FT	39,960		
WTR YR 1971	TOTAL	15,860.30	MEAN	43.5	MAX	253	MIN	0	AC-FT	31,460		

NOTE.--Water was flowing over spillway Jan. 16 to Mar. 29.

SEVIER LAKE BASIN

255

10216400 Twelvemile Creek near Mayfield, Utah

LOCATION.--Lat 39°06'02", long 111°38'44", in SW¼SW¼NW¼ sec.1, T.20 S., R.2 E., Sanpete County, on right bank 0.1 mile east of Manti-LaSal Forest boundary, 0.5 mile downstream from Clear Creek, and 3.5 miles east of Mayfield.

DRAINAGE AREA.--60 sq mi, approximately.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 30.9 cfs (22,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 171 cfs May 15 (gage height, 2.14 ft); maximum gage height, 2.85 ft Dec. 26 (backwater from ice); minimum, 7.2 cfs Mar. 14, 16, 18, 19.

Period of record: Maximum discharge, 1,350 cfs Aug. 10, 1965 (gage height, 4.05 ft); minimum recorded, 3.0 cfs Feb. 24, 1961.

REMARKS.--Records good except those for winter periods, which are fair. No diversion above station. Flow regulated by several small reservoirs at headwaters; combined capacity, about 930 acre-ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	13	11	12	8.7	15	81	96	76	29	21
2	16	15	14	11	12	8.7	14	99	94	74	29	20
3	16	14	14	11	12	8.6	15	108	93	71	29	25
4	16	14	16	10	12	8.6	16	97	92	68	28	22
5	16	15	14	9.0	12	8.6	19	78	93	62	28	21
6	17	14	17	9.0	13	8.6	24	81	96	60	28	20
7	18	15	18	9.0	13	8.5	27	83	105	59	32	27
8	17	15	14	9.0	12	8.5	28	84	108	58	31	24
9	17	14	13	9.0	12	8.5	38	81	104	57	27	21
10	20	15	13	9.0	11	8.6	48	84	102	53	27	20
11	16	14	12	9.0	11	8.5	56	99	108	51	27	20
12	17	14	12	9.0	9.5	10	66	108	100	48	26	19
13	17	15	12	9.5	9.5	9.4	78	100	99	47	25	19
14	16	16	12	10	9.9	8.9	73	115	103	46	24	18
15	16	25	11	11	9.5	7.9	75	138	109	45	25	20
16	16	18	11	13	8.8	8.5	83	150	115	43	25	20
17	16	16	11	14	9.1	8.1	77	130	119	42	26	20
18	16	14	11	16	9.5	11	58	102	116	42	25	20
19	16	16	11	17	9.1	12	42	95	109	44	24	20
20	16	20	11	16	9.7	9.7	41	100	108	44	23	24
21	16	13	11	14	9.0	9.9	40	105	105	37	24	21
22	17	14	11	14	9.0	11	38	101	103	36	27	19
23	16	14	11	13	8.8	11	38	92	102	36	24	19
24	16	14	11	13	8.8	13	39	95	100	35	23	19
25	15	14	11	13	8.8	12	37	108	97	34	24	19
26	16	16	11	12	8.8	17	33	115	92	33	24	18
27	15	14	11	12	8.8	18	34	122	89	32	24	18
28	17	14	11	12	8.7	16	36	131	86	31	30	19
29	19	14	11	12	-----	15	48	120	82	31	25	18
30	16	14	11	11	-----	20	65	107	77	30	23	19
31	16	-----	11	11	-----	19	-----	100	-----	30	22	-----
TOTAL	510	456	381	358.5	287.3	341.8	1,301	3,209	3,002	1,455	808	610
MEAN	16.5	15.2	12.3	11.6	10.3	11.0	43.4	104	100	46.9	26.1	20.3
MAX	20	25	18	17	13	20	83	150	119	76	32	27
MIN	15	13	11	9.0	8.7	7.9	14	78	77	30	22	18
AC-FT	1,010	904	756	711	570	678	2,580	6,370	5,950	2,890	1,600	1,210

CAL YR 1970 TOTAL 12,595.7 MEAN 34.5 MAX 183 MIN 8.0 AC-FT 24,980
WTR YR 1971 TOTAL 12,719.6 MEAN 34.8 MAX 150 MIN 7.9 AC-FT 25,230

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

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 downstream from San Pitch River and 3 miles west of Gunnison.

DRAINAGE AREA.--4,880 sq mi, 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 from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher.

AVERAGE DISCHARGE.--59 years, 221 cfs (160,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 534 cfs Feb. 7 (gage height, 3.61 ft); minimum, 29 cfs July 17.

Period of record: Maximum discharge, 2,620 cfs June 1, 1922 (gage height, 5.68 ft); minimum daily, 8 cfs July 13-17, Sept. 6, 1934.

REMARKS.--Records good except those for winter periods, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	340	310	277	474	311	281	161	222	69	69	122
2	235	333	294	278	479	289	248	193	214	57	78	109
3	227	325	297	273	488	270	216	214	215	47	93	125
4	227	318	286	256	464	276	228	243	213	42	110	137
5	221	314	293	260	480	284	202	211	198	40	109	143
6	221	310	291	260	497	276	173	186	208	40	106	156
7	225	298	294	260	525	277	136	192	191	40	92	157
8	231	305	300	260	505	282	129	203	225	49	91	157
9	231	297	302	260	491	276	119	207	208	57	92	152
10	237	296	301	260	452	305	117	211	226	54	88	149
11	244	295	286	260	367	384	139	214	233	53	96	145
12	250	291	276	260	326	421	160	230	279	53	106	150
13	254	301	270	260	324	448	168	228	244	53	113	162
14	256	334	269	260	357	449	164	241	243	47	100	169
15	261	307	278	265	357	444	140	270	242	47	89	167
16	263	301	282	275	344	396	170	309	240	44	89	152
17	310	300	296	295	352	345	193	301	232	40	76	163
18	328	299	294	325	417	324	173	239	252	38	79	189
19	304	294	277	360	424	318	163	219	249	61	87	195
20	302	290	268	410	427	313	200	222	222	90	89	193
21	292	294	272	375	418	311	217	227	179	61	91	174
22	271	296	286	358	414	325	237	250	142	56	96	165
23	280	297	290	348	413	360	226	255	110	54	97	145
24	286	295	278	352	387	399	207	229	96	54	100	142
25	294	295	267	348	346	418	210	217	83	60	95	145
26	292	321	258	380	333	397	181	232	79	75	95	146
27	307	349	263	455	325	472	166	258	97	100	96	143
28	314	324	271	505	315	427	152	271	117	107	126	131
29	329	323	271	493	-----	383	148	281	110	109	129	125
30	356	324	275	488	-----	380	147	238	83	100	123	127
31	359	-----	273	481	-----	330	-----	223	-----	79	125	-----
TOTAL	8,440	9,266	8,768	10,197	11,501	10,890	5,410	7,175	5,652	1,876	3,025	4,535
MEAN	272	309	283	329	411	351	180	231	188	60.5	97.6	151
MAX	359	349	310	505	525	472	281	309	279	109	129	195
MIN	221	290	258	256	315	270	117	161	79	38	69	109
AC-FT	16,740	18,380	17,390	20,230	22,810	21,600	10,730	14,230	11,210	3,720	6,000	9,000

CAL YR 1970 TOTAL 112,660 MEAN 309 MAX 760 MIN 73 AC-FT 223,500
WTR YR 1971 TOTAL 86,735 MEAN 238 MAX 525 MIN 38 AC-FT 172,000

SEVIER LAKE BASIN

257

10218500 Sevier Bridge Reservoir near Juab, Utah

LOCATION.--Lat 39°22'20", Long 112°01'57", in NW¼NW¼NW¼ sec.1, T.17 S., R.2 W., Juab County, at Sevier Bridge Dam on Sevier River, 13 miles southwest of Juab.

DRAINAGE AREA.--5,120 sq mi, approximately.

PERIOD OF RECORD.--January 1914 to current year.

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, read once daily. Datum of gage is 4,937.51 ft above mean sea level (levels by Coast and Geodetic Survey).

EXTREMES.--Current year: Maximum contents observed, 234,000 acre-ft Mar. 30, Apr. 2 (gage height, 79.8 ft); minimum contents observed, 93,150 acre-ft Sept. 7-9 (gage height, 60.1 ft).

Period of record: Maximum contents, 251,000 acre-ft Apr. 19, 20, 1922 (gage height, 80.0 ft), from former capacity table; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between gage heights 6.0 (approximate bottom of outlet tunnel) and 80.0 ft (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	75	186,500
65	114,900	80	236,100
70	146,200		

CONTENTS, IN ACRE-FEET, AT 1200, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126,300	141,300	160,600	177,800	197,600	219,200	232,900	229,700	197,600	157,500	117,700	94,660
2	126,300	142,000	161,300	177,800	198,500	219,200	234,000	228,600	196,600	155,100	116,600	94,280
3	126,900	142,700	161,300	178,700	199,500	220,300	232,900	227,600	195,700	153,600	116,000	93,900
4	127,600	143,400	162,100	179,500	200,400	220,300	232,900	226,500	195,700	151,400	114,900	93,530
5	127,600	144,100	162,100	179,500	201,400	221,300	232,900	225,400	194,700	149,200	114,400	93,530
6	127,600	144,800	162,900	179,500	202,300	221,300	232,900	224,400	193,800	147,700	113,400	93,530
7	128,200	144,800	163,700	180,400	203,300	222,300	232,900	223,400	192,900	146,200	112,400	93,150
8	128,800	145,500	163,700	180,400	204,200	222,300	232,900	222,300	192,000	144,800	111,300	93,150
9	128,800	146,200	164,600	181,300	205,200	223,400	232,900	221,300	191,100	142,000	110,800	93,150
10	129,400	147,000	165,400	182,200	206,200	223,400	232,900	220,300	191,100	141,300	109,800	93,530
11	130,100	147,700	166,200	182,200	207,100	224,400	231,900	220,300	190,200	139,900	108,900	93,530
12	130,700	147,700	166,200	183,000	207,100	224,400	230,800	219,200	189,300	138,500	108,400	93,530
13	130,700	148,400	167,000	183,900	208,100	225,400	230,800	218,200	189,300	137,200	107,900	93,530
14	130,700	149,200	167,000	184,800	209,100	226,500	230,800	217,200	188,400	135,900	107,000	93,530
15	131,300	149,900	167,800	184,800	209,100	226,500	230,800	217,200	187,500	134,600	106,000	93,530
16	131,500	150,700	167,800	185,700	210,100	227,600	229,700	215,100	186,500	133,900	105,500	93,900
17	132,600	151,400	168,600	186,500	210,100	228,600	229,700	214,100	185,700	132,600	104,600	93,900
18	133,200	151,400	169,400	186,500	211,100	228,600	228,600	213,100	183,900	131,300	104,200	94,280
19	133,200	152,100	170,200	187,500	212,100	228,600	228,600	212,100	182,200	130,700	103,700	94,660
20	133,900	152,900	171,100	188,400	213,100	229,700	228,600	210,100	180,400	129,400	102,400	94,660
21	134,600	152,900	171,100	189,300	214,100	229,700	229,700	209,100	178,700	128,800	101,500	95,040
22	134,600	153,600	171,900	189,300	215,100	229,700	229,700	207,100	176,900	128,200	101,500	95,420
23	135,900	153,600	172,700	190,200	215,100	230,800	229,700	207,100	175,300	126,900	99,800	95,790
24	136,500	155,100	173,600	191,100	216,100	230,800	230,800	205,200	172,700	125,700	98,600	95,790
25	136,500	155,900	173,600	192,000	217,200	231,900	230,800	204,200	170,200	124,500	97,370	96,170
26	137,200	156,700	174,400	192,000	217,200	231,900	231,900	203,300	168,600	123,400	96,960	96,170
27	137,900	157,500	174,400	193,800	218,200	231,900	231,900	201,400	165,400	122,200	96,550	96,550
28	138,500	158,200	175,300	193,800	218,200	231,900	231,900	200,400	163,700	121,000	96,170	96,960
29	139,200	159,000	175,300	194,700	-----	232,900	231,900	200,400	161,300	120,400	95,790	96,960
30	139,900	159,800	176,100	195,700	-----	234,000	230,800	199,500	159,000	119,300	95,420	97,370
31	140,600	-----	176,900	196,600	-----	232,900	-----	198,500	-----	118,200	95,040	-----
MAX	140,600	159,800	176,900	196,600	218,200	234,000	234,000	229,700	197,600	157,500	117,700	97,370
MIN	126,300	141,300	160,600	177,800	197,600	219,200	228,600	198,500	159,000	118,200	95,040	93,150
(†)	+14,900	+19,200	+17,100	+19,700	+21,600	+14,700	-2,100	-32,300	-39,500	-40,800	-23,160	+2,330
(#)	69.2	71.8	73.9	76.1	78.3	79.7	79.5	76.3	71.7	65.6	60.6	61.2

CAL YR 1970..... * +9,100

WTR YR 1971..... * -28,330

† Change in contents, in acre-feet

Gage height, in feet, at end of month.

SEVIER LAKE BASIN

10219000 Sevier River near Juab, Utah

LOCATION.--Lat 39°22'29", long 112°02'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.35, T.16 S., R.2 W., Juab County, on right bank 0.5 mile downstream from Sevier Bridge Dam and 12 miles southwest of Juab.

DRAINAGE AREA.--5,120 sq mi, 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 (by barometer). Prior to Apr. 16, 1914, staff gage 500 ft 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 upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

AVERAGE DISCHARGE.--60 years, 224 cfs (162,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,140 cfs June 19 (gage height, 4.47 ft); minimum, 2.9 cfs on Sept. 28.

Period of record: Maximum discharge, 2,140 cfs June 2, 1922 (gage height, 8.50 ft); 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 preceding page).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	9.3	7.2	8.2	12	13	231	568	534	1,100	447	264
2	5.9	9.4	7.2	8.4	12	13	230	566	535	1,100	401	263
3	5.7	9.5	7.0	8.6	12	13	225	566	535	1,100	403	227
4	6.1	10	7.0	8.6	12	13	200	686	707	882	401	194
5	6.4	9.3	6.6	8.8	13	13	184	773	686	745	581	167
6	7.0	9.7	6.6	8.8	13	13	185	775	524	741	655	147
7	6.8	10	6.6	9.0	13	12	185	670	523	895	635	148
8	6.6	10	6.6	9.0	13	13	183	594	520	825	494	148
9	7.2	11	6.6	9.0	13	15	185	591	519	736	401	148
10	7.4	9.9	6.6	9.0	14	15	183	591	519	736	402	148
11	95	9.8	6.6	9.0	14	14	183	590	519	736	405	149
12	178	9.3	6.6	9.2	15	13	184	587	519	637	405	152
13	173	9.0	6.6	9.2	15	12	183	587	519	575	408	153
14	82	8.8	6.6	9.4	15	13	183	585	519	574	407	78
15	11	9.2	6.6	9.6	15	12	303	616	691	573	408	27
16	11	9.3	6.6	9.6	15	11	426	852	793	572	409	27
17	11	9.3	6.5	9.8	15	82	446	854	792	573	406	29
18	11	9.5	6.6	9.8	16	121	444	853	791	572	404	30
19	12	8.8	6.9	10	15	121	278	852	1,010	572	512	31
20	11	9.1	7.2	10	15	119	29	850	1,140	570	600	30
21	12	9.0	7.7	10	15	119	80	845	1,140	569	594	30
22	12	9.1	7.8	10	15	119	63	846	1,140	569	592	32
23	9.7	8.2	8.0	11	14	118	28	846	1,130	569	592	16
24	9.3	8.7	8.0	11	14	117	27	844	1,130	564	527	4.1
25	9.3	8.5	8.0	11	14	113	27	838	1,130	563	484	3.7
26	9.5	8.7	8.0	11	14	122	27	676	1,120	563	487	3.4
27	9.3	8.7	8.0	11	13	128	27	544	1,120	561	344	3.4
28	9.0	8.5	8.0	12	14	137	27	542	1,110	558	261	3.4
29	9.3	8.4	8.0	12	-----	183	370	539	1,110	554	266	3.5
30	9.3	7.3	8.0	12	-----	221	571	538	1,110	554	265	3.7
31	9.6	-----	8.0	12	-----	235	-----	536	-----	555	264	-----
TOTAL	768.6	275.3	222.3	306.0	390	2,263	5,897	21,200	24,135	20,993	13,860	2,663.2
MEAN	24.8	9.18	7.17	9.87	13.9	73.0	197	684	805	677	447	88.8
MAX	178	11	8.0	12	16	235	571	854	1,140	1,100	655	264
MIN	5.7	7.3	6.5	8.2	12	11	27	536	519	554	261	3.4
AC-FT	1,520	546	441	607	774	4,490	11,700	42,050	47,870	41,640	27,490	5,280
CAL YR 1970	TOTAL 97,827.5		MEAN 268	MAX 1,040	MIN 5.2	AC-FT 194,000						
WTR YR 1971	TOTAL 92,973.4		MEAN 255	MAX 1,140	MIN 3.4	AC-FT 184,400						

SEVIER LAKE BASIN

259

10219200 Chicken Creek near Levan, Utah

LOCATION.--Lat 39°33'03", long 111°49'42", in NW¼SW¼ sec.33, T.14 S., R.1 E., Juab County, on right bank 120 ft downstream from county road bridge, 250 ft upstream from diversion structure, 0.4 mile upstream from mouth of canyon, and 1.5 miles east of Levan.

DRAINAGE AREA.--27.9 sq mi.

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

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

AVERAGE DISCHARGE.--9 years, 6.02 cfs (4,360 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 88 cfs Aug. 6 (gage height, 4.00 ft); minimum, 0.69 cfs Dec. 13, 14.

Period of record: Maximum discharge, 268 cfs Aug. 1, 1968 (gage height, 7.55 ft), from rating curve extended above 58 cfs on basis of logarithmic plotting; no flow Feb. 11, 14, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.9	2.1	1.0	2.8	2.7	9.4	23	15	7.9	3.8	2.2
2	2.4	2.8	2.1	1.0	3.6	2.7	9.0	25	15	7.7	3.6	2.2
3	2.4	2.8	2.0	1.0	3.6	2.6	9.3	27	14	7.5	3.6	2.8
4	2.4	2.8	1.9	1.0	3.8	2.6	9.5	30	14	7.3	3.8	2.5
5	2.5	2.7	1.9	1.0	3.6	2.6	10	28	14	7.1	3.5	2.5
6	2.6	2.6	1.9	1.0	3.4	2.6	12	27	13	6.9	16	2.6
7	3.0	3.4	1.9	1.0	3.3	2.6	13	28	13	6.7	10	3.2
8	2.8	2.9	1.8	1.4	3.2	2.6	14	27	12	6.5	4.5	2.8
9	2.9	2.8	2.0	1.5	3.2	2.6	16	27	13	6.4	4.1	2.7
10	3.0	3.0	1.9	1.7	3.1	2.6	18	26	12	6.2	4.5	2.5
11	3.0	2.6	2.0	1.7	3.1	2.7	18	25	13	6.0	3.6	2.4
12	2.9	2.9	1.8	1.7	3.1	2.8	18	26	12	5.9	3.1	2.3
13	2.9	2.7	1.5	1.7	3.1	2.9	17	25	12	5.8	3.1	2.3
14	2.8	2.5	.75	1.7	3.2	2.8	17	24	11	5.7	3.0	2.3
15	2.8	2.3	.79	1.7	3.3	2.7	17	24	11	5.6	3.3	2.2
16	2.8	2.3	1.0	1.7	3.2	2.8	18	25	11	5.6	3.3	2.2
17	2.9	2.2	1.4	1.8	3.3	2.9	18	24	10	5.5	3.5	2.3
18	2.9	2.3	1.4	2.0	3.3	2.8	18	23	10	5.4	3.5	2.4
19	2.9	2.1	1.2	2.0	3.3	2.9	17	22	9.7	6.0	3.4	2.6
20	3.1	2.1	1.1	2.0	3.2	2.8	18	21	9.6	5.5	3.4	2.5
21	3.2	2.1	1.1	2.0	3.1	2.9	17	21	9.3	5.3	3.8	2.6
22	3.8	2.0	1.1	2.0	3.0	3.0	17	20	9.0	5.2	4.0	2.8
23	3.4	2.0	1.1	2.0	3.0	3.5	20	19	8.8	4.9	3.8	2.9
24	4.4	2.0	1.1	2.0	2.9	5.2	21	19	8.7	4.6	3.9	2.9
25	3.3	2.1	1.1	2.4	2.9	5.3	22	19	8.5	4.4	4.0	2.7
26	3.3	2.5	1.0	2.4	2.7	8.5	19	18	8.3	4.4	4.3	2.6
27	3.2	2.8	1.0	2.4	2.7	17	20	17	8.2	4.2	4.7	2.6
28	3.1	2.3	1.0	2.5	2.7	12	20	16	7.9	4.1	6.1	2.6
29	3.0	2.2	1.0	2.8	-----	12	22	16	7.9	4.0	3.7	2.8
30	3.0	2.2	1.0	2.8	-----	14	23	16	8.4	3.9	2.3	7.7
31	2.9	-----	1.0	2.8	-----	14	-----	16	-----	3.8	2.4	-----
TOTAL	92.0	74.9	43.94	55.7	88.7	151.7	497.2	704	329.3	176.0	133.6	81.7
MEAN	2.97	2.50	1.42	1.80	3.17	4.89	16.6	22.7	11.0	5.68	4.31	2.72
MAX	4.4	3.4	2.1	2.8	3.8	17	23	30	15	7.9	16	7.7
MIN	2.4	2.0	.75	1.0	2.7	2.6	9.0	16	7.9	3.8	2.3	2.2
AC-FT	182	149	87	110	176	301	986	1,400	653	349	265	162
CAL YR 1970	TOTAL 1,857.64	MEAN 5.09	MAX 35	MIN .75	AC-FT 3,680							
WTR YR 1971	TOTAL 2,428.74	MEAN 6.65	MAX 30	MIN .75	AC-FT 4,820							

PEAK DISCHARGE (BASE, 50 CFS).--Aug. 6 (2100) 88 cfs (4.00 ft).

SEVIER LAKE BASIN

10224000 Sevier River near Lynndyl, Utah

LOCATION.--Lat 39°28'55", long 112°23'35", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.15 S., R.5 W., Millard County, on right bank 1.5 miles downstream from highway bridge and 3.5 miles southwest of Lynndyl.

DRAINAGE AREA.--6,270 sq mi, 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 (by barometer).

AVERAGE DISCHARGE.--34 years, 186 cfs (134,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 845 cfs July 9 (gage height, 6.73 ft); minimum, 14 cfs Mar. 3.

Period of record: Maximum discharge, 2,980 cfs Feb. 10, 1962 (gage height, 11.73 ft); minimum observed, 3.9 cfs Jan. 22, 1963 (discharge measurement).

REMARKS.--Records good. Flow regulated by Sevier Bridge Reservoir about 35 miles upstream (see station 10218500). Several diversions for irrigation between reservoir and station. Records of chemical analysis and water temperatures for the water year 1971 will be published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	54	82	63	67	18	79	364	364	774	329	138
2	44	52	64	63	46	18	87	363	345	774	304	123
3	41	55	62	60	49	18	86	359	343	777	240	108
4	38	55	60	58	40	18	161	347	345	742	212	101
5	37	56	60	56	31	18	181	406	403	713	217	73
6	37	56	61	55	28	18	162	533	556	674	266	63
7	36	62	60	57	27	18	162	544	372	663	449	56
8	37	68	60	60	26	18	161	505	355	697	573	47
9	38	64	60	62	24	19	155	413	343	803	540	42
10	40	61	59	64	23	18	149	405	332	663	400	41
11	42	59	59	65	22	19	145	396	305	655	377	41
12	45	58	59	65	21	18	145	389	309	534	272	48
13	70	59	59	65	21	18	147	377	309	453	262	42
14	140	59	59	65	21	18	153	375	309	376	250	36
15	148	58	59	65	21	17	172	367	320	367	244	32
16	113	58	60	65	21	16	183	349	376	362	250	29
17	63	57	61	65	21	16	326	530	492	362	244	24
18	53	57	60	65	24	15	390	589	490	369	238	28
19	50	58	59	65	23	38	410	640	469	381	258	31
20	48	58	59	65	22	88	426	645	542	391	276	29
21	48	58	59	66	20	111	239	658	694	376	382	30
22	48	58	59	67	19	102	122	646	762	375	385	30
23	47	58	59	68	19	101	137	613	783	374	391	30
24	44	58	58	68	19	103	131	610	783	377	389	40
25	45	58	56	70	19	104	101	610	792	378	370	52
26	45	60	58	72	18	103	99	610	786	379	317	41
27	45	61	59	74	18	103	96	540	789	372	310	38
28	50	63	60	76	18	103	89	381	797	364	290	38
29	54	64	61	74	-----	97	85	360	794	347	211	39
30	56	64	62	73	-----	81	128	369	774	341	177	40
31	57	-----	63	73	-----	71	-----	369	-----	333	147	-----
TOTAL	1,695	1,766	1,876	2,029	728	1,523	5,107	14,662	15,433	15,546	9,570	1,510
MEAN	54.7	58.9	60.5	65.5	26.0	49.1	170	473	514	501	309	50.3
MAX	148	68	82	76	67	111	426	658	797	803	573	138
MIN	36	52	56	55	18	15	79	347	305	333	147	24
AC-FT	3,360	3,500	3,720	4,020	1,440	3,020	10,130	29,080	30,610	30,840	18,980	3,000

CAL YR 1970 TOTAL 74,256 MEAN 203 MAX 754 MIN 11 AC-FT 147,300
WTR YR 1971 TOTAL 71,445 MEAN 196 MAX 803 MIN 15 AC-FT 141,700

SEVIER LAKE BASIN

261

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 upstream from a 12-inch pipeline diversion at Walker's Fork and 6.5 miles east of Oak City.

DRAINAGE AREA.--5.58 sq mi.

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

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

AVERAGE DISCHARGE.--7 years, 2.66 cfs (1,930 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10 cfs May 15 (gage height, 1.37 ft); maximum gage height, 1.80 ft Feb. 8 (backwater from ice); minimum discharge, 0.35 cfs Sept. 15-16.
Period of record: Maximum discharge, 53 cfs Dec. 6, 1966 (gage height, 1.91 ft); minimum, 0.03 cfs 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.58	.80	.90	1.2	1.3	7.9	8.2	5.0	1.3	.49	.44
2	.42	.58	.81	.90	1.7	1.3	7.5	8.6	4.7	1.2	.49	.42
3	.42	.59	.85	.90	1.7	1.3	7.2	9.1	4.6	1.2	.49	.53
4	.42	.58	.88	.90	1.7	1.3	7.0	9.6	4.3	1.1	.48	.46
5	.42	.58	.87	.90	1.6	1.3	6.7	9.7	4.3	1.1	.49	.45
6	.42	.58	.87	.90	1.5	1.3	6.4	9.7	4.2	1.0	.53	.44
7	.47	.78	.87	.90	1.5	1.4	6.5	9.7	4.0	1.0	.55	.51
8	.58	.70	.89	.90	1.5	1.5	6.1	9.5	3.8	1.1	.51	.45
9	.58	.68	.90	.90	1.5	1.5	6.3	9.2	3.9	1.1	.51	.45
10	.58	.72	.90	.90	1.5	1.6	6.6	9.1	3.7	1.1	.49	.43
11	.58	.67	.90	.90	1.5	1.7	7.0	8.8	3.7	1.0	.48	.42
12	.58	.70	.90	.90	1.5	1.9	7.3	8.8	3.5	.96	.46	.42
13	.58	.72	.90	.90	1.5	1.9	7.5	8.8	3.4	.70	.46	.41
14	.58	.70	.90	.90	1.5	1.9	7.9	8.9	3.0	.67	.45	.41
15	.58	.68	.90	.90	1.5	1.9	8.0	9.7	2.7	.66	.46	.38
16	.58	.64	.90	.90	1.5	1.9	8.3	10	2.5	.66	.47	.38
17	.58	.62	.90	.90	1.5	1.9	8.5	10	2.3	.67	.46	.40
18	.58	.64	.90	.90	1.5	1.9	8.6	10	2.2	.73	.45	.41
19	.58	.64	.90	.90	1.5	1.9	8.4	9.5	2.3	.77	.46	.41
20	.58	.64	.90	.90	1.5	1.9	8.7	9.0	2.1	.73	.45	.41
21	.58	.65	.90	.90	1.4	1.9	8.6	8.3	2.0	.71	.45	.42
22	.59	.65	.90	.90	1.3	2.0	8.4	7.6	1.9	.70	.45	.43
23	.58	.65	.90	.90	1.3	2.2	8.4	7.2	1.7	.62	.45	.42
24	.61	.68	.90	.90	1.3	2.5	8.9	6.7	1.6	.59	.44	.42
25	.58	.72	.90	.90	1.3	2.8	8.9	6.0	1.5	.58	.44	.42
26	.62	.86	.90	.90	1.3	4.4	8.4	5.3	1.4	.55	.44	.42
27	.62	.89	.90	.92	1.3	7.3	8.3	5.1	1.4	.55	.45	.42
28	.62	.80	.90	.94	1.3	7.3	8.4	5.1	1.5	.53	.46	.42
29	.62	.83	.90	.97	-----	7.4	8.4	5.1	1.5	.52	1.1	.42
30	.60	.83	.90	1.0	-----	7.7	8.3	5.4	1.5	.51	.52	.45
31	.61	-----	.90	1.1	-----	8.1	-----	5.3	-----	.50	.47	-----
TOTAL	17.16	20.58	27.54	28.33	40.9	86.2	233.4	253.0	86.2	25.11	15.30	12.87
MEAN	.55	.69	.89	.91	1.46	2.78	7.78	8.16	2.87	.81	.49	.43
MAX	.62	.89	.90	1.1	1.7	8.1	8.9	10	5.0	1.3	1.1	.53
MIN	.42	.58	.80	.90	1.2	1.3	6.1	5.1	1.4	.50	.44	.38
AC-FT	34	41	55	56	81	171	463	502	171	50	30	26

CAL YR 1970 TOTAL 763.47 MEAN 2.09 MAX 12 MIN .32 AC-FT 1,510
WTR YR 1971 TOTAL 846.59 MEAN 2.32 MAX 10 MIN .38 AC-FT 1,680

PEAK DISCHARGE (BASE, 10 CFS).--May 15 (2100) 10 cfs (1.37 ft).

NOTE.--No gage-height record Dec. 25 to Feb. 2.

PAVANT VALLEY

10232500 Chalk Creek near Fillmore, Utah

LOCATION.--Lat 38°57'49", long 112°18'27", in NE¼NE¼NW¼, sec.28, T.21 S., R.4 W., Millard County, on left bank 1 mile east of Fillmore and 2.2 miles downstream from South Fork.

DRAINAGE AREA.--58.7 sq mi.

PERIOD OF RECORD.--May to July 1914, March 1944 to September 1970 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (by barometer). May to July 1914, nonrecording gage at site 1.2 miles upstream at different datum.

AVERAGE DISCHARGE.--27 years, 30.3 cfs (21,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 176 cfs May 17; minimum daily, 9.0 cfs Jan. 3.

Period of record: Maximum discharge, 1,850 cfs July 31, 1961, from computation of flow over spillway; minimum daily, 2.7 cfs Dec. 12, 1963.

REMARKS.--Records good. Records include flow of Fillmore Canal which diverts on left bank at flood-control dam 400 ft upstream. During low-water periods, flow is diverted 2 miles upstream and carried in a lined ditch to head of Fillmore Canal. One small diversion for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	14	10	16	16	79	95	99	31	15	13
2	13	12	13	10	16	16	72	108	93	30	15	12
3	13	12	12	9.0	16	16	67	123	93	29	15	14
4	13	12	12	12	16	16	63	131	92	28	15	13
5	13	12	12	12	15	16	63	130	92	27	15	12
6	13	12	12	12	16	16	65	122	88	27	17	11
7	15	13	12	12	15	17	70	115	89	26	17	14
8	14	15	12	12	15	18	73	111	90	26	16	13
9	14	14	13	12	15	18	78	107	89	25	15	12
10	14	15	12	12	15	20	84	102	88	24	15	12
11	14	14	12	12	15	24	92	104	88	23	14	11
12	13	14	13	13	15	29	98	111	78	23	13	11
13	13	14	13	12	14	37	105	118	71	22	13	11
14	13	14	13	12	17	35	112	132	68	21	13	11
15	13	15	13	12	17	34	110	148	70	21	13	11
16	13	15	13	12	17	32	114	167	70	21	13	11
17	12	15	14	13	16	33	118	172	66	20	13	12
18	12	15	13	14	16	32	114	159	63	20	13	12
19	12	14	13	16	16	30	108	140	59	20	13	12
20	12	14	13	17	16	30	97	129	65	20	12	12
21	12	14	13	19	16	33	91	126	51	20	13	11
22	14	13	13	19	16	37	85	130	49	20	13	12
23	14	12	12	19	17	43	81	127	46	19	12	11
24	14	12	12	19	18	48	78	114	43	19	13	11
25	13	12	11	18	18	53	76	107	42	19	14	11
26	14	12	10	18	17	67	70	109	40	18	13	11
27	12	12	11	18	17	89	67	122	39	17	15	11
28	12	12	10	17	17	86	67	132	36	16	17	11
29	15	12	10	16	-----	80	72	130	35	16	16	11
30	15	12	10	16	-----	83	84	120	32	15	15	12
31	14	-----	10	16	-----	84	-----	110	-----	15	14	-----
TOTAL	411	396	376	441.0	450	1,188	2,553	3,851	2,024	678	440	352
MEAN	13.3	13.2	12.1	14.2	16.1	38.3	85.1	124	67.5	21.9	14.2	11.7
MAX	15	15	14	19	18	89	118	172	99	31	17	14
MIN	12	12	10	9.0	14	16	63	95	32	15	12	11
AC-FT	815	785	746	875	893	2,360	5,060	7,640	4,010	1,340	873	698
CAL YR 1970	TOTAL 13,391.9		MEAN 36.7		MAX 264	MIN 6.0	AC-FT 26,560					
WTR YR 1971	TOTAL 13,160.0		MEAN 36.1		MAX 172	MIN 9.0	AC-FT 26,100					

10233000 Meadow Creek near Meadow, Utah

LOCATION.--Lat 38°53'29", long 112°19'36", in SE¼SE¼SW¼ sec.17, T.22 S., R.4 W., Millard County, 0.6 mile upstream from Fishlake National Forest boundary and 4.5 miles east of Meadow.

DRAINAGE AREA.--11.6 sq mi.

PERIOD OF RECORD.--May to July 1914, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,800 ft (from topographic map). Nonrecording gage May 7 to July 16, 1914, at site about 0.5 mile upstream at different datum.

AVERAGE DISCHARGE.--6 years, 6.52 cfs (4,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 34 cfs May 16 (gage height, 1.23 ft); minimum, 1.4 cfs Oct. 27, Sept. 13-16, 24-26.
Period of record: Maximum discharge observed, 113 cfs May 12, 1914 (gage height, 2.94 ft, site and datum then in use); minimum, 0.33 cfs Dec. 20, 1967, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.5	3.3	3.3	5.7	2.6	18	18	17	9.9	3.4	1.9
2	2.7	2.5	3.5	2.7	6.3	2.6	16	23	17	9.5	3.4	1.9
3	2.7	2.4	3.5	2.2	5.4	2.7	14	25	17	9.1	3.4	2.4
4	2.8	2.5	3.6	2.1	3.5	3.0	14	25	17	8.8	3.2	2.0
5	2.7	2.5	3.3	2.1	6.2	3.5	14	25	17	8.9	3.4	1.9
6	2.7	2.5	3.4	2.0	4.4	3.3	15	23	17	8.7	3.2	1.8
7	2.7	2.7	3.0	2.1	3.7	3.3	17	21	17	8.4	3.4	2.3
8	2.4	2.4	3.0	2.3	3.8	3.0	17	21	18	8.0	3.0	1.9
9	2.7	2.4	3.4	2.6	3.8	3.2	18	19	18	7.7	3.0	1.8
10	2.8	2.6	3.4	2.6	3.9	3.2	21	18	18	7.7	2.8	1.7
11	2.6	2.7	3.3	2.5	4.0	3.7	23	19	18	7.4	2.8	1.7
12	2.6	3.0	3.2	3.0	3.8	5.0	24	21	17	7.1	2.7	1.6
13	2.3	2.8	3.2	2.8	3.9	7.2	25	22	17	6.8	2.7	1.6
14	2.3	2.6	3.5	2.8	4.0	6.8	27	24	16	6.5	2.7	1.6
15	2.3	2.6	3.7	2.8	4.2	6.5	24	28	17	6.6	2.5	1.6
16	2.2	2.7	3.5	2.8	4.8	6.8	25	33	17	6.6	2.5	1.5
17	2.3	2.8	3.6	3.0	4.8	6.5	26	33	17	6.2	2.5	1.6
18	2.1	2.8	4.0	3.3	5.0	6.5	23	30	17	5.9	2.4	1.6
19	2.1	2.8	4.0	3.8	5.0	6.5	21	26	16	6.2	2.4	1.7
20	2.1	2.8	4.2	4.2	3.4	6.5	18	24	15	6.2	2.2	1.6
21	2.2	3.0	3.6	4.7	2.1	6.8	15	23	14	5.9	2.2	1.6
22	2.3	2.8	3.7	5.5	2.3	8.3	14	24	13	5.6	2.2	1.6
23	2.2	2.7	3.6	5.2	2.5	9.6	13	23	13	5.2	2.1	1.6
24	2.4	2.7	3.5	5.5	2.5	9.2	12	20	12	5.0	3.0	1.5
25	2.2	2.7	3.5	6.0	2.5	9.6	11	19	12	4.6	2.1	1.5
26	2.0	2.8	3.5	6.1	2.5	13	9.8	19	11	4.3	2.4	1.5
27	2.2	2.6	3.6	5.8	2.2	21	9.1	25	11	4.3	2.6	1.6
28	2.3	2.4	3.4	5.9	2.7	21	9.4	26	11	4.0	2.6	1.6
29	2.5	2.6	3.5	6.1	-----	21	11	24	10	4.0	2.3	1.6
30	2.6	3.5	3.4	5.4	-----	21	14	21	10	3.7	2.2	1.7
31	2.7	-----	3.4	5.5	-----	21	-----	19	-----	3.7	2.0	-----
TOTAL	75.6	80.4	108.3	116.7	108.9	253.9	518.3	721	457	202.5	83.3	51.5
MEAN	2.44	2.68	3.49	3.76	3.89	8.19	17.3	23.3	15.2	6.53	2.69	1.72
MAX	2.9	3.5	4.2	6.1	6.3	21	27	33	18	9.9	3.4	2.4
MIN	2.0	2.4	3.0	2.0	2.1	2.6	9.1	18	10	3.7	2.0	1.5
AC-FT	150	159	215	231	216	504	1,030	1,430	906	402	165	102

CAL YR 1970 TOTAL 3,008.8 MEAN 8.24 MAX 65 MIN 2.0 AC-FT 5,970
WTR YR 1971 TOTAL 2,777.4 MEAN 7.61 MAX 33 MIN 1.5 AC-FT 5,510

PEAK DISCHARGE (BASE, 12 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-30	1900	1.01	25	5-16	0800	1.23	34
4-14	0600	1.08	27	5-28	0100	1.09	26
5-04	0300	1.09	26				

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 upstream from boundary of Fishlake National Forest, one mile upstream from flood-control reservoir and 2.7 miles southeast of Kanosh.

DRAINAGE AREA.--87.0 sq mi.

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 (from topographic map). May to July 1914, nonrecording gage at site 2 miles above Kanosh at different datum; July 1959 to July 1965, crest-stage gage at site 50 ft downstream at 10.26 ft lower datum.

AVERAGE DISCHARGE.--6 years, 13.4 cfs (9,710 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 338 cfs occurred during period Mar. 25 to Apr. 5 (gage height, 2.76 ft, from outside high-water mark); minimum recorded, 4.6 cfs Jan. 6.

Period of record: Maximum discharge, 338 cfs, occurred during period Mar. 25 to Apr. 5, 1971 (gage height, 2.76 ft, from outside high-water mark), from rating curve extended above 47 cfs on basis of slope-area determination at 5.48 ft; minimum recorded, 2.5 cfs Dec. 20, 1967.

A stage of 5.48 ft, from high-water mark, occurred July 18, 1965 (discharge, 1,350 cfs, by slope-area measurement of peak flow).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.3	6.8	7.1	6.9	7.7	6.9	50	40	17	9.1	9.2
2	5.7	6.2	7.0	6.6	7.3	8.0	6.4	56	39	17	9.0	8.7
3	5.8	6.2	7.1	6.2	6.5	8.4	60	65	39	16	9.0	10
4	5.8	6.2	7.1	5.8	8.1	8.8	55	70	39	16	9.1	9.3
5	5.8	6.1	7.1	5.7	7.0	8.8	53	64	39	15	10	8.9
6	5.8	6.2	6.9	6.0	6.6	8.8	51	60	38	15	13	8.5
7	5.9	6.4	7.0	6.6	6.5	8.9	53	50	36	14	14	10
8	6.0	6.3	7.2	8.0	6.5	9.0	54	50	36	14	13	9.3
9	6.2	6.2	7.6	7.5	6.6	9.2	56	49	36	14	12	8.7
10	6.3	6.2	7.1	7.1	7.0	11	61	47	34	13	11	8.2
11	6.3	6.5	6.4	7.1	7.1	13	62	50	35	13	10	7.9
12	6.2	6.6	6.6	7.1	7.0	17	62	54	34	12	10	7.5
13	6.0	6.6	6.6	7.0	7.2	24	62	56	32	12	9.8	7.2
14	6.0	6.5	7.0	7.0	6.9	19	63	61	31	12	9.7	7.0
15	6.0	6.5	7.5	7.0	6.8	19	59	70	29	12	9.7	7.0
16	6.0	6.5	7.7	7.1	6.6	19	56	77	28	12	9.8	7.1
17	6.0	6.5	8.1	7.3	7.2	20	58	73	27	12	9.9	7.4
18	6.2	6.4	7.9	7.3	6.9	19	54	65	26	11	9.9	7.6
19	6.6	6.5	7.7	7.7	6.6	18	51	56	25	11	9.4	7.4
20	6.8	6.8	7.6	8.1	6.6	18	47	50	24	11	9.7	7.2
21	6.8	6.9	8.0	8.0	6.3	20	42	49	22	11	9.8	7.2
22	7.2	7.0	7.9	7.3	8.3	25	41	53	22	11	9.6	7.3
23	6.6	7.0	7.5	6.8	6.9	35	42	51	21	11	9.5	7.0
24	6.3	7.0	7.1	6.8	7.9	43	42	46	20	11	9.2	6.8
25	6.1	6.9	7.0	6.9	7.1	50	40	43	19	11	9.2	6.6
26	5.6	8.2	7.0	6.9	6.9	60	38	45	19	10	9.2	6.5
27	5.8	7.2	7.3	7.0	7.2	73	35	48	19	9.8	9.7	6.4
28	6.4	6.9	7.5	6.9	7.5	83	35	49	18	9.7	13	6.5
29	6.4	7.0	7.3	6.7	-----	78	40	49	18	9.6	11	6.4
30	6.3	7.3	7.0	6.8	-----	75	42	44	17	9.3	11	6.5
31	6.1	-----	7.1	6.8	-----	72	-----	42	-----	9.3	9.8	-----
TOTAL	190.7	199.1	224.7	216.2	196.0	888.6	1,547	1,692	862	381.7	318.1	231.3
MEAN	6.15	6.44	7.25	6.97	7.00	28.7	51.6	54.6	28.7	12.3	10.3	7.71
MAX	7.2	8.2	8.1	8.1	8.3	83	69	77	40	17	14	10
MIN	5.6	6.1	6.4	5.7	6.3	7.7	35	42	17	9.3	9.0	6.4
AC-FT	378	395	446	429	389	1,760	3,070	3,360	1,710	757	631	459

CAL YR 1970 TOTAL 5,872.4 MEAN 16.1 MAX 105 MIN 4.8 AC-FT 11,650
WTR YR 1971 TOTAL 6,947.4 MEAN 19.0 MAX 83 MIN 5.6 AC-FT 13,780

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-12	2200	1.00	31.2	5-04	0100	1.51	76
1/		2.76	2/338	5-16	0900	1.53	82

1/ Occurred during period Mar. 25 to Apr. 5.

2/ From outside high-water mark.

BEAVER RIVER BASIN

265

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 downstream from Bakers Canyon and 4.5 miles east of Beaver.

DRAINAGE AREA.--82 sq mi, approximately.

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,500 ft (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 downstream at different datum. Oct. 16, 1937 to Mar. 20, 1959 at site 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--57 years, 51.6 cfs (37,380 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 147 cfs June 18 (gage height, 2.36 ft); minimum daily, 15 cfs Jan. 6-8.

Period of record: Maximum discharge, 1,080 cfs July 22, 1936 (gage height, 7.27 ft, site and datum then in use), from rating curve extended above 500 cfs; minimum daily recorded, 9.7 cfs Feb. 11, 1964.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	19	19	22	20	31	53	104	91	32	26
2	23	22	21	19	22	19	31	66	104	88	31	24
3	23	21	21	18	21	18	31	76	107	86	29	23
4	23	22	20	17	20	18	32	84	107	84	30	23
5	23	22	21	16	23	18	34	78	107	81	36	23
6	23	22	21	15	22	18	38	73	106	77	41	22
7	25	23	21	15	21	19	42	75	114	77	39	27
8	24	23	21	15	22	17	43	76	117	76	46	27
9	24	22	21	16	21	17	45	75	113	72	43	24
10	25	23	21	17	21	18	51	77	113	70	35	23
11	24	21	21	17	21	18	55	82	118	67	32	23
12	23	23	21	17	20	19	59	84	109	51	31	22
13	23	21	20	17	20	19	62	86	104	49	28	22
14	22	18	21	17	20	18	63	97	114	47	27	22
15	23	18	21	17	20	18	59	114	128	46	26	21
16	20	21	21	17	19	17	63	130	121	47	26	21
17	21	21	21	17	20	17	70	123	120	57	26	21
18	21	21	21	18	20	17	64	113	125	54	27	21
19	22	20	19	18	20	17	51	109	114	52	27	21
20	22	19	19	19	19	17	54	116	107	53	27	21
21	22	20	21	19	19	18	50	123	103	52	28	21
22	23	21	21	17	19	19	46	120	104	49	30	21
23	22	21	21	17	19	19	44	113	102	39	28	22
24	25	21	18	18	20	20	40	113	99	37	27	21
25	23	22	17	18	19	20	37	121	92	36	27	22
26	22	21	18	17	19	22	29	128	92	35	27	22
27	20	23	18	19	18	27	35	140	86	33	27	21
28	22	25	18	18	19	31	34	132	88	31	27	21
29	23	23	18	18	-----	29	35	127	97	31	28	20
30	23	22	19	19	-----	36	42	120	93	32	27	20
31	23	-----	19	19	-----	39	-----	111	-----	34	28	-----
TOTAL	705	645	620	540	566	639	1,370	3,135	3,208	1,734	943	668
MEAN	22.7	21.5	20.0	17.4	20.2	20.6	45.7	101	107	55.9	30.4	22.3
MAX	25	25	21	19	23	39	70	140	128	91	46	27
MIN	20	18	17	15	18	17	29	53	86	31	26	20
AC-FT	1,400	1,280	1,230	1,070	1,120	1,270	2,720	6,220	6,360	3,440	1,870	1,320

CAL YR 1970 TOTAL 17,377 MEAN 47.6 MAX 224 MIN 17 AC-FT 34,470
WTR YR 1971 TOTAL 14,773 MEAN 40.5 MAX 140 MIN 15 AC-FT 29,300

PEAK DISCHARGE (BASE, 150 CFS).--No peaks above base.

BEAVER RIVER BASIN

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 upstream from Big Twist Creek and the Yardley Ranch, 1.8 miles downstream from Fishlake National Forest boundary, and 7.5 miles southeast of Beaver.

DRAINAGE AREA.--15 sq mi, approximately.

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

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 6,900 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 3.47 cfs (2,510 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 58 cfs Aug. 6 (gage height, 1.55 ft); minimum, 0.17 cfs Nov. 26.

Period of record: Maximum discharge, about 200 cfs Aug. 1, 1965 (gage height, 1.75 ft); no flow for part of Aug. 15, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.85	1.5	.68	1.1	1.3	6.5	11	9.3	2.1	.41	.73
2	.59	.85	1.6	.60	1.1	1.3	7.5	14	8.6	1.8	.36	.63
3	.59	.90	1.4	.57	1.0	1.3	3.9	14	8.3	1.8	.35	.56
4	.62	.95	1.8	.56	1.0	1.4	5.2	12	7.9	1.6	.46	.59
5	.81	.99	2.0	.56	1.0	1.5	4.8	11	7.7	1.4	.56	.53
6	.70	1.1	2.1	.56	1.0	1.8	4.4	10	7.2	1.4	3.1	.45
7	.91	1.2	2.1	.60	1.1	1.9	4.5	11	7.6	1.2	2.5	1.0
8	.91	1.3	1.6	.70	1.1	2.1	4.4	11	8.2	1.4	1.5	.89
9	.96	1.3	1.2	.85	1.2	2.2	4.6	10	8.6	1.2	1.1	.55
10	.92	1.3	1.2	.90	1.2	2.4	4.9	10	8.7	1.1	.80	.44
11	.82	1.3	1.2	.90	1.2	2.6	5.1	10	9.6	.93	.61	.37
12	.82	1.3	1.1	.90	1.3	2.7	5.5	11	9.3	.81	.51	.29
13	.79	1.1	1.1	.90	1.4	3.1	5.7	12	8.4	.81	.45	.28
14	.69	1.0	1.1	.90	1.4	3.4	5.3	13	8.1	.81	.48	.32
15	.68	1.0	1.1	.90	1.5	3.6	5.3	15	8.2	.81	.43	.32
16	.66	1.0	1.1	.90	1.5	3.8	5.8	16	8.1	1.1	.45	.31
17	.66	1.0	1.1	.90	1.5	4.2	5.7	16	7.7	1.6	1.8	.35
18	.66	1.0	1.1	.95	1.5	4.6	4.9	13	7.1	1.6	2.6	.51
19	.66	1.0	1.0	1.0	1.5	5.0	2.8	11	6.5	1.6	.84	.60
20	.72	1.4	1.3	1.1	1.5	5.1	4.6	11	5.8	1.6	.69	.61
21	.77	1.4	1.4	1.1	1.5	5.5	4.9	11	5.2	1.2	1.1	.64
22	.86	1.6	1.2	1.0	1.5	5.5	4.3	11	4.4	1.3	1.3	.68
23	.99	1.9	1.1	1.0	1.5	5.6	3.8	10	4.2	1.1	.91	.68
24	1.1	2.1	.99	1.0	1.5	5.6	3.3	9.3	3.1	.85	.80	.59
25	1.0	1.5	1.0	1.0	1.5	5.6	3.0	9.4	3.1	.75	.72	.53
26	.91	.65	1.1	1.0	1.5	5.7	3.3	11	2.8	.73	.75	.50
27	.84	2.0	1.1	1.0	1.4	6.3	3.3	12	2.6	.64	.90	.53
28	.84	2.2	1.1	1.0	1.3	6.3	4.0	11	2.8	.52	1.0	.59
29	.84	1.6	1.1	1.0	-----	6.0	5.7	11	2.6	.78	1.5	.59
30	.84	1.5	1.0	1.1	-----	5.6	8.6	11	2.3	1.0	1.4	.66
31	.87	-----	.89	1.1	-----	4.9	-----	10	-----	.55	1.1	-----
TOTAL	24.61	38.29	39.68	27.23	36.8	117.9	145.6	358.7	194.0	36.09	31.48	16.32
MEAN	.79	1.28	1.28	.88	1.31	3.80	4.85	11.6	6.47	1.16	1.02	.54
MAX	1.1	2.2	2.1	1.1	1.5	6.3	8.6	16	9.6	2.1	3.1	1.0
MIN	.58	.65	.89	.56	1.0	1.3	2.8	9.3	2.3	.52	.35	.28
AC-FT	49	76	79	54	73	234	289	711	385	72	62	32

CAL YR 1970 TOTAL 829.04 MEAN 2.27 MAX 15 MIN .32 AC-FT 1,640
WTR YR 1971 TOTAL 1,066.70 MEAN 2.92 MAX 16 MIN .28 AC-FT 2,120

PEAK DISCHARGE (BASE, 15 CFS, revised)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-02	0900	0.87	17	8-06	1700	1.53	58
5-15	2200	.90	17				

NOTE.--No gage-height record Jan. 4 to Mar. 25.

BEAVER RIVER BASIN

267

10236000 North Fork North Creek near Beaver, Utah

LOCATION.--Lat 38°20'44", long 112°33'03", in SE¼SW¼NE¼ sec.29, T.28 S., R.6 W., Beaver County, on right bank 25 ft upstream from road ford, 0.5 mile above South Fork North Creek, 0.8 mile east of Fishlake National Forest boundary, and 6.8 miles northeast of Beaver.

DRAINAGE AREA.--14.1 sq mi.

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 (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 downstream at different datum.

AVERAGE DISCHARGE.--6 years, 5.71 cfs (4,140 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 42.1 cfs Aug. 21 (gage height, 0.91 ft); minimum, 0.53 cfs Dec. 11, result of freezeup.
Period of record: Maximum discharge, 101 cfs Aug. 23, 1961 (gage height, 11.17 ft, datum then in use, from high-water mark) by slope-area measurement of peak flow; minimum recorded, 0.28 cfs Dec. 22, 1966, result of freezeup.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.7	1.6	1.4	1.9	2.6	8.0	9.8	11	8.6	2.4	1.2
2	1.5	1.5	1.6	1.4	1.7	2.0	6.4	12	10	7.8	2.3	1.1
3	1.5	1.5	1.6	1.2	1.7	2.6	4.7	14	9.8	7.3	2.2	1.6
4	1.5	1.5	1.6	1.1	1.7	2.7	4.9	14	10	7.0	2.0	1.4
5	1.7	1.7	1.6	1.1	1.8	2.8	4.9	12	12	6.3	2.7	1.2
6	1.7	1.7	1.6	1.1	1.9	2.9	5.3	10	12	5.9	2.2	1.1
7	2.0	1.7	1.6	1.1	1.9	2.9	6.0	9.9	17	5.7	2.5	2.2
8	1.7	1.6	1.6	1.1	2.0	2.9	6.0	11	17	5.4	2.7	1.7
9	1.9	1.6	1.6	1.1	2.0	2.8	5.5	12	17	5.0	2.3	1.5
10	1.9	1.7	1.6	1.2	2.1	2.9	6.2	13	18	4.8	2.0	1.3
11	1.7	1.9	1.6	1.2	2.2	3.1	6.6	14	18	4.6	1.8	1.2
12	1.7	2.1	1.6	1.2	2.3	3.5	7.2	13	16	4.4	1.7	1.1
13	1.7	1.9	1.6	1.3	2.5	3.8	7.7	13	15	4.2	1.8	1.1
14	1.7	1.6	1.6	1.3	2.6	4.0	7.8	14	18	4.1	1.7	1.0
15	1.6	1.6	1.6	1.3	2.9	4.2	7.2	19	20	4.0	1.8	1.0
16	1.6	1.5	1.6	1.4	2.7	4.0	7.2	23	21	4.3	1.8	.99
17	1.5	1.5	1.5	1.4	2.6	4.0	8.9	21	22	4.2	1.9	1.0
18	1.5	1.5	1.3	1.4	2.5	4.0	8.2	16	21	3.9	2.1	1.2
19	1.5	1.4	1.2	1.5	2.2	4.0	6.3	14	19	3.7	1.8	1.3
20	1.6	1.4	2.2	1.5	1.9	4.2	5.7	14	18	3.6	2.1	1.3
21	1.7	1.5	1.7	1.5	1.9	4.3	5.2	15	17	3.8	3.1	1.3
22	2.1	1.7	1.7	1.4	2.0	4.3	4.9	15	17	3.6	1.8	1.3
23	1.9	1.7	1.5	1.4	2.4	4.3	4.7	14	16	3.4	1.4	1.2
24	2.1	1.7	1.4	1.4	2.4	4.5	4.3	12	15	3.1	1.3	1.2
25	1.8	1.7	1.5	1.3	2.4	4.7	4.1	14	14	2.9	1.3	1.1
26	1.6	2.1	1.7	1.3	2.0	5.5	3.9	18	12	2.8	1.6	1.1
27	1.5	2.1	1.7	1.3	1.7	6.3	3.6	22	11	2.7	1.5	1.2
28	1.5	2.2	1.4	1.4	2.2	6.3	3.8	20	11	2.6	1.8	1.3
29	1.5	1.9	1.4	1.5	-----	6.5	4.2	18	10	2.6	1.7	1.3
30	1.5	1.9	1.4	1.6	-----	7.5	6.2	15	9.1	2.5	1.5	1.5
31	1.7	-----	1.4	1.8	-----	7.3	-----	13	-----	2.6	1.3	-----
TOTAL	51.9	51.1	48.6	41.2	60.1	127.4	175.6	454.7	453.9	137.4	60.1	37.99
MEAN	1.67	1.70	1.57	1.33	2.15	4.11	5.85	14.7	15.1	4.43	1.94	1.27
MAX	2.1	2.2	2.2	1.8	2.9	7.5	8.9	23	22	8.6	3.1	2.2
MIN	1.5	1.4	1.2	1.1	1.7	2.0	3.6	9.8	9.1	2.5	1.3	.99
AC-FT	103	101	96	82	119	253	348	902	900	273	119	75
CAL YR 1970	TOTAL	1,956.40	MEAN	5.36	MAX	36	MIN	1.1	AC-FT	3,880		
WTR YR 1971	TOTAL	1,699.99	MEAN	4.66	MAX	23	MIN	.99	AC-FT	3,370		

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	1100	0.71	24.7	6-17	1100	0.74	26.9
5-27	0800	.69	24.7	8-21	1700	.93	42.1

BEAVER RIVER BASIN

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 upstream from the Fishlake National Forest boundary, 1.2 miles upstream from the mouth, and 7 miles northeast of Beaver.

DRAINAGE AREA.--23.0 sq mi.

PERIOD OF RECORD.--June to September 1906, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (from topographic map). June to September 1906, nonrecording gage at about this site at different datum.

AVERAGE DISCHARGE.--6 years, 17.3 cfs (12,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge during year, 130 cfs June 16 (gage height, 2.21 ft); minimum daily discharge, 1.5 cfs Jan. 2-8.

Period of record: Maximum discharge, 1,550 cfs (result of slope-area measurement) July 24, 1968 (gage height, 3.10 ft); minimum daily 1.5 cfs Jan. 2-8, 1971.

REMARKS.--Records poor. No diversion above station. Some regulation possible by Blue Lake Reservoir (capacity, 378 acre-feet).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	2.8	5.0	1.6	4.0	4.2	15	29	35	29	8.8	5.2
2	4.7	2.7	4.8	1.5	3.9	4.1	13	39	32	27	8.6	4.5
3	4.8	2.6	4.5	1.5	3.9	4.2	12	43	32	26	8.5	4.5
4	4.8	2.5	4.4	1.5	3.3	4.0	12	43	31	24	8.2	5.4
5	4.8	2.5	4.1	1.5	3.9	3.9	13	38	32	23	9.5	4.8
6	4.8	2.6	3.9	1.5	4.0	3.8	16	34	34	22	8.2	4.3
7	4.8	2.6	3.6	1.5	4.1	3.8	18	35	41	21	8.6	6.4
8	4.8	2.7	3.4	1.5	4.3	3.8	17	38	44	20	9.6	5.5
9	4.7	2.7	3.3	1.6	4.4	3.7	16	38	45	19	9.0	4.8
10	4.7	2.7	3.2	1.7	4.5	4.0	19	42	48	18	8.2	4.5
11	4.7	2.7	3.1	1.7	4.6	4.1	21	44	53	17	7.8	4.1
12	4.6	2.7	3.1	1.8	4.7	4.6	22	43	49	61	7.4	3.9
13	4.1	2.7	3.0	1.8	4.9	4.8	23	43	49	80	7.2	3.7
14	4.1	2.7	2.9	1.8	5.4	4.8	24	50	60	65	7.0	3.6
15	4.1	2.7	2.9	1.7	5.9	4.8	22	65	83	52	7.0	3.6
16	4.1	2.7	2.7	1.7	5.8	4.9	22	68	89	44	7.0	3.6
17	4.1	2.7	2.6	1.8	5.5	5.0	25	58	92	30	7.0	3.7
18	4.2	2.6	2.6	1.8	5.3	5.4	22	47	84	20	7.6	4.0
19	4.3	2.6	2.6	1.9	5.0	6.1	18	39	68	16	7.0	4.4
20	4.3	2.6	2.6	2.0	5.0	5.9	17	36	61	14	6.7	4.4
21	4.0	2.6	2.5	2.1	4.8	6.0	15	37	59	12	10	4.4
22	3.5	2.7	2.4	2.2	4.7	6.5	15	37	60	11	6.6	4.2
23	3.0	3.0	2.0	2.3	4.6	6.5	14	36	59	11	5.6	4.0
24	2.5	3.5	1.7	2.7	4.5	6.7	13	33	55	10	5.8	3.7
25	2.3	4.4	1.7	3.3	4.4	6.9	12	34	43	10	6.4	3.5
26	2.3	5.5	1.7	3.7	4.4	9.8	11	40	40	10	6.2	3.5
27	2.3	6.1	1.7	3.5	4.4	16	11	48	37	9.9	7.0	3.7
28	2.3	5.4	1.7	3.6	4.3	16	12	48	35	9.7	7.2	4.0
29	2.4	5.5	1.7	3.6	-----	16	14	46	32	9.4	6.6	4.2
30	2.6	5.2	1.7	3.6	-----	20	21	42	31	9.2	6.0	4.4
31	2.8	-----	1.7	3.7	-----	19	-----	38	-----	9.0	5.4	-----
TOTAL	120.1	97.0	88.8	67.7	128.5	219.3	505	1,311	1,513	739.2	231.7	128.5
MEAN	3.87	3.23	2.86	2.18	4.59	7.07	16.8	42.3	50.4	23.8	7.47	4.28
MAX	4.8	6.1	5.0	3.7	5.9	20	25	68	92	80	10	6.4
MIN	2.3	2.5	1.7	1.5	3.3	3.7	11	29	31	9.0	5.4	3.5
AC-FT	238	192	176	134	255	435	1,000	2,600	3,000	1,470	460	255

CAL YR 1970 TOTAL 6,082.4 MEAN 16.7 MAX 107 MIN 1.7 AC-FT 12,060

WTR YR 1971 TOTAL 5,149.8 MEAN 14.1 MAX 92 MIN 1.5 AC-FT 10,210

PEAK DISCHARGE (BASE, 80 CFS).--June 16 (0500) 130 cfs (2.21 ft); July 12 or 13 (unknown) about 100 cfs (unknown).

NOTE.--No gage-height record Oct. 1-Nov. 24, Dec. 25-Feb. 10, and June 27-Sept. 30.

BEAVER RIVER BASIN

269

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 downstream from bridge on State Highway 21, 1.5 miles upstream from Indian Creek, and 1.5 miles east of Adamsville.

DRAINAGE AREA.--267 sq mi.

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 (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 downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 miles downstream at different datum. May 29, 1946 to Mar. 19, 1970 at site 1.75 miles downstream at different datum.

AVERAGE DISCHARGE.--57 years (1914-71), 35.8 cfs (25,940 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 314 cfs Aug. 27 (gageheight, 2.59 ft); minimum discharge, 0.73 cfs Apr. 17.

Period of record: Maximum discharge, 1,090 cfs July 23, 1941 (gage height, 4.68 ft, site and datum then in use), from rating curve extended above 500 cfs; no flow during summer and fall months in many years.

REMARKS.--Records good except those for winter periods, which are fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	34	50	49	44	44	37	4.2	20	1.5	2.0	24
2	17	43	54	49	46	40	24	1.9	14	2.2	2.3	22
3	15	47	51	46	44	41	24	1.8	11	4.3	1.2	13
4	18	44	51	39	48	42	23	2.6	14	4.7	1.3	15
5	19	44	54	37	52	39	22	4.4	14	2.0	2.9	15
6	22	45	53	35	47	37	21	9.0	11	2.0	11	12
7	31	50	52	35	45	41	21	6.9	5.8	2.6	18	11
8	29	54	53	35	48	41	21	7.6	12	2.3	26	13
9	28	49	54	35	44	45	22	8.8	12	.89	28	12
10	29	50	53	35	42	45	22	6.0	11	.75	15	12
11	32	49	51	40	41	42	22	7.4	14	.36	12	5.4
12	31	49	51	45	39	42	21	10	15	.31	8.5	3.8
13	31	50	52	45	40	44	20	13	12	.35	2.3	4.2
14	30	45	49	45	40	42	18	10	7.7	.54	3.1	4.2
15	29	44	54	45	40	42	18	12	7.3	2.9	5.2	2.2
16	29	44	53	45	39	41	11	18	12	3.3	5.1	2.7
17	28	43	52	45	45	39	2.1	15	8.3	5.2	5.9	3.8
18	29	43	51	45	46	36	13	12	7.2	2.7	14	7.3
19	29	41	51	45	42	35	15	7.4	4.2	1.9	7.3	10
20	30	40	51	45	46	35	17	8.9	4.8	2.3	3.4	22
21	29	41	50	45	54	35	10	7.3	9.8	2.1	7.9	21
22	29	42	51	45	46	35	19	10	3.3	2.7	14	21
23	30	44	50	45	46	37	19	14	2.1	6.0	8.9	19
24	29	43	49	45	45	37	17	11	2.3	2.5	1.8	18
25	27	45	47	45	43	39	15	13	1.7	2.0	3.3	16
26	28	122	48	45	42	42	14	9.8	1.5	2.6	5.2	16
27	28	89	50	45	39	51	9.6	11	.94	.64	28	14
28	28	56	52	46	42	55	3.4	12	.45	1.5	93	17
29	29	49	53	46	-----	59	3.6	15	.47	4.7	51	15
30	31	57	51	46	-----	58	4.5	20	.57	2.2	32	15
31	31	-----	51	45	-----	56	-----	20	-----	3.0	30	-----
TOTAL	838	1,496	1,592	1,338	1,235	1,317	509.2	310.0	240.43	73.04	449.6	386.6
MEAN	27.0	49.9	51.4	43.2	44.1	42.5	17.0	10.0	8.01	2.36	14.5	12.9
MAX	32	122	54	49	54	59	37	20	20	6.0	93	24
MIN	13	34	47	35	39	35	2.1	1.8	.45	.31	1.2	2.2
AC-FT	1,660	2,970	3,160	2,650	2,450	2,610	1,010	615	477	145	892	767
CAL YR 1970	TOTAL	10,544.40	MEAN	28.9	MAX	129	MIN	.58	AC-FT	20,910		
WTR YR 1971	TOTAL	9,784.87	MEAN	26.8	MAX	122	MIN	.31	AC-FT	19,410		

BEAVER RIVER BASIN

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 downstream from Fishlake National Forest boundary, about 0.6 mile upstream from Manderfield ditch diversion, and 11 miles north of Beaver.

DRAINAGE AREA.--18.5 sq mi.

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 (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.--8 years (1947-49, 1965-71), 6.13 cfs (4,440 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 17 cfs May 16, 17 (gage height, 1.36 ft); maximum gage height, 1.93 ft Feb. 19 (backwater from ice); minimum daily discharge, 1.1 cfs Jan. 2-9.

Period of record: Maximum discharge, 83 cfs May 22, 1968 (gage height, 1.57 ft); maximum gage height, that of Feb. 19, 1971; minimum recorded discharge, 0.8 cfs Dec. 31, 1965 and Jan. 2, 1966, result of freezeup.

REMARKS.--Records good except those for winter periods, which are fair. No diversions above station. Some regulation from small reservoirs at headwaters (capacity about 500 acre-ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.4	2.0	1.2	1.9	1.6	4.6	8.8	11	9.8	7.1	2.0
2	2.2	1.4	1.9	1.1	1.9	1.6	4.2	8.9	10	9.6	6.9	1.9
3	2.2	1.4	1.8	1.1	1.9	1.6	3.9	9.2	10	9.5	7.0	2.0
4	2.2	1.4	1.7	1.1	2.0	1.7	3.8	10	9.7	9.6	7.3	1.9
5	2.2	1.4	1.6	1.1	2.1	1.7	3.8	12	9.6	9.4	7.3	1.9
6	2.2	1.4	1.6	1.1	2.2	1.7	3.9	11	9.5	9.4	7.2	1.8
7	2.6	1.4	1.7	1.1	2.3	1.8	3.8	11	9.7	9.2	6.9	2.1
8	2.3	1.4	1.8	1.1	2.4	1.8	3.9	11	9.8	9.2	6.7	1.8
9	2.3	1.4	1.8	1.1	2.2	1.9	3.9	12	9.9	8.9	6.4	1.8
10	2.2	1.4	1.7	1.4	2.0	1.9	4.1	13	12	8.8	6.5	1.7
11	2.2	1.3	1.6	1.4	2.0	2.0	4.1	14	14	8.6	5.3	1.7
12	2.2	1.3	1.6	1.4	1.8	2.1	4.2	14	14	8.9	3.8	1.6
13	2.1	1.3	1.6	1.4	1.7	2.2	4.2	14	12	8.8	3.5	1.6
14	2.1	1.3	1.6	1.3	1.7	2.2	4.3	14	12	8.7	3.4	1.6
15	2.0	1.3	1.6	1.3	1.7	2.2	4.3	14	13	8.1	3.4	1.5
16	2.0	1.3	1.6	1.3	1.7	2.2	4.3	16	14	7.0	3.5	1.5
17	1.9	1.3	1.6	1.3	1.7	2.2	4.5	17	14	6.9	3.7	1.5
18	1.9	1.3	1.6	1.3	1.8	2.1	5.0	17	13	6.9	3.9	1.6
19	1.9	1.3	1.6	1.3	1.8	2.1	4.8	16	12	6.7	3.6	1.6
20	1.9	1.3	1.6	1.3	1.8	2.2	4.8	14	11	6.9	3.6	1.6
21	1.9	1.4	1.6	1.4	1.8	2.2	4.6	13	10	7.2	3.9	1.6
22	1.9	1.9	1.6	1.7	1.8	2.4	4.5	13	9.5	7.0	3.6	1.6
23	1.9	2.6	1.6	2.2	1.8	2.5	4.5	13	9.1	6.8	3.3	1.6
24	1.8	2.2	1.6	2.4	1.7	2.6	4.3	13	8.1	6.6	3.1	1.6
25	1.7	2.0	1.6	2.4	1.7	2.9	4.3	12	8.9	6.6	3.0	1.5
26	1.5	2.0	1.6	2.4	1.6	3.8	4.2	11	7.6	6.4	2.9	1.5
27	1.4	2.0	1.6	2.3	1.6	4.2	4.1	12	7.2	6.9	2.9	1.5
28	1.4	2.0	1.6	2.2	1.6	3.8	4.5	13	7.2	7.3	2.9	1.5
29	1.4	2.0	1.6	2.1	-----	3.9	4.6	13	7.6	7.1	2.6	1.5
30	1.4	2.0	1.6	2.1	-----	4.1	7.9	13	9.9	7.4	2.5	1.6
31	1.4	-----	1.4	1.9	-----	4.1	-----	12	-----	7.3	2.3	-----
TOTAL	60.6	47.1	51.0	47.8	52.2	75.3	131.9	394.9	315.3	247.5	140.0	50.2
MEAN	1.95	1.57	1.65	1.54	1.86	2.43	4.40	12.7	10.5	7.98	4.52	1.67
MAX	2.6	2.6	2.0	2.4	2.4	4.2	7.9	17	14	9.8	7.3	2.1
MIN	1.4	1.3	1.4	1.1	1.6	1.6	3.8	8.8	7.2	6.4	2.3	1.5
AC-FT	120	93	101	95	104	149	262	783	625	491	278	100

CAL YR 1970 TOTAL 1,850.6 MEAN 5.07 MAX 23 MIN 1.3 AC-FT 3,670
WTR YR 1971 TOTAL 1,613.8 MEAN 4.42 MAX 17 MIN 1.1 AC-FT 3,200

PEAK DISCHARGE (BASE, 20 CFS).--No peaks above base.

BEAVER RIVER BASIN

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10238500 Minersville Reservoir near Minersville, Utah
(Formerly published as Rockyford Reservoir near Minersville)

LOCATION.--Lat 38°13'03", long 112°50'05", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.30 S., R.9 W., Beaver County, Rocky Ford Dam on Beaver River, 5 miles east of Minersville.

DRAINAGE AREA.--510 sq mi, 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 above mean sea level. Levels by topographic survey.

EXTREMES.--Current year: Maximum contents observed, 18,990 acre-ft Apr. 30 (gage height, 46.8 ft); minimum (interpolated), 5,560 acre-ft Sept. 30.

Period of record: Maximum contents observed, 26,330 acre-ft June 24-29, 1969 (gage height, 53.8 ft). 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 between gage height 0.0 (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937 the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				13,920								
2												5,630
3												
4					15,530							
5												
6					15,690							
7												
8												
9												
10												
11				14,320								
12												
13												
14			12,300		16,180							
15												
16												
17												
18				14,720								
19												
20												
21						17,760						
22												
23		10,470	13,270		16,810				11,760	8,200		
24					16,910							
25				15,130								
26												
27	8,360			15,530				15,940				
28					^a 17,050		18,890					
29												
30		^a 11,080				18,700	18,990	^a 15,320	^a 10,930	^a 7,640	^a 5,680	^a 5,560
31	^a 8,670		^a 13,860	^a 15,530		^a 18,710						
(†)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
(‡)	+1,220	+2,410	+2,780	+1,670	+1,520	+1,660	+280	-3,670	-4,390	-3,290	-1,960	-120
CAL YR 1970.....	‡ -3,040											
WTR YR 1971.....	‡ -1,890											

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

‡ Change in contents, in acre-feet.

^a No gage-height readings; contents interpolated.

BEAVER RIVER BASIN

10239000 Beaver River at Rocky Ford Dam, near Minersville, Utah

LOCATION.--Lat 38°13'03", long 112°50'22", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.11, T.30 S., R.9 W., Beaver County, on right bank 0.5 mile downstream from Rocky Ford Dam and 4.8 miles east of Minersville.

DRAINAGE AREA.--512 sq mi.

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Altitude of gage is 5,400 ft (by barometer). Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

AVERAGE DISCHARGE.--56 years (1914-36, 1937-71), 36.7 cfs (26,590 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 122 cfs July 20 (gage height, 2.17 ft); minimum daily, 3.4 cfs Sept. 25.
Period of record: Maximum discharge, 727 cfs June 10, 1921 (gage height, 3.53 ft); minimum daily, 0.4 cfs Mar. 20, 1914.

REMARKS.--Records good. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

REVISIONS(WATER YEARS.--WSP 1564: 1920, 1924.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	7.5	8.6	11	12	9.9	11	32	76	68	80	47
2	43	7.3	8.7	11	12	9.4	11	53	78	74	77	47
3	41	7.4	8.8	11	12	9.3	11	64	76	77	76	46
4	39	7.5	9.1	11	12	9.3	12	77	73	75	71	35
5	38	7.5	9.3	11	12	9.6	12	85	72	72	68	24
6	36	7.5	8.7	9.8	12	9.3	12	85	74	69	70	23
7	35	7.7	9.0	8.6	11	9.3	12	88	83	70	63	22
8	32	7.5	9.3	8.7	11	9.3	12	90	87	69	59	18
9	31	7.8	9.3	7.8	11	9.3	12	91	89	71	52	17
10	18	7.9	9.3	7.5	11	9.3	12	91	89	81	50	16
11	9.3	7.4	8.7	7.8	11	9.3	12	83	88	89	53	11
12	8.7	7.9	8.8	7.2	11	9.3	12	78	84	89	54	11
13	8.7	7.9	8.9	6.9	11	9.4	12	74	87	86	58	12
14	8.7	7.6	9.2	6.9	11	9.3	12	70	84	89	63	12
15	8.7	7.5	9.3	7.5	11	9.3	12	70	85	74	60	9.3
16	8.7	7.6	8.7	7.7	11	9.3	11	70	86	44	61	7.5
17	8.7	7.8	9.2	8.1	11	9.3	11	77	85	56	60	7.0
18	8.6	8.0	9.3	8.1	11	9.3	12	75	83	64	60	6.9
19	8.7	7.9	9.2	8.7	11	9.3	12	72	78	93	58	5.7
20	8.7	8.1	9.0	9.0	10	9.3	12	72	74	117	60	4.5
21	8.7	8.4	8.3	9.3	9.9	9.7	12	72	73	115	50	4.0
22	8.5	8.7	8.2	9.9	9.8	10	12	72	69	111	5.2	3.9
23	8.1	8.7	8.1	9.9	9.9	11	12	68	71	103	20	3.5
24	8.1	8.7	8.1	10	9.9	11	13	69	72	89	33	3.6
25	8.1	9.1	8.7	10	10	11	13	75	69	86	53	3.4
26	8.1	9.9	8.7	11	10	11	12	78	63	85	68	4.0
27	7.5	8.7	8.9	11	10	11	12	79	62	80	54	6.6
28	7.5	8.7	9.1	11	10	11	12	81	62	80	38	6.7
29	7.5	8.7	9.9	11	-----	11	12	83	63	81	42	12
30	7.2	9.4	9.9	12	-----	11	12	78	63	81	47	17
31	7.0	-----	9.9	12	-----	11	-----	75	-----	78	47	-----
TOTAL	529.8	242.3	278.2	292.4	304.5	305.8	357	2,327	2,298	2,516	1,710.2	446.6
MEAN	17.1	8.08	8.97	9.43	10.9	9.86	11.9	75.1	76.6	81.2	55.2	14.9
MAX	43	9.9	9.9	12	12	11	13	91	89	117	80	47
MIN	7.0	7.3	8.1	6.9	9.8	9.3	11	32	62	44	5.2	3.4
AC-FT	1,050	481	552	580	604	607	708	4,620	4,560	4,990	3,390	886

CAL YR 1970 TOTAL 15,649.8 MEAN 42.9 MAX 227 MIN 7.0 AC-FT 31,040
WTR YR 1971 TOTAL 11,607.8 MEAN 31.8 MAX 117 MIN 3.4 AC-FT 23,020

10241400 Little Creek near Paragonah, Utah

LOCATION.--Lat 37°54'10", long 112°42'45", near center of sec.25, T.33 S., R.8 W., Iron County, on right bank 0.5 mile downstream from Dixie National Forest boundary, 2.5 miles upstream from mouth of canyon, and 3.5 miles northeast of Paragonah.

DRAINAGE AREA.--17 sq mi, approximately.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 1.56 cfs (1,130 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 152 cfs Aug. 21 (gage height, 2.84 ft); minimum, 0.03 cfs Nov. 19, 26, Dec. 1.

Period of record: Maximum discharge, 351 cfs, Aug. 3, 1961 (gage height, 3.86 ft, from floodmarks) from rating curve extended above gage height 1.4 ft on basis of slope-area measurement made at gage height 3.55 ft; maximum gage height, 4.20 ft July 31, 1968; no flow at times in most years.

REMARKS.--Records good. Station is above all diversions.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.61	.30	.89	1.1	1.2	3.4	2.3	3.6	2.1	.65	1.1
2	.45	.61	.53	.79	1.1	1.2	2.9	2.3	3.6	2.0	.64	.96
3	.45	.53	.45	.70	.61	1.2	2.7	2.3	3.6	2.0	.64	.90
4	.53	.61	.45	.70	.61	1.2	2.5	2.1	3.4	2.0	.80	.84
5	.45	.61	.53	.61	1.2	1.1	2.3	2.1	3.4	2.0	.89	.80
6	.37	.53	.53	.56	.79	1.1	2.1	2.3	3.4	2.0	1.2	.79
7	.70	.89	.53	.52	.70	1.2	1.6	2.3	3.4	1.9	1.0	.78
8	.70	.79	.79	.54	.89	1.2	1.6	2.5	3.4	1.9	1.8	1.1
9	.61	.70	.79	.56	.89	1.2	1.8	2.7	3.6	1.8	2.6	1.0
10	.53	.67	.61	.58	1.2	1.8	1.8	2.7	4.1	1.6	1.4	.90
11	.53	.70	.37	.63	1.4	1.8	1.8	2.9	3.6	1.6	1.3	.75
12	.53	.79	.53	.67	1.4	2.9	1.8	3.1	3.6	1.5	1.2	.60
13	.53	.79	.53	.68	1.8	3.6	1.8	4.3	3.4	1.4	1.1	.60
14	.53	.30	.70	.70	1.6	2.3	1.8	4.1	3.4	1.5	1.0	.62
15	.53	.45	.70	.70	1.4	2.5	1.8	4.1	3.4	1.5	1.1	.65
16	.53	.61	.70	.75	1.1	2.7	1.8	3.8	3.1	1.6	1.2	.66
17	.53	.53	.70	.83	.79	2.1	1.8	3.8	3.1	1.5	1.1	.72
18	.53	.53	.79	.96	1.2	2.5	2.3	4.1	2.9	1.4	1.0	.75
19	.53	.37	.70	1.3	.45	3.6	2.1	4.1	2.9	1.4	1.0	.78
20	.45	.45	.79	1.8	.06	4.8	2.5	3.8	2.9	1.4	1.2	.75
21	.53	.53	.79	1.8	.61	6.2	2.9	3.8	2.7	1.4	3.4	.86
22	.61	.70	.79	.61	1.1	7.7	2.9	4.1	2.7	1.3	1.2	.88
23	.53	.61	.79	.53	1.1	8.6	2.9	4.3	2.5	1.2	1.6	.89
24	.70	.70	.70	.61	1.0	12	2.9	4.1	2.5	1.1	1.2	.86
25	.53	.70	.70	.79	.89	16	2.7	3.8	2.4	1.0	1.5	.86
26	.24	.45	.79	1.0	1.0	14	2.7	3.6	2.3	.90	1.3	.86
27	.45	1.1	.79	1.2	1.0	8.3	2.5	3.8	2.3	.88	1.4	.88
28	.45	.70	.79	1.1	1.1	5.6	2.5	3.8	2.2	.80	3.9	.91
29	.47	1.0	.79	1.2	-----	4.8	2.5	4.1	2.2	.74	2.5	.94
30	.56	.89	.79	1.1	-----	4.3	2.3	3.8	2.2	.84	1.6	1.1
31	.70	-----	.89	1.1	-----	4.1	-----	3.6	-----	.78	1.3	-----
TOTAL	16.15	19.45	20.63	26.51	28.09	132.8	69.0	104.5	91.8	45.04	43.72	25.09
MEAN	.52	.65	.67	.86	1.00	4.28	2.30	3.37	3.06	1.45	1.41	.84
MAX	.70	1.1	.89	1.8	1.8	16	3.4	4.3	4.1	2.1	3.9	1.1
MIN	.24	.30	.30	.52	.06	1.1	1.6	2.1	2.2	.74	.64	.60
AC-FT	32	39	41	53	56	263	137	207	182	89	87	50

CAL YR 1970 TOTAL 436.77 MEAN 1.20 MAX 3.5 MIN .24 AC-FT 866
WTR YR 1971 TOTAL 622.78 MEAN 1.71 MAX 16 MIN .06 AC-FT 1,240

PEAK DISCHARGE (BASE, 11 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-26	1800	1.59	25	8-21	2100	2.84	152
8-08	1600	1.62	26				

PAROWAN VALLEY

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 above the high-water line of Red Creek Reservoir, 5.8 miles east of Paragonah.

DRAINAGE AREA.--6.3 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 1.46 cfs (1,060 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 14 cfs May 9 (gage height, 2.48 ft); minimum, 0.37 cfs Aug. 1.

Period of record: Maximum discharge, 48 cfs Aug. 17, 1965 (gage height, 3.28 ft, from floodmark); minimum, 0.3 cfs Aug. 7, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.1	1.2	1.0	.94	.79	2.4	2.1	1.7	1.2	.87	1.1
2	.89	1.3	1.1	1.0	.94	.84	2.5	2.1	1.6	1.2	.81	1.1
3	.89	1.3	1.1	1.0	.94	.89	2.1	2.0	1.6	1.2	.85	1.1
4	.94	1.4	1.1	.94	.89	.89	2.3	1.9	1.6	1.2	.94	1.1
5	.94	1.1	1.0	.79	.94	.94	2.4	2.1	1.5	1.3	.94	1.1
6	.94	1.1	1.0	.61	.94	.90	3.2	3.0	1.5	1.1	1.0	1.0
7	1.0	1.1	1.0	.55	.94	.94	2.2	3.1	1.4	1.2	1.0	1.3
8	1.1	1.2	1.1	.55	1.1	.89	2.3	3.0	1.4	1.1	1.0	1.1
9	1.0	1.1	1.1	.58	1.0	.89	2.6	2.9	1.4	1.1	1.0	1.1
10	.99	1.1	1.1	.69	.99	.94	2.7	2.9	1.3	1.1	.98	1.1
11	1.0	1.1	1.1	.74	.89	.89	3.0	2.6	1.6	1.1	.94	1.1
12	.99	1.1	1.1	.74	.84	1.0	3.0	2.7	1.5	1.0	.95	1.1
13	.99	1.1	.99	.74	.84	.99	3.1	2.6	1.3	1.0	.94	1.1
14	.99	1.2	1.0	.74	.84	1.0	2.8	2.6	1.2	1.1	.93	1.0
15	.94	1.1	1.1	.74	.89	.99	2.8	2.5	1.2	1.0	.97	.96
16	.94	1.1	1.1	.79	.90	1.0	2.7	2.5	1.1	1.1	1.3	.97
17	.94	1.1	1.1	.89	.94	.99	2.4	2.4	1.1	1.1	1.1	1.0
18	.94	1.0	1.1	.94	.94	1.0	2.1	2.3	1.1	1.1	1.1	1.0
19	.94	1.0	1.1	.94	1.0	1.0	1.8	2.1	1.1	1.1	1.0	1.0
20	1.0	.99	1.1	.99	.79	1.0	2.0	2.1	1.2	1.0	1.1	1.0
21	.94	1.0	1.1	.94	.79	1.1	1.9	2.0	1.1	1.1	1.2	.99
22	1.0	1.0	1.1	.94	.84	1.1	1.9	2.1	1.1	1.0	1.2	1.0
23	.99	1.0	1.0	.94	.94	1.3	1.8	2.1	1.2	.97	1.1	1.0
24	1.0	1.1	1.0	.94	.94	1.4	1.9	2.0	1.2	.97	1.0	1.0
25	1.0	1.1	1.0	.94	.94	1.5	1.8	1.8	1.2	1.0	1.2	1.0
26	.99	1.1	1.0	.99	.89	2.3	1.6	1.8	1.2	.98	1.1	.96
27	1.0	1.2	1.0	.94	.84	2.4	1.7	1.8	1.2	.94	2.1	1.0
28	1.0	1.1	1.1	.90	.79	2.2	1.8	1.8	1.2	.93	1.6	.98
29	1.0	1.1	1.1	.90	-----	2.3	2.0	1.8	1.3	.90	1.1	.93
30	1.1	1.2	1.0	.94	-----	2.5	2.0	1.8	1.3	.92	1.4	1.0
31	1.2	-----	1.0	.90	-----	2.2	-----	1.7	-----	.91	1.2	-----
TOTAL	30.47	33.49	32.99	26.23	25.46	39.07	68.8	70.2	39.4	32.92	33.92	31.19
MEAN	.98	1.12	1.06	.85	.91	1.26	2.29	2.26	1.31	1.06	1.09	1.04
MAX	1.2	1.4	1.2	1.0	1.1	2.5	3.2	3.1	1.7	1.3	2.1	1.3
MIN	.89	.99	.99	.55	.79	.79	1.6	1.7	1.1	.90	.81	.93
AC-FT	60	66	65	52	51	78	136	139	78	65	67	62
CAL YR 1970	TOTAL 496.29	MEAN 1.36	MAX 5.6	MIN .77	AC-FT 984							
WTR YR 1971	TOTAL 464.14	MEAN 1.27	MAX 3.2	MIN .55	AC-FT 921							

PEAK DISCHARGE (BASE, 4.0 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-13	1800	2.02	5.9	8-27	2000	2.02	5.8
5-09	1900	2.48	14				

PAROWAN VALLEY

275

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 above mouth of Parowan Creek and 3.5 miles south of Parowan.

DRAINAGE AREA.--11 sq mi, approximately, does not include 2.0 sq mi that contributes runoff to Yankee Meadows Reservoir, located on Boworg Creek, which is a tributary to Center Creek, 0.5 mile below station.

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

AVERAGE DISCHARGE.--7 years, 6.54 cfs (4,740 acre-ft per year).

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft above mean sea level (from topographic map).

EXTREMES.--Current year: Maximum discharge, 24 cfs Aug. 21 (gage height, 1.02 ft); maximum gage height, 2.54 ft Feb. 4 (backwater from ice); minimum discharge recorded, 3.0 cfs Nov. 26 and June 21.

Period of record: Maximum discharge, 353 cfs Aug. 10, 1965 (gage height, 4.96 ft, from floodmarks), from rating curve extended above 18 cfs on basis of slope-area measurement, at gage height, 4.96 ft; minimum, 2.3 cfs Apr. 15, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.3	4.6	4.1	5.4	3.5	4.6	4.6	5.5	6.9	5.9	4.4
2	4.6	4.3	4.3	3.5	5.4	3.5	4.3	5.1	4.3	6.8	5.9	4.0
3	4.6	4.3	4.6	3.3	5.4	3.5	4.3	5.7	4.3	7.2	5.9	3.9
4	4.6	4.1	4.3	3.3	4.5	3.6	4.3	6.2	4.2	7.3	5.5	3.9
5	4.3	4.3	4.1	3.3	4.7	3.7	4.3	7.2	4.1	6.8	4.9	3.7
6	4.3	4.6	4.3	3.4	4.5	3.8	4.3	7.1	4.0	6.7	5.6	3.9
7	4.6	5.0	4.3	3.5	4.3	3.9	4.3	6.8	4.1	6.6	6.0	4.9
8	5.0	4.3	4.1	3.8	4.0	3.9	4.3	6.4	3.9	6.6	5.9	4.2
9	5.0	4.3	4.3	4.2	4.0	4.0	4.6	6.1	3.9	6.4	5.7	4.3
10	5.0	4.3	4.3	4.5	4.1	4.2	4.6	6.7	4.2	6.4	5.4	4.3
11	5.0	4.1	4.2	4.7	4.1	4.1	5.0	6.6	4.9	6.2	5.0	4.1
12	5.0	4.1	4.2	4.6	4.2	4.0	5.3	7.3	4.2	6.6	4.9	4.3
13	5.0	4.1	4.1	5.0	4.2	4.0	5.3	7.4	4.1	6.6	5.1	4.2
14	5.4	4.2	4.2	5.0	4.2	3.9	5.0	7.4	3.8	6.4	5.1	4.3
15	5.4	4.3	4.3	5.0	4.2	3.8	5.3	7.5	3.9	6.4	5.6	4.3
16	5.7	4.3	4.6	5.0	3.8	3.8	4.9	7.2	4.0	6.6	5.6	4.3
17	5.4	4.3	4.6	5.0	3.8	3.7	5.1	6.7	4.2	6.4	5.7	4.3
18	5.0	4.3	4.6	5.0	3.8	3.7	4.9	6.3	4.2	6.6	5.9	4.1
19	5.0	4.5	4.7	5.4	3.8	3.7	4.5	6.0	4.2	6.7	5.7	4.1
20	5.0	4.4	4.4	5.4	3.6	3.9	4.7	6.1	3.6	6.3	5.9	4.1
21	4.6	4.3	3.8	5.4	3.5	4.5	4.4	6.0	3.2	6.2	6.4	4.1
22	5.0	4.2	3.8	5.0	3.4	4.9	4.4	6.3	3.4	6.3	6.4	4.1
23	5.0	4.1	3.8	5.0	3.3	5.2	4.3	6.7	4.2	6.5	6.0	4.1
24	5.0	4.1	3.9	5.0	3.2	5.6	4.3	6.1	5.2	6.6	6.1	4.1
25	5.0	3.8	4.0	5.0	3.1	5.8	4.2	6.3	4.8	6.3	7.0	3.8
26	4.6	4.3	4.0	4.6	3.1	6.0	4.0	6.6	4.8	6.2	7.2	3.7
27	4.6	4.3	4.1	4.6	3.1	6.1	4.0	6.3	5.5	6.1	6.8	3.7
28	4.5	4.3	4.2	4.6	3.2	6.5	4.0	5.9	6.7	6.0	5.2	3.7
29	4.5	4.6	4.3	5.4	-----	5.4	3.9	6.1	7.4	5.8	4.8	3.5
30	4.5	4.6	4.5	5.4	-----	5.7	4.2	5.6	7.2	5.6	5.3	3.7
31	4.6	-----	4.6	5.4	-----	5.0	-----	5.6	-----	5.9	4.7	-----
TOTAL	150.4	129.0	132.1	142.4	111.9	136.9	135.6	197.9	136.0	200.0	177.1	122.1
MEAN	4.85	4.30	4.26	4.59	4.00	4.42	4.52	6.38	4.53	6.45	5.71	4.07
MAX	5.7	5.0	4.7	5.4	5.4	6.5	5.3	7.5	7.4	7.3	7.2	4.9
MIN	4.3	3.8	3.8	3.3	3.1	3.5	3.9	4.6	3.2	5.6	4.7	3.5
AC-FT	298	256	262	282	222	272	269	393	270	397	351	242

CAL YR 1970 TOTAL 2,151.7 MEAN 5.90 MAX 11 MIN 3.8 AC-FT 4,270

WTR YR 1971 TOTAL 1,771.4 MEAN 4.85 MAX 7.5 MIN 3.1 AC-FT 3,510

PEAK DISCHARGE (BASE, 30 CFS).--No peaks above base.

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 upstream from concrete diversion dam, 1.2 miles south of U.S. Highway 91, and 1.3 miles southeast of Summit.

DRAINAGE AREA.--24 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (from topographic map). Prior to July 15, 1971, at site 600 ft downstream at different datum.

AVERAGE DISCHARGE.--7 years, 4.28 cfs (3,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 858 cfs Aug. 6 (gage height, 4.25 ft) from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 cfs Feb. 5-7.

Period of record: Maximum discharge, 858 cfs Aug. 6, 1971 (gage height, 4.25 ft) from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 cfs Feb. 5-7, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.0	2.7	1.4	3.4	1.0	1.4	6.1	6.0	3.2	1.3	2.0
2	1.2	1.8	2.3	1.2	3.2	1.0	1.4	7.6	5.4	2.9	1.3	1.8
3	1.2	1.6	2.7	1.2	2.9	1.0	1.1	11	5.0	2.9	1.3	1.6
4	1.7	1.6	2.8	1.2	2.6	1.0	1.6	9.3	4.5	2.9	1.4	1.6
5	1.7	1.4	2.5	1.2	2.8	1.1	2.1	8.6	4.3	2.8	2.9	1.5
6	1.7	1.4	2.6	1.2	2.9	1.1	2.6	8.3	4.3	2.6	5.5	1.6
7	2.2	1.7	2.6	1.3	2.4	1.1	2.9	8.6	4.2	2.4	3.3	1.7
8	2.0	1.5	2.8	1.4	2.5	1.1	3.2	9.1	4.1	2.4	1.7	1.7
9	2.3	1.5	2.8	1.6	2.5	1.1	3.5	9.1	4.1	2.4	1.7	1.6
10	2.2	1.9	2.8	1.8	2.5	1.1	5.1	9.7	4.5	2.3	1.6	1.5
11	2.3	1.8	4.2	2.1	2.3	1.1	3.9	9.9	4.7	2.3	1.5	1.5
12	2.1	2.0	3.1	1.9	2.2	1.1	5.4	12	4.5	2.4	1.4	1.5
13	2.1	2.0	3.1	1.9	2.3	1.1	5.7	13	3.9	2.4	1.4	1.6
14	2.0	1.5	2.5	1.9	2.4	2.8	12	14	3.5	2.3	1.4	1.7
15	1.9	1.9	2.5	1.9	2.3	2.0	4.5	17	3.3	2.1	1.5	1.8
16	1.9	1.9	2.3	2.1	2.2	1.6	2.1	15	3.4	2.0	1.6	1.8
17	2.0	1.8	2.1	2.1	2.3	1.8	3.1	14	3.5	2.2	1.6	1.8
18	1.9	1.9	2.1	2.2	2.1	1.8	2.9	12	3.5	2.2	1.8	1.7
19	1.8	2.0	2.1	2.3	2.0	2.3	2.5	12	3.5	2.0	1.8	1.7
20	1.6	2.3	2.2	2.4	2.0	1.8	2.4	14	3.3	1.9	1.7	1.7
21	1.9	2.1	2.1	2.3	1.9	1.7	2.1	12	2.7	1.9	2.3	1.7
22	1.9	2.0	2.1	2.5	1.3	1.6	2.0	11	2.9	1.9	2.6	1.7
23	1.8	1.9	1.9	2.6	1.2	1.6	2.2	10	3.0	1.8	2.1	1.7
24	2.0	2.0	1.9	3.1	1.2	1.3	2.7	10	3.0	1.7	2.1	1.7
25	1.9	2.0	1.9	3.0	1.1	1.7	2.7	10	2.8	1.7	2.9	1.7
26	1.7	2.4	1.9	2.9	1.0	2.4	3.3	10	2.8	1.6	3.5	1.6
27	1.9	2.1	1.9	2.9	1.0	2.4	3.3	10	3.0	1.6	3.0	1.6
28	2.3	1.7	1.8	3.1	1.0	1.4	3.7	9.5	3.0	1.6	2.6	1.6
29	2.0	2.1	1.8	3.5	-----	1.6	4.0	9.2	3.2	1.5	2.3	1.6
30	2.2	2.6	1.8	3.4	-----	2.0	4.1	8.0	3.2	1.4	2.3	1.6
31	2.2	-----	1.8	3.4	-----	1.4	-----	6.7	-----	1.4	2.2	-----
TOTAL	58.8	56.4	73.7	67.0	59.5	47.1	99.5	326.7	113.1	66.7	65.6	49.9
MEAN	1.90	1.88	2.38	2.16	2.13	1.52	3.32	10.5	3.77	2.15	2.12	1.66
MAX	2.3	2.6	4.2	3.5	3.4	2.8	12	17	6.0	3.2	5.5	2.0
MIN	1.2	1.4	1.8	1.2	1.0	1.0	1.1	6.1	2.7	1.4	1.3	1.5
AC-FT	117	112	146	133	118	93	197	648	224	132	130	99

CAL YR 1970 TOTAL 1,474.90 MEAN 4.04 MAX 42 MIN .45 AC-FT 2,930
WTR YR 1971 TOTAL 1,084.00 MEAN 2.97 MAX 17 MIN 1.0 AC-FT 2,150

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-15	2400	2.96	24	8-26	1600	2.01	29
8-06	1700	4.25	858				

NOTE.--No gage-height record May 22 to July 14.

CEDAR CITY VALLEY

277

10242000 Coal Creek near Cedar City, Utah

LOCATION.--Lat 37°40'20", long 113°02'02", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.36 S., R.11 W., Iron County, on right bank 600 ft downstream from powerplant, 1.2 miles east of Cedar City, and 4 miles downstream from South Creek.

DRAINAGE AREA.--80.9 sq mi.

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 (from topographic map). Prior to Mar. 30, 1939, non-recording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder, at several sites about 0.5 mile upstream at various datums. May 15, 1945, to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 miles upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder, at site 600 ft upstream at different datum.

AVERAGE DISCHARGE.--35 years (1935-37, 1938-71), 31.4 cfs (22,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 278 cfs Aug. 5 (gage height, 5.06 ft); minimum, about 4.2 cfs Dec. 11.

Period of record: Maximum discharge, 4,620 cfs July 23, 1969 (gage height, 11.67 ft, from floodmark), based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 cfs Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

REMARKS.--Records fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	9.3	9.6	9.8	13	12	25	83	90	27	15	17
2	10	8.8	9.6	9.6	12	12	24	87	89	26	15	14
3	10	8.5	8.0	8.3	12	12	24	92	90	25	15	14
4	11	8.8	9.6	9.3	9.0	13	23	90	89	24	17	14
5	10	9.0	8.8	9.6	12	13	24	79	91	24	15	13
6	10	9.0	9.6	10	11	14	26	76	86	23	31	12
7	11	10	10	9.8	11	14	28	78	76	23	13	15
8	10	9.3	10	10	11	14	28	85	66	22	40	13
9	11	9.3	10	10	11	13	32	91	61	21	11	12
10	11	9.8	8.8	10	12	13	36	95	59	21	11	11
11	10	9.0	7.6	10	13	14	39	99	62	20	11	11
12	10	9.0	7.6	10	12	14	43	106	63	20	11	11
13	10	8.8	8.1	10	13	17	50	110	63	20	11	11
14	10	6.9	9.3	10	13	14	53	126	63	19	13	11
15	9.8	7.6	8.8	9.8	13	13	54	140	60	20	11	11
16	9.3	9.0	9.0	10	12	13	58	137	57	21	11	11
17	9.8	8.5	9.3	11	12	14	67	117	55	25	15	11
18	9.6	8.3	8.8	12	13	12	69	101	51	18	12	11
19	9.6	8.0	8.1	14	11	13	66	97	47	20	11	11
20	9.6	8.1	9.3	16	11	15	64	99	43	19	12	12
21	9.6	8.5	9.3	16	11	16	66	103	43	21	18	12
22	10	8.8	9.3	12	12	17	65	100	42	21	17	12
23	9.8	8.5	8.5	11	11	17	67	96	40	19	14	12
24	9.8	8.8	7.8	10	10	17	66	94	38	18	13	12
25	9.6	9.0	8.1	11	12	18	67	95	36	18	13	12
26	9.3	9.6	9.3	12	10	20	65	98	35	18	16	12
27	9.6	9.6	10	12	10	24	65	102	35	17	25	12
28	8.0	9.3	9.6	12	11	25	67	99	34	17	42	12
29	9.3	11	9.0	12	-----	26	71	97	31	17	23	12
30	9.6	10	9.3	12	-----	30	80	95	28	17	21	12
31	9.6	-----	9.8	13	-----	31	-----	92	-----	15	22	-----
TOTAL	305.7	268.1	279.9	342.2	324.0	510	1,512	3,059	1,723	636	525	366
MEAN	9.86	8.94	9.03	11.0	11.6	16.5	50.4	98.7	57.4	20.5	16.9	12.2
MAX	11	11	10	16	13	31	80	140	91	27	42	17
MIN	8.0	6.9	7.6	8.3	9.0	12	23	76	28	15	11	11
AC-FT	606	532	555	679	643	1,010	3,000	6,070	3,420	1,260	1,040	726

CAL YR 1970 TOTAL 8,216.7 MEAN 22.5 MAX 189 MIN 6.9 AC-FT 16,300
WTR YR 1971 TOTAL 9,850.9 MEAN 27.0 MAX 140 MIN 6.9 AC-FT 19,540

PEAK DISCHARGE (BASE, 550 CFS).--No peaks above base.

RAFT RIVER BASIN

13077700 George Creek near Yost, Utah

LOCATION.--Lat 41°55'07", long 113°28'51", in SE¼SW¼SW¼ sec.20, T.14 N., R.14 W., Box Elder County, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 miles southeast of Yost, 5 miles south of Utah-Idaho State line, and 16 miles southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 sq mi.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 7.46 cfs (5,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 115 cfs June 10 (gage height, 1.74 ft); minimum, 2.2 cfs Jan. 14-16, Mar. 6-11, 14.
Period of record: Maximum discharge, 146 cfs June 10, 1963 (gage height, 1.96 ft); minimum daily, 1.1 cfs several days in January and February 1962.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.8	2.8	2.8	2.6	2.4	3.7	12	47	22	6.9	3.8
2	2.8	2.8	2.8	2.7	2.6	2.4	3.7	16	40	20	6.8	3.8
3	2.8	2.8	2.8	2.6	2.6	2.4	3.6	20	38	21	6.6	4.0
4	2.8	2.8	2.8	2.6	2.6	2.4	3.6	21	33	20	6.4	3.9
5	3.0	2.8	2.8	2.6	2.6	2.4	4.0	17	34	20	6.9	3.7
6	3.0	3.0	2.8	2.6	2.6	2.2	4.4	16	40	21	5.9	3.6
7	3.0	2.8	2.8	2.6	2.6	2.2	5.1	19	49	23	7.1	4.4
8	3.1	2.8	2.8	2.6	2.6	2.2	5.0	23	62	22	5.9	3.9
9	3.7	2.8	2.8	2.6	2.6	2.2	5.2	23	73	20	5.4	3.7
10	3.5	2.8	2.7	2.6	2.6	2.2	6.0	22	92	19	5.2	3.6
11	3.2	2.7	2.8	2.6	2.4	2.2	5.9	24	96	18	5.1	3.6
12	3.2	2.8	2.6	2.6	2.4	2.4	5.6	32	82	17	4.9	3.6
13	3.0	2.5	2.6	2.5	2.4	2.4	5.3	39	82	16	4.9	3.6
14	3.0	2.3	2.6	2.3	2.6	2.4	6.3	35	92	15	4.8	3.6
15	2.9	2.7	2.6	2.5	2.6	2.4	6.6	35	84	14	4.9	3.6
16	2.9	2.6	2.8	2.5	2.6	2.2	6.6	40	84	14	4.8	3.6
17	2.9	2.6	2.8	2.9	2.6	2.3	7.0	35	82	14	4.7	3.7
18	2.8	2.6	2.8	3.4	2.6	2.2	6.3	27	73	13	4.7	3.7
19	2.8	2.6	2.6	3.6	2.6	2.2	5.9	23	67	13	4.6	3.7
20	2.8	2.6	2.6	3.9	2.6	2.5	5.9	20	64	12	4.7	3.7
21	3.0	2.6	2.6	3.1	2.4	2.6	5.9	20	64	12	4.6	3.7
22	3.0	2.6	2.6	3.0	2.4	2.6	5.6	19	65	12	4.6	3.7
23	3.2	2.7	2.6	2.8	2.4	2.8	5.9	18	63	11	4.4	3.4
24	3.0	3.1	2.6	2.8	2.4	2.9	5.6	19	58	10	4.3	3.4
25	2.8	3.2	2.6	2.8	2.4	2.8	5.9	23	54	10	4.3	3.4
26	3.0	3.0	2.6	2.7	2.4	3.2	5.9	39	48	9.6	4.2	3.4
27	2.8	2.7	2.6	2.6	2.4	3.2	5.9	59	44	8.8	3.9	3.5
28	2.8	2.8	2.6	2.6	2.4	3.1	6.3	62	37	8.4	3.9	3.5
29	2.8	2.8	2.6	2.6	-----	3.3	7.0	63	31	8.1	4.1	3.7
30	2.8	2.9	2.8	2.6	-----	3.5	8.7	60	25	7.8	4.1	3.8
31	2.8	-----	2.8	2.6	-----	3.5	-----	54	-----	7.2	3.8	-----
TOTAL	92.0	82.6	83.7	85.3	70.6	79.7	168.4	935	1,803	458.9	157.4	110.3
MEAN	2.97	2.75	2.70	2.75	2.52	2.57	5.61	30.2	60.1	14.8	5.08	3.68
MAX	3.7	3.2	2.8	3.9	2.6	3.5	8.7	63	96	23	7.1	4.4
MIN	2.8	2.3	2.6	2.3	2.4	2.2	3.6	12	25	7.2	3.8	3.4
AC-FT	182	164	166	169	140	158	334	1,850	3,580	910	312	219

CAL YR 1970 TOTAL 3,102.9 MEAN 8.50 MAX 65 MIN 1.9 AC-FT 6,150
WTR YR 1971 TOTAL 4,126.9 MEAN 11.3 MAX 96 MIN 2.2 AC-FT 8,190

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-16	0400	1.29	41	6-10	2100	1.74	115
5-29	1800	1.53	75				

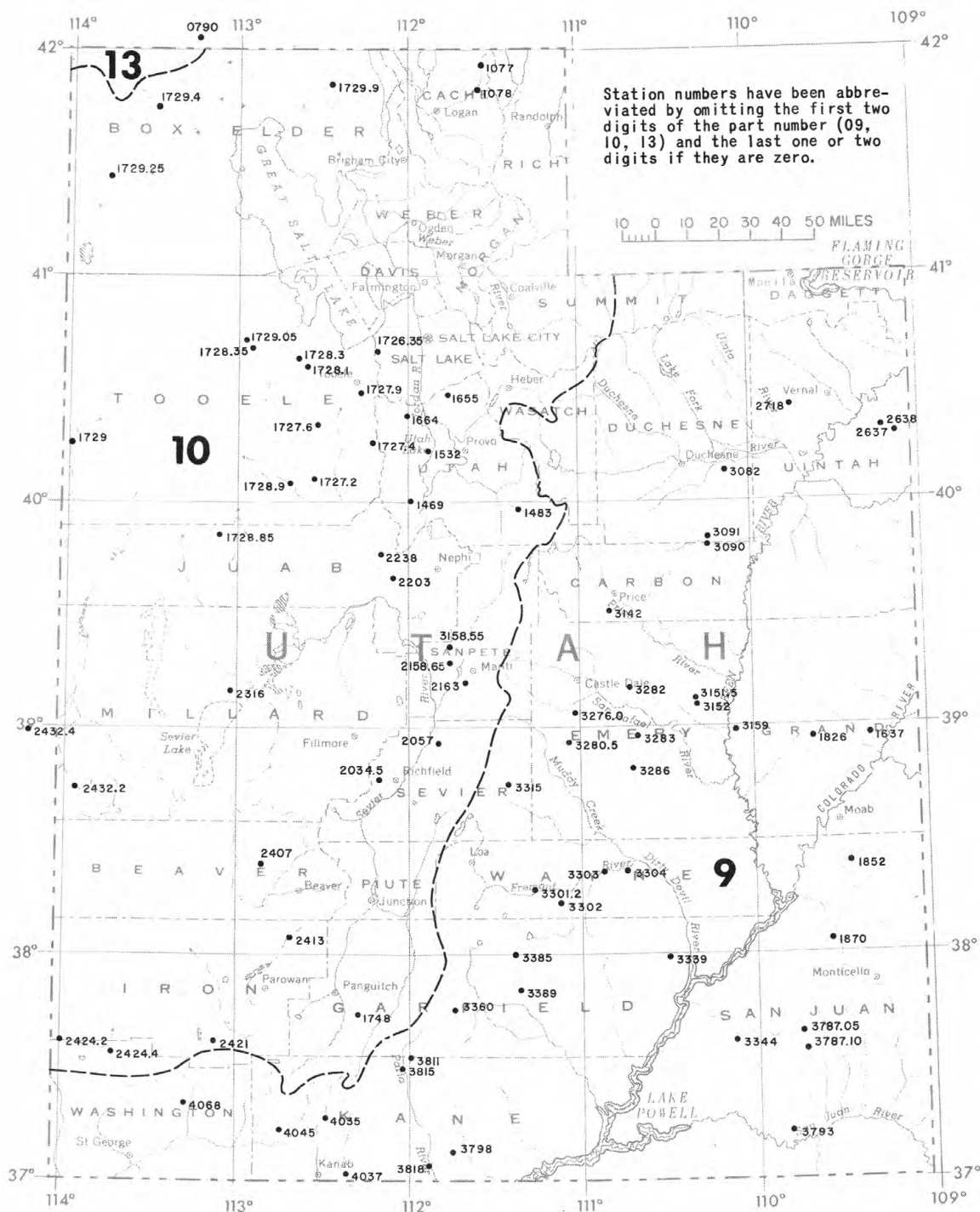


Figure 3.—Map of Utah showing location of crest-stage partial-record stations.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 1971 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 for high flow.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Annual maximum discharge at crest-stage partial-record stations							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Part 9 Tributaries between Utah-Colorado State line and Dolores River							
09163700	Cisco Wash near Cisco, Utah	SE $\frac{1}{4}$ sec.23, T.21 S., R.23 E., 1 mile west of Cisco and about 7.5 miles above mouth.	a29	1959-71	8-25-71	12.30	1,600
Tributaries between Dolores River and Green River							
09182600	Salt Wash near Thompson, Utah	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.21 S., R.20 E., 3 miles east of Thompson.	a 3.9	1959-71	5-19-71	10.90	44
09185200	Kane Springs Canyon near Moab, Utah	Center of sec.1, T.28 S., R.22 E., 7 miles northwest of LaSal Junction and 15 miles south of Moab.	17.8	1959-71	8-02-71	11.42	320
Green River basin							
09263700	Cliff Creek near Jensen, Utah	NW $\frac{1}{4}$ sec.20, T.6 S., R.25 E., about 0.7 mile north on Harper road and 13 miles east from Jensen bridge.	a64	1960-71	3-26-71	10.60	90
09263800	Cow Wash near Jensen, Utah	NE $\frac{1}{4}$ sec.16, T.6 S., R.24 E., on U.S. Highway 40, 7.8 miles east of Jensen bridge.	a 3.9	1960-71	6-11-71	11.69	188
09271800	Halfway Hollow tributary near LaPoint, Utah	NE $\frac{1}{4}$ sec.2, T.5 S., R.19 E., 3.0 miles east of LaPoint on State Highway 121.	a 5.6	1960-71	8-30-71	11.70	191
09308200	Pleasant Valley Wash tributary near Myton, Utah	Center of sec.20, T.4 S., R.2 W., Uintah special meridian, 5.5 miles southwest on State Highway 53 from junction U.S. Highway 40 and State Highway 53, and 7.3 miles southwest of Myton.	a15	1960-71	8-27-71	11.33	1,110
09309000	Minnie Maud Creek at Nutter Ranch near Myton, Utah	SE $\frac{1}{4}$ sec.32, T.11 S., R.15 E., 28 miles above mouth and 32 miles by road from town of Myton on State Highway 53.	231	*1947-55 *1960-71	9-01-71	5.34	591
09309100	Gate Canyon near Myton, Utah	Lat 39°50', long 110°15' (unsurveyed), 1.4 miles above mouth and 32.9 miles on State Highway 53 south of Duchesne River bridge at Myton.	a5.4	1960-71	9-01-71	10.35	280
09314200	Miller Creek near Price, Utah	SE $\frac{1}{4}$ sec.17, T.15 S., R.10 E., at upstream side of bridge on State Highway 10, 5.5 miles south of Price.	a62	1960-71	8-29-71	10.04	175
09315150	Saleratus Wash tributary near Woodside, Utah	NE $\frac{1}{4}$ sec.34, T.19 S., R.14 E., on U.S. Highways 6 and 50, 5.3 miles south from railroad underpass and 10 miles south of Woodside.	a10	1959-71	8-25-71	13.14	640
09315200	Saleratus Wash tributary No. 2 near Woodside, Utah	NW $\frac{1}{4}$ sec.11, T.20 S., R.14 E., on U.S. Highways 6 and 50, 7.3 miles south from railroad underpass and 12 miles south of Woodside.	a 4.4	1959-71	7-20-71	17.04	2,600
09315900	Browns Wash tributary near Green River, Utah	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.13, T.21 S., R.16 E., about 3.5 miles east of Green River and 15 miles west of Crescent Junction.	3.89	1959-71	4-23-71	9.26	.1
09327600	Ferron Creek tributary near Ferron, Utah	NE $\frac{1}{4}$ sec.21, T.20 S., R.8 E., 6.6 miles east of Ferron and 10 miles south of Castle Dale.	.96	1959-71	8-25-71	9.95	12
09328050	Dry Wash near Moore, Utah	SW $\frac{1}{4}$ sec.31, T.21 S., R.8 E., 5 miles southeast of Moore and about 9.5 miles northeast of Emery.	a14	1959-71	7-15-71	12.52	190
09328300	Sids Draw near Castle Dale, Utah	Sec.23, T.21 S., R.11 E. (unsurveyed), about 8.5 miles south of San Rafael River bridge along the Castle Dale-Temple Junction road and 24 miles southeast of Castle Dale.	17.6	1959-71	7-16-71	10.28	60
09328600	Georges Draw near Hanksville, Utah	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.9, T.23 S., R.11 E., 25 miles south of San Rafael River bridge along the Castle Dale-Temple Junction road and 31 miles north of Hanksville.	6.63	1959-71	8-26-71	8.78	.1

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Dirty Devil River basin							
09330120	Sulphur Creek near Fruita, Utah	NW¼ sec.15, T.29 S., R.6 E., at west entrance to Capitol Reef National Monument, 1 mile west of Fruita.	56.7	1959-71	7-27-71	12.87	470
09330200	Pleasant Creek at Notom, Utah	NE¼SE¼ sec.2, T.30 S., R.7 E., about 0.5 mile above crossing on State Highway 24 at Notom and 13 miles east of Fruita.	a80.6	1959-71	1971	-	(b)
09330300	Neilson Wash near Caineville, Utah	NW¼NW¼ sec.19, T.28 S., R.10 E., 8 miles east of Caineville and 9 miles west of Hanksville.	22.3	1959-71	8-26-71	14.60	1,300
09330400	Fremont River near Hanksville, Utah	SW¼ sec.17, T.28 S., R.11 E., at masonry diversion dam, 2.2 miles west of Hanksville.	a1,900	1959-71	8-26-71	14.39	4,200
09331500	Ivie Creek above diversions near Emery, Utah	NW¼NW¼ sec.1, T.24 S., R.4 E., about 1.2 miles below Clear Creek and 14 miles southwest of Emery.	a50	1950-61 1962-71	8-25-71	13.11	280
North Wash basin							
09333900	Butler Canyon near Hite, Utah	Sec.29, T.32 S., R.13 E. (unsurveyed), on State Highway 95, about 2.5 miles west of Hog Canyon Spring, about 12.5 miles from mouth of North Wash, and 13 miles northwest of Hite.	14.7	1959-70	8-26-71	13.47	625
White Canyon basin							
09334400	Fry Canyon near Hite, Utah	Sec.34, T.36 S., R.16 E. (unsurveyed), 2 miles southeast of Fry Canyon store, 3 miles above mouth, and 22 miles southeast of Hite.	20.9	1959-71	8-21-71	9.89	3.5
Escalante River basin							
09336000	Birch Creek near Escalante, Utah	SE¼ sec.13, T.35 S., R.1 E., 2 miles above mouth and 7 miles west of Escalante.	a36	1950-51 1959-71	7-28-71	13.03	1,050
09336400	Upper Valley Creek near Escalante, Utah	NW¼NW¼ sec.29, T.35 S., R.2 E., 2.2 miles above mouth and 7 miles west of Escalante.	a53	1959-71	8-25-71	13.22	1,600
09338500	East Fork Deer Creek near Boulder, Utah	Sec.29, T.32 S., R.5 E. (unsurveyed), 1 mile above West Fork Deer Creek and 8 miles north of Boulder.	a1.9	1950-55 1959-71	4-16-71	11.06	60
09338900	Deer Creek near Boulder, Utah	NE¼ sec.16, T.34 S., R.5 E., about 3.5 miles above mouth and 6.4 miles east of Boulder.	a63	1959-71	9-30-71	9.35	28
San Juan River basin							
09378705	Big Canyon near Bland- ing, Utah	NW¼NE¼ sec.17, T.36 S., R.22 E., 700 feet up- stream at the Brushy Basin Wash Road and 3 miles northwest of Blanding.	3.33	* 1971	1971	-	0
09378710	West Water Creek right hand tributary near Blanding, Utah	SW¼SW¼ sec.8, T.37 S., R.22 E., 0.25 miles up- stream of Utah Highway 95 and 6 miles south- west of Blanding.	1.46	* 1971	9-11-71	2.83	1.2
09379300	Lime Creek near Mexican Hat, Utah	SE¼ sec.16, T.41 S., R.19 E., about 1.5 miles below Left Fork Lime Creek, about 3 miles above mouth, and 5 miles northeast of Mexican Hat.	a32	1959-71	8-21-71	14.07	2,620
Wahweap Creek basin							
09379800	Coyote Creek near Kanab, Utah	NW¼ sec.25, T.42 S., R.1 E., 2.6 miles north of U.S. Highway 89, 8.7 miles northwest of Glen Canyon City, and 44 miles east of Kanab.	a89	1959-71	8-18-71	14.56	2,110
Paria River basin							
09381100	Henrieville Creek at Henrieville, Utah	NW¼ sec.26, T.37 S., R.2 W., at irrigation diversion dam 1 mile east of Henrieville.	a34	1959-71	8-27-71	13.64	1,900
09381500	Paria River near Cannonville, Utah	T.38 S., R.2 W. (unsurveyed), about 3 miles above Sheep Creek and about 6 miles south of Cannonville.	a220	1950-55 1959-71	8-05-71	7.52	1,730
09381800	Paria River near Kanab, Utah	NE¼ sec.4, T.43 S., R.1 W., 7 miles above Buckskin Gulch and 43 miles east of Kanab.	a668	1959-71	8-18-71	10.98	1,740
Kanab Creek basin							
09403500	Kanab Creek near Glendale, Utah	NE¼ sec.35, T.40 S., R.6 W., 7.4 miles south- east of Glendale and 10 miles south of Alton.	a72	1959-71	7-30-71	5.97	1,370
09403700	Johnson Wash near Kanab, Utah	SE¼ sec.24, T.43 S., R.5 W., 1.2 miles north of U.S. Highway 89 and 11 miles east of Kanab.	237	1959-71	7-20-71	18.19	2,100
Virgin River basin							
09404500	Mineral Gulch near Mt. Carmel, Utah	NW¼ sec.22, T.41 S., R.8 W., about 3.2 miles west of Mount Carmel Junction and 6 miles southwest of Orderville.	a7.6	1959-71	8-18-71	-	a2,750
09406800	South Ash Creek near Pintura, Utah	NE¼ sec.11, T.40 S., R.13 W., 0.9 mile south of Pintura and 3.4 miles north of Anderson Junction.	14.0	1959-71	1971	-	(b)

See footnotes at end of table, p. 283

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Part 10							
Bear River basin							
10107700	Logan River near Garden City, Utah	NW¼NW¼ sec.25, T.14 N., R.3 E., at Franklin Basin road crossing, 0.3 mile west of U.S. Highway 89, 1 mile above Beaver Creek, and 9 miles west of Garden City.	a34	1962-71	6-01-71	11.11	365
10107800	Temple Fork near Logan, Utah	NW¼ sec.35, T.13 N., R.3 E. (unsurveyed), 500 ft below Spawn Creek, 1.1 miles above mouth, and about 14.5 miles east of Logan.	15.4	1962-71	6-01-71	10.44	117
Jordan River basin							
10146900	Utah Lake tributary near Elberta, Utah	SE¼SE¼ sec.19, T.9 S., R.1 W., 1.2 miles west of State Highway 68 on left bank and 4.2 miles north of Elberta.	4.71	1961-71	1971	-	(b)
10148300	Dairy Fork near Thistle, Utah	Center of sec.11, T.10 S., R.5 E., 0.6 mile above mouth and 9 miles east of Thistle.	a11	1959-71	7-22-70 8-30-71	14.46 10.20	938 56
10153200	Big Cove Wash near Lehi, Utah	NW¼ sec.7, T.7 S., R.1 E., on right bank about 11.5 miles south of Lehi.	.44	1961-71	8-28-71	9.80	4.5
10165500	Dry Creek near Alpine, Utah	NE¼ sec.18, T.4 S., R.2 E., on right bank 2 miles northeast of Alpine and about 3.5 miles above Fort Creek.	9.82	*1947-55 *1959-71	6-15-71	1.51	170
10166400	Tickville Gulch near Cedar Valley, Utah	SE¼SE¼ sec.13, T.5 S., R.2 W., on left bank at culvert on State Highway 73, 6.5 miles northeast of Cedar Valley.	15.6	1961-71	8-31-71	11.45	54
10172635	Coon Creek below Willow Creek near Magna, Utah	NW¼NE¼ sec.14, T.2 S., R.3 W., 200 feet downstream from Willow Creek, 3.25 miles west of Bacchus, and 4 miles southwest of Magna.	8.79	1971	9-01-71	3.07	8.9
Rush Valley							
10172720	East Government Creek tributary near Vernon, Utah	SE¼ sec.17, T.8 S., R.6 W., 0.5 mile below "Lookout Pass" and 6 miles northwest of Vernon.	a .98	1961-71	1971	-	(b)
10172740	Rush Valley tributary near Fairfield, Utah	SE¼NW¼ sec.32, T.6 S., R.3 W., 6 miles west of Fairfield.	.26	1961-71	1971	-	(b)
10172760	Clover Creek near Clover, Utah	SE¼NE¼ sec.32, T.5 S., R.6 W., 75 ft above mile-post 15 on State Highway 58 and 4.3 miles west of Clover.	4.45	1961-71	6-18-71	9.90	25
Tooele Valley							
10172790	Settlement Canyon near Tooele, Utah	SE¼ sec.10, T.4 S., R.4 W., about 3.5 miles south of Tooele.	5.77	1961-71	5-16-71	11.86	a 25
10172810	Mack Canyon near Grantsville, Utah	NE¼ sec.36, T.2 S., R.7 W., about 50 ft below Dry Canyon, 0.7 mile above drift fence, and 4.5 miles west of Grantsville.	2.84	1961-71	1971	-	(b)
Skull Valley							
10172830	North Fork Muskrat Canyon near Timpie, Utah	NW¼ sec.21, T.2 S., R.7 W., 8 miles south of Timpie.	1.78	1961-71	1971	-	(b)
10172835	Skull Valley tributary near Delle, Utah	NW¼ sec.31, T.1 S., R.9 W., on right bank 300 ft above road crossing and about 8 miles southwest from Delle.	a 1.5	1960-71	4- -71	9.25	.2
Great Salt Lake Desert							
10172885	Great Salt Lake Desert tributary No. 2 near Dugway, Utah	SE¼SW¼ sec.17, T.11 S., R.11 W. (unsurveyed), 1.5 miles west of Dugway Pass along Simpson Springs-Callao Road and about 32 miles southwest from Dugway.	5.48	1961-71	1971	-	(b)
10172890	Government Creek near Dugway, Utah	NW¼NE¼ sec.36, T.8 S., R.8 W., on Simpson Springs-Callao Road 0.6 mile west from road ford, 0.7 mile east of Water Tank south of road, and 12.4 miles by road south of Dugway.	a59	1961-71	1971	-	(b)
10172900	Bar Creek near Ibapah, Utah	Lat 40°15', long 113°59', T.7 S., R.19 W. (unsurveyed), about 0.5 mile above mouth and 15 miles north of Ibapah.	a12	1959-71	1971	-	(b)
10172905	Great Salt Lake Desert tributary near Delle, Utah	NW¼ sec.24, T.1 S., R.10 W., on left bank 1.0 mile below Hastings Pass and 7 miles southwest of Delle.	.97	1961-71	1971	-	(b)
10172925	Great Salt Lake Desert tributary No. 3 near Park Valley, Utah	NW¼ sec.11, T.8 N., R.17 W., on State Highway 30, 29 miles southwest from Park Valley.	a10.1	1962-71	6-08-71	9.39	1.8
Tributaries between Great Salt Lake Desert and Bear River							
10172940	Dove Creek near Park Valley, Utah	Lat 41°47', long 113°34', in SE¼ sec.4, T.12 N., R.15 W., 6 miles upstream from mouth of Black Hill Creek and 12 miles west of Park Valley.	33.2	*1969-71	8-07-71	1.64	10

See footnotes at end of table, p. 283

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations--Continued

Annual maximum discharge at crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Part 10 Tributaries between Great Salt Lake Desert and Bear River--Continued							
10172990	Blue Spring Creek near Snowville, Utah	SW $\frac{1}{4}$ sec.17, T.13 N., R.5 W., at box culvert on Interstate Highway 80N, 16 miles southeast of Snowville, and 24 miles above Bear River Bay.	a78	1959-71	8-29-71	14.24	450
Sevier Lake basin							
10174800	Red Canyon tributary near Bryce Canyon Utah	Sec.27, T.35 S., R.4 $\frac{1}{2}$ W. (unsurveyed), about 500 feet above bridge, about 0.2 mile east of east tunnel on State Highway 12, and 10 miles southeast of Panguitch.	a2.2	1959-71	8-05-71	10.30	228
10203450	Backbone Draw near Richfield, Utah	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.34, T.23 S., R.3 W., 100 ft upstream from Bureau of Land Management fence and 1.0 miles west of Richfield.	0.94	1971	8- -71	18.04	711
10205700	Salina Creek above diversions near Salina, Utah	NW $\frac{1}{4}$ sec.5, T.22 S., R.1 E., on right bank at flood dam along State Highway 10 and 3.5 miles southeast of Salina.	280	1959-71	7-21-71	12.02	790
10215855	Maple Canyon north tributary near Manti, Utah	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.17, T.17 S., R2E.,1.0 miles upstream from confluence with Maple Canyon, 7.25 miles west of Ephraim, and 6.0 miles northwest of Manti.	2.57	1971	8- -71	4.28	365
10215865	Maple Canyon south tributary near Manti, Utah	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.17 S., R.2 E., 0.5 miles up-stream from confluence with Maple Canyon, and 5.0 miles northwest of Manti.	1.57	1971	1971	-	(b)
10216300	Sixmile Creek near Sterling, Utah	SE $\frac{1}{4}$ sec.35, T.18 S., R.2 E., at diversion structure 0.6 mile below bridge and 2 miles east of Sterling.	a29	1959-71	6-11-71	10.89	185
10220300	Tintic Wash tributary near Nephi, Utah	NE $\frac{1}{4}$ sec.19, T.13 S., R.2 W., at road culvert on State Highway 148, 1.7 miles west of junction with State Highway 132 and 13.7 miles west of Nephi.	a18	1961-71	1971	-	(b)
10223800	Hop Creek near Jericho, Utah	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.12 S., R.3 W., on left bank about 3.5 miles northeast of Jericho.	1.81	1961-71	1971	-	(b)
Beaver River Basin							
10240700	Ranch Canyon near Milford, Utah	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.27 S., R.9 W., about 650 ft downstream from Lower Ranch Canyon Road, and 10 miles east of Milford.	7.49	1971	8- -71	5.55	578
Parowan Valley							
10241300	Fremont Wash near Paragonah, Utah	SE $\frac{1}{4}$ sec.30, T.31 S., R.7 W., 50 ft above bridge on old U.S. Highway 91 and 14.5 miles north of Paragonah.	a120	1959-71	8-22-71	12.85	282
Cedar City Valley							
10242100	Shurtz Creek near Cedar City, Utah	NE $\frac{1}{4}$ sec.5, T.37 S., R.11 W., 1.1 miles south of junction with U.S. Highway 91 and 5.3 miles southwest of Cedar City.	12.8	1959-71	8-04-71	18.10	790
Escalante Valley							
10242420	Shoal Creek near Enterprise, Utah	Lat 37°37'16", long 113°59'12", in SW $\frac{1}{4}$ sec.28, T.36 S., R.19 W., Iron County, 16.6 miles northwest of Enterprise on State Highway 120.	a19	1961-71	1971	-	(b)
10242440	Cottonwood Creek near Enterprise, Utah	SW $\frac{1}{4}$ sec.18, T.37 S., R.16 W., on right bank 60 ft above concrete culvert, 0.3 mile south of Dixie Forest boundary, and 1.6 miles south-east of junction of State Highways 18 and 120 at Enterprise.	a6.0	1961-71	8-21-71	20.7	1,470
Snake Valley							
10243240	Baker Creek at narrows near Baker, Nevada	NE $\frac{1}{4}$ sec.22, T.13 N., R.69 E., at narrows 1,200 ft below Pole Canyon and about 5.2 miles southwest of Baker.	16.4	*1948-55 *1960-71	6-17-71	2.34	90
Raft River Basin							
13079000	Clear Creek near Naf, Idaho	SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.14 N., R.13 W., Box Elder County, 2 miles south of Utah-Idaho State line, and 3 miles south of Naf.	20.2	*1944-70	6-08-71 1971	2.05	400

* Operated as a continuous-record gaging station.

* Operated as a continuous-record gaging station; only annual peaks published.

a Approximately

b Discharge not determined

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 9 Green River Basin						
Antelope Canyon at mouth	Duchesne River	Lat 40°08'10", long 110°12'30", in NE½SE½SW½, sec.10, T.4 S., R.3 W., at Gray Mountain Canal and road crossing, and 0.9 miles upstream from bridge of U.S. 40, 10.2 miles east of Duchesne.	221	-	11-16-70 12-01-70 1-12-71 2-05-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	0 0 0 0 0 0 0 0 0 0 0
Antelope Creek at road crossing	Duchesne River	Lat 40°04'53", long 110°15'45", in SW½NE½NW½NE½, sec.6, T.5 S., R.3 W., at road crossing, and 0.4 mile downstream from mouth of Sowers Creek on Antelope Creek, 9.3 miles southeast of Duchesne.	201	-	11-16-70 12-01-70 1-12-71 2-25-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	2.36 2.31 2.16 2.23 2.04 2.54 1.79 2.02 .91 .91 1.17
Brundage Canyon at mouth	Duchesne River	Lat 40°03'30", long 110°19'10", in SE½NW½SW½SE½, sec.10, T.5 S., R.4 W., 190 ft upstream from mouth and 3.7 miles upstream from mouth of Sowers Creek on Antelope Creek, 8.5 miles southeast of Duchesne.	14.3	-	11-16-70 12-01-70 1-12-71 2-05-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	0 0 0 0 0 0 0 0 0 0 0
Center Fork Whiterocks River	Whiterocks	Lat 40°44'49", long 110°01'44", in SW½SW½NW½NW½, sec.17, T.4 N., R.1 W., 1.7 miles upstream from mouth of Johnson Creek and 1.9 miles upstream from mouth of Center Fork Whiterocks River on Whiterocks River, 20 miles North-northwest of Whiterocks, Utah.	1.92	-	10-16-70 11-06-70 6-09-71 7-15-71 8-19-71 9-20-71	1.44 .49 7.91 3.22 .70 .60
East Fork Rock Creek above mouth	Rock Creek	Lat 40°36'37", long 110°42'25", in Sec. 9, T.3 W., R.7 W., 400 ft upstream from mouth and 4.5 miles from South Fork, 14 miles north of Hanna.	18.9	-	10-12-70 6-01-71 6-24-71 7-27-71 9-21-71	15.0 60.7 216 24.9 10.6
Lake Fork above Ottoson Creek	Duchesne River	Lat 40°40'32", long 110°34'00", in NW½SE½NW½NE½, sec.9, T.3 N., R.6 W., 6.4 miles upstream from head of Moon Lake at maximum stage to confluence of Ottoson Creek and Lake Fork River, and 125 ft upriver from confluence. Approximately 21 air miles north-northwest of Mountain Home.	18.0	-	10-13-70 6-02-71 7-28-71 9-20-71	16.5 57.8 25.1 6.32
Nutters Canyon at mouth	Sowers Creek	Lat 40°03'41", long 110°17'17", in SW½SW½SE½NW½, Sec.12, T.5 S., R.4 W., 200 ft upstream from mouth and 1.9 miles upstream from mouth of Sowers Creek, on Antelope Creek, 9.2 miles southeast of Duchesne.	19.2	-	11-16-70 12-01-70 1-12-71 2-05-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	0 0 0 0 0 0 0 0 0 0 0
Ottoson Creek at mouth	Lake Fork	Lat 40°40'32", long 110°34'10", in SW½SW½NW½NE½, sec.9, T.3 N., R.6 W., 6.4 miles upstream from head of Moon Lake at maximum stage to confluence of Ottoson Creek and Lake Fork River and 875 ft upcreek from confluence. 21 miles north-northwest of Mountain Home.	6.5	-	10-13-70 6-02-71 6-25-71 7-28-71 9-20-71	4.96 15.8 106 10.6 2.95

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Discharge measurements made at miscellaneous sites during water year 1971--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 9 Green River Basin--Continued						
Reader Creek	West Fork White-rocks	Lat 40°46'13", long 110°01'20", in SW¼NE¼NE¼SW¼, Sec.5, T.4 N., R.1 W., 1.4 miles upstream from mouth of East Fork Whiterocks River on White-rocks River and 1.5 miles upstream from mouth of Reader Creek on Whiterocks River, 21 miles north-northwest of Whiterocks.	8.5	-	10-16-70 11-06-70 6-29-71 7-15-71 8-19-71 9-20-71	6.46 2.54 21.8 9.64 4.19 2.96
Rock Creek above East Fork	Duchesne River	Lat. 40°36'45", long 110°42'35", in T.3 N., R.7 W., 4.7 miles upstream from South Fork, 14.5 miles north of Hanna.	38.0	-	10-12-70 6-01-71 6-24-71 7-27-71 9-21-71	29.2 157 - 67.1 14.9
Rock Canyon at Mouth	Uinta River	Lat. 40°42'04", long 110°10'41", 8.9 miles upstream from diversion of Power Plant Canal and 200 feet upstream from mouth of Rock Canyon on Uinta River. 20 miles north-northwest of Neola.	5.50	-	10-15-70 6-25-71 7-30-71 9-18-71	2.02 25.2 3.25 1.78
Sowers Creek	Antelope Creek	Lat 40°03'12", long 110°23'21", in NE¼NW¼NE¼NE¼, Sec.13, T.5 S., R.5 W., 300 ft below mouth of Tabby Canyon and 7.9 miles upstream from confluence of Sowers Creek into Antelope Creek and 7.6 miles south of Duchesne.	80.5	-	11-16-70 12-01-70 1-12-71 2-05-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	.96 .58 .56 .73 .91 1.32 1.02 1.75 1.07 1.09 1.34
Swift Creek at mouth	Yellowstone Creek	Lat 40°36'12", long 110°20'34", in SW¼SW¼NW¼NE¼, Sec.4, T.2 N., R.4 W., 0.4 miles upstream from mouth and 2.4 miles upstream from reservoir on Yellowstone Creek, and 14.0 miles north-northwest of Altonah.	28.2	-	10-14-70 11-09-70 4-28-71 5-25-71 6-27-71 7-22-71 9-07-71	36.0 32.3 19.2 35.5 123 62.2 56.4
Tabby Canyon	Sowers Creek	Lat. 40°03'06", long 110°23'37", in NE¼SW¼NW¼NE¼, Sec.13, T.5 S., R.5 W., at bridge and 900 ft upstream from mouth and 8.1 miles upstream from mouth of Sowers Creek, 7.7 miles south of Duchesne.	18.2	-	11-16-70 12-01-70 1-12-71 2-05-71 3-04-71 4-09-71 5-10-71 6-16-71 7-16-71 8-04-71 9-17-71	0 0 0 0 0 0 0 0 0 0 0
Uinta River	Duchesne River	Lat. 40°37'56", long 110°09'32", in SE¼SE¼NW¼NW¼, Sec.30, T.3 N., R.2 W., 3.3 miles upstream from diversion of Power Plant Canal, and 15 miles northwest of Neola.	132	-	10-15-70 11-09-70 5-25-71 6-26-71 7-22-71 9-17-71	107 78.7 173 - 246 95.8
West Fork White-rocks	Whiterocks	Lat. 40°43'30", long 110°03'20", in T.4 N., R.2 W., .50 miles downstream from mouth of Johnson Creek and 3.1 miles upstream from confluence of Whiterocks River and West Fork Whiterocks, and 19 miles north-northwest of Whiterocks, Utah.	17.4	-	10-16-70 11-06-70 6-29-71 7-15-71 8-19-71 9-20-71	11.7 8.49 72.3 27.5 13.6 9.99
West Fork Rock Creek	Rock Creek	Lat. 40°35'39", long 110°42'42", in T.2 N., R.7 W., 1,700 ft upstream from mouth and 3.7 miles upstream from South Fork, and 13 miles north of Hanna.	30.2	-	10-12-70 6-01-71 6-24-71 7-27-71 9-21-71	10.9 - - 25.8 6.86
Yellowstone Creek above Garfield Creek	Lake Fork	Lat. 40°41'02", long 110°26'14", in SW¼NW¼NW¼SE¼, Sec.3, T.3 N., R.5 W., 0.5 miles upstream from mouth of Garfield Creek and 2.4 miles downstream from mouth of Milk Creek, and 20 miles north of Mountain Home.	23.6	-	10-14-70 6-03-71 6-27-71 7-29-71 9-19-71	12.1 45.8 - 30.2 13.5

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES--Continued

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Discharge measurements made at miscellaneous sites during water year 1971--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 9 Green River Basin--Continued						
Yellowstone Creek above Swift Creek	Lake Fork	Lat. 40°36'46", long 110°21'59", NW¼NW¼NE¼SW¼ sec.32, T.3 N., R.4 W., 1.5 miles upstream from mouth of Swift Creek and 3.9 miles upstream from reservoir on Yellowstone Creek, 14.9 miles NNW of Altonah.	69.9	-	10-14-70 11-09-70 4-28-71 5-25-71 6-27-71 7-22-71 9-07-71	37.5 29.8 28.1 97 574 127 64.6
Part 10 Bear River basin						
West Fork	Bear River	Lat. 40°51'16", long 110°55'10", in NW¼ sec.3, T.1 N., R.9 E., Summit County, 0.8 mile above Meadow Creek and 1.1 miles below Whitney Dam.	9.24	-	8-24-71	* 4.48
West Fork	Bear River	Lat 40°51'58", long 110°55'04", in W¼ sec.34, T.2 N., R.9 E., Summit County, just below Meadow Creek and 1.9 miles below Whitney Dam.	12.4	-	8-24-71	* 5.77
West Fork	Bear River	Lat. 40°52'58", long 110°54'28", in SE¼NE¼ sec.27, T.2 N., R.9 E., Summit County, just below Humpy Creek and 3.2 miles below Whitney Dam.	20.6	-	8-24-71	* 9.95
West Cache Canal	Distributary to Bear River	Lat. 41°59'10", long 111°57'14", in NE¼ sec.4, T.14 N., R.1 E., Cache County on downstream side of bridge on State Highway 23 and 0.7 mile north of Cornish.	-	1969-70	11-05-70	b 25.5
Bear River	Great Salt Lake	Lat. 41°58'32", long 111°56'11", in SW¼SE¼ sec.3, T.14 N., R.1 E., Cache County, on upstream side of bridge on State Highway 61, and 0.9 mile east of Cornish.	a4,500	1969-70	11-05-70 3-10-71	1,260 1,820
Cub River	Bear River	Lat. 42°00'50", long 111°49'10", in NE¼NE¼ sec.30, T.16 S., R.40 E., Franklin County, 1 mile north of Idaho-Utah State line, 1 mile west of Franklin, Idaho and 1.5 miles downstream from Maple Creek.	81.6	1969-70	3-10-71 5-25-71	b 56.2 b443
Salt Creek	Bear River	Lat. 41°39'19", long 112°05'22", in SE¼SW¼SE¼ sec.29, T.11 N., R.2 W., Box Elder County, at mouth of culvert under Union Pacific Railroad, 0.5 mile below Crystal Springs, and 1 mile north of Honeyville.	-	-	7-15-71	9.06
Salt Creek	Bear River	Lat. 41°38'06", long 112°05'15", in NW¼SE¼NE¼ sec.5, T.10 N., R.2 W., Box Elder County, 75 ft upstream from county highway, and 0.5 mile west of Honeyville.	-	-	7-15-71	18.3
Salt Creek	Bear River	Lat. 41°36'18", long 112°05'02", in SE¼SE¼NE¼ sec.17, T.10 N., R.2 W., Box Elder County, 30 ft above culvert on Calls Fort road and 2.3 miles south of Honeyville.	-	-	7-15-71	21.2
Salt Creek	Bear River	Lat. 41°35'35", long 112°05'09", in NE¼SE¼NE¼ sec.20, T.10 N., R.2 W., Box Elder County, 100 ft below county road bridge and Hammond West Branch Canal flume, and 2.5 miles south-east of Bear River City, Utah.	-	-	7-15-71	19.4
Black Slough	Bear River	Lat. 41°32'02", long 112°03'30", in NW¼SE¼NW¼ sec.10, T.9 N., R.2 W., in Box Elder County, at bridge on U.S. Highway 30, 3 miles northwest of Brigham City, Utah.	-	1964	2-16-71 4-01-71 4-22-71 6-15-71 7-02-71 8-26-71	24.6 * 18.6 * 18.5 24.2 * 7.22 * 12.3
Bear River	Great Salt Lake	Lat. 41°28'49", long 112°15'50", in NE¼ sec.35, T.9 N., R.4 W., Box Elder County, 800 ft upstream from headquarters of Bear River Migratory Bird Refuge and 13.2 miles west of Brigham City.	a7,000	1969-70	11-06-70 3-10-71 5-24-71 8-20-71	b 664 b 1,260 b 3,100 b 749
Sulphur Creek	Bear River	SW¼SE¼NE¼ sec.30, T.10 N., R.3 W., Box Elder County, at bridge on State Highway 83, 6 miles northwest of Corinne, Utah.	-	1964	3-25-71	51.9

See footnotes at end of table, p. 287

DISCHARGE MEASUREMENTS AT MISCELLANEOUS SITES--CONTINUED

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Discharge measurements made at miscellaneous sites during water year 1971--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 10 Jordan River Basin						
Diamond Fork below Red Hollow near Thistle	Spanish Fork	Lat. 40°04'40", long 111°24'00", NW¼ sec.32, T. 8 S., R.5 E., on right bank, 0.5 miles downstream from Red Hollow, 7.2 miles upstream from mouth and 8 miles NE of Thistle.	-	-	5-24-71	122
Big Cottonwood Creek	Jordan River	Lat. 40°39'22", long 111°49'24", NW¼NW¼SW¼SE¼, Sec.10, T.2 S., R.1 E., at Cottonwood Lane, 0.3 miles upstream from Jordan and Salt Lake City Canal and 2.1 miles downstream from upper canal. Eight miles southeast of Salt Lake City.	57.3	-	5-06-70	76.6
					5-27-70	259
					7-02-70	47.9
					7-17-70	1.89
					7-24-70	5.59
					9-02-70	1.91
					4-30-71	59.3
					6-01-71	152
Jordan River at 4th North	Great Salt Lake	Lat. 40°46'49", long 111°56'16", SW¼SW¼NW¼NE¼, sec.34, T.1 N., R.1 W., 10 feet downstream from bridge at 4th north street (500 north) and 1.3 miles downstream from bridge at North Temple Street (100 North).	3,550 (approx.)		6-22-71	184
					7-30-70	212
					9-02-70	198
					10-05-70	56.1
Little Cottonwood Creek at 2050 East	Jordan River	Lat. 40°36'29", long 111°49'51", SE¼NW¼NW¼NW¼, sec.34, T.2 S., R.1 E., 100 ft upstream from bridge on State Highway 210, 0.5 miles downstream from Union and East Jordan Ditch and 208 ft upstream from 2000 East Street, 11 miles southeast of Salt Lake City.	35.2	-	7-02-70	28.9
					7-16-70	16.7
					7-24-70	31.6
					9-02-70	.10
					4-30-70	0
					6-01-71	64.6
					6-09-71	155
Red Butte Creek at 1600 East	Jordan River	Lat. 40°44'50", long 111°50'40", SW¼NE¼NE¼SW¼, sec.9, T.1 S., R.1 E., 0.9 miles downstream from Mt. Olivet Ditch and 0.5 miles upstream from 1300 East Street.	9.22	-	4-27-70	6.35
					7-01-70	2.27
					7-13-70	.70
					7-24-70	.42
					8-05-70	.0
					9-02-70	.0
					10-07-70	.97
					4-19-71	19.1
					4-19-71	18.3
Great Salt Lake Desert						
Fish Springs	Great Salt Lake Desert	Lat. 39°51'15", long 113°24'45", in SE¼SE¼ sec. 3, T.11 S., R.14 W., at road crossing of North Spring Outlet in Fish Springs National Wildlife Refuge 17 miles east of Callao.	-	1970	10-13-70	3.07
					4-26-71	2.89
Tributaries between Great Salt Lake Desert and Bear River						
Pine Creek	Grouse Creek	NE¼NW¼ sec.29, T.12 N., R.17 W., Box Elder County, 0.5 mile above Pine Creek Dam, about .6 mile below unnamed tributary, and about 4 miles northeast of Grouse Creek.	-	-	8-06-71	* 2.89

a Approximately

b Chemical analysis published in Part 2 of this report.

* Base flow

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