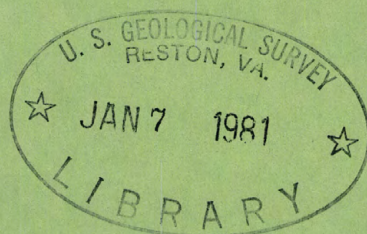


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pt. 1

Water Resources Data for Wyoming

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

CALENDAR FOR WATER YEAR 1972

OCTOBER 1971

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1972

Water Resources Data for Wyoming

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

**Prepared in cooperation with the State of Wyoming
and with other agencies**

Prepared in cooperation with

Office of the Wyoming State Engineer
Wyoming Highway Department
Wyoming Department of Economic Planning and Development
Wyoming State Department of Agriculture
City of Cheyenne, Board of Public Utilities
Bureau of Reclamation, U. S. Department of the Interior
Bureau of Land Management, U. S. Department of the Interior
Corps of Engineers, U. S. Army
National Park Service, U. S. Department of the Interior

Water resources records, 1972, for Wyoming are in the following reports of the U. S. Geological Survey:

1. Water Resources Data for Wyoming
Part 1: Surface-Water Records
2. Water Resources Data for Wyoming
Part 2: Water-Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U. S. Geological Survey
215 East Eighth Avenue
P. O. Box 2087
Cheyenne, Wyoming 82001

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WATER RESOURCES DATA FOR WYOMING, 1972

PART 1. SURFACE-WATER RECORDS

by F. C. Boner and K. G. Polinoski

INTRODUCTION

Surface-water records for the 1972 water year for Wyoming, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. The locations of the gaging stations and partial-record stations are shown in figures 1 and 2. Records for a few pertinent gaging stations in bordering States also are included. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Robert L. Cushman, district chief. Wyoming district personnel who contributed significantly to the collection and preparation of data included in this report were: S. A. Druse, D. J. O'Connell, G. S. Craig, Jr., G. W. Armentrout, Jr., H. W. Lowham, B. H. Ringen, P. B. McCollam, C. F. Obert, W. R. Glass, T. W. Custis, R. L. Muench, J. O. Ragsdale, M. D. Stevens, J. M. Johnson, and J. L. Lynch.

Through September 30, 1960, the records of discharge and stage of streams and canals, 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."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. Records of discharge and reservoir storage for 1961-65 have been published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65." Records of discharge and reservoir storage for 1966-70 also will be published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1966-70."

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of surface-water records since 1895. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Office of the State Engineer, Floyd A. Bishop

Wyoming Highway Department, William G. Lucas, superintendent

Wyoming Department of Economic Planning and Development,
Myron W. Goodson, Chief of Water Development

Wyoming State Department of Agriculture, Glenn J. Hertzler, Jr.,
commissioner

City of Cheyenne, Board of Public Utilities, Ray L. Sherard,
superintendent

Assistance in the form of funds or services was given by the Bureau of Reclamation and by the Bureau of Land Management, Department of the Interior, by the Corps of Engineers, U.S. Army, and by the National Park Service, Department of the Interior, in collecting data published in the report. Funds and services were also provided by the Missouri River Basin Program.

The following organization aided in collecting records:

Western Ore Operations, United States Steel Corporation

Organizations assisting with collection of records for stations operated by other than the Wyoming district are acknowledged in the respective state reports for those districts.

DEFINITION OF TERMS

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

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

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

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.HT.) 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.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

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

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

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 06320500, includes the part number "06" and a 6-digit station number. This complete station number appears just to the left of the station name. In this report, the records are listed in downstream order by parts. 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 base data collected at gaging stations consists of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a

tape punched at 15- or 30-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station 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, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table 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 engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

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

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

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

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

contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, the 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. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN.") or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

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.

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

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are 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 and 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 records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special conditions.

Accuracy of Data

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; 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.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

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. The series of water-supply papers containing surface-water records for the 5-year periods October 1, 1960, to September 30, 1965, and October 1, 1965, to September 30, 1970, also include lists of annual and special reports published as water-supply papers.

Records through September 1950 for Wyoming have been compiled and published in Water-Supply Papers 1309, 1310, 1313, 1314, and 1317; records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1729, 1730, 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.

Wyoming streamflow records for October 1960 to September 1965 have been published in Water-Supply Papers 1916, 1917, 1918, 1925, 1927, and 1934. Records for October 1965 to September 1970 will be published in Water-Supply Papers 2116, 2117, 2118, 2125, 2127, and 2134. These reports contain values of daily discharge, summaries of monthly and annual discharge, and monthend storage for all records previously published in the annual series of State reports. All records were re-examined and revised where warranted.

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 partial-record stations and at miscellaneous sites are given in two tables following the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in Wyoming through 1967 have been analyzed to give several statistical summaries: (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, and on the sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

HYDROLOGIC CONDITIONS

Streamflow during the 1972 water year was well above average in the Green, Bear, Snake, Sweetwater, upper Wind, and upper Yellowstone River basins. Average or below average runoff was recorded in the Little Snake, North Platte, Cheyenne, Belle Fourche, Powder, Tongue, and lower Bighorn River basins.

Flow in most of the larger streams was above average at the beginning of the water year and declined to near or below average by April. Below average temperatures over most of the State during April and early May delayed the spring snowmelt, and above average temperatures in late May and June caused high runoff from the above average snowpack. Record high peaks were recorded at several gaging stations in the Green River and Wind River basins.

Reservoir storage in the upper Yellowstone River basin decreased 52,000 acre-feet during the year. Storage in Keyhole Reservoir, on the Belle Fourche River, increased 17,100 acre-feet during the year and reached a record high level. In the North Platte River basin, storage in the major reservoirs decreased 215,600 acre-feet. Storage in the Green River basin increased 549,800 acre-feet, and Flaming Gorge Reservoir reached a record high level.

SELECTED REFERENCES

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

MISSOURI RIVER BASIN

MADISON RIVER BASIN

06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MONT.

LOCATION.--Lat 44°39'24", long 111°04'00", in SW¼ sec.36, T.13 S., R.5 E., (unsurveyed), Yellowstone National Park, on left bank 0.3 mile upstream from Riverside ranger station, 1.6 miles east of West Yellowstone and west boundary of Yellowstone National Park, 12.5 miles downstream from confluence of Firehole and Gibbon Rivers, and at mile 120.

DRAINAGE AREA.--420 sq mi.

PERIOD OF RECORD.--June 1913 to December 1917, July 1918 to October 1921, June 1922 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (from topographic map). Prior to Oct. 20, 1918, nonrecording gage, and Oct. 20, 1918, to June 29, 1930, nonrecording gage or water-stage recorder, at sites 2.5 miles upstream at different datums. Supplementary nonrecording gage at site 0.3 mile downstream at different datum used at times during 1927-30.

AVERAGE DISCHARGE.--57 years (1913-17, 1918-21, 1922-72), 488 cfs (15.78 inches per year, 353,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,810 cfs June 3 (gage height, 3.33 ft); minimum, 406 cfs Feb. 2. Period of record: Maximum discharge, 2,150 cfs May 24, 1956 (gage height, 3.44 ft); maximum gage height, about 10.0 ft Jan. 8, 1937 (ice jam); minimum discharge, 100 cfs (estimated) Feb. 7, 1933.

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

REVISIONS (WATER YEARS).--WSP 1439: 1942. WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	583	495	448	455	455	479	441	567	1,660	815	607	600
2	583	495	441	463	441	471	441	543	1,690	805	607	580
3	583	487	455	448	445	471	427	567	1,720	777	607	560
4	583	495	455	441	448	455	427	624	1,680	750	583	540
5	591	487	463	455	455	463	441	687	1,540	732	575	540
6	583	471	479	463	455	455	535	750	1,500	732	567	850
7	575	471	471	471	448	448	519	815	1,460	732	567	795
8	559	471	448	471	455	434	479	865	1,460	714	559	624
9	535	471	463	455	463	441	455	805	1,380	696	559	583
10	535	463	471	455	455	463	441	795	1,340	678	543	615
11	527	463	471	463	455	495	463	768	1,370	669	559	696
12	519	471	471	455	455	479	463	759	1,290	660	559	599
13	511	495	471	455	463	471	471	786	1,190	651	559	567
14	551	487	463	455	463	479	455	895	1,140	642	591	559
15	559	479	471	455	463	463	448	1,030	1,130	633	599	543
16	543	463	455	455	471	471	448	1,150	1,130	624	583	527
17	543	455	455	463	471	495	448	1,320	1,140	624	575	519
18	551	448	455	463	471	511	441	1,400	1,160	615	567	511
19	543	448	455	471	471	519	434	1,410	1,100	615	559	551
20	527	455	455	471	463	487	441	1,390	1,020	633	567	633
21	527	463	455	479	463	471	441	1,400	995	741	567	551
22	519	463	479	479	479	471	463	1,320	965	714	559	535
23	511	455	495	479	479	511	448	1,190	1,080	651	567	519
24	511	455	471	463	479	487	463	1,180	1,370	624	583	527
25	503	471	487	463	471	487	519	1,220	1,060	615	575	527
26	495	455	503	463	463	471	503	1,120	1,040	607	567	527
27	519	463	471	448	471	448	511	1,150	1,010	607	551	607
28	495	463	455	441	487	441	559	1,260	875	607	543	795
29	479	463	471	448	495	434	633	1,360	835	591	543	615
30	487	455	463	448	-----	434	607	1,450	835	583	650	591
31	487	-----	463	448	-----	434	-----	1,580	-----	591	620	-----
TOTAL	16,617	14,076	14,429	14,242	13,453	14,539	14,265	32,156	37,165	20,728	17,817	17,786
MEAN	536	469	465	459	464	469	476	1,037	1,239	669	575	593
MAX	591	495	503	479	495	519	633	1,580	1,720	815	650	850
MIN	479	448	441	441	441	434	427	543	835	583	543	511
CFSM	1.28	1.12	1.11	1.09	1.10	1.12	1.13	2.47	2.95	1.59	1.37	1.41
IN.	1.47	1.25	1.28	1.26	1.19	1.29	1.26	2.85	3.29	1.84	1.58	1.58
AC-FT	32,960	27,920	28,620	28,250	26,680	28,840	28,290	63,780	73,720	41,110	35,340	35,280
CAL YR 1971	TOTAL 239,127		MEAN 655	MAX 2,000	MIN 434	CFSM 1.56	IN 21.18	AC-FT 474,300				
WTR YR 1972	TOTAL 227,273		MEAN 621	MAX 1,720	MIN 427	CFSM 1.48	IN 20.13	AC-FT 450,800				

PEAK DISCHARGE (BASE, 950 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-18	1100	3.07	1,470
6- 3	1100	3.33	1,810
6-24	0800	3.02	1,450

GALLATIN RIVER BASIN

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06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MONT.

LOCATION.--Lat 45°29'51", long 111°16'09", in SE¼SE¼SE¼ sec.7, T.4 S., R.4 E., Gallatin County, on left bank 0.3 mile downstream from Spanish Creek, 7.3 miles south of Gallatin Gateway, and at mile 42.5.

DRAINAGE AREA.--825 sq mi.

PERIOD OF RECORD.--August 1889 to September 1894, June 1930 to September 1969, annual maximum, water years 1970-71, October 1971 to September 1972. Monthly discharge only for some periods, published in WSP 1309. Published as West Gallatin River near Bozeman 1889-94.

GAGE.--Water-stage recorder. Datum of gage is 5,167.7 ft above mean sea level. Prior to Oct. 20, 1932, non-recording gages at several different sites and datums within 0.8 mile of present site.

AVERAGE DISCHARGE.--45 years, 795 cfs (575,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,030 cfs June 8 (gage height, 5.33 ft); minimum, 277 cfs Dec. 8. Period of record: Maximum discharge observed, 9,270 cfs June 27, 1971 (gage height, 6.49 ft), from rating curve extended above 6,000 cfs; minimum, 117 cfs Jan. 19, 1935 (gage height, 0.68 ft).

REMARKS.--Records good. Diversions for irrigation of about 1,400 acres above station.

REVISIONS (WATER YEARS).--WSP 1389: 1892(M), 1893-94. WSP 1559: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	643	535	384	413	401	362	419	643	4,530	2,370	904	580
2	636	515	379	413	401	368	437	636	4,960	2,190	882	566
3	629	515	431	373	401	368	407	643	5,000	1,940	844	553
4	643	522	437	362	407	351	419	762	4,920	1,790	792	541
5	682	515	425	390	431	368	443	802	4,820	1,730	762	540
6	674	455	425	390	395	390	497	855	5,020	1,750	737	650
7	674	485	379	401	384	362	515	927	5,540	1,760	719	616
8	643	509	305	401	379	368	473	999	5,440	1,660	706	562
9	622	497	351	395	384	390	461	1,030	5,180	1,590	690	543
10	615	503	346	395	357	419	455	1,110	4,930	1,490	684	595
11	608	503	379	401	351	449	455	1,050	4,740	1,420	680	759
12	594	509	373	413	368	425	473	1,020	4,200	1,350	670	682
13	580	515	395	390	373	443	461	1,030	3,660	1,330	661	612
14	587	497	384	401	368	467	443	1,310	3,360	1,300	748	579
15	601	491	379	407	368	443	443	1,750	3,390	1,230	718	560
16	594	479	373	395	373	449	455	2,170	3,220	1,170	681	549
17	594	485	379	401	368	491	455	2,810	3,580	1,130	644	547
18	608	443	379	413	373	515	437	2,950	3,500	1,100	626	532
19	580	473	401	413	373	548	407	2,810	3,310	1,110	619	573
20	574	479	390	413	379	509	437	2,780	2,850	1,120	616	708
21	587	467	390	419	384	479	449	2,800	2,860	1,130	611	598
22	567	485	395	413	373	479	449	2,400	2,640	1,090	602	596
23	567	443	413	407	368	541	437	2,170	3,170	1,000	713	598
24	574	485	401	395	362	485	479	2,050	3,740	961	729	584
25	561	479	425	351	362	497	567	2,010	3,350	939	665	583
26	554	449	390	315	357	443	522	1,830	2,970	930	635	564
27	548	485	379	346	368	437	535	1,890	2,710	913	600	643
28	455	467	373	362	390	419	629	2,300	2,470	897	580	630
29	384	467	384	413	401	413	794	2,820	2,450	858	570	580
30	443	467	419	395	-----	443	738	3,450	2,480	835	620	587
31	522	-----	425	401	-----	425	-----	4,130	-----	878	611	-----
TOTAL	18,143	14,619	12,088	12,197	10,999	13,546	14,591	55,937	114,990	40,961	21,319	17,810
MEAN	585	487	390	393	379	437	486	1,804	3,833	1,321	688	594
MAX	682	535	437	419	431	548	794	4,130	5,540	2,370	904	759
MIN	384	443	305	315	351	351	407	636	2,450	835	570	532
AC-FT	35,990	29,000	23,980	24,190	21,820	26,870	28,940	111,000	228,100	81,250	42,290	35,330
WTR YR 1972	TOTAL 347,200		MEAN 949		MAX 5,540		MIN 305		AC-FT 688,700			

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-18	0215	4.01	3,250
6- 8	0045	5.33	6,030
6-24	0415	4.49	4,170

LOCATION.--Lat 44°32'00", long 110°26'20", Yellowstone National Park, at marina at Bridge Bay, 3.7 miles south-west of lake outlet.

PERIOD OF RECORD.--October 1921 to current year. Prior to October 1966, published as Yellowstone Lake at Lake Hotel.

EXTREMES.--Current year: Maximum gage height observed, 6.38 ft June 24; minimum observed, 1.52 ft Dec. 11.
Period of record: Maximum gage height observed, 7.06 ft June 30, 1971; minimum observed, -0.1 ft Dec. 7, 1931.

REVISIONS.--WSP 1916: Drainage area.

[illegible]

YELLOWSTONE RIVER BASIN

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06186500 YELLOWSTONE RIVER AT YELLOWSTONE LAKE OUTLET, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°34'03", long 110°22'48", Yellowstone National Park, on left bank 450 ft downstream from Fishing Bridge, 0.2 mile downstream from outlet of Yellowstone Lake, and at mile 594.8.

DRAINAGE AREA.--1,006 sq mi.

PERIOD OF RECORD.--December 1922 to current year (prior to October 1926, gage heights only). Monthly discharge only for winter periods in water years 1927-30, 1932-33, 1935-38, 1940, 1942-46, published in WSP 1309; figures of daily discharge for these months published in WSP 646, 666, 686, 701, 731, 746, 786, 806, 826, 856, 896, 956, 976, 1006, 1036, and 1056, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 7,727.77 ft above mean sea level. Prior to Oct. 2, 1928, non-recording gage at site 450 ft upstream at datum 1.07 ft higher.

AVERAGE DISCHARGE.--46 years (1926-72), 1,322 cfs (17.85 inches per year, 957,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,910 cfs June 24 (gage height, 7.25 ft); minimum daily, 490 cfs Feb. 23 to Mar. 4.

Period of record: Maximum discharge, 8,250 cfs June 28, 1971 (gage height, 7.95 ft); minimum daily, 130 cfs Mar. 1-31, 1935, but may have been less during periods of ice effect; minimum gage height, 1.45 ft Dec. 17, 1936.

REMARKS.--Records good except those for winter period, which are poor. No artificial regulation.

REVISIONS (WATER YEARS).--WSP 1309: See PERIOD OF RECORD. WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,340	938	704	610	500	490	860	756	2,570	6,530	3,490	1,940
2	1,350	910	692	600	500	490	861	744	2,890	6,440	3,440	1,940
3	1,330	889	687	600	530	490	868	744	3,180	6,380	3,380	1,880
4	1,320	889	682	600	520	490	847	744	3,490	6,230	3,310	1,850
5	1,300	854	621	600	520	500	840	750	3,790	6,110	3,220	1,830
6	1,270	834	680	600	520	500	847	756	4,110	6,020	3,160	1,910
7	1,260	822	690	590	510	500	847	792	4,420	5,900	3,060	1,880
8	1,250	816	690	590	510	500	828	816	4,750	5,800	2,990	1,850
9	1,230	804	680	590	510	510	822	834	5,070	5,720	2,920	1,870
10	1,220	792	680	590	500	520	816	847	5,400	5,620	2,840	1,840
11	1,200	786	670	580	500	540	810	861	5,700	5,520	2,770	1,850
12	1,180	774	660	580	500	560	816	868	5,940	5,400	2,730	1,830
13	1,180	786	660	580	500	590	816	875	6,150	5,300	2,680	1,800
14	1,170	774	650	580	500	620	816	903	6,280	5,190	2,660	1,770
15	1,140	774	640	580	500	650	804	938	6,380	5,040	2,630	1,760
16	1,110	762	640	580	500	680	798	980	6,490	4,940	2,610	1,720
17	1,100	750	630	570	500	700	786	1,050	6,590	4,810	2,560	1,700
18	1,120	750	630	570	500	720	780	1,130	6,700	4,690	2,490	1,650
19	1,100	738	630	570	500	740	780	1,210	6,800	4,560	2,480	1,660
20	1,090	732	620	560	500	760	768	1,300	6,840	4,490	2,420	1,610
21	1,060	726	620	560	500	780	768	1,390	6,820	4,470	2,370	1,560
22	1,050	714	620	560	500	790	768	1,490	6,760	4,420	2,330	1,540
23	1,030	709	620	560	490	800	756	1,560	6,820	4,290	2,310	1,520
24	1,020	714	620	550	490	810	750	1,580	6,880	4,200	2,260	1,480
25	1,020	732	620	550	490	820	744	1,590	6,860	4,110	2,240	1,440
26	1,000	732	620	550	490	840	762	1,650	6,800	4,000	2,180	1,440
27	1,000	726	620	540	490	860	756	1,760	6,780	3,910	2,120	1,440
28	980	726	620	540	490	880	756	1,870	6,700	3,810	2,090	1,450
29	966	720	610	540	490	870	756	1,970	6,590	3,740	2,050	1,430
30	952	709	610	540	-----	870	750	2,110	6,570	3,640	2,010	1,420
31	938	-----	610	530	-----	860	-----	2,320	-----	3,570	1,980	-----
TOTAL	35,276	23,382	20,026	17,740	14,610	20,730	23,976	37,188	171,120	154,850	81,780	50,860
MEAN	1,138	779	646	572	504	669	799	1,200	5,704	4,995	2,638	1,695
MAX	1,350	938	704	610	530	880	868	2,320	6,880	6,530	3,490	1,940
MIN	938	709	610	530	490	490	744	744	2,570	3,570	1,980	1,420
CFSM	1.13	.77	.64	.57	.50	.67	.79	1.19	5.67	4.97	2.62	1.68
IN.	1.30	.86	.74	.66	.54	.77	.89	1.38	6.33	5.73	3.02	1.88
AC-FT	69,970	46,380	39,720	35,190	28,980	41,120	47,560	73,760	339,400	307,100	162,200	100,900

CAL YR 1971 TOTAL 713,400 MEAN 1,955 MAX 8,140 MIN 600 CFSM 1.94 IN 26.38 AC-FT 1,415,000
WTR YR 1972 TOTAL 651,538 MEAN 1,780 MAX 6,880 MIN 490 CFSM 1.77 IN 24.09 AC-FT 1,292,000

NOTE.--Stage-discharge relation affected by ice Dec. 6 to Apr. 1.

YELLOWSTONE RIVER BASIN

06191000 GARDNER RIVER NEAR MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°59'35", long 110°41'25", Park County, Yellowstone National Park, on left bank at Wyoming-Montana State line, 400 ft upstream from highway bridge, 0.5 mile downstream from Hot River (formerly Boiling River), 1.5 miles north of Mammoth, and 3 miles upstream from mouth.

DRAINAGE AREA.--202 sq mi.

PERIOD OF RECORD.--October 1938 to September 1972 (discontinued). Prior to October 1959, published as Gardiner River near Mammoth.

GAGE.--Water-stage recorder. Altitude of gage is 5,620 ft (from topographic map).

AVERAGE DISCHARGE.--34 years, 220 cfs (14.79 inches per year, 159,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,940 cfs June 8 (gage height, 4.44 ft, from floodmark); minimum, 73 cfs Dec. 2 (gage height, 1.81 ft), but may have been less during period of no gage-height record.
Period of record: Maximum discharge, 2,080 cfs June 4, 1956 (gage height, 4.46 ft); maximum gage height, 4.78 ft June 16, 1962 (backwater from log and debris); minimum discharge, 35 cfs Mar. 28, 1942 (gage height, 1.08 ft).

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

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	145	114	117	97	96	105	179	1,340	818	285	171
2	163	131	90	120	95	96	105	191	1,540	767	285	171
3	167	141	131	99	97	99	99	211	1,650	699	289	167
4	179	145	117	97	99	96	102	249	1,590	649	267	159
5	183	141	117	95	102	99	108	289	1,600	617	249	171
6	179	131	124	100	111	102	134	335	1,650	633	235	240
7	175	138	108	105	111	96	127	340	1,700	601	231	207
8	163	138	93	117	108	99	117	340	1,800	569	227	179
9	159	138	120	114	102	102	111	325	1,750	537	219	175
10	159	134	127	111	90	105	111	365	1,700	505	215	203
11	155	138	127	114	102	108	114	370	1,600	484	215	227
12	155	141	127	114	105	108	111	355	1,500	456	211	191
13	155	145	127	108	96	108	111	411	1,400	442	211	175
14	163	141	120	114	96	108	111	561	1,300	429	240	171
15	155	138	124	117	99	105	111	742	1,250	405	231	163
16	159	134	120	120	99	111	111	869	1,200	387	219	159
17	155	127	124	120	99	117	108	980	1,300	365	207	155
18	163	108	127	114	102	120	108	1,010	1,400	345	203	155
19	159	131	124	120	99	127	105	1,010	1,300	365	199	171
20	155	134	117	120	99	120	108	980	1,200	375	199	179
21	152	134	120	117	96	117	111	954	1,150	393	195	167
22	152	131	124	114	96	117	111	852	1,100	375	199	163
23	152	127	120	117	93	124	108	793	1,150	325	215	163
24	152	131	120	117	99	117	120	818	1,200	303	207	159
25	148	134	124	108	96	117	134	759	1,050	289	187	163
26	148	127	120	93	93	111	138	682	900	280	175	159
27	145	134	114	96	90	105	145	733	852	280	171	235
28	124	131	93	111	99	99	167	835	835	271	167	211
29	117	131	124	117	99	99	191	929	835	258	167	183
30	127	124	120	105	-----	105	187	1,120	844	253	179	179
31	145	-----	117	100	-----	105	-----	1,190	-----	267	183	-----
TOTAL	4,830	4,023	3,674	3,431	2,869	3,338	3,629	19,777	39,686	13,742	6,682	5,371
MEAN	156	134	119	111	98.9	108	121	638	1,323	443	216	179
MAX	183	145	131	120	111	127	191	1,190	1,800	818	289	240
MIN	117	108	90	93	90	96	99	179	835	253	167	155
CFSM	.77	.66	.59	.55	.49	.53	.60	3.16	6.55	2.19	1.07	.89
IN.	.89	.74	.68	.63	.53	.61	.67	3.64	7.31	2.53	1.23	.99
AC-FT	9,580	7,980	7,290	6,810	5,690	6,620	7,200	39,230	78,720	27,260	13,250	10,650

CAL YR 1971 TOTAL 115,157 MEAN 315 MAX 1,570 MIN 77 CFSM 1.56 IN 21.21 AC-FT 228,400
WTR YR 1972 TOTAL 111,052 MEAN 303 MAX 1,800 MIN 90 CFSM 1.50 IN 20.45 AC-FT 220,300

PEAK DISCHARGE (BASE, 700 CFS)

NOTE.--No gage-height record June 5-22.

DATE	TIME	G.HT.	DISCHARGE
5-17	2215	3.53	1,120
6- 8	--	4.44	1,940

YELLOWSTONE RIVER BASIN

17

06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MONT.

LOCATION.--Lat 45°06'43", long 110°47'37", in SE¼NW¼ sec.30, T.8 S., R.8 E., Park County, on left bank 20 ft downstream from highway bridge at Corwin Springs, 1.3 miles upstream from Mol Herron Creek, 7 miles north-west of Gardiner, and at mile 530.5.

DRAINAGE AREA.--2,623 sq mi.

PERIOD OF RECORD.--August 1889 to November 1893 (published as "at Horr"), September 1910 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 5,079.09 ft above mean sea level. Aug. 12, 1889, to Nov. 4, 1893, nonrecording gages at site 2 miles upstream at different datums. Sept. 2, 1910, to Apr. 19, 1935, nonrecording gages on bridge at present datum.

AVERAGE DISCHARGE.--66 years, 3,108 cfs (16.09 inches per year, 2,252,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,100 cfs June 8 (gage height, 9.26 ft); minimum daily, 750 cfs Dec. 8.
Period of record: Maximum discharge observed, 32,000 cfs June 14, 15, 1918 (gage height, 11.5 ft), from rating curve extended above 18,000 cfs; minimum observed, 389 cfs Feb. 23, Mar. 5, 9, 1937 (gage height, 0.05 ft).

REMARKS.--Records good. Natural storage in Yellowstone Lake. Diversions for irrigation of about 960 acres, of which 40 acres lies below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1912. WSP 1509: 1889-94, 1911, 1913, 1916-18, 1920-21, 1925, 1927. WSP 1559: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,120	1,630	1,220	950	938	802	1,460	2,080	17,200	12,400	5,130	2,820
2	2,090	1,550	1,130	900	916	789	1,490	2,040	19,000	11,900	4,910	2,760
3	2,090	1,570	1,100	850	950	815	1,360	2,140	19,500	10,800	4,760	2,710
4	2,100	1,570	1,100	800	950	789	1,430	2,480	19,000	10,200	4,570	2,620
5	2,140	1,560	1,050	850	895	815	1,490	2,740	20,200	9,950	4,440	2,580
6	2,190	1,450	940	920	867	834	1,590	3,280	20,300	9,790	4,300	3,370
7	2,170	1,460	830	980	834	808	1,670	3,540	20,900	9,610	4,180	3,490
8	2,080	1,480	750	970	828	834	1,620	3,630	21,900	9,460	4,080	3,140
9	2,710	1,450	800	950	834	847	1,540	3,390	21,400	9,220	3,980	2,890
10	1,970	1,440	950	920	795	895	1,500	3,610	20,500	8,870	3,910	3,080
11	1,940	1,440	1,020	880	815	986	1,510	3,540	20,900	8,560	3,790	3,520
12	1,910	1,460	1,040	840	815	1,010	1,510	3,350	19,800	8,340	3,740	3,170
13	1,860	1,470	1,050	800	815	1,070	1,510	3,400	18,000	8,150	3,700	2,950
14	1,920	1,440	1,050	830	795	1,190	1,440	4,550	16,500	8,040	3,850	2,850
15	1,920	1,440	1,040	880	808	1,250	1,480	6,210	16,800	7,610	3,870	2,740
16	1,950	1,420	1,030	920	802	1,320	1,530	7,970	16,300	7,320	3,700	2,670
17	1,820	1,380	1,010	950	795	1,420	1,540	9,520	17,300	7,080	3,560	2,600
18	1,850	1,270	1,030	970	808	1,490	1,530	9,920	17,600	6,820	3,440	2,530
19	1,840	1,360	1,330	990	795	1,570	1,420	9,640	16,300	6,670	3,370	2,510
20	1,820	1,390	994	1,000	795	1,550	1,480	9,020	14,700	6,570	3,400	2,670
21	1,790	1,380	902	950	802	1,550	1,520	9,960	14,100	7,210	3,320	2,510
22	1,770	1,350	888	900	802	1,550	1,560	8,760	13,800	6,700	3,280	2,440
23	1,710	1,330	986	870	802	1,680	1,500	7,640	14,900	6,220	3,350	2,390
24	1,730	1,330	946	841	802	1,570	1,540	7,370	16,700	6,000	3,320	2,370
25	1,700	1,360	962	841	802	1,630	1,700	7,550	14,500	5,840	3,190	2,350
26	1,700	1,240	986	828	808	1,500	1,680	7,110	13,400	5,650	3,080	2,300
27	1,700	1,390	930	828	802	1,390	1,700	7,640	12,800	5,530	2,970	2,500
28	1,540	1,330	820	850	821	1,350	1,910	9,460	12,100	5,420	2,890	2,790
29	1,440	1,320	840	900	847	1,380	2,300	11,000	12,600	5,210	2,860	2,530
30	1,510	1,290	860	930	-----	1,470	2,300	13,100	12,800	5,060	2,920	2,480
31	1,590	-----	920	940	-----	1,500	-----	15,400	-----	5,020	2,950	-----
TOTAL	57,870	42,550	30,204	27,828	24,138	37,654	47,810	201,040	511,800	241,220	114,810	82,330
MEAN	1,867	1,418	974	898	832	1,215	1,594	6,485	17,060	7,781	3,704	2,744
MAX	2,190	1,630	1,220	1,000	950	1,680	2,300	15,400	21,900	12,400	5,130	3,520
MIN	1,440	1,240	750	800	795	789	1,360	2,040	12,100	5,020	2,860	2,300
CFSM	.71	.54	.37	.34	.32	.46	.61	2.47	6.50	2.97	1.41	1.05
IN.	.82	.60	.43	.39	.34	.53	.68	2.85	7.26	3.42	1.63	1.17
AC-FT	114,800	84,400	59,910	55,200	47,880	74,690	94,830	398,800	,015M	478,500	227,700	163,300

CAL YR 1971 TOTAL 1,555,996 MEAN 4,263 MAX 23,500 MIN 750 CFSM 1.63 IN 22.07 AC-FT 3,086,000
WTR YR 1972 TOTAL 1,419,254 MEAN 3,878 MAX 21,900 MIN 750 CFSM 1.48 IN 20.13 AC-FT 2,815,000

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 8	0500	9.26	23,100

YELLOWSTONE RIVER BASIN

06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MONT.

LOCATION.--Lat 45°00'40", long 109°04'00", in E4NE4 sec.31, T.9 S., R.22 E., Carbon County, on left bank 0.4 mile upstream from county road bridge and Big Sand Coulee, 0.8 mile north of Wyoming-Montana State line, 9.5 miles southwest of Belfry, and at mile 78.5.

DRAINAGE AREA.--1,154 sq mi.

PERIOD OF RECORD.--July 1921 to current year. Monthly discharge only for some periods, published in WSP 1309. Published as Clarks Fork at Chance prior to October 1956 and as Clarks Fork Yellowstone River at Chance October 1956 to September 1968.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft (from topographic map). Prior to Nov. 15, 1934, nonrecording gage, and Nov. 15, 1934, to July 26, 1951, water-stage recorder at bridge 0.4 mile downstream at different datum. July 27, 1951, to Sept. 30, 1953, water-stage recorder at present site at datum 0.98 ft higher.

AVERAGE DISCHARGE.--51 years, 947 cfs (686,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 10,300 cfs June 9 (gage height, 8.14 ft); minimum, 193 cfs Feb. 26 (gage height, 1.13 ft).
Period of record: Maximum discharge observed, 10,900 cfs May 26, 1928 (gage height, 6.5 ft, site and datum then in use); minimum observed, 32 cfs Apr. 26, 1961, result of discharge measurement.

REMARKS.--Records good. Diversions for irrigation of about 11,100 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1922(M). WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	501	328	320	260	307	320	544	6,630	4,660	1,550	860
2	416	486	282	334	260	279	312	440	7,460	4,590	1,620	860
3	385	474	278	318	260	300	311	433	7,870	3,550	1,540	840
4	409	494	366	311	270	276	307	533	7,790	2,730	1,320	780
5	462	485	321	337	270	279	319	655	8,370	2,480	1,190	760
6	511	422	353	321	290	339	347	643	8,290	2,640	1,120	820
7	508	423	340	337	300	307	409	696	8,630	2,800	1,090	940
8	487	446	312	326	320	283	402	689	9,400	3,130	1,100	920
9	449	434	284	307	329	299	381	653	9,500	3,290	1,100	900
10	430	424	323	302	299	330	365	664	8,020	3,220	1,090	950
11	423	424	343	312	278	350	352	676	8,070	2,960	1,030	1,100
12	421	425	340	331	269	359	353	621	7,720	2,930	977	1,010
13	411	439	340	320	289	354	352	616	6,790	2,920	956	929
14	420	434	319	300	269	382	346	867	5,830	3,100	1,110	831
15	474	419	308	310	263	379	340	1,350	5,840	2,890	1,350	721
16	466	411	325	330	281	376	375	2,090	5,560	2,580	1,400	635
17	451	393	325	340	287	416	394	2,750	5,940	2,390	1,200	574
18	489	354	345	351	282	466	378	2,890	6,340	2,170	1,050	522
19	485	329	352	352	319	495	370	3,200	5,830	2,070	1,000	483
20	455	404	340	358	364	483	351	3,160	4,750	1,890	1,100	447
21	456	403	338	368	362	441	359	3,540	4,240	2,180	1,000	429
22	455	383	349	337	301	428	395	3,330	4,020	1,900	1,050	411
23	429	379	359	327	287	458	381	2,800	4,360	1,600	1,600	391
24	428	368	340	321	274	469	366	2,460	5,010	1,470	1,500	398
25	424	381	340	300	264	412	437	2,420	4,340	1,420	1,300	399
26	406	370	310	270	245	392	469	2,260	3,640	1,440	1,250	398
27	427	378	280	230	303	348	418	2,340	3,100	1,500	1,200	401
28	365	379	280	250	364	314	485	2,950	2,820	1,450	1,100	563
29	373	365	290	280	370	307	633	3,630	3,560	1,410	1,000	521
30	343	361	300	290	-----	330	655	4,430	4,320	1,410	950	500
31	448	-----	310	280	-----	333	-----	5,550	-----	1,430	900	-----
TOTAL	13,507	12,388	10,020	9,770	8,529	11,291	11,682	59,880	184,040	76,200	36,743	20,293
MEAN	436	413	323	315	294	364	389	1,932	6,135	2,458	1,185	676
MAX	511	501	366	368	370	495	655	5,550	9,500	4,660	1,620	1,100
MIN	343	329	278	230	245	276	307	433	2,820	1,410	900	391
AC-FT	26,790	24,570	19,870	19,380	16,920	22,400	23,170	118,800	365,000	151,100	72,880	40,250
CAL YR 1971	TOTAL 480,993	MEAN 1,318	MAX 9,600	MIN 200	AC-FT 954,000							
WTR YR 1972	TOTAL 454,343	MEAN 1,241	MAX 9,500	MIN 230	AC-FT 901,200							

PEAK DISCHARGE (BASE, 5,400 CFS)

DATE TIME G.H.T. DISCHARGE

6- 9 0430 8.14 10,300

06207540 SILVER TIP CREEK NEAR BELFRY, MONT.

LOCATION (revised).--Lat 45°09'32", long 108°58'31", in NE¼NW¼ sec.12, T.8 S., R.22 E., Carbon County, on right bank 0.1 mile upstream from county bridge, 1.5 miles upstream from mouth, and 2.0 miles northeast of Belfry. Prior to May 12, 1972, at site 0.4 mile upstream at different datums.

DRAINAGE AREA.--88.0 sq mi. Area at site used prior to May 12, 1972, 87.6 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,830 ft (from topographic map). Prior to May 12, 1972, at site 0.4 mile upstream at different datums.

AVERAGE DISCHARGE.--5 years, 2.47 cfs (1,790 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,100 cfs June 9 (gage height, 10.5 ft, from floodmark), from rating curve extended above 20 cfs on basis of slope-area measurement of peak flow (includes 100 cfs bypass flow in Clarks Fork and Silver Tip Ditch); no flow at times.

Period of record: Maximum discharge, 1,100 cfs June 9, 1972 (gage height, 10.5 ft, from floodmark), from rating curve extended above 20 cfs on basis of slope-area measurement of peak flow (includes 100 cfs bypass flow in Clarks Fork and Silver Tip Ditch); no flow at times each year.

REMARKS.--Records poor. Flow affected by oil recovery operations in Elk Basin oil field. No diversions above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	.10	.10		0	19	2.4	2.3	2.0	1.9	3.0	.60
2	21	.20	.10		0	12	2.1	2.4	2.0	3.4	3.6	1.2
3	11	.20	0		0	5.9	1.6	2.4	2.0	3.4	10	2.9
4	13	.30	0		0	5.9	1.3	2.5	2.0	3.0	5.6	3.0
5	8.0	.50	0		0	6.8	1.2	2.4	2.2	3.0	1.8	1.3
6	.86	.10	.10		0	18	1.3	2.3	2.4	2.8	1.8	1.4
7	.82	.50	.20		0	7.2	1.4	2.1	2.6	3.2	3.0	1.5
8	1.0	1.0	.30		0	7.2	1.6	1.8	6.6	2.6	2.4	1.6
9	1.0	1.6	.30		0	5.9	1.7	1.5	168	2.0	1.4	1.0
10	.92	5.0	.20		0	7.5	1.8	1.2	36	2.0	1.5	1.1
11	.92	7.2	.10		0	7.7	1.8	1.0	5.4	4.0	1.3	1.5
12	.58	4.1	0		0	6.4	2.0	1.0	3.4	4.4	1.5	1.3
13	1.5	2.0	0		0	6.2	2.1	1.2	2.6	3.8	1.8	1.1
14	1.0	1.6	0		0	5.3	2.2	1.5	1.9	2.4	1.6	1.0
15	.57	2.6	0		0	4.1	2.3	2.0	1.9	2.0	1.4	1.0
16	.61	2.5	0		0	4.7	2.5	2.2	1.9	1.9	1.6	1.1
17	1.3	1.9	0		0	4.9	2.6	2.4	1.3	1.2	1.7	.80
18	4.3	.70	0		0	4.1	2.7	2.5	1.5	1.3	1.7	1.0
19	4.1	.20	0		80	4.3	2.6	2.6	2.4	1.6	1.7	1.0
20	1.3	.40	0		170	4.1	2.5	3.0	2.8	2.6	1.9	.80
21	1.1	.30	0		120	2.7	2.5	40	3.4	2.5	1.5	.60
22	1.3	.20	0		80	1.2	2.5	10	2.6	2.0	2.2	.50
23	1.4	.20	0		50	1.9	2.4	3.0	2.2	1.8	8.1	.70
24	1.5	.20	.20		20	3.3	2.4	2.8	2.8	1.3	14	.80
25	1.3	.20	.30		5.0	3.8	2.3	3.2	2.2	1.2	1.9	2.2
26	1.4	.10	.20		10	2.7	2.2	2.8	2.0	1.4	.70	1.5
27	1.3	.10	.10		80	2.5	2.2	2.6	2.2	1.4	.80	1.6
28	.30	.20	0		120	1.3	2.2	2.5	2.2	6.8	.90	1.7
29	0	.20	0		50	.75	2.2	2.4	2.0	2.4	.70	1.7
30	0	.10	0		-----	2.7	2.3	2.3	2.0	3.0	.50	1.3
31	0	-----	0		-----	2.7	-----	2.2	-----	3.2	.80	-----
TOTAL	90.28	34.50	2.20	0	785.0	172.75	62.9	114.1	274.5	79.5	82.40	38.80
MEAN	2.91	1.15	.071	0	27.1	5.57	2.10	3.68	9.15	2.56	2.66	1.29
MAX	21	7.2	.30	0	170	19	2.7	40	168	6.8	14	3.0
MIN	0	.10	0	0	0	.75	1.2	1.0	1.3	1.2	.50	.50
AC-FT	179	68	4.4	0	1,560	343	125	226	544	158	163	77

CAL YR 1971 TOTAL 353.96 MEAN .97 MAX 21 MIN 0 AC-FT 702
WTR YR 1972 TOTAL 1,736.93 MEAN 4.75 MAX 170 MIN 0 AC-FT 3,450

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
2-20	1100	b8.92	170	5-21	2000	6.05	87
2-28	0300	b6.7	a250	6-9	2200	10.5	1,100

a About.

b Backwater from ice.

YELLOWSTONE RIVER BASIN

06218500 WIND RIVER NEAR DUBOIS, WYO.

LOCATION.--Lat 43°34'43", long 109°45'33", in NW¼NE¼ sec.25, T.42 N., R.108 W., Fremont County, on left bank 2.5 miles upstream from Warm Springs Creek and 7 miles northwest of Dubois.

DRAINAGE AREA.--232 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 7,188.71 ft above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--27 years, 178 cfs (129,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,940 cfs June 8 (gage height, 5.48 ft); minimum daily, 64 cfs Jan. 27.

Period of record: Maximum discharge, 1,940 cfs June 8, 1972 (gage height, 5.48 ft); maximum gage height, 5.66 ft, June 2, 1956; minimum daily discharge, 30 cfs Dec. 12, 1949, Jan. 5, 1950, Nov. 20, 1957.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 2,300 acres, of which about 110 acres lies below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	82	74	77	80	66	80	138	1,550	626	284	169
2	126	91	74	74	78	70	88	131	1,700	596	257	166
3	131	96	73	72	75	70	87	150	1,630	522	246	146
4	146	100	75	70	71	69	86	182	1,570	472	221	138
5	152	100	76	72	74	68	103	209	1,700	450	211	138
6	152	96	75	76	78	69	141	247	1,760	467	207	160
7	155	93	73	80	81	74	145	220	1,800	489	200	146
8	149	95	71	84	83	78	117	200	1,370	478	200	133
9	138	100	70	84	83	80	104	190	1,770	456	194	131
10	136	100	69	82	78	84	109	200	1,630	430	185	191
11	131	99	67	77	75	91	104	220	1,560	420	182	172
12	126	95	67	73	70	100	105	240	1,500	415	182	149
13	116	100	70	68	73	112	102	280	1,340	415	200	136
14	133	99	70	70	77	125	93	350	1,200	415	268	128
15	131	98	68	75	78	115	98	440	1,160	390	235	123
16	123	93	70	81	81	113	108	489	1,090	366	211	118
17	133	90	72	87	84	140	110	613	1,110	352	197	113
18	138	96	75	92	87	173	98	582	1,050	334	188	111
19	126	91	77	90	98	184	90	619	922	326	214	118
20	131	94	80	86	87	166	88	669	796	343	211	123
21	128	95	80	82	84	159	91	690	747	390	185	111
22	113	78	76	78	81	157	88	682	734	317	175	111
23	118	78	72	75	78	161	91	534	796	288	242	111
24	118	78	69	72	75	131	111	538	789	280	228	109
25	118	78	70	70	73	113	130	506	698	276	191	106
26	113	79	66	67	68	94	112	532	668	276	175	102
27	111	77	65	64	66	87	120	639	584	272	166	121
28	76	77	68	67	70	80	147	798	527	264	159	131
29	70	76	72	72	74	78	186	928	566	253	158	116
30	68	75	75	77	-----	78	175	1,080	608	250	172	113
31	75	-----	77	80	-----	80	-----	1,290	-----	261	163	-----
TOTAL	3,919	2,678	2,236	2,374	2,250	3,265	3,308	14,586	35,425	11,889	6,306	3,940
MEAN	123	86.3	72.1	76.6	73.6	105	110	471	1,191	384	203	131
MAX	155	100	90	92	88	184	186	1,290	1,870	626	284	191
MIN	68	75	65	64	66	66	80	131	527	250	158	102
AC-FT	7,570	5,310	4,440	4,710	4,460	6,480	6,560	28,930	70,270	23,580	12,510	7,810

CAL YR 1971 TOTAL 87,553 MEAN 240 MAX 1,540 MIN 39 AC-FT 173,700
WTR YR 1972 TOTAL 92,376 MEAN 252 MAX 1,870 MIN 64 AC-FT 182,600

PEAK DISCHARGE (BASE, 850 CFS)

DATE	TIME	G.H.T.	DISCHARGE
6- 8	0900	5.48	1,940

YELLOWSTONE RIVER BASIN

21

06221400 DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WYO.

LOCATION.--Lat 43°20'44", long 109°24'34", in SE¼SE¼ sec.1, T.4 N., R.6 W., Fremont County, Wind River Indian Reservation, on left bank 0.5 mile upstream from Upper Dinwoody Lake, 7.0 miles west of Burris, and 17 miles southeast of Dubois.

DRAINAGE AREA.--88.2 sq mi. Drainage area at mouth, 100 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,500 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 144 cfs (104,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 840 cfs June 5, 8 (gage height, 4.18 ft); minimum daily, 8.7 cfs Jan. 14.
Period of record: Maximum discharge, 1,400 cfs June 18, 1971 (gage height, 4.57 ft); minimum daily, 2.2 cfs Mar. 4, 1963.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	30	16	13	14	12	12	28	805	441	441	212
2	63	31	16	12	13	11	12	28	812	462	448	212
3	57	32	16	11	12	12	12	28	802	427	408	190
4	66	29	17	10	12	12	12	29	793	366	360	188
5	70	27	18	11	13	12	12	38	821	335	340	190
6	68	26	18	12	14	13	13	40	743	360	350	215
7	68	27	15	12	14	13	15	43	772	408	360	201
8	67	29	12	11	14	12	14	50	816	427	378	153
9	66	32	12	11	13	13	13	54	789	441	384	139
10	64	34	11	10	12	14	13	53	779	448	384	164
11	63	34	11	10	11	15	14	50	775	476	384	180
12	60	35	10	9.5	10	15	14	49	753	490	390	155
13	57	35	11	9.0	10	15	14	54	657	522	408	123
14	56	32	12	8.7	11	14	15	70	586	562	448	109
15	58	32	13	9.3	11	14	16	96	657	562	462	100
16	60	31	14	10	12	14	17	115	660	506	427	90
17	66	31	15	11	12	15	18	130	606	476	414	83
18	72	30	15	12	12	16	18	140	606	476	384	77
19	64	28	14	13	11	17	17	150	538	462	355	85
20	68	30	14	13	11	16	17	155	462	414	335	82
21	64	29	14	13	11	15	17	155	434	427	298	76
22	57	27	13	12	11	16	17	150	441	355	270	71
23	61	27	12	11	11	18	17	145	448	302	260	65
24	61	26	12	10	10	17	18	135	476	306	243	57
25	61	24	12	9.6	9.5	17	19	135	455	335	224	56
26	52	23	13	9.3	9.5	12	20	136	390	345	196	48
27	48	21	13	10	10	11	20	170	325	340	183	57
28	43	20	12	11	11	10	20	300	290	340	196	47
29	37	18	11	12	11	9.5	23	460	320	335	215	50
30	33	17	11	13	-----	10	27	620	384	355	218	53
31	29	-----	12	14	-----	11	-----	730	-----	372	221	-----
TOTAL	1,819	847	415	343.4	336.0	421.5	486	4,536	18,195	12,873	10,384	3,528
MEAN	58.7	28.2	13.4	11.1	11.6	13.6	16.2	146	607	415	335	118
MAX	72	35	18	14	14	18	27	730	821	562	462	215
MIN	29	17	10	8.7	9.5	9.5	12	28	290	302	183	47
AC-FT	3,610	1,680	823	681	666	836	964	9,000	36,090	25,530	20,600	7,000
CAL YR 1971	TOTAL 66,902.1 MEAN 183 MAX 1,210 MIN 7.5 AC-FT 132,700											
WTR YR 1972	TOTAL 54,183.9 MEAN 148 MAX 821 MIN 8.7 AC-FT 107,500											

PEAK DISCHARGE (BASE, 700 CFS)

NOTE.--No gage-height record May 7 to June 2.

DATE	TIME	G.HT.	DISCHARGE
6- 5	1000	4.18	840
6- 8	1100	4.18	840

YELLOWSTONE RIVER BASIN

06222700 CROW CREEK NEAR TIPPERARY, WYO.

LOCATION.--Lat 43°34'20", long 109°15'40", in sec.20, T.7 N., R.4 W., Fremont County, Wind River Indian Reservation, on right bank 300 ft upstream from mouth of Crow Creek Canyon, 5 miles north of Tipperary, and 19 miles north of Crowheart.

DRAINAGE AREA.--30 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,600 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 24.1 cfs (17,460 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 471 cfs June 8 (gage height, 5.30 ft); minimum daily, 2.3 cfs Feb. 3.

Period of record: Maximum discharge, 568 cfs June 16, 1965 (gage height, 5.20 ft), from rating curve extended above 220 cfs on basis of velocity-area study; maximum gage height, 5.54 ft Feb. 18, 1966 (backwater from ice); minimum daily discharge, 0.50 cfs Feb. 2, 1970.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	5.4	5.1	5.2	2.8	3.8	5.8	34	325	93	25	17
2	7.5	5.3	4.9	5.1	2.5	3.9	6.0	32	346	82	22	14
3	8.3	5.4	5.0	4.7	2.3	3.8	6.3	32	301	59	23	14
4	8.3	5.2	5.1	4.2	2.4	3.7	6.6	38	292	48	22	12
5	9.4	5.4	5.3	4.5	2.4	3.9	6.8	41	274	62	20	13
6	9.4	5.2	5.6	4.9	2.5	4.0	9.4	32	301	71	19	13
7	8.6	5.0	5.2	4.8	2.5	3.9	9.8	31	334	76	19	11
8	8.3	5.3	4.8	4.7	2.5	4.1	9.0	30	376	72	20	10
9	7.9	5.4	5.0	4.7	2.6	4.3	8.6	32	319	68	19	10
10	7.9	5.6	4.9	4.6	2.5	4.2	8.6	32	313	66	17	13
11	7.5	5.7	4.8	4.6	2.4	4.4	8.3	29	289	66	17	11
12	7.5	5.8	4.7	4.5	2.6	4.5	7.9	29	232	65	17	10
13	7.5	6.0	4.9	4.1	2.8	4.7	7.2	31	190	69	17	9.8
14	8.3	5.9	5.1	3.8	2.9	4.8	7.5	37	172	63	17	9.4
15	7.9	5.8	5.2	4.0	2.9	5.0	9.0	72	150	55	15	9.0
16	8.3	5.8	5.4	4.1	3.1	5.9	10	108	146	47	17	9.0
17	8.6	5.7	5.6	4.2	3.3	7.8	9.8	110	154	41	16	9.0
18	8.9	5.5	5.4	4.3	3.3	9.0	8.6	91	144	37	14	9.4
19	9.1	5.8	5.5	4.4	3.4	8.9	7.9	105	116	36	23	9.8
20	8.7	6.0	5.5	4.3	3.4	8.7	7.9	105	93	33	22	8.3
21	8.3	6.1	5.7	4.3	3.5	9.0	7.9	120	98	35	17	7.9
22	8.0	6.0	5.8	4.3	3.4	9.3	8.1	112	100	26	16	7.9
23	8.0	5.9	5.7	4.1	3.6	10	8.6	84	98	25	20	7.5
24	8.0	6.0	5.7	3.8	3.5	9.8	10	89	91	27	25	7.5
25	8.6	6.0	6.0	3.6	3.4	9.3	13	87	87	27	24	7.2
26	7.9	5.8	6.0	3.3	3.4	8.8	14	91	76	25	21	6.8
27	6.4	5.7	5.7	3.1	3.7	8.0	16	110	68	24	19	7.5
28	5.8	5.6	5.2	3.1	3.8	7.0	24	148	80	22	17	7.2
29	5.4	5.3	5.3	3.2	3.9	6.5	33	170	91	23	17	7.2
30	4.9	5.3	5.2	3.1	-----	6.0	34	208	95	22	17	7.2
31	5.1	-----	5.3	2.9	-----	6.0	-----	259	-----	27	15	-----
TOTAL	241.8	168.9	164.6	128.5	87.3	193.0	329.6	2,539	5,751	1,492	589	295.6
MEAN	7.80	5.63	5.31	4.15	3.01	6.23	11.0	81.9	192	48.1	19.0	9.85
MAX	9.4	6.1	6.0	5.2	3.9	10	34	259	376	93	25	17
MIN	4.9	5.0	4.7	2.9	2.3	3.7	5.8	29	68	22	14	6.8
AC-FT	480	335	326	255	173	383	654	5,040	11,410	2,960	1,170	586

CAL YR 1971 TOTAL 9,864.8 MEAN 27.0 MAX 259 MIN 1.8 AC-FT 19,570
WTR YR 1972 TOTAL 11,980.3 MEAN 32.7 MAX 376 MIN 2.3 AC-FT 23,760

PEAK DISCHARGE (BASE, 180 CFS)

NOTE.--No gage-height record Jan. 4 to Mar. 15.

DATE TIME G.H.T. DISCHARGE

6- 8 0300 5.30 471

YELLOWSTONE RIVER BASIN

23

06224000 BULL LAKE CREEK ABOVE BULL LAKE, WYO.

LOCATION.--Lat 43°10'37", long 109°12'08", in NE¼SW¼ sec.2, T.2 N., R.4 W., Fremont County, Wind River Indian Reservation, on left bank 1.2 miles upstream from high-water line of Bull Lake and 9 miles south of Crowheart.

DRAINAGE AREA.--187 sq mi.

PERIOD OF RECORD.--June 1941 to December 1953, October 1966 to current year. Monthly discharge only for some periods, published in WSP 1309. Prior to October 1950, published as "above Bull Lake Reservoir."

GAGE.--Water-stage recorder. Altitude of gage is 5,874 ft (from topographic map).

AVERAGE DISCHARGE.--18 years (1941-53, 1966-72), 309 cfs (223,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,610 cfs June 8 (gage height, 6.27 ft); minimum daily, 27 cfs Feb. 3.

Period of record: Maximum discharge, 3,420 cfs June 18, 1971 (gage height, 7.05 ft); minimum, 5.2 cfs Jan. 28, 1970 (gage height, 1.44 ft).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	102	39	42	30	30	41	77	1,600	1,070	650	277
2	128	100	36	41	28	31	39	75	1,880	1,160	698	280
3	124	99	45	41	27	30	40	72	1,890	1,090	716	274
4	122	95	39	42	29	29	39	79	2,000	921	662	259
5	126	89	39	47	31	30	40	92	2,080	843	620	250
6	130	85	42	44	33	29	47	104	2,150	882	585	331
7	131	80	39	40	35	29	54	115	2,310	960	563	379
8	133	76	32	37	37	30	52	130	2,480	1,040	552	343
9	133	74	43	35	37	31	49	140	2,410	1,050	563	294
10	133	73	37	34	35	32	49	140	2,410	1,030	563	268
11	134	71	37	35	33	36	53	130	2,330	1,040	552	271
12	133	70	38	33	31	39	64	120	2,240	1,050	546	268
13	131	68	38	30	33	43	61	142	2,030	1,070	552	250
14	129	66	37	31	35	45	67	180	1,760	1,090	579	226
15	135	64	37	32	36	43	70	250	1,650	1,090	620	207
16	140	63	35	35	36	42	71	300	1,590	988	626	188
17	145	63	34	36	37	49	69	340	1,600	921	590	170
18	152	49	33	37	38	60	67	365	1,560	863	552	157
19	146	59	33	43	39	56	65	385	1,420	812	510	155
20	139	65	32	46	38	56	64	395	1,210	800	495	175
21	134	59	30	46	37	51	65	400	1,090	941	458	175
22	129	56	30	47	36	52	70	390	1,100	908	409	167
23	126	49	32	44	35	61	73	375	1,230	746	387	160
24	122	58	35	42	33	55	78	340	1,380	644	379	150
25	119	51	41	40	32	52	82	320	1,320	620	347	140
26	117	44	42	37	31	49	76	320	1,070	626	305	131
27	114	55	39	34	30	44	72	390	856	620	271	126
28	108	51	41	32	31	45	75	530	746	620	256	128
29	102	44	46	33	32	41	82	730	800	602	265	119
30	104	42	38	34	-----	42	81	970	928	585	274	115
31	103	-----	41	32	-----	41	-----	1,300	-----	602	274	-----
TOTAL	3,950	2,020	1,160	1,182	975	1,303	1,855	9,696	49,120	27,284	15,419	6,433
MEAN	127	67.3	37.4	38.1	33.6	42.0	61.8	313	1,637	880	497	214
MAX	152	102	46	47	39	61	82	1,300	2,480	1,160	716	379
MIN	102	42	30	30	27	29	39	72	746	585	256	115
AC-FT	7,830	4,010	2,300	2,340	1,930	2,580	3,680	19,230	97,430	54,120	30,580	12,760

CAL YR 1971 TOTAL 139,334 MEAN 382 MAX 3,120 MIN 21 AC-FT 276,400
WTR YR 1972 TOTAL 120,397 MEAN 329 MAX 2,480 MIN 27 AC-FT 238,800

PEAK DISCHARGE (BASE, 1,500 CFS)

NOTE.--No gage-height record Jan. 26 to Mar. 20, Apr. 21 to June 6.

DATE	TIME	G.HT.	DISCHARGE
6- 8	0730	6.27	2,610

YELLOWSTONE RIVER BASIN

06225000 BULL LAKE CREEK NEAR LENORE, WYO.

LOCATION.--Lat 43°14'33", long 109°01'20", in NE¼NW¼ sec.17, T.3 N., R.2 W., Fremont County, Wind River Indian Reservation, on left bank 700 ft upstream from mouth, 2.8 miles downstream from Bull Lake, and 8.5 miles southeast of Lenore.

DRAINAGE AREA.--213 sq mi, of which 12 sq mi is probably noncontributing.

PERIOD OF RECORD.--May 1918 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,654 ft (from topographic map). May 18, 1918, to Sept. 30, 1922, at site 10 ft upstream at datum 0.86 ft higher; Oct. 1, 1922, to Oct. 3, 1934, at present site at datum 2.00 ft lower.

AVERAGE DISCHARGE.--54 years, 281 cfs (203,600 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,010 cfs June 12 (gage height, 4.46 ft); minimum daily, 38 cfs Oct. 11-13.

Period of record: Maximum discharge, 6,200 cfs Aug. 8, 1951 (gage height, 7.09 ft), result of automatic spillway gates releasing on Bull Lake Dam, from rating curve extended above 2,000 cfs on basis of slope-area measurement of peak flow; minimum prior to construction of Bull Lake Dam not determined, probably occurred during period of ice effect in March 1933; no flow Feb. 28 to Apr. 7, 1937 (result of regulation).

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow completely regulated by Bull Lake 2.8 miles upstream since April 1938. (See page 98.) Diversions above station for irrigation of about 730 acres below.

REVISIONS (WATER YEARS).--WSP 1309: 1921(M, date only), 1925(M), 1926(M), 1930(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	350	138	286	206	181	242	706	397	610	1,190	258
2	93	209	135	286	191	181	203	706	402	1,140	944	258
3	81	209	135	310	176	184	121	706	406	1,400	840	258
4	83	181	135	330	176	184	121	500	415	1,100	786	262
5	64	94	135	330	150	187	121	350	420	700	786	262
6	64	138	135	310	122	187	119	350	420	700	832	311
7	60	235	145	262	122	184	117	350	430	835	872	567
8	40	184	225	242	122	176	110	350	399	870	751	258
9	39	90	262	242	122	143	108	350	635	1,100	615	258
10	39	90	269	242	122	128	104	490	1,180	1,100	615	258
11	38	81	302	242	122	90	104	555	1,670	1,100	615	235
12	38	68	302	242	122	90	102	555	1,920	835	605	176
13	38	66	298	242	122	83	102	555	2,000	940	600	176
14	39	65	286	260	122	70	104	555	1,740	1,060	595	178
15	40	60	283	270	170	52	104	460	940	1,060	590	361
16	40	52	283	258	196	52	104	374	308	1,060	585	248
17	40	43	283	258	196	52	104	374	117	902	570	302
18	42	42	283	258	193	52	106	370	117	848	520	326
19	40	74	283	258	193	52	110	370	190	751	515	366
20	40	117	276	250	178	54	108	370	415	758	515	366
21	40	117	259	242	148	54	108	370	354	1,060	480	397
22	40	108	238	230	145	54	194	370	269	765	425	435
23	40	94	229	219	145	54	318	354	306	984	388	430
24	40	94	229	230	143	86	318	354	455	992	310	440
25	40	94	229	242	143	187	357	354	550	1,270	262	445
26	40	104	260	242	153	245	637	354	600	1,020	262	445
27	40	145	286	260	178	252	694	354	535	1,060	262	445
28	120	145	286	280	184	255	706	420	311	1,290	266	435
29	730	145	286	280	184	242	700	420	166	1,030	266	463
30	490	143	286	270	-----	242	706	400	75	1,220	262	402
31	490	-----	286	230	-----	242	-----	397	-----	1,290	262	-----
TOTAL	3,160	3,637	7,466	8,103	4,546	4,295	7,152	13,543	18,142	30,850	17,386	10,021
MEAN	102	121	241	261	157	139	238	437	605	995	561	334
MAX	730	350	302	330	206	255	706	706	2,000	1,400	1,190	567
MIN	38	42	135	219	122	52	102	350	75	610	262	176
AC-FT	6,270	7,210	14,810	16,070	9,020	8,520	14,190	26,860	35,980	61,190	34,490	19,880
CAL YR 1971	TOTAL 120,897.4		MEAN 331		MAX 2,690		MIN 5.4		AC-FT 239,800			
WTR YR 1972	TOTAL 128,301.0		MEAN 351		MAX 2,000		MIN 38		AC-FT 254,500			

NOTE.--No gage-height record Jan. 13 to Feb. 15.

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LOCATION.--Lat 43°14'33", long 109°00'35", in NW¼NW¼ sec.16, T.3 N., R.2 W., Fremont County, Wind River Indian Reservation, on right bank 0.9 mile downstream from Bull Lake Creek and 9 miles southeast of Crowheart.

REVISIONS (WATER YEARS).--WSP 1116: 1946-47. WSP 1709: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915	861	517	620	430	517	595	1,430	7,150	3,900	2,550	1,370
2	925	771	491	640	420	485	595	1,340	8,260	4,280	2,350	1,380
3	870	753	491	640	430	480	566	1,280	7,960	3,880	2,280	1,300
4	879	798	497	605	440	490	478	1,250	7,750	3,220	2,100	1,220
5	897	663	497	569	440	524	491	1,280	8,260	2,800	2,030	1,180
6	906	633	531	580	433	580	559	1,340	8,170	3,000	2,010	1,260
7	888	771	559	580	439	524	655	1,320	8,410	3,230	1,980	1,550
8	852	744	663	560	439	478	625	1,260	8,950	3,380	1,830	1,190
9	816	603	695	550	439	484	573	1,300	8,820	3,460	1,730	1,140
10	780	603	719	550	440	573	552	1,400	8,790	3,420	1,710	1,180
11	762	595	762	560	435	603	552	1,390	8,890	3,310	1,700	1,300
12	744	595	762	540	415	552	552	1,310	8,790	3,220	1,710	1,150
13	727	595	735	510	433	588	524	1,320	7,960	3,350	1,750	1,090
14	719	566	703	500	450	504	504	1,510	7,180	3,480	1,860	1,050
15	825	573	703	520	478	545	478	1,890	6,190	3,370	1,930	1,120
16	843	552	687	540	510	545	517	2,200	5,180	3,230	1,910	963
17	825	524	719	580	517	640	580	2,620	5,040	3,040	1,860	972
18	934	491	671	600	524	703	566	2,510	4,940	2,840	1,740	982
19	843	552	663	620	545	789	538	2,710	4,480	2,650	1,790	1,010
20	798	588	625	600	524	830	497	2,840	4,060	2,590	2,140	1,020
21	771	618	632	620	484	800	484	3,090	3,680	2,980	1,740	1,030
22	735	603	618	615	471	780	552	3,070	3,620	2,510	1,580	1,040
23	695	531	610	570	452	753	679	2,550	3,760	2,510	1,660	1,040
24	711	559	595	530	452	671	711	2,460	4,000	2,430	2,030	1,050
25	703	566	610	485	427	711	925	2,460	3,780	2,670	1,770	1,030
26	687	510	618	460	471	727	1,280	2,350	3,540	2,380	1,530	1,030
27	687	588	625	420	531	640	1,260	2,670	3,070	2,400	1,410	1,000
28	944	595	610	400	588	640	1,310	3,400	2,620	2,600	1,340	1,010
29	1,180	566	590	420	625	610	1,550	4,240	2,870	2,290	1,290	1,050
30	972	545	590	440	-----	580	1,620	4,770	3,110	2,430	1,300	953
31	944	-----	600	445	-----	595	-----	5,770	-----	2,510	1,300	-----
TOTAL	25,777	19,512	19,388	16,869	13,682	19,092	21,368	70,330	179,280	93,360	55,910	33,660
MEAN	832	617	625	544	472	616	712	2,269	5,976	3,012	1,804	1,122
MAX	1,180	861	762	640	625	830	1,620	5,770	8,950	4,280	2,550	1,550
MIN	687	491										

YELLOWSTONE RIVER BASIN

06226000 WYOMING CANAL NEAR LENORE, WYO.

LOCATION.--Lat 43°13'45", long 108°53'40", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.3 N., R.1 W., Fremont County, on right bank 3.3 miles downstream from diversion dam on Wind River and 15 miles southeast of Lenore.

PERIOD OF RECORD.--May 1941 to September 1945 (irrigation season only), May 1949 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 5,560.85 ft above mean sea level. May 1, 1941, to Sept. 30, 1945, nonrecording gage at site 3.2 miles upstream at different datum. May 3, 1949, to Oct. 2, 1952, Apr. 12 to May 15, 1971, water-stage recorder at site 3.0 miles upstream at different datum.

AVERAGE DISCHARGE.--23 years (1949-72), 549 cfs (397,800 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 1,820 cfs July 1, 1972; no flow at times in most years.

REMARKS.--Records fair except those for winter period, which are poor. Flow used for irrigation and power on Riverton project.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	682	518	350	355	262	377	466	666	1,220	1,820	1,560	790
2	676	509	333	345	238	366	466	662	1,390	1,780	1,580	776
3	672	507	338	315	240	382	275	636	1,360	1,680	1,550	772
4	654	514	334	305	252	355	71	700	1,420	1,570	1,430	742
5	632	497	345	340	264	355	52	626	1,420	1,530	1,420	730
6	624	491	355	375	262	399	0	630	1,360	1,550	1,410	716
7	592	513	335	372	270	405	0	614	1,390	1,580	1,320	870
8	576	490	310	368	280	380	0	616	1,430	1,600	1,140	738
9	510	462	315	362	270	370	0	578	1,450	1,600	1,070	722
10	144	461	312	345	260	412	0	536	1,420	1,590	1,080	716
11	0	450	308	345	250	414	0	526	1,420	1,590	1,040	722
12	0	425	305	340	263	388	0	464	1,480	1,600	1,100	694
13	0	411	325	308	292	396	0	438	1,600	1,640	1,090	710
14	0	412	330	292	322	418	0	440	1,580	1,700	1,100	704
15	0	401	335	316	302	388	0	442	1,560	1,740	1,070	708
16	0	389	340	340	299	413	0	550	1,660	1,720	1,150	677
17	0	386	370	350	320	437	0	668	1,660	1,700	1,160	680
18	0	381	360	362	350	448	0	652	1,670	1,640	1,180	702
19	0	407	375	370	370	460	0	650	1,610	1,680	1,170	742
20	0	393	372	360	370	455	0	612	1,590	1,670	1,190	741
21	0	432	385	370	378	450	13	596	1,640	1,640	1,150	740
22	0	414	390	372	362	452	381	580	1,700	1,650	1,020	740
23	0	390	380	365	375	447	476	606	1,720	1,630	988	739
24	0	416	372	335	360	446	546	652	1,750	1,630	948	738
25	93	407	380	325	350	470	606	654	1,740	1,570	892	736
26	393	399	380	305	348	476	486	662	1,720	1,550	875	735
27	446	406	365	290	375	471	566	656	1,600	1,570	850	733
28	402	410	345	300	350	470	664	664	1,660	1,570	798	719
29	526	406	355	302	406	468	672	764	1,690	1,560	800	673
30	520	385	350	285	-----	461	672	925	1,730	1,550	792	696
31	519	-----	360	268	-----	466	-----	982	-----	1,590	795	-----
TOTAL	8,650	13,082	10,809	10,382	9,080	13,095	6,412	19,447	46,640	50,490	34,718	21,901
MEAN	279	436	349	335	313	422	214	627	1,555	1,629	1,120	730
MAX	682	518	390	375	406	476	672	982	1,750	1,820	1,580	870
MIN	0	381	305	268	238	355	0	438	1,220	1,530	792	673
AC-FT	17,160	25,950	21,440	20,590	18,010	25,970	12,720	38,570	92,510	100,100	68,860	43,440
CAL YR 1971	TOTAL 198,570.00		MEAN 544		MAX 1,660		MIN 0		AC-FT 393,900			
WTR YR 1972	TOTAL 244,706.00		MEAN 669		MAX 1,820		MIN 0		AC-FT 485,400			

YELLOWSTONE RIVER BASIN

27

06228000 WIND RIVER AT RIVERTON, WYO.

LOCATION.--Lat 43°00'38", long 108°22'32", in NE¼NW¼ sec.2, T.1 S., R.4 E., Fremont County, Wind River Indian Reservation, on left bank 265 ft downstream from bridge on State Highway 789, 1.1 miles southeast of post office in Riverton, and 1.5 miles upstream from Little Wind River.

DRAINAGE AREA.--2,309 sq mi.

PERIOD OF RECORD.--May to August 1906, August to December 1907, May to October 1908, May 1911 to current year. Monthly discharge only for some periods, published in WSP 1309. Published as Big Wind River near Arapahoe Agency 1906 and as Big Wind River near Riverton 1907-08.

GAGE.--Water-stage recorder. Datum of gage is 4,903.56 ft above mean sea level. See WSP 1729 for history of changes prior to Oct. 13, 1930. Oct. 13, 1930, to Apr. 15, 1968, water-stage recorder at site 280 ft upstream at same datum. Apr. 16, 1968, to Nov. 17, 1968, water-stage recorder at site 880 ft upstream at same datum. Nov. 18, 1968, to July 28, 1970, water-stage recorder at site 225 ft upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 7,680 cfs June 9 (gage height, 7.67 ft); minimum daily, 198 cfs Apr. 25.

Period of record: Maximum discharge, 13,300 cfs June 15, 1935 (gage height, 8.15 ft), from rating curve extended above 7,200 cfs; minimum daily, 10 cfs May 18, 1955.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Bull Lake beginning in 1938 (see page 98.) and Pilot Butte Reservoir beginning in 1926 (combined capacity, 182,000 acre-ft). Diversions above station for irrigation of about 128,000 acres above and below station. The Wyoming Canal of the Riverton project is the major diversion. This diversion began in 1926 and part of it can be returned to the river above station through Pilot wasteway. Additional waste water returns to river below station through Fivemile and Muddy Creeks. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1509: 1935. WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	515	525	545	525	545	428	1,010	5,230	1,310	752	399
2	550	436	496	550	495	545	432	776	5,770	1,970	650	615
3	468	382	464	565	470	550	460	758	6,410	2,190	595	600
4	436	392	460	495	440	545	550	645	6,120	1,550	580	535
5	500	389	476	500	410	540	500	686	6,240	956	530	496
6	520	302	488	540	390	565	525	728	6,680	872	468	545
7	550	325	530	595	405	560	595	872	6,530	1,130	520	746
8	595	379	440	595	425	505	662	837	6,800	1,280	550	674
9	605	375	620	590	410	460	515	806	7,310	1,410	510	468
10	752	311	680	580	390	456	570	1,070	6,950	1,430	484	424
11	935	476	645	570	375	505	575	1,180	7,090	1,410	460	520
12	728	515	555	575	395	550	560	1,140	7,020	1,150	420	520
13	710	560	620	545	415	535	535	1,000	6,590	1,220	435	382
14	686	565	590	440	425	565	510	1,150	5,740	1,230	484	371
15	752	540	320	445	400	625	484	1,550	4,800	1,240	600	406
16	830	575	620	470	425	488	476	1,890	3,820	1,170	580	371
17	844	565	600	505	460	535	525	2,140	3,290	1,060	530	323
18	949	545	615	515	490	585	580	2,350	3,260	879	440	317
19	956	426	625	575	510	662	585	2,300	2,780	680	392	287
20	818	605	640	575	530	674	540	2,760	2,300	600	625	278
21	818	590	640	565	550	525	500	2,880	1,740	818	570	287
22	800	575	625	580	550	492	299	3,040	1,420	812	428	308
23	764	570	605	595	540	555	202	2,740	1,430	575	392	332
24	758	510	575	590	520	565	231	2,070	1,720	560	734	335
25	758	540	615	555	545	515	198	1,980	1,750	574	800	335
26	525	545	590	520	625	530	389	1,800	1,500	595	615	326
27	399	530	530	500	500	505	728	1,670	1,260	525	492	329
28	406	595	475	485	520	472	692	2,370	776	640	432	320
29	764	570	495	500	625	456	800	3,150	716	575	406	357
30	650	545	575	520	-----	440	1,060	3,870	782	496	378	389
31	555	-----	510	545	-----	424	-----	4,440	-----	645	382	-----
TOTAL	20,725	14,817	17,314	16,715	13,750	16,574	15,806	55,958	123,824	31,762	16,235	12,595
MEAN	669	494	559	539	474	535	527	1,805	4,127	1,025	524	420
MAX	956	605	680	595	625	674	1,060	4,440	7,310	2,190	800	746
MIN	344	302	320	440	375	424	198	645	716	496	378	278
AC-FT	41,110	29,390	34,340	33,150	27,270	32,870	31,350	111,000	245,600	63,000	32,200	24,980

CAL YR 1971 TOTAL 423,697 MEAN 1,161 MAX 8,590 MIN 114 AC-FT 940,400
WTR YR 1972 TOTAL 356,075 MEAN 973 MAX 7,310 MIN 198 AC-FT 706,300

YELLOWSTONE RIVER BASIN

06232800 LITTLE POPO AGIE RIVER NEAR ATLANTIC CITY, WYO.

LOCATION.--Lat 42°35'32", long 108°55'08", in SW¼NE¼NE¼ sec.8, T.30 N., R.101 W., Fremont County, Shoshone National Forest, on left bank 200 ft downstream from Gustave Lake and 11.6 miles northwest of Atlantic City.

DRAINAGE AREA.--5.99 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,780 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 9.12 cfs (6,610 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 178 cfs June 9 (gage height, 3.04 ft); minimum daily, 0.70 cfs Dec. 15.

Period of record: Maximum discharge, 178 cfs June 9, 1972 (gage height, 3.04 ft); maximum gage height, 3.44 ft May 25, 1967 (backwater from snow); minimum daily discharge, 0.20 cfs many days December 1958 to February 1959, but could have been less on individual days during ice period.

REMARKS.--Records fair except those for winter period and period of no gage-height record, which are poor. Flow regulated by Christina Lake 0.6 mile upstream (capacity, 3,060 acre-ft). No diversion above station.

LITTLE POPO AGIE RIVER NEAR ATLANTIC CITY, WYO. NUMBER 06232800

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	.82	.83	.82	.84	.94	1.1	1.4	9.0	68	7.8	4.6
2	2.8	.80	.83	.81	.82	.92	1.2	1.4	16	63	8.6	4.8
3	2.9	.78	.82	.80	.80	.93	1.3	1.4	27	51	11	4.7
4	3.0	.77	.81	.81	.81	.94	1.4	1.3	50	42	9.9	4.6
5	3.0	.75	.80	.82	.82	.95	1.5	1.4	78	39	8.6	5.8
6	2.7	.75	.79	.84	.83	.94	1.4	1.5	90	37	7.8	7.1
7	2.4	.75	.78	.86	.85	.95	1.3	1.7	122	37	7.2	6.0
8	2.2	.76	.77	.86	.87	.97	1.2	1.8	151	37	6.8	5.3
9	2.0	.79	.76	.84	.86	.99	1.3	1.7	155	36	6.5	6.0
10	1.8	.84	.75	.84	.85	1.0	1.4	1.8	165	36	6.5	5.5
11	1.5	.87	.74	.85	.84	1.0	1.4	1.8	155	33	6.2	4.6
12	1.4	.90	.73	.85	.85	1.0	1.3	1.7	152	31	6.0	4.6
13	1.3	.93	.72	.83	.86	1.0	1.3	1.6	136	30	5.8	4.0
14	1.2	.92	.71	.82	.86	1.1	1.4	1.6	113	29	5.6	3.8
15	1.0	.90	.70	.82	.88	1.1	1.5	1.7	105	28	5.8	3.6
16	1.0	.88	.71	.83	.89	1.1	1.5	2.0	99	25	5.4	4.7
17	1.2	.86	.73	.84	.91	1.1	1.5	2.4	115	22	5.2	4.2
18	1.1	.85	.74	.85	.93	1.1	1.5	2.6	130	22	5.0	13
19	1.0	.87	.76	.86	.96	1.2	1.6	2.8	107	19	5.2	42
20	.94	.90	.77	.89	.96	1.2	1.5	2.9	83	18	5.4	44
21	.90	.93	.79	.91	.95	1.2	1.4	3.0	84	19	5.0	43
22	.90	.90	.81	.91	.94	1.2	1.3	3.0	85	17	4.8	42
23	.90	.87	.83	.90	.93	1.2	1.3	3.0	100	13	5.0	42
24	.90	.90	.85	.88	.92	1.2	1.3	3.4	93	12	5.4	41
25	1.1	.90	.87	.87	.90	1.2	1.4	3.9	91	11	5.2	40
26	.90	.87	.88	.85	.92	1.3	1.6	4.1	74	11	4.8	40
27	.94	.86	.87	.84	.94	1.2	1.6	4.3	60	10	4.8	39
28	.90	.85	.86	.83	.95	1.1	1.5	4.8	56	9.0	4.8	39
29	.87	.84	.85	.84	.96	1.0	1.4	5.2	60	8.6	5.0	38
30	.86	.84	.84	.84	-----	1.0	1.4	6.0	65	8.0	4.8	38
31	.84	-----	.83	.85	-----	1.1	-----	7.5	-----	8.0	4.4	-----
TOTAL	47.35	25.45	24.53	26.26	25.70	33.13	41.8	84.7	2,826.0	829.6	190.3	584.9
MEAN	1.53	.85	.79	.85	.89	1.07	1.39	2.73	94.2	26.8	6.14	19.5
MAX	3.0	.93	.88	.91	.96	1.3	1.6	7.5	165	68	11	44
MIN	.84	.75	.70	.80	.80	.92	1.1	1.3	9.0	8.0	4.4	3.6
AC-FT	94	50	49	52	51	66	83	168	5,610	1,650	377	1,160
CAL YR 1971	TOTAL 3,646.36		MEAN 9.99	MAX 157	MIN .30	AC-FT 7,230						
WTR YR 1972	TOTAL 4,739.72		MEAN 13.0	MAX 165	MIN .70	AC-FT 9,400						

NOTE.--No gage-height record Nov. 7 to Mar. 11.

YELLOWSTONE RIVER BASIN

29

06233000 LITTLE POPO AGIE RIVER NEAR LANDER, WYO.

LOCATION.--Lat 42°43'00", long 108°38'34", in NE¼SE¼ sec.27, T.32 N., R.99 W., Fremont County, on left bank
700 ft downstream from bridge on State Highway 28, 2.5 miles downstream from Red Canyon Creek, and 9.5 miles
southeast of post office in Lander.

DRAINAGE AREA.--125 sq mi.

PERIOD OF RECORD.--March 1946 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Datum of gage is 5,436.49 ft above mean sea level.

AVERAGE DISCHARGE.--25 years (1946-71), 80.3 cfs (58,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 875 cfs June 8 (gage height, 5.20 ft); minimum daily during period
of operation, 34 cfs Oct. 29.

Period of record: Maximum discharge, 2,010 cfs June 16, 1963 (gage height, 6.64 ft); minimum daily,
12 cfs Jan. 20, 21, Feb. 26 to Mar. 2, 1960, Jan. 10, 11, 18, 19, 1963.

REMARKS.--Records good. Diversions for irrigation of about 540 acres above station. Slight regulation by
Christina Lake (capacity, about 3,860 acre-ft).

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70						41	67	514	238	73	46
2	67						40	67	565	230	76	46
3	63						38	71	594	208	85	45
4	66						36	76	618	182	76	42
5	67						40	84	646	167	71	42
6	68						51	84	654	163	66	61
7	67						53	93	726	159	64	57
8	64						49	105	810	155	61	51
9	62						48	112	780	151	62	47
10	61						49	117	765	145	59	47
11	60						50	114	706	141	57	45
12	59						56	111	684	137	56	42
13	52						54	111	622	133	56	42
14	45						53	121	515	129	53	41
15	43						57	143	494	126	53	40
16	42						56	174	466	118	52	39
17	44						55	215	475	113	51	39
18	46						53	253	512	113	50	37
19	43						51	298	442	109	50	63
20	45						51	354	366	108	51	81
21	44						53	345	341	115	49	79
22	41						53	314	347	105	49	78
23	41						53	281	389	93	51	78
24	41						55	292	374	88	58	78
25	44						61	311	377	84	55	78
26	43						63	317	299	79	50	76
27	39						60	326	252	78	48	78
28	35						64	356	235	76	45	77
29	34						69	371	235	73	42	76
30	36				-----		71	410	238	71	41	75
31	39	-----			-----		-----	463	-----	71	42	-----
TOTAL	1,571						1,583	6,556	15,041	3,958	1,752	1,726
MEAN	50.7						52.8	211	501	128	56.5	57.5
MAX	70						71	463	810	238	85	81
MIN	34						36	67	235	71	41	37
AC-FT	3,120						3,140	13,000	29,830	7,850	3,480	3,420

PEAK DISCHARGE (BASE, 350 CFS)

DATE TIME G.H.T. DISCHARGE

6- 8 1030 5.20 875

YELLOWSTONE RIVER BASIN

06235500 LITTLE WIND RIVER NEAR RIVERTON, WYO.

LOCATION.--Lat 42°59'51", long 108°22'29", in NE¼ sec.11, T.1 S., R.4 E., Fremont County, Wind River Indian Reservation, on right bank 1.8 miles upstream from mouth and 1.9 miles southeast of Riverton.

DRAINAGE AREA.--1,904 sq mi.

PERIOD OF RECORD.--May 1941 to current year. Prior to October 1958, published as Popo Agie River near Riverton.

GAGE.--Water-stage recorder. Datum of gage is 4,901.84 ft above mean sea level. Prior to Sept. 19, 1956, at site 600 ft downstream at same datum.

AVERAGE DISCHARGE.--31 years, 588 cfs (426,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,600 cfs June 9 (gage height, 7.19 ft); minimum daily, 170 cfs Feb. 4.

Period of record: Maximum discharge, 14,700 cfs June 17, 1963 (gage height, 10.85 ft); minimum daily, 41 cfs Aug. 7, 1960.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 62,900 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	360	320	300	200	700	249	373	3,290	1,560	302	290
2	705	400	290	280	190	640	246	326	3,710	1,650	318	338
3	594	440	280	260	180	586	246	326	4,200	1,700	377	355
4	552	440	270	240	170	430	249	346	4,330	1,450	405	330
5	540	410	300	220	180	420	246	386	4,790	1,200	445	310
6	564	380	330	240	190	490	256	460	4,870	1,070	465	318
7	570	360	340	260	200	490	282	485	4,690	1,090	415	415
8	558	370	300	280	215	445	310	568	5,070	1,130	377	400
9	540	380	270	300	230	430	302	617	5,450	1,120	359	377
10	528	420	290	280	220	435	298	656	5,390	1,080	346	359
11	522	440	300	260	200	415	302	717	5,150	1,010	314	342
12	504	460	290	240	190	400	298	662	4,810	978	294	346
13	492	480	280	220	210	400	314	649	4,260	948	282	330
14	492	470	270	210	210	382	346	610	3,490	910	278	302
15	480	460	260	210	200	377	368	656	2,920	873	294	314
16	510	450	270	220	200	359	350	813	3,750	828	278	306
17	558	440	270	240	220	359	330	1,030	4,690	768	260	290
18	588	420	260	270	240	368	342	1,280	4,750	753	260	270
19	670	400	250	300	270	377	355	1,480	2,560	710	274	253
20	558	380	260	330	320	410	342	2,030	2,150	682	267	256
21	540	390	280	310	370	373	350	1,960	1,750	724	263	286
22	528	410	290	330	500	346	350	1,760	1,690	933	246	294
23	504	390	300	330	600	342	330	1,600	1,790	790	246	294
24	498	400	290	320	800	342	310	1,510	2,130	656	322	298
25	498	390	310	300	730	322	314	1,600	2,300	556	334	310
26	504	410	300	270	690	306	346	1,620	2,190	485	310	318
27	492	390	280	250	650	290	355	1,610	1,700	445	290	314
28	504	370	270	220	700	263	346	1,680	1,380	405	282	310
29	370	340	260	230	760	260	342	1,930	1,320	354	278	334
30	340	310	280	230	-----	256	359	2,120	1,430	314	282	334
31	320	-----	290	220	-----	249	-----	2,550	-----	302	274	-----
TOTAL	16,083	12,160	8,850	8,170	10,035	12,262	9,442	34,430	17,000	27,474	9,737	9,593
MEAN	519	405	285	264	346	396	315	1,111	1,233	886	314	320
MAX	705	480	340	330	800	700	368	2,550	5,450	1,700	465	415
MIN	320	310	250	210	170	249	246	326	1,320	302	246	253
AC-FT	31,900	24,120	17,550	16,210	19,900	24,320	18,730	68,290	192,400	54,490	19,310	19,030
CAL YR 1971	TOTAL 317,254 MEAN 869 MAX 7,520 MIN 125 AC-FT 629,300											
WTR YR 1972	TOTAL 255,236 MEAN 697 MAX 5,450 MIN 170 AC-FT 506,300											

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 9	1700	7.19	5,600

YELLOWSTONE RIVER BASIN

31

06239000 MUSKRAT CREEK NEAR SHOSHONI, WYO.

LOCATION.--Lat 43°08'53", long 108°09'27", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.2 N., R.6 E., Fremont County, Wind River Indian Reservation, on left bank 2 miles upstream from mouth and 7 miles southwest of Shoshoni. Prior to Oct. 1, 1971, 60 ft downstream on right bank.

DRAINAGE AREA.--733 sq mi.

PERIOD OF RECORD.--June 1950 to September 1958, October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft (from topographic map). Prior to Oct. 1, 1971, at site 60 ft downstream at datum 6.00 ft higher.

AVERAGE DISCHARGE.--21 years, 2.67 cfs (1,930 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,380 cfs June 5 (gage height, 10.07 ft), from rating curve extended above 500 cfs on basis of slope-area measurement of peak flow; no flow for most of year.
Period of record: Maximum discharge, 13,300 cfs Feb. 10, 1962 (gage height, 6.44 ft, site and datum then in use, from floodmarks), on basis of slope-area measurement of peak flow; no flow for most of each year.

REMARKS.--Records poor. Bureau of Land Management has extensive spreader and detention systems on some of the tributaries above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0				0	16	.01	0	0			
2	0				0	10	.01	0	0			
3	0				0	6.4	.72	0	.50			
4	0				0	1.6	.02	0	.06			
5	0				0	1.0	0	0	341			
6	0				0	3.5	0	0	9.4			
7	0				0	22	0	0	0			
8	0				0	18	0	0	0			
9	0				0	15	0	.10	0			
10	0				0	13	0	0	0			
11	0				0	27	0	2.0	0			
12	0				0	23	0	4.8	0			
13	0				0	18	.32	3.2	0			
14	0				0	14	.05	.80	0			
15	0				0	12	0	.10	0			
16	0				.30	7.6	0	.02	0			
17	0				1.3	5.2	0	0	0			
18	.12				5.0	3.6	.01	0	0			
19	0				15	2.4	.27	.68	0			
20	0				50	2.8	.25	.22	0			
21	0				200	2.4	0	0	0			
22	0				580	1.2	0	0	0			
23	0				395	.80	0	0	0			
24	0				94	.80	0	0	0			
25	0				25	.20	0	0	0			
26	0				24	.60	0	0	0			
27	0				208	.12	0	0	0			
28	0				384	.38	0	0	0			
29	0				233	0	0	0	0			
30	0				-----	.20	0	0	0			
31	0	-----			-----	0	-----	0	-----			-----
TOTAL	.12	0	0	0	2,214.60	228.80	1.66	11.32	350.96	0	0	0
MEAN	.004	0	0	0	76.4	7.38	.055	.37	11.7	0	0	0
MAX	.12	0	0	0	580	27	.72	4.8	341	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.2	0	0	0	4,390	454	3.3	22	696	0	0	0

CAL YR 1971 TOTAL 1,180.32 MEAN 3.23 MAX 767 MIN 0 AC-FT 2,340
WTR YR 1972 TOTAL 2,807.46 MEAN 7.67 MAX 580 MIN 0 AC-FT 5,570

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.HT.	DISCHARGE
2-22	2300	9.53	914
2-28	1930	9.39	802
6- 5	0730	10.07	1,380

YELLOWSTONE RIVER BASIN

06244500 FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WYO.

LOCATION.--Lat 43°18'04", long 108°42'04", in NW¼NE¼ sec.25, T.4 N., R.1 E., Fremont County, on right bank 1,400 ft upstream from Wyoming Canal siphon and 4 miles north of Pavillion.

DRAINAGE AREA.--118 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,495 ft (from topographic map). Prior to Mar. 29, 1950, at site 0.2 mile downstream at different datum.

AVERAGE DISCHARGE.--23 years, 2.06 cfs (1,490 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 114 cfs Aug. 21 (gage height, 1.68 ft); maximum gage height recorded, 2.07 ft Aug. 2; minimum daily discharge, 0.01 cfs July 2, 13, 15-18, Aug. 10-20.

Period of record: Maximum discharge, 1,750 cfs Sept. 6, 1951 (gage height, 5.60 ft, from floodmarks), from rating curve extended above 350 cfs; no flow at times in most years.

Flood in September 1948 reached a stage of about 6.1 ft (discharge, 2,600 cfs, by slope-area measurement of peak flow).

REMARKS.--Records poor. Flow regulated by Bureau of Indian Affairs reservoir system approximately 10.5 miles upstream. Diversions for irrigation of about 320 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	3.7	2.7	1.4	1.1	9.0	5.0	4.0	1.8	.13	2.3	9.5
2	7.1	4.0	2.4	1.4	1.0	8.0	4.6	3.8	1.6	.01	22	3.8
3	7.1	4.4	2.4	1.3	.95	7.5	4.6	3.8	1.5	.50	26	3.2
4	7.1	4.7	2.5	1.2	1.0	7.9	4.3	3.5	1.4	.82	9.2	2.0
5	7.1	4.7	2.5	1.2	1.2	8.4	4.0	3.5	2.6	1.2	2.8	1.4
6	5.7	4.5	2.5	1.3	1.6	9.0	4.0	4.0	4.0	.82	1.4	1.4
7	5.0	4.4	2.4	1.4	2.1	8.6	3.8	5.3	2.8	.82	.74	.74
8	4.3	4.3	2.3	1.5	2.6	8.4	3.5	6.0	3.2	.50	.18	.91
9	3.8	4.6	2.1	1.5	3.0	7.9	3.5	5.3	15	.02	.18	.74
10	3.2	5.0	2.0	1.4	3.0	8.4	3.5	9.2	4.0	.02	.01	.74
11	3.2	5.2	1.9	1.4	3.5	8.4	3.8	6.4	2.2	.02	.01	.74
12	3.2	5.3	1.8	1.3	4.1	8.4	4.0	5.3	1.8	.02	.01	1.5
13	3.2	5.2	1.7	1.2	4.5	8.4	4.0	4.0	1.5	.01	.01	.58
14	3.2	5.1	1.7	1.1	5.2	8.4	4.0	3.2	1.5	.74	.01	.74
15	3.2	5.0	1.6	1.2	5.6	7.5	3.8	2.6	1.2	.01	.01	.74
16	4.0	5.0	1.6	1.3	6.0	7.1	3.5	1.5	1.2	.01	.01	.58
17	4.3	5.0	1.7	1.4	6.6	7.1	3.5	1.5	1.2	.01	.01	.58
18	9.0	5.2	1.8	1.5	7.0	6.4	4.6	1.5	1.5	.01	.01	.58
19	8.8	5.6	1.9	1.7	7.4	6.4	4.6	3.5	4.7	.02	.01	.74
20	8.4	6.0	1.9	1.9	7.6	6.0	5.3	6.4	3.5	.02	.01	.58
21	7.9	6.0	2.0	2.1	7.8	5.7	4.6	5.7	3.0	.02	21	.58
22	6.7	5.7	2.0	2.2	8.0	5.3	4.0	4.0	2.6	.09	15	.91
23	6.4	5.5	1.9	2.2	8.2	5.3	3.8	3.0	1.5	.06	5.3	1.2
24	6.0	5.3	1.8	2.1	8.4	5.0	3.5	2.8	1.0	.06	7.5	1.4
25	6.0	4.9	1.7	2.0	7.5	4.6	4.3	2.8	1.5	.06	33	1.5
26	5.7	4.4	1.5	1.8	7.9	4.3	5.3	2.6	1.5	.06	14	1.8
27	5.7	3.9	1.4	1.6	7.9	4.3	4.6	2.6	1.0	.02	7.5	2.2
28	5.7	3.6	1.3	1.4	9.0	4.3	4.3	2.4	.18	.02	5.0	2.0
29	4.0	3.2	1.2	1.3	10	5.3	4.0	2.2	.50	.02	2.4	1.8
30	3.7	2.9	1.3	1.3	-----	5.7	3.8	2.2	.50	.02	1.4	1.8
31	3.6	-----	1.3	1.2	-----	5.0	-----	1.8	-----	.06	2.7	-----
TOTAL	171.1	142.3	58.8	46.8	150.15	212.0	125.9	116.4	71.48	6.20	179.71	46.98
MEAN	5.52	4.74	1.90	1.51	5.18	6.84	4.20	3.75	2.38	.20	5.80	1.57
MAX	9.0	6.0	2.7	2.2	10	9.0	6.4	9.2	15	1.2	33	9.5
MIN	3.2	2.9	1.2	1.1	.95	4.3	3.5	1.5	.18	.01	.01	.58
AC-FT	339	282	117	93	298	421	250	231	142	12	356	93

CAL YR 1971 TOTAL 1,146.71 MEAN 3.14 MAX 24 MIN .01 AC-FT 2,270
WTR YR 1972 TOTAL 1,327.82 MEAN 3.63 MAX 33 MIN .01 AC-FT 2,630

NOTE.--No gage-height record Dec. 7 to Jan. 10, Jan. 13 to Feb. 22.

YELLOWSTONE RIVER BASIN

33

06253000 FIVEMILE CREEK NEAR SHOSHONI, WYO.

LOCATION.--Lat 43°13'20", long 108°13'06", in NW¼SW¼ sec.19, T.3 N., R.6 E., Fremont County, on right bank 1.2 miles upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft and 5 miles west of Shoshoni.

DRAINAGE AREA.--418 sq mi, of which 133 sq mi is probably noncontributing.

PERIOD OF RECORD.--May 1941 to September 1942, August 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,750 ft (from topographic map). May 10, 1941, to Sept. 30, 1942, nonrecording gage at site 1 mile downstream at different datum.

AVERAGE DISCHARGE.--25 years, 148 cfs (107,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 600 cfs Aug. 3 (gage height, 4.18 ft); maximum gage height, 5.81 ft Feb. 17 (backwater from ice); minimum daily discharge, 37 cfs Apr. 2.
Period of record: Maximum discharge, 3,390 cfs June 15, 1962 (gage height, 7.85 ft), from rating curve extended above 2,500 cfs; maximum gage height, 9.61 ft Dec. 27, 1954 (backwater from ice); minimum daily discharge, 1.0 cfs Jan. 4-6, 1942.
Flood of July 24, 1923 (discharge, 3,500 cfs, estimated by Bureau of Reclamation), exceeded all floods at this location during period of record.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by regulation of Bureau of Indian Affairs reservoir system in the headwaters, diversions for irrigation, and return flow from irrigated area. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	110	88	69	45	59	41	129	174	332	533	360
2	318	115	87	69	42	53	37	121	210	353	542	339
3	304	115	87	64	44	62	44	127	198	385	573	332
4	294	114	84	60	45	56	44	131	223	402	515	325
5	269	110	84	63	46	53	41	139	242	406	482	325
6	266	105	89	69	44	65	38	170	269	395	470	322
7	254	117	80	68	45	59	39	188	287	395	466	290
8	236	112	73	65	45	58	41	200	278	402	406	284
9	242	106	72	66	44	59	39	186	301	409	378	281
10	239	105	72	64	42	57	39	208	315	402	367	278
11	228	106	70	65	40	59	39	191	297	388	367	281
12	213	105	68	65	40	57	39	157	332	388	388	272
13	163	101	69	59	42	58	42	149	315	402	388	239
14	157	98	70	50	44	58	54	147	350	420	392	239
15	153	93	72	54	43	57	63	143	364	423	385	245
16	153	84	70	54	50	54	45	135	357	416	385	254
17	153	84	74	58	68	57	43	131	254	438	378	263
18	205	81	72	62	88	53	48	133	218	454	374	269
19	168	81	73	62	118	54	44	147	195	486	399	269
20	151	95	75	60	130	57	42	177	210	450	402	260
21	147	93	76	61	115	54	42	168	233	454	413	263
22	141	93	77	60	104	53	41	159	290	466	434	266
23	137	84	75	58	98	52	41	133	322	466	423	251
24	133	78	73	56	93	52	40	119	339	486	409	245
25	129	82	76	54	91	50	60	133	357	470	385	245
26	125	82	76	50	80	51	151	133	374	466	385	205
27	123	87	71	49	77	45	157	131	374	420	388	178
28	123	88	68	50	74	45	143	133	367	406	392	168
29	115	82	68	51	71	44	131	123	332	416	357	167
30	115	87	67	49	-----	44	127	129	322	446	336	167
31	114	-----	68	48	-----	44	-----	195	-----	478	332	-----
TOTAL	5,862	2,893	2,324	1,832	1,508	1,679	1,795	4,665	8,699	13,120	12,844	7,882
MEAN	189	96.4	75.0	59.1	65.8	54.2	59.8	150	290	423	414	263
MAX	318	117	89	69	130	65	157	208	374	486	573	360
MIN	114	78	67	48	40	44	37	119	174	332	332	167
AC-FT	11,630	5,740	4,610	3,630	3,780	3,330	3,560	9,250	17,250	26,020	25,480	15,630

CAL YR 1971 TOTAL 62,911 MEAN 172 MAX 475 MIN 27 AC-FT 124,800
WTR YR 1972 TOTAL 65,503 MEAN 179 MAX 573 MIN 37 AC-FT 129,900

YELLOWSTONE RIVER BASIN

06256650 BADWATER CREEK AT LYSITE, WYO.

LOCATION.--Lat 43°15'53", long 107°41'44", in NE¼SW¼NW¼ sec.13, T.38 N., R.91 W., Fremont County, on right bank 2.2 miles upstream from Bridger Creek and 0.4 mile southwest of Lysite.

DRAINAGE AREA.--415 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,240 ft (from topographic map). Prior to Oct. 26, 1970, at site 0.1 mile upstream at datum 6.01 ft higher.

AVERAGE DISCHARGE.--6 years, 19.0 cfs (13,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 630 cfs Feb. 28; maximum gage height, 8.70 ft Feb. 22, from floodmarks (backwater from ice); minimum daily discharge, 0.62 cfs July 27, Aug. 1, 7, 12, 14, 15.
Period of record: Maximum discharge, 6,240 cfs June 8, 1968 (gage height, 7.92 ft, site and datum then in use), from rating curve extended above 630 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.04 cfs Jan. 26, 1966.

REMARKS.--Records poor. Several small reservoirs for irrigation, railroad, and domestic use above station. Diversions for irrigation of about 1,700 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	5.1	5.5	6.1	5.3	188	17	25	3.4	2.0	.62	1.6
2	3.4	5.4	5.4	5.9	4.9	68	18	27	3.7	2.0	2.0	1.6
3	1.6	5.8	5.5	5.6	5.2	53	22	25	2.9	2.5	.88	2.2
4	1.5	7.2	5.7	5.2	5.7	26	20	24	2.2	2.2	.79	3.0
5	1.3	7.5	5.8	5.5	6.0	30	18	45	1.9	2.5	.79	4.0
6	1.3	6.9	6.1	5.9	6.4	86	27	25	16	2.2	.79	3.7
7	1.6	7.0	5.6	6.0	6.4	158	33	24	12	2.5	.62	2.8
8	1.6	7.3	5.0	6.1	6.8	68	25	24	4.6	2.5	.79	2.5
9	2.0	7.8	5.4	6.0	6.5	49	25	45	3.7	2.2	1.1	2.5
10	1.8	8.0	5.6	6.0	6.0	56	23	64	3.4	2.0	.79	2.0
11	1.8	8.4	5.5	5.7	5.7	52	19	70	3.0	2.0	.79	2.0
12	1.8	8.9	5.3	5.6	5.7	47	27	60	3.0	2.0	.62	1.8
13	1.8	8.9	5.2	5.3	6.5	39	26	63	2.8	1.8	.79	2.0
14	1.8	9.0	5.1	5.2	6.7	50	17	65	2.8	1.8	.62	1.6
15	2.2	10	5.2	5.4	6.6	36	13	70	2.8	2.0	.62	1.8
16	2.5	8.4	5.1	5.8	7.0	41	11	50	2.5	1.8	.79	1.6
17	2.8	7.0	5.3	6.1	9.2	49	19	47	2.8	1.6	.98	1.2
18	70	6.6	5.5	6.4	20	51	11	38	3.4	.98	.79	.98
19	19	6.4	5.7	6.6	110	54	19	25	12	.79	.90	.79
20	10	6.7	6.2	6.8	130	47	18	26	3.4	.88	.98	.79
21	4.6	6.9	6.4	6.6	160	28	15	43	3.0	.88	.98	.79
22	3.0	6.6	6.5	6.8	140	26	14	30	3.4	.79	1.2	.79
23	3.0	6.2	6.8	6.5	140	45	12	23	2.5	.79	1.8	.79
24	3.0	6.3	7.0	6.3	70	27	12	20	2.0	.70	4.6	.79
25	8.4	5.8	6.8	6.0	30	25	21	18	2.2	.70	1.8	.88
26	6.6	6.1	6.8	5.5	30	24	22	21	2.5	.70	2.5	.88
27	6.2	6.0	6.5	5.2	130	24	27	20	2.5	.62	1.8	.98
28	5.4	5.8	6.3	5.0	290	19	26	19	3.0	.79	1.8	.98
29	5.0	5.7	5.9	5.2	340	16	26	21	2.5	.70	1.1	1.5
30	4.6	5.6	5.7	5.1	-----	15	36	14	2.0	.70	.88	3.7
31	5.0	-----	5.6	5.1	-----	16	-----	4.3	-----	.70	1.1	-----
TOTAL	186.4	209.3	180.0	180.5	1,696.6	1,513	619	1,075.3	135.0	46.32	36.61	52.54
MEAN	6.01	6.98	5.81	5.82	58.5	48.8	20.6	34.7	4.50	1.49	1.18	1.75
MAX	70	10	7.0	6.8	340	188	36	70	19	2.5	4.6	4.0
MIN	1.3	5.1	5.0	5.0	4.9	15	11	4.3	2.0	.62	.62	.79
AC-FT	370	415	357	358	3,270	3,000	1,230	2,130	268	92	73	104
CAL YR 1971	TOTAL 3,535.78 MEAN 9.69 MAX 260 MIN .62 AC-FT 7,010											
WTR YR 1972	TOTAL 5,930.57 MEAN 16.2 MAX 340 MIN .62 AC-FT 11,760											

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-18	a0830	5.75	144	2-28	--	--	a630
2-22	--	--	a290	3- 7	1230	6.82	195

a About.

YELLOWSTONE RIVER BASIN

35

06256800 BRIDGER CREEK NEAR LYSITE, WYO.

LOCATION.--Lat 43°17'22", long 107°43'16", in NE¼NE¼SW¼ sec.2, T.38 N., R.91 W., Fremont County, on left bank 0.3 mile upstream from mouth and 2.2 miles northwest of Lysite.

DRAINAGE AREA.--182 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,200 ft (from topographic map). Prior to Oct. 27, 1970, at site 800 ft upstream at datum 5.62 ft higher.

AVERAGE DISCHARGE.--6 years, 14.4 cfs (10,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 250 cfs Feb. 29; maximum gage height, 8.03 ft Mar. 7, from floodmarks (backwater from ice); no flow July 29.
Period of record: Maximum discharge, 880 cfs June 9, 1968 (gage height, 7.52 ft, site and datum then in use); no flow at times in 1966, 1971, 1972.

REMARKS.--Records poor. Diversions for irrigation of about 1,100 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	2.6	5.0	5.9	5.2	113	24	18	4.4	3.7	.01	.04
2	1.0	2.8	4.8	5.7	4.8	79	24	19	4.0	3.3	.02	.06
3	1.9	3.3	4.9	5.4	5.2	64	25	18	4.2	2.3	.06	.08
4	.90	4.0	5.2	5.0	5.7	45	25	17	3.3	3.5	.26	.05
5	1.9	4.7	5.4	5.3	6.0	52	24	14	6.1	2.3	.30	.12
6	2.1	4.4	4.1	5.6	6.2	90	25	11	4.6	.70	.26	.30
7	2.2	4.8	3.0	5.8	6.4	120	25	11	4.6	1.0	.23	.14
8	2.5	5.5	2.2	6.0	6.7	72	25	13	4.4	1.2	.52	.14
9	2.7	6.0	2.7	5.8	6.2	55	25	14	3.7	1.9	2.1	.17
10	2.4	6.5	3.5	5.7	6.0	64	25	17	3.7	1.5	1.4	.20
11	2.4	7.1	5.0	5.6	5.7	124	25	20	4.9	.90	.30	.40
12	2.4	7.7	5.6	5.4	6.0	142	25	22	4.4	.90	.35	.45
13	2.4	8.3	5.2	5.2	6.4	104	25	18	1.5	1.5	.45	.50
14	2.7	8.5	4.9	5.0	6.8	79	25	17	1.2	1.5	.50	.60
15	3.0	8.9	5.0	5.2	6.5	47	25	17	2.8	1.7	.12	.50
16	3.5	9.3	4.9	5.6	7.0	38	25	15	2.4	1.9	.01	.45
17	5.1	9.9	5.1	5.8	8.8	36	24	15	1.9	2.1	.10	.70
18	4.9	6.1	5.3	6.0	12	38	24	15	4.0	2.3	1.7	.70
19	15	6.0	5.6	6.4	32	38	24	15	6.8	2.1	2.1	1.0
20	7.4	6.2	6.0	6.6	42	35	24	17	5.4	2.1	.60	.35
21	5.1	6.5	6.2	6.5	56	28	21	18	5.8	2.1	.60	.17
22	4.9	6.2	6.2	6.7	55	25	22	15	6.4	.60	1.5	.30
23	4.9	5.8	6.5	6.4	72	27	20	11	5.1	.23	.45	.80
24	4.6	5.6	6.7	6.2	50	32	19	8.4	4.4	.30	.40	.70
25	4.9	5.4	6.6	5.9	20	33	19	10	3.5	.10	.23	1.2
26	4.4	5.6	6.6	5.5	12	29	18	8.4	4.0	.04	.10	.90
27	4.2	5.6	6.3	5.2	15	28	20	9.8	3.5	.02	.14	.45
28	4.0	5.5	6.0	4.9	77	26	21	9.8	3.7	.01	.08	1.8
29	2.3	5.3	5.7	5.2	194	23	20	8.4	3.7	0	.04	2.8
30	2.1	5.2	5.5	5.0	-----	24	18	6.8	3.7	.01	.04	2.4
31	2.3	-----	5.5	5.0	-----	25	-----	5.8	-----	.02	.04	-----
TOTAL	154.65	178.3	161.3	175.5	742.6	1,735	691	434.4	122.1	41.83	15.01	18.47
MEAN	4.99	5.94	5.20	5.66	25.6	56.0	23.0	14.0	4.07	1.35	.48	.62
MAX	4.9	9.3	6.7	6.7	194	142	25	22	6.8	3.7	2.1	2.8
MIN	.45	2.6	2.2	4.9	4.8	23	18	5.8	1.2	0	.01	.04
AC-FT	307	354	320	348	1,470	3,440	1,370	862	242	83	30	37
CAL YR 1971	TOTAL 2,903.64		MEAN 7.96	MAX 100	MIN 0	AC-FT 5,760						
WTR YR 1972	TOTAL 4,470.16		MEAN 12.2	MAX 154	MIN 0	AC-FT 8,870						

PEAK DISCHARGE (BASE, 35 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-18	1130	4.04	85	3-7	--	--	Unknown
2-23	--	--	a120	3-11	2200	4.68	224
2-29	--	--	a250				

a About.

YELLOWSTONE RIVER BASIN

06256900 DRY CREEK NEAR BONNEVILLE, WYO.

LOCATION.--Lat 43°16'52", long 107°54'45", in NW¼NW¼ sec.8, T.38 N., R.92 W., Fremont County, on left bank 0.4 mile upstream from mouth and 8 miles east of Bonneville.

DRAINAGE AREA.--52.6 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,010 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 2.66 cfs (1,930 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,040 cfs Aug. 21 (gage height, 9.97 ft); no flow for many days.
Period of record: Maximum discharge, 1,650 cfs June 17, 1967 (gage height, 12.41 ft), from rating curve extended above 67 cfs on basis of slope-area measurement of peak flow; no flow for most of each year.

REMARKS.--Records poor. Diversions for irrigation of about 200 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	0	0	3.6	2.6	1.2		0	.62	0
2	0		0	0	0	2.6	2.2	1.6		0		0
3	0		0	0	0	1.5	1.8	3.2		0	0	7.1
4	0		0	0	0	1.7	2.4	5.2		0	0	.03
5	0		0	0	0	1.7	2.2	5.2		0	0	0
6	0		0	0	0	1.8	2.4	5.8		0	0	0
7	0		0	0	0	2.5	2.8	8.1		0	0	0
8	0		0	0	0	2.8	3.2	8.1		0	42	0
9	0		0	0	0	2.0	3.4	6.4		0	5.3	0
10	0		0	0	0	1.7	3.8	8.6		0	0	0
11	0		0	0	0	1.8	1.6	9.2		0	0	0
12	0		0	0	0	1.8	1.2	9.2		0	0	0
13	0		0	0	0	1.8	1.4	7.6		0	0	0
14	0		0	0	0	3.8	1.4	6.4		0	0	0
15	0		0	0	.10	1.2	.02	5.8		0	0	0
16	0		0	0	1.0	.95	0	3.8		0	0	0
17	0		0	0	1.6	1.2	0	3.2		0	0	0
18	2.0		0	0	1.5	1.4	0	3.2		0	0	0
19	.56		0	0	1.6	2.8	0	3.4		0	0	0
20	.08		0	0	1.6	3.2	0	5.8		0	0	0
21	.01		0	.06	1.7	2.2	0	3.8		0	64	0
22	0		0	.10	1.9	1.8	0	1.3		0	1.2	0
23	0		0	.05	2.4	2.2	0	.09		0	0	0
24	0		0	.02	2.3	2.4	0	0		0	0	0
25	0		0	0	2.2	2.6	0	0		0	0	0
26	0		.10	0	2.1	2.6	0	0		0	0	0
27	0		.05	0	3.0	1.9	0	0		0	0	0
28	0		0	0	4.0	1.8	0	0		0	0	0
29	0		0	0	4.3	1.9	.01	0		0	0	0
30	0		0	0	-----	1.9	.47	0		0	0	0
31	0	-----	0	0	-----	2.4	-----	0	-----	1.3	0	-----
TOTAL	2.65	0	.15	.23	31.30	65.55	32.90	116.19	0	1.3	112.52	7.13
MEAN	.086	0	.005	.007	1.08	2.11	1.10	3.75	0	.042	3.63	.24
MAX	2.0	0	.10	.10	4.3	3.8	3.8	9.2	0	1.3	64	7.1
MIN	0	0	0	0	0	.95	0	0	0	0	0	0
AC-FT	5.3	0	.3	.5	62	130	65	230	0	2.6	223	14

CAL YR 1971 TOTAL 213.05 MEAN .58 MAX 41 MIN 0 AC-FT 423
WTR YR 1972 TOTAL 369.92 MEAN 1.01 MAX 64 MIN 0 AC-FT 734

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G.HT.	DISCHARGE
8- 8	2030	8.89	784
8-21	1730	9.97	1,040
9- 3	1900	6.01	148

YELLOWSTONE RIVER BASIN

37

06257000 BADWATER CREEK AT BONNEVILLE, WYO.

LOCATION.--Lat 43°16'09", long 108°04'46", in NW¼NE¼ sec.14, T.38 N., R.94 W., Fremont County, on right bank 0.4 mile west of Bonneville and 3 miles upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft.

DRAINAGE AREA.--808 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 4,774.17 ft above mean sea level. Prior to June 27, 1947, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 20.4 cfs (14,780 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,300 cfs Aug. 21 (gage height, 3.30 ft); maximum gage height, 4.56 ft Feb. 23 (backwater from ice); no flow for many days.

Period of record: Maximum discharge, 8,490 cfs June 9, 1968 (gage height, 7.64 ft); no flow for many days in each year.

Flood of July 24, 1923, reached a discharge of 18,600 cfs, from slope-area measurement of peak flow.

REMARKS.--Records poor. Diversions for irrigation of about 3,100 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	14	5.5		C	438	142	18	18		12	
2	0	4.8	4.5		0	62	150	94	18		0	
3	0	7.0	3.8		0	7.0	86	78	38		0	
4	0	9.0	2.9		0	7.0	118	102	10		0	
5	C	11	2.4		0	10	78	78	14		0	
6	0	10	2.2		C	192	110	118	45		0	
7	0	10	2.1		C	571	78	70	14		0	
8	0	11	1.9		C	288	78	78	4.8		13	
9	0	12	1.8		0	210	44	61	4.0		76	
10	0	14	1.6		0	234	64	110	3.5		0	
11	0	16	1.4		0	378	38	78	3.0		0	
12	0	18	1.3		0	510	38	78	2.0		0	
13	0	20	1.2		0	630	70	70	1.0		0	
14	0	23	1.1		0	550	102	10	.50		0	
15	0	19	1.0		1.0	490	70	14	0		0	
16	0	16	0		5.0	360	44	70	0		0	
17	0	15	0		10	432	51	44	0		0	
18	166	14	0		50	414	142	58	1.0		0	
19	163	12	0		100	510	126	58	111		0	
20	86	11	0		450	414	150	21	42		0	
21	94	11	0		520	360	110	38	6.0		143	
22	78	12	0		480	198	102	58	3.0		4.8	
23	78	12	0		850	246	51	38	3.0		0	
24	70	13	0		650	234	64	24	2.5		0	
25	78	13	0		390	234	31	24	2.0		0	
26	102	11	0		190	258	70	14	0		0	
27	110	9.0	0		170	186	58	10	0		0	
28	86	8.0	0		650	150	64	58	0		0	
29	64	7.2	0		1,600	118	94	94	0		0	
30	38	6.6	0		-----	142	24	64	0		0	
31	24	-----	0		-----	118	-----	18	-----		0	-----
TOTAL	1,237	369.6	34.7	0	6,116.0	8,951.0	2,447	1,758	346.30	0	248.8	0
MEAN	39.9	12.3	1.12	0	211	289	81.6	56.7	11.5	0	8.03	0
MAX	166	23	5.5	0	1,600	630	150	118	111	0	143	0
MIN	0	4.8	C	0	C	7.0	24	10	C	0	0	0
AC-FT	2,450	733	69	0	12,130	17,750	4,850	3,490	687	0	493	0
CAL YR 1971	TOTAL 9,424.70			MEAN 25.8	MAX 883	MIN 0	AC-FT 18,690					
WTR YR 1972	TOTAL 21,508.40			MEAN 58.8	MAX 1,600	MIN 0	AC-FT 42,660					

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
2-23	--	--	al,570	8- 9	0030	2.70	1,050
2-29	--	--	al,800	8-21	2000	3.30	2,300
3- 7	1500	2.63	1,010				

a About.

YELLOWSTONE RIVER BASIN

06257500 MUDDY CREEK NEAR PAVILLION, WYO.

LOCATION.--Lat 43°21'46", long 108°36'08", in NW¼SE¼ sec.35, T.5 N., R.2 E., Fremont County, on left bank 600 ft upstream from Wyoming Canal siphon, 4.1 miles downstream from Sheep Creek, and 9.2 miles northeast of Pavilion.

DRAINAGE AREA.--267 sq mi.

PERIOD OF RECORD.--March 1949 to December 1953, October 1954 to September 1958, October 1959 to December 1964, July 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,350 ft (from topographic map). Prior to Oct. 16, 1956, at site 1.1 miles upstream at different datum.

AVERAGE DISCHARGE.--20 years (1949-53, 1954-58, 1959-64, 1965-72), 4.77 cfs (3,460 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 362 cfs June 9 (gage height, 3.31 ft); maximum gage height recorded, 4.16 ft Feb. 23 (backwater from ice); no flow for many days.

Period of record: Maximum discharge, 2,300 cfs June 5, 1949 (gage height, 9.70 ft, from floodmark, site and datum then in use), from rating curve extended above 1,100 cfs on basis of slope-area measurement of peak flow; no flow at times most years.

REMARKS.--Records poor. Flow regulated by Bureau of Indian Affairs reservoir systems, the nearest of which is approximately 6.5 miles upstream on Sheep Creek and the other approximately 18.6 miles upstream on main stem. The flow is also affected by several small spreader dike systems and diversions for irrigation of about 1,500 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	2.8	1.7	1.5	1.1	6.5	4.8	3.6	.35	.35	1.5	0
2	9.2	3.0	1.6	1.5	1.0	6.1	4.6	3.4	.25	.20	.02	0
3	7.8	3.2	1.6	1.5	.97	5.8	4.4	3.3	.15	.05	C	0
4	5.8	3.5	1.6	1.4	1.0	5.6	4.4	3.3	.05	0	C	0
5	5.8	3.6	1.7	1.4	1.2	5.4	4.6	3.4	.20	0	0	0
6	5.8	3.5	1.8	1.4	1.4	5.3	4.4	3.6	1.2	0	0	0
7	5.5	3.4	1.7	1.5	1.6	5.4	4.2	4.0	1.1	0	0	0
8	5.5	3.3	1.6	1.5	1.9	5.5	4.0	4.6	1.2	0	0	0
9	5.8	3.4	1.6	1.4	2.3	5.6	4.0	5.0	.85	0	0	0
10	6.2	3.6	1.5	1.4	2.7	6.0	4.0	5.8	3.4	0	C	0
11	5.5	3.7	1.5	1.3	3.3	6.8	4.0	5.4	9.6	0	0	0
12	4.6	3.8	1.5	1.2	4.0	7.8	4.2	5.2	8.6	0	C	0
13	4.0	3.9	1.4	1.2	4.7	8.7	4.4	4.4	8.6	0	0	0
14	2.8	3.9	1.4	1.2	5.2	9.7	4.4	4.2	5.8	0	0	0
15	2.8	3.8	1.4	1.3	5.7	10	4.2	3.2	2.1	0	C	0
16	3.4	3.7	1.5	1.4	6.0	8.6	4.2	3.2	2.4	0	C	0
17	3.4	3.6	1.5	1.5	6.2	7.5	4.2	2.7	19	0	0	0
18	7.0	3.4	1.5	1.6	6.0	7.2	4.8	2.6	3.6	0	0	0
19	8.9	3.5	1.6	1.7	5.9	7.0	5.2	3.1	51	0	0	0
20	5.0	3.6	1.7	1.9	6.0	7.0	5.0	3.7	17	0	0	0
21	4.2	3.7	1.8	2.0	6.1	6.5	4.6	3.2	6.8	0	0	0
22	3.8	3.6	1.8	2.0	6.0	6.2	4.0	2.5	6.2	0	0	0
23	3.8	3.4	1.7	2.0	5.9	6.2	3.8	1.9	5.5	0	3.5	0
24	3.6	3.2	1.7	1.9	5.7	6.5	3.4	1.6	4.2	0	17	0
25	3.6	2.9	1.6	1.8	5.6	6.2	3.8	1.5	5.2	0	.88	0
26	3.4	2.7	1.5	1.7	5.8	6.0	4.4	1.4	4.6	0	.12	.48
27	3.4	2.5	1.4	1.6	6.2	4.8	4.2	1.3	4.0	0	.02	.48
28	3.2	2.3	1.3	1.5	6.5	4.8	4.0	1.2	3.2	0	0	.60
29	3.1	2.1	1.3	1.4	6.7	5.0	3.6	1.1	1.4	0	0	.68
30	2.9	1.8	1.3	1.3	-----	4.6	3.5	1.0	.70	0	0	.82
31	2.8	-----	1.4	1.2	-----	5.2	-----	.70	-----	0	0	-----
TOTAL	149.7	98.4	48.2	47.2	122.67	199.5	127.3	95.10	293.00	.60	23.44	3.06
MEAN	4.83	3.28	1.55	1.52	4.23	6.44	4.24	3.07	9.77	.019	.76	.10
MAX	9.2	3.9	1.8	2.0	6.7	10	5.2	5.8	.85	.35	.17	.82
MIN	2.8	1.8	1.3	1.2	.97	4.6	3.4	.70	.05	0	0	0
AC-FT	297	195	96	94	243	396	252	189	581	1.2	46	6.1

CAL YR 1971 TOTAL 1,385.22 MEAN 3.80 MAX 80 MIN 0 AC-FT 2,750
WTR YR 1972 TOTAL 1,208.17 MEAN 3.30 MAX 85 MIN 0 AC-FT 2,400

NOTE.--No gage-height record Jan. 23 to Feb. 23.

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,460	1,630	1,220	1,290	1,650	1,910	1,910	1,690	2,220	2,800	2,280	1,780
2	1,200	1,630	1,010	1,370	1,620	1,910	1,910	1,680	2,240	2,810	2,280	1,780
3	1,200	1,620	1,020	1,480	1,610	1,930	1,910	1,690	2,250	2,800	2,280	1,780
4	1,320	1,620	1,020	1,580	1,610	1,920	1,910	1,690	2,260	3,240	2,280	1,770
5	1,410	1,630	1,020	1,690	1,610	1,920	1,910	1,690	2,270	3,240	2,280	1,770
6	1,410	1,620	1,030	1,770	1,610	1,920	1,910	1,680	2,360	3,250	2,280	1,780
7	1,410	1,630	1,030	1,870	1,610	1,930	1,910	1,690	2,390	2,950	2,280	1,780
8	1,400	1,640	1,020	1,980	1,630	1,920	1,910	1,690	2,380	2,780	2,270	1,780
9	1,390	1,640	1,020	2,060	1,710	1,910	1,910	1,680	2,930	2,790	2,260	1,780
10	1,390	1,670	1,020	2,060	1,780	1,920	1,910	1,680	3,520	2,800	2,270	1,780
11	1,410	1,690	1,020	2,060	1,880	1,930	1,910	1,690	3,540	2,800	2,280	1,780
12	1,420	1,700	1,020	2,170	1,910	1,910	1,910	1,700	4,060	2,800	2,270	1,780
13	1,390	1,680	1,020	2,170	1,920	1,900	1,930	1,690	5,130	2,800	2,270	1,780
14	1,410	1,680	1,010	2,170	1,910	1,900	1,950	1,680	6,180	2,600	2,270	1,770
15	1,410	1,680	1,020	2,180	1,910	1,900	1,950	2,020	6,680	2,490	2,270	1,770
16	1,410	1,690	1,020	1,970	1,910	1,900	2,000	2,130	6,670	2,500	2,270	1,770
17	1,410	1,690	1,020	1,640	1,910	1,900	1,990	2,130	6,660	2,500	2,260	1,770
18	1,410	1,680	1,020	1,640	1,910	1,900	1,960	2,150	6,640	2,500	2,260	1,770
19	1,410	1,690	1,020	1,690	1,910	1,900	1,950	2,170	5,480	2,540	2,260	1,770
20	1,400	1,680	1,020	1,780	1,900	1,900	1,940	2,170	4,930	2,420	2,260	1,780
21	1,400	1,680	1,020	1,910	1,890	1,900	1,950	2,170	4,950	2,280	2,060	1,780
22	1,400	1,680	1,020	1,960	1,880	1,910	1,960	2,170	3,600	2,290	1,780	1,700
23	1,400	1,690	1,020	1,950	1,880	1,910	1,950	2,180	2,940	2,280	1,790	1,590
24	1,410	1,680	1,020	1,950	1,910	1,910	1,960	2,190	2,950	2,280	1,780	1,590
25	1,420	1,680	1,020	1,960	1,890	1,910	1,970	2,200	3,300	2,290	1,780	1,590
26	1,540	1,680	1,030	1,950	1,910	1,910	1,840	2,200	3,940	2,280	1,780	1,580
27	1,630	1,680	1,020	1,940	1,920	1,910	1,820	2,210	4,210	2,280	1,780	1,590
28	1,640	1,670	1,020	1,850	1,930	1,910	1,760	2,200	4,210	2,280	1,780	1,590
29	1,630	1,650	1,020	1,630	1,920	1,910	1,690	2,200	4,210	2,280	1,780	1,590
30	1,630	1,630	1,060	1,620	-----	1,920	1,680	2,200	3,240	2,280	1,780	1,590
31	1,630	-----	1,170	1,630	-----	1,920	-----	2,210	-----	2,280	1,790	-----
TOTAL	44,400	49,910	32,020	56,980	52,640	59,250	57,170	60,520	118,340	80,720	65,310	51,710
MEAN	1,432	1,664	1,033	1,838	1,815	1,911	1,906	1,952	3,945	2,604	2,107	1,724
MAX	1,640	1,700	1,220	2,180	1,930	1,930	2,000	2,210	6,680	3,250	2,280	1,780
MIN	1,200	1,620	1,010	1,290	1,610	1,900	1,680	1,680	2,220	2,280	1,780	1,580
AC-FT	88,070	99,000	63,510	113,000	104,400	117,500	113,400	120,000	234,700	160,100	129,500	102,600
CAL YR 1971	TOTAL 751,100		MEAN 2,058	MAX 8,120		MIN 1,010		AC-FT 1,490,000				
WTR YR 1972	TOTAL 728,970		MEAN 1,992	MAX 6,680		MIN 1,010		AC-FT 1,446,000				

YELLOWSTONE RIVER BASIN

06260000 SOUTH FORK OWL CREEK NEAR ANCHOR, WYO.

LOCATION.--Lat 43°39'53", long 108°52'02", in sec.28, T.43 N., R.100 W., Hot Springs County, on right bank 0.9 mile upstream from normal high-water line of Anchor Reservoir, 2.3 miles upstream from Anchor Dam, 3.2 miles southwest of Anchor, and 34 miles west of Thermopolis.

DRAINAGE AREA.--87 sq mi, approximately.

PERIOD OF RECORD.--April to May 1932, August 1939 to September 1943 (no winter records except 1941 water year), April 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,504.33 ft above mean sea level. See WSP 1916 for history of changes prior to Aug. 11, 1965. Aug. 11, 1965, to Nov. 3, 1968, water-stage recorder and concrete flume 0.7 mile downstream at different datum. Nov. 4, 1968, to June 5, 1970, on left bank at present site at datum 0.14 ft higher.

AVERAGE DISCHARGE.--14 years (1940-41, 1959-72), 35.3 cfs (25,570 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 466 cfs June 2 (gage height, 5.88 ft); minimum daily, 4.0 cfs Jan. 14.

Period of record: Maximum discharge, 1,940 cfs July 25, 1941 (gage height, 8.59 ft, present site and datum), from rating curve extended above 190 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.10 cfs Jan. 11-22, 1960.

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

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	10	7.5	5.8	5.0	5.7	11	18	255	138	38	33
2	18	10	7.5	5.6	5.0	5.3	13	19	366	112	38	27
3	16	10	7.5	5.0	5.2	5.3	12	25	333	74	45	24
4	19	13	7.5	4.6	5.4	5.0	14	36	290	61	36	23
5	20	12	7.5	5.0	5.8	5.3	20	40	285	80	32	22
6	21	11	8.0	5.2	5.8	6.4	29	27	263	95	30	23
7	21	11	7.6	5.4	5.8	5.3	23	30	290	103	28	20
8	20	11	7.0	5.4	5.6	5.7	18	24	363	103	28	18
9	20	12	7.4	5.2	5.4	6.0	14	25	316	95	27	18
10	19	12	7.4	5.0	5.6	7.0	18	28	304	94	24	23
11	20	13	7.0	5.0	5.8	10	14	22	285	90	22	21
12	19	12	6.4	5.0	6.0	13	13	20	242	89	20	18
13	19	12	6.0	4.5	5.8	16	12	25	209	92	21	16
14	21	11	5.8	4.0	5.8	18	10	55	212	84	23	16
15	19	10	5.6	4.5	6.0	22	15	81	188	76	20	15
16	20	9.6	5.6	4.7	6.0	25	21	95	181	71	21	14
17	21	9.0	6.0	5.0	6.0	28	16	97	190	64	20	13
18	23	9.0	6.0	5.6	6.0	30	10	84	175	56	18	13
19	16	10	6.0	5.8	6.0	28	11	52	151	57	48	13
20	14	10	6.4	5.8	6.0	30	9.6	77	115	52	46	12
21	17	10	7.4	5.6	6.0	29	10	103	140	58	34	12
22	17	9.6	8.0	5.4	6.0	33	9.6	108	157	46	30	12
23	17	9.0	8.0	5.4	5.7	34	13	83	161	43	38	12
24	18	9.0	8.0	5.0	5.7	18	25	92	132	43	45	12
25	18	9.0	8.0	5.0	5.7	18	29	55	105	42	45	11
26	16	8.6	7.0	4.5	5.7	15	16	80	89	41	42	9.1
27	13	8.2	6.0	4.3	5.7	13	14	115	83	40	40	12
28	6.4	8.0	6.0	4.6	5.7	11	22	153	115	38	36	10
29	7.0	7.6	6.0	4.8	6.0	10	42	150	140	37	33	12
30	10	7.5	6.0	5.0	-----	9.4	30	242	142	36	30	12
31	11	-----	6.0	5.0	-----	10	-----	290	-----	40	28	-----
TOTAL	534.4	304.1	212.1	156.7	166.2	477.4	514.2	2,471	6,277	2,150	986	496.1
MEAN	17.2	10.1	6.84	5.05	5.73	15.4	17.1	79.7	209	69.4	31.8	16.5
MAX	23	13	8.0	5.8	6.0	34	42	250	366	138	48	33
MIN	6.4	7.5	5.6	4.0	5.0	5.0	9.6	18	83	36	18	9.1
AC-FT	1,060	603	421	311	330	947	1,020	4,900	12,450	4,260	1,960	984
CAL YR 1971	TOTAL 13,251.2		MEAN 36.3		MAX 327		MIN 1.1		AC-FT 26,280			
WTR YR 1972	TOTAL 14,745.2		MEAN 40.3		MAX 366		MIN 4.0		AC-FT 29,250			

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
6- 2	0145	5.88	466	6-22	1930	5.04	236
6- 7	2030	5.86	459	6-30	2300	4.96	216

YELLOWSTONE RIVER BASIN

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06260400 SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR, WYO.

LOCATION.--Lat 43°39'57", long 108°47'34", in sec.25, T.43 N., R.100 W., Hot Springs County, on left bank 1.6 miles downstream from Anchor Dam and 30 miles west of Thermopolis.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--April 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 21.4 cfs (15,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 204 cfs June 2 (gage height, 3.39 ft); no flow for many days.
Period of record: Maximum discharge, 373 cfs May 26, 1967 (gage height, 3.64 ft); no flow at times in most years.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor.
Some regulation at high flows by Anchor Dam. (See page 98.) No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	3.2	2.0	0	2.5	1.8	3.6	34	156	120	28	26
2	9.0	.97	1.0	0	1.0	2.0	3.6	21	172	118	28	26
3	7.5	.70	.25	0	.50	2.0	3.0	20	168	117	30	25
4	7.5	.20	.20	0	.10	2.5	2.6	20	174	113	28	22
5	11	8.0	.10	0	0	2.5	2.8	27	174	108	24	17
6	13	8.0	0	0	0	2.5	3.6	38	178	92	22	16
7	14	3.0	0	0	0	2.5	3.6	34	180	92	21	16
8	13	.56	0	0	0	2.8	3.6	21	182	91	23	14
9	13	.87	0	0	0	2.8	3.6	18	162	91	23	13
10	12	1.4	0	0	0	3.0	3.6	20	132	90	21	15
11	11	2.8	0	0	0	6.0	3.6	20	132	90	18	16
12	11	2.8	0	0	0	10	3.6	17	134	88	18	13
13	10	2.8	0	0	0	14	5.4	18	149	88	18	13
14	12	2.8	0	0	0	15	7.5	22	166	88	18	12
15	13	2.6	0	0	1.5	20	12	29	166	86	16	11
16	12	2.8	0	0	1.5	16	13	31	121	85	17	10
17	14	3.2	0	0	1.5	12	13	26	168	84	16	9.8
18	15	3.0	0	0	1.5	2.1	12	25	166	80	14	10
19	7.8	2.5	0	0	1.5	12	12	26	162	78	20	9.8
20	5.9	2.5	0	2.0	1.5	21	13	27	154	75	28	9.0
21	9.4	2.5	0	3.0	1.5	1.4	12	28	151	71	27	9.0
22	9.0	3.0	0	.20	1.5	2.6	11	28	140	66	26	9.0
23	7.8	3.0	0	0	1.5	5.6	9.4	24	134	76	26	8.6
24	9.0	3.0	0	0	1.5	5.6	7.5	30	132	96	27	8.2
25	9.4	2.5	0	0	1.5	5.6	7.5	33	131	76	27	5.7
26	8.6	2.5	0	0	1.5	5.6	5.6	34	129	31	27	5.9
27	7.8	2.5	0	0	1.5	5.6	5.4	38	127	28	28	6.2
28	5.9	2.5	0	0	1.5	4.5	12	84	125	28	29	6.2
29	5.9	2.5	0	0	1.5	4.1	40	85	124	27	28	6.2
30	5.9	2.5	0	0	-----	2.8	39	86	122	26	26	6.2
31	5.6	-----	0	3.0	-----	2.4	-----	118	-----	25	26	-----
TOTAL	305.4	81.20	3.55	8.20	26.60	198.3	278.1	1,082	4,511	2,424	728	374.8
MEAN	9.85	2.71	.11	.26	.92	6.40	9.27	34.9	150	78.2	23.5	12.5
MAX	15	8.0	2.0	3.0	2.5	21	40	118	182	120	30	26
MIN	5.6	.20	0	0	0	1.4	2.6	17	121	25	14	5.7
AC-FT	606	161	7.0	16	53	393	552	2,150	8,950	4,810	1,440	743

CAL YR 1971 TOTAL 9,307.75 MEAN 25.5 MAX 178 MIN 0 AC-FT 18,460
WTR YR 1972 TOTAL 10,021.15 MEAN 27.4 MAX 182 MIN 0 AC-FT 19,880

NOTE.--No gage-height record Nov. 29 to Jan. 19, Jan. 22 to Mar. 7.

YELLOWSTONE RIVER BASIN

06262300 NORTH FORK OWL CREEK ABOVE BASIN RANCH, NEAR ANCHOR, WYO.

LOCATION.--Lat 43°41'21", long 108°50'24", in NW¼SW¼SE¼ sec.15, T.43 N., R.100 W., Hot Springs County, on right bank 0.1 mile downstream from Anchor Dam road, 1.1 miles southwest of Anchor, and 32 miles west of Thermopolis. Prior to Sept. 6, 1972, at site 0.5 mile downstream.

DRAINAGE AREA.--61 sq mi, approximately.

PERIOD OF RECORD.--April 1962 to current year. Published as "below Cup Creek, near Anchor" 1962-67.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (from topographic map). Prior to Oct. 1, 1967, at site 0.1 mile upstream at different datum. Oct. 1, 1967, to Sept. 5, 1972, at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--10 years, 13.5 cfs (9,780 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 177 cfs about May 31 (gage height, 2.78 ft); no flow Dec. 16-19, Sept. 2-8, 13-25.

Period of record: Maximum discharge, 1,370 cfs June 15, 1963, computation of peak flow through culvert and over embankment; no flow for many days in 1964-67, 1970-72.

REMARKS.--Records poor. Several small reservoirs above station used for storage of stock and irrigation water. Diversion above station into Basin Ranch ditch for irrigation of about 820 acres below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	5.6	1.0	1.3	1.0	9.0	8.3	16	100	11	.90	.10
2	5.0	5.0	1.0	1.2	1.0	8.0	10	14	95	10	.80	0
3	9.2	4.7	1.0	1.1	1.0	7.0	10	18	90	8.0	.75	0
4	11	4.0	1.0	1.0	1.1	8.3	11	20	81	6.0	.70	0
5	11	4.1	1.0	1.0	1.3	7.3	18	26	80	6.6	.70	0
6	9.6	4.4	1.1	1.0	1.4	17	20	24	73	9.0	.66	0
7	8.0	5.4	1.0	.90	1.4	8.0	17	29	77	8.0	.64	0
8	7.2	3.8	.70	.75	1.3	6.5	13	22	60	4.7	.64	0
9	6.5	3.1	.50	.50	1.3	7.6	11	21	70	4.1	.62	.01
10	6.5	2.5	.60	.45	1.2	23	13	29	57	3.8	.58	.20
11	6.5	2.5	.60	.40	1.4	39	12	25	52	3.8	.54	.39
12	6.5	2.8	.50	.35	1.5	34	11	24	42	3.8	.52	.07
13	7.2	2.8	.50	.30	1.4	37	9.6	27	37	2.8	.56	0
14	6.8	1.7	.50	.25	1.4	36	8.7	41	37	1.9	.58	0
15	6.6	1.7	.50	.27	2.0	31	10	52	33	1.9	.54	0
16	7.0	1.7	0	.50	2.5	38	12	52	32	1.5	.54	0
17	7.4	1.5	0	.80	3.0	43	8.3	59	33	1.4	.54	0
18	8.0	.60	0	2.0	3.5	40	5.7	55	25	1.2	.50	0
19	8.4	.56	0	3.0	5.0	35	6.1	60	20	1.2	3.0	0
20	9.0	1.5	.30	3.5	7.8	25	5.0	62	15	1.2	4.0	0
21	8.5	1.2	.50	3.5	8.0	20	6.1	78	16	1.3	5.0	0
22	10	1.0	.60	3.0	7.2	20	7.2	49	17	1.1	4.5	0
23	14	.90	1.0	3.0	6.8	18	8.3	36	17	1.0	4.0	0
24	12	1.0	1.3	2.7	6.4	12	13	38	13	.90	6.0	0
25	10	1.2	1.5	2.5	6.4	14	16	40	10	.90	10	0
26	7.0	1.1	1.3	2.0	6.8	10	10	38	8.0	.88	8.0	.08
27	6.0	1.0	1.0	1.7	7.0	4.1	7.6	50	9.0	.95	4.0	.28
28	5.0	1.0	.75	1.5	15	4.7	10	60	10	1.2	2.0	.06
29	4.5	1.0	.80	1.3	10	7.6	13	70	12	.86	1.5	.06
30	5.0	1.0	1.0	1.0	-----	5.0	15	80	12	.68	1.0	.05
31	5.4	-----	1.4	1.0	-----	8.0	-----	110	-----	1.0	.40	-----
TOTAL	237.9	70.36	22.95	43.77	115.1	583.1	325.9	1,325	1,233.0	102.67	64.71	1.30
MEAN	7.67	2.35	.74	1.41	3.57	18.8	10.9	42.7	41.1	3.31	2.09	.043
MAX	14	5.6	1.5	3.5	15	43	20	110	100	11	10	.39
MIN	3.1	.56	0	.25	1.0	4.1	5.0	14	8.0	.68	.40	0
AC-FT	472	140	46	87	228	1,160	646	2,630	2,450	204	128	2.6

CAL YR 1971 TOTAL 4,018.45 MEAN 11.0 MAX 140 MIN 0 AC-FT 7,970
WTR YR 1972 TOTAL 4,125.76 MEAN 11.3 MAX 110 MIN 0 AC-FT 8,180

PEAK DISCHARGE (BASE, 160 CFS)

NOTE.--No gage-height record Dec. 1 to Feb. 18,
May 24 to June 2, July 31 to Sept. 5.

DATE TIME G.H.T. DISCHARGE

a5-31 Unknown 2.78 177

a About.

YELLOWSTONE RIVER BASIN

43

06265800 GOOSEBERRY CREEK AT DICKIE, WYO.

LOCATION.--Lat 44°00'00", long 108°45'25", in NE¼ sec.32, T.47 N., R.99 W., Hot Springs County, at left downstream wingwall of county bridge, 0.6 mile downstream from Middle Creek, and 0.8 mile northwest of Dickie.

DRAINAGE AREA.--95.0 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 12.2 cfs (8,840 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 139 cfs June 10 (gage height, 2.07 ft); maximum gage height, 4.07 ft Feb. 22 (backwater from ice); minimum daily discharge, 2.1 cfs Jan. 26.

Period of record: Maximum discharge, 1,130 cfs June 15, 1963 (gage height, 5.66 ft), from rating curve extended above 170 cfs on basis of slope-area measurement of peak flow; no flow Sept. 8-13, 1959, Jan. 28 to Feb. 8, Aug. 5, 6, 18-25, 1961, Jan. 5-9, Aug. 19, 1970.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.0	3.5	3.0	2.4	35	7.0	9.6	57	7.6	20	7.3
2	8.4	8.0	3.0	2.7	2.3	20	7.6	14	57	7.3	28	6.2
3	8.0	9.0	3.0	2.5	2.3	15	5.3	15	58	8.8	22	5.3
4	9.2	12	3.5	2.4	2.4	17	6.6	14	59	10	14	5.0
5	11	15	3.7	2.5	2.8	20	8.0	16	53	6.2	12	4.5
6	11	13	3.9	2.8	2.9	25	9.6	17	48	3.4	11	5.3
7	8.8	11	3.0	3.1	3.0	20	9.6	18	49	5.3	10	5.0
8	7.6	11	2.6	3.2	3.0	18	7.6	18	51	3.4	8.8	4.5
9	7.0	11	2.7	3.3	3.0	25	8.0	19	63	2.5	8.0	4.0
10	6.2	12	2.9	3.2	3.0	35	7.6	21	82	3.2	7.6	3.8
11	5.9	12	3.0	3.3	2.8	30	8.0	23	59	4.0	7.0	3.6
12	5.6	13	2.9	3.2	3.0	25	7.6	23	48	3.8	6.6	3.6
13	5.6	10	2.7	2.8	3.2	20	7.3	20	42	2.2	6.2	3.4
14	6.2	10	2.6	2.5	3.1	19	7.0	22	35	2.2	5.6	3.4
15	8.4	7.5	2.7	2.5	2.9	18	6.6	29	33	3.0	5.3	3.4
16	8.0	6.5	2.8	2.7	3.3	25	6.2	36	31	2.8	5.0	3.0
17	7.6	6.0	2.9	2.9	3.2	34	6.6	45	25	4.0	4.7	2.8
18	12	5.5	3.0	3.1	3.3	26	7.3	69	21	6.6	12	2.6
19	8.8	6.5	2.9	3.0	3.5	21	6.2	82	20	6.6	12	2.6
20	11	8.0	2.9	2.9	10	20	6.6	96	21	10	14	2.6
21	11	8.0	3.0	3.3	15	12	8.0	94	17	10	12	2.6
22	9.2	7.5	3.1	3.3	25	13	7.3	90	15	5.9	11	3.2
23	9.2	7.2	3.2	3.1	90	17	5.6	78	13	4.0	29	3.4
24	9.2	6.0	3.3	2.7	70	10	6.2	69	12	3.8	38	3.4
25	8.8	6.4	3.4	2.4	60	10	7.6	67	12	3.8	13	3.6
26	8.4	5.5	2.5	2.1	40	9.2	10	59	12	3.6	9.2	4.0
27	7.6	5.0	2.5	2.3	30	6.6	9.6	55	12	4.0	7.3	3.8
28	6.0	5.0	2.6	2.6	50	5.9	9.2	51	12	8.4	6.6	3.6
29	6.0	4.5	2.8	3.0	60	6.6	9.6	52	11	5.9	5.9	3.8
30	5.8	4.0	3.0	2.8	-----	7.3	12	51	9.6	4.7	5.6	3.6
31	6.2	-----	3.0	2.6	-----	8.4	-----	52	-----	18	6.4	-----
TOTAL	251.3	253.1	92.6	87.8	505.4	574.0	231.4	1,324.6	1,037.6	175.0	363.8	116.9
MEAN	8.11	8.44	2.99	2.83	17.4	18.5	7.71	42.7	34.6	5.65	11.7	3.90
MAX	12	15	3.9	3.3	90	35	12	96	82	18	38	7.3
MIN	5.6	4.0	2.5	2.1	2.3	5.9	5.3	9.6	2.2	2.2	4.7	2.6
AC-FT	498	502	184	174	1,000	1,140	459	2,630	2,060	347	722	232
CAL YR 1971	TOTAL 5,333.30 MEAN 14.6 MAX 248 MIN .10 AC-FT 10,580											
WTR YR 1972	TOTAL 5,013.50 MEAN 13.7 MAX 96 MIN 2.1 AC-FT 9,940											

PEAK DISCHARGE (BASE, 150 CFS).--No peak above base.

NOTE.--No gage-height record Jan. 4 to Mar. 17.

YELLOWSTONE RIVER BASIN

06267400 EAST FORK NOWATER CREEK NEAR COLTER, WYO.

LOCATION.--Lat 43°54'55", long 107°55'46", in SE¼NE¼ sec.31, T.46 N., R.92 W., Washakie County, on left bank 50 ft upstream from county road, 1.8 miles upstream from mouth, 5.2 miles southeast of Colter, and 7 miles south of Worland.

DRAINAGE AREA.--149 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge recorded, 2,300 cfs Feb. 20 (gage height, 3.52 ft), from rating curve extended above 400 cfs on basis of velocity-area study, but may have been greater during period of no gage-height record Oct. 1 to Nov. 22; no flow most of year.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APP	MAY	JUN	JUL	AUG	SEP
1	120				0	24			0		0	
2	500				0	11			0		C	
3	250				0	2.1			.50		.53	
4	100				0	.12			59		.14	
5	30				0	0			.04		C	
6	5.0				0	0			0		C	
7	1.0				0	10			0		0	
8	0				0	.24			0		0	
9	0				0	0			0		C	
10	0				0	0			0		0	
11	C				0	0			0		C	
12	0				0	0			0		0	
13	0				0	0			0		C	
14	1.0				0	0			0		C	
15	2.0				0	0			0		0	
16	3.0				0	0			0		C	
17	2.0				5.0	0			2.7		0	
18	1,000				80	0			0		C	
19	200				200	0			50		0	
20	50				636	0			4.8		C	
21	10				504	0			.04		0	
22	1.0				476	0			0		C	
23	C				197	0			0		C	
24	0				56	0			0		100	
25	0				36	0			0		.69	
26	0				33	0			0		0	
27	0				221	0			0		C	
28	0				178	0			0		0	
29	0				58	0			0		0	
30	0				-----	0			0		C	
31	0	-----			-----	0	-----		-----		0	-----
TOTAL	2,275.0	0	0	0	2,680.0	47.46	0	0	117.08	0	101.36	C
MEAN	73.4	0	0	0	92.4	1.53	0	0	3.90	0	3.27	0
MAX	1,000	0	0	0	636	24	0	0	59	0	100	C
MIN	0	0	0	0	0	0	C	0	0	0	0	C
AC-FT	4,510	0	0	0	5,320	94	0	0	232	0	201	0

WTR YR 1972 TOTAL 5,220.90 MEAN 14.3 MAX 1,000 MIN 0 AC-FT 10,360

NOTE.--No gage-height record Oct. 1 to Nov. 22.

YELLOWSTONE RIVER BASIN

45

06268500 FIFTEEN MILE CREEK NEAR WORLAND, WYO.

LOCATION.--Lat 44°01'14", long 108°00'42", in NW¼NW¼NE¼ sec.27, T.47 N., R.93 W., Washakie County, on left bank 300 ft upstream from Bighorn Canal spillway, 2.0 miles upstream from mouth, and 2.8 miles west of Worland.

DRAINAGE AREA.--518 sq mi.

PERIOD OF RECORD.--March 1951 to December 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,080 ft (by barometer). Prior to Oct. 1, 1956, at site 400 ft upstream at datum 5.52 ft higher. Oct. 1, 1956, to Sept. 30, 1969, at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--21 years, 10.9 cfs (7,900 acre-ft per year).

EXTREMES.--Water year 1972: Maximum discharge, 1,690 cfs Oct. 19 (gage height, 6.12 ft); no flow for many days. October to December 1972: Maximum discharge, 37 cfs Oct. 5 (gage height, 1.78 ft); no flow for many days. Period of record: Maximum discharge, 3,300 cfs May 22, 1952 (gage height, 5.77 ft, site and datum then in use); no flow for many days in each year.

REMARKS.--Records poor. Bureau of Land Management has extensive spreader systems on some of the tributaries above station. Water-quality records for the 1972 and 1973 water years are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	1.5			0	160			0	0	3.5	0
2	450	1.6			0	79			0	0	294	.77
3	293	1.6			0	41			0	0	728	87
4	131	1.6			0	23			1.2	6.2	132	12
5	59	1.8			0	19			.88	6.0	79	1.4
6	30	2.1			0	38			0	1.8	40	.02
7	21	1.2			0	124			0	.04	33	0
8	18	.56			0	24			0	0	22	0
9	15	.56			0	18			0	0	16	0
10	14	1.8			0	15			0	0	14	0
11	13	1.2			0	14			0	0	3.0	0
12	9.0	.56			0	7.5			0	0	0	0
13	2.4	2.4			0	6.4			0	0	0	0
14	.35	7.5			0	3.0			0	0	0	0
15	.13	9.0			0	1.3			0	0	0	0
16	.13	5.0			0	.04			0	0	0	0
17	7.5	.88			0	0			0	0	0	0
18	851	.25			3.0	0			0	0	0	0
19	1,100	.21			12	0			15	0	0	0
20	370	.21			26	0			15	0	0	0
21	235	.17			40	0			6.7	63	12	0
22	148	.02			230	0			2.8	17	15	0
23	100	0			214	0			.10	0	7.9	0
24	58	0			125	0			0	0	148	0
25	47	0			114	12			0	0	31	0
26	43	0			42	6.0			0	0	12	0
27	39	0			34	.21			0	0	1.9	0
28	29	0			287	0			0	0	.04	0
29	18	0			554	0			0	0	0	0
30	3.2	0			-----	0			0	0	0	0
31	1.5	-----			-----	0	-----		-----	0	0	-----
TOTAL	4,207.21	41.72	0	0	1,681.0	591.45	0	0	41.68	94.04	1,592.74	101.19
MEAN	136	1.39	0	0	58.0	19.1	0	0	1.39	3.03	51.4	3.37
MAX	1,100	9.0	0	0	554	160	0	0	15	63	728	87
MIN	.13	0	0	0	0	0	0	0	0	0	0	0
AC-FT	8,350	83	0	0	3,330	1,170	0	0	83	187	3,160	201
CAL YR 1971	TOTAL 7,711.74	MEAN 21.1	MAX 1,100	MIN 0	AC-FT 15,300							
WTR YR 1972	TOTAL 8,351.03	MEAN 22.8	MAX 1,100	MIN 0	AC-FT 16,560							

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-2	1730	3.71	582	2-29	1230	4.28	776
10-19	1100	6.12	1,690	8-3	0030	5.18	1,220

YELLOWSTONE RIVER BASIN

06268500 FIFTEEN MILE CREEK NEAR WORLAND, WYO.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO DECEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0											
2	0											
3	0											
4	0											
5	16											
6	14											
7	7.1											
8	1.0											
9	.25											
10	.21											
11	0											
12	0											
13	0											
14	0											
15	0											
16	0											
17	0											
18	0											
19	0											
20	0											
21	0											
22	0											
23	0											
24	0											
25	0											
26	11											
27	7.8											
28	2.6											
29	.76											
30	0											
31	0	-----			-----		-----		-----		-----	
TOTAL	60.72	0	0									
MEAN	1.96	0	0									
MAX	16	0	0									
MIN	0	0	0									
AC-FT	120	0	0									

CAL YR 1972 TOTAL 4,162.82 MEAN 11.4 MAX 728 MIN 0 AC-FT 8,260

PEAK DISCHARGE (BASE, 400 CFS).--No peak above base.

YELLOWSTONE RIVER BASIN

47

06271000 TENSLEEP CREEK NEAR TEN SLEEP, WYO.

LOCATION.--Lat 44°03'28", long 107°23'14", in NW¼SW¼NW¼ sec.12, T.47 N., R.88 W., Washakie County, on left bank 0.3 mile downstream from Canyon Creek and 3.2 miles northeast of Ten Sleep.

DRAINAGE AREA.--247 sq mi.

PERIOD OF RECORD.--September 1910 to December 1912, October 1914 to November 1924, October 1943 to October 1971, April to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 4,667.59 ft above mean sea level. Prior to Oct. 1, 1916, non-recording gage at datum 1.00 ft higher. Oct. 1, 1916, to May 10, 1918, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--40 years (1910-12, 1914-24, 1943-71), 146 cfs (105,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,720 cfs June 8 (gage height, 6.87 ft); minimum daily during period of operation, 40 cfs Apr. 3.
Period of record: Maximum discharge, 2,890 cfs June 15, 1924 (gage height, 7.05 ft); minimum daily, 26 cfs Sept. 12, 1966.

REMARKS.--Records fair. Diversions for irrigation of about 350 acres above station.

REVISIONS (WATER YEARS).--WSP 1239: 1916, 1918(M), 1924(M), 1945(M), 1948(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50						43	71	1,110	284	135	216
2	56						42	67	1,350	326	171	203
3	57						40	70	1,400	328	319	176
4	61						42	81	1,300	260	229	165
5	59						43	104	1,150	239	191	146
6	61						44	96	1,140	247	167	157
7	63						44	102	1,180	268	145	194
8	61						42	95	1,390	242	126	176
9	59						41	117	1,380	229	115	157
10	56						42	141	1,210	219	105	149
11	56						42	129	939	220	100	132
12	54						45	129	871	208	94	122
13	54						44	119	781	203	86	114
14	56						43	136	611	203	84	107
15	60						43	188	503	179	82	100
16	59						44	263	440	154	78	95
17	61						46	374	436	174	74	90
18	74						46	482	520	188	72	80
19	70						45	605	510	159	88	78
20	69						44	790	505	149	88	76
21	71						44	1,130	382	159	80	72
22	66						44	1,210	358	154	92	70
23	63						42	727	358	136	131	68
24	65						43	575	354	126	253	68
25	66						48	595	366	119	222	68
26	63						49	505	366	117	219	66
27	65						46	450	303	108	188	70
28	57						47	432	246	113	172	66
29	52						51	530	256	108	155	65
30	58						75	680	281	102	166	65
31	62	-----			-----		-----	850	-----	106	197	-----
TOTAL	1,884						1,354	11,843	21,996	5,827	4,424	3,411
MEAN	60.8						45.1	382	733	188	143	114
MAX	74						75	1,210	1,400	328	319	216
MIN	50						40	67	246	102	72	65
AC-FT	3,740						2,690	23,490	43,630	11,560	8,780	6,770

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-22	0500	5.46	1,420
6- 8	2330	6.87	2,720

YELLOWSTONE RIVER BASIN

06273000 MEDICINE LODGE CREEK NEAR HYATTVILLE, WYO.

LOCATION.--Lat 44°17'37", long 107°32'23", in NE¼SE¼NE¼ sec.21, T.50 N., R.89 W., Big Horn County, on left bank 0.3 mile downstream from Dry Medicine Lodge Creek and 4.5 miles northeast of Hyattville.

DRAINAGE AREA.--86.8 sq mi.

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 4,780 ft (from topographic map). Prior to June 24, 1943, nonrecording gage at different datum. June 24, 1943, to June 5, 1968, water-stage recorder at datum 2.00 ft higher.

AVERAGE DISCHARGE.--30 years, 34.6 cfs (25,070 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 408 cfs June 3 (gage height, 3.91 ft); minimum daily, 10 cfs Feb. 10.

Period of record: Maximum discharge, 1,160 cfs June 24, 1945 (gage height, 6.10 ft, present datum, from floodmark), from rating curve extended above 550 cfs; minimum daily, 4.1 cfs Feb. 2, 1963.

REMARKS.--Records good. Diversion for irrigation of about 40 acres above station.

REVISIONS (WATER YEARS).--WSP 1239: 1945, 1946(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	11	12	11	12	11	14	310	69	32	27
2	15	15	11	12	11	12	11	13	331	78	36	27
3	14	14	11	12	11	12	11	13	328	82	50	26
4	15	14	11	12	11	12	11	14	296	76	44	25
5	16	14	11	12	11	12	11	15	286	81	36	24
6	17	14	11	12	11	12	11	15	260	70	32	25
7	16	14	11	12	11	12	12	15	260	69	29	30
8	16	14	11	12	11	12	11	16	254	64	28	33
9	16	13	11	12	11	12	11	17	237	61	27	30
10	15	13	11	12	10	12	11	19	231	56	25	28
11	15	13	11	12	11	12	11	18	208	54	24	28
12	15	13	11	12	11	12	12	18	196	51	24	27
13	15	13	11	11	11	12	11	17	174	50	23	25
14	16	13	11	11	11	12	11	19	145	48	22	24
15	17	13	11	11	11	12	11	27	140	46	22	24
16	17	13	11	11	11	12	11	44	128	43	21	23
17	17	13	11	11	11	12	12	74	124	44	21	22
18	19	13	11	11	11	12	12	99	121	45	20	22
19	17	13	11	11	11	12	11	122	122	41	20	21
20	17	13	11	11	11	12	11	138	124	39	21	21
21	17	12	11	11	11	12	11	196	109	37	20	20
22	16	12	11	11	12	11	11	239	103	36	26	20
23	15	12	11	11	12	12	11	169	97	33	27	20
24	16	12	11	11	12	12	11	146	96	31	49	20
25	16	12	11	11	12	12	11	167	101	29	38	20
26	16	12	11	11	11	12	11	146	97	28	35	19
27	16	12	11	11	12	11	11	140	87	27	31	20
28	14	12	11	11	13	11	12	126	76	28	29	20
29	14	12	11	11	12	11	13	163	74	28	27	19
30	15	12	12	11	-----	11	14	206	72	27	26	19
31	16	-----	12	11	-----	11	-----	262	-----	26	26	-----
TOTAL	490	390	343	353	326	366	340	2,687	5,187	1,497	891	709
MEAN	15.8	13.0	11.1	11.4	11.2	11.8	11.3	86.7	173	48.3	28.7	23.6
MAX	19	15	12	12	13	12	14	262	331	82	50	33
MIN	14	12	11	11	10	11	11	13	72	26	20	19
AC-FT	972	774	680	700	647	726	674	5,330	10,290	2,970	1,770	1,410
CAL YR 1971	TOTAL 12,666.2	MEAN 34.7	MAX 382	MIN 9.4	AC-FT 25,120							
WTR YR 1972	TOTAL 13,579.0	MEAN 37.1	MAX 331	MIN 10	AC-FT 26,930							

PEAK DISCHARGE (BASE, 350 CFS)

DATE TIME G.H.T. DISCHARGE

6- 3 0100 3.91 408

YELLOWSTONE RIVER BASIN

49

06274800 WOOD RIVER NEAR KIRWIN, WYO.

LOCATION.--Lat 43°52'10", long 109°18'39", T.45 N., R.104 W., Park County, Shoshone National Forest, on left bank 0.8 mile upstream from Cascade Creek, 0.8 mile southwest of Kirwin, and 1.1 miles downstream from Horse Creek.

DRAINAGE AREA.--7.66 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,380 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 216 cfs June 8 (gage height, 5.30 ft); maximum gage height, 5.31 ft Oct. 28 (backwater from ice); minimum daily discharge, 0.65 cfs Jan. 28.

Period of record: Maximum discharge, 338 cfs June 23, 1971 (gage height, 5.27 ft); maximum gage height, 5.31 ft Oct. 28, 1971 (backwater from ice); minimum daily discharge, 0.50 cfs Jan. 13, 1971.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	4.0	2.0	1.5	.70	.84	.84	2.2	58	53	11	13
2	5.1	4.0	2.0	1.3	.70	.84	.84	1.8	58	17	14	13
3	5.6	3.6	2.0	1.3	.70	.84	.84	1.8	66	16	13	13
4	5.6	3.6	2.0	1.3	.70	.84	.84	3.0	64	22	12	13
5	5.9	3.6	2.0	1.3	.70	.97	.84	3.0	62	29	11	13
6	5.9	3.6	2.0	1.3	.70	.97	.84	3.6	70	18	12	13
7	5.9	3.6	1.7	1.3	.80	.97	.84	2.7	90	33	13	12
8	5.9	3.6	1.7	1.3	.80	.97	.84	2.4	120	32	12	12
9	5.9	3.6	1.7	1.3	.80	.97	.84	2.0	115	32	12	12
10	5.9	3.6	1.7	1.3	.80	.97	.84	2.0	100	28	12	14
11	5.9	3.6	1.7	1.3	.84	.97	.84	2.0	94	28	12	14
12	5.9	3.6	1.5	1.3	.84	.97	.84	2.0	80	30	12	13
13	5.9	3.6	1.5	1.1	.84	.97	.84	2.4	60	35	12	13
14	5.5	3.3	1.5	1.1	.84	.97	.84	5.1	45	22	12	13
15	5.2	3.3	1.5	1.1	.84	1.1	.84	5.5	40	20	12	13
16	5.0	3.0	1.5	1.1	.84	1.1	.84	12	45	21	11	13
17	5.2	3.0	1.5	1.1	.84	1.1	.84	18	42	6.8	11	14
18	5.6	2.7	1.5	1.1	.84	.97	.84	17	37	17	9.5	14
19	5.6	2.7	1.5	1.1	.84	.97	.84	18	22	5.1	15	14
20	6.0	2.7	1.5	1.1	.84	.97	.84	18	31	5.5	16	14
21	5.6	2.7	1.5	1.1	.84	.97	.84	22	58	5.5	14	14
22	5.5	2.7	1.5	1.1	.84	.97	.84	18	81	7.2	12	13
23	5.5	2.4	1.5	1.1	.84	1.4	.84	18	52	11	12	13
24	5.5	2.4	1.5	1.0	.84	1.4	.97	12	40	14	14	13
25	5.5	2.4	1.5	.90	.84	1.1	1.4	12	38	20	17	9.5
26	5.5	2.4	1.5	.80	.84	.84	1.2	13	37	17	16	8.3
27	5.4	2.4	1.5	.70	.84	.84	1.4	18	40	15	16	9.0
28	5.1	2.4	1.5	.65	.84	.84	2.2	34	58	13	15	8.3
29	4.5	2.4	1.5	.70	.84	.84	2.7	38	67	12	15	8.3
30	4.5	2.2	1.5	.70	-----	.84	2.4	47	72	10	15	8.3
31	4.0	-----	1.5	.70	-----	.84	-----	35	-----	10	15	-----
TOTAL	170.5	92.7	50.5	34.05	23.36	30.15	31.59	395.5	1,842	605.1	405.5	367.7
MEAN	5.50	3.09	1.63	1.10	.81	.97	1.05	12.8	61.4	19.5	13.1	12.3
MAX	6.4	4.0	2.0	1.5	.84	1.4	2.7	47	120	53	17	14
MIN	4.0	2.2	1.5	.65	.70	.84	.84	1.8	22	5.1	9.5	8.3
AC-FT	338	184	100	68	46	60	63	784	3,650	1,200	804	729

CAL YR 1971 TOTAL 5,254.63 MEAN 14.4 MAX 180 MIN .50 AC-FT 10,420
WTR YR 1972 TOTAL 4,048.65 MEAN 11.1 MAX 120 MIN .65 AC-FT 8,030

NOTE.--No gage-height record Dec. 1 to Feb. 10, June 4-16.

YELLOWSTONE RIVER BASIN

06275000 WOOD RIVER AT SUNSHINE, WYO.

LOCATION.--Lat 44°02'15", long 108°58'24", in NW¼SW¼ sec.15, T.47 N., R.101 W., Park County, on right bank at bridge on county road, 1 mile downstream from Ernest May Ranch, 5.2 miles downstream from Dick Creek, and 10 miles southwest of Meeteetse.

DRAINAGE AREA.--194 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (from topographic map). Prior to Sept. 18, 1952, and Oct. 28, 1953, to June 15, 1963, water-stage recorder at site 2 miles upstream at different datum. Sept. 18, 1952, to Oct. 27, 1953, nonrecording gage at site 2 miles upstream at different datum. June 16, 1963, to Aug. 13, 1967, water-stage recorder at site 1.4 miles upstream at different datum. Aug. 14, 1967, to Oct. 5, 1967, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--27 years, 117 cfs (84,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,250 cfs June 7 (gage height, 7.85 ft); minimum daily, 33 cfs Jan. 26.

Period of record: Maximum discharge, 5,080 cfs June 15, 1963 (gage height, 7.00 ft, from floodmark, site and datum then in use), from contracted-opening measurement of peak flow; minimum daily, 2.8 cfs Oct. 22, 1960.

REMARKS.--Records fair except those for winter period, which are poor. Diversions above station for irrigation of about 3,200 acres, of which about 1,000 acres lies below station.

REVISIONS (WATER YEARS).--WSP 1309: 1947(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	96	58	64	37	45	53	78	832	256	119	185
2	99	94	58	56	35	42	54	78	922	221	136	168
3	98	83	60	48	36	39	53	81	880	162	126	156
4	115	87	64	52	38	38	52	90	928	132	116	145
5	126	81	64	58	40	40	55	99	892	134	112	141
6	124	78	64	64	42	42	62	87	792	168	109	137
7	118	81	56	62	42	40	64	99	865	194	112	129
8	119	79	50	60	44	47	58	87	982	192	110	124
9	115	77	54	60	44	54	57	87	850	181	116	119
10	113	76	54	58	44	62	59	103	754	166	108	130
11	112	77	52	60	42	60	56	98	743	162	105	126
12	110	77	52	62	42	66	57	92	625	154	110	118
13	109	78	54	54	42	70	57	88	542	152	110	113
14	112	76	56	46	37	68	56	127	464	158	110	110
15	108	75	56	50	37	64	57	172	444	143	106	108
16	106	74	56	52	39	73	60	204	417	145	109	105
17	110	73	56	54	39	79	60	248	444	141	109	103
18	119	63	60	54	41	79	57	264	417	126	103	102
19	109	72	64	54	44	77	56	326	366	134	169	99
20	113	74	68	52	47	66	54	319	300	124	174	97
21	116	69	68	52	47	66	58	440	297	132	146	96
22	108	67	66	50	44	72	57	417	310	108	130	96
23	112	63	64	50	43	75	56	332	342	112	197	94
24	112	63	60	45	38	60	62	316	310	118	242	92
25	110	64	62	40	37	59	77	339	256	116	234	90
26	106	60	62	33	36	56	68	313	216	116	216	85
27	102	67	62	34	40	50	64	352	177	116	199	89
28	81	61	52	38	44	52	75	425	197	115	185	89
29	95	56	56	42	50	53	105	480	239	115	172	87
30	98	54	58	39	-----	54	99	556	253	115	170	87
31	99	-----	60	38	-----	56	-----	630	-----	119	170	-----
TOTAL	3,373	2,185	1,826	1,581	1,191	1,804	1,858	7,427	16,056	4,527	4,430	3,420
MEAN	109	72.8	58.5	51.0	41.1	58.2	61.9	240	535	146	143	114
MAX	126	96	68	64	50	79	105	630	982	256	242	185
MIN	81	54	50	33	35	38	52	78	177	108	103	85
AC-FT	6,690	4,330	3,620	3,140	2,360	3,580	3,690	14,730	31,850	9,980	8,790	6,780
CAL YR 1971	TOTAL 60,946	MEAN 167	MAX 1,040	MIN 19	AC-FT 120,900							
WTR YR 1972	TOTAL 49,678	MEAN 136	MAX 982	MIN 33	AC-FT 98,540							

PEAK DISCHARGE (BASE, 830 CFS)

DATE TIME G.H.T. DISCHARGE

6- 7 2230 7.85 1,250

YELLOWSTONE RIVER BASIN

51

06276500 GREYBULL RIVER AT MEETEETSE, WYO.

LOCATION.--Lat 44°09'20", long 108°52'35", in sec.4, T.48 N., R.100 W., Park County, on right bank at Meeteetse, 1,800 ft upstream from bridge on State Highway 120, and 3 miles upstream from Meeteetse Creek.

DRAINAGE AREA.--681 sq mi.

PERIOD OF RECORD.--June to December 1897, April to October 1903 (gage heights and discharge measurements only), July 1920 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 5,739.42 ft above mean sea level. See WSP 1916 for history of changes prior to Apr. 28, 1938. Apr. 28, 1938, to May 24, 1961, at site on left bank at datum 2.00 ft higher. May 25, 1961, to May 9, 1967, at site 100 ft downstream at present datum.

AVERAGE DISCHARGE.--51 years (1920-71), 347 cfs (251,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,450 cfs June 8 (gage height, 5.71 ft); minimum daily during period of operation, 68 cfs Apr. 3.

Period of record: Maximum discharge, 13,600 cfs June 15, 1963 (gage height, 9.20 ft, from floodmark), from rating curve extended above 4,600 cfs on basis of velocity-area study; minimum daily, 16 cfs Mar. 4, 1963.

REMARKS.--Records fair. Slight regulation by Sunshine Reservoir beginning May 1940 (capacity, 53,000 acre-ft). Diversions for irrigation of about 10,600 acres above station. Several diversions above station for irrigation below station.

REVISIONS (WATER YEARS).--WSP 1309: 1923(M), 1924, 1925(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160						71	141	1,790	722	518	297
2	146						72	138	1,780	673	396	287
3	141						68	143	1,550	502	267	267
4	155						71	150	1,240	410	223	253
5	181						78	236	1,250	377	292	244
6	168						79	262	1,180	592	330	244
7	155						81	297	1,490	673	282	231
8	149						75	253	2,220	693	267	223
9	146						75	248	2,660	673	307	218
10	138						96	313	2,370	673	297	244
11	136						101	302	2,100	664	287	248
12	136						97	257	1,850	664	297	231
13	136						96	292	1,660	713	318	223
14	138						94	353	1,510	752	364	223
15	141						96	390	1,440	683	436	210
16	141						101	410	1,380	646	377	231
17	138						103	480	1,380	655	341	223
18	155						99	559	1,220	567	292	218
19	141						97	619	1,080	610	396	203
20	143						100	473	826	583	341	199
21	149						120	683	752	683	287	196
22	143						110	713	794	534	240	192
23	143						120	502	848	534	346	188
24	143						140	510	804	518	396	181
25	143						146	495	619	502	292	188
26	141						128	451	526	487	253	192
27	138						112	534	429	526	236	207
28	128						128	988	466	542	236	203
29	146						196	1,180	655	510	346	196
30	171				-----		184	1,360	703	510	416	196
31	177	-----			-----		-----	1,600	-----	583	318	-----
TOTAL	4,566						3,134	15,412	38,562	18,454	9,994	6,656
MEAN	147						104	497	1,285	595	322	222
MAX	181						196	1,600	2,660	752	518	297
MIN	128						68	138	429	377	223	181
AC-FT	9,060						6,220	30,570	76,490	36,600	19,820	13,200

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 2	0130	5.04	2,350
6- 8	2400	5.71	3,450

YELLOWSTONE RIVER BASIN

06277500 GREYBULL RIVER NEAR BASIN, WYO.

LOCATION.--Lat 44°24'24", long 108°11'10", in NE¼NW¼SW¼ sec.8, T.51 N., R.94 W., Big Horn County, on right bank at upstream side of bridge on State Highway 0200, 3.0 miles upstream from Dorsey Creek, and 8 miles west of Basin.

DRAINAGE AREA.--1,115 sq mi.

PERIOD OF RECORD.--April 1930 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft (from topographic map). Prior to Sept. 30, 1930, nonrecording gage at site 250 ft downstream at datum 2.92 ft higher. Oct. 1, 1930, to Sept. 20, 1934, nonrecording gage and Sept. 21, 1934, to Apr. 14, 1936, water-stage recorder, at site 250 ft downstream at datum 1.92 ft higher. Apr. 15, 1936, to Aug. 13, 1951, at site 100 ft downstream at present datum. Aug. 14, 1951, to June 17, 1970, at site 300 ft downstream at present datum.

AVERAGE DISCHARGE.--42 years, 181 cfs (131,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,550 cfs June 9 (gage height, 5.79 ft); maximum gage height, not determined, Feb. 28 (backwater from ice); minimum daily discharge, 13 cfs May 4, 5.
Period of record: Maximum discharge, 19,400 cfs June 16, 1963 (gage height, 8.83 ft), from rating curve extended above 2,200 cfs on basis of contracted-opening measurement of peak flow; no flow at times in 1931-34, 1936, 1939.

REMARKS.--Records fair except those for winter period, which are poor. Slight regulation by Sunshine Reservoir beginning May 1940 (capacity, 53,000 acre-ft). Diversions above station for irrigation of about 63,300 acres, of which about 2,600 acres lies below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 826: 1936. WSP 1509: 1930-31, 1932-33(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	183	48	74	68	600	119	70	675	111	140	54
2	320	179	48	74	80	280	115	50	785	70	110	43
3	289	190	54	70	80	270	111	14	720	56	80	43
4	243	213	60	62	86	280	119	13	748	26	50	38
5	234	186	62	64	50	290	122	13	910	18	30	39
6	213	161	48	68	96	250	127	16	1,050	17	30	35
7	172	165	40	70	98	200	122	24	1,130	54	38	38
8	155	183	35	74	100	150	119	48	1,400	70	40	37
9	139	209	40	78	100	150	114	21	1,880	57	23	41
10	149	193	45	76	100	170	108	17	1,490	35	27	38
11	146	197	40	78	98	180	146	20	1,380	26	26	41
12	139	186	44	76	98	190	149	19	1,190	19	25	39
13	136	183	47	68	98	190	149	18	867	17	26	34
14	149	172	50	62	86	170	149	17	641	19	30	35
15	161	160	52	60	90	172	136	24	576	19	96	41
16	168	170	50	64	100	168	136	37	576	22	34	30
17	186	150	50	68	110	186	136	19	552	45	17	26
18	728	140	52	74	100	201	139	22	584	28	17	35
19	353	130	56	70	90	190	142	34	552	21	180	42
20	230	140	60	68	84	183	127	76	508	22	95	28
21	222	150	58	76	84	155	96	70	320	18	60	22
22	193	140	56	76	90	139	76	111	252	34	70	24
23	179	130	60	70	100	139	78	48	279	100	78	26
24	183	140	62	66	110	139	78	28	320	78	388	24
25	179	120	64	64	110	127	76	28	252	30	172	18
26	172	100	52	60	120	122	94	32	175	20	98	22
27	168	94	52	74	150	108	76	30	108	30	72	22
28	136	80	56	78	400	101	60	35	74	25	60	21
29	103	70	60	78	800	103	49	154	61	20	43	21
30	127	56	64	72	-----	103	74	266	96	20	90	21
31	175	-----	68	72	-----	119	-----	439	-----	50	139	-----
TOTAL	6,311	4,570	1,633	2,184	3,816	5,825	3,342	1,813	20,151	1,177	2,384	978
MEAN	204	152	52.7	70.5	132	188	111	58.5	672	38.0	76.9	32.6
MAX	728	213	68	78	800	600	149	439	1,880	111	388	54
MIN	103	56	35	60	68	101	49	13	61	17	17	18
AC-FT	12,520	9,060	3,240	4,320	7,570	11,550	6,630	3,600	39,670	2,330	4,730	1,940

CAL YR 1971 TOTAL 75,099 MEAN 206 MAX 2,210 MIN 16 AC-FT 149,000
WTR YR 1972 TOTAL 54,134 MEAN 148 MAX 1,880 MIN 13 AC-FT 107,500

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE
10-18	1800	4.98	1,340
6-9	1200	5.79	2,550

YELLOWSTONE RIVER BASIN

53

06278300 SHELL CREEK ABOVE SHELL RESERVOIR, WYO.

LOCATION.--Lat 44°30'29", long 107°24'11", in sec.1, T.52 N., R.88 W., Big Horn County, Bighorn National Forest, on right bank 0.2 mile upstream from Shell Reservoir, 1.1 miles downstream from Buckley Creek, 6 miles southeast of Shell Creek ranger station, and 19 miles east of Shell.

DRAINAGE AREA.--23.1 sq mi.

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1969, published as Shell Creek above Shell Creek Reservoir.

GAGE.--Water-stage recorder. Altitude of gage is 9,050 ft (from topographic map).

AVERAGE DISCHARGE.--16 years, 36.9 cfs (26,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 766 cfs June 2 (gage height, 5.86 ft); minimum daily, 0.95 cfs Feb. 25.

Period of record: Maximum discharge, 1,870 cfs June 15, 1963 (gage height, 7.84 ft, from floodmarks), from rating curve extended above 550 cfs on basis of velocity-area study; minimum daily, 0.60 cfs Mar. 7, 1967.

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

REVISIONS (WATER YEARS).--WSP 1629: 1958. WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.4	3.2	2.6	2.0	1.1	2.1	3.6	472	78	38	20
2	5.4	4.4	3.0	2.5	1.8	1.1	2.1	3.7	552	80	46	19
3	5.8	4.4	3.1	2.3	1.8	1.1	2.0	4.0	490	65	74	19
4	6.6	4.6	3.2	2.1	1.9	1.1	2.0	4.7	485	56	54	17
5	6.8	4.6	3.2	2.2	2.0	1.2	2.2	5.0	433	62	42	17
6	7.0	4.0	3.2	2.3	2.0	1.3	2.3	4.5	418	66	35	23
7	6.6	4.2	3.4	2.6	2.0	1.2	2.3	7.0	455	66	32	26
8	6.2	4.5	2.9	2.7	2.0	1.3	2.2	10	430	70	30	26
9	5.8	4.5	3.2	2.7	1.9	1.4	2.3	16	383	62	28	23
10	5.8	4.5	3.5	2.7	1.7	1.6	2.4	15	387	56	28	22
11	5.8	4.5	3.5	2.5	1.8	1.5	2.4	14	320	54	25	21
12	5.6	4.5	3.4	2.3	1.6	1.5	2.4	12	280	51	24	20
13	5.4	4.5	3.3	2.0	1.7	1.6	2.4	10	200	52	23	19
14	6.0	4.3	3.6	2.0	1.7	1.6	2.4	12	150	50	22	18
15	6.2	4.0	3.8	2.1	1.5	1.6	2.4	16	140	44	20	18
16	6.2	3.6	3.6	2.3	1.6	1.7	2.4	29	130	40	20	17
17	6.2	3.6	3.6	2.3	1.6	1.7	2.4	32	120	43	19	16
18	7.6	3.4	3.6	2.2	1.6	1.7	2.4	72	120	39	18	16
19	7.0	3.4	3.6	2.1	1.7	1.6	2.4	132	120	35	18	15
20	8.0	3.5	3.6	2.0	1.7	1.6	2.4	174	110	33	18	15
21	7.8	3.7	3.4	2.1	1.5	1.6	2.4	290	100	34	19	15
22	7.0	3.7	3.3	2.1	1.3	1.5	2.4	282	92	32	26	14
23	6.8	3.5	3.2	1.9	1.2	1.4	2.4	159	94	29	28	15
24	6.8	3.7	3.3	1.9	1.1	1.4	2.4	142	100	26	42	14
25	7.2	3.7	3.2	1.8	.95	1.6	2.7	164	110	24	34	14
26	7.0	3.7	3.1	1.6	1.0	1.9	2.6	139	90	23	29	16
27	6.0	3.3	2.8	1.5	1.0	1.8	2.7	110	80	23	25	15
28	5.2	3.3	2.7	1.7	1.1	1.7	2.8	109	70	25	22	15
29	4.5	3.4	2.6	1.7	1.2	1.9	3.4	169	72	22	20	16
30	4.0	3.5	2.5	1.6	-----	2.0	3.4	266	76	21	20	15
31	4.4	-----	2.5	1.9	-----	2.1	-----	385	-----	28	21	-----
TOTAL	192.1	118.9	100.1	66.3	45.95	47.4	73.1	2,791.5	7,079	1,389	900	536
MEAN	6.20	3.96	3.23	2.14	1.58	1.53	2.44	90.0	236	44.8	29.0	17.9
MAX	8.0	4.6	3.8	2.7	2.0	2.1	3.4	385	552	80	74	26
MIN	4.0	3.3	2.5	1.5	.95	1.1	2.0	3.6	70	21	18	14
AC-FT	381	236	199	132	91	94	145	5,540	14,040	2,760	1,790	1,060

CAL YR 1971 TOTAL 13,451.30 MEAN 36.9 MAX 614 MIN 1.2 AC-FT 26,680
WTR YR 1972 TOTAL 13,339.35 MEAN 36.4 MAX 552 MIN .95 AC-FT 26,460

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--No gage-height record June 10 to July 12.

DATE TIME G.H.T. DISCHARGE

6- 2 2230 5.86 766

YELLOWSTONE RIVER BASIN

06278500 SHELL CREEK NEAR SHELL, WYO.

LOCATION.--Lat 44°33'54", long 107°42'44", in SE¼SW¼ sec.17, T.53 N., R.90 W., Big Horn County, on right bank 0.9 mile upstream from White Creek and 5 miles northeast of Shell.

DRAINAGE AREA.--145 sq mi.

PERIOD OF RECORD.--October 1940 to current year (no winter records since 1971). Prior to December 1940 monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 4,370.05 ft above mean sea level.

AVERAGE DISCHARGE.--31 years (1940-71), 119 cfs (86,220 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,410 cfs June 3 (gage height, 5.10 ft); minimum daily during period of operation, 37 cfs Mar. 8, 27.
Period of record: Maximum discharge, 3,020 cfs June 24, 1945 (gage height, 7.49 ft), from rating curve extended above 1,600 cfs; minimum daily, 18 cfs Mar. 5, 7, 1950, Jan. 30, 31, 1951.

REMARKS.--Records good. Some regulation by two small reservoirs (capacity, 3,650 acre-ft). Diversions above station for irrigation of about 80 acres below station.

REVISIONS (WATER YEARS).--WSP 1239: 1941, 1945(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64					41	41	56	1,110	255	120	107
2	66					39	42	52	1,230	276	200	102
3	62					40	40	54	1,170	282	267	98
4	63					39	42	61	1,090	273	198	96
5	67					39	42	72	1,070	258	157	92
6	64					43	44	66	974	240	137	106
7	63					38	44	64	1,010	230	128	112
8	61					37	44	66	1,060	220	121	108
9	60					45	43	73	988	210	120	101
10	58					44	44	85	912	200	118	100
11	57					44	44	77	822	190	112	97
12	57					43	49	78	762	185	108	92
13	57					44	45	73	655	178	107	89
14	63					44	43	88	545	172	104	88
15	63					42	45	121	500	168	104	87
16	63					43	47	148	472	159	100	84
17	66					46	49	185	448	165	100	82
18	69					47	47	246	428	161	95	81
19	63					48	45	285	456	140	96	81
20	62					46	44	340	452	145	100	81
21	63					43	45	452	400	155	96	80
22	58					44	45	452	368	140	123	80
23	60					49	43	508	340	130	128	78
24	60					46	45	472	340	120	148	78
25	64					43	50	516	354	115	131	82
26	60					44	47	480	344	112	121	78
27	56					37	46	420	318	110	115	87
28	39					39	50	393	288	110	106	84
29	45					39	62	504	270	105	101	81
30	56				-----	43	71	670	261	100	98	81
31	64	-----			-----	43	-----	906	-----	105	104	-----
TOTAL	1,873					1,322	1,388	8,063	19,457	5,409	3,863	2,693
MEAN	60.4					42.6	46.3	260	649	174	125	89.8
MAX	69					49	71	906	1,230	282	267	112
MIN	39					37	40	52	261	100	95	78
AC-FT	3,720					2,620	2,750	15,990	38,590	10,730	7,660	5,340

PEAK DISCHARGE (BASE, 750 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 3	0145	5.10	1,410

YELLOWSTONE RIVER BASIN

55

06279500 BIGHORN RIVER AT KANE, WYO.

LOCATION.--Lat 44°45'31", long 108°10'51", in NW¼NE¼SW¼ sec.9, T.55 N., R.94 W., Big Horn County, on right bank 180 ft upstream from Bighorn Canyon National Recreation Area boundary, 0.5 mile upstream from normal high-water line of Bighorn Lake at elevation 3,660 ft, 1.3 miles upstream from Five Springs Creek, and 5.9 miles south of Kane.

DRAINAGE AREA.--15,765 sq mi. Area at sites used prior to May 17, 1956, 15,846 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,660 ft (from topographic map). Aug. 29, 1928, to Apr. 25, 1932, nonrecording gage, and Apr. 25, 1932, to May 16, 1956, water-stage recorder, at site 12.5 miles downstream at different datum.

AVERAGE DISCHARGE.--44 years, 2,278 cfs (1,650,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,400 cfs Oct. 19 (gage height, 6.57 ft); maximum gage height, 10.90 ft Feb. 22 (backwater from ice); minimum daily discharge, 1,600 cfs Dec. 28.

Period of record: Maximum discharge, 25,200 cfs June 16, 1935 (gage height, 11.10 ft, site and datum then in use); minimum daily, 179 cfs July 22, 1934.

Maximum stage known, 14.8 ft Sept. 30, 1923, site and datum in use April 1932 to May 1956.

REMARKS.--Records fair except those for winter period, which are poor. Some regulation by Boysen Reservoir since October 1951. (See page 98.) Diversions for irrigation of about 376,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1929(M). WSP 1509: 1929. WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,400	2,750	2,350	1,800	2,400	4,000	2,660	2,200	5,630	4,310	2,320	2,280
2	3,190	2,740	2,180	1,900	2,300	3,700	2,670	2,090	6,470	3,320	2,750	2,380
3	3,200	2,690	1,600	2,000	2,200	3,500	2,670	1,960	7,040	3,590	5,390	2,460
4	2,420	2,690	1,660	2,200	2,300	3,360	2,670	1,870	7,380	3,660	4,010	2,500
5	2,220	2,770	1,720	2,400	2,400	2,960	2,560	1,980	7,790	3,890	3,410	2,300
6	2,280	2,620	1,840	2,600	2,400	3,140	2,590	1,900	7,430	3,680	3,340	2,200
7	2,300	2,500	1,800	2,800	2,400	3,950	2,610	1,960	6,890	3,570	3,050	2,190
8	2,260	2,530	1,700	3,000	2,400	3,700	2,610	2,110	7,350	3,460	3,050	2,220
9	2,250	2,560	1,800	3,200	2,400	3,270	2,580	2,060	8,100	3,080	2,850	2,230
10	2,260	2,540	1,800	3,400	2,400	3,320	2,590	1,990	8,480	3,000	2,720	2,190
11	2,300	2,590	1,800	3,400	2,600	3,430	2,610	2,120	8,650	2,880	2,560	2,180
12	2,440	2,700	1,800	3,400	2,700	3,410	2,590	2,190	7,920	2,800	2,350	2,200
13	2,340	2,590	1,800	3,600	2,800	3,240	2,540	2,200	7,370	2,750	2,280	2,130
14	2,290	2,560	1,800	3,600	3,000	3,340	2,580	2,110	7,590	2,700	2,230	2,120
15	2,380	2,530	1,800	3,600	3,000	3,300	2,520	2,060	8,030	2,690	2,220	2,130
16	2,320	2,500	1,750	3,600	3,000	3,240	2,470	2,190	9,010	2,420	2,290	2,180
17	2,400	2,480	1,700	3,500	3,000	3,190	2,500	2,650	8,800	2,360	2,130	2,160
18	4,780	2,460	1,700	3,200	3,100	3,200	2,460	3,020	8,850	2,400	2,120	2,130
19	7,750	2,410	1,700	2,500	3,100	3,030	2,740	3,410	9,500	2,400	2,180	2,110
20	4,250	2,410	1,700	2,500	3,100	3,080	2,690	3,710	5,160	2,410	2,320	2,060
21	3,860	2,480	1,700	2,500	3,200	3,120	2,500	4,310	7,080	2,770	2,540	2,040
22	3,550	2,470	1,700	2,700	3,200	2,910	2,400	5,150	6,660	2,820	2,360	2,060
23	3,320	2,420	1,700	3,000	3,200	2,900	2,340	5,350	5,800	2,520	2,060	2,150
24	3,120	2,360	1,700	3,000	3,200	2,900	2,320	4,850	4,630	2,460	2,750	2,010
25	2,980	2,460	1,700	3,000	3,200	2,860	2,260	4,370	4,610	2,320	3,440	1,940
26	2,860	2,440	1,700	2,900	3,200	2,780	2,290	4,390	4,690	2,180	2,720	2,080
27	2,780	2,470	1,650	2,800	3,400	2,770	2,090	4,140	4,970	2,150	2,500	2,160
28	3,020	2,460	1,600	2,800	4,000	2,670	1,990	3,790	5,050	2,120	2,400	2,190
29	2,830	2,420	1,650	2,800	4,500	2,660	1,900	3,700	4,770	2,150	2,260	2,190
30	2,740	2,420	1,650	2,900	-----	2,670	1,850	4,100	4,670	2,190	2,250	2,190
31	2,780	-----	1,700	2,400	-----	2,690	-----	4,730	-----	2,160	2,350	-----
TOTAL	91,870	75,020	54,520	89,000	84,100	58,290	73,850	94,700	210,470	87,210	83,200	65,360
MEAN	2,964	2,534	1,759	2,871	2,500	3,171	2,462	3,055	7,016	2,813	2,684	2,179
MAX	7,750	2,770	2,350	3,600	4,500	4,000	2,740	5,350	9,500	4,310	5,390	2,500
MIN	2,220	2,360	1,600	1,800	2,200	2,660	1,850	1,870	4,610	2,120	2,060	1,940
AC-FT	182,200	150,800	109,100	176,500	166,800	155,000	146,500	187,800	417,500	173,000	165,000	129,600
CAL YR 1971	TOTAL 1,073,650		MEAN 2,942		MAX 10,700		MIN 1,030		AC-FT 2,130,000			
WTR YR 1972	TOTAL 1,108,590		MEAN 3,029		MAX 9,500		MIN 1,600		AC-FT 2,199,000			

YELLOWSTONE RIVER BASIN

06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WYO.

LOCATION.--Lat 44°12'30", long 109°33'15", in NE¼ sec.24, T.49 N., R.106 W., Park County, Shoshone National Forest, on left bank 75 ft downstream from U.S. Forest Service bridge, 0.4 mile downstream from Boulder Creek, 3.2 miles northeast of Valley, and 34 miles southwest of Cody.

DRAINAGE AREA.--297 sq mi.

PERIOD OF RECORD.--October 1956 to September 1958, October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (from topographic map). Prior to Nov. 22, 1961, at site 75 ft upstream at same datum.

AVERAGE DISCHARGE.--15 years, 432 cfs (313,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,780 cfs June 7 (gage height, 6.51 ft); minimum daily, 49 cfs Jan. 27.

Period of record: Maximum discharge, 6,610 cfs June 15, 1963 (gage height, 8.83 ft), from rating curve extended above 3,200 cfs on basis of slope-area measurement of peak flow; minimum daily, 41 cfs Feb. 27, 28, 1961.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions for irrigation of about 450 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	116	66	69	56	76	92	172	2,870	1,800	714	441
2	216	122	59	66	54	76	92	179	3,040	1,520	741	436
3	235	122	60	62	60	83	93	198	2,850	1,050	636	378
4	288	142	60	60	68	76	95	273	2,960	860	575	356
5	324	146	60	63	74	80	95	304	3,090	1,010	545	344
6	316	142	66	68	73	83	97	369	3,020	1,220	545	428
7	284	133	53	70	76	70	99	369	3,280	1,370	535	378
8	256	142	50	70	76	73	104	280	3,500	1,400	540	332
9	235	135	58	69	74	81	103	262	3,340	1,310	520	392
10	229	137	57	67	71	95	104	262	3,240	1,290	495	660
11	223	133	56	68	72	106	108	245	3,180	1,310	475	525
12	216	135	57	65	75	97	110	235	2,900	1,340	465	446
13	204	140	55	62	74	97	106	256	2,480	1,390	515	396
14	216	135	56	61	73	110	101	432	2,330	1,360	684	364
15	204	133	54	65	75	106	103	678	2,370	1,140	550	344
16	201	133	60	70	78	114	106	874	2,330	1,030	500	320
17	213	131	71	72	79	131	106	930	2,530	970	485	304
18	229	110	66	72	85	163	106	839	2,390	867	455	288
19	213	112	68	73	85	168	103	881	1,920	846	678	288
20	216	127	66	74	85	140	99	769	1,530	804	525	270
21	210	118	68	73	86	142	107	881	1,560	853	460	252
22	190	118	70	72	85	149	105	790	1,690	654	405	245
23	193	118	66	70	81	171	104	612	1,850	630	797	235
24	190	116	65	58	80	137	119	660	1,620	648	727	226
25	184	116	66	50	73	131	141	642	1,310	630	570	229
26	179	112	54	50	72	116	127	636	1,010	612	505	216
27	174	112	53	49	80	106	124	881	978	734	465	276
28	135	103	66	50	93	101	166	1,240	1,110	696	436	266
29	114	96	69	58	90	99	197	1,520	1,560	642	455	235
30	112	81	64	66	-----	101	191	1,870	1,810	624	441	235
31	110	-----	63	68	-----	95	-----	2,320	-----	636	436	-----
TOTAL	6,522	3,716	1,902	2,010	2,203	3,373	3,403	20,859	69,648	31,246	16,875	10,105
MEAN	210	124	61.4	64.8	76.0	109	113	673	2,322	1,008	544	337
MAX	324	146	71	74	93	171	197	2,320	3,500	1,800	797	660
MIN	110	81	50	49	54	70	92	172	978	612	405	216
AC-FT	12,940	7,370	3,770	3,990	4,370	6,690	6,750	41,370	138,100	61,980	33,470	20,040

CAL YR 1971 TOTAL 192,596 MEAN 528 MAX 3,920 MIN 50 AC-FT 382,000
WTR YR 1972 TOTAL 171,862 MEAN 470 MAX 3,500 MIN 49 AC-FT 340,900

PEAK DISCHARGE (BASE, 2,500 CFS)

NOTE.--No gage-height record Jan. 17 to Feb. 17.

DATE TIME G.H.T. DISCHARGE

6- 7 2230 6.51 3,780

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LOCATION.--Lat 44°31'00", long 109°05'50", in lot 71, NE¼ sec.3, T.52 N., R.102 W., Park County, on left bank 0.5 mile downstream from Trail Creek, 1 mile west of Cody city limits, and 5.5 miles downstream from Buffalo Bill Reservoir.

REMARKS.--Records good. Flow completely regulated by Buffalo Bill Reservoir. (See page 98.) Diversions above station for irrigation of about 56,100 acres, of which about 37,900 acres lies below station. Diversion, 2.1 miles upstream, to Heart Mountain Canal began in 1943. Water-quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	928	914	612	931	632	881	845	1,650	1,530	1,460	1,280	921
2	914	873	780	936	620	884	845	1,290	2,430	1,960	1,280	919
3	914	872	921	739	628	873	657	1,290	3,060	2,220	1,270	921
4	914	911	936	583	636	872	518	1,300	3,460	2,240	1,280	919
5	914	952	940	582	636	874	1,060	1,290	3,470	2,210	1,280	924
6	914	943	936	582	636	871	1,470	1,290	3,480	2,310	1,280	927
7	914	946	938	582	637	870	1,630	1,290	3,510	2,510	1,280	924
8	914	907	938	583	652	868	1,840	1,290	3,550	2,740	1,280	924
9	908	864	941	582	753	870	1,830	1,290	3,600	2,830	1,280	927
10	911	859	938	582	816	868	1,840	1,290	3,620	2,790	1,280	931
11	916	840	936	583	888	868	1,870	1,290	3,630	2,720	1,280	933
12	914	952	934	584	893	862	1,870	1,290	3,650	2,700	1,270	930
13	920	952	934	581	892	860	1,850	1,280	3,670	2,690	1,270	929
14	919	945	939	579	889	863	1,840	1,280	3,660	2,700	1,280	926
15	920	677	935	580	890	859	1,840	1,280	3,670	2,570	1,260	931
16	916	460	935	582	890	858	1,840	1,280	2,740	2,360	1,210	933
17	918	460	938	582	886	854	1,850	1,300	1,510	2,190	1,190	923
18	921	456	935	577	890	865	1,850	1,310	1,500	1,980	1,190	931
19	920	509	935	577	888	860	1,840	1,320	1,500	1,780	1,030	934
20	916	605	935	577	888	852	1,870	1,310	1,510	1,620	922	935
21	914	607	934	577	886	852	1,840	1,330	1,510	1,650	923	935
22	914	607	935	577	889	852	1,830	1,210	1,420	1,580	927	935
23	914	608	936	577	885	852	1,820	1,120	1,370	1,420	938	935
24	914	608	934	572	879	852	1,820	1,130	1,360	1,360	959	933
25	914	608	932	572	879	852	1,820	1,120	1,370	1,360	941	932
26	914	611	929	567	879	852	1,810	1,120	1,360	1,330	925	915
27	1,020	614	933	572	884	845	1,810	1,120	1,340	1,330	920	929
28	1,030	610	932	603	874	845	1,820	1,130	1,330	1,290	916	933
29	965	611	934	640	873	845	1,840	1,140	1,340	1,280	907	938
30	965	610	935	668	-----	845	1,830	1,140	1,340	1,280	912	938
31	963	-----	933	652	-----	845	-----	1,150	-----	1,280	920	-----
TOTAL	28,752	21,991	28,503	19,061	23,468	26,669	49,295	38,920	72,490	61,740	34,880	27,865
MEAN	927	733	919	615	809	860	1,643	1,255	2,416	1,992	1,125	929
MAX	1,030	952	941	936	893	884	1,870	1,650	3,670	2,830	1,280	938
MIN	908	456	612	567	620	845	518	1,120	1,330	1,280	907	915
AC-FT	57,030	43,620	56,540	37,810	46,550	52,900	97,780	77,200	143,800	122,500	69,180	55,270
WTR YR 1971	TOTAL	525,574	MEAN	1,440	MAX	6,380	MIN	456	AC-FT	1,042,000		
CAL YR 1972	TOTAL	433,634	MEAN	1,185	MAX	3,670	MIN	456	AC-FT	860,100		

LOCATION.--Lat 44°44'20", long 108°35'38", in SE¼SE¼ sec.13, T.55 N., R.98 W., Park County, on right bank 50 ft downstream from bridge on county road, 600 ft downstream from Penrose Dam, 1.3 miles upstream from Bitter Creek, 4.3 miles southeast of Garland, and 8 miles east of Powell.

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

GAGE.--Water-stage recorder. Datum of gage is 4,077.31 ft above mean sea level. Prior to Nov. 12, 1965, at site 50 ft upstream at same datum. Nov. 12, 1965, to June 13, 1968, at site 150 ft upstream at different datum.

AVERAGE DISCHARGE.--14 years, 655 cfs (474,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,520 cfs June 9 (gage height, 7.92 ft); minimum daily, 15 cfs May 17.

Period of record: Maximum discharge, 13,300 cfs July 1, 1967 (gage height, 8.76 ft, from floodmark, site and datum then in use); minimum daily, 5.0 cfs May 25, 26, 1959.

REMARKS.--Records fair except those for winter period, which are poor. Flow regulated by Buffalo Bill Reservoir. (See page 98.) Diversions above station for irrigation of about 143,000 acres, of which about 37,000 acres lies below station.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	960	652	1,080	640	1,020	894	735	137	74	241	206
2	1,000	880	713	1,030	660	998	894	294	1,070	500	224	216
3	960	902	982	990	660	988	862	162	1,680	894	328	227
4	795	998	982	920	660	958	624	129	2,320	1,030	342	257
5	780	1,130	998	660	680	942	644	114	2,250	1,040	385	249
6	735	1,060	1,010	680	700	974	1,520	129	2,130	1,090	380	245
7	692	1,050	966	657	720	998	1,540	174	2,140	1,310	314	234
8	678	1,060	998	618	750	966	1,790	187	2,210	1,460	227	227
9	680	982	1,120	598	758	966	1,730	129	2,610	1,640	177	216
10	660	1,010	1,040	598	825	966	1,670	117	2,650	1,560	145	230
11	660	1,070	1,030	624	934	974	1,590	107	2,640	1,500	154	272
12	620	1,060	1,050	611	934	966	1,610	105	2,570	1,450	196	260
13	620	1,120	1,060	598	942	966	1,430	84	2,600	1,420	249	241
14	620	1,100	1,010	585	950	918	1,410	61	2,580	1,380	332	245
15	660	1,070	1,010	611	974	878	1,400	46	2,570	1,340	498	249
16	660	735	1,010	624	1,010	902	1,360	16	2,350	1,160	445	241
17	660	549	1,040	678	998	910	1,240	15	492	966	494	234
18	900	455	982	657	982	910	1,160	20	410	780	350	220
19	900	514	982	637	1,010	942	1,140	98	514	543	430	193
20	671	678	982	567	1,030	934	1,130	314	520	470	268	129
21	664	699	990	543	1,060	918	1,090	410	585	465	315	102
22	664	699	982	561	1,030	902	934	380	579	508	375	107
23	678	692	982	567	1,020	902	818	272	476	405	420	160
24	678	678	974	549	990	910	750	284	543	314	481	190
25	650	699	966	573	966	910	742	210	561	174	455	227
26	1,110	699	894	555	958	902	758	148	537	117	445	264
27	1,160	706	974	620	950	894	720	224	415	105	440	319
28	1,180	706	1,050	600	950	902	692	314	302	82	410	361
29	1,020	699	1,130	640	950	894	657	342	187	74	257	445
30	1,010	699	1,130	620	-----	802	720	306	124	95	238	445
31	1,010	-----	1,090	660	-----	902	-----	200	-----	93	210	-----
TOTAL	24,575	25,359	30,819	20,511	25,691	28,908	33,519	6,126	40,752	24,039	10,305	7,211
MEAN	793	845	994	662	886	933	1,117	198	1,358	775	332	240
MAX	1,180	1,130	1,130	1,080	1,060	1,020	1,790	735	2,650	1,640	498	445
MIN	620	455	692	543	640	802	624	15	124	74	145	102
AC-FT	48,740	50,300	61,130	40,680	50,960	57,340	66,480	12,150	80,830	47,680	20,440	14,300
CAL YR 1971	TOTAL 363,109			MEAN 995	MAX 4,300			MIN 102			AC-FT 720,200	
WTR YR 1972	TOTAL 277,815			MEAN 759	MAX 2,650			MIN 15			AC-FT 551,000	

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LOCATION.--Lat 44°45'13", long 108°35'29", in SW¹/₄SW¹/₄SW¹/₄ sec.7, T.55 N., R.97 W., Big Horn County, on left bank 100 ft downstream from bridge on county road, 1 mile upstream from mouth, 4 miles southeast of Garland, and 5 miles southwest of Byron.

PERIOD OF RECORD.--March 1950 to December 1953, October 1957 to September 1960, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,080 ft (from topographic map).

AVERAGE DISCHARGE.--10 years (1950-53, 1957-60, 1968-72), 146 cfs (105,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 497 cfs Aug. 14 (gage height, 2.93 ft); maximum gage height, 3.44 ft Feb. 11 (backwater from ice); minimum daily discharge, 9.0 cfs Jan. 26.
Period of record: Maximum discharge, 1,510 cfs Jan 10, 1960 (gage height, 4.48 ft), from rating curve extended above 390 cfs; minimum daily, 0.50 cfs Jan. 30 to Feb. 3, 1969.

REMARKS.--Records fair except those for winter period, which are poor. Flow is mainly return flow from Garland Canal system of Shoshone irrigation project. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	49	31	15	10	22	19	280	211	223	339	270
2	319	47	30	13	9.6	20	19	282	224	229	320	295
3	298	46	29	11	10	19	18	269	253	261	306	326
4	289	48	29	11	11	19	19	267	253	280	294	338
5	286	44	28	12	13	20	19	267	250	292	290	339
6	282	42	27	15	12	23	19	254	219	275	290	311
7	276	43	20	17	14	22	18	271	219	286	290	313
8	270	42	16	17	15	21	18	267	217	280	290	313
9	270	41	18	18	14	23	18	265	240	292	292	296
10	267	40	19	16	15	25	47	258	252	295	325	305
11	265	40	18	18	15	25	106	264	276	261	366	311
12	253	39	17	16	16	25	200	267	294	229	394	302
13	250	38	18	13	17	25	300	264	297	198	437	290
14	256	37	16	10	16	24	300	272	300	178	425	289
15	259	38	17	11	14	22	300	275	296	172	414	299
16	260	37	17	12	18	22	310	271	303	178	418	305
17	258	36	18	13	16	23	330	277	301	211	429	309
18	265	35	18	15	17	23	330	299	303	235	414	300
19	258	35	17	15	18	24	330	359	325	247	390	281
20	255	34	18	14	19	22	330	381	325	261	404	287
21	252	34	19	16	18	24	310	413	311	271	404	291
22	252	34	20	16	19	25	300	358	299	273	397	309
23	242	33	21	14	18	21	300	288	291	283	408	324
24	238	33	21	12	17	21	300	293	251	301	425	339
25	235	33	20	10	17	21	290	298	241	286	400	357
26	132	33	17	9.0	17	20	290	288	246	268	400	357
27	63	33	16	10	19	20	290	280	231	264	408	343
28	53	33	16	11	21	20	280	294	231	281	383	335
29	52	32	17	13	23	20	280	278	217	311	328	293
30	51	32	18	12	-----	20	280	254	223	324	295	267
31	50	-----	17	11	-----	20	-----	232	-----	344	276	-----
TOTAL	7,105	1,141	623	416.0	458.6	681	5,970	8,885	7,899	8,089	11,251	9,297
MEAN	229	38.0	20.1	13.4	15.8	22.0	199	287	263	261	363	310
MAX	349	49	31	18	23	25	330	413	325	344	437	357
MIN	50	32	16	9.0	9.6	19	18	232	211	172	276	267
AC-FT	14,090	2,260	1,240	825	910	1,350	11,840	17,620	15,670	16,040	22,320	18,440
CAL YR 1971	TOTAL 58,250.0			MEAN 160	MAX 465	MIN 12	AC-FT 115,500					
WTR YR 1972	TOTAL 61,815.6			MEAN 169	MAX 437	MIN 9.0	AC-FT 122,600					

YELLOWSTONE RIVER BASIN

06284800 WHISTLE CREEK NEAR GARLAND, WYO.

LOCATION.--Lat 44°43'21", long 108°34'16", in NW¼NW¼NE¼ sec.30, T.55 N., R.97 W., Big Horn County, on right bank 300 ft upstream from Elk-Lovell Canal, 5.6 miles southeast of Garland, and 6.3 miles southwest of Byron.

DRAINAGE AREA.--101 sq mi.

PERIOD OF RECORD.--May 1958 to May 1960, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,150 ft (from topographic map). Prior to May 31, 1960, at different datum.

AVERAGE DISCHARGE.--5 years (1958-59, 1968-72), 29.5 cfs (21,370 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 950 cfs Aug.15 (gage height, 5.30 ft); minimum daily, 0.12 cfs Jan. 27.

Period of record: Maximum discharge, 1,260 cfs June 25, 1969 (gage height, 6.19 ft); minimum daily, 0.05 cfs Jan. 12, 1971.

Flood of Sept. 19, 1961, reached a discharge of 4,260 cfs, at site 6.5 miles upstream.

REMARKS.--Records poor. Part of flow is return flow from areas irrigated by diversions from the Shoshone River. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	3.8	3.1	.45	.20	6.0	3.2	48	61	34	200	61
2	173	3.3	2.5	.40	.16	5.0	3.5	48	135	44	103	61
3	88	3.8	2.3	.30	.16	6.0	3.4	32	62	64	90	54
4	53	12	2.3	.20	.20	5.0	3.3	42	62	65	84	56
5	42	14	2.0	.25	.25	4.4	3.5	57	64	54	73	53
6	37	7.0	2.0	.25	.27	5.0	3.8	56	67	48	64	48
7	31	5.0	1.5	.30	.30	5.4	3.7	59	65	61	56	51
8	29	4.6	.90	.35	.33	4.4	3.5	54	71	65	43	46
9	27	6.2	.90	.35	.35	5.0	3.4	54	71	53	46	46
10	27	6.0	1.0	.35	.33	5.6	3.3	56	75	56	53	46
11	27	7.0	1.0	.35	.31	5.0	3.3	51	75	54	53	46
12	26	7.6	.80	.35	.31	4.0	3.5	48	71	50	56	41
13	26	8.4	.80	.30	.35	3.6	3.5	56	62	50	54	42
14	28	5.5	.90	.20	.33	3.0	3.4	57	61	42	69	47
15	26	3.8	.90	.20	.35	2.6	5.0	59	71	41	227	48
16	27	2.8	.90	.25	.40	2.2	16	43	65	44	59	47
17	28	2.8	.90	.30	.50	2.3	7.7	69	59	41	109	43
18	100	2.7	1.0	.30	.45	2.4	13	65	69	50	84	46
19	50	2.4	1.0	.30	.55	3.0	27	107	84	51	78	43
20	35	2.5	1.0	.30	.80	3.0	29	109	75	51	92	43
21	35	3.3	1.0	.30	1.0	2.8	25	101	73	53	92	43
22	33	3.1	1.1	.30	1.4	2.9	21	75	67	56	140	44
23	34	2.5	1.2	.25	1.5	3.4	30	56	62	56	73	51
24	33	3.1	1.2	.25	1.2	3.3	32	57	51	59	80	46
25	31	2.2	1.1	.20	1.2	3.0	26	69	47	42	76	47
26	47	2.5	1.0	.16	1.4	3.1	28	75	59	51	80	46
27	50	2.5	.70	.12	1.6	2.9	28	53	61	56	75	43
28	26	2.6	.40	.13	3.0	2.8	27	48	50	56	61	46
29	12	3.4	.40	.17	8.0	2.7	24	48	53	54	65	54
30	5.5	3.3	.45	.25	-----	2.7	39	47	35	67	100	59
31	3.8	-----	.50	.25	-----	2.8	-----	56	-----	75	151	-----
TOTAL	1,278.3	139.7	36.75	8.43	27.20	115.3	431.0	1,855	1,983	1,643	2,726	1,447
MEAN	41.2	4.66	1.19	.27	.94	3.72	14.4	59.8	66.1	53.0	87.9	48.2
MAX	173	14	3.1	.45	8.0	6.0	39	109	135	75	227	61
MIN	3.8	2.2	.40	.12	.16	2.2	3.2	32	35	34	43	41
AC-FT	2,540	277	73	17	54	229	855	3,680	3,930	3,260	5,410	2,870
CAL YR 1971	TOTAL	11,518.63	MEAN	31.6	MAX	206	MIN	.05	AC-FT	22,850		
WTR YR 1972	TOTAL	11,690.68	MEAN	31.9	MAX	227	MIN	.12	AC-FT	23,190		

NOTE.--No gage-height record Dec. 2 to Mar. 15.

YELLOWSTONE RIVER BASIN

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06285100 SHOSHONE RIVER NEAR LOVELL, WYO.

LOCATION.--Lat 44°50'20", long 108°26'00", in NW¼NW¼ sec.16, T.56 N., R.96 W., Big Horn County, on right bank 30 ft upstream from bridge on U.S. Highway 310 and 1.5 miles west of Lovell.

DRAINAGE AREA.--2,350 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 1,080 cfs (782,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,750 cfs June 9 (gage height, 4.42 ft); maximum gage height, 8.09 ft Feb. 3 (backwater from ice); minimum daily discharge, 438 cfs May 17, 18.
Period of record: Maximum discharge, 13,400 cfs July 1, 1967 (gage height, 6.49 ft); maximum gage height, 8.09 ft Feb. 3, 1972 (backwater from ice); minimum daily discharge, 199 cfs July 25, 1968.

REMARKS.--Records fair. Flow regulated by Buffalo Bill Reservoir. (See page 98.) Natural flow of stream affected by storage reservoirs, power development, diversions above station for irrigation of about 143,000 acres, of which about 8,000 acres lies below station, and 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	1,150	752	1,100	780	1,190	908	1,380	541	541	899	839
2	1,900	1,000	752	1,100	760	1,120	926	882	1,220	768	944	814
3	1,810	1,020	1,150	1,050	760	1,090	917	667	2,020	1,340	1,250	830
4	1,370	1,100	1,100	1,000	780	1,060	667	625	2,840	1,630	1,160	873
5	1,270	1,240	1,190	740	800	1,030	646	618	2,970	1,640	1,140	856
6	1,210	1,090	1,250	745	800	1,060	1,840	653	2,820	1,680	1,110	822
7	1,180	1,070	1,110	760	800	1,100	1,910	716	2,840	1,900	1,090	782
8	1,190	1,080	1,020	760	760	1,060	2,410	752	2,950	1,980	864	775
9	1,160	944	1,170	790	820	1,060	2,350	653	3,420	2,230	814	745
10	1,150	980	1,110	738	900	1,060	2,400	604	3,430	2,170	775	745
11	1,130	1,080	1,080	768	960	1,060	2,380	583	3,390	2,060	750	805
12	1,050	1,090	1,060	723	980	1,060	2,430	590	3,280	1,940	856	790
13	1,050	1,190	1,140	720	1,000	1,050	2,100	583	3,370	1,870	1,000	738
14	1,050	1,170	1,070	720	1,050	1,010	2,010	541	3,310	1,830	1,140	752
15	1,100	1,150	1,050	720	1,100	926	2,010	555	3,330	1,800	1,380	768
16	1,090	848	1,150	740	1,050	953	2,050	485	3,220	1,650	1,190	768
17	1,080	632	1,100	800	1,050	962	1,900	438	1,150	1,470	1,290	775
18	1,530	555	1,100	775	1,080	962	1,880	438	1,010	1,300	1,160	760
19	1,530	583	1,150	822	1,360	1,010	1,940	555	1,130	1,090	1,120	716
20	1,090	738	1,050	716	1,730	1,000	1,830	873	1,170	1,060	971	702
21	1,080	760	1,070	646	1,920	971	1,600	962	1,160	1,040	953	667
22	1,040	752	1,040	674	1,370	962	1,460	935	1,160	1,130	1,250	702
23	1,050	745	1,050	667	1,280	971	1,370	768	980	1,100	1,110	768
24	1,060	752	1,090	646	1,120	971	1,260	760	1,060	1,020	1,250	830
25	1,040	775	1,070	646	1,070	962	1,250	738	1,030	782	1,160	882
26	1,560	752	953	660	1,030	953	1,280	639	1,040	752	1,160	980
27	1,480	782	980	680	1,050	953	1,240	681	908	674	1,130	980
28	1,560	760	1,100	660	1,290	935	1,200	782	768	702	1,050	962
29	1,220	760	1,150	700	1,400	917	1,150	798	674	625	935	1,030
30	1,200	752	1,150	780	-----	935	1,310	745	590	709	873	1,000
31	1,190	-----	1,100	780	-----	848	-----	660	-----	745	1,030	-----
TOTAL	38,790	27,300	33,307	23,826	30,850	31,201	48,624	21,659	58,781	41,228	32,844	24,456
MEAN	1,251	910	1,074	769	1,064	1,006	1,621	699	1,959	1,330	1,059	815
MAX	1,900	1,240	1,250	1,100	1,920	1,190	2,430	1,380	3,430	2,230	1,380	1,030
MIN	1,040	555	752	646	760	848	646	438	541	541	775	667
AC-FT	76,940	54,150	66,060	47,260	61,190	61,890	96,450	42,960	16,600	81,780	65,150	48,510

CAL YR 1971 TOTAL 476,069 MEAN 1,304 MAX 5,780 MIN 315 AC-FT 944,300
WTR YR 1972 TOTAL 412,866 MEAN 1,128 MAX 3,430 MIN 438 AC-FT 818,900

YELLOWSTONE RIVER BASIN

06285400 SAGE CREEK AT SIDON CANAL, NEAR DEEVER, WYO.

LOCATION.--Lat 44°53'08", long 108°33'01", in NE¼NE¼NW¼ sec.34, T.57 N., R.97 W., Big Horn County, on left bank 300 ft downstream from Polecat Creek, 800 ft upstream from Sidon Canal crossing, and 2.4 miles east of Deaver.

DRAINAGE AREA.--341 sq mi.

PERIOD OF RECORD.--June 1958 to May 1960, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,020 ft (from topographic map).

AVERAGE DISCHARGE.--5 years (1958-59, 1968-72), 68.1 cfs (49,340 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 244 cfs Oct. 18 (gage height, 3.84 ft, from floodmark); maximum gage height, 3.96 ft Feb. 21 (backwater from ice); minimum daily discharge, 7.5 cfs Jan. 27.

Period of record: Maximum discharge, 2,250 cfs June 8, 1958 (gage height, 9.22 ft. from floodmark), on basis of slope-area measurement of peak flow; minimum daily, 0.5 cfs Feb. 2-6, Feb. 21 to Mar. 5, 1960.

REMARKS.--Records fair except those for December to April, which are poor. Flow is mostly return flow from land irrigated by canals diverting water from Shoshone River. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	35	23	16	9.5	70	14	85	78	64	55	126
2	167	33	25	15	9.0	59	14	77	75	76	59	130
3	163	33	24	14	9.0	43	14	69	92	80	101	140
4	142	34	22	13	9.5	36	13	62	96	80	91	135
5	132	31	22	13	10	32	14	73	86	86	85	130
6	128	31	21	14	11	35	13	91	77	84	77	135
7	132	31	20	15	12	33	14	97	63	79	77	128
8	123	29	15	16	13	32	14	98	55	69	69	126
9	128	29	16	16	14	35	15	89	53	62	77	128
10	131	27	19	17	13	33	15	78	56	64	75	127
11	135	28	18	16	13	41	14	64	59	60	76	131
12	127	29	17	17	13	44	14	69	58	60	73	124
13	133	29	18	14	14	37	13		56	61	78	121
14	119	29	15	11	14	34	55		55	58	99	121
15	124	30	16	12	13	33	105	64	58		112	126
16	126	32	15	13	14	22		58	67	62	127	128
17	153	29	14	14	15	21		57		59	124	121
18	184	25	15	14	14	21	130	57		53	124	112
19	170	26	16	13	15	21	126		78	56	122	87
20	167	25	16	13	20	22	116	11	86	68	132	73
21	173	25	17	14	40	29		153	103	71	127	81
22	170	27	18	14	35	27		167	707	63	128	87
23	173	25	19	12	30	29	101	137	109	64	150	86
24	184	24	19	10	28	28	94	122	106	64	194	98
25	195	25	18	9.0	27	20	80	122	104	63	176	110
26	178	25	15	8.0	29	21	79	119	103	62	167	127
27	87	27	14	7.5	31	17	77	109	107	62	166	130
28	44	24	14	8.0	35	17	74	99	97	59	160	133
29	38	23	15	8.6	80	17	75	92	81	52	157	139
30	37	24	16	10	-----	15	79	78	74	49	144	131
31	33	-----	16	10	-----	14	-----	7	-----	53	136	-----
TOTAL	4,146	844	548	397.1	590.0	938	1,804	2,777	1,367	2,004	1,538	3,571
MEAN	134	28.1	17.7	12.8	20.3	30.3	60.1	89.9	79.9	64.6	114	119
MAX	185	35	25	17	80	70	130	109	109	86	194	140
MIN	33	23	14	7.5	9.0	14	12	57	53	49	55	73
AC-FT	8,220	1,670	1,090	788	1,170	1,860	3,580	5,530	2,777	3,970	2,020	7,080
CAL YR 1971	TOTAL 22,977.1			MEAN 63.0	MAX 218	MIN 5.8	AC-FT 5,580					
WTR YR 1972	TOTAL 23,534.1			MEAN 64.3	MAX 194	MIN 7.5	AC-FT 46,680					

YELLOWSTONE RIVER BASIN

63

06286258 BIG COULEE NEAR LOVELL, WYO.

LOCATION.--Lat 44°58'31", long 108°17'50", in SE¼NW¼SE¼ sec.27, T.58 N., R.95 W., Big Horn County, on right bank 0.6 mile upstream from county road, 1.3 miles upstream from mouth, and 11 miles northeast of Lovell. Prior to Aug. 31, 1972, at site 0.7 mile downstream.

DRAINAGE AREA.--28.8 sq mi. Area at site used April 1970 to Aug. 30, 1972, 30.1 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,800 ft (from topographic map). Prior to Aug. 31, 1972, water-stage recorder at site 0.7 mile downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 70 cfs Aug. 23 (gage height, 2.74 ft, from floodmark, site and datum then in use) by slope-area measurement of peak flow; no flow most of year.
Period of record: Maximum discharge, 70 cfs Aug. 23, 1972 (gage height, 2.74 ft, from floodmark, site and datum then in use) by slope-area measurement of peak flow; no flow most of each year.

REMARKS.--Records poor. Low flow affected by storage in gravel pit 0.3 mile upstream April 1971 to August 1972. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0				0					0	0	
2	0				0					0	0	
3	0				0					0	0	
4	0				0					0	0	
5	0				0					0	0	
6	0				0					0	0	
7	0				0					0	0	
8	0				0					0	0	
9	0				1.0					0	0	
10	0				.40					0	0	
11	0				.20					0	0	
12	0				.20					0	0	
13	0				.30					0	0	
14	0				.80					0	0	
15	0				.50					0	0	
16	0				.60					0	0	
17	0				.80					0	0	
18	.21				.50					0	0	
19	0				.50					0	0	
20	0				.20					0	0	
21	0				.15					0	0	
22	0				.05					0	0	
23	0				0					0	5.3	
24	0				0					0	0	
25	0				0					0	0	
26	0				0					0	0	
27	0				0					.51	0	
28	0				0					.08	0	
29	0				0					0	0	
30	0				-----					0	0	
31	0	-----			-----		-----		-----	0	0	-----
TOTAL	.21	0	0	0	6.20	0	0	0	0	.59	5.3	0
MEAN	.007	0	0	0	.21	0	0	0	0	.019	.17	0
MAX	.21	0	0	0	1.0	0	0	0	0	.51	5.3	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.4	0	0	0	12	0	0	0	0	1.2	11	0
CAL YR 1971	TOTAL 6.63	MEAN .018	MAX 1.7	MIN 0	AC-FT 13							
WTR YR 1972	TOTAL 12.30	MEAN .034	MAX 5.3	MIN 0	AC-FT 24							

YELLOWSTONE RIVER BASIN

06286400 BIGHORN LAKE NEAR ST. XAVIER, MONT.

LOCATION.--Lat 45°18'27", long 107°57'26", in SW¼SE¼ sec.18, T.6 S., R.31 E., Big Horn County, in block 13 of Yellowtail Dam, 1.3 miles upstream from Grapevine Creek, 15.5 miles southeast of St. Xavier, and at mile 81.0.

DRAINAGE AREA.--19,626 sq mi.

PERIOD OF RECORD.--November 1965 to current year (monthend contents only). Prior to October 1969, published as "Yellowtail Reservoir."

GAGE.--Water-stage recorder in powerhouse control room. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum daily contents, 1,090,000 acre-ft Oct. 20 (elevation, 3,639.42 ft); minimum, 705,500 acre-ft May 18 (elevation, 3,592.38 ft).

Period of record: Maximum contents, 1,346,000 acre-ft July 6, 1967 (elevation, 3,656.43 ft); minimum since first filling, 660,700 acre-ft Mar. 11, 1970 (elevation, 3,584.45 ft).

REMARKS.--Reservoir is formed by thin concrete-arch dam; construction began in 1961; completed in 1967. Storage began Nov. 3, 1965. Usable capacity, 1,356,000 acre-ft between elevation 3,296.5 ft (river outlet invert) and 3,657.0 ft (top of flood control). Elevation of spillway crest, 3,593 ft. Normal maximum operating level, 1,097,000 acre-ft (elevation, 3,640 ft). Minimum operating level, 483,400 acre-ft (elevation, 3,547 ft). Dead storage, 18,970 acre-ft below elevation 3,296.5 ft. Figures given herein represent usable contents. Water is used for power production, flood control, irrigation and recreation.

COOPERATION.--Elevations and capacity table furnished by Bureau of Reclamation.

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

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,638.09	1,073,000	-
Oct. 31	3,635.95	1,048,000	-25,000
Nov. 30	3,630.27	987,400	-60,600
Dec. 31	3,621.90	911,500	-75,900
CAL YR 1971	-	-	-61,800
Jan. 31	3,617.03	873,900	-37,600
Feb. 29	3,623.08	921,500	+47,600
Mar. 31	3,623.61	926,000	+4,500
Apr. 30	3,605.90	791,800	-134,200
May 31	3,602.26	767,300	-24,500
June 30	3,628.44	969,700	+202,400
July 31	3,631.47	999,600	+29,900
Aug. 31	3,636.02	1,049,000	+49,400
Sept. 30	3,637.76	1,069,000	+20,000
WTR YR 1972	-	-	-4,000

† Readings made at 2400 hours.

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LOCATION.--Lat 45°19'00", long 107°55'05", in NW¼NE¼ sec.16, T.6 S., R.31 E., Big Horn County, on right bank 800 ft downstream from Yellowtail afterbay dam, 1,500 ft downstream from Lime Kiln Creek, and 14 miles southwest of St. Xavier.

PERIOD OF RECORD.--October 1934 to current year.

AVERAGE DISCHARGE.--38 years, 3,550 cfs (2,572,000 acre-ft per year), unadjusted.

REMARKS.--Records good. Figures of discharge given herein are sum of river flow and flow of Bighorn Canal. Some regulation by 14 reservoirs in Wyoming with combined capacity of 1,400,000 acre-ft and complete regulation by Bighorn Lake (see page 64) since Nov. 3, 1965. Diversions for irrigation of about 375,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,520	5,990	5,460	4,000	4,000	4,100	7,610	6,480	5,480	5,460	3,270	3,170
2	3,680	5,440	4,460	4,000	4,000	4,460	7,630	6,270	6,150	2,850	3,320	3,190
3	3,680	4,880	4,460	4,000	4,000	4,810	7,610	6,370	6,150	4,120	3,260	2,850
4	4,190	4,860	4,000	4,000	4,000	4,880	7,590	6,530	6,140	2,930	3,160	3,070
5	5,160	4,790	3,130	4,000	4,000	4,880	7,170	6,510	5,950	4,010	3,170	3,130
6	4,960	4,840	4,340	4,000	4,000	4,860	5,640	6,530	5,880	4,730	3,200	3,170
7	5,060	4,840	4,370	4,000	4,000	4,860	7,680	6,530	4,710	4,810	3,220	3,170
8	4,510	4,820	4,370	4,000	4,000	4,860	6,570	6,550	6,020	4,230	3,220	3,170
9	2,650	4,900	4,370	4,000	4,000	4,860	6,590	6,470	5,680	3,750	3,210	3,030
10	2,860	4,690	4,170	4,000	4,000	4,860	6,550	6,360	5,880	4,290	3,230	3,180
11	4,930	4,900	4,180	4,000	4,000	4,170	6,550	6,260	5,750	4,210	3,230	3,160
12	5,060	4,860	4,230	4,000	4,000	2,600	6,550	5,580	6,030	4,360	3,240	2,930
13	5,080	4,840	4,460	4,000	4,000	2,590	6,550	5,080	6,680	4,380	3,240	2,890
14	5,080	4,840	4,530	4,000	4,000	2,590	6,550	5,080	6,640	4,500	3,240	3,170
15	5,060	4,860	4,390	4,000	4,000	2,590	6,550	5,060	6,630	4,230	3,170	3,200
16	4,960	4,690	4,730	4,000	4,000	2,590	6,550	5,160	6,590	4,180	3,200	3,200
17	2,700	4,620	4,620	4,000	4,000	3,580	6,660	5,130	6,570	3,980	3,210	3,180
18	4,750	4,680	4,410	4,000	4,000	4,980	6,550	5,130	6,530	4,010	3,210	3,340
19	4,880	4,900	4,410	4,000	4,000	5,000	6,550	5,110	6,490	4,030	3,200	3,260
20	5,780	5,280	4,220	4,000	4,000	5,000	6,060	4,900	6,490	4,030	3,210	3,190
21	6,550	4,810	4,000	4,000	4,000	5,000	6,120	4,810	6,470	4,080	3,210	3,190
22	6,660	5,050	4,000	4,000	4,000	5,360	6,530	5,150	6,430	4,100	3,410	3,190
23	7,040	5,260	4,000	4,000	4,000	5,500	6,530	5,090	6,390	4,130	3,210	3,190
24	7,040	5,340	4,000	4,000	4,000	5,500	6,530	4,650	6,360	4,150	3,210	3,200
25	7,040	5,320	4,000	4,000	4,000	5,500	6,530	5,050	6,340	3,770	3,160	3,180
26	6,700	5,600	4,000	3,980	4,000	5,480	6,530	4,530	6,300	2,910	3,210	3,140
27	5,850	5,640	4,000	3,980	4,000	5,480	6,530	1,780	6,220	3,970	3,070	3,140
28	5,850	5,640	4,000	4,000	4,000	5,480	6,530	1,770	5,910	3,120	2,990	3,150
29	6,080	5,480	4,000	4,000	4,000	5,460	6,330	1,750	5,580	2,970	3,380	3,150
30	5,990	5,540	4,000	4,000	-----	5,460	6,370	2,080	5,580	3,230	3,350	3,150
31	6,060	-----	4,000	4,000	-----	5,740	-----	2,970	-----	3,170		

YELLOWSTONE RIVER BASIN

06288960 LITTLE BIGHORN RIVER NEAR PARKMAN, WYO.

LOCATION.--Lat 44°58'55", long 107°38'42", in SE¼SE¼ sec.19, T.58 N., R.89 W., Sheridan County, on left bank at pack bridge on Dry Fork Trail, 1.7 miles upstream from Wyoming-Montana State line, and 15.5 miles west of Parkman.

DRAINAGE AREA.--137 sq mi.

PERIOD OF RECORD.--October 1969 to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,010 cfs June 3 (gage height, 5.00 ft); minimum daily, 20 cfs Jan. 25.

Period of record: Maximum discharge, 1,230 cfs June 9, 1970 (gage height, 5.30 ft); minimum daily, 20 cfs Jan. 25, 1972.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	70	50	62	55	49	52	71	663	208	122	87
2	64	70	48	60	48	48	52	69	799	216	134	85
3	71	70	50	45	55	48	49	70	837	208	148	85
4	76	76	65	40	58	46	51	78	832	202	124	85
5	78	70	63	55	60	47	52	91	766	188	119	83
6	77	60	65	60	57	49	53	81	753	184	116	88
7	76	65	50	60	57	48	53	83	773	179	114	87
8	71	70	40	57	53	49	53	81	782	171	112	81
9	70	70	60	55	52	50	53	90	721	168	111	78
10	71	70	63	55	50	51	54	100	653	162	109	80
11	71	69	58	55	51	52	55	91	646	162	106	78
12	70	69	55	54	51	51	57	92	593	157	103	77
13	68	69	58	35	51	52	57	91	535	155	101	77
14	70	68	60	35	51	54	56	114	478	152	104	74
15	70	68	60	50	51	53	56	150	442	150	108	73
16	71	66	55	63	51	55	57	186	413	144	100	73
17	74	65	58	58	50	58	59	237	390	148	100	71
18	71	63	55	55	50	58	58	298	362	144	98	70
19	68	64	55	55	50	62	56	330	385	143	97	71
20	76	66	55	53	50	59	55	332	345	143	95	70
21	76	65	55	55	50	57	56	475	320	164	94	70
22	70	65	55	55	49	58	59	469	292	139	92	70
23	71	62	55	53	49	63	56	382	288	134	98	70
24	74	64	55	35	49	59	58	368	279	128	106	70
25	73	65	52	20	48	57	65	355	268	127	92	70
26	73	63	35	22	48	56	62	318	257	127	91	69
27	65	65	42	25	48	52	58	302	239	127	88	74
28	56	63	45	40	50	51	62	290	224	128	87	70
29	62	64	50	50	50	49	73	345	216	120	87	69
30	69	62	50	55	-----	54	84	435	214	120	85	69
31	74	-----	55	58	-----	54	-----	550	-----	122	90	-----
TOTAL	2,199	1,996	1,672	1,530	1,492	1,649	1,721	7,024	14,765	4,820	3,231	2,274
MEAN	70.9	66.5	53.9	49.4	51.4	53.2	57.4	227	492	155	104	75.8
MAX	78	76	65	63	60	63	84	550	837	216	148	88
MIN	56	60	35	20	48	46	49	69	214	120	85	69
AC-FT	4,360	3,960	3,320	3,030	2,960	3,270	3,410	13,930	29,290	9,560	6,410	4,510

CAL YR 1971 TOTAL 48,505 MEAN 133 MAX 893 MIN 30 AC-FT 96,210
WTR YR 1972 TOTAL 44,373 MEAN 121 MAX 837 MIN 20 AC-FT 88,010

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-21	2100	3.95	607
6- 3	2200	5.00	1,010

NOTE.--No gage-height record Dec. 2 to Jan. 10,
Jan 13 to Feb. 15.

YELLOWSTONE RIVER BASIN

67

06288990 WEST FORK LITTLE BIGHORN RIVER NEAR PARKMAN, WYO.

LOCATION.--Lat 44°59'55", long 107°37'45", in SE¼ sec.17, T.58 N., R.89 W., Sheridan County, on right bank 0.1 mile upstream from Wyoming-Montana State line, 0.15 mile upstream from mouth, and 15 miles west of Parkman.

DRAINAGE AREA.--38.6 sq mi.

PERIOD OF RECORD.--October 1969 to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,400 ft (from topographic map). Prior to May 11, 1971, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 221 cfs June 3 (gage height, 2.16 ft); maximum gage height recorded, 3.09 ft (backwater from ice), from recorded range in stage, but may have been higher during periods of no gage-height record; minimum daily discharge, 10 cfs Jan. 26.

Period of record: Maximum discharge observed, 395 cfs June 10, 1970 (gage height, 2.65 ft); maximum gage height recorded, 3.09 ft (backwater from ice), from recorded range in stage, but may have been higher during periods of no gage-height record; minimum daily discharge, 6.0 cfs Jan. 5, 1970, Feb. 8, 1971.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	16	15	14	14	18	22	148	36	25	21
2	19	19	15	14	12	14	18	22	172	39	26	21
3	19	19	16	13	13	14	17	22	214	36	30	21
4	19	19	18	12	14	14	18	22	200	33	26	20
5	19	18	17	14	15	14	17	24	182	32	25	20
6	19	18	18	15	14	14	18	24	154	31	24	22
7	19	16	14	15	14	14	18	24	145	31	24	22
8	19	18	12	15	13	14	18	24	160	31	24	21
9	19	18	16	14	12	14	18	24	157	31	24	20
10	19	18	17	14	12	15	18	25	132	30	24	22
11	19	18	14	14	12	16	18	25	122	29	23	21
12	19	18	13	14	12	16	19	26	115	28	22	21
13	19	18	14	12	12	16	20	25	106	27	22	21
14	20	18	15	12	12	17	19	26	89	27	26	20
15	20	18	15	14	12	17	19	34	78	26	35	19
16	20	18	15	15	13	18	19	49	73	26	25	19
17	20	17	15	14	13	19	20	68	68	26	24	19
18	21	17	14	14	12	19	21	91	65	26	24	19
19	20	17	14	14	13	20	20	104	67	27	24	19
20	20	18	15	14	13	20	19	91	57	29	24	19
21	20	18	15	14	13	20	19	119	53	32	23	19
22	19	17	14	14	13	20	19	154	49	27	22	19
23	19	17	14	14	13	22	19	122	49	26	22	19
24	19	18	14	14	12	21	19	99	46	25	22	19
25	20	18	13	14	13	20	19	95	45	25	22	20
26	20	17	12	10	12	20	19	80	44	24	21	20
27	19	18	13	11	13	19	19	75	42	25	21	20
28	18	17	14	12	14	19	19	68	40	24	21	19
29	15	17	14	13	14	19	20	72	38	24	20	18
30	17	17	14	14	-----	19	22	89	37	24	21	18
31	18	-----	15	15	-----	19	-----	115	-----	24	22	-----
TOTAL	592	532	455	423	374	537	566	1,860	2,947	881	738	598
MEAN	19.1	17.7	14.7	13.6	12.9	17.3	18.9	60.0	98.2	28.4	23.8	19.9
MAX	21	19	18	15	15	22	22	154	214	39	35	22
MIN	15	16	12	10	12	14	17	22	37	24	20	18
AC-FT	1,170	1,060	902	839	742	1,070	1,120	3,690	5,850	1,750	1,460	1,190
CAL YR 1971	TOTAL	10,757.0	MEAN	29.5	MAX	182	MIN	6.0	AC-FT	21,340		
WTR YR 1972	TOTAL	10,503.0	MEAN	28.7	MAX	214	MIN	10	AC-FT	20,830		

PEAK DISCHARGE (BASE, 210 CFS)

NOTE.--No gage-height record Dec. 10 to Jan. 10.

DATE	TIME	G.HT.	DISCHARGE
6- 3	2230	2.16	221

YELLOWSTONE RIVER BASIN

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MONT.

LOCATION.--Lat 45°00'25", long 107°37'05", in SW¼NW¼ sec.36, T.9 S., R.33 E., Bighorn County, on right bank 20 ft downstream from county bridge, 0.5 mile north of Wyoming-Montana State line, 1 mile downstream from West Fork, and 13 miles southwest of Wyola.

DRAINAGE AREA.--193 sq mi.

PERIOD OF RECORD.--March 1939 to current year. Prior to October 1940, published as Little Horn River at State line, near Wyola.

GAGE.--Water-stage recorder. Altitude of gage is 4,450 ft (from topographic map).

AVERAGE DISCHARGE.--33 years, 150 cfs (108,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,290 cfs June 3 (gage height, 4.05 ft); minimum, 37 cfs Jan. 25, 26, result of freezeup.

Period of record: Maximum discharge, 2,730 cfs June 3, 1944 (gage height, 4.87 ft), from rating curve extended above 1,400 cfs; maximum gage height recorded, 5.93 ft June 9, 1944 (log jam); minimum discharge, 21 cfs Dec. 27, 1954, result of freezeup.

REMARKS.--Records good. Diversions for irrigation of 163 acres above station.

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	92	67	81	74	70	79	111	725	262	152	113
2	95	90	64	77	64	70	79	105	917	280	163	111
3	97	90	67	63	74	72	76	105	1,030	262	185	111
4	99	95	84	56	77	69	77	111	973	254	155	111
5	103	88	82	74	79	70	77	124	885	243	146	107
6	103	70	84	77	76	74	79	116	845	240	141	113
7	103	88	67	79	76	70	79	118	869	233	139	111
8	101	88	52	76	72	70	81	114	893	229	139	105
9	99	88	75	74	70	74	81	122	885	222	136	103
10	99	86	82	74	67	77	82	134	808	215	134	107
11	99	86	77	74	69	81	84	124	755	212	132	103
12	99	86	72	72	69	77	88	124	674	208	129	101
13	95	86	77	51	69	79	90	122	590	205	129	101
14	97	86	77	50	69	82	88	141	543	201	134	99
15	99	86	79	69	67	81	90	182	519	195	144	99
16	97	84	74	82	70	82	92	233	489	188	129	97
17	99	82	77	77	70	88	94	307	447	195	129	97
18	101	79	74	74	70	90	94	397	413	185	127	97
19	94	81	74	72	70	92	90	441	441	185	124	99
20	99	84	74	70	70	90	90	430	380	182	122	99
21	97	82	74	72	70	86	92	562	369	215	122	99
22	94	82	74	72	70	88	94	562	358	178	120	99
23	95	79	74	70	69	95	90	441	353	169	127	99
24	95	81	72	51	69	92	92	419	336	163	132	99
25	94	82	69	38	69	88	97	413	331	161	118	101
26	94	79	52	38	69	88	94	375	312	161	116	99
27	88	82	59	42	70	82	92	347	289	161	114	105
28	74	81	63	56	74	79	95	331	280	163	113	101
29	67	81	69	67	74	79	107	380	273	152	113	97
30	79	81	69	72	-----	82	122	459	273	149	111	97
31	94	-----	74	77	-----	82	-----	576	-----	155	114	-----
TOTAL	2,948	2,525	2,228	2,077	2,056	2,499	2,665	8,526	17,255	6,223	4,089	3,080
MEAN	95.1	84.2	71.9	67.0	70.9	80.6	88.8	275	575	201	132	103
MAX	103	95	84	82	79	95	122	576	1,030	280	185	113
MIN	67	70	52	38	64	69	76	105	273	149	111	97
AC-FT	5,850	5,010	4,420	4,120	4,080	4,960	5,290	16,910	34,230	12,340	8,110	6,110
CAL YR 1971	TOTAL 60,720	MEAN 166	MAX 988	MIN 52	AC-FT 120,400							
WTR YR 1972	TOTAL 56,171	MEAN 153	MAX 1,030	MIN 38	AC-FT 111,400							

PEAK DISCHARGE (BASE, 510 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-21	2115	3.29	695
6- 3	2315	4.05	1,290

YELLOWSTONE RIVER BASIN

69

06290500 LITTLE BIGHORN RIVER BELOW PASS CREEK, NEAR WYOLA, MONT.

LOCATION.--Lat 45°10'38", long 107°23'36", in W½SW¼ sec.35, T.7 S., R.35 E., Big Horn County, on right bank 3.5 miles north of Wyola and 6 miles downstream from Pass Creek.

DRAINAGE AREA.--428 sq mi.

PERIOD OF RECORD.--March 1939 to December 1958, August 1959 to current year. Prior to October 1940, published as Little Horn River below Pass Creek, near Wyola.

GAGE.--Water-stage recorder. Altitude of gage is 3,600 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 205 cfs (148,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,040 cfs Feb. 28 (gage height, 5.77 ft); minimum daily, 50 cfs Jan. 27.

Period of record: Maximum discharge, 3,630 cfs June 14, 1963 (gage height, 7.43 ft), from rating curve extended above 2,800 cfs; minimum, 12 cfs Aug. 5, 7, 8, 1961 (gage height, 0.89 ft).

REMARKS.--Records excellent except those for winter period, which are poor. Diversions for irrigation of about 8,300 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	156	120	110	110	407	210	233	851	306	170	143
2	234	157	105	105	90	305	210	218	989	360	174	136
3	180	152	110	100	100	267	200	212	1,100	336	201	139
4	162	192	120	80	110	225	196	208	1,130	327	181	136
5	157	190	130	110	115	212	187	252	1,080	302	167	132
6	155	152	130	120	125	398	180	245	994	283	149	136
7	150	150	130	130	130	503	179	242	991	277	145	140
8	151	161	110	130	125	317	174	256	981	255	151	133
9	149	155	120	130	125	316	174	251	983	243	148	130
10	146	155	125	125	115	366	174	253	850	234	141	131
11	144	154	120	110	120	373	174	253	812	222	137	133
12	143	151	115	100	125	363	174	255	768	216	138	131
13	142	149	115	90	130	327	180	257	694	207	139	145
14	145	146	110	95	130	313	185	255	632	203	139	133
15	151	145	110	100	130	286	177	285	583	201	157	128
16	153	147	115	110	130	272	174	337	540	184	156	124
17	150	143	120	120	135	273	176	410	505	189	156	120
18	216	138	120	120	140	256	186	509	480	180	150	123
19	208	136	110	110	150	248	194	611	545	182	164	121
20	190	147	115	105	400	244	196	593	508	191	154	119
21	181	141	120	105	326	235	192	688	452	226	151	119
22	167	141	120	110	286	226	194	799	431	203	145	120
23	160	138	120	100	264	228	196	712	411	187	143	125
24	159	135	110	90	243	269	183	657	409	183	160	125
25	157	144	90	80	242	238	182	637	392	187	143	136
26	154	141	80	70	183	227	186	598	386	184	139	135
27	162	140	90	50	209	215	177	566	363	176	136	140
28	147	136	100	65	1,170	207	174	526	342	181	134	138
29	137	130	105	85	1,070	200	177	549	320	167	130	136
30	141	125	115	100	-----	202	209	608	306	162	130	136
31	152	-----	120	110	-----	207	-----	707	-----	164	140	-----
TOTAL	5,005	4,447	3,520	3,165	6,728	8,725	5,570	13,182	19,828	6,918	4,668	3,943
MEAN	161	148	114	102	232	281	186	425	661	223	151	131
MAX	234	192	130	130	1,170	503	210	799	1,130	360	201	145
MIN	137	125	80	50	90	200	174	208	306	162	130	119
AC-FT	9,930	8,820	6,980	6,280	13,340	17,310	11,050	26,150	39,330	13,720	9,260	7,820
CAL YR 1971	TOTAL 88,338	MEAN 242	MAX 1,150	MIN 80	AC-FT 175,200							
WTR YR 1972	TOTAL 85,699	MEAN 234	MAX 1,170	MIN 50	AC-FT 170,000							

PEAK DISCHARGE (BASE, 580 CFS)

NOTE.--Stage-discharge relation affected by ice Nov. 29 to Feb. 20.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
2-28	2230	5.77	2,040	5-22	0615	3.83	845
3- 6	2345	3.63	764	6- 4	0900	4.58	1,250

YELLOWSTONE RIVER BASIN

06297000 SOUTH TONGUE RIVER NEAR DAYTON, WY.

LOCATION.--Lat 44°47'02", long 107°28'10", in sec.33, T.56 N., R.88 W., Sheridan County, Bighorn National Forest, on left bank 60 ft downstream from Johnson Creek and 12 miles southwest of Dayton.

DRAINAGE AREA.--85.0 sq mi.

PERIOD OF RECORD.--September 1945 to October 1971, April to September 1972 (discontinued). Prior to October 1960, published as South Fork Tongue River near Dayton. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 7,621.78 ft above mean sea level (Bureau of Reclamation bench mark).

AVERAGE DISCHARGE.--26 years (1945-71), 78.8 cfs (57,090 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 876 cfs June 2 (gage height, 5.04 ft); minimum daily during period of operation, 11 cfs Apr. 3, 4.
Period of record: Maximum discharge, 1,910 cfs June 4, 1968 (gage height, 6.20 ft); minimum daily, 7.0 cfs Mar. 25, Apr. 4, 1955, Feb. 7, 1971.
Maximum stage known, about 6.36 ft, from floodmarks (date unknown).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26						12	31	622	157	58	48
2	23						12	28	741	185	66	41
3	30						11	28	694	187	90	40
4	34						11	36	675	196	76	44
5	38						13	43	622	181	64	38
6	41						13	40	588	155	58	45
7	40						13	43	600	146	58	50
8	33						13	49	631	132	58	41
9	28						13	65	600	124	60	36
10	29						14	73	584	117	56	36
11	28						16	63	504	113	54	36
12	28						17	57	471	107	48	33
13	25						16	53	420	103	44	32
14	24						15	76	379	99	43	31
15	25						16	138	354	97	45	30
16	27						17	202	336	94	40	29
17	29						18	280	308	104	41	29
18	29						17	348	288	99	43	28
19	25						15	366	354	88	51	28
20	31						15	450	369	88	51	29
21	28						16	609	322	103	43	28
22	22						16	551	260	80	51	28
23	25						16	471	236	73	50	28
24	28						21	457	224	68	67	28
25	29						20	471	224	71	47	31
26	26						17	437	211	63	42	27
27	16						16	391	200	73	39	37
28	21						20	382	181	70	38	34
29	27						28	433	170	106	36	31
30	29						36	489	164	96	36	33
31	27	-----			-----		-----	559	-----	66	50	-----
TOTAL	871						493	7,719	12,332	3,441	1,603	1,029
MEAN	28.1						16.4	249	411	111	51.7	34.3
MAX	41						36	609	741	196	90	50
MIN	16						11	28	164	63	36	27
AC-FT	1,730						978	15,310	24,460	6,830	3,180	2,040

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-21	1930	4.89	796
6- 2	2230	5.04	876

06298000 TONGUE RIVER NEAR DAYTON, WYO.

LOCATION.--Lat 44°50'58", long 107°18'14", in NE¼NE¼NE¼ sec.11, T.56 N., R.87 W., Sheridan County, on left bank 0.5 mile upstream from Crystal Draw, 0.6 mile downstream from intake of Highline ditch, and 2.5 miles southwest of Dayton.

DRAINAGE AREA.--204 sq mi.

PERIOD OF RECORD.--October 1918 to September 1929, October 1940 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 4,060 ft (from topographic map).

AVERAGE DISCHARGE.--43 years (1918-29, 1940-72), 187 cfs (135,500 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,440 cfs June 3 (gage height, 4.44 ft); minimum daily, 37 cfs Jan. 26.

Period of record: Maximum discharge, 3,400 cfs June 3, 1944 (gage height, 6.45 ft); minimum daily, 18 cfs Nov. 29, 1919.

REMARKS.--Records excellent. Small diversion above station for Dayton municipal supply. Figures of daily discharge do not include water diverted 0.6 mile above station by Highline ditch for irrigation below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1921.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	77	53	56	66	56	65	131	1,060	322	172	108
2	66	79	53	58	60	55	66	117	1,250	359	178	98
3	65	79	60	53	52	55	58	119	1,220	364	235	96
4	76	89	68	52	50	52	50	143	1,210	359	178	98
5	100	77	69	62	51	53	69	187	1,140	334	158	95
6	102	58	71	58	53	59	71	156	1,090	298	148	100
7	100	76	62	58	58	48	71	161	1,110	278	145	110
8	89	84	59	56	56	55	71	167	1,150	260	145	98
9	82	82	77	55	55	59	71	212	1,110	246	150	91
10	80	84	71	51	53	62	74	238	1,040	232	145	87
11	79	84	69	52	50	62	82	205	951	222	138	89
12	77	84	68	51	52	59	93	193	870	212	117	86
13	76	86	68	48	55	59	84	184	800	205	110	86
14	77	82	68	47	53	59	80	246	740	205	108	84
15	76	82	66	65	55	59	82	390	677	202	108	82
16	79	90	63	60	56	62	91	522	647	199	102	80
17	84	74	59	55	53	68	98	653	594	215	102	76
18	89	68	59	53	56	72	91	770	572	222	102	74
19	69	66	59	53	56	80	82	770	677	196	115	74
20	34	77	59	52	58	80	79	818	677	196	117	74
21	82	77	59	55	56	72	80	1,120	605	222	110	74
22	72	76	58	55	56	77	87	1,040	528	190	110	74
23	76	66	56	55	53	91	77	874	485	172	110	74
24	79	59	58	45	52	80	84	918	470	164	143	76
25	87	76	56	41	53	76	106	825	460	158	113	79
26	82	68	46	37	53	74	91	764	435	158	106	79
27	84	69	56	40	56	59	84	701	400	158	102	93
28	53	68	53	55	50	55	100	665	372	164	100	86
29	48	68	58	77	59	56	140	732	350	150	96	79
30	76	65	58	69	-----	66	169	825	342	145	95	82
31	82	-----	56	68	-----	69	-----	958	-----	153	110	-----
TOTAL	2,457	2,270	1,895	1,692	1,595	1,989	2,555	15,704	23,032	6,960	3,968	2,582
MEAN	79.3	75.7	61.1	54.6	55.0	64.2	85.2	507	768	225	128	86.1
MAX	102	89	77	77	66	91	169	1,120	1,250	364	235	110
MIN	48	58	46	37	50	48	58	117	342	145	95	74
AC-FT	4,870	4,500	3,760	3,360	3,160	3,950	5,070	31,150	45,680	13,810	7,870	5,120
†	727	0	0	0	0	0	0	440	1,290	884	1,090	1,300

ADJUSTED FOR DIVERSION BY HIGHLINE DITCH

MEAN	91.1	75.7	61.1	54.6	55.0	64.2	85.2	514	789	239	146	108
AC-FT	5,600	4,500	3,760	3,360	3,160	3,950	5,070	31,590	46,980	14,690	8,960	6,420

UNADJUSTED

CAL YR 1971	TOTAL 65,964	MEAN 181	MAX 1,590	MIN 44	AC-FT 130,800	MEAN 189	AC-FT 136,490
WTR YR 1972	TOTAL 66,699	MEAN 182	MAX 1,250	MIN 37	AC-FT 132,300	MEAN 190	AC-FT 138,030

PEAK DISCHARGE (BASE, 980 CFS)

†. Diversion, in acre-ft, above station by Highline ditch.

DATE	TIME	G.HT.	DISCHARGE
5-21	2130	4.40	1,400
6-3	0100	4.44	1,440

YELLOWSTONE RIVER BASIN

06298500 LITTLE TONGUE RIVER NEAR DAYTON, WYO.

LOCATION.--Lat 44°48'38", long 107°17'02", in SW¼NE¼SE¼ sec.24, T.56 N., R.87 W., Sheridan County, on right bank 0.1 mile downstream from South Fork, 0.2 mile upstream from East Fork, and 4.5 miles south of Dayton.

DRAINAGE AREA.--25.1 sq mi.

PERIOD OF RECORD.--January 1951 to December 1953, March 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (from topographic map).

AVERAGE DISCHARGE.--19 years, 12.8 cfs (9,270 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 123 cfs May 20 (gage height, 2.50 ft); minimum daily, 1.4 cfs Jan. 26.

Period of record: Maximum discharge, 850 cfs June 9, 1964 (gage height, 4.60 ft), from rating curve extended above 300 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.80 cfs Sept. 4-7, 1960.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.1	2.9	2.4	1.7	2.8	3.7	13	89	18	7.7	3.7
2	2.9	3.1	2.7	2.3	1.6	2.8	3.7	13	90	20	7.9	3.5
3	2.4	3.4	2.8	2.0	1.6	2.8	3.4	13	83	22	11	3.4
4	3.1	4.0	3.0	1.8	1.7	2.8	3.2	15	81	22	8.7	3.3
5	3.7	3.7	3.0	1.9	1.8	3.0	3.5	19	77	20	7.4	3.0
6	4.0	3.4	3.0	2.2	1.9	3.3	4.1	17	75	19	6.7	2.9
7	4.0	3.7	2.8	2.3	2.1	3.0	4.5	17	73	18	6.3	3.4
8	4.0	3.4	2.5	2.3	2.0	3.0	4.8	17	71	16	5.8	3.2
9	3.1	3.4	2.5	2.3	1.9	3.2	4.8	18	71	15	5.5	2.8
10	2.9	3.4	2.7	2.2	1.8	3.8	4.8	19	67	15	5.3	2.6
11	3.1	3.4	2.6	2.3	1.9	4.4	5.6	19	64	14	5.5	2.6
12	2.9	3.4	2.4	2.2	2.0	4.0	6.9	19	63	14	5.2	2.6
13	2.9	3.7	2.4	2.0	2.1	4.0	6.8	19	60	13	4.8	2.6
14	3.1	3.7	2.4	1.7	2.1	4.0	6.5	26	57	13	4.5	2.6
15	3.4	3.4	2.5	1.8	2.0	4.0	6.2	41	54	13	4.5	2.5
16	3.1	3.4	2.6	2.1	2.2	4.2	6.5	54	50	12	4.3	2.4
17	3.4	3.1	2.8	2.2	2.1	4.2	7.2	73	46	13	4.1	2.3
18	4.5	3.1	2.6	2.2	2.1	4.3	7.3	88	42	12	4.0	2.3
19	3.4	3.4	2.4	2.1	2.2	4.4	7.2	93	43	11	4.5	2.3
20	4.2	3.4	2.4	1.9	2.3	4.4	7.0	99	40	11	4.7	2.4
21	4.8	3.1	2.3	2.1	2.3	4.5	7.2	104	37	13	4.4	2.4
22	4.5	3.1	2.3	2.0	2.2	4.5	7.2	106	34	11	3.9	2.4
23	4.5	2.9	2.3	1.9	2.1	5.4	7.2	103	32	9.9	3.7	2.4
24	4.5	2.9	2.3	1.7	2.0	5.1	7.3	102	30	9.2	4.1	2.4
25	4.5	3.1	2.2	1.5	2.0	4.8	7.8	101	27	8.4	3.7	2.6
26	4.5	2.9	2.1	1.4	2.1	4.8	7.8	97	25	8.3	3.3	2.6
27	4.2	2.9	1.9	1.5	2.2	4.3	7.8	94	23	8.1	3.0	2.6
28	3.1	2.9	2.0	1.6	2.4	4.0	8.5	93	22	8.4	2.9	2.6
29	2.9	2.9	2.3	1.9	3.0	4.0	11	91	20	7.7	2.9	2.6
30	3.1	3.1	2.4	1.9	-----	4.0	14	89	19	7.1	2.9	2.6
31	3.1	-----	2.4	1.8	-----	4.0	-----	88	-----	7.1	3.4	-----
TOTAL	110.7	98.4	77.5	61.5	59.4	121.8	193.5	1,760	1,565	409.2	156.6	81.6
MEAN	3.57	3.28	2.50	1.98	2.05	3.93	6.45	56.8	52.2	13.2	5.05	2.72
MAX	4.8	4.0	3.0	2.4	3.0	5.4	14	106	90	22	11	3.7
MIN	2.4	2.9	1.9	1.4	1.6	2.8	3.2	13	19	7.1	2.9	2.3
AC-FT	220	195	154	122	118	242	384	3,490	3,100	812	311	162

CAL YR 1971 TOTAL 5,410.0

MEAN 14.8

MAX 130

MIN 1.7

AC-FT 10,730

WTR YR 1972 TOTAL 4,695.2

MEAN 12.8

MAX 106

MIN 1.4

AC-FT 9,310

PEAK DISCHARGE (BASE, 100 CFS)

NOTE.--No gage-height record Jan. 25 to Mar. 22.

DATE TIME G.H.T. DISCHARGE

5-20 2200 2.50 123

YELLOWSTONE RIVER BASIN

73

06299500 WOLF CREEK AT WOLF, WYO.

LOCATION.--Lat 44°46'21", long 107°14'01", in NE¼SW¼NW¼ sec.4, T.55 N., R.86 W., Sheridan County, on left bank at Wolf and 0.5 mile downstream from Red Canyon Creek.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--January 1945 to current year (no winter records since 1971). Monthly discharge for January to March 1945, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 4,525 ft (from topographic map). Prior to May 26, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years (1945-1971), 29.3 cfs (21,230 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 222 cfs June 1, 3 (gage height, 2.54 ft); minimum daily during period of operation, 5.8 cfs Mar. 4.
Period of record: Maximum discharge, 1,130 cfs June 15, 1963 (gage height, 4.60 ft), from rating curve extended above 500 cfs; no flow for part of each day Jan. 13, 15, 29, 30, Feb. 26, 1947, result of freezeup.
Maximum stage known, about 5.0 ft May 18, 1944.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9					6.2	9.9	22	167	52	23	15
2	8.3					6.2	9.8	21	195	56	24	14
3	9.9					6.0	9.1	22	190	58	29	13
4	1.7					5.8	9.2	23	193	56	23	14
5	11					6.0	10	28	178	48	20	13
6	12					7.3	11	26	169	44	19	14
7	12					7.0	11	26	177	41	18	16
8	11					7.3	11	26	178	37	17	13
9	9.2					7.5	11	27	172	36	19	12
10	9.2					8.6	12	29	160	34	18	11
11	9.2					9.2	13	29	150	33	17	12
12	9.2					9.0	14	29	140	31	16	11
13	8.9					9.1	14	30	130	30	15	11
14	9.2					9.5	13	34	120	29	15	11
15	9.6					8.9	13	45	110	29	15	10
16	8.9					9.5	14	56	100	28	14	9.9
17	9.9					11	16	76	96	31	14	9.6
18	11					11	15	103	92	29	16	9.6
19	11					12	14	111	105	27	19	9.6
20	11					12	15	124	110	28	18	9.6
21	10					11	15	155	98	30	17	9.6
22	8.6					11	16	156	84	25	15	9.6
23	9.2					13	15	147	78	24	15	9.6
24	9.6					12	16	147	74	23	18	9.9
25	9.6					11	17	146	72	22	15	11
26	9.6					11	17	139	68	22	13	9.9
27	8.3					10	16	131	64	22	13	11
28	6.4					9.9	18	128	60	22	12	12
29	8.6					9.6	21	130	56	20	12	11
30	9.6				-----	10	24	136	54	19	12	11
31	9.2	-----			-----	9.8	-----	149	-----	22	14	-----
TOTAL	297.1					287.4	420.0	2,451	3,640	1,008	525	342.9
MEAN	9.58					9.27	14.0	79.1	121	32.5	16.9	11.4
MAX	12					13	24	156	195	58	29	16
MIN	6.4					5.8	9.1	21	54	19	12	9.6
AC-FT	589					570	833	4,860	7,220	2,000	1,040	680

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G.H.T.	DISCHARGE
6- 1	2215	2.54	222

YELLOWSTONE RIVER BASIN

06300500 EAST FORK BIG GOOSE CREEK NEAR BIG HORN, WYO.

LOCATION.--Lat 44°32'18", long 107°13'33", in SE~~SE~~^{SE} sec.28, T.53 N., R.86 W., Johnson County, Bighorn National Forest, on right bank 0.7 mile upstream from Park Reservoir and 16 miles southwest of Big Horn.

DRAINAGE AREA.--20.1 sq mi.

PERIOD OF RECORD.--October 1953 to current year. Prior to October 1960, published as East Goose Creek near Big Horn.

GAGE.--Water-stage recorder. Altitude of gage is 8,320 ft (from topographic map). Prior to June 28, 1960, water-stage recorder at site 1.1 miles downstream at different datum. June 28, 1960, to July 14, 1970, water-stage recorder at site 0.9 mile downstream at different datums and July 15, 1970, to Oct. 7, 1970, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--19 years, 32.4 cfs (23,470 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,030 cfs June 8 (gage height, 6.51 ft), from rating curve extended above 250 cfs on basis of slope-area measurement of peak flow; minimum daily, 1.3 cfs Feb. 25. Period of record: Maximum discharge, 1,230 cfs June 15, 1963 (gage height, 4.59 ft), site and datum then in use), from rating curve extended above 250 cfs on basis of slope-area measurement of peak flow; minimum daily, 1.0 cfs Dec. 11-14, 1963, Mar. 24, 25, Nov. 14, 15, 1964, Mar. 18, 1971.

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

REVISIONS.--WRD Wyo. 1971: Drainage area.

EAST FORK BIG GOOSE CREEK NEAR BIG HORN, WYO.

NUMBER 06300500

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	8.0	3.6	2.5	2.0	1.6	1.7	4.4	347	105	49	32
2	8.8	7.0	3.3	2.5	1.9	1.5	1.8	4.2	407	114	64	30
3	9.1	6.4	2.9	2.4	1.9	1.5	1.6	5.0	386	90	99	28
4	9.3	6.6	2.9	2.2	1.9	1.5	1.7	6.4	383	80	66	26
5	10	6.2	2.9	2.6	1.9	1.4	1.9	7.7	341	84	51	24
6	11	5.8	3.0	2.5	1.9	1.5	1.9	7.7	312	92	44	31
7	12	6.0	3.2	2.5	2.0	1.4	1.9	8.8	386	90	40	38
8	12	6.0	3.0	2.4	1.9	1.5	1.9	9.3	529	96	37	35
9	11	6.0	2.8	2.4	1.9	1.6	1.9	12	380	89	36	29
10	11	5.8	2.8	2.2	1.9	1.7	2.0	14	320	81	34	26
11	11	5.7	2.8	2.2	1.9	1.7	2.3	12	300	81	32	25
12	10	5.7	2.8	2.2	1.9	1.6	2.5	13	270	77	30	23
13	10	5.5	2.8	2.1	1.8	1.6	2.3	13	210	74	28	22
14	10	5.5	2.8	2.0	1.8	1.6	2.2	16	170	73	27	20
15	11	5.3	2.8	2.8	1.8	1.6	2.3	22	167	58	27	19
16	11	5.3	2.8	2.5	1.7	1.7	2.5	34	161	52	25	18
17	11	5.2	2.8	2.3	1.7	1.8	2.7	54	162	58	24	16
18	13	4.8	2.8	2.2	1.7	2.0	2.4	116	155	52	23	15
19	12	4.3	2.6	2.2	1.7	2.2	2.2	136	158	50	24	14
20	12	4.6	2.5	2.2	1.7	2.2	2.2	130	130	47	23	13
21	11	4.2	2.5	2.3	1.6	2.0	2.3	195	121	55	24	13
22	9.8	4.2	2.5	2.3	1.6	2.1	2.4	170	120	52	39	12
23	9.8	4.2	2.3	2.3	1.5	2.4	2.1	122	136	43	38	12
24	10	4.4	2.2	2.1	1.4	2.2	2.4	114	139	39	90	12
25	10	4.4	2.2	2.0	1.3	2.0	2.8	142	154	38	54	12
26	9.8	4.2	2.2	1.9	1.4	2.0	2.4	124	124	35	42	11
27	7.0	4.2	2.1	1.9	1.4	1.6	2.3	109	102	34	37	11
28	6.0	4.0	2.3	2.0	1.5	1.5	2.8	108	88	39	32	12
29	5.8	4.2	2.4	2.2	1.6	1.6	4.4	122	102	34	30	11
30	5.7	3.9	2.5	2.1	-----	1.8	5.0	177	108	32	30	11
31	6.6	-----	2.5	2.1	-----	1.9	-----	255	-----	36	34	-----
TOTAL	304.2	157.6	83.6	70.1	50.1	54.3	70.8	2,264.0	6,877	1,980	1,233	601
MEAN	9.81	5.25	2.70	2.26	1.73	1.75	2.36	73.0	229	63.9	39.8	20.0
MAX	13	8.0	3.6	2.8	2.0	2.4	5.0	255	529	114	99	38
MIN	5.7	3.9	2.1	1.9	1.3	1.4	1.6	4.2	88	32	23	11
AC-FT	603	313	166	139	99	108	140	4,490	13,640	3,930	2,450	1,190
CAL YR 1971	TOTAL 12,639.0 MEAN 34.6 MAX 424 MIN 1.0 AC-FT 25,070											
WTR YR 1972	TOTAL 13,745.7 MEAN 37.6 MAX 529 MIN 1.3 AC-FT 27,260											

PEAK DISCHARGE (BASE, 180 CFS)

NOTE.--No gage-height record Jan. 9 to Apr. 27.

DATE	TIME	G.HT.	DISCHARGE
5-21	1930	4.46	229
6-8	2000	6.51	1,030

YELLOWSTONE RIVER BASIN

75

06301500 WEST FORK BIG GOOSE CREEK NEAR BIG HORN, WYO.

LOCATION.--Lat 44°36'47", long 107°17'49", Sheridan County, Bighorn National Forest, on left bank 0.30 mile downstream from Twin Lakes Branch and 16 miles west of Big Horn.

DRAINAGE AREA.--24.4 sq mi.

PERIOD OF RECORD.--October 1953 to current year (no winter records since 1971). Prior to October 1960, published as West Goose Creek near Big Horn.

GAGE.--Water-stage recorder. Altitude of gage is 8,420 ft (from topographic map).

AVERAGE DISCHARGE.--18 years (1953-71), 34.4 cfs (24,920 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 488 cfs June 8 (gage height, 4.14 ft); minimum daily during period of operation, 2.4 cfs Apr. 3, 4.

Period of record: Maximum discharge, 1,030 cfs June 15, 1963 (gage height, 5.37 ft), from rating curve extended above 410 cfs on basis of velocity-area study; minimum daily, 0.80 cfs Dec. 14, 26, 1963, Jan. 15, 16, Feb. 26, 1964.

REMARKS.--Records good. Some regulation by Twin Lakes (capacity, 1,200 acre-ft) and Dome Lake (capacity, 1,800 acre-ft). No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6						2.6	5.4	312	109	57	39
2	9.2						2.7	4.9	422	124	66	39
3	9.2						2.4	4.9	452	110	106	38
4	9.2						2.4	5.6	428	100	107	38
5	9.9						2.8	6.6	440	98	92	40
6	8.6						2.9	6.6	390	95	73	41
7	8.4						2.9	6.6	390	90	63	42
8	8.2						2.9	7.2	461	92	57	42
9	8.2						2.9	8.9	419	88	49	42
10	8.2						3.0	9.5	352	92	48	41
11	8.2						3.4	9.5	345	80	47	40
12	7.9						3.7	8.9	291	76	54	58
13	7.9						3.4	9.2	262	74	52	32
14	8.2						3.3	11	223	72	50	74
15	8.2						3.4	13	188	70	47	53
16	8.2						3.7	16	130	65	44	29
17	8.2						4.0	22	111	66	40	25
18	8.6						3.7	25	145	68	43	26
19	8.4						3.4	26	188	60	41	32
20	8.2						3.2	27	186	57	40	32
21	7.9						3.3	33	144	61	39	31
22	7.6						3.6	36	127	57	39	31
23	7.6						3.7	33	133	55	39	30
24	7.9						3.5	35	144	49	40	29
25	7.9						4.3	80	146	46	39	28
26	7.9						3.7	101	139	38	40	26
27	7.6						4.0	104	123	51	41	23
28	7.4						4.4	130	98	54	41	16
29	7.2						4.9	144	77	53	40	14
30	7.2				-----		5.6	145	97	55	39	14
31	7.9	-----			-----		-----	214	-----	56	40	-----
TOTAL	252.8						103.2	1,288.8	7,372	2,251	1,603	1,095
MEAN	8.15						3.44	41.6	246	72.6	51.7	36.5
MAX	9.2						5.6	214	461	124	107	92
MIN	7.2						2.4	4.9	77	38	39	14
AC-FT	501						205	2,560	14,620	4,460	3,180	2,170

YELLOWSTONE RIVER BASIN

06302000 BIG GOOSE CREEK NEAR SHERIDAN, WYO.

LOCATION.--Lat 44°42'08", long 107°10'51", in NW¼NE¼ sec.35, T.55 N., R.86 W., Sheridan County, on right bank 0.4 mile upstream from Cave Creek and 14 miles southwest of Sheridan.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--September 1929 to current year (no winter records since 1971). Prior to October 1960, published as Goose Creek near Sheridan. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 4,505 ft (from topographic map).

AVERAGE DISCHARGE.--42 years (1929-71), 79.6 cfs (57,670 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 672 cfs June 13 (gage height, 3.55 ft); minimum daily during period of operation, 7.9 cfs Sept. 30.
Period of record: Maximum discharge, 3,160 cfs June 15, 1963 (gage height, 5.83 ft), from rating curve extended above 1,600 cfs; minimum daily, 1.6 cfs Nov. 29, 1954.

REMARKS.--Records fair. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 20 acres above station, and return flow from irrigated areas. PK ditch by-passes station.

REVISIONS (WATER YEARS).--WSP 1006: Drainage area. WSP 1509: 1930(M), 1931.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18						26	52	420	99	35	28
2	39						28	44	570	143	43	28
3	37						21	44	570	132	132	26
4	40						19	48	545	115	129	25
5	42						20	48	560	106	85	25
6	44						21	58	525	93	67	27
7	40						24	66	500	86	55	26
8	38						22	80	575	78	48	24
9	36						22	75	560	75	41	21
10	35						23	70	525	60	33	21
11	35						26	64	496	46	26	21
12	35						29	67	476	41	30	26
13	34						28	65	448	38	29	52
14	34						33	80	404	48	27	50
15	38						38	104	343	42	26	43
16	37						43	103	234	37	24	16
17	36						47	136	172	41	19	11
18	40						49	160	188	42	24	9.5
19	41						51	170	283	34	29	16
20	39						47	210	280	32	28	16
21	38						41	260	244	33	26	15
22	37						51	270	195	28	26	16
23	36						48	230	181	26	26	20
24	37						45	190	184	19	28	19
25	37						47	210	188	11	28	21
26	37						49	280	184	7.6	27	24
27	37						42	230	166	17	27	23
28	29						46	190	130	22	26	13
29	26						50	270	86	18	26	10
30	30				-----		61	260	92	19	26	7.9
31	32	-----			-----		-----	316	-----	26	28	-----
TOTAL	1,114						1,097	4,400	10,324	1,614.6	1,224	679.4
MEAN	35.9						36.6	142	344	52.1	39.5	22.6
MAX	44						61	316	575	143	132	52
MIN	18						19	44	86	7.6	19	7.9
AC-FT	2,210						2,180	8,730	20,480	3,200	2,430	1,350

YELLOWSTONE RIVER BASIN

77

06303500 LITTLE GOOSE CREEK IN CANYON, NEAR BIG HORN, WYO.

LOCATION.--Lat 44°35'46", long 107°02'22", in SE¼SW¼NE¼ sec.1, T.53 N., R.85 W., Sheridan County, on left bank 100 ft upstream from headgate of Lower Peralta ditch and 6.5 miles southwest of Big Horn.

DRAINAGE AREA.--55 sq mi, approximately.

PERIOD OF RECORD.--April 1941 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 4,860 ft (from topographic map).

AVERAGE DISCHARGE.--30 years (1941-71), 63.4 cfs (45,930 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 703 cfs June 9 (gage height, 5.16 ft); minimum daily during period of operation, 21 cfs Oct. 28.

Period of record: Maximum discharge, 1,350 cfs June 15, 1963 (gage height, 6.78 ft), from rating curve extended above 900 cfs; minimum recorded, 2.2 cfs Dec. 4, 1949 (gage height, 0.71 ft).

REMARKS.--Records good. Three small reservoirs above station (combined capacity, 860 acre-ft), two of which store some imported water. Water imported into drainage basin above station from East Goose Creek basin is diverted below station for irrigation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28						30	56	247	112	97	98
2	28						32	57	270	130	106	96
3	29						28	58	274	135	125	95
4	29						28	54	250	125	104	92
5	32						30	56	238	115	97	88
6	32						32	60	225	110	94	90
7	30						30	65	235	112	93	83
8	29						28	66	274	106	88	78
9	27						28	69	371	104	90	72
10	27						27	74	300	100	92	71
11	27						32	71	259	96	88	70
12	27						39	74	281	94	88	64
13	25						39	75	259	83	88	63
14	27						37	86	245	86	90	63
15	27						40	104	214	85	97	63
16	26						46	135	201	76	95	59
17	27						47	172	198	74	93	59
18	30						45	208	184	73	101	59
19	28						44	221	203	75	108	56
20	29						42	225	190	89	102	57
21	28						40	265	184	92	102	51
22	27						41	258	170	91	105	53
23	27						39	230	165	88	102	62
24	28						40	221	164	88	106	63
25	27						45	226	192	86	97	63
26	27						43	213	184	85	95	53
27	25						43	197	178	89	94	53
28	21						46	183	155	89	94	54
29	23						51	183	125	91	97	54
30	29					-----	58	195	110	88	99	52
31	28	-----			-----	-----	-----	218	-----	95	99	-----
TOTAL	854						1,150	4,375	6,545	2,962	3,026	2,034
MEAN	27.5						38.3	141	218	95.5	97.6	67.8
MAX	32						58	265	371	135	125	98
MIN	21						27	54	110	73	88	51
AC-FT	1,690						2,280	8,680	12,980	5,880	6,000	4,030

PEAK DISCHARGE (BASE, 420 CFS)

DATE	TIME	G.H.T.	DISCHARGE
6- 9	1800	5.16	703

YELLOWSTONE RIVER BASIN

06305500 GOOSE CREEK BELOW SHERIDAN, WYO.

LOCATION.--Lat 44°49'25", long 106°57'40", in SE¼SW¼ sec.15, T.56 N., R.84 W., Sheridan County, on right bank 700 ft north of Sheridan city limits and 0.2 mile downstream from Soldier Creek.

DRAINAGE AREA.--392 sq mi.

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for October to December 1941, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 3,701.36 ft above mean sea level. Prior to Aug. 3, 1951, non-recording gage at site 600 ft upstream at datum 2.18 ft lower.

AVERAGE DISCHARGE.--31 years, 181 cfs (131,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,070 cfs June 10 (gage height, 3.90 ft); maximum gage height, 9.11 ft Feb. 28 (backwater from ice); minimum daily discharge, 52 cfs Jan. 26.
Period of record: Maximum discharge, 5,450 cfs June 16, 1963 (gage height, 7.82 ft); maximum gage height, 9.11 ft Feb. 28, 1972 (backwater from ice); minimum daily discharge, 4.0 cfs Aug. 11, 1957.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by many small reservoirs (combined capacity, about 15,000 acre-ft). Natural flow of stream affected by transbasin diversions, 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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	137	88	76	60	220	138	188	550	152	77	118
2	197	136	56	76	60	150	146	174	705	242	89	116
3	148	125	76	74	62	130	124	180	794	288	211	137
4	126	141	102	70	64	120	125	177	772	256	238	150
5	122	157	100	82	64	120	127	205	750	220	188	139
6	124	111	100	78	66	250	132	199	650	194	144	145
7	120	117	104	74	68	200	134	205	610	191	129	157
8	115	156	92	74	70	180	130	208	680	167	104	150
9	109	131	88	72	68	198	128	214	816	160	91	145
10	114	131	110	68	68	266	129	220	908	152	82	130
11	114	130	100	66	68	271	137	217	685	126	74	134
12	112	128	84	66	68	262	150	211	710	99	67	120
13	111	126	90	64	72	234	144	217	635	89	79	122
14	127	123	94	62	70	237	154	226	565	77	81	141
15	136	120	98	70	72	224	145	263	492	83	85	134
16	136	125	96	72	74	217	150	280	356	83	90	114
17	133	126	90	70	68	216	157	322	263	89	84	89
18	217	109	88	68	74	193	164	416	238	99	87	90
19	182	108	88	68	74	186	167	469	487	79	103	84
20	149	144	88	66	80	185	157	478	528	92	114	74
21	140	125	88	72	110	165	152	560	444	109	116	85
22	135	122	86	70	120	153	167	565	360	101	105	92
23	131	116	84	70	110	164	160	496	312	76	101	92
24	131	109	86	64	100	180	150	448	312	70	105	90
25	129	126	84	58	98	156	157	474	333	63	106	118
26	130	120	70	52	96	159	164	532	330	58	106	141
27	143	121	60	56	110	134	154	469	319	54	96	141
28	122	114	82	62	400	125	154	412	284	65	99	150
29	115	113	80	66	300	115	167	440	211	64	92	141
30	137	112	76	62	-----	131	191	404	162	57	87	143
31	142	-----	76	62	-----	138	-----	440	-----	58	101	-----
TOTAL	4,159	3,759	2,704	2,110	2,814	5,679	4,454	10,309	15,261	3,723	3,331	3,682
MEAN	134	125	87.2	68.1	97.0	183	148	333	509	120	107	123
MAX	217	157	110	82	400	271	191	565	908	288	238	157
MIN	109	108	56	52	60	115	124	174	162	54	67	74
AC-FT	8,250	7,460	5,360	4,190	5,580	11,260	8,830	20,450	30,270	7,380	6,610	7,300

CAL YR 1971 TOTAL 72,677 MEAN 199 MAX 1,380 MIN 25 AC-FT 144,200
WTR YR 1972 TOTAL 61,985 MEAN 169 MAX 908 MIN 52 AC-FT 122,900

PEAK DISCHARGE (BASE, 1,200 CFS).--No peak above base.

YELLOWSTONE RIVER BASIN

79

06306250 PRAIRIE DOG CREEK NEAR ACME, WYO.

LOCATION.--Lat 44°59'02", long 106°50'21", in NE¼SW¼SW¼ sec.23, T.58 N., R.83 W., Sheridan County, on right bank, 600 ft upstream from county bridge, 0.9 mile upstream from mouth, 2.8 miles downstream from Coutant Creek and 7.6 miles northeast of Acme.

DRAINAGE AREA.--358 sq mi.

PERIOD OF RECORD.--October 1970 to current year. Records for May to November 1965 and April 1966 to September 1970 in files of Wyoming State Engineer.

GAGE.--Water-stage recorder. Altitude of gage is 3,450 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 673 cfs May 22 (gage height, 5.59 ft), from rating curve extended above 190 cfs on basis of step-backwater computation; minimum, 11 cfs July 30, 31 (gage height, 0.73 ft).
Period of record: Maximum discharge, 673 cfs May 22, 1972 (gage height, 5.59 ft), from rating curve extended above 190 cfs on basis of step-backwater computation; maximum gage height, 5.62 ft Feb. 16, 1971 (backwater from ice); minimum discharge, 6.4 cfs Aug. 17, 1971 (gage height, 0.68 ft).

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 13,600 acres above station, of which about 60 acres lies below station. Flow supplemented by three trans-basin diversions from North Piney Creek and South Piney Creek via Prairie Dog ditch, Piney and Cruse ditch and Mead-Coffeen ditch.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	37	27	22	20	90	66	40	32	32	14	28
2	46	36	23	21	21	140	66	41	25	27	17	34
3	64	35	26	20	21	120	68	40	20	38	22	34
4	83	32	29	19	21	110	64	39	22	52	31	34
5	71	30	33	18	21	100	62	39	19	41	29	38
6	63	28	31	17	21	150	60	40	15	37	30	37
7	49	30	26	18	21	300	57	41	13	36	24	40
8	41	35	24	18	22	230	55	41	12	31	22	43
9	37	47	24	19	22	200	53	40	12	23	20	41
10	38	45	25	19	22	220	50	38	18	19	21	39
11	40	38	26	20	22	253	48	38	24	21	19	39
12	40	37	27	28	22	349	47	26	25	23	21	40
13	40	38	28	33	22	317	46	24	22	20	21	41
14	40	38	28	24	22	272	46	23	16	16	21	47
15	41	37	27	19	22	259	49	23	14	14	24	50
16	44	35	27	18	22	238	49	20	16	13	26	44
17	44	35	26	18	22	220	46	19	20	13	28	44
18	48	34	26	18	23	211	44	20	32	16	30	41
19	54	32	25	18	23	185	44	20	34	18	34	38
20	63	30	25	19	23	154	47	21	40	15	37	36
21	55	35	24	20	24	134	50	36	46	15	39	34
22	49	35	23	21	26	120	49	488	40	18	38	35
23	46	34	22	25	30	107	47	191	40	19	37	34
24	44	32	21	21	34	100	53	92	38	23	36	33
25	44	30	20	18	32	105	51	64	41	22	37	33
26	43	31	19	18	29	102	47	62	35	19	35	41
27	44	31	18	18	30	92	44	60	34	16	32	47
28	45	30	19	19	45	83	44	58	36	14	32	53
29	43	30	20	20	60	78	41	52	36	12	31	58
30	37	29	21	20	-----	69	40	43	36	11	29	58
31	38	-----	22	20	-----	66	-----	36	-----	11	30	-----
TOTAL	1,473	1,026	762	626	745	5,176	1,533	1,815	813	685	867	1,214
MEAN	47.5	34.2	24.6	20.2	25.7	167	51.1	58.5	27.1	22.1	28.0	40.5
MAX	83	47	33	33	60	349	68	488	46	52	39	58
MIN	37	28	18	17	20	66	40	19	12	11	14	28
AC-FT	2,920	2,040	1,510	1,240	1,480	10,270	3,040	3,600	1,610	1,360	1,720	2,410
CAL YR 1971	TOTAL 15,176.0 MEAN 41.6 MAX 457 MIN 7.4 AC-FT 30,100											
WTR YR 1972	TOTAL 16,735.0 MEAN 45.7 MAX 488 MIN 11 AC-FT 33,190											

NOTE.--Stage-discharge relation affected by ice Nov. 30 to Mar. 10.

YELLOWSTONE RIVER BASIN

06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MONT.

LOCATION.--Lat 45°00'32", long 106°50'08", in NW¼NE¼ sec.33, T.9 S., R.40 E., Big Horn County, on left bank 1 mile north of Wyoming-Montana State line, 1.5 miles upstream from Badger Creek, and 1.4 miles southeast of Decker.

DRAINAGE AREA.--1,477 sq mi.

PERIOD OF RECORD.--August 1960 to current year. Records published as "near Decker" May 1928 to September 1938 not equivalent owing to intervening drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 3,430 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 493 cfs (357,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,590 cfs May 22 (gage height, 6.38 ft); maximum gage height, 9.35 ft Feb. 29 (backwater from ice); minimum daily discharge, 150 cfs Dec. 27.

Period of record: Maximum discharge, 7,480 cfs June 15, 1967 (gage height, 10.86 ft); maximum gage height, 10.94 ft Feb. 6, 1963 (backwater from ice jam); minimum discharge, 3.9 cfs Aug. 23, 1961 (gage height, 1.83 ft).

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by many small reservoirs in Wyoming (combined capacity, about 15,000 acre-ft). Diversions for irrigation of about 64,300 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	307	250	200	210	1,400	414	497	1,630	476	230	222
2	316	309	220	210	210	1,300	412	453	1,860	493	265	249
3	392	301	230	210	200	1,200	417	430	2,080	649	309	251
4	324	293	240	200	200	1,100	377	438	2,060	674	444	272
5	320	337	250	210	200	1,000	375	471	1,990	621	404	284
6	316	340	250	220	200	1,100	376	545	1,840	554	353	277
7	309	270	220	230	200	1,300	379	519	1,750	517	319	293
8	288	300	200	230	210	1,100	363	528	1,760	489	296	315
9	277	330	220	240	210	840	352	530	1,900	456	274	310
10	270	310	240	230	210	1,000	345	576	2,160	442	264	291
11	269	306	250	220	210	1,200	349	610	1,800	424	244	277
12	270	304	230	200	210	1,400	367	564	1,680	400	236	287
13	263	306	210	190	220	1,240	383	563	1,560	393	224	278
14	270	301	200	180	220	985	382	559	1,370	365	216	286
15	293	294	210	180	220	942	374	655	1,240	355	209	292
16	302	294	230	190	230	879	367	861	1,140	345	204	280
17	303	291	230	200	230	862	373	1,030	970	346	199	260
18	340	279	220	220	240	811	386	1,300	881	353	193	243
19	483	260	200	230	240	715	400	1,480	998	343	208	239
20	380	272	200	220	250	667	392	1,490	1,380	326	232	220
21	347	298	210	230	260	616	376	1,760	1,200	355	239	209
22	330	285	210	230	270	549	383	2,360	1,070	376	230	217
23	311	278	210	220	270	523	401	1,940	967	331	216	221
24	303	262	200	210	260	572	377	1,680	844	302	214	222
25	308	264	200	200	250	577	371	1,630	820	293	243	226
26	311	282	170	180	240	518	403	1,670	812	311	227	266
27	319	267	150	190	240	484	383	1,580	752	271	219	288
28	330	270	160	200	500	426	364	1,440	710	244	209	332
29	270	260	170	210	1,500	401	375	1,430	622	244	208	338
30	259	250	180	210	-----	386	434	1,430	532	230	196	326
31	300	-----	190	210	-----	409	-----	1,470	-----	217	197	-----
TOTAL	9,607	8,720	6,550	6,500	8,110	26,502	11,450	32,489	40,378	12,195	7,721	8,071
MEAN	310	291	211	210	280	855	382	1,048	1,346	393	249	269
MAX	483	340	250	240	1,500	1,400	434	2,360	2,160	674	444	338
MIN	234	250	150	180	200	386	345	430	532	217	193	209
AC-FT	19,060	17,300	12,990	12,890	16,090	52,570	22,710	64,440	80,090	24,190	15,310	16,010
CAL YR 1971	TOTAL 198,100		MEAN 543		MAX 2,890		MIN 82		AC-FT 392,900			
WTR YR 1972	TOTAL 178,293		MEAN 487		MAX 2,360		MIN 150		AC-FT 353,600			

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. HT.	DISCHARGE
5-22	1315	6.38	2,590
6-10	1645	6.22	2,400

NOTE.--Stage-discharge relation affected by ice Nov. 28 to Mar. 12.

YELLOWSTONE RIVER BASIN

81

06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WYO.

LOCATION.--Lat 43°34'40", long 107°08'16", in SE¼SW¼NE¼ sec.26, T.42 N., R.86 W., Washakie County, on left bank 1,100 ft downstream from Rock Creek and 13 miles southwest of Barnum.

DRAINAGE AREA.--46 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,220 ft (from topographic map). Prior to Oct. 1, 1970, at site 900 ft upstream at different datum.

AVERAGE DISCHARGE.--11 years, 34.0 cfs (24,630 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 790 cfs about May 17 (gage height, 4.5 ft, from floodmarks); minimum daily, 4.9 cfs Jan. 18-22, 30, 31.

Period of record: Maximum discharge, 7,110 cfs June 15, 1963 (gage height, 12.6 ft, from floodmark, site and datum then in use), on basis of slope-area measurement of peak flow; minimum daily, 1.0 cfs Dec. 15, 16, 1964, Jan. 24-27, 1966.

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

REVISIONS (WATER YEARS).--WRD Wyo. 1971: 1964(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	5.5	5.5	7.5	5.0	6.9	22	55	147	19	9.0	6.9
2	7.9	5.5	6.0	7.0	5.0	6.5	24	60	166	19	10	6.9
3	9.0	5.5	6.0	6.5	5.0	6.5	20	55	150	19	12	6.9
4	9.4	5.5	6.0	6.0	5.0	7.0	22	50	158	18	9.4	7.2
5	11	5.5	6.0	5.5	5.5	7.5	25	55	142	17	8.6	6.9
6	11	5.0	6.0	5.2	5.5	8.0	24	55	119	16	7.9	7.2
7	10	5.0	6.0	5.2	5.5	8.5	24	60	109	16	7.9	6.9
8	9.4	5.5	5.5	5.2	6.0	9.0	22	60	99	14	7.6	6.6
9	8.6	5.5	5.5	5.2	6.0	9.5	24	65	86	14	7.2	6.3
10	7.9	6.0	5.0	5.2	6.0	10	24	70	81	13	7.2	6.0
11	7.9	6.0	5.0	5.2	6.5	13	33	70	67	13	7.2	6.0
12	7.6	6.0	5.0	5.2	6.5	13	39	65	61	13	6.9	6.0
13	7.6	6.5	5.0	5.2	6.5	14	35	70	54	13	6.9	6.0
14	7.6	6.5	5.0	5.2	6.5	13	29	100	48	12	6.9	5.7
15	7.6	6.0	5.5	5.2	6.0	11	30	180	45	12	6.9	5.5
16	7.6	6.0	6.0	5.2	6.5	14	38	320	41	12	7.6	5.5
17	7.6	6.0	6.6	5.2	6.5	18	38	560	41	13	7.6	5.5
18	6.6	5.5	6.9	4.9	7.0	20	32	480	39	13	9.5	6.0
19	5.5	5.5	7.2	4.9	7.0	20	30	460	45	12	9.0	6.0
20	5.5	5.5	7.2	4.9	7.0	17	28	420	43	12	7.9	6.0
21	5.5	6.0	6.9	4.9	7.5	16	30	370	35	11	7.2	6.0
22	5.5	6.0	7.2	4.9	7.5	18	28	360	32	10	6.9	6.0
23	5.5	6.0	7.6	5.2	7.5	20	25	240	29	9.7	15	6.0
24	5.5	6.0	8.3	5.5	7.5	22	28	243	28	9.4	18	6.0
25	5.5	6.0	8.3	5.5	7.0	22	35	245	26	9.4	9.7	6.0
26	5.5	6.0	8.3	5.5	7.5	19	32	211	25	10	7.9	6.0
27	5.5	6.0	8.0	5.5	7.5	16	31	193	23	9.0	7.6	6.0
28	5.0	6.0	8.0	5.5	8.0	16	35	176	21	9.0	6.9	6.0
29	5.0	5.5	7.6	5.5	7.9	18	50	156	19	8.6	6.6	5.6
30	5.0	5.5	7.6	4.9	-----	20	53	152	19	8.6	6.6	5.6
31	5.0	-----	7.5	4.9	-----	20	-----	153	-----	9.0	6.6	-----
TOTAL	222.1	173.0	202.7	167.4	188.4	439.4	910	5,809	1,998	393.7	262.2	187.2
MEAN	7.16	5.77	6.52	5.40	6.50	14.2	30.3	187	66.6	12.7	8.46	6.24
MAX	11	6.5	8.3	7.5	8.0	22	53	560	166	19	18	7.2
MIN	5.0	5.0	5.0	4.9	5.0	6.5	20	50	19	8.6	6.6	5.5
AC-FT	441	343	401	332	374	872	1,800	11,520	3,960	781	520	371

CAL YR 1971 TOTAL 11,351.7 MEAN 31.1 MAX 348 MIN 5.0 AC-FT 22,520
WTR YR 1972 TOTAL 10,952.6 MEAN 29.9 MAX 560 MIN 4.9 AC-FT 21,720

PEAK DISCHARGE (BASE, 200 CFS)

DATE TIME G.H.T. DISCHARGE

a5-17 Unknown 4.5 790
6- 2 0130 2.65 222
6- 4 2230 2.74 239

a About.

NOTE.--No gage-height record Oct. 28 to Dec. 16, May 1-23.

YELLOWSTONE RIVER BASIN

06311000 NORTH FORK POWDER RIVER NEAR HAZELTON, WYO.

LOCATION.--Lat 44°01'43", long 107°04'55", in NW¼SE¼NW¼ sec.21, T.47 N., R.85 W., Johnson County, on right bank 0.5 mile downstream from Twin Creek, 0.7 mile upstream from Dullknife Reservoir, 7.2 miles southwest of Hazelton, and 19 miles northwest of Mayoworth.

DRAINAGE AREA.--24.5 sq mi.

PERIOD OF RECORD.--September 1946 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft (from topographic map). Prior to Oct. 1, 1966, at site 0.8 mile downstream at different datum.

AVERAGE DISCHARGE.--26 years, 14.4 cfs (10,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, not determined, about June 2; minimum daily, 2.0 cfs Jan. 26, 27. Period of record: Maximum discharge, 886 cfs June 15, 1953 (gage height, 4.34 ft, site and datum then in use), from rating curve extended above 110 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.60 cfs Oct. 30, 1960, Apr. 9, 12, 15-17, 1961, but may have been less during winter months of water years 1947-48.

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

REVISIONS (WATER YEARS).--WSP 1279: 1947-48(M), 1949, 1950-51(M), 1952.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	2.5	3.2	3.4	2.4	2.3	2.4	4.5	110	21	10	9.7
2	4.7	2.7	3.2	3.4	2.2	2.3	2.5	4.7	150	24	15	7.2
3	4.8	2.9	3.2	3.0	2.3	2.3	2.5	4.9	140	30	19	7.4
4	5.0	3.1	3.2	3.1	2.3	2.3	2.6	5.2	130	27	9.9	6.4
5	5.4	2.1	3.2	3.3	2.3	2.4	2.7	5.0	130	22	7.7	5.6
6	5.1	2.9	3.2	3.5	2.5	2.5	2.8	5.2	130	19	6.7	7.2
7	4.2	3.0	3.0	3.5	2.6	2.4	3.0	5.5	135	19	6.4	7.7
8	3.6	2.1	2.8	3.5	2.7	2.3	3.1	6.0	140	16	6.4	6.4
9	3.3	3.2	3.0	3.5	2.6	2.5	3.2	6.4	125	15	6.4	5.6
10	3.1	3.4	3.3	3.2	2.5	2.7	3.4	6.0	115	14	5.9	5.4
11	3.1	3.6	3.1	3.3	2.6	2.7	3.6	6.0	85	13	5.9	5.4
12	3.1	3.9	2.9	3.0	2.7	2.6	3.5	5.8	75	12	5.4	5.1
13	2.9	3.8	2.9	2.8	2.8	2.6	3.4	6.4	66	11	5.1	4.9
14	2.8	3.7	2.9	2.6	2.7	2.5	3.5	7.0	60	11	5.1	4.6
15	2.7	3.6	2.9	2.7	2.5	2.6	3.8	10	54	11	4.9	4.6
16	2.6	3.5	2.9	2.8	2.6	2.7	3.7	15	53	11	4.6	4.6
17	2.5	3.2	3.1	3.0	2.6	2.9	3.6	16	47	14	4.6	4.6
18	2.5	2.9	3.2	2.9	2.6	3.0	3.4	20	46	14	5.1	4.6
19	2.7	3.2	3.3	2.7	2.6	2.9	3.5	30	66	11	6.4	4.9
20	2.9	3.4	3.3	2.5	2.6	2.9	3.7	40	57	11	6.1	4.6
21	3.1	3.6	3.3	2.6	2.6	2.8	3.9	50	44	14	5.1	4.6
22	3.2	3.8	3.5	2.7	2.6	2.7	4.2	52	37	12	4.9	4.6
23	3.3	3.7	3.5	2.6	2.5	2.7	4.5	45	33	9.9	14	4.9
24	3.5	3.6	3.5	2.4	2.3	2.6	4.8	40	32	9.0	21	4.9
25	3.6	3.5	3.5	2.2	2.4	2.6	4.7	40	40	8.7	9.0	4.9
26	3.5	3.5	3.1	2.0	2.5	2.5	4.6	40	34	8.3	8.7	4.9
27	3.3	3.5	3.2	2.0	2.5	2.4	4.6	36	28	8.0	6.9	5.1
28	3.0	3.4	3.5	2.1	2.5	2.2	4.7	32	25	8.0	6.1	5.1
29	2.8	3.2	3.5	2.3	2.4	2.3	4.6	40	23	7.4	5.9	5.1
30	2.6	3.2	3.5	2.6	-----	2.4	4.5	60	22	7.2	6.1	4.9
31	2.5	-----	3.5	2.6	-----	2.4	-----	80	-----	9.0	6.4	-----
TOTAL	106.0	99.7	99.5	87.8	73.0	79.0	109.0	724.6	2,232	427.5	240.7	164.5
MEAN	3.42	3.32	3.21	2.83	2.52	2.55	3.63	23.4	74.4	13.8	7.76	5.48
MAX	5.4	3.9	3.5	3.5	2.8	3.0	4.8	80	150	30	21	8.7
MIN	2.5	2.5	2.8	2.0	2.2	2.2	2.4	4.5	22	7.2	4.6	4.6
AC-FT	210	198	197	174	145	157	216	1,440	4,430	848	477	326
CAL YR 1971	TOTAL 5,921.9											
WTR YR 1972	TOTAL 4,443.3											
	MEAN 16.2											
	MAX 292											
	MIN 1.0											
	AC-FT 11,750											
	WTR YR 1972											
	TOTAL 4,443.3											
	MEAN 12.1											
	MAX 150											
	MIN 2.0											
	AC-FT 8,810											

PEAK DISCHARGE (BASE, 190 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 2 to Apr. 26, Apr. 30 to June 15.

83

LOCATION.--Lat 43°53'50", long 106°52'40", in NE¼SW¼ sec.6, T.45 N., R.83 W., Johnson County, on right bank 2 miles downstream from Pass Creek, 6 miles northwest of Mayoworth, and 14 miles downstream from Dullknife Reservoir.

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for some periods, published in WSP 1309.

AVERAGE DISCHARGE.--32 years, 32.8 cfs (23,760 acre-ft per year).

REMARKS.--Records fair. Some regulation for irrigation by Dullknife Reservoir 14 miles upstream (capacity, 4,350 acre-ft) since spring of 1967. Diversions above station for irrigation of about 180 acres, of which about 160 acres lies below station.

REVISIONS.--WSP 1209: Drainage area.

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	25	22	22	23	24	23	26	203	39	36	27
2	21	25	23	22	23	24	23	25	210	38	39	29
3	21	25	23	20	23	25	23	26	153	40	40	29
4	22	25	24	21	23	24	22	30	91	42	39	26
5	22	25	24	23	23	24	22	35	84	42	39	26
6	22	24	24	23	24	24	22	30	84	39	39	26
7	21	25	23	22	24	24	22	27	80	37	40	25
8	21	25	23	21	24	24	22	26	79	36	40	25
9	21	25	23	20	23	24	22	27	127	35	39	24
10	21	25	23	20	22	24	22	31	106	33	37	24
11	22	25	23	20	22	24	22	30	104	32	37	24
12	22	25	23	20	22	24	23	28	95	31	33	23
13	22	25	23	22	22	24	23	26	86	29	33	23
14	23	25	23	22	22	24	23	33	74	29	35	23
15	25	25	23	22	22	24	23	79	66	28	35	23
16	25	25	23	21	22	24	23	98	68	27	34	23
17	25	26	22	20	22	24	23	95	68	28	34	23
18	26	25	22	20	22	25	23	94	66	27	34	23
19	25	25	22	20	22	25	23	96	68	25	35	23
20	25	25	22	20	23	25	22	90	75	27	24	23
21	25	25	22	20	23	24	22	95	64	27	34	23
22	25	25	22	20	23	23	22	95	57	27	34	23
23	25	25	22	20	23	24	22	173	52	25	37	23
24	25	25	22	20	23	24	22	159	51	25	39	23
25	25	25	22	20	23	24	23	266	52	25	33	23
26	25	25	22	20	23	24	23	330	51	23	33	23
27	25	25	22	21	24	23	22	271	49	23	30	23
28	24	25	21	22	25	23	23	219	45	25	30	23
29	24	24	22	22	25	23	25	214	42	34	29	23
30	25	24	20	22	-----	23	29	210	41	36	28	23
31	25	-----	20	22	-----	23	-----	207	-----	36	28	-----
TOTAL	726	748	655	650	665	742	684	3,191	2,491	970	1,087	720
MEAN	23.4	24.9	22.4	21.0	22.9	23.9	22.8	103	83.0	31.3	35.1	24.0
MAX	26	26	24	23	25	25	29	330	210	42	40	29
MIN	21	24	20	20	22	23	22	25	41	23	28	23
AC-FT	1,440	1,480	1,380	1,290	1,320	1,470	1,360	6,330	4,940	1,920	2,160	1,430
WTR YR 1971	TOTAL 13,989		MEAN 38.3	MAX 750	MIN 15	AC-FT 27,750						
CAL YR 1972	TOTAL 13,369		MEAN 36.5	MAX 330	MIN 20	AC-FT 26,520						

YELLOWSTONE RIVER BASIN

06313700 DEAD HORSE CREEK NEAR BUFFALO, WYO.

LOCATION.--Lat 44°12'50", long 106°06'20", in SW¼SE¼ sec.15, T.49 N., R.77 W., Johnson County, on left bank 0.5 mile upstream from bridge on private road, 1.7 miles upstream from bridge on Interstate Highway 90, and 31 miles east of Buffalo.

DRAINAGE AREA.--155 sq mi, approximately.

PERIOD OF RECORD.--Annual maximum, water years 1958-71. October 1971 to September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 3,950 ft (from river-profile map). Oct. 1, 1958 to Sept. 30, 1971, crest-stage gage at site 0.5 mile downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,070 cfs Feb. 28 (gage height, 8.10 ft, from floodmarks), from rating curve extended above 300 cfs on basis of peak discharge determined at crest-stage gage site; no flow for many days.

Period of record: Maximum discharge, 2,300 cfs May 26, 1962 (gage height, 11.6 ft, site and datum then in use); no flow for many days.

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.12		0	34	0	0	.02	.01	.01	
2		0	.12		0	6.3	0	0	.02	.02	2.6	
3		0	.10		0	.99	0	0	.02	.02	.63	
4		0	.08		0	.20	0	0	.02	.02	2.6	
5		0	.07		0	0	0	0	.01	.02	5.3	
6		0	.08		0	0	.01	0	.01	.02	.C7	
7		0	.04		0	6.6	.01	.01	.01	.02	0	
8		0	.01		0	.17	.01	.01	.01	.02	0	
9		0	0		0	0	.01	.01	0	.01	C	
10		0	0		0	0	.01	.06	.01	.01	0	
11		0	0		0	0	.01	.06	0	.01	C	
12		0	0		0	0	0	.06	0	0	0	
13		0	0		0	0	0	.06	0	0	C	
14		0	0		0	0	0	.06	0	.01	0	
15		0	0		0	0	0	.06	2.7	.01	C	
16		0	0		0	0	0	.06	2.2	.01	0	
17		0	0		0	0	0	.06	.08	.01	C	
18		0	0		0	4.0	.02	.06	41	.01	3.4	
19		0	0		0	1.0	.01	.04	.06	0	3.3	
20		0	0		93	0	0	.04	60	.01	.C4	
21		0	0		159	0	0	.04	.12	.01	0	
22		0	0		199	0	.02	.04	0	.70	0	
23		0	0		155	0	.01	.04	0	0	0	
24		.02	0		78	0	0	.03	0	0	C	
25		.03	0		54	0	.01	.03	0	.02	0	
26		.04	0		45	0	.01	.02	.01	.01	C	
27		.06	0		152	0	.02	.02	.01	.01	0	
28		.08	0		530	0	0	.02	.01	.01	0	
29		.10	0		227	0	0	.02	.01	.01	0	
30		.12	0		-----	0	0	.02	.01	0	0	
31		-----	0		-----	0	-----	.02	-----	0	0	-----
TOTAL	0	.45	.62	0	1,692	53.26	.16	.95	106.34	1.01	17.95	0
MEAN	0	.015	.020	0	58.3	1.72	.005	.031	3.54	.033	.58	0
MAX	0	.12	.12	0	530	34	.02	.06	60	.70	5.3	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	.9	1.2	0	3,360	106	.3	1.9	211	2.0	36	0
WTR YR 1972	TOTAL 1,872.74	MEAN 5.12	MAX 530	MIN 0	AC-FT 3,710							

PEAK DISCHARGE (BASE, 300 CFS)

NOTE.--No gage-height record Dec. 10 to Feb. 28, Apr. 12 to May 15.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
2-21	--	--	a420	2-28	--	b8.10	1,070
2-22	--	--	a540	2-29	0100	6.86	763

a About.

b From floodmark.

YELLOWSTONE RIVER BASIN

85

06314500 NORTH FORK CRAZY WOMAN CREEK BELOW SPRING DRAW, NEAR BUFFALO, WYO.

LOCATION.--Lat 44°11'38", long 106°46'47", in NW¼NW¼NW¼ sec.30, T.49 N., R.82 W., Johnson County, on right bank 1.1 miles downstream from Spring Draw and 11 miles southwest of Buffalo.

DRAINAGE AREA.--51.7 sq mi.

PERIOD OF RECORD.--October 1949 to October 1971, March to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,360 ft (from topographic map).

AVERAGE DISCHARGE.--22 years (1949-71), 18.5 cfs (13,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 276 cfs May 21 (gage height, 4.76 ft); minimum daily during period of operation, 4.0 cfs Mar. 8.

Period of record: Maximum discharge, 1,290 cfs June 9, 1968 (gage height, 6.03 ft); minimum daily, 1.0 cfs Nov. 27, 1952, Dec. 28, 1966, Jan. 6-9, 1967.

REMARKS.--Records fair. Diversions for irrigation of about 50 acres above station. Several diversions above station for irrigation of land below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3					6.0	8.0	17	145	45	27	25
2	9.7					6.0	8.0	14	159	52	31	21
3	8.1					6.0	8.0	15	204	60	56	19
4	11					6.0	8.0	20	193	53	30	17
5	11					6.0	9.0	29	162	52	23	15
6	10					7.0	12	21	138	46	20	15
7	9.2					6.0	13	16	172	51	19	18
8	8.6					4.0	13	18	157	40	19	16
9	8.3					4.6	12	22	164	37	19	14
10	8.1					5.8	13	28	164	34	18	13
11	7.8					7.5	13	25	127	33	17	14
12	7.8					8.1	16	22	122	31	16	14
13	7.5					7.8	12	23	114	30	15	14
14	7.8					8.6	10	32	99	30	15	13
15	9.2					8.6	10	52	92	30	15	13
16	8.9					8.9	13	71	89	28	14	12
17	11					9.5	17	85	99	40	14	12
18	15					12	12	105	96	38	14	11
19	11					16	10	112	107	30	16	12
20	11					17	10	105	107	30	17	12
21	11					13	9.5	215	82	37	14	12
22	9.0					12	12	152	73	34	18	11
23	9.2					16	8.9	120	65	25	28	12
24	11					17	8.1	114	64	23	41	12
25	11					12	14	138	71	22	20	13
26	10					11	13	129	64	22	19	12
27	9.7					9.5	10	110	52	22	16	13
28	7.1					8.9	15	114	48	22	14	13
29	7.5					8.9	22	108	47	20	14	13
30	11				-----	7.8	28	112	47	19	16	13
31	11	-----			-----	8.0	-----	127	-----	21	19	-----
TOTAL	296.8					285.5	367.5	2,271	3,323	1,057	634	424
MEAN	9.57					9.21	12.3	73.3	111	34.1	20.5	14.1
MAX	15					17	28	215	204	60	56	25
MIN	7.1					4.0	8.0	14	47	19	14	11
AC-FT	589					566	729	4,500	6,590	2,100	1,260	841

PEAK DISCHARGE (BASE, 160 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-21	0230	4.76	276
6- 3	0530	4.67	237

YELLOWSTONE RIVER BASIN

06315500 MIDDLE FORK CRAZY WOMAN CREEK NEAR GREUB, WYO.

LOCATION.--Lat 44°03'29", long 106°48'07", in W½ sec.11, T.47 N., R.83 W., Johnson County, on left bank 0.3 mile downstream from Poison Creek, 2.4 miles west of Greub, and 21 miles southwest of Buffalo.

DRAINAGE AREA.--82.7 sq mi.

PERIOD OF RECORD.--April 1942 to October 1971, March to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft (from topographic map). Prior to Sept. 23, 1943, nonrecording gage at site 430 ft downstream at about the same datum. Water-stage recorder Sept. 23, 1943, to June 6, 1952, at site 30 ft downstream at datum 0.67 ft lower.

AVERAGE DISCHARGE.--29 years (1942-71), 22.3 cfs (16,160 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 275 cfs June 9 (gage height, 2.51 ft); minimum daily during period of operation, 7.7 cfs Oct. 28.

Period of record: Maximum discharge, 1,590 cfs May 2, 1947 (gage height, 5.64 ft, site and datum then in use), from rating curve extended above 110 cfs on basis of slope-area measurement of peak flow at 5.40 ft (flood of June 9, 1968); minimum daily, 1.7 cfs Aug. 31, 1966.

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

REVISIONS (WATER YEARS).--WRD Wyo. 1970: 1947, 1948-50(P), 1951(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11					8.0	13	42	132	31	22	22
2	14					8.0	13	33	160	35	21	20
3	11					8.0	13	36	197	45	40	20
4	14					8.0	13	41	189	43	25	16
5	13					8.5	17	51	184	38	18	14
6	12					11	42	39	144	34	15	13
7	11					9.0	38	35	140	36	14	15
8	10					8.0	36	37	130	30	14	13
9	10					11	32	44	168	27	15	12
10	9.4					16	35	53	164	25	14	11
11	9.2					18	32	50	167	24	15	12
12	9.0					18	41	47	92	23	13	12
13	8.7					19	32	44	80	22	12	11
14	9.3					20	23	49	72	21	12	11
15	12					19	25	66	68	23	13	10
16	12					21	31	85	67	22	12	9.6
17	16					29	36	91	65	26	11	9.2
18	23					43	25	112	67	28	12	9.0
19	15					44	21	127	80	22	15	9.8
20	14					36	20	115	85	23	15	10
21	15					30	22	166	64	31	13	9.5
22	13					31	28	142	57	29	13	9.6
23	13					40	22	126	48	21	22	10
24	14					30	25	125	46	18	51	11
25	14					26	38	134	48	17	22	12
26	14					22	34	147	46	17	16	12
27	13					15	28	123	41	16	14	12
28	7.7					13	32	121	39	16	13	12
29	11					13	46	118	36	15	12	12
30	13				-----	14	59	117	33	14	13	12
31	13	-----			-----	14	-----	123	-----	16	21	-----
TOTAL	384.3					610.5	872	2,639	2,849	788	538	371.7
MEAN	12.4					19.7	29.1	85.1	95.0	25.4	17.4	12.4
MAX	23					44	59	166	197	45	51	22
MIN	7.7					8.0	13	33	33	14	11	9.0
AC-FT	762					1,210	1,730	5,230	5,650	1,560	1,070	737

PEAK DISCHARGE (BASE, 140 CFS)

DATE	TIME	G.H.T.	DISCHARGE
5-21	0530	2.22	188
6- 3	1030	2.34	223
6- 9	2000	2.51	275

YELLOWSTONE RIVER BASIN

87

06317000 POWDER RIVER AT ARVADA, WYO.

LOCATION.--Lat 44°38'45", long 106°08'00", in NE¼ sec.21, T.54 N., R.77 W., Sheridan County, on left bank 0.5 mile upstream from bridge on county road, 0.5 mile southwest of Arvada, and 0.8 mile upstream from Wild Horse Creek.

DRAINAGE AREA.--6,050 sq mi, approximately.

PERIOD OF RECORD.--May 1919 to current year (no winter records in water years 1919-30, 1934). Records for Feb. 16-23, 1930, published in WSP 701 are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 3,622.01 ft above mean sea level. Prior to Oct. 24, 1938, non-recording gage at bridge 0.5 mile downstream at datum 0.14 ft lower.

AVERAGE DISCHARGE.--41 years (1930-33, 1934-72), 272 cfs (197,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,290 cfs Aug. 25 (gage height, 6.48 ft); maximum gage height, 7.32 ft Feb. 22 (backwater from ice); minimum daily discharge, 12 cfs Aug. 17.

Period of record: Maximum discharge, about 100,000 cfs Sept. 29, 1923 (gage height, 23.7 ft, from flood-marks, site and datum then in use), from rating curve extended above 20,000 cfs; no flow at times most years.

REMARKS.--Records poor. Numerous small reservoirs and diversions for irrigation of about 29,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1509: 1921(M), 1923(M), 1924-26, 1927-28(M), 1929, 1930(M), 1931, 1932(M), 1933, 1934(M), 1935-36. See PERIOD OF RECORD.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	120	150	96	76	2,500	360	320	720	130	48	85
2	103	112	121	96	76	1,900	340	440	650	124	48	71
3	100	106	118	90	76	1,360	300	450	578	142	40	71
4	90	150	100	84	76	647	330	445	614	112	39	145
5	100	166	100	86	76	605	281	365	848	103	193	265
6	103	134	100	86	78	905	299	405	1,450	142	166	275
7	103	90	99	86	80	1,250	264	415	1,580	130	118	154
8	106	170	98	84	82	1,060	253	490	830	127	82	115
9	103	180	105	84	80	1,070	275	530	578	134	67	103
10	85	180	105	84	74	690	299	535	544	154	54	103
11	78	210	100	82	80	578	305	565	412	150	42	95
12	82	175	96	80	84	520	281	540	412	130	29	103
13	95	180	96	78	88	458	281	500	320	118	23	109
14	103	166	96	76	84	435	335	500	242	106	19	103
15	109	190	96	96	84	399	335	520	205	95	16	106
16	98	175	96	92	90	340	363	544	324	88	14	106
17	134	170	96	88	88	300	370	623	210	78	12	90
18	170	134	100	84	86	280	340	800	1,650	65	14	82
19	160	100	105	84	90	285	363	1,080	800	57	539	75
20	150	103	105	82	96	255	301	1,290	1,970	55	179	71
21	150	127	105	86	100	290	412	1,360	1,570	55	175	63
22	140	138	105	86	300	300	412	1,260	720	82	124	59
23	150	175	105	86	1,000	330	528	1,580	363	92	95	59
24	140	170	105	80	2,200	315	528	1,410	349	158	73	57
25	125	170	98	74	2,100	300	450	1,290	317	121	1,670	59
26	120	170	80	64	1,900	350	356	1,190	231	78	1,030	63
27	120	142	92	66	1,300	340	293	1,200	185	65	349	69
28	130	130	96	76	2,400	340	356	1,290	150	57	190	71
29	120	158	96	82	3,500	340	384	1,210	142	50	138	75
30	110	158	94	78	-----	340	320	1,000	170	43	124	85
31	120	-----	96	78	-----	340	-----	810	-----	40	103	-----
TOTAL	2,572	4,540	3,153	2,574	16,444	19,421	10,413	24,947	19,143	3,081	5,822	2,387
MEAN	115	152	102	83.0	567	626	347	805	638	99.4	188	99.6
MAX	170	210	150	96	3,500	2,500	528	1,580	1,970	158	1,670	275
MIN	75	90	80	64	74	255	253	320	142	40	12	57
AC-FT	7,090	9,070	6,250	5,110	32,620	38,520	20,650	49,480	37,970	6,110	11,550	5,920

CAL YR 1971 TOTAL 103,275.53 MEAN 283 MAX 4,220 MIN 0 AC-FT 204,800
WTR YR 1972 TOTAL 116,106.00 MEAN 317 MAX 3,500 MIN 12 AC-FT 230,300

PEAK DISCHARGE (BASE, 3,800 CFS)

DATE	TIME	G.HT.	DISCHARGE
8-25	1430	6.48	4,290

YELLOWSTONE RIVER BASIN

06318500 CLEAR CREEK NEAR BUFFALO, WYO.

LOCATION (revised).--Lat 44°19'58", long 106°46'36", in SE¼SW¼NW¼ sec.6, T.50 N., R.82 W., Johnson County, on left bank 500 ft upstream from abandoned Pacific Power & Light Company powerplant, 2.0 miles downstream from Mosier Gulch, and 4.0 miles west of Buffalo.

DRAINAGE AREA.--120 sq mi, approximately.

PERIOD OF RECORD.--April to September 1894, May to September 1896, May 1897 to December 1899, June 1917 to October 1927, April 1938 to current year. Published as "at Buffalo" 1897-98. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 5,184.83 ft above mean sea level. See WSP 1916 for history of changes prior to 1961.

AVERAGE DISCHARGE.--46 years (1897-99, 1917-27, 1938-72), 62.7 cfs (45,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 815 cfs June 3 (gage height, 4.20 ft); minimum daily, 9.5 cfs Jan. 26.

Period of record: Maximum discharge, 3,420 cfs June 15, 1963 (gage height, 6.19 ft), from rating curve extended above 900 cfs on basis of velocity-area study; no flow Feb. 14-16, 1939, Nov. 12, 13, 1940.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions above station for irrigation of about 330 acres, of which about 320 acres lies below station.

REVISIONS (WATER YEARS).--WSP 1309: 1896, 1898, 1938, 1939(M), 1945(M). WSP 1729: 1921.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	27	15	19	11	10	23	39	430	161	77	106
2	30	25	18	19	12	11	22	35	520	179	109	93
3	28	25	22	18	12	12	21	36	668	174	189	79
4	30	26	19	17	12	11	22	41	555	154	144	72
5	31	26	18	17	12	12	22	55	484	147	110	66
6	30	21	17	18	12	15	26	44	383	150	93	64
7	28	20	17	17	13	18	26	44	474	161	84	69
8	26	22	15	17	13	15	27	45	515	149	78	65
9	25	22	16	17	12	15	28	49	484	147	76	60
10	24	22	17	16	11	22	29	55	525	137	70	58
11	24	22	17	16	11	33	36	52	399	134	67	57
12	24	22	17	14	11	28	38	52	391	130	63	55
13	23	22	17	13	12	24	34	56	324	131	61	53
14	24	22	17	13	11	28	27	66	248	131	60	52
15	26	20	17	13	11	22	27	80	230	116	59	49
16	26	20	17	14	11	24	30	100	225	99	57	47
17	30	19	18	13	10	28	36	200	235	101	58	45
18	37	17	19	13	11	30	29	350	240	102	62	43
19	31	18	19	13	11	33	26	330	253	92	74	41
20	31	21	19	13	11	30	24	350	240	90	66	40
21	30	20	19	14	11	25	25	460	198	102	60	39
22	27	20	20	14	11	25	29	430	183	96	83	39
23	26	21	20	14	11	33	24	410	181	85	93	38
24	27	23	20	13	10	30	26	400	189	78	183	38
25	27	19	20	12	10	27	37	420	206	73	134	39
26	26	22	17	9.5	10	27	34	400	204	70	106	39
27	24	20	18	11	10	19	30	380	164	70	87	38
28	18	19	19	12	10	20	35	370	149	82	76	38
29	17	17	19	13	11	22	45	370	147	70	69	38
30	27	16	18	12	-----	23	56	380	156	65	73	37
31	27	-----	19	12	-----	23	-----	390	-----	68	102	-----
TOTAL	830	636	560	446.5	324	695	894	6,489	9,600	3,544	2,723	1,597
MEAN	26.8	21.2	18.1	14.4	11.2	22.4	29.8	209	320	114	87.8	53.2
MAX	37	27	22	19	13	33	56	460	668	179	189	106
MIN	17	16	15	9.5	10	10	21	35	147	65	57	37
AC-FT	1,650	1,260	1,110	886	643	1,380	1,770	12,870	19,040	7,030	5,400	3,170

CAL YR 1971 TOTAL 27,863.9 MEAN 76.3 MAX 1,020 MIN 3.3 AC-FT 55,270
WTR YR 1972 TOTAL 28,338.5 MEAN 77.4 MAX 668 MIN 9.5 AC-FT 56,210

PEAK DISCHARGE (BASE, 380 CFS)

NOTE.--No gage-height record Dec. 13 to Mar. 3, May 10 to June 2.

DATE	TIME	G.HT.	DISCHARGE
6-3	0545	4.20	815
6-10	0400	3.94	644

YELLOWSTONE RIVER BASIN

89

06320000 ROCK CREEK NEAR BUFFALO, WYO.

LOCATION.--Lat 44°27'22", long 106°52'42", in NW¼NW¼NW¼ sec.29, T.52 N., R.83 W., Johnson County, on left bank 300 ft downstream from confluence of North and South Forks and 11.5 miles northwest of Buffalo.

DRAINAGE AREA.--60.0 sq mi.

PERIOD OF RECORD.--April to August 1941, April to December 1942, May 1943 to November 1944, April 1945 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 5,280 ft (from topographic map). Prior to Jan. 8, 1944, non-recording gages 600 ft upstream on North and South Forks at different datum. Jan. 8, 1944, to Sept. 30, 1952, water-stage recorder at present site at datum 0.72 ft lower.

AVERAGE DISCHARGE.--27 years (1943-44, 1945-71), 36.4 cfs (26,370 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 342 cfs June 9 (gage height, 5.64 ft); minimum daily during period of operation, 8.1 cfs Oct. 13.

Period of record: Maximum discharge, 1,860 cfs June 15, 1963 (gage height, 7.98 ft), from rating curve extended above 450 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.5 cfs Sept. 19, 1954.

Maximum stage known, about 8.05 ft, probably during 1944.

REMARKS.--Records good. Water is imported into drainage basin above station from South Piney Creek. Diversions for irrigation of about 250 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28						10	24	178	50	50	56
2	29						10	20	192	63	65	53
3	26						10	24	260	55	94	52
4	29						10	26	220	54	58	49
5	32						10	34	184	57	50	45
6	34						11	28	170	64	45	46
7	29						12	28	176	61	46	50
8	13						13	26	170	54	46	44
9	9.9						14	31	187	53	50	39
10	9.6						15	31	180	50	49	38
11	9.6						16	30	137	50	50	38
12	8.8						17	31	128	47	48	37
13	8.1						17	32	112	47	46	37
14	8.3						14	43	94	46	50	36
15	8.8						14	57	87	43	50	32
16	8.3						16	71	87	40	46	30
17	9.1						21	89	87	44	45	29
18	14						17	117	84	43	43	29
19	10						15	117	94	39	64	26
20	10						15	113	89	39	50	26
21	10						16	192	83	52	45	25
22	9.4						17	164	79	41	53	25
23	8.6						15	131	74	36	53	25
24	9.6						17	122	67	34	85	25
25	9.4						23	149	72	34	71	26
26	9.4						22	149	62	34	60	25
27	8.6						20	131	53	37	54	26
28	8.6						23	130	50	47	52	25
29	8.6						29	138	52	45	50	17
30	8.8						31	144	51	43	47	15
31	8.8	-----			-----		-----	162	-----	46	59	-----
TOTAL	434.3						490	2,584	3,559	1,448	1,674	1,026
MEAN	14.0						16.3	83.4	119	46.7	54.0	34.2
MAX	34						31	192	260	64	94	56
MIN	9.1						10	20	50	34	43	15
AC-FT	861						972	5,130	7,060	2,870	3,320	2,040

YELLOWSTONE RIVER BASIN

06320500 SOUTH PINEY CREEK AT WILLOW PARK, WYO.

LOCATION.--Lat 44°27'59", long 107°02'03", Johnson County, Bighorn National Forest, on left bank about 300 ft downstream from Willow Park Dam, 1.4 miles upstream from Kearny Creek, and 10 miles southwest of Story.

DRAINAGE AREA.--33.6 sq mi.

PERIOD OF RECORD.--September 1945 to September 1957 (no winter records prior to 1948), October 1959 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 8,540 ft (from topographic map). Prior to Oct. 1, 1957, at site about 600 ft upstream at different datum. Oct. 1, 1959, to Sept. 30, 1965, at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--22 years (1947-57, 1959-71), 42.4 cfs (30,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 808 cfs about June 10 (gage height, 4.74 ft); minimum daily during period of operation, 7.9 cfs Sept. 29, 30.

Period of record: Maximum discharge, 1,620 cfs June 15, 1963 (gage height, 5.68 ft, present datum), from rating curve extended above 360 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.30 cfs Nov. 19-21, 1966, but may have been less on individual days of no gage-height record; minimum daily determined prior to construction of Willow Park Reservoir, 4.5 cfs Mar. 1 to Apr. 5, 1955, but may have been less during years of no winter records.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Some regulation by Cloud Peak Reservoir (capacity, 3,385 acre-ft) and Willow Park Reservoir (capacity, 4,457 acre-ft). Storage began in Willow Park Reservoir in April 1959. Cloud Peak Reservoir enlarged December 1958. Water released from storage in Cloud Peak Reservoir is diverted just below station into Rock Creek basin.

REVISIONS (WATER YEARS).--WSP 1309: 1949(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							8.8	8.2	14	114	88	109
2							8.8	8.2	14	149	105	115
3							8.8	8.4	33	151	166	125
4							8.7	8.7	194	129	166	121
5							8.7	8.7	207	115	134	111
6							8.7	8.7	196	115	119	107
7							8.7	9.0	207	118	119	102
8							8.7	9.4	241	111	119	94
9							8.7	9.4	370	107	119	94
10							8.6	9.4	780	105	121	94
11							8.6	9.4	600	103	121	94
12							8.6	9.4	450	102	118	102
13							8.6	9.4	320	102	112	121
14							9.6	9.4	280	103	114	131
15							8.6	9.7	220	100	112	131
16							8.5	9.7	190	91	111	131
17							8.5	10	180	88	98	131
18							8.5	10	190	88	84	130
19							8.5	11	200	83	84	130
20							8.5	11	230	80	84	128
21							8.5	12	190	88	91	123
22							8.4	12	170	88	102	122
23							8.4	12	140	84	112	112
24							8.4	13	140	76	146	111
25							8.4	13	149	70	154	109
26							8.4	12	151	65	154	108
27							8.4	12	126	68	154	107
28							8.2	12	105	82	147	65
29							8.2	13	99	85	134	7.9
30					-----		9.2	13	103	81	116	7.9
31		-----			-----		-----	13	-----	80	116	-----
TOTAL							256.2	324.1	6,489	3,020	3,720	3,178.8
MEAN							8.54	10.5	216	97.4	120	106
MAX							8.8	13	780	151	166	131
MIN							8.2	8.2	14	65	84	7.9
AC-FT							508	643	12,870	5,990	7,380	6,310

NOTE.--No gage-height record June 9-22.

YELLOWSTONE RIVER BASIN

91

06321000 SOUTH PINEY CREEK NEAR STORY, WYO.

LOCATION.--Lat 44°33'26", long 106°56'11", in NW¼NE¼NE¼ sec.23, T.53 N., R.84 W., Johnson County, Bighorn National Forest, on left bank 2.3 miles southwest of Story and 3.3 miles upstream from confluence with North Piney Creek.

DRAINAGE AREA.--69.4 sq mi.

PERIOD OF RECORD.--June 1951 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 5,590 ft (from topographic map). Prior to Oct. 1, 1951, nonrecording gage at site 300 ft upstream at different datum. Oct. 1, 1951, to July 9, 1970, at site 200 ft downstream at datum 10.08 ft lower.

AVERAGE DISCHARGE.--20 years (1951-71), 75.3 cfs (54,550 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 938 cfs June 10 (gage height, 3.99 ft); minimum daily during period of operation, 19 cfs Oct. 29.
Period of record: Maximum discharge, 2,090 cfs June 15, 1963 (gage height, 4.37 ft, site and datum then in use), from rating curve extended above 1,050 cfs; maximum gage height, 5.30 ft June 15, 1963 (backwater from slide, site and datum then in use); minimum daily discharge, 0.40 cfs Nov. 14, 1964.

REMARKS.--Records fair. Some regulation by Cloud Peak Reservoir (capacity, 3,385 acre-ft), Willow Park Reservoir (capacity, 4,457 acre-ft), and Kearny Lake (capacity, 1,860 acre-ft). Diversion above station into Rock Creek basin for irrigation.

REVISIONS.--WSP 1916: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26							26	70	187	130	150
2	27							26	88	270	148	150
3	27							28	204	285	190	150
4	27							28	310	245	211	160
5	27							30	363	194	178	155
6	29							30	438	166	163	150
7	29							31	369	181	155	145
8	29							31	396	178	155	145
9	27							33	445	222	158	140
10	27							33	836	184	152	135
11	26							33	719	172	152	135
12	26							33	560	169	152	135
13	26							35	530	172	152	150
14	25							40	496	187	155	155
15	26							47	389	175	160	180
16	26							58	345	142	163	165
17	26							72	333	155	158	170
18	29							85	339	148	145	170
19	25							83	382	138	140	190
20	26							83	410	128	135	214
21	26							104	295	125	135	214
22	25							96	265	132	145	211
23	25							86	245	125	148	197
24	26							81	261	120	160	169
25	26							83	265	112	166	166
26	25							83	265	100	169	163
27	23							77	253	94	166	163
28	21							74	233	100	163	121
29	19							72	190	112	158	32
30	23				-----			70	178	130	148	32
31	25	-----			-----		-----	70	-----	128	150	-----
TOTAL	799							1,761	10,471	4,976	4,860	4,622
MEAN	25.8							56.8	349	161	157	154
MAX	29							104	836	285	211	214
MIN	19							26	70	94	130	32
AC-FT	1,590							3,490	20,770	9,870	9,640	9,170

YELLOWSTONE RIVER BASIN

06321500 NORTH PINEY CREEK NEAR STORY, WYO.

LOCATION.--Lat 44°34'50", long 106°55'55", in NW¼SW¼ sec.12, T.53 N., R.84 W., Sheridan County, on left bank 2.1 miles west of Story and 3.2 miles upstream from confluence with South Piney Creek.

DRAINAGE AREA.--36.8 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (from topographic map). Prior to Sept. 14, 1951, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--21 years, 37.2 cfs (26,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 367 cfs May 21 (gage height, 2.81 ft); minimum daily, 6.8 cfs Jan. 26.

Period of record: Maximum discharge, 1,820 cfs June 15, 1963 (gage height, 5.04 ft), from rating curve extended above 1,000 cfs; minimum daily, 3.0 cfs Mar. 12, 1956, Jan. 20, 21, 24, 25, Mar. 3, 1966.

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

REVISIONS.--WSP 1916: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	10	10	7.8	8.6	31	60	214	38	22	21
2	12	12	12	10	8.0	9.9	29	60	218	54	25	18
3	14	13	15	9.4	8.0	10	27	61	211	50	41	18
4	15	14	13	8.6	8.0	8.3	27	65	188	47	25	17
5	21	13	12	9.0	8.0	7.4	29	74	167	46	20	16
6	21	13	12	9.2	8.2	10	31	70	153	41	18	17
7	20	15	10	9.0	8.4	12	30	72	153	40	17	20
8	16	13	10	8.8	8.6	11	31	71	155	34	17	17
9	13	12	11	8.8	8.2	9.6	31	75	186	32	19	15
10	14	12	11	8.6	7.8	11	32	77	181	31	25	14
11	14	13	10	8.6	7.8	14	36	74	129	30	18	15
12	12	14	10	8.4	7.8	15	42	74	115	28	17	14
13	11	14	10	8.2	8.0	16	41	79	99	27	16	15
14	12	14	10	8.0	7.8	19	40	99	87	27	18	14
15	11	13	10	10	7.8	19	40	130	83	27	20	13
16	11	13	10	9.6	7.6	22	44	172	76	26	16	13
17	13	12	10	9.2	7.0	28	47	224	72	32	15	12
18	18	12	11	8.8	7.6	30	44	263	68	27	18	12
19	15	15	11	8.8	7.6	36	42	258	96	25	30	12
20	16	14	11	8.6	7.6	36	42	266	86	26	21	12
21	16	13	11	9.0	7.6	34	43	324	78	28	18	12
22	14	13	11	9.0	7.4	36	44	299	65	24	20	12
23	14	10	11	9.0	7.4	40	41	249	58	22	18	12
24	15	14	11	8.4	7.0	40	44	233	54	21	25	13
25	15	12	10	7.6	7.2	39	49	238	55	20	19	14
26	15	12	8.4	6.8	7.6	39	44	213	50	20	17	13
27	12	12	9.6	7.4	8.2	33	45	192	48	20	16	15
28	12	12	10	8.0	8.2	33	49	181	44	20	16	15
29	11	12	10	8.6	8.5	32	59	177	41	18	15	15
30	10	12	9.8	8.2	-----	32	66	181	39	17	18	15
31	12	-----	10	8.2	-----	31	-----	198	-----	20	20	-----
TOTAL	436	385	330.8	269.8	226.7	721.8	1,200	4,809	3,269	918	620	441
MEAN	14.1	12.8	10.7	8.70	7.82	23.3	40.0	155	109	29.6	20.0	14.7
MAX	21	15	15	10	8.6	40	66	324	218	54	41	21
MIN	10	10	8.4	6.8	7.0	7.4	27	60	39	17	15	12
AC-FT	865	764	656	535	450	1,430	2,380	9,540	6,480	1,820	1,230	875
CAL YR 1971	TOTAL 14,366.8	MEAN 39.4	MAX 604	MIN 4.4	AC-FT 28,500							
WTR YR 1972	TOTAL 13,627.1	MEAN 37.2	MAX 324	MIN 6.8	AC-FT 27,030							

PEAK DISCHARGE (BASE, 200 CFS)

NOTE.--No gage-height record Dec. 7 to Feb. 24.

DATE TIME G.HT DISCHARGE

5-21 1930 2.81 367

93

LOCATION.--Lat 44°32'10", long 106°49'20", in sec.26, T.53 N., R.83 W., Johnson County, on right bank 1,000 ft south of Kearny and 0.5 mile upstream from Little Piney Creek.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	50	27	35	23	47	83	106	206	83	12	50
2	18	52	28	34	20	49	82	102	249	170	28	51
3	21	53	29	30	23	47	80	104	416	197	92	54
4	30	50	30	27	26	48	72	110	556	165	95	58
5	46	49	29	30	27	46	77	127	664	123	71	54
6	53	50	31	34	26	52	85	116	742	83	54	52
7	48	52	28	36	30	54	82	123	556	88	47	52
8	39	51	26	38	35	50	80	121	586	80	44	48
9	32	51	28	39	38	48	80	125	772	106	42	42
10	35	51	29	37	32	47	80	129	980	83	43	40
11	35	52	28	36	35	56	82	127	910	75	32	40
12	33	53	27	31	38	58	90	127	616	66	30	41
13	32	53	26	28	37	64	90	132	520	64	26	52
14	36	53	27	27	35	72	86	152	440	71	26	68
15	36	51	28	29	33	74	85	192	320	64	28	86
16	35	51	28	30	37	85	86	249	262	30	20	108
17	35	47	30	32	36	95	93	316	246	39	18	108
18	50.1	44	32	30	35	93	90	388	255	38	12	108
19	42	39	32	29	37	95	86	356	356	36	20	110
20	43	38	33	30	41	97	86	340	388	34	14	110
21	43	37	33	32	39	86	86	480	265	36	12	108
22	38	36	34	27	42	90	90	430	221	30	27	99
23	37	34	34	24	40	99	85	328	197	30	29	97
24	38	31	35	21	39	99	88	293	209	28	51	68
25	37	32	33	17	44	95	95	290	215	25	61	68
26	37	33	31	16	47	95	92	249	197	19	59	65
27	37	32	34	17	52	82	88	212	168	15	59	65
28	38	30	35	18	51	86	90	157	145	11	58	62
29	36	29	36	20	50	82	101	189	116	10	56	13
30	34	29	35	22	-----	85	119	183	90	14	46	8.6
31	35	-----	34	22	-----	82	-----	197	-----	13	47	-----
TOTAL	1,118.0	1,313	950	878	1,048	2,258	2,609	6,590	11,863	1,926	1,259	1,985.6
MEAN	36.1	43.8	30.6	28.3	36.1	72.8	87.0	213	395	62.1	40.6	66.2
MAX	53	53	36	39	52	99	119	480	980	197	95	110
MIN	9.0	29	26	16	20	46	72	102	90	10	12	8.6
AC-FT	2,220	2,600	1,880	1,740	2,080	4,480	5,170	13,070	23,530	3,820	2,500	3,940
CAL YR 1971	TOTAL	33,234.9	MEAN	91.1	MAX	834	MIN	5.8	AC-FT	65,920		
WTR YR 1972	TOTAL	33,797.6	MEAN	92.3	MAX	980	MIN	8.6	AC-FT	67,040		

YELLOWSTONE RIVER BASIN

06323500 PINEY CREEK AT UCROSS, WYO.

LOCATION.--Lat 44°33'45", long 106°32'25", in SW¼ sec.18, T.53 N., R.80 W., Sheridan County, on left bank at Ucross, 190 ft upstream from bridge on U.S. Highways 14 and 16, and 1 mile upstream from mouth.

DRAINAGE AREA.--267 sq mi.

PERIOD OF RECORD.--May 1917 to September 1923 (no winter records), January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,066.83 ft above mean sea level. Prior to Sept. 30, 1923, non-recording gage at approximately same site at different datum.

AVERAGE DISCHARGE.--22 years (1950-72), 81.2 cfs (58,830 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,000 cfs June 10 (gage height, 4.97 ft); maximum gage height recorded, 6.00 ft Mar. 6 (backwater from ice); minimum daily discharge, 6.6 cfs Jan. 26.

Period of record: Maximum discharge, 3,570 cfs June 16, 1963 (gage height, 7.33 ft); minimum daily, 0.60 cfs Oct. 12-26, 1955, Sept. 28, Oct. 1, 2, 1956.

Maximum stage known, 10.9 ft (present datum) June 1, 1929, from information by local resident. Stage may have been affected by backwater from bridge.

REMARKS.--Records fair except those for winter period, which are poor. Some regulation by Cloud Peak Reservoir (capacity, 3,385 acre-ft), Willow Park Reservoir (capacity, 4,457 acre-ft), Kearny Lake (capacity, 1,860 acre-ft), and Lake De Smet (capacity, 32,250 acre-ft). Diversion above station from South Piney Creek into Rock Creek basin for irrigation. Diversions for irrigation of about 9,800 acres above station.

REVISIONS (WATER YEARS).--WSP 1176: Drainage area. WSP 1439: 1952.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	13	8.2	9.6	7.4	100	110	56	66	86	56	97
2	66	14	8.8	9.4	7.2	90	120	55	59	110	72	95
3	62	15	10	8.0	7.2	70	110	55	61	162	124	94
4	55	14	12	9.0	7.4	70	110	55	94	162	143	101
5	66	14	11	9.6	7.4	100	102	56	101	139	128	101
6	76	16	11	10	7.6	230	97	58	181	108	112	92
7	70	13	11	11	8.0	160	90	59	150	88	108	94
8	70	16	9.0	10	8.6	160	81	61	128	77	104	88
9	62	19	10	9.0	8.6	200	77	61	191	83	95	79
10	49	16	11	8.6	8.0	280	79	64	685	83	94	72
11	49	15	10	8.6	7.4	320	74	62	775	64	86	74
12	34	15	9.4	8.4	7.4	270	72	64	474	50	79	72
13	29	14	9.4	8.0	7.8	250	72	66	104	70	77	77
14	25	14	9.8	7.4	7.4	240	74	61	94	76	76	86
15	28	14	10	7.8	7.8	250	72	61	86	81	69	97
16	32	15	10	8.4	7.8	250	70	58	85	62	69	120
17	28	15	10	9.0	8.6	220	70	56	85	53	66	118
18	43	14	9.6	8.0	8.6	190	72	58	86	49	66	120
19	39	12	10	7.8	8.4	180	72	66	108	35	72	124
20	33	13	10	7.4	10	170	70	74	106	36	69	122
21	30	15	10	8.0	11	150	70	176	103	74	64	126
22	28	16	10	7.8	13	140	67	130	97	85	66	118
23	27	15	9.4	7.8	12	140	66	85	97	79	69	114
24	27	14	9.4	7.4	11	150	62	69	103	77	85	92
25	23	13	9.4	7.0	11	150	61	67	103	69	104	83
26	20	13	8.8	6.6	11	140	59	77	110	61	106	83
27	23	13	7.6	6.8	12	130	58	70	148	55	106	79
28	20	11	9.0	7.0	15	120	58	69	141	56	108	76
29	19	10	9.8	7.6	20	110	56	67	124	48	101	56
30	15	9.0	9.6	8.0	-----	105	56	61	104	45	94	28
31	13	-----	9.6	7.6	-----	110	-----	67	-----	53	90	-----
TOTAL	1,198	420.0	302.8	256.6	274.6	5,245	2,307	2,144	4,849	2,376	2,758	2,778
MEAN	38.6	14.0	9.77	8.28	9.47	169	76.9	69.2	162	76.6	89.0	92.6
MAX	76	19	12	11	20	320	120	176	775	162	143	126
MIN	13	9.0	7.6	6.6	7.2	70	56	55	59	35	56	28
AC-FT	2,380	833	601	509	545	10,400	4,580	4,250	9,620	4,710	5,470	5,510
CAL YR 1971	TOTAL 33,352.62		MEAN 91.4		MAX 735	MIN .82	AC-FT 66,150					
WTR YR 1972	TOTAL 24,909.00		MEAN 68.1		MAX 775	MIN 6.6	AC-FT 49,410					

PEAK DISCHARGE (BASE, 750 CFS)

DATE TIME G.H.T. DISCHARGE

6-10 1200 4.97 1,000

06324000 CLEAR CREEK NEAR ARVADA, WYO.

LOCATION.--Lat 44°52'18", long 106°04'56", in SE¼ sec.36, T.57 N., R.77 W., Sheridan County, on right bank 600 ft downstream from Cabin Creek, 1.8 miles upstream from mouth, and 16 miles north of Arvada.

DRAINAGE AREA.--1,110 sq mi, approximately.

PERIOD OF RECORD.--August 1915 to April 1919 and April 1928 to May 1929 (no winter records), September 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,506.51 ft above mean sea level. July 21, 1915, to Apr. 30, 1919, nonrecording gage at same site at different datum. Apr. 15, 1928, to May 26, 1929, nonrecording gage at site 0.2 mile upstream at different datum. Sept. 13, 1939, to Jan. 14, 1951, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--33 years (1939-72), 179 cfs (129,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,590 cfs June 9 (gage height, 6.46 ft); maximum gage height, 8.24 ft Mar. 8 (backwater from ice); minimum daily discharge, 23 cfs July 20, 21.

Period of record: Maximum discharge, 9,600 cfs Aug. 5, 1954 (gage height, 10.45 ft), from rating curve extended about 2,500 cfs on basis of slope-area measurement at gage height 10.17 ft; no flow July 22, 1954, May 8-29, Sept. 6-9, 1960, July 5, Aug. 26-28, Aug. 31 to Sept. 6, 1961, Aug. 7-10, 1969.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Cloud Peak Reservoir (capacity, 3,385 acre-ft), Willow Park Reservoir (capacity, 4,457 acre-ft), Kearny Lake (capacity, 1,860 acre-ft), and Lake De Smet (capacity, 32,250 acre-ft). Diversions for irrigation of about 35,000 acres above station. Diversion to Kendrick Canal about 4.5 miles upstream; results of discharge measurements, in cubic feet per second, of flow in canal are given below:

May	16		6.06
June	6		28.3
July	6		17.5
Sept.	13		14.1

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1928(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	106	85	66	56	100	192	148	188	212	35	200
2	85	116	69	64	54	170	198	170	287	201	56	248
3	127	118	100	60	54	150	205	150	400	251	58	239
4	168	116	96	54	56	120	192	142	735	381	208	233
5	138	122	92	50	56	120	185	145	745	339	278	230
6	140	131	86	52	58	180	188	150	560	275	218	212
7	155	94	86	54	60	400	190	172	580	233	173	202
8	158	118	70	54	62	280	192	162	538	233	165	212
9	150	145	76	54	62	280	182	140	963	200	140	210
10	138	131	78	54	58	500	182	140	742	178	130	186
11	118	129	70	52	56	780	178	145	1,390	150	126	152
12	112	122	70	52	56	820	175	145	1,140	98	114	145
13	104	116	70	52	60	700	175	136	715	69	96	149
14	96	110	70	50	56	620	182	131	389	58	83	140
15	100	108	70	50	56	600	178	127	298	60	78	144
16	110	112	70	54	56	500	158	127	255	57	69	152
17	127	112	70	52	56	454	152	131	213	51	59	165
18	148	110	70	52	56	400	162	162	260	33	50	158
19	172	100	76	52	56	344	180	224	269	25	66	152
20	182	89	76	50	58	308	172	278	345	23	77	152
21	150	116	76	52	60	299	162	257	360	23	71	143
22	140	122	76	52	60	266	158	630	288	53	79	140
23	133	110	76	52	62	245	148	595	248	76	78	151
24	127	104	76	50	62	248	150	375	324	80	109	151
25	120	100	72	48	62	260	136	251	293	66	254	141
26	118	102	70	46	62	248	136	224	306	58	281	137
27	114	100	62	50	60	236	148	275	328	45	260	155
28	118	85	68	54	66	212	142	208	329	39	227	152
29	120	91	68	58	70	198	133	182	284	34	205	148
30	96	106	68	60	-----	188	133	172	221	32	198	137
31	100	-----	66	58	-----	185	-----	170	-----	32	184	-----
TOTAL	3,928	3,341	2,328	1,658	1,706	10,411	5,064	6,464	13,993	3,665	4,225	5,145
MEAN	127	111	75.1	53.5	58.8	336	169	209	466	118	136	172
MAX	182	145	100	66	70	820	205	630	1,390	381	281	248
MIN	64	85	62	46	54	100	133	127	188	23	35	137
AC-FT	7,790	6,630	4,620	3,290	3,380	20,650	10,040	12,820	27,760	7,270	8,380	10,210
CAL YR 1971	TOTAL	71,673.3	MEAN	196	MAX	2,070	MIN	2.6	AC-FT	142,200		
WTR YR 1972	TOTAL	61,928.0	MEAN	169	MAX	1,390	MIN	23	AC-FT	122,800		

YELLOWSTONE RIVER BASIN

06324500 POWDER RIVER AT MOORHEAD, MONT.

LOCATION.--Lat 45°04'10", long 105°52'00", in NW¼ sec.8, T.9 S., R.48 E., Powder River County, on left bank 500 ft downstream from discontinued post office at Moorhead, 6.2 miles upstream from Buffalo Creek, and at mile 184.8.

DRAINAGE AREA.--8,088 sq mi.

PERIOD OF RECORD.--May 1929 to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 3,334.6 ft above mean sea level. Prior to Aug. 28, 1931, nonrecording gage at site 0.3 mile upstream at different datum. Aug. 28, 1931, to Mar. 21, 1956, water-stage recorder at site 1.2 miles upstream at different datum. Mar. 22 to July 24, 1956, nonrecording gage at site 0.3 mile downstream at different datum. July 25 to Sept. 12, 1956, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years, 453 cfs (328,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,800 cfs Feb. 29 (gage height, 7.36 ft); maximum gage height, 10.25 ft Feb. 24 (ice jam); minimum daily discharge, 60 cfs Dec. 8.
Period of record: Maximum discharge, 23,000 cfs June 17, 1962 (gage height, 12.77 ft, from graph based on gage readings), from rating curve extended above 7,000 cfs on basis of slope-area measurement of peak flow; maximum gage height, 17.7 ft Mar. 21, 1956, site and datum then in use (ice jam); no flow at times.
Flood of Sept. 30, 1923, reached a stage of 19 ft, site and datum used 1931-56, from information by local residents.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by three reservoirs in Wyoming with combined usable capacity of 36,800 acre-ft. Diversions for irrigation of about 50,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1932(M). WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	256	240	115	85	5,260	528	512	830	431	82	338
2	196	300	120	110	80	4,280	536	528	850	424	89	364
3	202	274	70	100	85	2,890	520	587	949	431	120	371
4	232	274	100	80	90	1,590	512	596	1,200	528	130	352
5	238	310	120	95	95	1,150	488	544	1,430	544	319	452
6	214	280	90	110	100	1,410	496	520	1,710	496	438	578
7	226	250	70	125	120	3,460	504	528	1,950	488	364	480
8	226	250	60	130	115	2,810	488	569	1,640	459	286	410
9	214	310	85	130	115	2,310	480	632	1,700	424	262	371
10	214	397	100	125	110	2,780	496	632	1,560	378	226	326
11	208	352	90	120	115	3,290	504	632	1,770	358	208	286
12	196	390	90	110	120	3,190	488	614	1,640	312	196	262
13	190	352	90	95	125	2,540	473	700	1,330	268	166	268
14	184	332	80	75	130	1,730	473	740	905	220	145	262
15	184	319	90	90	140	1,440	496	700	740	208	130	250
16	196	312	80	100	150	1,180	512	690	670	202	115	256
17	220	310	100	110	160	1,000	520	660	750	190	96	262
18	268	290	130	100	170	916	496	830	1,080	166	86	256
19	293	240	120	100	180	830	528	1,060	1,620	130	150	244
20	319	268	115	100	190	750	552	1,210	1,470	100	404	232
21	384	280	110	120	200	730	552	1,320	2,390	95	268	226
22	371	306	105	110	210	700	544	1,510	1,430	145	268	220
23	338	300	100	100	800	670	596	1,630	1,040	178	220	232
24	306	290	95	90	2,500	670	632	1,570	830	172	196	232
25	286	290	95	80	2,370	670	632	1,290	927	208	226	232
26	280	290	90	70	2,040	670	544	1,170	680	208	1,900	214
27	274	290	90	80	1,880	680	496	1,140	610	150	982	232
28	280	290	95	90	2,120	641	473	1,130	550	125	623	238
29	312	280	100	90	6,860	605	488	1,070	500	103	452	244
30	262	270	105	85	-----	578	528	971	466	86	390	238
31	256	-----	110	85	-----	536	-----	894	-----	82	358	-----
TOTAL	7,704	8,952	3,135	3,120	21,455	51,956	15,575	27,179	35,217	8,309	9,895	8,928
MEAN	249	298	101	101	740	1,676	519	877	1,174	268	319	298
MAX	384	397	240	130	6,860	5,260	632	1,630	2,390	544	1,900	578
MIN	135	240	60	70	80	536	473	512	466	82	82	214
AC-FT	15,280	17,760	6,220	6,190	42,560	103,100	30,890	53,910	69,850	16,480	19,630	17,710

CAL YR 1971 TOTAL 199,009.0 MEAN 545 MAX 7,160 MIN 8.0 AC-FT 394,700
WTR YR 1972 TOTAL 201,425.0 MEAN 550 MAX 6,860 MIN 60 AC-FT 399,500

PEAK DISCHARGE (BASE, 3,700 CFS)

NOTE.--Stage-discharge relation affected by ice Nov. 30 to Feb. 24.

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
2-24	a0800	--	a4,000	3-7	1515	5.61	4,350
2-29	1300	7.36	7,800	3-13	0030	5.40	3,990

a About.

YELLOWSTONE RIVER BASIN

97

06325500 LITTLE POWDER RIVER NEAR BROADUS, MONT.

LOCATION.--Lat 45°23'25", long 105°18'15", in NW¼NE¼ sec.21, T.5 S., R.52 E., Powder River County, on left bank 1.5 miles downstream from East Fork, 5.5 miles southeast of Broadus, and 8 miles upstream from mouth.

DRAINAGE AREA.--1,974 sq mi.

PERIOD OF RECORD.--May 1947 to September 1953, water year 1956 (annual maximum), March 1957 to September 1972 (fragmentary record March to September 1962), discontinued. Monthly discharge only for May 1947, published in WSP 1309.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 3,020 ft (by barometer). Prior to Dec. 10, 1962, water-stage recorder at site 0.8 mile upstream at different datum.

AVERAGE DISCHARGE.--20 years (1947-53, 1957-61, 1962-72), 39.6 cfs (28,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 2,700 cfs Mar. 3 (gage height, 9.3 ft, backwater from ice); minimum daily, 3.0 cfs Sept. 23.

Period of record: Maximum discharge, about 2,700 cfs Mar. 3, 1972 (gage height, 9.3 ft, backwater from ice); maximum gage height, 9.36 ft Mar. 19 or 20, 1960 (from high-water mark in gage well, backwater from ice, site and datum then in use); no flow at times.

REMARKS.--Records fair except those for winter period, which are poor. Small diversions for irrigation of hay meadows above station.

REVISIONS (WATER YEARS).--WSP 1116: 1947. WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	22	13	9.0	7.5	1,250	87	41	37	21	6.0	4.3
2	103	19	13	7.0	7.5	1,500	84	41	32	21	6.0	4.3
3	119	18	12	6.0	7.5	2,400	81	43	30	22	6.8	4.3
4	106	18	11	6.0	7.5	1,720	81	45	31	21	6.8	4.5
5	116	16	10	7.0	7.5	1,000	75	44	30	20	6.5	4.1
6	116	14	9.0	8.0	7.5	599	66	40	27	18	5.2	4.3
7	98	15	8.0	9.0	7.2	952	63	41	26	16	17	4.0
8	79	16	7.5	10	7.0	984	63	38	26	16	37	4.0
9	76	14	9.0	10	8.0	1,230	62	37	36	15	21	4.0
10	57	15	10	10	9.0	1,020	58	36	45	14	12	4.0
11	43	15	9.0	10	12	592	55	39	89	14	8.5	4.0
12	29	14	8.0	9.0	10	557	52	48	92	13	6.8	4.0
13	23	15	7.0	8.0	9.0	547	51	54	58	10	6.5	4.0
14	19	15	7.0	7.0	9.0	342	58	55	44	12	5.2	3.9
15	18	13	7.0	8.0	9.0	258	54	50	36	12	5.8	3.7
16	33	12	7.0	9.0	9.5	204	56	47	34	11	8.4	3.6
17	97	11	7.0	8.5	10	178	56	46	29	9.4	6.0	3.5
18	108	14	8.0	8.0	40	153	52	45	28	9.1	15	3.4
19	133	16	8.0	7.5	30	138	51	46	39	13	45	3.3
20	133	17	8.0	7.0	150	124	51	46	36	9.7	34	3.2
21	126	18	8.0	8.0	300	114	61	60	34	7.6	20	3.1
22	122	21	8.0	9.0	540	111	57	58	39	44	10	3.1
23	81	16	8.0	8.0	700	106	50	135	38	12	14	3.0
24	63	16	8.0	7.0	650	103	49	82	35	9.1	16	3.2
25	43	15	8.0	6.0	600	111	47	57	29	6.5	11	3.5
26	47	14	8.0	5.5	550	108	44	44	29	6.0	7.9	4.5
27	47	14	7.0	6.0	500	110	42	36	48	5.8	6.5	5.5
28	37	14	8.0	7.0	600	100	40	38	38	6.5	5.8	5.0
29	26	14	9.0	7.5	850	94	47	36	29	7.6	5.2	4.8
30	28	13	9.5	8.0	-----	89	42	36	26	7.0	4.5	4.8
31	27	-----	10	7.5	-----	87	-----	38	-----	7.0	4.8	-----
TOTAL	2,163	464	270.0	243.5	5,654.7	16,881	1,735	1,502	1,150	416.3	371.2	118.9
MEAN	69.8	15.5	8.71	7.85	195	545	57.8	48.5	38.3	13.4	12.0	3.96
MAX	133	22	13	10	850	2,400	87	135	92	44	45	5.5
MIN	10	11	7.0	5.5	7.0	87	40	36	26	5.8	4.5	3.0
AC-FT	4,290	920	536	483	11,220	33,480	3,440	2,980	2,280	826	736	236
CAL YR 1971	TOTAL 42,695.00		MEAN 117		MAX 1,800		MIN 0		AC-FT 84,690			
WTR YR 1972	TOTAL 30,969.60		MEAN 84.6		MAX 2,400		MIN 3.0		AC-FT 61,430			

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.HT.	DISCHARGE
2-22	2300	b6.37	a1,200
3- 3	0500	b9.3	a2,700
3- 9	2130	6.67	1,430

a About.

b Backwater from ice.

NOTE.--Stage-discharge relation affected by ice Nov. 26 to Mar. 3 (no gage-height record Jan. 30, Feb. 1, 3, 5, 7, 9).

Reservoirs in Yellowstone River basin in Wyoming

06224500 BULL LAKE.--Lat 43°12'35", long 109°02'30", in E½NW¼ sec.30, T.3 N., R.2 W., Fremont County, Wind River Indian Reservation, at dam on Bull Lake Creek, 2.8 miles upstream from mouth of Bull Lake Creek, and 9.8 miles south of Lenore. Period of record, April 1938 to current year. Monthend contents only for some periods, published in WSP 1309. Published as Bull Lake Reservoir near Lenore 1938-50. Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation datum). Extremes for current year: Maximum daily contents, 151,800 acre-ft July 2 (elevation, 5,804.80 ft); minimum daily, 78,730 acre-ft May 16 (elevation, 5,778.95 ft). Extremes for period of record: Maximum daily contents, 154,200 acre-ft Aug. 10, 1965 (elevation, 5,805.70 ft); minimum daily (since appreciable storage was attained), 5,540 acre-ft Mar. 15, 1950 (elevation, 5,742.56 ft).

Reservoir is formed by rock-fill dam completed by Bureau of Reclamation July 22, 1938. Capacity, 152,500 acre-ft below elevation 5,805.00 ft (top of spillway gates). Dead storage, 722 acre-ft. Figures given herein represent total contents. Water used for irrigation near Riverton. Records furnished by Bureau of Reclamation.

06258900 BOYSEN RESERVOIR.--Lat 43°25'00", long 108°10'37", in NW¼NW¼ sec.16, T.5 N., R.6 E., Fremont County, at dam on Wind River and 13 miles north of Shoshoni. Period of record, October 1951 to current year. Water-stage recorder. Datum of gage is at mean sea level, datum of 1933 (levels by Bureau of Reclamation). Extremes for current year: Maximum daily contents, 808,300 acre-ft June 25, 26 (elevation, 4,725.32 ft); minimum daily, 501,100 acre-ft May 4-8 (elevation, 4,707.00 ft). Extremes for period of record: Maximum daily contents, 922,400 acre-ft July 6, 7, 1967 (elevation, 4,730.83 ft); minimum daily (since normal use of water started), 251,800 acre-ft Mar. 18, 19, 1956 (elevation, 4,684.18 ft).

Reservoir is formed by rock-fill dam completed by Bureau of Reclamation in October 1951. Capacity, 802,000 acre-ft below elevation 4,725.00 ft (top of spillway gate). Includes 59,880 acre-ft dead storage below elevation 4,657.00 ft (invert of penstock pipe). Figures given herein represent total contents. Water used for irrigation, flood control, and power development. Records furnished by Bureau of Reclamation.

06260300 ANCHOR RESERVOIR.--Lat 43°39'50", long 108°49'27", in sec.26, T.43 N., R.100 W., Hot Springs County, at dam on South Fork Owl Creek, 2 miles downstream from Middle Fork, 3 miles southeast of Anchor, and 32 miles west of Thermopolis. Period of record, November 1960 to current year. Water-stage recorder. Datum of gage is mean sea level (Bureau of Reclamation datum). Extremes for current year: Maximum daily contents, 4,430 acre-ft June 13 (elevation, 6,398.56 ft); no storage on many days. Extremes for period of record: Maximum daily contents, 9,250 acre-ft July 4, 1967 (elevation, 6,418.52 ft); no storage on many days each year.

Reservoir is formed by concrete arch dam completed by Bureau of Reclamation in 1960. Capacity, 17,230 acre-ft, below elevation 6,441.00 ft (crest of spillway). Includes 68 acre-ft below elevation 6,343.75 ft (invert of river outlet). Figures given herein represent total contents. Water used for irrigation of lands in Owl Creek basin. Records furnished by Bureau of Reclamation.

06281500 BUFFALO BILL RESERVOIR.--Lat 44°30'05", long 109°11'00", in NE¼ sec.12, T.52 N., R.103 W., Park County, at dam on Shoshone River, 5 miles upstream from Trail Creek, and 6 miles southwest of Cody. Period of record, May to July 1909, January 1910 to current year. Monthend contents only prior to October 1938, published in WSP 1309. Prior to October 1944, published as Shoshone Reservoir near Cody. Water-stage recorder. Datum of gage is mean sea level (Bureau of Reclamation datum). Prior to July 8, 1959, nonrecording gage at same datum. Extremes for current year: Maximum daily contents, 432,800 acre-ft July 9 (elevation, 5,361.70 ft); minimum daily, 133,200 acre-ft May 14 (elevation, 5,298.70 ft). Extremes for period of record: Maximum daily contents, 507,000 acre-ft June 15, 1918 (elevation, 5,367.3 ft); minimum daily, 19,000 acre-ft Jan. 23-25, 1941 (elevation, 5,225.3 ft).

Reservoir is formed by masonry dam completed by Bureau of Reclamation in 1909. Capacity, 421,300 acre-ft between elevations 5,140.00 (gate sill) and 5,360.00 ft (crest of spillway). Dead storage negligible. Figures given herein represent total contents. Water used for power development and irrigation of lands east of Cody. Records furnished by Bureau of Reclamation.

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

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre-feet)
06224500 Bull Lake				06258900 Boyesen Reservoir		
Sept. 30	5,802.97	146,100	-	4,721.77	740,600	-
Oct. 31	5,803.40	147,400	+1,300	4,721.98	744,400	+3,800
Nov. 30	5,801.97	143,000	-4,400	4,719.85	705,700	-38,700
Dec. 31	5,797.35	129,000	-14,000	4,719.25	695,000	-10,700
CAL YR 1971	-	-	+24,700	-	-	+82,300
Jan. 31	5,792.20	114,000	-15,000	4,715.55	631,600	-63,400
Feb. 29	5,789.55	106,600	-7,400	4,713.70	601,600	-30,000
Mar. 31	5,787.30	100,500	-6,100	4,711.13	561,700	-39,900
Apr. 30	5,783.40	90,080	-10,420	4,707.19	503,800	-57,900
May 31	5,782.30	87,230	-2,850	4,712.07	576,100	+72,300
June 30	5,804.50	150,900	+63,670	4,724.81	798,300	+222,200
July 31	5,801.10	140,300	-10,600	4,723.92	781,100	-17,200
Aug. 31	5,798.40	132,100	-8,200	4,721.68	738,900	-42,200
Sept. 30	5,794.90	121,800	-10,300	4,719.40	697,700	-41,200
WTR YR 1972	-	-	-24,300	-	-	-42,900
06260300 Anchor Reservoir				06281500 Buffalo Bill Reservoir		
Sept. 30	6,344.00	a69	-	5,350.09	358,000	-
Oct. 31	6,344.00	69	0	5,345.95	333,400	-24,600
Nov. 30	6,343.25	62	-7	5,343.95	321,900	-11,500
Dec. 31	Dry	0	-62	5,337.75	288,100	-33,800
CAL YR 1971	-	-	0	-	-	+64,400
Jan. 31	6,343.25	62	+62	5,334.68	272,400	-15,700
Feb. 29	6,344.75	76	+14	5,328.82	244,300	-28,100
Mar. 31	6,357.67	347	+271	5,325.00	227,200	-17,100
Apr. 30	6,351.00	175	-172	5,305.70	154,400	-72,800
May 31	6,382.32	2,040	+1,865	5,316.00	190,500	+36,100
June 30	6,383.15	2,140	+100	5,359.90	420,600	+230,100
July 31	Dry	0	-2,140	5,359.48	417,800	-2,800
Aug. 31	6,348.75	134	+134	5,355.77	393,600	-24,200
Sept. 30	Dry	0	-134	5,352.55	373,200	-20,400
WTR YR 1972	-	-	-69	-	-	+15,200

a Contents from new capacity table used beginning Oct. 1, 1971;
contents from capacity table used prior to Oct. 1, 1971 was 153 acre-ft.

CHEYENNE RIVER BASIN

99

06386000 LANCE CREEK AT SPENCER, WYO.

LOCATION.--Lat 43°22', long 104°16', in sec.14, T.39 N., R.62 W., Niobrara County, on right bank 0.4 mile north of Spencer, 1 mile upstream from mouth, and 34 miles south of Newcastle.

DRAINAGE AREA.--2,070 sq mi, approximately.

PERIOD OF RECORD.--April 1948 to September 1954, August 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,750 ft (from map prepared by Army Map Service, Corps of Engineers). Prior to Aug. 14, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 26.3 cfs (19,050 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,430 cfs June 16 (gage height, 4.83 ft); no flow for many days.
Period of record: Maximum discharge, 7,410 cfs May 24, 1971 (gage height, 9.67 ft); no flow for many days each year.

REMARKS.--Records poor. There are many small reservoirs above station used for storage of stock and irrigation water (total capacity, about 12,800 acre-ft). Diversions for irrigation of about 3,500 acres above station.

REVISIONS (WATER YEARS).--WSP 1209: 1948(P), 1950.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.20	.50	.50	0	33	1.5	2.5	2.3	2.9	.36	0
2	.05	.30	.50	.30	0	26	1.5	2.5	2.0	4.9	.44	0
3	.05	.40	.50	0	0	26	1.5	2.5	2.0	4.9	.36	0
4	.05	.50	.50	0	0	37	1.5	2.5	2.0	3.9	.36	0
5	.10	.50	.50	0	0	23	1.5	2.5	2.0	4.9	.36	4.6
6	.10	.50	.50	0	0	17	1.5	2.5	2.0	4.4	1.6	14
7	.10	.50	.30	0	0	19	1.5	2.5	2.0	3.9	.50	8.2
8	.10	.50	.30	0	0	12	1.5	2.5	2.0	2.2	.20	4.3
9	.10	.50	.30	.20	0	11	1.5	2.5	2.0	1.6	0	2.2
10	.20	.50	.30	.20	0	7.4	1.5	2.5	2.0	1.1	0	1.0
11	.20	.50	.30	0	0	6.0	1.5	2.5	2.0	.95	0	1.0
12	.20	.50	.30	0	0	4.5	1.5	30	1.5	.66	0	.50
13	.20	.50	.30	0	0	3.5	2.0	27	1.5	.54	0	.50
14	.20	.50	.30	0	0	3.0	2.0	15	1.5	.44	0	.30
15	.20	.50	.30	0	0	2.5	2.0	6.0	1.2	.44	0	.30
16	.20	.50	0	0	0	2.5	2.0	3.5	4.90	.44	0	.20
17	.20	.50	0	0	0	2.0	2.0	2.0	313	.80	0	.10
18	.20	.50	.10	0	0	1.5	2.5	1.0	196	.44	0	.10
19	.20	.50	.20	0	0	1.5	2.5	1.0	120	.44	0	0
20	.20	.50	.40	0	1.0	1.5	2.5	1.0	128	.44	73	0
21	.20	.50	.60	0	.50	1.5	2.5	13	63	.44	65	0
22	.20	.50	.80	0	100	1.5	2.5	10	32	.44	11	0
23	.20	.50	1.0	0	100	1.5	2.5	5.0	22	.44	5.4	0
24	.20	.50	1.0	0	100	1.5	2.5	3.0	20	.36	3.4	0
25	.20	.50	1.0	0	80	1.5	2.5	2.5	15	.36	2.5	0
26	.20	.50	.80	0	80	1.5	2.5	2.5	11	.36	2.0	0
27	.20	.50	.60	0	60	1.5	2.5	2.5	9.0	.29	1.0	0
28	.20	.50	.50	0	40	1.5	2.5	2.5	7.0	.29	.50	0
29	.20	.50	.50	0	35	1.5	2.5	2.5	5.5	.23	0	0
30	.20	.50	.50	0	-----	1.5	2.5	2.5	3.9	.23	0	0
31	.20	-----	.50	0	-----	1.5	-----	2.5	-----	.29	0	-----
TOTAL	5.10	14.40	14.20	1.20	646.0	256.4	60.5	162.5	1,463.4	44.02	171.22	37.90
MEAN	.16	.48	.46	.039	22.3	8.27	2.02	5.24	48.8	1.42	5.52	1.26
MAX	.20	.50	1.0	.50	100	37	2.5	30	490	4.9	73	14
MIN	.05	.20	0	0	0	1.5	1.5	1.0	1.2	.23	0	0
AC-FT	10	29	28	2.4	1,280	509	120	322	2,900	87	340	75

CAL YR 1971 TOTAL 27,010.30 MEAN 74.0 MAX 5,540 MIN 0 AC-FT 53,570
WTR YR 1972 TOTAL 2,876.84 MEAN 7.86 MAX 490 MIN 0 AC-FT 5,710

PEAK DISCHARGE (BASE, 750 CFS)

NOTE.--No gage-height record Oct. 1 to Dec. 15,
Mar. 10 to May 11.

DATE TIME G.H.T. DISCHARGE
6-16 1600 4.83 1,430

CHEYENNE RIVER BASIN

06386500 CHEYENNE RIVER NEAR SPENCER, WYO.

LOCATION.--Lat 43°25', long 104°08', in N½ sec.25, T.40 N., R.61 W., Niobrara County, at right abutment on downstream side of old highway bridge, 1.8 miles downstream from Robbers Roost Creek, 7.5 miles northeast of Spencer, and 30 miles south of Newcastle.

DRAINAGE AREA.--5,270 sq mi, approximately.

PERIOD OF RECORD.--October 1948 to current year. Published as South Fork Cheyenne River near Spencer October 1949 to September 1951.

GAGE.--Water-stage recorder. Altitude of gage is 3,600 ft (from topographic map). Prior to Oct. 18, 1955, water-stage recorder at site 400 ft upstream, Oct. 18, 1955, to Aug. 1, 1961, at site 2,500 ft upstream, and Aug. 1, 1961, to Aug. 22, 1962, at site 2,200 ft upstream, all at different datums.

AVERAGE DISCHARGE.--24 years, 59.4 cfs (43,040 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,730 cfs June 16 (gage height, 4.79 ft); no flow for many days. Period of record: Maximum discharge, 16,000 cfs May 27, 1962 (gage height, 8.74 ft, site and datum then in use); no flow for many days in each year.

REMARKS.--Records poor. There are many small reservoirs above station used for storage of stock and irrigation water (total capacity, about 33,900 acre-ft). Diversions above station for irrigation of about 6,860 acres, of which about 140 acres lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.50		0	585	4.7	3.3	3.9	8.8	0	0
2		0	.50		0	206	4.7	3.3	3.6	14	0	0
3		0	0		0	130	4.7	3.3	5.7	13	0	0
4		0	0		0	40	4.3	3.3	1.4	9.9	0	0
5		0	0		0	47	4.3	3.0	1.2	6.6	0	11
6		0	0		0	73	3.6	3.0	141	6.6	5.4	70
7		0	0		0	29	2.8	3.0	83	6.0	3.6	59
8		0	0		0	20	2.5	2.8	46	5.1	1.1	31
9		0	0		0	25	2.3	3.0	35	3.9	.10	20
10		0	0		0	17	2.3	4.3	31	2.5	0	10
11		0	0		0	16	2.3	5.5	35	1.8	.10	5.0
12		0	0		0	16	2.3	7.7	40	.90	0	3.0
13		0	0		0	14	2.3	31	54	.30	0	1.5
14		0	0		0	12	2.5	19	63	.15	0	0
15		0	0		0	8.8	2.8	13	24	.05	0	0
16		1.0	0		0	7.1	2.3	9.3	372	.01	0	0
17		1.0	0		0	6.6	2.0	6.6	686	.30	0	0
18		1.9	0		0	5.5	3.9	5.5	414	.10	0	0
19		1.0	0		0	5.1	4.7	5.1	255	0	0	0
20		1.0	0		0	5.1	4.3	6.0	239	0	85	0
21		1.0	0		41	4.7	3.6	8.3	839	0	478	0
22		1.0	0		272	4.7	3.0	212	309	0	101	0
23		1.0	0		196	4.7	2.8	63	122	0	26	0
24		.50	0		241	6.6	2.5	26	64	0	11	0
25		.50	0		283	6.0	2.3	18	46	0	5.0	0
26		.50	0		150	4.7	2.3	16	31	0	2.0	0
27		.50	0		120	4.3	2.5	13	23	0	0	0
28		.50	0		85	4.3	3.3	9.3	16	0	0	0
29		.50	0		257	4.3	3.9	6.6	19	0	0	0
30		.50	0		-----	4.7	3.6	5.1	15	0	0	0
31		-----	0		-----	4.7	-----	4.3	-----	0	0	-----
TOTAL	0	12.30	1.00	0	1,645	1,321.9	95.4	522.6	4,017.8	80.01	718.30	210.5
MEAN	0	.41	.032	0	56.7	42.6	3.18	16.9	134	2.58	23.2	7.02
MAX	0	1.8	.50	0	283	585	4.7	212	839	14	478	70
MIN	0	0	0	0	0	4.3	2.0	2.8	1.2	0	0	0
AC-FT	0	24	2.0	0	3,260	2,620	189	1,040	7,970	159	1,420	418
CAL YR 1971	TOTAL	64,257.50	MEAN	176	MAX	10,700	MIN	0	AC-FT	127,500		
WTR YR 1972	TOTAL	8,624.81	MEAN	23.6	MAX	839	MIN	0	AC-FT	17,110		

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

06394000 BEAVER CREEK NEAR NEWCASTLE, WYO.

LOCATION.--Lat 43°32'07", long 104°07'02", in NW¼ sec.18, T.41 N., R.60 W., Weston County, at highway bridge, 2.2 miles downstream from Sheep Creek, and 23 miles south of Newcastle.

DRAINAGE AREA.--1,320 sq mi, approximately.

PERIOD OF RECORD.--February to September 1943, October 1944 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,660 ft (from topographic map). Prior to Nov. 1, 1945, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--28 years (1944-72), 33.2 cfs (24,050 acre-ft per year).

EXTREMES.--Current year: Maximum discharge not determined, about Mar. 2; minimum daily, 3.6 cfs June 17.

Period of record: Maximum discharge, 11,900 cfs June 16, 1962 (gage height, 19.98 ft); no flow at times in 1943, 1945, 1950, 1952-61, 1966.

REMARKS.--Records fair except those for winter period, which are poor. There are many small reservoirs above station used for storage of stock and irrigation water (total capacity, about 11,000 acre-ft). Diversions for irrigation of about 4,900 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1209: 1943, 1946, 1948-49.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	22	15	12	8.0	1,000	20	5.3	5.6	31	12	8.3
2	9.1	19	15	12	8.0	1,000	21	6.0	4.7	27	14	6.1
3	9.5	18	15	10	8.0	844	23	13	5.3	23	31	6.7
4	11	18	15	10	8.0	600	23	12	6.7	22	24	6.9
5	9.9	18	15	10	10	500	23	7.0	15	36	121	6.8
6	136	18	15	10	10	500	24	4.7	32	31	91	7.6
7	80	18	15	10	10	550	23	8.5	14	21	26	7.6
8	44	18	12	10	10	550	26	6.1	9.5	16	18	7.5
9	29	18	12	10	10	400	24	5.2	7.5	14	16	7.5
10	22	18	12	10	10	168	24	7.8	7.7	11	14	7.5
11	19	18	12	10	10	176	21	13	7.0	9.4	13	7.3
12	15	18	12	10	10	210	6.9	16	8.5	9.4	11	7.4
13	14	18	12	10	15	242	5.4	66	22	8.0	11	7.4
14	14	20	12	10	15	258	7.6	40	14	6.6	10	7.5
15	14	20	12	10	15	206	9.6	37	7.8	7.2	10	7.3
16	15	24	12	10	17	126	13	30	5.1	7.2	9.9	7.3
17	15	23	12	10	17	94	12	23	3.6	9.3	9.5	6.5
18	17	25	12	10	20	77	13	17	8.5	8.5	8.7	6.4
19	17	22	12	10	20	64	10	13	11	7.6	5.8	6.5
20	18	20	12	10	20	56	12	13	17	7.5	39	6.2
21	32	20	12	10	20	49	14	11	83	7.6	130	6.5
22	34	20	12	10	20	45	21	163	194	7.3	144	6.9
23	25	20	12	10	20	40	28	94	61	6.5	29	7.2
24	21	20	12	10	100	32	21	35	61	6.3	17	7.5
25	19	20	12	8.0	400	29	13	21	34	48	12	7.8
26	18	20	12	8.0	500	26	10	15	25	11	13	8.0
27	18	20	12	8.0	400	24	7.9	11	259	8.3	12	8.8
28	19	15	12	8.0	400	27	6.4	10	354	7.4	9.6	9.6
29	19	15	12	8.0	772	24	6.5	12	77	6.8	8.5	10
30	19	15	12	8.0	-----	22	6.4	9.6	44	6.9	7.8	11
31	21	-----	12	8.0	-----	20	-----	7.3	-----	7.5	8.1	-----
TOTAL	760.2	578	393	300.0	2,883.0	7,959	476.1	732.5	1,404.5	436.3	885.9	225.6
MEAN	24.5	19.3	12.7	9.68	99.4	257	15.9	23.6	46.8	14.1	28.6	7.52
MAX	136	25	15	12	772	1,000	28	163	354	48	144	11
MIN	6.7	15	12	8.0	8.0	20	5.4	4.7	3.6	6.3	5.8	6.1
AC-FT	1,510	1,150	780	595	5,720	15,790	944	1,450	2,790	865	1,760	447
CAL YR 1971	TOTAL 21,025.98		MEAN 57.6		MAX 1,140		MIN 3.71		AC-FT 41,710			
WTR YR 1972	TOTAL 17,034.10		MEAN 46.5		MAX 1,000		MIN 3.6		AC-FT 33,790			

PEAK DISCHARGE (BASE, 500 CFS)

DATE TIME G.H.T. DISCHARGE

a3-2 Unknown Unknown Unknown
6-28 0330 6.36 503

a About.

CHEYENNE RIVER BASIN

06395000 CHEYENNE RIVER AT EDMONT, S. DAK.

LOCATION.--Lat 43°18'20", long 103°49'14", in SW¼SE¼SE¼ sec.36, T.8 S., R.2 E., Fall River County, on right bank at downstream side of bridge on U.S. Highway 18 at Edgemont, 300 ft downstream from Burlington Northern Railroad bridge (corrected) and 600 ft upstream from Cottonwood Creek.

DRAINAGE AREA.--7,143 sq mi.

PERIOD OF RECORD.--June 1903 to November 1906 (no winter records), April 1928 to February 1933, October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,416.56 ft above mean sea level. Prior to Nov. 30, 1906, nonrecording gage 20 ft upstream at datum 2.7 ft lower. Apr. 11, 1928, to Feb. 28, 1933, Oct. 4, 1946, to Oct. 23, 1947, and Jan. 11, 1961, to Apr. 24, 1963, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years (1928-32, 1946-72), 107 cfs (77,520 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 750 cfs June 17; maximum gage height, 3.33 ft Mar. 3; minimum daily discharge, 0.10 cfs Jan. 28 to Feb. 1.

Period of record: Maximum discharge, 13,800 cfs May 25, 1971 (gage height, 8.57 ft); no flow at times most years.

Flood of May 1, 1920 reached a stage of 12.0 ft (present datum), from floodmarks at railroad bridge.

Flood of May 12, 1920 reached a stage of 11.0 ft (present datum), from floodmarks at railroad bridge.

REMARKS.--Records good except those for winter periods, which are poor. Many small reservoirs above station used for stock and irrigation water (total capacity, about 45,000 acre-ft). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1086: Drainage area. WSP 1116: 1947.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	19	15	9.0	.10	200	35	16	7.5	58	9.9	11
2	9.4	20	16	9.0	.20	150	36	14	5.8	47	13	8.1
3	8.8	20	18	6.0	.20	150	36	14	5.8	44	14	8.1
4	11	18	18	6.0	.30	200	35	15	5.8	35	18	7.0
5	11	17	18	6.0	.30	300	35	19	12	30	18	5.4
6	12	19	20	7.0	.40	300	33	18	27	33	74	13
7	84	22	18	5.0	.40	227	31	16	52	33	64	37
8	66	23	14	6.0	.40	214	31	16	56	29	23	29
9	45	23	12	5.0	.40	355	31	20	35	23	14	16
10	31	21	12	4.0	.30	388	32	20	32	18	12	9.9
11	25	22	10	3.5	.30	235	30	22	22	14	14	5.8
12	21	22	9.0	3.5	.50	218	29	22	30	9.3	7.0	7.0
13	18	22	8.0	3.5	1.0	235	22	26	18	7.5	4.7	5.1
14	18	20	7.0	1.0	1.5	249	19	72	16	6.4	2.9	4.0
15	18	21	7.0	.50	1.5	249	16	52	28	4.7	6.1	3.6
16	18	28	7.0	.50	3.0	201	16	36	213	4.4	8.1	2.9
17	18	27	8.0	.50	3.0	143	16	27	614	9.9	4.4	2.0
18	23	14	8.0	1.0	10	116	31	17	347	8.7	4.0	1.5
19	19	18	7.0	1.0	30	87	26	17	258	7.0	6.6	1.8
20	18	32	7.0	1.0	60	75	25	23	171	6.4	6.4	2.0
21	18	22	6.0	3.0	60	60	20	18	459	7.0	149	2.0
22	24	24	6.0	3.0	55	56	19	54	399	4.7	281	3.3
23	32	24	6.0	2.0	50	60	18	227	311	4.0	131	4.0
24	26	16	5.0	1.0	40	64	27	125	163	3.6	43	4.4
25	22	18	4.0	.50	45	48	26	52	124	3.3	21	5.4
26	19	30	4.0	.40	50	44	27	45	80	21	14	5.4
27	20	32	4.0	.30	60	41	26	33	52	10	9.3	6.4
28	25	22	6.0	.10	100	40	21	18	276	2.8	8.7	5.9
29	22	16	6.0	.10	200	41	18	16	267	2.0	7.0	7.0
30	18	16	8.0	.10	-----	38	18	15	95	3.3	5.8	7.5
31	20	-----	10	.10	-----	36	-----	8.7	-----	5.9	7.5	-----
TOTAL	726.4	648	303.0	89.60	773.80	4,820	785	1,093.7	4,179.9	495.9	1,001.4	231.4
MEAN	23.4	21.6	9.77	2.89	26.7	155	26.2	35.3	139	16.0	32.3	7.71
MAX	84	32	20	9.0	200	388	36	227	614	58	281	37
MIN	6.2	14	4.0	.10	.10	36	16	8.7	5.8	2.0	2.9	1.5
AC-FT	1,440	1,290	601	178	1,530	9,560	1,560	2,170	8,290	984	1,990	459

CAL YR 1971 TOTAL 1,677.40 MEAN 4.60 MAX 9,850 MIN .10 AC-FT 3,330
WTR YR 1972 TOTAL 15,148.10 MEAN 41.4 MAX 614 MIN .10 AC-FT 30,050

PEAK DISCHARGE (BASE, 1,500 CFS).--No peak above base.

CHEYENNE RIVER BASIN

103

06427000 KEYHOLE RESERVOIR NEAR MOORCROFT, WYO.

LOCATION.--Lat 44°22'55", long 104°46'45", in NW¼NW¼ sec.27, T.51 N., R.66 W., Crook County, at reservoir dam on Belle Fourche River 12 miles northeast of Moorcroft.

DRAINAGE AREA.--2,000 sq mi, approximately.

PERIOD OF RECORD.--March 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation datum). Prior to May 15, 1958, and Oct. 1, 1968 to Mar. 13, 1970, nonrecording gages, and May 15, 1958, to Sept. 30, 1968, water-stage recorder, all at present site and datum.

EXTREMES.--Current year: Maximum contents, 195,800 acre-ft Mar. 8 (elevation, 4,098.87 ft); minimum, 153,100 acre-ft Oct. 1 (elevation, 4,093.78 ft).

Period of record: Maximum contents, 195,800 acre-ft Mar. 8, 1972 (elevation, 4,098.87 ft); minimum daily contents (since appreciable storage was attained), 6,030 acre-ft Mar. 8, 9, 1955 (elevation, 4,046.35 ft).

REMARKS.--Reservoir is formed by a zoned earth-fill dam completed by the Bureau of Reclamation Oct. 25, 1952. Storage began Feb. 12, 1952. Dead storage (below elevation 4,036.0 ft), 1,170 acre-ft. Inactive storage (between elevations 4,036.0 ft and 4,051.0 ft), 8,310 acre-ft. Total capacity below elevation 4,099.3 ft (crest of spillway), 199,900 acre-ft. Figures given herein represent total contents. The reservoir provides flood control and water for irrigation in Wyoming and near Belle Fourche, S. Dak.

COOPERATION.--Records furnished by Bureau of Reclamation.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,093.81	153,400	-
Oct. 31	4,094.30	157,100	+3,700
Nov. 30	4,094.26	156,800	-300
Dec. 31	4,094.26	156,800	0
CAL YR 1971	-	-	+39,700
Jan. 31	4,094.29	157,100	+300
Feb. 29	4,096.70	176,600	+19,500
Mar. 31	4,097.00	179,100	+2,500
Apr. 30	4,096.90	178,300	-800
May 31	4,097.12	180,200	+1,900
June 30	4,097.53	183,800	+3,600
July 31	4,097.14	180,400	-3,400
Aug. 31	4,096.69	176,500	-3,900
Sept. 30	4,095.98	170,500	-6,000
WTR YR 1972	-	-	+17,100

CHEYENNE RIVER BASIN

06427500 BELLE FOURCHE RIVER BELOW KEYHOLE RESERVOIR, WYO.

LOCATION.--Lat 44°23'05", long 104°46'50", in NE¼SE¼SE¼ sec.21, T.51 N., R.66 W., Crook County, on right bank 0.2 mile downstream from Keyhole Dam, 1 mile downstream from Mule Creek, 2.5 miles upstream from Spring Creek, and 12 miles northeast of Moorcroft.

DRAINAGE AREA.--2,000 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,031.26 ft above mean sea level.

EXTREMES.--Current year: Maximum daily discharge, 813 cfs Mar. 14-18; maximum gage height, 4.62 ft Mar. 10 (backwater from beaver dam); minimum daily discharge, 1.7 cfs on Oct. 13 to Mar. 5 (seepage flow).
Period of record: Maximum discharge, 1,020 cfs Sept. 5, 1951 (gage height, 6.30 ft); minimum daily since appreciable storage in Keyhole Reservoir, 0.30 cfs Feb. 6-20, 1960; no flow at times in 1951-52.

REMARKS.--Records good above 5 cfs and poor below. Flow completely regulated by Keyhole Reservoir 0.2 mile upstream. (See sta 06427000.) Diversions for irrigation of about 820 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	1.7	1.7	1.7	1.7	4.6	4.6	2.6	2.6	2.6	2.2
2	2.0	1.7	1.7	1.7	1.7	1.7	4.6	4.6	2.6	2.6	2.6	2.2
3	2.0	1.7	1.7	1.7	1.7	1.7	4.6	4.6	2.6	2.6	2.6	2.2
4	2.0	1.7	1.7	1.7	1.7	1.7	4.6	4.6	2.6	2.6	2.6	2.2
5	2.0	1.7	1.7	1.7	1.7	1.7	4.6	4.6	2.6	2.6	2.6	2.2
6	2.0	1.7	1.7	1.7	1.7	100	4.6	4.0	2.6	2.6	2.6	2.2
7	2.0	1.7	1.7	1.7	1.7	198	4.6	4.0	2.6	2.6	2.6	2.2
8	2.0	1.7	1.7	1.7	1.7	417	4.6	4.0	2.6	2.6	2.6	2.2
9	2.0	1.7	1.7	1.7	1.7	692	4.6	4.0	2.6	2.6	2.6	2.2
10	2.0	1.7	1.7	1.7	1.7	754	4.6	4.0	2.6	2.6	2.6	2.2
11	2.0	1.7	1.7	1.7	1.7	808	4.6	4.0	2.6	2.6	2.6	2.2
12	2.4	1.7	1.7	1.7	1.7	808	4.6	4.0	2.6	2.6	2.6	2.2
13	1.7	1.7	1.7	1.7	1.7	808	4.6	3.5	2.6	2.6	2.6	2.2
14	1.7	1.7	1.7	1.7	1.7	813	4.6	3.5	2.6	2.6	2.6	2.2
15	1.7	1.7	1.7	1.7	1.7	813	4.6	3.5	2.6	2.6	2.6	2.2
16	1.7	1.7	1.7	1.7	1.7	813	4.6	3.5	2.6	2.6	2.6	2.2
17	1.7	1.7	1.7	1.7	1.7	813	4.6	3.5	2.6	2.6	50	2.2
18	1.7	1.7	1.7	1.7	1.7	813	4.6	3.5	2.6	2.6	96	2.2
19	1.7	1.7	1.7	1.7	1.7	808	4.6	3.5	2.6	2.6	96	2.2
20	1.7	1.7	1.7	1.7	1.7	406	4.6	3.0	2.6	2.6	96	2.2
21	1.7	1.7	1.7	1.7	1.7	3.0	4.6	3.0	2.6	2.6	56	2.2
22	1.7	1.7	1.7	1.7	1.7	3.0	4.6	3.0	2.6	2.6	96	2.2
23	1.7	1.7	1.7	1.7	1.7	226	4.6	3.0	2.6	2.6	96	2.2
24	1.7	1.7	1.7	1.7	1.7	466	4.6	3.0	2.6	2.6	96	2.2
25	1.7	1.7	1.7	1.7	1.7	466	4.6	3.0	2.6	2.6	56	2.2
26	1.7	1.7	1.7	1.7	1.7	463	4.6	3.0	2.6	2.6	96	119
27	1.7	1.7	1.7	1.7	1.7	463	4.6	2.6	2.6	2.6	56	236
28	1.7	1.7	1.7	1.7	1.7	463	4.6	2.6	2.6	2.6	96	236
29	1.7	1.7	1.7	1.7	1.7	460	4.6	2.6	2.6	2.6	96	236
30	1.7	1.7	1.7	1.7	-----	231	4.6	2.6	2.6	2.6	49	236
31	1.7	-----	1.7	1.7	-----	4.6	-----	2.6	-----	2.6	2.2	-----
TOTAL	78.3	51.0	52.7	52.7	49.3	13,121.1	138.0	109.5	78.0	80.6	1,294.8	1,118.0
MEAN	2.53	1.70	1.70	1.70	1.70	423	4.60	3.53	2.60	2.60	41.8	37.3
MAX	2.4	1.7	1.7	1.7	1.7	813	4.6	4.6	2.6	2.6	96	236
MIN	1.7	1.7	1.7	1.7	1.7	1.7	4.6	2.6	2.6	2.6	2.2	2.2
AC-FT	155	101	105	105	98	26,030	274	217	155	160	2,570	2,220

CAL YR 1971 TOTAL 5,405.9 MEAN 14.8 MAX 108 MIN 1.4 AC-FT 10,720
WTR YR 1972 TOTAL 16,224.0 MEAN 44.3 MAX 813 MIN 1.7 AC-FT 32,180

105

LOCATION:--Lat 44°44'59", long 104°02'49", in NE¼NW¼ sec.18, T.9 N., R.1 E., Butte County, on left bank 0.3 mile downstream from State line, 3.7 miles downstream from Oak Creek and 11 miles northwest of Belle Fourche, S. Dak.

PERIOD OF RECORD.--December 1946 to current year. Records for water year 1947 incomplete, yearly estimate published in WSP 1729.

EXTREMES.--Current year: Maximum discharge, 2,330 cfs June 19 (gage height, 11.22 ft); minimum daily, 15 cfs Jan. 28.

REMARKS.--Records good except those for winter periods, which are poor. Diversions above station for irrigation of about 5,400 acres. Flow regulated by Keyhole Reservoir (usable capacity, 191,600 acre-ft), 143 miles upstream since Oct. 25, 1952. Water-quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	60	34	32	19	325	546	133	260	162	72	115
2	137	68	32	32	18	400	286	162	221	151	72	108
3	500	61	30	30	18	650	225	168	192	146	79	78
4	531	60	28	30	18	750	203	152	171	156	76	54
5	190	55	25	32	18	550	185	179	154	152	73	57
6	147	50	25	34	19	550	173	258	143	144	72	52
7	215	66	22	35	20	600	168	278	132	136	70	48
8	158	71	20	35	20	850	165	263	127	134	70	46
9	108	73	22	36	20	1,300	164	239	120	126	68	47
10	84	78	25	35	20	1,250	157	264	222	118	66	45
11	72	75	23	35	22	1,480	146	330	240	110	61	45
12	64	74	20	32	25	2,000	142	352	238	103	57	42
13	59	61	18	30	30	2,030	136	370	197	98	52	42
14	57	58	18	25	30	1,850	133	349	180	93	48	41
15	65	70	19	27	30	1,600	133	340	201	90	45	40
16	99	62	20	30	35	1,390	134	325	226	88	40	39
17	77	62	25	35	35	1,250	130	280	395	87	39	37
18	122	60	26	32	38	1,120	126	244	945	97	43	36
19	151	58	25	30	40	1,050	125	216	1,820	99	178	35
20	82	77	24	30	100	1,020	125	382	1,080	98	115	34
21	83	109	23	35	200	981	174	322	658	96	146	31
22	92	77	25	34	200	765	121	604	626	96	146	31
23	76	65	30	30	150	364	118	446	383	92	140	30
24	67	58	26	25	100	334	117	305	286	85	134	31
25	63	70	23	20	80	381	113	228	321	79	133	30
26	59	68	20	18	100	685	112	460	397	131	130	31
27	58	63	22	16	200	704	111	294	255	90	129	33
28	58	61	25	15	250	690	117	253	280	87	128	35
29	59	62	26	20	300	664	131	358	217	89	126	51
30	53	45	28	21	-----	645	136	395	186	88	123	175
31	50	-----	30	20	-----	632	-----	327	-----	76	123	-----
TOTAL	3,657	1,977	759	891	2,155	28,870	4,802	9,276	10,873	3,397	2,854	1,530
MEAN	118	65.9	24.5	28.7	74.3	931	160	299	367	110	92.1	51.0
MAX	531	109	34	36	300	2,030	546	604	1,820	162	178	175
MIN	21	45	18	15	18	325	111	133	120	76	39	30
AC-FT	7,250	3,920	1,510	1,770	4,270	57,260	9,520	18,400	21,570	6,740	5,660	3,030
WTR YR 1971	TOTAL 61,809.0		MEAN 169		MAX 1,840		MIN 7.0		AC-FT 122,600			
CAL YR 1972	TOTAL 71,061.0		MEAN 194		MAX 2,030							

CHEYENNE RIVER BASIN

06430000 MURRAY DITCH AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°34'35", long 104°02'58", in SW¼SW¼ sec.7, T.7 N., R.1 E., Butte County, on right bank 15 ft downstream from State line, and 12 miles southwest of Belle Fourche, S. Dak.

PERIOD OF RECORD.--June 1954 to current year (irrigation seasons only prior to October 1959).

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft (from topographic map).

EXTREMES.--Period of record: Maximum daily discharge, 33 cfs Oct. 4-6, 1970; no flow for long periods in each year.

REMARKS.--Records fair. Ditch diverts water from left bank of Redwater Creek, 2 miles upstream, for irrigation of about 700 acres. Flow maintained during irrigation season only.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0								0	1.2	7.9	2.3
2	1.1								0	1.2	8.0	2.3
3	.33								0	1.2	7.9	2.3
4	0								.63	1.2	7.5	2.1
5	0								1.9	1.2	7.0	2.2
6	0								3.0	1.2	6.8	2.3
7	0								2.7	1.3	6.6	2.2
8	0								2.6	1.3	6.6	2.1
9	0								2.6	1.4	7.0	1.8
10	0								2.7	1.4	11	1.5
11	0								2.0	3.4	10	1.1
12	0								1.9	5.2	9.7	.91
13	0								2.0	5.3	9.4	.55
14	0								1.9	5.3	6.7	.35
15	0								1.8	5.4	12	.24
16	0								1.7	5.3	30	.78
17	0								1.7	5.3	22	2.2
18	0								1.7	5.3	23	2.2
19	0								2.2	5.3	13	1.9
20	0								1.8	5.3	1.9	1.7
21	0								1.6	5.2	1.6	1.5
22	0								1.6	5.3	1.5	2.3
23	0								1.5	6.2	1.2	2.1
24	0								1.5	7.3	1.2	2.2
25	0								1.5	7.3	1.2	2.3
26	0								1.4	7.2	1.1	2.0
27	0								1.4	7.2	1.1	1.5
28	0								1.4	7.2	1.1	1.0
29	0								1.3	7.6	.54	.65
30	0								1.3	7.5	1.1	.45
31	0	-----			-----		-----		-----	7.8	2.4	-----
TOTAL	1.43	0	0	0	0	0	0	0	49.33	139.5	228.04	49.03
MEAN	.046	0	0	0	0	0	0	0	1.64	4.50	7.36	1.63
MAX	1.1	0	0	0	0	0	0	0	3.0	7.8	30	2.3
MIN	0	0	0	0	0	0	0	0	0	1.2	.54	.24
AC-FT	2.8	0	0	0	0	0	0	0	98	277	452	97

CAL YR 1971 TOTAL 1,139.54 MEAN 3.12 MAX 28 MIN 0 AC-FT 2,260
WTR YR 1972 TOTAL 467.33 MEAN 1.28 MAX 30 MIN 0 AC-FT 927

CHEYENNE RIVER BASIN

107

06430500 REDWATER CREEK AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°34'26", long 104°02'54", in NW¼NW¼ sec.18, T.7 N., R.1 E., Butte County, on left bank 800 ft downstream from State line, 5.7 miles upstream from Crow Creek, and 12 miles southwest of Belle Fourche, S. Dak.

DRAINAGE AREA.--471 sq mi.

PERIOD OF RECORD.--April 1929 to September 1931 and February 1936 to July 1937 (published as "near Beulah, Wyo."), June 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,410 ft (from topographic map). Apr. 25, 1929, to Sept. 30, 1931, and Feb. 28, 1936, to July 31, 1937, nonrecording gage at site 2 miles upstream at different datum.

AVERAGE DISCHARGE.--20 years (1929-31, 1954-72), 34.8 cfs (25,210 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 251 cfs June 20 (gage height, 4.07 ft); minimum, 16 cfs Aug. 15 (gage height, 1.93 ft).

Period of record: Maximum discharge, 2,340 cfs June 16, 1962 (gage height, 11.95 ft, from floodmark), from rating curve extended above 940 cfs on basis of slope-area measurement of peak flow; no flow Aug. 13-15, 1929.

REMARKS.--Records good except those for winter periods, which are fair. Large diversions for irrigation above station. Total flow passing State line may be obtained by adding flow of Murray ditch. (See sta 06430000.)

REVISIONS (WATER YEARS).--WSP 1309: 1931(M), 1936-37(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	44	41	40	41	41	41	48	84	61	45	46
2	53	44	40	41	40	38	42	49	75	63	50	46
3	48	43	41	40	40	38	42	50	71	64	50	46
4	45	44	41	40	40	36	41	55	66	62	49	46
5	44	43	41	40	40	36	41	72	60	61	48	46
6	42	43	41	40	39	40	41	70	55	60	48	46
7	44	43	41	40	39	42	43	72	54	60	48	46
8	43	43	40	41	39	39	43	68	54	61	49	46
9	43	43	41	41	39	39	42	64	58	59	49	46
10	43	43	41	41	38	40	41	82	95	57	50	45
11	43	43	40	41	38	42	41	137	91	53	50	46
12	43	43	40	40	38	45	42	137	73	49	50	47
13	43	43	40	39	40	44	43	138	113	49	50	46
14	45	44	40	38	39	44	43	128	81	48	50	46
15	46	43	40	40	38	42	43	104	72	48	42	46
16	45	45	39	41	41	41	43	84	84	48	32	44
17	45	44	39	41	41	40	43	77	76	48	32	42
18	46	42	41	41	38	40	42	70	71	48	34	42
19	46	42	41	40	38	40	42	68	155	50	67	41
20	45	43	41	40	45	40	44	102	178	49	61	40
21	42	43	41	42	45	40	43	88	103	49	54	41
22	40	43	41	41	39	39	42	75	90	48	52	41
23	40	43	42	41	40	39	41	69	82	45	51	42
24	41	43	41	40	39	42	41	68	75	53	51	42
25	42	43	40	38	37	42	41	63	81	50	50	43
26	43	43	40	35	36	42	43	68	71	46	50	43
27	45	43	40	35	37	43	45	62	66	45	49	44
28	45	43	40	38	42	41	54	65	64	47	49	43
29	44	43	41	40	56	40	52	105	63	45	49	44
30	45	42	40	44	-----	40	49	101	61	44	47	44
31	44	-----	40	42	-----	41	-----	93	-----	44	46	-----
TOTAL	1,366	1,244	1,255	1,241	1,162	1,256	1,294	2,532	2,422	1,614	1,502	1,326
MEAN	44.1	43.1	40.5	40.0	40.1	40.5	43.1	81.7	80.7	52.1	48.5	44.2
MAX	53	45	42	44	56	45	54	138	178	64	67	47
MIN	40	42	39	35	36	36	41	48	54	44	32	40
AC-FT	2,710	2,570	2,490	2,460	2,300	2,490	2,570	5,020	4,800	3,200	2,980	2,630

CAL YR 1971 TOTAL 17,552 MEAN 48.1 MAX 224 MIN 11 AC-FT 34,810
WTR YR 1972 TOTAL 18,264 MEAN 49.9 MAX 178 MIN 32 AC-FT 36,230

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.T.	DISCHARGE
5-11	1915	3.53	160
6-13	0130	3.60	172
6-20	0430	4.07	251

NIOBRARA RIVER BASIN

06454000 NIOBRARA RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 42°39'33", long 104°03'54", in SW¼ sec.15, T.31 N., R.60 W., Niobrara County, Wyo., on left bank 0.2 mile downstream from Van Tassel Creek, 0.3 mile upstream from Wyoming-Nebraska State line, and 3 miles east of Van Tassel, Wyo.

DRAINAGE AREA.--450 sq mi, approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,687.70 ft above mean sea level, datum of 1956.

AVERAGE DISCHARGE.--17 years, 4.35 cfs (3,150 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 500 cfs Feb. 27 (gage height, 5.89 ft); minimum daily, 1.8 cfs July 28.

Period of record: Maximum discharge, 800 cfs July 17, 1969 (gage height, 6.92 ft in gage well, 6.75 ft from floodmarks), from rating curve extended above 63 cfs on basis of computation of peak flow through culvert and over road; minimum daily, 1.4 cfs Sept. 12-16, 20, 1959, July 26, 27, 1961, Aug. 20, 1964, Aug. 20, 22, 24, 1968.

REMARKS.--Records fair. Diversions for irrigation of about 4,700 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.2	3.1	3.8	2.9	9.9	3.4	3.5	2.3	3.0	4.5	4.7
2	3.3	3.4	3.2	3.6	2.8	8.9	3.4	3.3	2.3	3.3	3.7	3.6
3	3.2	3.4	3.2	3.8	2.7	11	3.7	3.1	2.8	3.4	3.6	3.6
4	3.2	3.8	3.0	4.0	2.7	8.0	3.7	3.1	3.8	3.4	3.5	4.6
5	3.2	3.7	3.0	3.7	2.7	7.1	3.8	3.1	11	3.4	3.1	3.4
6	3.2	3.6	3.1	3.5	2.6	7.0	3.8	3.0	9.9	3.3	2.8	3.6
7	3.1	3.7	3.1	3.4	2.7	6.6	3.7	3.0	6.2	3.3	2.4	3.2
8	3.2	4.1	2.8	3.4	2.7	6.4	3.7	2.9	5.6	3.3	2.2	3.0
9	3.8	4.8	2.7	3.5	2.7	6.3	3.6	3.7	4.7	3.1	2.2	3.0
10	3.7	4.5	2.8	3.4	2.5	6.2	3.4	3.8	4.6	2.9	2.1	3.0
11	3.5	4.0	2.7	3.6	2.5	6.0	3.5	4.6	4.0	2.8	2.0	3.0
12	3.4	3.8	3.0	3.4	2.5	6.0	3.5	4.7	4.2	2.5	1.9	2.9
13	3.6	3.8	3.2	3.4	2.7	5.9	3.4	4.8	4.5	2.4	1.9	2.8
14	3.5	3.5	3.2	3.1	2.5	5.5	3.7	4.4	4.1	2.4	2.1	2.9
15	3.7	3.4	3.8	3.0	3.1	5.2	3.6	3.6	3.9	2.3	2.3	2.9
16	3.8	3.3	3.6	2.8	5.0	5.1	3.4	3.4	4.4	2.2	2.4	2.8
17	4.0	3.2	3.2	2.8	6.0	5.1	3.4	3.2	4.5	3.5	2.4	2.8
18	4.5	3.0	3.1	3.0	4.6	4.6	3.4	3.3	4.5	2.9	2.4	2.8
19	3.9	3.2	3.1	3.0	4.4	4.1	3.4	3.5	4.0	2.8	2.5	2.8
20	3.7	3.2	2.9	3.0	4.6	4.1	3.5	3.8	3.8	3.1	2.8	2.8
21	3.6	3.1	3.0	3.4	5.2	3.8	3.5	3.5	4.6	3.1	2.5	2.7
22	3.6	3.2	2.9	3.3	5.2	3.6	3.4	3.6	5.0	2.7	2.6	2.7
23	3.7	3.2	3.2	3.6	5.4	3.6	3.3	3.5	5.1	2.3	2.7	2.7
24	3.6	3.2	3.4	3.6	5.2	3.7	3.3	3.5	4.6	2.2	2.7	2.7
25	3.5	3.3	3.3	3.6	9.6	3.6	3.3	3.3	4.0	2.0	2.7	2.8
26	3.6	3.2	3.6	3.2	9.2	3.4	4.2	3.2	3.5	2.2	2.9	2.8
27	3.7	3.1	3.5	3.1	58	3.3	4.9	3.2	3.4	2.0	2.8	2.9
28	3.4	3.1	3.4	3.0	227	3.3	5.1	3.1	3.2	1.8	2.8	2.8
29	3.2	3.0	3.6	3.1	68	3.4	5.0	2.9	3.0	2.6	2.8	2.8
30	3.1	3.2	3.6	2.9	-----	3.4	4.0	2.7	2.9	3.5	2.9	2.9
31	3.1	-----	3.6	2.8	-----	3.4	-----	2.5	-----	4.1	2.8	-----
TOTAL	108.8	104.2	98.9	102.8	457.7	167.5	111.0	106.8	134.4	87.8	83.0	92.0
MEAN	3.51	3.47	3.19	3.32	15.8	5.40	3.70	3.45	4.48	2.83	2.68	3.07
MAX	4.5	4.8	3.8	4.0	227	11	5.1	4.8	11	4.1	4.5	4.7
MIN	3.1	3.0	2.7	2.8	2.5	3.3	3.3	2.5	2.3	1.8	1.9	2.7
AC-FT	216	207	196	204	908	332	220	212	267	174	165	182

CAL YR 1971 TOTAL 1,603.3 MEAN 4.39 MAX 18 MIN 1.7 AC-FT 3,180
WTR YR 1972 TOTAL 1,654.9 MEAN 4.52 MAX 227 MIN 1.8 AC-FT 3,280

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G.HT.	DISCHARGE
2-27	2230	5.89	500
2-28	2000	5.13	353

NIORARA RIVER BASIN

109

06454100 NIOBRARA RIVER AT AGATE, NEBR.

LOCATION.--Lat 42°25'22", long 103°47'28", in SW¼ sec.6, T.28 N., R.55 W., Sioux County, on right bank 10 ft upstream from timber farm-vehicle bridge, 300 ft upstream from bridge on State Highway 29, 0.2 mile north-west of Agate, and 14.5 miles upstream from Whistle Creek.

DRAINAGE AREA.--840 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,440 ft (from topographic map). Prior to Nov. 3, 1960, non-recording gage at present site and datum.

AVERAGE DISCHARGE.--15 years, 14.8 cfs (10,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 96 cfs Mar. 2 (gage height, 4.24 ft); minimum daily, 5.4 cfs June 30.

Period of record: Maximum discharge, 181 cfs June 23, 1959 (gage height, 5.00 ft, from floodmark); minimum daily, 1.8 cfs Apr. 4, 1968, result of freezeup.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions for irrigation of about 6,700 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	18	18	17	15	46	13	16	10	5.9	11	9.4
2	8.9	18	17	17	14	82	13	17	11	7.0	11	10
3	8.4	18	18	14	14	57	16	14	11	7.2	11	11
4	8.4	18	17	14	13	37	14	14	13	7.0	11	13
5	8.4	18	17	14	14	28	14	14	15	6.4	11	13
6	8.4	18	18	14	15	27	14	14	8.4	6.4	10	15
7	8.4	17	15	14	15	25	14	13	9.5	6.4	9.9	18
8	8.2	17	13	18	16	25	14	13	7.6	6.2	9.6	16
9	8.4	17	16	17	16	25	14	13	7.2	6.2	9.6	15
10	8.4	17	17	15	16	25	13	13	9.8	6.0	9.7	14
11	8.4	17	14	16	16	24	13	15	8.2	6.0	9.6	14
12	8.2	18	15	15	16	16	8.2	14	7.6	6.0	9.7	14
13	8.2	18	16	14	17	20	7.5	13	7.9	6.2	9.2	14
14	8.4	18	14	11	17	17	8.6	13	9.3	6.4	9.2	13
15	8.0	18	15	13	18	21	9.1	13	8.3	7.0	9.4	13
16	8.2	18	15	14	19	19	8.6	14	6.8	10	10	13
17	8.4	18	14	16	19	19	8.0	13	6.6	11	10	12
18	10	17	17	15	19	19	7.5	11	6.6	13	10	12
19	9.6	16	17	16	20	19	7.0	11	6.6	11	9.7	12
20	9.1	19	18	16	20	19	6.6	11	6.6	10	9.6	12
21	8.6	19	19	16	22	17	6.4	11	6.6	9.8	9.3	12
22	8.4	19	18	17	22	17	6.0	11	6.5	9.6	8.8	12
23	8.2	19	20	17	23	17	5.7	7.9	7.3	9.6	8.8	13
24	8.2	19	19	17	22	17	5.5	8.0	7.5	9.6	8.5	13
25	8.0	18	20	12	23	15	13	7.8	7.0	10	8.5	13
26	7.7	18	19	12	23	15	16	7.5	6.5	11	8.4	13
27	7.7	18	16	12	25	16	17	9.0	6.3	11	8.5	13
28	9.6	18	16	12	26	15	16	7.8	6.2	10	8.2	13
29	18	19	20	12	29	13	16	7.8	5.8	10	8.1	13
30	18	18	17	13	-----	14	16	7.8	5.4	10	7.7	13
31	18	-----	17	14	-----	13	-----	7.8	-----	11	7.7	-----
TOTAL	291.0	538	522	454	544	739	340.7	362.4	242.1	262.9	292.7	391.4
MEAN	9.39	17.9	16.8	14.6	18.8	23.8	11.4	11.7	8.07	8.48	9.44	13.0
MAX	18	19	20	18	29	82	17	17	15	13	11	18
MIN	7.7	16	13	11	13	13	5.5	7.5	5.4	5.9	7.7	9.4
AC-FT	577	1,070	1,040	901	1,080	1,470	676	719	480	521	581	776

CAL YR 1971 TOTAL 6,180.0 MEAN 16.9 MAX 104 MIN 7.7 AC-FT 12,260
WTR YR 1972 TOTAL 4,980.2 MEAN 13.6 MAX 82 MIN 5.4 AC-FT 9,880

PEAK DISCHARGE (BASE, 35 CFS)

DATE TIME G.H.T. DISCHARGE

3- 2 0330 4.24 96

NOTE.--No gage-height record May 4-9, June 22 to July 23.

PLATTE RIVER BASIN

06620000 NORTH PLATTE RIVER NEAR NORTHGATE, COLO.

LOCATION.--Lat 40°56'10", long 106°20'21", in SW¼SE¼ sec.11, T.11 N., R.80 W., Jackson County, on right bank 350 ft downstream from bridge on State Highway 125, 0.8 mile upstream from Camp Creek, 4.2 miles northwest of Northgate, and 4.4 miles south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 sq mi.

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 7,810.39 ft above mean sea level. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918, to Aug. 21, 1961, water-stage recorder, at site 0.8 mile downstream at datum 3.36 ft lower.

AVERAGE DISCHARGE.--57 years, 431 cfs (312,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,090 cfs June 11 (gage height, 5.60 ft); minimum daily, 54 cfs Dec. 19-21.

Period of record: Maximum discharge, 6,720 cfs June 11, 1923 (gage height 6.24 ft, site and datum then in use); maximum gage height recorded, 8.84 ft Apr. 9, 1962 (ice jam); minimum daily discharge, 19 cfs July 17-19, 1934.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows above station. Transbasin diversions above station to Cache la Poudre River basin (see page 158). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1310: 1916-21, 1929(M), 1930-32. WSP 1730: Drainage area.

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

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	160	155	70	70	140	239	628	885	450	183	135
2	151	160	150	66	70	140	260	552	1,010	417	177	195
3	151	160	140	66	70	140	240	480	1,210	390	189	199
4	162	165	135	66	75	135	250	498	1,440	350	199	186
5	165	165	125	66	75	135	260	588	1,710	345	192	171
6	165	170	115	70	80	155	314	795	2,130	336	205	168
7	162	170	105	76	80	190	370	1,020	2,180	332	186	183
8	162	175	95	80	80	220	370	1,000	2,210	322	165	171
9	159	180	80	80	78	240	412	894	2,510	292	157	165
10	168	180	72	80	75	250	434	804	2,820	264	148	157
11	162	185	68	80	75	250	439	750	2,990	250	138	159
12	159	190	66	76	75	240	559	696	2,570	250	128	157
13	151	195	64	72	75	240	741	644	2,120	236	121	146
14	148	185	60	72	80	230	628	573	1,820	218	114	126
15	146	175	58	72	80	225	510	504	1,560	192	112	117
16	143	170	56	76	80	250	462	510	1,410	183	112	105
17	146	170	56	76	80	300	462	580	1,410	189	119	99
18	154	170	55	76	80	300	462	660	1,510	186	121	90
19	159	170	54	76	80	280	450	678	1,480	215	128	86
20	171	170	54	76	85	280	422	714	1,290	199	135	94
21	180	170	54	76	95	330	395	723	1,080	212	135	112
22	202	170	58	76	100	400	390	813	921	208	126	121
23	208	170	64	74	110	474	390	876	840	195	124	121
24	205	170	70	74	115	390	395	696	840	189	128	112
25	202	170	72	74	120	385	474	566	795	192	140	103
26	192	170	74	72	120	370	573	531	644	218	138	97
27	183	170	76	70	115	288	588	566	559	232	133	97
28	192	165	76	70	115	288	492	636	498	239	124	99
29	186	165	76	70	120	222	450	714	474	236	117	110
30	170	165	76	68	-----	239	504	759	486	212	114	112
31	160	-----	74	68	-----	260	-----	822	-----	192	112	-----
TOTAL	5,207	5,150	2,533	2,264	2,553	7,986	12,937	21,270	43,402	7,941	4,420	3,993
MEAN	168	172	81.7	73.0	88.0	258	431	686	1,447	256	143	133
MAX	208	195	155	80	120	474	741	1,020	2,990	450	205	199
MIN	143	160	54	66	70	135	239	480	474	183	112	86
AC-FT	10,330	10,220	5,020	4,490	5,060	15,840	25,660	42,190	86,090	15,750	8,770	7,920
CAL YR 1971	TOTAL	198,743	MEAN	545	MAX	2,700	MIN	54	AC-FT	394,200		
WTR YR 1972	TOTAL	119,656	MEAN	327	MAX	2,990	MIN	54	AC-FT	237,300		

PLATTE RIVER BASIN

111

06621000 DOUGLAS CREEK NEAR FOXPARK, WYO.

LOCATION.--Lat 41°04'52", long 106°18'25", in NE¼SE¼ sec.19, T.13 N., R.79 W., Albany County, Medicine Bow National Forest, on left bank 0.8 mile downstream from Pelton Creek and 8 miles west of Foxpark.

DRAINAGE AREA.--120 sq mi. Area at mouth, 153 sq mi.

PERIOD OF RECORD.--July 1946 to October 1971, May to September 1972 (discontinued).

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

AVERAGE DISCHARGE (unadjusted).--25 years (1946-71), 78.7 cfs (57,020 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 615 cfs June 5 (gage height, 3.24 ft); minimum daily during period of operation, 3.6 cfs Aug. 14.

Period of record: Maximum discharge, 1,630 cfs June 7, 1957 (gage height, 4.66 ft); minimum daily, 2.3 cfs Aug. 26, 27, Sept. 6, 7, 1967.

REMARKS.--Records good. Flow regulated by Rob Roy Reservoir (capacity, 8,900 acre-ft). Transbasin diversions above station to Lake Owen for municipal use by cities of Cheyenne and Laramie began November 1963.

REVISIONS.--WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12							90	422	24	5.9	12
2	13							95	394	19	5.5	14
3	15							95	468	18	6.3	13
4	16							100	450	18	6.5	10
5	15							100	540	16	6.5	7.4
6	13							100	495	16	5.9	7.7
7	12							100	410	16	4.8	7.9
8	11							110	382	14	4.4	7.2
9	11							122	338	17	5.1	6.5
10	10							125	298	18	4.7	7.0
11	10							123	270	17	4.1	8.5
12	9.6							108	235	22	4.1	7.7
13	9.3							104	218	16	3.9	6.7
14	9.5							104	194	13	3.6	6.0
15	9.5							121	171	9.9	3.7	5.8
16	9.9							140	156	9.2	3.8	5.6
17	12							138	142	9.0	3.9	5.3
18	14							148	138	8.5	4.6	5.2
19	13							162	138	7.9	4.9	5.9
20	15							177	112	8.6	5.6	6.9
21	13							208	94	8.4	4.6	6.9
22	13							212	85	7.7	4.3	6.8
23	14							215	78	7.2	4.4	6.6
24	13							310	68	6.9	9.9	6.9
25	12							350	60	7.0	8.7	7.2
26	11							374	58	7.1	7.4	7.4
27	12							382	59	7.8	7.4	7.5
28	12							398	53	7.6	6.2	11
29	11							398	52	6.5	6.7	15
30	10							402	52	5.6	6.8	13
31	9.0	-----			-----		-----	418	-----	5.6	5.8	-----
TOTAL	369.8							6,029	6,630	374.5	170.0	244.6
MEAN	11.9							194	221	12.1	5.48	8.15
MAX	16							418	540	24	9.9	15
MIN	9.0							90	52	5.6	3.6	5.2
AC-FT	734							11,960	13,150	743	337	485

PLATTE RIVER BASIN

06622700 NORTH BRUSH CREEK NEAR SARATOGA, WYO.

LOCATION.--Lat 41°22'10", long 106°31'22", in NE¼SE¼NW¼ sec.8, T.16 N., R.81 W., Carbon County, Medicine Bow National Forest, on left bank 10 ft downstream from logging road bridge, 0.7 mile downstream from Lincoln Creek, 1.6 miles upstream from South Brush Creek, and 16 miles southeast of Saratoga.

DRAINAGE AREA.--37.4 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,020 ft (from topographic map). Prior to June 17, 1971, at site 110 ft downstream at different datum. June 17 to Sept. 21, 1971, at site 10 ft downstream at present datum.

AVERAGE DISCHARGE.--12 years, 51.8 cfs (37,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 448 cfs June 3 (gage height, 3.52 ft); minimum daily, 6.4 cfs Feb. 3.

Period of record: Maximum discharge, 1,120 cfs June 7, 1964 (gage height, 5.75 ft, site and datum then in use), from rating curve extended above 480 cfs; minimum daily, 5.0 cfs Aug. 25, 1971.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	8.7	10	7.4	8.6	15	22	353	66	12	21
2	13	13	8.4	9.6	7.0	8.6	16	22	364	56	14	13
3	16	12	9.4	8.4	6.4	8.6	14	22	404	49	13	11
4	16	13	9.0	7.5	6.7	8.6	13	29	404	44	12	9.4
5	21	14	9.0	7.2	6.9	8.8	13	40	372	38	12	10
6	24	13	9.0	7.4	7.2	8.8	15	44	350	33	10	30
7	20	13	9.0	7.8	7.3	9.0	14	42	350	32	9.7	15
8	18	13	8.4	7.8	7.4	9.4	14	54	346	40	9.4	11
9	15	13	8.4	7.8	7.2	10	14	70	350	38	9.7	9.7
10	16	14	8.7	7.8	7.0	10	15	73	332	38	9.0	11
11	15	14	9.0	7.5	6.8	10	20	64	332	34	8.7	14
12	14	14	9.0	7.4	7.2	10	22	56	314	32	8.7	11
13	14	14	9.0	7.3	7.2	10	16	52	294	26	8.2	9.0
14	14	13	8.7	7.5	7.0	11	15	51	272	23	8.7	8.4
15	14	12	9.0	7.5	7.2	10	14	68	249	20	9.0	8.2
16	13	13	9.0	7.8	7.4	11	14	98	252	18	8.7	7.9
17	20	12	9.4	7.7	7.6	11	16	128	252	16	8.7	7.6
18	23	11	9.6	8.0	7.8	11	18	201	228	15	9.4	7.9
19	18	9.4	10	8.0	7.8	11	17	262	234	14	10	8.2
20	19	9.6	10	8.0	7.7	10	16	294	186	15	11	11
21	18	9.4	10	8.0	8.0	12	14	322	162	13	9.7	9.7
22	18	9.4	11	8.0	8.2	14	13	300	158	12	9.4	9.0
23	17	8.8	11	7.7	8.4	13	15	283	158	11	9.0	8.7
24	17	8.7	11	7.4	8.4	13	20	290	148	11	10	8.7
25	18	8.6	11	7.4	8.2	12	27	311	125	11	9.4	11
26	16	8.8	11	7.4	8.0	12	23	332	109	12	8.4	12
27	15	9.0	10	7.4	8.2	15	23	328	98	12	8.2	11
28	14	9.0	10	7.4	8.4	14	23	336	90	12	7.9	18
29	13	9.0	10	7.2	8.6	14	26	332	80	11	11	20
30	13	9.0	10	7.2	-----	14	25	342	76	10	11	16
31	12	-----	9.8	7.6	-----	14	-----	353	-----	11	9.7	-----
TOTAL	506	342.7	294.5	240.7	218.6	342.4	520	5,221	7,442	773	305.6	358.4
MEAN	16.3	11.4	9.50	7.76	7.54	11.0	17.3	168	248	24.9	9.86	11.9
MAX	24	14	11	10	8.6	15	27	353	404	66	14	30
MIN	12	8.6	8.4	7.2	6.4	8.6	13	22	76	10	7.9	7.6
AC-FT	1,000	680	584	477	434	679	1,030	10,360	14,760	1,530	606	711

CAL YR 1971 TOTAL 26,129.1 MEAN 71.6 MAX 721 MIN 5.0 AC-FT 51,830
WTR YR 1972 TOTAL 16,564.9 MEAN 45.3 MAX 404 MIN 6.4 AC-FT 32,860

PEAK DISCHARGE (BASE, 350 CFS)

NOTE.--No gage-height record Nov. 1 to Mar. 22.

DATE TIME G.H.T. DISCHARGE
6- 3 2030 3.52 448

PLATTE RIVER BASIN

113

06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WYO.

LOCATION.--Lat 41°20'38", long 106°31'33", in NE¼NW¼ sec.20, T.16 N., R.81 W., Carbon County, Medicine Bow National Forest, on left bank 300 ft upstream from culvert on State Highway 130, 1.6 miles upstream from North Brush Creek, and 17 miles southeast of Saratoga.

DRAINAGE AREA.--22.8 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,100 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 31.8 cfs (23,040 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 299 cfs June 4 (gage height, 3.42 ft); minimum daily, 3.7 cfs Feb. 3.

Period of record: Maximum discharge, 559 cfs June 10, 1965 (gage height, 4.09 ft); minimum daily, 0.8 cfs Aug. 15-20, 28, 29, 1963.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Transbasin diversion 0.3 mile above station for irrigation in North Brush Creek basin.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	9.0	5.8	6.8	4.5	4.8	6.6	12	153	41	24	14
2	8.8	9.0	5.6	6.4	4.0	4.8	7.0	13	155	36	27	8.5
3	12	8.6	5.6	5.6	3.7	4.8	6.8	13	199	33	22	7.3
4	12	9.0	6.0	5.0	3.9	4.8	6.8	14	230	28	21	6.0
5	15	9.2	6.0	4.8	4.0	4.9	7.4	14	227	25	21	6.2
6	16	8.8	6.0	5.0	4.2	4.9	8.2	15	186	29	19	15
7	14	8.3	6.0	5.2	4.3	5.0	8.0	15	189	35	17	8.8
8	12	8.6	5.6	5.2	4.3	5.4	8.0	16	195	32	17	6.9
9	10	8.8	5.6	5.2	4.2	5.8	8.0	21	208	30	16	5.9
10	9.6	8.9	5.8	5.2	4.1	6.0	8.5	24	176	29	15	7.4
11	9.8	9.0	6.0	5.0	4.0	6.0	9.0	22	199	28	14	8.3
12	9.7	9.2	6.0	5.0	4.2	6.0	9.0	20	194	30	13	6.2
13	9.5	9.2	6.0	4.9	4.2	6.0	9.0	19	182	26	12	5.4
14	9.4	8.6	5.8	5.0	4.1	6.2	8.8	20	160	25	10	4.8
15	9.2	8.2	6.0	5.0	4.2	6.0	8.6	28	142	24	10	4.6
16	9.1	8.5	6.0	5.2	4.3	6.4	9.4	44	139	23	9.5	4.4
17	12	7.9	6.2	5.2	4.4	6.6	10	66	131	22	9.3	4.2
18	14	7.1	6.4	5.4	4.5	6.6	11	80	120	20	8.7	4.1
19	12	6.0	6.6	5.5	4.5	6.6	10	94	123	19	10	4.6
20	13	6.2	7.0	5.5	4.4	6.4	11	107	94	20	10	7.2
21	13	6.2	6.8	5.5	4.6	6.4	11	90	84	19	8.0	5.2
22	12	6.2	7.0	5.4	4.6	6.8	11	69	77	18	7.2	4.8
23	12	5.8	7.2	5.2	4.6	7.0	12	63	81	17	7.1	4.6
24	12	5.6	7.4	5.0	4.5	6.8	13	67	76	16	8.5	4.5
25	12	5.6	7.4	5.0	4.4	6.7	13	75	66	15	7.2	6.4
26	11	5.8	7.4	5.0	4.4	6.7	11	81	59	15	6.3	6.8
27	10	6.0	7.0	4.8	4.5	6.4	9.7	87	54	16	6.0	5.9
28	11	6.0	7.0	4.6	4.7	6.2	10	100	52	15	5.6	9.1
29	10	6.0	6.8	4.6	4.7	6.4	10	103	50	15	7.5	10
30	9.0	6.0	6.8	4.3	-----	6.4	12	114	48	13	7.9	9.7
31	8.3	-----	6.6	4.4	-----	6.4	-----	136	-----	14	6.1	-----
TOTAL	347.0	227.3	197.4	159.9	125.0	186.2	283.8	1,642	4,049	728	382.9	206.8
MEAN	11.2	7.58	6.37	5.16	4.31	6.01	9.46	53.0	135	23.5	12.4	6.89
MAX	16	9.2	7.4	6.8	4.7	7.0	13	136	230	41	27	15
MIN	8.3	5.6	5.6	4.3	3.7	4.8	6.6	12	48	13	5.6	4.1
AC-FT	688	451	392	317	248	369	563	3,260	8,030	1,440	759	410

CAL YR 1971 TOTAL 14,439.1 MEAN 39.6 MAX 379 MIN 3.5 AC-FT 28,640
WTR YR 1972 TOTAL 8,535.3 MEAN 23.3 MAX 230 MIN 3.7 AC-FT 16,930

NOTE.--No gage-height record Nov. 12 to Mar. 22.

PLATTE RIVER BASIN

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WYO.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°01'25", long 106°49'27", in NE¼SW¼ sec.10, T.12 N., R.84 W., Carbon County, Medicine Bow National Forest, on left bank 0.6 mile upstream from Hog Park Creek and 13 miles south of Encampment.

DRAINAGE AREA.--72.7 sq mi. Area at mouth, 265 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,270 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 111 cfs (80,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 825 cfs June 8 (gage height, 4.27 ft); minimum daily, 15 cfs Jan. 4.

Period of record: Maximum discharge, 1,680 cfs about June 13, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 9.5 cfs Dec. 31, 1968.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	28	24	18	16	20	19	80	526	200	35	41
2	43	28	23	18	16	20	21	76	542	184	39	38
3	42	27	22	16	16	20	19	86	546	159	45	35
4	43	28	23	15	16	20	18	100	562	145	40	30
5	44	28	22	17	16	20	20	110	574	132	36	33
6	43	27	22	19	17	20	22	120	582	122	34	55
7	39	26	22	20	20	23	24	130	595	120	31	36
8	38	27	21	21	20	26	26	150	715	117	29	31
9	35	26	21	21	19	27	28	180	800	111	28	29
10	33	27	22	21	18	28	30	200	730	115	29	33
11	33	27	22	20	17	29	34	192	685	120	28	36
12	33	28	21	20	17	29	40	178	670	110	26	28
13	30	28	22	19	17	29	38	154	635	100	24	24
14	29	26	22	20	17	28	39	140	590	91	24	24
15	28	25	22	20	17	26	36	180	562	85	25	23
16	28	26	22	20	17	25	33	210	546	81	26	22
17	28	25	23	20	16	24	35	250	518	76	25	21
18	32	25	23	20	16	25	38	284	506	67	25	21
19	31	24	24	20	16	27	39	350	498	62	31	26
20	29	24	24	20	17	25	37	392	423	58	31	29
21	30	25	24	20	18	24	37	450	402	58	29	24
22	31	25	24	20	18	25	38	420	386	48	33	22
23	30	25	23	20	16	26	37	370	383	42	36	20
24	30	24	23	20	17	25	42	360	344	42	38	20
25	30	24	22	20	18	24	52	368	311	40	34	22
26	31	23	22	20	19	23	66	406	288	36	30	20
27	30	24	21	18	20	21	62	389	268	43	28	20
28	30	24	20	16	20	21	84	386	245	39	27	29
29	28	25	19	16	20	20	82	389	228	39	34	33
30	27	25	18	16	-----	22	80	420	215	34	31	28
31	25	-----	17	16	-----	21	-----	474	-----	33	27	-----
TOTAL	1,032	774	680	587	507	743	1,176	7,994	14,875	2,709	958	851
MEAN	33.3	25.8	21.9	18.9	17.5	24.0	39.2	258	496	87.4	30.9	29.4
MAX	49	28	24	21	20	29	84	474	800	200	45	55
MIN	25	23	17	15	16	20	18	76	215	33	24	20
AC-FT	2,050	1,540	1,350	1,160	1,010	1,470	2,330	15,860	29,500	5,370	1,900	1,670
CAL YR 1971	TOTAL 55,496	MEAN 152	MAX 1,130	MIN 17	AC-FT 110,100							
WTR YR 1972	TOTAL 32,886	MEAN 89.9	MAX 800	MIN 15	AC-FT 65,230							

PEAK DISCHARGE (BASE, 750 CFS)

DATE TIME G.H.T. DISCHARGE
6- 8 2130 4.27 825

NOTE.--No gage-height record Oct. 13 to Jan. 20,
Mar. 10 to May 24, July 12 to Aug. 24.

06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WYO.

LOCATION.--Lat 41°18'12", long 106°42'53", in NE¼NW¼ sec.3, T.15 N., R.83 W., Carbon County, on left bank 0.5 mile upstream from mouth and 8 miles northeast of Encampment.

DRAINAGE AREA.--265 sq mi.

PERIOD OF RECORD.--April 1940 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (from topographic map). Prior to June 28, 1961, water-stage recorder at site 660 ft upstream at datum 2.00 ft higher.

AVERAGE DISCHARGE.--32 years, 236 cfs (171,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,690 cfs June 9 (gage height, 6.32 ft); minimum daily, 27 cfs Aug. 13, 14.

Period of record: Maximum discharge, 4,510 cfs June 1, 1943 (gage height, 8.25 ft, site and datum then in use); maximum gage height, 8.33 ft June 4, 1952, site and datum then in use; minimum daily discharge, 5.2 cfs Aug. 15, 16, 1940.

REMARKS.--Records good except those for winter period, which are poor. Five small reservoirs above station for irrigation (total capacity, about 400 acre-ft). Slight regulation by Hog Park Creek Reservoir (capacity, about 2,970 acre-ft). Diversions for irrigation of about 8,800 acres above station. Transbasin diversion above station into Hog Park Creek (tributary to Encampment River) from North Fork Little Snake River for municipal, industrial, and irrigation uses began September 1964. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	99	76	72	74	70	63	195	1,480	285	38	68
2	88	90	74	73	70	68	69	187	1,560	267	45	60
3	88	86	72	71	72	70	62	204	1,710	244	52	58
4	101	97	74	66	74	72	59	243	1,800	233	45	50
5	101	92	70	71	76	63	64	313	1,710	217	40	44
6	103	86	72	76	76	66	73	321	1,660	197	38	82
7	97	84	70	74	75	65	78	327	1,760	184	35	88
8	90	88	68	78	76	66	82	373	1,910	149	33	69
9	86	82	68	78	76	70	89	453	2,290	122	31	58
10	84	88	70	76	72	74	95	503	1,950	118	32	42
11	80	86	70	76	70	79	109	488	1,790	115	31	46
12	84	90	68	74	72	82	138	397	1,730	120	29	47
13	82	90	72	72	71	82	127	359	1,560	112	27	37
14	78	80	70	74	70	84	129	337	1,350	100	27	36
15	77	80	72	74	72	77	114	430	1,210	93	29	34
16	77	90	70	76	76	75	107	544	1,150	89	30	32
17	92	82	74	78	76	77	113	593	1,120	84	29	30
18	115	80	78	78	78	78	125	671	1,110	74	29	31
19	99	76	80	80	76	89	126	837	1,130	68	36	36
20	95	78	80	80	76	82	116	934	895	63	36	53
21	101	80	78	80	78	75	115	1,070	788	64	34	46
22	103	82	80	82	78	80	118	987	744	52	35	34
23	97	80	82	80	76	86	113	874	724	46	46	32
24	97	78	84	78	74	81	125	844	660	47	49	30
25	99	78	80	76	72	79	169	842	557	45	49	34
26	101	76	80	78	70	75	209	900	499	39	48	33
27	97	80	78	76	72	66	184	952	436	48	45	32
28	97	77	76	74	74	66	270	1,090	382	43	44	39
29	88	80	75	72	72	61	232	1,150	343	43	48	48
30	84	80	72	70	-----	72	228	1,270	316	37	48	46
31	82	-----	70	72	-----	69	-----	1,370	-----	36	43	-----
TOTAL	2,838	2,515	2,303	2,335	2,144	2,299	3,701	20,058	36,324	3,434	1,181	1,375
MEAN	91.5	83.8	74.3	75.3	73.9	74.2	123	647	1,211	111	38.1	45.8
MAX	115	99	84	82	78	89	270	1,370	2,290	285	52	88
MIN	75	76	68	66	70	61	59	187	316	36	27	30
AC-FT	5,630	4,990	4,570	4,630	4,250	4,560	7,340	39,790	72,050	6,810	2,340	2,730
CAL YR 1971	TOTAL 125,847 MEAN 345 MAX 2,800 MIN 46 AC-FT 249,600											
WTR YR 1972	TOTAL 80,507 MEAN 220 MAX 2,290 MIN 27 AC-FT 159,700											

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE TIME G.H.T. DISCHARGE

6- 9 0400 6.32 2,690

PLATTE RIVER BASIN

06628900 PASS CREEK NEAR ELK MOUNTAIN, WYO.

LOCATION.--Lat 41°35'10", long 106°36'37", in SW¼SW¼ sec.27, T.19 N., R.82 W., Carbon County, on right bank 235 ft downstream from Lone Tree Creek, 1,000 ft upstream from Brush Creek, 12 miles southwest of Elk Mountain, and 14 miles northeast of Saratoga.

DRAINAGE AREA.--91.5 sq mi. Area at mouth, 279 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft (from topographic map). Prior to Oct. 6, 1966, 15 ft downstream at present datum.

AVERAGE DISCHARGE.--15 years, 37.2 cfs (26,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 404 cfs June 8 (gage height, 3.57 ft); minimum daily, 5.9 cfs Aug. 22.

Period of record: Maximum discharge, 854 cfs June 13, 1957 (gage height, 5.21 ft), from rating curve extended above 460 cfs; minimum daily, 1.5 cfs Sept. 11, 12, 1959.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 6,300 acres above station. Diversion to Kerr ditch 7.5 miles upstream.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	13	15	8.2	19	20	45	120	13	25	12
2	18	15	12	15	7.9	14	15	42	143	15	23	12
3	22	15	12	12	6.9	11	25	44	240	20	26	9.1
4	23	16	12	9.0	6.9	11	28	56	258	22	21	7.9
5	21	15	12	8.0	7.9	14	41	76	270	21	19	7.2
6	19	15	13	10	8.6	46	66	80	204	23	15	25
7	18	15	12	11	10	71	48	76	174	25	9.5	14
8	18	15	11	11	11	68	56	102	228	22	7.9	11
9	17	15	10	11	12	80	56	129	226	26	7.9	9.5
10	17	15	11	11	12	79	52	117	162	26	7.9	9.1
11	16	16	12	11	12	74	91	100	134	24	7.2	10
12	16	16	12	11	11	47	110	100	112	23	6.9	9.5
13	16	15	12	10	9.5	45	70	110	97	20	6.3	7.9
14	15	14	12	10	8.2	33	60	77	77	17	6.0	7.9
15	15	14	12	12	9.1	34	39	93	70	21	6.0	7.9
16	15	14	12	13	10	34	45	104	77	22	6.3	6.9
17	21	13	13	13	10	42	56	113	80	21	6.3	6.3
18	29	12	14	14	10	48	59	125	79	22	6.0	6.3
19	23	14	14	14	11	46	51	145	90	20	7.2	6.9
20	21	15	15	14	14	31	37	140	59	23	7.9	8.2
21	21	15	15	14	16	33	34	178	44	22	6.3	8.2
22	20	15	15	14	18	50	31	149	37	19	5.9	8.2
23	18	15	16	14	17	57	37	97	38	18	6.3	8.2
24	18	14	17	13	15	46	54	102	36	18	7.6	7.9
25	18	13	19	12	11	36	71	104	26	19	7.9	12
26	18	12	19	12	11	29	57	125	27	19	6.6	11
27	18	13	18	12	11	30	48	124	21	20	6.3	9.1
28	16	13	18	12	18	26	63	119	17	20	6.0	19
29	17	13	18	10	22	22	79	112	15	17	6.6	15
30	17	13	17	9.5	-----	25	70	110	14	16	7.6	12
31	16	-----	15	8.2	-----	20	-----	120	-----	18	7.2	-----
TOTAL	573	431	433	365.7	335.2	1,221	1,569	3,213	3,175	632	302.6	305.2
MEAN	18.5	14.4	14.0	11.8	11.6	39.4	52.3	104	106	20.4	9.76	10.2
MAX	29	16	19	15	22	80	110	178	270	26	26	25
MIN	15	12	10	8.0	6.9	11	15	42	14	13	5.9	6.3
AC-FT	1,140	855	859	725	665	2,420	3,110	6,370	6,300	1,250	600	605
CAL YR 1971	TOTAL 23,829.0			MEAN 65.3	MAX 493	MIN 7.0	AC-FT 47,260					
WTR YR 1972	TOTAL 12,555.7			MEAN 34.3	MAX 270	MIN 5.9	AC-FT 24,900					

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.T.	DISCHARGE
6- 4	0300	3.20	326
6- 8	2000	3.57	404

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REVISIONS.--WSP 1918: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	416	450	420	420	300	560	500	1,200	3,690	1,270	385	270
2	409	450	400	450	270	540	516	1,200	4,030	1,200	385	275
3	437	480	420	350	270	600	556	1,180	4,490	1,100	388	310
4	465	500	420	250	300	600	540	1,110	5,750	1,010	367	330
5	472	500	400	300	350	650	524	1,130	6,910	930	348	345
6	486	480	440	350	380	700	532	1,330	6,910	867	336	315
7	486	480	440	400	380	800	612	1,540	6,930	813	324	325
8	486	500	400	340	380	800	705	1,790	6,810	768	315	365
9	479	520	400	320	380	800	750	1,860	7,630	750	285	345
10	472	540	420	320	360	850	804	1,860	8,520	696	255	330
11	465	540	420	320	360	903	867	1,840	7,770	636	250	320
12	451	540	420	320	400	970	912	1,810	7,390	572	240	330
13	451	540	420	290	400	990	1,130	1,660	6,710	540	225	330
14	444	520	420	290	400	1,050	1,260	1,560	5,710	524	200	312
15	437	493	420	310	400	1,130	1,180	1,450	4,890	486	180	294
16	430	458	420	310	400	1,080	990	1,460	4,390	486	175	270
17	437	486	460	310	400	1,030	885	1,570	4,090	451	180	240
18	472	420	500	320	450	1,030	894	1,660	4,070	444	175	220
19	508	350	540	350	480	1,040	930	1,900	4,010	437	175	210
20	508	400	580	380	500	1,150	930	2,170	3,790	430	180	205
21	493	450	640	380	500	1,070	867	2,430	3,160	425	210	210
22	493	540	700	380	500	950	831	2,670	2,780	425	210	220
23	508	520	700	380	500	850	795	2,600	2,520	420	210	215
24	524	500	650	360	480	800	795	2,520	2,360	416	210	225
25	532	500	700	360	450	850	822	2,440	2,150	395	240	240
26	540	480	700	380	450	800	1,010	2,370	2,010	395	250	240
27	548	480	600	380	500	650	1,200	2,440	1,810	400	240	235
28	500	460	540	350	560	700	1,220	2,620	1,610	430	225	306
29	450	450	480	350	600	620	1,280	2,960	1,460	450	210	348
30	400	450	430	320	-----	560	1,150	3,100	1,340	450	205	276
31	450	-----	400	300	-----	472	-----	3,330	-----	400	225	-----
TOTAL	14,649	14,477	15,300	10,640	12,100	25,595	25,987	60,760	135,690	19,016	7,803	8,456
MEAN	473	483	494	343	417	826	866	1,960	4,523	613	252	282
MAX	548	540	700	450	600	1,150	1,280	3,330	8,520	1,270	388	365
MIN	400	350	400	250	270	472	500	1,110	1,340	395	175	205
AC-FT	29,060	28,720	30,350	21,100	24,000	50,770	51,550	120,500	269,100	37,720	15,480	16,770
CAL YR 1971	TOTAL 622,669		MEAN 1,706	MAX 9,780		MIN 230	AC-FT 1,235,000					
WTR YR 1972	TOTAL 350,473		MEAN 958	MAX 8,520		MIN 175	AC-FT 695,200					

PLATTE RIVER BASIN

06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WYO.

LOCATION.--Lat 41°35'07", long 106°13'20", in SE¼SW¼ sec.25, T.19 N., R.79 W., Carbon County, on left bank 200 ft upstream from point of diversion to King Canyon Canal, 0.4 mile downstream from Overland Creek, 1.0 mile southwest of Arlington, and 6.9 miles southwest of McFadden.

DRAINAGE AREA.--62.9 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,790 ft (from topographic map).

AVERAGE DISCHARGE.--18 years (1954-72), 79.8 cfs (57,820 acre-ft per year), includes records for station 06632500 Rock Creek at Arlington 1954-65, adjusted for diversion by King Canyon Canal.

EXTREMES.--Current year: Maximum discharge, 1,770 cfs June 4 (gage height, 4.70 ft); minimum daily, 8.0 cfs Feb. 2.

Period of record: Maximum discharge, 2,590 cfs June 19, 1971 (gage height, 5.83 ft); minimum daily, 5.5 cfs Dec. 21, 1967.

REMARKS.--Records good except those for winter period, which are poor. Minor regulation by Sand Lake (capacity, 1,100 acre-ft) on Deep Creek, 12 miles upstream. No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	14	13	10	9.0	12	10	24	754	144	29	32
2	20	14	12	10	8.0	13	10	22	780	128	30	22
3	20	14	12	9.0	8.5	13	10	22	864	115	31	16
4	23	14	12	8.5	9.0	13	10	26	1,050	102	24	17
5	26	14	12	9.0	9.0	13	11	32	1,110	90	22	33
6	24	13	12	10	9.0	13	12	35	913	84	20	50
7	21	13	12	10	9.0	13	12	34	857	78	18	37
8	20	14	11	10	9.0	13	12	35	794	75	17	32
9	17	13	11	10	9.0	13	13	50	920	70	17	31
10	16	13	11	10	8.5	14	14	51	906	69	16	35
11	16	14	11	10	8.5	14	18	51	936	68	15	54
12	15	15	11	10	9.0	15	22	45	936	64	15	51
13	15	15	11	9.0	9.0	14	18	40	843	57	15	48
14	15	14	11	9.0	9.0	14	17	38	685	52	14	46
15	14	14	11	9.0	9.0	14	17	50	601	50	14	44
16	14	14	11	9.5	9.5	14	19	75	584	45	14	39
17	15	13	12	9.5	10	14	20	98	520	43	14	36
18	18	12	12	9.5	11	14	20	137	520	40	13	31
19	14	13	12	9.5	12	15	20	183	546	37	13	24
20	18	14	12	9.5	13	15	20	244	422	36	13	20
21	18	14	12	9.5	13	15	18	326	359	34	13	17
22	17	14	12	9.5	13	15	18	303	338	32	13	15
23	15	14	12	9.5	13	16	16	268	342	32	14	14
24	16	14	12	9.0	13	15	18	306	314	29	19	13
25	16	14	13	9.0	13	15	25	346	261	30	16	15
26	15	13	13	9.5	13	15	24	400	222	28	13	14
27	15	13	12	9.0	13	13	21	404	198	31	14	13
28	14	13	11	9.0	13	11	24	431	183	30	17	18
29	14	13	10	9.0	13	10	24	440	170	27	15	20
30	13	13	10	8.5	-----	10	28	485	160	25	15	17
31	14	-----	10	9.0	-----	10	-----	631	-----	24	14	-----
TOTAL	530	409	359	291.5	305.0	418	521	5,632	18,088	1,769	527	854
MEAN	17.1	13.6	11.6	9.40	10.5	13.5	17.4	182	603	57.1	17.0	28.5
MAX	26	15	13	10	13	16	28	631	1,110	144	31	54
MIN	13	12	10	8.5	8.0	10	10	22	160	24	13	13
AC-FT	1,050	811	712	578	605	829	1,030	11,170	35,880	3,510	1,050	1,690

CAL YR 1971 TOTAL 51,909.0 MEAN 142 MAX 1,690 MIN 6.0 AC-FT 103,000
WTR YR 1972 TOTAL 29,703.5 MEAN 81.2 MAX 1,110 MIN 8.0 AC-FT 58,920

PEAK DISCHARGE (BASE, 700 CFS)

DATE TIME G.H.T. DISCHARGE

6- 4 2200 4.70 1,770

PLATTE RIVER BASIN

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06635000 MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR, NEAR HANNA, WYO.

LOCATION.--Lat 42°00'35", long 106°30'45", in SE¼NW¼ sec.34, T.24 N., R.81 W., Carbon County, on left bank 15 ft downstream from county highway bridge, 2 miles upstream from Troublesome Creek, 9 miles upstream from high-water line of Seminoe Reservoir at elevation 6,357 ft, and 10 miles north of Hanna.

DRAINAGE AREA.--2,338 sq mi, of which 396 sq mi is probably noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 6,415.40 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 164 cfs (118,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, about 1,520 cfs June 7 (gage height, about 3.30 ft); maximum gage height, 4.33 ft Mar. 10 (backwater from ice); minimum daily discharge, 20 cfs Sept. 24.

Period of record: Maximum discharge, 6,590 cfs Mar. 29, 1943 (gage height, 5.23 ft), from rating curve extended above 2,500 cfs; maximum gage height, 6.10 ft Feb. 12, 1962 (backwater from ice); minimum daily discharge, 1.1 cfs Sept. 7-14, 1959, Aug. 7, 1963.

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

Many small reservoirs above station (total capacity, about 6,000 acre-ft) for irrigation. Diversions for irrigation of about 43,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 956: 1941(M). WSP 1440: 1940(M), 1941. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	50	65	54	37	52	115	251	324	138	168	84
2	39	52	62	54	33	56	130	295	354	112	149	67
3	49	56	64	50	34	56	123	263	502	98	148	44
4	45	54	66	44	36	62	121	246	768	90	167	36
5	43	58	64	45	39	70	118	233	1,000	87	141	36
6	42	56	70	46	42	94	116	234	1,150	83	80	41
7	47	58	68	46	42	120	115	270	1,410	85	71	36
8	54	60	64	45	41	150	129	315	1,340	87	60	34
9	55	62	60	46	42	200	145	315	1,160	83	48	32
10	55	64	64	46	42	280	140	364	976	76	43	30
11	55	68	68	45	40	355	143	442	1,010	74	35	36
12	55	70	66	44	43	363	151	551	920	67	33	35
13	55	72	70	40	42	392	155	530	920	62	32	30
14	53	68	66	41	40	362	220	474	912	60	28	26
15	51	68	68	41	44	335	230	430	816	55	27	25
16	50	76	66	41	48	281	205	408	760	55	26	25
17	50	70	64	40	49	244	190	378	696	50	24	22
18	55	64	64	38	50	230	208	403	640	47	23	22
19	55	66	66	40	48	215	205	460	688	44	25	22
20	56	70	70	44	49	208	200	493	572	81	29	22
21	58	74	66	44	50	213	200	508	544	58	22	22
22	60	78	70	44	49	191	184	542	467	55	22	21
23	60	76	74	42	47	171	170	598	406	45	29	21
24	60	76	72	40	45	164	160	533	325	40	380	20
25	60	76	76	39	44	173	154	449	290	36	290	22
26	60	70	74	41	42	166	152	415	280	34	114	22
27	62	74	66	40	45	132	183	376	260	33	64	23
28	58	70	62	38	47	139	204	354	240	32	51	64
29	54	68	58	38	50	130	178	334	208	32	44	51
30	50	67	56	35	-----	125	198	332	163	29	43	43
31	47	-----	52	36	-----	122	-----	325	-----	48	36	-----
TOTAL	1,629	1,991	2,041	1,327	1,260	5,851	4,942	12,121	20,101	1,976	2,452	1,014
MEAN	52.5	66.4	65.8	42.8	43.4	189	165	391	670	63.7	79.1	33.8
MAX	62	78	76	54	50	392	230	598	1,410	138	380	84
MIN	36	50	52	35	33	52	115	233	163	29	22	20
AC-FT	3,230	3,950	4,050	2,630	2,500	11,610	9,800	24,040	39,870	3,920	4,860	2,010

CAL YR 1971 TOTAL 123,531 MEAN 338 MAX 2,000 MIN 27 AC-FT 245,000
WTR YR 1972 TOTAL 56,705 MEAN 155 MAX 1,410 MIN 20 AC-FT 112,500

NOTE.--No gage-height record June 3-13.

PLATTE RIVER BASIN

06635500 SEMINOLE RESERVOIR NEAR LEO, WYO.

LOCATION.--Lat 42°09'21", long 106°54'29", in NW¼NE¼ sec.8, T.25 N., R.84 W., Carbon County, on upstream side near center of dam on North Platte River, 6 miles upstream from high-water line of Pathfinder Reservoir at elevation 5,850.1 ft, and 9 miles southwest of Leo.

DRAINAGE AREA.--11,189 sq mi, of which 4,548 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--February 1939 to current year. Monthend figures only for February, March 1939, October 1940 to September 1950, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 6,190.00 ft above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Prior to Apr. 20, 1939, non-recording gage at same site and datum.

EXTREMES.--Current year: Maximum daily contents, 950,100 acre-ft July 9 (elevation, 6,353.90 ft); minimum daily, 574,900 acre-ft Apr. 13 (elevation, 6,330.21 ft).

Period of record: Maximum daily contents, 1,073,000 acre-ft June 20, 1949 (elevation, 6,359.29 ft); minimum daily (since appreciable storage was attained), 19,040 acre-ft Sept. 1, 1939 (elevation, 6,228.00 ft).

REMARKS.--Reservoir is formed by concrete-arch dam. Storage began Apr. 1, 1939, but some regulation for power development during period Jan. 1 to Mar. 31, 1939. Capacity, 1,011,000 acre-ft below elevation 6,357 ft (top of spillway gates). Figures given herein represent total contents, of which 30,100 acre-ft (capacity below elevation 6,239 ft, minimum operating level for power development) are not available for power development and 325 acre-ft (below elevation 6,185.09 ft, penstock invert) is dead storage. Water is used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

6,330	572,200	6,350	877,900
6,340	712,300	6,354	952,000

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	881,700	846,900	808,800	749,500	684,100	625,600	588,700	584,100	705,900	947,300	937,800	908,500
2	880,900	845,000	807,800	746,400	682,600	622,600	586,900	585,800	714,800	948,200	937,800	907,900
3	879,400	843,200	805,500	744,700	680,200	621,900	585,400	586,900	721,500	948,200	937,400	907,600
4	878,000	841,700	804,300	743,900	678,500	619,600	583,700	588,300	733,800	949,200	937,200	907,200
5	877,300	841,500	802,000	741,200	676,600	618,300	581,700	589,900	748,300	948,800	936,300	906,300
6	875,500	839,900	799,200	738,600	674,700	617,200	579,700	592,000	767,800	949,800	935,900	905,900
7	874,100	838,400	796,200	736,100	672,700	615,800	578,300	595,000	777,100	949,800	934,400	904,600
8	873,200	837,700	795,300	733,800	670,800	614,000	576,700	598,000	791,800	949,400	933,600	903,900
9	872,200	836,100	792,500	731,600	668,100	613,900	576,600	601,600	806,700	950,100	932,700	903,500
10	871,600	835,600	790,300	729,200	666,400	612,400	576,300	605,500	823,800	949,800	931,400	903,000
11	870,600	834,800	788,000	727,700	664,300	611,800	576,100	609,300	839,200	948,400	930,100	902,400
12	869,100	833,900	785,700	726,800	662,800	611,400	575,700	612,400	853,900	948,600	928,400	901,700
13	867,200	833,000	783,900	724,300	660,100	610,600	574,900	617,000	866,600	948,100	927,300	900,800
14	866,100	831,700	781,300	722,500	658,100	610,200	576,100	620,000	877,100	947,100	926,000	900,400
15	863,600	829,200	779,700	719,900	656,400	610,100	576,700	623,300	885,600	946,900	924,600	899,800
16	862,500	829,400	777,500	717,900	654,200	609,500	577,100	626,500	893,600	946,000	923,300	898,900
17	863,300	828,200	776,200	714,800	651,900	608,600	576,300	628,500	900,000	945,400	922,000	897,400
18	862,000	826,500	773,800	713,300	649,400	608,600	575,700	631,000	907,000	945,200	920,500	896,000
19	860,000	824,900	772,000	711,100	647,300	607,100	576,700	634,900	913,600	944,500	920,000	894,500
20	858,800	823,400	769,000	709,000	645,200	606,600	576,700	640,100	919,600	943,900	918,500	892,900
21	857,400	821,400	766,900	707,100	643,000	605,900	577,400	645,600	924,300	943,900	916,800	891,800
22	856,500	820,500	764,900	704,800	641,100	604,600	576,700	650,700	929,300	943,100	915,700	890,500
23	856,000	819,900	763,200	703,000	639,400	604,200	576,700	656,100	933,600	942,400	914,900	889,400
24	856,000	818,300	762,300	701,300	637,000	603,100	577,400	661,100	936,500	942,400	914,400	888,200
25	854,400	816,600	760,300	698,000	635,200	601,400	576,100	666,400	939,500	941,600	914,000	887,100
26	853,000	814,900	759,000	695,800	632,900	600,700	578,000	671,100	941,000	941,000	913,400	886,700
27	851,600	813,400	757,400	694,500	630,900	598,000	579,200	675,600	942,400	940,700	912,700	885,600
28	850,800	812,600	755,800	692,800	628,700	596,400	580,800	680,400	943,700	939,700	912,000	884,900
29	849,400	811,400	754,500	690,400	627,000	594,300	582,600	686,400	945,400	939,300	911,400	883,100
30	849,000	810,000	752,300	689,300	-----	592,600	582,800	692,100	946,000	938,400	910,000	882,400
31	848,100	-----	750,700	686,600	-----	590,600	-----	698,300	-----	938,200	909,000	-----
MAX	881,700	846,900	808,800	749,500	684,100	625,600	588,700	698,300	946,000	950,100	937,800	908,500
MIN	848,100	810,000	750,700	686,600	627,000	590,600	574,900	584,100	705,900	938,200	909,000	882,400
(+)	6,348.32	6,346.10	6,342.47	6,338.28	6,334.11	6,331.41	6,330.82	6,339.07	6,353.68	6,353.27	6,351.71	6,350.25
(+)	-35,900	-38,100	-59,300	-64,100	-59,600	-36,400	-7,800	+115,500	+247,700	-7,800	-29,200	-26,600

CAL YR 1971..... +101,400

WTR YR 1972..... -1,600

† Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

PLATTE RIVER BASIN

121

06637550 SWEETWATER RIVER NEAR SOUTH PASS CITY, WYO.

LOCATION.--Lat 42°22'30", long 108°52'56", in NW¼ sec.28, T.28 N., R.101 W., Fremont County, on left bank 100 ft downstream from small tributary, 0.8 mile downstream from Fog Gulch, 1.2 miles downstream from State Highway 28, and 7.6 miles southwest of South Pass City.

DRAINAGE AREA.--177 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft (from topographic map).

AVERAGE DISCHARGE.--14 years, 64.8 cfs (46,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 982 cfs June 7 (gage height, 7.09 ft); minimum daily, 4.5 cfs Feb. 4.

Period of record: Maximum discharge, 1,150 cfs June 10, 1965 (gage height, 7.53 ft); minimum daily, 1.5 cfs Jan. 3, 1960.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Water rights totaling 13.39 cfs (priorities 1903-12) for irrigation of about 950 acres, adjudicated for diversion above station. Transbasin diversion by Continental Divide ditch diverts water from Little Sandy Creek in sec.25, T.30 N., R.104 W., to land along Lander Creek (tributary to Sweetwater River above station). The appropriation permits total 22.71 cfs, but no discharge records are available.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	23	17	12	4.9	6.7	32	183	741	192	58	30
2	32	21	17	11	4.8	6.6	38	163	765	181	62	35
3	30	20	17	10	4.6	6.4	43	176	747	167	83	33
4	35	21	16	9.5	4.5	6.5	47	225	762	156	67	29
5	40	20	16	9.0	4.6	7.0	56	289	747	147	57	30
6	40	19	15	8.4	4.8	7.4	66	385	786	139	51	69
7	38	20	14	7.8	5.0	7.4	76	520	835	133	47	61
8	36	21	14	7.4	5.4	7.8	80	530	824	128	44	46
9	32	21	13	7.0	5.6	8.5	82	490	753	122	48	40
10	30	22	13	7.0	5.5	9.5	80	445	720	115	44	36
11	28	23	12	7.1	5.4	10	75	371	654	111	41	35
12	26	24	12	6.8	5.4	11	71	321	624	106	40	33
13	25	24	12	6.6	5.3	11	66	307	563	103	38	32
14	24	23	12	6.6	5.3	12	70	337	485	100	37	30
15	24	22	12	6.8	5.2	12	76	435	441	97	37	29
16	25	21	13	7.0	5.3	13	86	515	409	93	36	27
17	28	20	13	7.2	5.7	14	94	570	393	89	35	26
18	33	19	14	7.3	6.3	15	99	582	405	87	33	26
19	30	20	14	7.4	6.8	16	93	606	351	82	36	27
20	27	21	15	7.5	7.2	16	74	675	299	81	40	32
21	29	22	15	7.2	7.1	18	72	648	275	87	35	31
22	30	21	16	6.8	6.9	20	73	579	266	78	32	29
23	28	20	16	6.5	6.7	20	73	513	293	70	32	27
24	29	21	17	6.0	6.5	19	98	505	281	64	39	27
25	37	20	17	5.6	6.4	19	162	508	311	63	39	27
26	39	20	16	5.3	6.5	18	182	513	264	61	34	26
27	34	19	15	5.0	6.7	17	155	503	224	59	30	26
28	30	19	15	4.7	7.0	17	146	548	206	59	28	27
29	26	18	14	4.8	7.0	18	215	597	202	56	26	27
30	23	18	14	5.0	-----	20	249	630	195	53	25	26
31	22	-----	13	5.0	-----	25	-----	684	-----	54	27	-----
TOTAL	942	623	449	221.3	168.4	414.8	2,829	14,353	14,821	3,133	1,281	979
MEAN	30.4	20.8	14.5	7.14	5.81	13.4	94.3	463	494	101	41.3	32.6
MAX	40	24	17	12	7.2	25	249	684	835	192	83	69
MIN	22	18	12	4.7	4.5	6.4	32	163	195	53	25	26
AC-FT	1,870	1,240	891	439	334	823	5,610	28,470	29,400	6,210	2,540	1,940
CAL YR 1971	TOTAL 30,907.7	MEAN 84.7	MAX 612	MIN 5.5	AC-FT 61,310							
WTR YR 1972	TOTAL 40,214.5	MEAN 110	MAX 835	MIN 4.5	AC-FT 79,770							

PEAK DISCHARGE (BASE, 200 CFS)

NOTE.--No gage-height record Dec. 25 to Mar. 14.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-30	0530	4.60	279	5-20	0900	6.27	711
5- 8	0830	5.90	576	6- 7	1200	7.09	982

06637750 ROCK CREEK ABOVE ROCK CREEK RESERVOIR, WYO.

LOCATION.--Lat 42°32'59", long 108°46'26", in NW¼NW¼ sec.27, T.30 N., R.100 W., Fremont County, Shoshone National Forest, on left bank 200 ft upstream from high-water line of Rock Creek Reservoir, 2.7 miles downstream from Little Rock Creek, and 4.3 miles northwest of Atlantic City.

DRAINAGE AREA.--9.2 sq mi, approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,330 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 9.38 cfs (6,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 139 cfs June 7 (gage height, 6.79 ft); minimum daily, 1.7 cfs Feb. 8-11, 18-20.

Period of record: Maximum discharge, 214 cfs June 9, 1965 (gage height, 7.26 ft); maximum gage height, 8.54 ft Apr. 22, 1965 (backwater from ice); minimum daily discharge, 0.5 cfs Jan. 12-14, 1963.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.0	2.2	2.0	1.8	1.8	2.4	7.7	94	15	4.6	4.6
2	3.4	2.9	2.2	2.1	1.8	1.8	2.4	6.9	98	15	5.4	3.4
3	3.6	2.9	2.2	2.1	1.8	1.8	2.5	8.1	99	16	5.5	2.9
4	4.3	2.9	2.2	1.9	1.8	1.8	2.6	11	95	14	4.6	2.7
5	5.2	2.8	2.2	2.0	1.8	1.8	2.9	13	100	13	4.2	3.9
6	5.7	2.6	2.2	2.1	1.8	1.8	3.8	12	102	12	3.9	4.1
7	5.2	2.6	2.2	2.1	1.8	1.8	4.5	15	106	11	3.7	2.9
8	4.3	2.6	2.2	2.0	1.7	1.8	3.8	20	106	9.9	3.9	2.7
9	3.7	2.6	2.2	1.9	1.7	1.9	4.1	23	100	9.2	3.9	2.6
10	3.5	2.7	2.2	1.9	1.7	2.2	4.1	21	91	8.8	3.4	2.5
11	3.4	2.7	2.2	1.9	1.7	2.4	3.6	19	84	8.3	3.2	2.4
12	3.1	2.9	2.2	1.9	1.8	2.3	4.1	18	77	8.1	3.2	2.3
13	2.9	2.8	2.2	1.9	1.8	2.3	3.7	20	68	7.5	3.1	2.3
14	3.0	2.5	2.2	1.8	1.8	2.4	3.0	26	59	7.3	3.0	2.2
15	3.0	2.4	2.1	1.9	1.8	2.2	3.8	35	54	7.3	3.0	2.2
16	3.1	2.3	2.1	1.9	1.8	2.3	3.7	46	51	6.7	2.9	2.2
17	3.7	2.3	2.1	1.9	1.8	2.6	3.9	55	48	6.9	2.9	2.1
18	3.6	2.2	2.1	1.9	1.7	2.9	3.7	64	45	7.1	2.9	2.1
19	2.9	2.3	2.1	1.9	1.7	2.9	3.4	69	39	6.4	3.4	2.4
20	3.2	2.4	2.1	1.9	1.7	2.6	3.2	78	34	7.5	3.1	2.3
21	3.2	2.4	2.1	1.8	1.8	2.5	3.1	80	30	7.5	3.1	2.2
22	3.0	2.4	2.0	1.9	1.8	2.8	3.1	71	32	6.0	3.1	2.1
23	3.1	2.4	2.1	1.8	1.8	3.2	3.4	67	31	5.5	3.7	2.2
24	3.4	2.4	2.1	1.8	1.8	2.9	3.8	71	26	5.4	4.8	2.1
25	4.3	2.4	2.1	1.8	1.8	2.8	4.9	75	26	5.1	3.8	2.1
26	3.5	2.3	2.0	1.8	1.8	2.7	5.1	76	22	4.9	3.2	2.1
27	2.9	2.4	2.1	1.8	1.8	2.6	4.6	78	20	4.9	2.9	2.2
28	2.3	2.4	2.1	1.8	1.8	2.5	4.9	78	19	4.9	2.9	2.2
29	1.9	2.3	2.0	1.8	1.8	2.5	6.4	79	18	4.5	2.7	2.0
30	2.5	2.2	2.0	1.8	-----	2.4	8.1	85	17	4.5	2.7	2.0
31	2.8	-----	2.0	1.8	-----	2.4	-----	89	-----	4.8	3.4	-----
TOTAL	107.3	76.0	66.0	58.9	51.5	72.7	116.6	1,416.7	1,791	255.0	110.1	76.0
MEAN	3.46	2.53	2.13	1.90	1.78	2.35	3.89	45.7	59.7	8.23	3.55	2.53
MAX	5.7	3.0	2.2	2.1	1.8	3.2	8.1	89	106	16	5.5	4.6
MIN	1.9	2.2	2.0	1.8	1.7	1.8	2.4	6.9	17	4.5	2.7	2.0
AC-FT	213	151	131	117	102	144	231	2,810	3,550	506	218	151

CAL YR 1971 TOTAL 4,550.5 MEAN 12.5 MAX 112 MIN 1.4 AC-FT 9,030
WTR YR 1972 TOTAL 4,197.8 MEAN 11.5 MAX 106 MIN 1.7 AC-FT 8,330

PEAK DISCHARGE (BASE,70 CFS, revised)

DATE TIME G.H.T. DISCHARGE

6- 7 1815 6.79 139

PLATTE RIVER BASIN

123

06637900 SLATE CREEK NEAR ATLANTIC CITY, WYO.

LOCATION.--Lat 42°30'57", long 108°44'52", in SE¼NW¼ sec.2, T.29 N., R.100 W., Fremont County, on left bank 600 ft upstream from mouth and 1.6 miles northwest of Atlantic City.

DRAINAGE AREA.--5.92 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,880 ft (from topographic map). Prior to Oct. 1, 1963, at datum 1.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 162 cfs June 7 (gage height, 3.31 ft); minimum daily, 0.79 cfs Feb. 4.

Period of record: Maximum discharge, 296 cfs June 10, 1965 (gage height, 4.02 ft), from rating curve extended above 130 cfs; minimum daily, 0.1 cfs for many days during 1959-61.

REMARKS.--Records poor. Flow affected by diversion from Rock Creek into Slate Creek basin above station during some periods since 1963. No diversion for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.3	1.4	.98	.87	.97	2.1	3.7	123	12	2.2	1.7
2	2.1	1.4	1.3	.95	.85	.93	2.1	4.3	122	16	2.6	1.5
3	2.1	1.4	1.3	.93	.81	.91	2.2	4.6	124	18	3.2	1.1
4	2.4	1.5	1.3	.95	.79	.94	2.4	5.0	120	17	2.6	.85
5	2.6	1.4	1.2	1.0	.80	1.0	2.7	5.7	120	16	2.2	1.2
6	2.6	1.3	1.2	1.1	.83	1.1	3.4	5.2	121	14	2.0	1.9
7	2.5	1.3	1.2	1.2	.85	1.0	3.4	6.4	121	14	1.9	1.5
8	2.2	1.4	1.1	1.2	.87	1.1	3.2	7.6	140	7.5	1.9	1.3
9	2.0	1.5	1.1	1.1	.89	1.1	3.2	9.4	125	5.5	2.0	1.0
10	1.9	1.6	1.1	1.1	.91	1.2	3.1	8.8	105	5.5	1.8	1.2
11	1.8	1.7	1.0	1.0	.95	1.3	3.1	7.9	90	4.7	1.8	1.1
12	1.8	1.8	1.0	1.0	.97	1.5	3.1	7.6	83	4.8	1.8	1.1
13	1.8	1.8	.97	.98	.94	1.8	2.8	7.9	77	4.4	1.7	1.1
14	1.8	1.7	.95	.95	.93	1.9	2.7	11	68	3.9	1.8	1.1
15	1.8	1.6	.93	.94	.92	2.1	2.8	13	63	3.9	1.6	1.1
16	1.8	1.6	.92	.95	.93	2.6	3.1	17	59	3.7	1.6	1.1
17	2.2	1.6	.91	.98	.97	2.7	3.0	19	51	3.5	1.6	1.0
18	2.3	1.7	.93	1.0	1.0	2.7	2.8	20	48	3.8	1.5	1.1
19	2.2	1.7	.96	1.0	1.1	2.6	2.7	21	41	3.6	1.7	1.2
20	2.0	1.6	1.0	1.1	1.2	2.2	2.6	23	37	3.7	1.8	1.4
21	2.0	1.6	1.0	1.1	1.2	2.2	2.6	19	32	4.3	1.7	1.4
22	2.0	1.6	1.1	1.1	1.1	2.6	2.6	15	30	3.7	1.7	1.3
23	1.8	1.6	1.1	1.0	1.1	2.6	2.7	14	33	3.3	1.8	1.3
24	1.8	1.5	1.1	1.0	1.0	2.2	3.2	15	27	3.1	2.2	1.3
25	2.2	1.5	1.2	.96	.95	2.1	3.7	16	26	3.2	2.0	1.3
26	2.0	1.6	1.2	.93	.93	2.2	3.7	73	23	3.1	1.8	1.3
27	1.7	1.6	1.2	.89	.95	2.0	3.4	103	19	3.1	1.6	1.3
28	1.6	1.5	1.1	.90	.98	2.0	3.6	104	17	2.8	1.5	1.4
29	1.5	1.5	1.1	.91	1.0	2.0	4.3	107	17	2.5	1.4	1.4
30	1.4	1.4	1.0	.92	-----	1.9	4.1	117	14	2.4	1.5	1.4
31	1.3	-----	1.0	.90	-----	1.9	-----	118	-----	2.4	1.6	-----
TOTAL	61.3	46.3	33.87	31.02	27.59	55.35	90.4	909.1	2,076	199.4	58.1	37.95
MEAN	1.98	1.54	1.09	1.00	.95	1.79	3.01	29.3	69.2	6.43	1.87	1.27
MAX	2.6	1.8	1.4	1.2	1.2	2.7	4.3	118	140	18	3.2	1.9
MIN	1.3	1.3	.91	.89	.79	.91	2.1	3.7	14	2.4	1.4	.85
AC-FT	122	92	67	62	55	110	179	1,800	4,120	396	115	75
CAL YR 1971	TOTAL 4,084.04		MEAN 11.2		MAX 141		MIN .53		AC-FT 8,100			
WTR YR 1972	TOTAL 3,626.38		MEAN 9.91		MAX 140		MIN .79		AC-FT 7,190			

NOTE.--No gage-height record Nov. 27 to Mar. 16.

PLATTE RIVER BASIN

06637910 ROCK CREEK AT ATLANTIC CITY, WYO.

LOCATION.--Lat 42°30'47", long 108°44'46", in NW¼SE¼ sec.2, T.29 N., R.100 W., Fremont County, on left bank 500 ft downstream from Slate Creek and 1.4 miles northwest of Atlantic City.

DRAINAGE AREA.--21.3 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,850 ft (from topographic map). Prior to Oct. 4, 1957, at site 35 ft upstream at different datum.

AVERAGE DISCHARGE.--15 years, 11.7 cfs (8,480 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 178 cfs June 8 (gage height, 3.30 ft); maximum gage height, 4.04 ft Oct. 18 (backwater from beaver dam); minimum daily discharge, 1.7 cfs Oct. 3.

Period of record: Maximum discharge, 340 cfs June 10, 1965 (gage height, 3.85 ft); maximum gage height, 4.30 ft Sept. 28, 1971 (backwater from beaver dam); minimum daily discharge, 0.62 cfs Aug. 31, 1966.

REMARKS.--Records poor. Flow regulated by Rock Creek Reservoir 3 miles upstream since October 1961 (capacity, 2,800 acre-ft). Water-quality records for the current year are published in Part 2 of the report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.7	3.1	2.9	2.7	9.9	9.4	12	128	22	4.6	18
2	1.9	3.3	7.7	3.2	2.9	9.0	9.9	13	132	25	4.6	19
3	1.7	2.9	4.1	3.1	2.7	9.4	9.4	14	132	26	5.1	19
4	1.8	2.7	2.8	3.0	2.5	7.7	15	12	135	22	6.3	20
5	2.0	5.7	3.0	2.9	4.8	8.1	22	15	142	19	7.4	28
6	2.3	2.0	3.0	2.9	6.7	11	32	16	130	18	7.4	52
7	2.2	1.6	3.0	2.9	4.7	12	24	16	111	20	5.4	46
8	2.1	4.8	3.0	3.1	6.7	12	15	19	145	15	5.7	36
9	2.2	4.6	2.9	3.0	8.2	15	15	20	123	13	7.4	9.0
10	2.3	6.0	5.7	3.0	9.9	19	12	19	107	13	7.0	2.4
11	2.7	5.7	6.0	2.9	7.7	21	20	19	91	12	7.0	2.5
12	2.5	7.0	6.0	2.8	5.7	18	16	18	84	11	6.7	2.3
13	2.4	6.6	6.0	2.8	5.7	18	11	17	78	7.7	7.4	2.9
14	2.3	5.7	4.9	3.0	5.7	16	20	20	6.9	6.3	6.9	3.6
15	2.7	7.3	2.7	3.3	6.3	17	22	25	63	6.7	7.9	3.8
16	2.6	8.9	2.5	3.5	5.4	16	16	28	59	7.4	8.2	3.8
17	2.8	10	2.5	3.7	5.9	18	25	32	54	7.7	6.4	3.8
18	3.5	9.5	2.4	3.9	9.4	19	30	35	53	9.4	5.7	4.1
19	4.7	9.0	2.3	4.2	5.4	17	20	36	47	12	8.2	4.8
20	5.7	8.5	2.1	4.4	9.0	14	22	36	44	8.5	9.2	6.0
21	5.7	9.4	5.4	5.0	9.0	12	12	28	38	5.7	9.2	2.9
22	5.4	5.7	8.1	6.0	9.0	15	12	24	35	11	9.3	2.4
23	5.4	6.3	8.5	8.0	10	18	3.0	22	40	9.9	9.2	2.4
24	5.1	5.7	7.7	10	10	15	5.4	22	35	7.7	7.2	5.4
25	5.8	4.8	6.6	12	10	15	12	24	32	5.7	5.3	3.6
26	5.9	4.1	5.4	12	11	14	12	90	28	8.5	11	2.5
27	5.4	4.1	3.6	11	11	9.2	13	120	23	7.0	11	5.1
28	5.2	5.4	3.0	7.0	12	9.9	13	122	20	6.3	9.7	6.0
29	4.9	8.1	2.7	4.4	12	13	14	120	21	5.1	7.9	6.0
30	4.4	8.1	2.5	3.7	-----	12	12	125	22	4.6	11	5.7
31	4.0	-----	2.7	2.9	-----	9.0	-----	120	-----	4.3	15	-----
TOTAL	112.6	205.9	135.8	145.8	226.0	431.2	492.5	1,239	2,220	357.5	240.3	329.0
MEAN	3.63	7.00	4.41	4.70	7.79	13.9	16.4	40.0	74.0	11.5	7.75	11.0
MAX	5.8	20	8.5	12	12	21	32	125	145	11	15	52
MIN	1.7	2.7	2.1	2.8	2.5	7.7	9.4	12	20	4.6	4.6	2.3
AC-FT	223	416	271	289	448	855	977	2,460	4,400	477	477	653

CAL YR 1971 TOTAL 6,926.2 MEAN 18.7 MAX 160 MIN 1.7 AC-FT 11,540
 WTR YR 1972 TOTAL 6,140.6 MEAN 16.8 MAX 145 MIN 1.7 AC-FT 11,180

PLATTE RIVER BASIN

125

06639000 SWEETWATER RIVER NEAR ALCOVA, WYO.

LOCATION.--Lat 42°27'28", long 107°11'45", in SW¼NE¼ sec.25, T.29 N., R.87 W., Natrona County, on left bank at Dumbell Ranch, 1.0 mile downstream from Schounmaker ditch diversion dam, 13 miles upstream from high-water line of Pathfinder Reservoir at elevation 5,850 ft, and 25 miles southwest of Alcovia.

DRAINAGE AREA.--2,327 sq mi.

PERIOD OF RECORD.--August 1913 to September 1924, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft (from topographic map). Aug. 28, 1913, to Sept. 30, 1924, nonrecording gages at site 0.4 mile upstream at different datums.

AVERAGE DISCHARGE.--45 years, 124 cfs (89,840 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,100 cfs June 8, 10; maximum gage height, 6.56 ft June 10; minimum daily discharge, 18 cfs Sept. 4, 5.
Period of record: Maximum discharge observed, 4,290 cfs Apr. 13, 1924 (gage height, 8.36 ft, site and datum then in use); minimum daily, 0.5 cfs July 30 to Aug. 12, 1940.

REMARKS.--Records good except those for winter period, which are poor. Several small reservoirs above station (combined capacity, about 5,000 acre-ft) for irrigation. Diversions for irrigation of about 24,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Sixteen discharge measurements were furnished by the Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 1310: 1921, 1923-24. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	80	70	50	20	92	173	376	775	270	90	19
2	64	80	70	50	20	86	183	389	784	250	78	19
3	66	80	70	40	30	113	183	421	807	241	75	20
4	68	80	70	40	30	109	176	425	852	227	75	18
5	70	80	70	40	30	94	167	394	918	220	73	18
6	75	80	70	40	30	109	166	384	941	214	72	19
7	83	80	60	40	30	106	170	420	984	206	70	20
8	88	90	50	40	30	106	178	493	1,080	191	71	19
9	90	90	50	40	30	113	196	551	1,080	182	73	19
10	91	90	60	40	30	124	234	613	1,090	160	68	20
11	92	90	60	40	30	129	276	699	1,070	139	64	19
12	93	90	60	40	30	121	279	792	1,040	139	62	26
13	95	90	60	30	30	122	327	857	1,050	136	57	29
14	93	90	60	30	30	156	344	850	1,040	123	56	38
15	91	90	60	30	30	202	359	757	947	113	49	50
16	88	90	60	30	30	200	344	656	859	110	44	46
17	90	90	60	30	30	194	314	596	777	103	38	44
18	96	80	60	30	30	196	319	586	709	98	32	44
19	100	80	60	30	40	201	365	610	643	96	32	44
20	95	80	60	30	50	206	396	711	578	95	32	44
21	93	80	60	30	50	210	373	785	521	93	27	45
22	94	80	60	30	50	217	314	880	483	94	24	45
23	93	80	60	30	50	237	300	899	444	95	24	45
24	95	80	60	30	50	231	297	899	392	100	25	45
25	97	80	60	30	50	229	300	930	355	98	27	45
26	89	80	50	20	50	215	321	940	348	95	25	46
27	82	80	50	20	80	200	341	896	357	97	23	49
28	70	80	50	20	100	196	381	826	338	96	21	49
29	60	80	50	20	100	179	410	783	324	91	20	51
30	60	80	50	20	-----	170	393	771	301	84	19	51
31	70	-----	50	20	-----	175	-----	776	-----	84	19	-----
TOTAL	2,595	2,500	1,840	1,010	1,190	5,038	8,579	20,965	21,887	4,340	1,465	1,046
MEAN	83.7	83.3	59.4	32.6	41.0	163	286	676	730	140	47.3	34.9
MAX	100	90	70	50	100	237	410	940	1,090	270	90	51
MIN	60	80	50	20	20	86	166	376	301	84	19	18
AC-FT	5,150	4,960	3,650	2,000	2,360	9,990	17,020	41,580	43,410	8,610	2,910	2,070
CAL YR 1971	TOTAL	53,810.8	MEAN	147	MAX	911	MIN	8.4	AC-FT	106,700		
WTR YR 1972	TOTAL	72,455.0	MEAN	198	MAX	1,090	MIN	18	AC-FT	143,700		

PLATTE RIVER BASIN

06640500 PATHFINDER RESERVOIR NEAR ALCOVA, WYO.

LOCATION.--Lat 42°28'06", long 106°51'12", in NW¼SW¼ sec.24, T.29 N., R.84 W., Natrona County, in gatehouse near left end of dam on North Platte River and 9 miles southwest of Alcovia.

DRAINAGE AREA.--14,670 sq mi, of which 4,659 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--January 1909 to current year. Monthend figures only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 5,678.1 ft above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1950, sea level elevations were referred to Bureau of Reclamation datum which was 1.9 ft lower than mean sea level. Prior to Apr. 12, 1950, nonrecording gages near present site at datum 1.9 ft lower.

EXTREMES.--Current year: Maximum daily contents, 959,800 acre-ft May 24 (elevation, 5,847.50 ft); minimum daily, 668,600 acre-ft Sept. 30 (elevation, 5,831.94 ft).
Period of record: Maximum daily contents, 1,182,000 acre-ft June 25-27, 1917 (elevation, 5,858.86 ft, present datum); no storage at times during 1909-12, 1931, 1958-59.

REMARKS.--Reservoir is formed by masonry dam. Storage began in April 1909. Capacity, 1,016,000 acre-ft between elevations 5,668.1 ft (north outlet trashrack sill) and 5,850.1 ft (crest of spillway). No dead storage. Figures given herein represent total contents. Water is used to irrigate lands in Wyoming and Nebraska under the North Platte project. Since December 1960 the water has been diverted directly through a tunnel to Fremont Canyon Powerplant, bypassing a section of river channel immediately below Pathfinder Dam.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

5,831	653,500	5,845	907,700
5,835	719,500	5,848	971,400
5,840	809,500		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	789,000	823,600	828,500	859,600	895,100	921,300	913,900	925,800	944,600	852,500	738,600	682,600
2	799,000	823,200	829,300	860,800	896,400	920,900	913,500	926,600	943,300	847,100	734,800	681,000
3	789,400	823,600	829,700	862,800	898,000	922,500	912,600	927,900	942,500	842,400	732,400	679,700
4	790,100	823,200	830,800	863,500	898,200	922,900	911,800	929,100	941,200	837,800	730,600	678,700
5	791,600	822,000	830,400	866,700	898,800	922,900	911,400	930,400	939,600	832,800	728,900	677,400
6	793,100	822,000	831,600	869,100	899,200	922,700	909,800	931,600	938,300	828,500	727,200	676,100
7	794,200	822,000	833,100	869,100	899,600	922,900	908,500	933,300	937,100	823,200	725,100	676,100
8	795,300	822,000	833,500	870,700	900,400	922,100	908,900	935,800	935,000	819,800	723,300	675,400
9	796,800	821,300	834,500	872,700	902,000	921,700	909,800	938,300	933,300	814,400	721,600	674,400
10	797,200	821,300	835,800	874,300	903,200	921,300	910,200	940,400	931,200	809,500	720,900	673,500
11	799,100	820,900	836,600	875,900	904,100	921,300	911,800	942,100	928,100	804,500	719,500	673,500
12	799,100	820,500	837,800	875,100	904,700	920,900	912,000	944,600	925,200	800,600	718,200	673,500
13	799,800	820,900	838,900	875,900	905,100	920,900	912,600	945,800	920,900	796,400	715,800	672,800
14	801,300	820,900	840,500	877,500	906,100	921,700	913,500	947,900	918,600	793,100	714,100	672,800
15	803,400	821,300	840,100	878,600	906,100	921,300	914,300	949,600	915,700	789,400	712,400	671,800
16	804,800	822,400	841,600	880,200	905,300	921,700	914,700	951,300	911,800	786,800	710,700	671,300
17	806,200	823,200	843,200	883,000	905,300	921,700	915,100	954,700	909,400	783,100	709,000	670,500
18	807,100	824,300	844,000	882,600	905,500	922,100	916,800	954,700	907,300	780,600	705,900	671,500
19	808,000	825,100	844,400	884,200	905,700	920,900	917,600	955,700	903,600	777,800	703,900	671,200
20	808,800	824,700	845,500	884,600	908,700	920,900	918,000	957,200	900,000	774,200	701,900	671,800
21	809,700	824,300	847,800	884,600	909,400	920,900	918,800	958,100	895,500	770,400	700,900	671,800
22	811,000	823,900	847,800	885,800	911,800	920,500	919,200	959,300	892,300	767,100	698,900	671,500
23	811,800	825,100	847,800	887,000	912,200	920,900	919,600	959,300	887,400	763,700	697,900	671,200
24	812,600	825,500	849,000	888,600	913,100	919,600	920,500	959,800	883,800	761,000	695,200	671,500
25	814,100	826,200	849,900	889,100	914,700	918,400	921,700	958,500	879,000	757,800	693,200	671,200
26	815,200	826,200	851,400	890,300	916,300	918,000	923,800	956,800	874,300	754,500	691,900	671,500
27	816,400	827,000	852,900	891,100	917,600	917,200	924,200	955,100	870,700	751,000	689,700	671,800
28	818,200	827,400	853,700	891,900	918,400	917,200	924,600	953,000	867,100	748,200	689,200	670,000
29	818,600	827,700	855,700	892,700	919,600	916,800	925,400	950,400	862,400	745,300	687,200	669,900
30	821,700	828,100	856,500	893,100	-----	915,900	925,400	948,800	858,000	743,000	685,600	668,600
31	821,300	-----	858,000	893,500	-----	914,700	-----	946,700	-----	741,400	683,900	-----
MAX	821,700	828,100	858,000	893,500	919,600	922,900	925,400	959,800	944,600	852,500	738,600	682,600
MIN	789,000	820,500	828,500	859,600	895,100	914,700	908,500	925,800	939,600	74,400	683,900	668,600
(+)	5,840.62	5,840.98	5,842.52	5,844.30	5,845.58	5,845.34	5,845.86	5,846.88	5,846.88	5,836.26	5,832.88	5,831.94
(*)	+32,700	+6,800	+29,900	+35,500	+26,100	-4,900	+10,700	+21,300	-----	-116,600	-----	-15,300

CAL YR 1971..... +201,900

WTR YR 1972..... -120,000

† Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

06641500 ALCOVA RESERVOIR AT ALCOVA, WYO.

LOCATION.--Lat 42°32'52", long 106°43'08", in SE¼SE¼ sec.24, T.30 N., R.83 W., Natrona County, in elevator shaft at right end of dam on North Platte River and 0.2 mile southwest of Alcovia.

DRAINAGE AREA.--14,735 sq mi, of which 4,659 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--February 1938 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

GAGE.--Water-stage recorder for elevations above 5,447.00 ft. Datum of gage is 5,320 ft above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Prior to June 27, 1955, nonrecording gages near present site at same datum.

EXTREMES.--Current year: Maximum daily contents, 181,300 acre-ft May 9, 10 (elevation, 5,498.77 ft); minimum daily, 153,500 acre-ft Nov. 2 (elevation, 5,486.90 ft).
Period of record: Maximum daily contents, 190,300 acre-ft Aug. 14, 15, 1952 (elevation, 5,499.92 ft); minimum daily (since appreciable storage was attained), 1,980 acre-ft Sept. 30, 1940 (elevation, 5,353.56 ft). No usable storage prior to February 1938.

REMARKS.--Reservoir is formed by rock-fill dam; completed in January 1938; storage began Feb. 8, 1938. Capacity, 184,300 acre-ft at elevation 5,500.00 ft (top of spillway gates). Dead storage, 155 acre-ft. Figures given herein represent total contents. Usable contents published prior to October 1956. Water is used for irrigation in North Platte River basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

5,486	151,500	5,495	172,200
5,490	160,500	5,499	181,800

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177,400	153,700	155,900	156,400	155,200	159,900	171,800	180,600	179,300	179,800	178,000	179,100
2	177,400	153,500	155,700	156,400	155,400	159,700	173,300	180,700	179,400	179,600	178,700	179,000
3	176,300	153,700	155,400	156,300	155,500	159,600	174,600	180,600	179,500	179,400	179,000	178,900
4	175,200	154,000	155,400	156,400	155,400	159,600	175,800	180,800	179,700	179,200	179,100	179,100
5	174,100	154,200	155,400	156,600	155,100	159,700	177,100	180,800	179,700	179,000	179,000	179,200
6	173,100	154,600	155,300	156,400	155,100	159,600	178,500	180,900	179,800	178,800	178,800	179,000
7	172,100	154,900	155,300	156,200	155,200	159,700	179,000	180,800	179,900	178,700	178,800	178,600
8	171,000	155,400	155,300	156,100	155,100	159,700	179,800	181,100	179,900	178,600	178,900	178,700
9	170,000	155,600	155,300	155,900	155,200	159,900	179,700	181,300	179,900	178,700	178,900	178,400
10	169,000	155,900	155,400	155,700	155,300	160,200	179,900	181,300	179,800	179,000	178,800	178,300
11	167,800	156,000	155,400	155,500	155,400	160,000	179,900	181,100	179,800	179,000	178,900	178,000
12	166,400	156,200	155,600	155,500	155,400	160,000	179,500	181,000	179,800	178,900	178,900	177,900
13	165,400	156,200	155,500	155,600	155,600	159,900	179,800	181,000	179,800	179,000	179,000	177,900
14	164,600	156,300	155,700	155,400	155,700	159,800	179,900	180,800	179,900	178,500	179,100	177,700
15	163,700	156,400	155,700	155,200	155,700	159,600	180,100	180,600	180,300	178,500	179,400	177,700
16	162,500	156,400	155,800	154,900	157,000	159,400	180,100	180,400	180,200	178,400	179,300	177,600
17	161,300	156,500	156,000	154,600	158,500	159,300	180,200	180,200	180,300	178,100	179,300	177,400
18	160,700	156,600	156,100	154,700	159,800	159,100	180,400	180,100	180,400	178,300	179,300	177,700
19	159,600	156,400	156,300	154,500	159,800	159,400	180,400	179,800	180,600	178,700	179,300	177,900
20	158,600	156,300	156,400	154,500	159,900	159,900	180,500	179,800	180,700	178,700	179,300	177,700
21	157,500	156,200	156,600	154,400	160,100	160,400	180,900	179,500	180,600	178,800	179,400	177,600
22	156,500	156,200	156,700	154,500	160,100	160,900	181,200	179,100	180,800	179,000	179,600	177,600
23	155,500	156,200	156,500	154,700	160,200	161,500	181,100	178,800	180,900	179,100	179,500	177,800
24	154,400	156,100	156,300	154,400	160,200	162,100	181,000	178,500	181,000	179,200	179,700	177,900
25	154,300	156,000	156,200	154,300	160,200	163,000	181,000	178,300	181,100	179,200	179,600	178,100
26	154,200	156,000	156,500	154,500	160,200	164,000	181,200	178,100	181,000	178,900	179,500	178,100
27	154,100	156,000	156,400	154,700	160,300	165,100	181,100	178,400	180,800	179,300	179,600	178,100
28	154,100	155,900	156,500	154,800	160,200	166,500	181,100	178,800	180,400	179,600	179,400	177,900
29	154,100	155,900	156,500	154,900	160,000	167,900	181,200	179,000	180,000	179,800	179,300	178,300
30	154,000	156,200	156,400	154,900	-----	169,300	180,800	179,900	179,900	179,500	179,200	178,300
31	153,000	-----	156,400	155,000	-----	170,700	-----	179,500	-----	177,300	179,200	-----
MAX	177,400	156,500	156,700	156,600	160,300	170,700	181,200	181,300	181,100	179,800	179,700	179,200
MIN	153,500	153,500	155,300	154,300	155,100	159,100	171,800	178,100	179,300	177,300	178,000	177,400
(+)	5,487.07	5,488.14	5,488.22	5,487.59	5,489.81	5,494.37	5,498.58	5,498.05	5,498.22	5,497.16	5,497.93	5,497.57
(#)	-23,700	+2,400	+200	-1,400	+5,000	+10,700	+10,100	-1,300	+400	-2,600	+1,900	-900

CAL YR 1971..... +700

WTR YR 1972..... +800

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

PLATTE RIVER BASIN

06642000 NORTH PLATTE RIVER AT ALCOVA, WYO.

LOCATION.--Lat 42°34'27", long 106°41'31", in NW¼NE¼NW¼ sec.17, T.30 N., R.82 W., Natrona County, on left bank 0.5 mile downstream from Hogback Draw, 0.8 mile downstream from Gray Reef Dam, 1.9 miles northeast of Alcova, and 3.8 miles downstream from Alcova Dam.

DRAINAGE AREA.--14,771 sq mi, of which 4,659 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing. Area at site used prior to Apr. 28, 1961, 14,736 sq mi.

PERIOD OF RECORD.--February 1904 to December 1905, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 5,299.40 ft above mean sea level. Feb. 19, 1904, to Dec. 31, 1905, nonrecording gage at site 3.7 miles upstream at different datum. June 1, 1935, to Apr. 27, 1961, water-stage recorder at site 3.5 miles upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 3,580 cfs June 27 (gage height, 4.68 ft); minimum daily, 301 cfs May 4-7.

Period of record: Maximum discharge observed, 13,400 cfs June 6, 10, 11, 1905 (gage height, 11.5 ft, site and datum then in use); minimum not determined.

REMARKS.--Records good. Flow completely regulated by Seminole, Pathfinder, and Alcova Reservoirs. (See sta 06635500, 06640500, 06641500.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1310: 1937-38, 1945. WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,000	507	964	697	1,000	1,410	1,580	842	1,850	3,120	1,560	1,080
2	1,000	634	964	704	1,000	1,550	1,580	627	1,850	3,120	1,560	1,000
3	1,180	1,010	964	704	1,000	1,550	1,580	365	1,860	3,120	1,580	991
4	1,200	1,000	964	704	1,000	1,550	1,580	301	1,850	3,100	1,470	991
5	1,100	1,000	964	704	1,000	1,640	1,580	301	1,840	3,120	1,340	991
6	1,000	1,000	964	718	1,000	1,850	1,580	301	1,810	3,100	1,360	937
7	1,000	1,000	964	725	1,000	1,970	1,300	301	1,810	3,010	1,340	893
8	1,000	1,000	964	725	1,000	1,970	1,150	309	1,810	3,010	1,320	842
9	1,010	1,010	912	725	1,000	1,980	1,150	314	2,100	2,990	1,330	802
10	1,010	931	868	755	1,000	1,970	1,160	318	2,440	2,930	1,320	809
11	1,010	1,000	868	778	1,000	1,990	1,150	318	2,480	2,970	1,320	627
12	1,010	921	868	778	1,000	1,980	1,150	318	2,550	2,970	1,320	537
13	1,010	1,000	885	778	1,000	1,980	1,150	318	2,720	2,940	1,320	537
14	1,010	1,000	910	902	1,000	1,980	1,150	318	2,950	1,970	1,310	537
15	1,010	1,000	946	1,000	1,010	1,970	1,150	327	2,830	1,970	1,290	537
16	1,010	1,000	902	1,000	1,020	1,970	1,150	332	2,830	1,970	1,290	537
17	1,010	1,000	919	1,000	1,020	1,980	1,150	417	2,950	1,930	1,290	537
18	1,010	1,000	933	1,000	1,020	1,980	1,150	489	2,830	1,880	1,290	444
19	1,010	1,000	902	1,000	1,020	1,980	1,070	489	2,820	1,880	1,280	380
20	1,010	1,000	993	1,000	1,020	1,980	851	489	2,820	1,880	1,230	365
21	1,010	1,000	902	1,000	1,020	1,980	842	489	2,900	1,890	1,290	348
22	1,010	1,000	902	1,000	1,050	1,980	842	607	2,900	1,880	1,290	346
23	1,010	1,000	902	1,000	1,070	1,980	842	1,160	2,900	1,880	1,300	346
24	771	912	902	1,000	1,100	1,930	842	1,630	2,900	1,920	1,240	346
25	507	964	902	1,000	1,130	1,790	842	1,870	2,960	1,960	1,150	337
26	507	944	902	1,100	1,130	1,790	842	1,980	3,090	1,960	1,150	327
27	507	944	902	1,010	1,120	1,660	842	1,940	3,210	1,940	1,150	747
28	507	964	859	1,000	1,160	1,590	842	1,870	3,270	1,940	1,170	991
29	507	964	762	1,000	1,250	1,590	842	1,870	3,180	1,960	1,190	991
30	507	944	697	1,000	-----	1,590	842	1,870	3,120	1,960	1,190	991
31	507	-----	725	1,000	-----	1,580	-----	1,870	-----	1,620	1,200	-----
TOTAL	23,152	29,899	27,843	27,507	30,140	56,990	32,781	24,950	77,250	73,420	40,490	20,144
MEAN	303	263	288	287	1,039	1,835	1,126	805	2,575	2,368	1,306	671
MAX	1,200	1,010	964	1,100	1,250	1,990	1,580	1,980	3,270	3,120	1,580	1,080
MIN	507	507	697	697	1,000	1,410	842	301	1,810	1,620	1,150	327
AC-FT	55,840	57,320	55,230	54,550	59,730	112,800	67,000	49,490	153,200	145,600	80,310	39,960
CAL YR 1971	TOTAL 553,372		MEAN 1,516	MAX 4,070	MIN 333	AC-FT 1,098,000						
WTR YR 1972	TOTAL 469,456		MEAN 1,283	MAX 3,270	MIN 301	AC-FT 931,200						

06646600 DEER CREEK BELOW MILLAR WASTEWAY, AT GLENROCK, WYO.

LOCATION.--Lat 42°51'50", long 105°51'56", in NW¼NW¼ sec.4, T.33 N., R.75 W., Converse County, on right bank in Glenrock, 900 ft downstream from bridge on U.S. Highways 20 and 87, and 0.5 mile upstream from mouth.

DRAINAGE AREA.--213 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 73.0 cfs (52,890 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 870 cfs May 10 (gage height, 4.14 ft); minimum daily, 0.08 cfs Aug. 17.
Period of record: Maximum discharge, 14,200 cfs June 12, 1970 (gage height, 9.45 ft); no flow at times in 1961-63, 1965.

REMARKS.--Records fair except those below 8.0 cfs, which are poor. One small reservoir above station (capacity, about 60 acre-ft) for irrigation. Diversions above station for irrigation of about 3,700 acres, of which about 400 acres lies below station. Water is diverted to Millar ditch 0.3 mile upstream and bypasses the station; observations of no flow and results of discharge measurements, in cubic feet per second, of flow in ditch are given below:

Nov. 3 . . 0	Mar. 31 . . 0	June 8 . . 0
Dec. 2 . . 0	Apr. 28 . . 0	July 12 . . 0
Jan. 7 . . 0	May 9 . . 0	Aug. 8 . . 0
Jan. 31 . . 0	May 11 . . 0.28	Sept. 13 . . 0
Mar. 9 . . 0	May 24 . . 0	

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Wyo. 1967: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	33	31	30	25	40	64	317	101	3.1	2.3	12
2	31	32	28	20	25	35	73	277	99	3.7	2.8	11
3	31	32	24	15	25	47	76	284	94	6.1	3.4	8.3
4	31	33	35	20	25	41	70	297	122	7.2	3.4	5.7
5	33	34	28	25	25	36	68	321	118	9.1	4.8	4.2
6	33	28	40	25	25	46	110	297	155	14	2.6	5.7
7	32	31	33	25	25	64	143	284	118	14	2.1	4.5
8	30	32	32	25	25	70	135	317	97	15	1.6	4.2
9	29	32	31	25	25	73	130	391	97	14	2.0	4.0
10	28	32	32	25	25	92	122	664	101	12	1.6	4.0
11	27	32	32	25	25	228	150	646	80	10	.51	4.2
12	27	35	32	20	30	304	255	446	67	8.7	.78	3.7
13	26	39	32	15	31	249	217	410	56	8.7	.59	2.9
14	29	38	31	10	27	274	197	383	44	6.8	.68	3.4
15	29	35	32	15	26	150	169	331	26	4.9	.19	2.9
16	28	39	32	20	30	124	177	331	23	2.6	.11	2.4
17	29	37	32	25	28	150	177	349	29	2.4	.08	2.6
18	31	30	33	30	26	174	172	360	36	2.9	1.2	3.7
19	34	29	32	30	30	200	174	360	37	3.1	5.0	4.0
20	32	38	32	30	32	143	139	446	36	4.5	5.3	4.5
21	32	37	32	30	32	104	139	398	35	4.2	5.7	4.8
22	32	37	33	30	29	106	130	346	27	3.7	8.0	4.8
23	32	38	38	30	30	132	122	284	22	3.4	8.7	6.1
24	31	36	36	25	29	150	120	243	16	2.3	9.6	3.4
25	30	36	39	20	26	122	132	214	15	1.0	8.7	4.5
26	30	35	40	20	23	146	152	190	14	.68	8.3	5.0
27	30	35	35	20	31	97	99	174	12	1.0	7.2	4.5
28	30	35	30	25	31	87	192	162	12	1.8	8.0	6.1
29	25	34	34	25	35	85	300	150	7.7	1.6	8.0	7.2
30	26	35	30	25	-----	76	414	132	2.9	1.6	8.3	5.7
31	33	-----	30	25	-----	74	-----	112	-----	2.1	9.1	-----
TOTAL	930	1,029	1,021	730	801	3,719	4,618	9,916	1,699.6	176.18	130.64	150.0
MEAN	30.0	34.3	32.9	23.5	27.6	120	154	320	56.7	5.68	4.21	5.00
MAX	34	39	40	30	35	304	414	664	155	15	9.6	12
MIN	25	28	29	10	23	35	64	112	2.9	.68	.08	2.4
AC-FT	1,840	2,040	2,030	1,450	1,590	7,380	9,160	19,670	3,370	349	259	298

CAL YR 1971 TOTAL 44,794.33 MEAN 123 MAX 1,900 MIN .06 AC-FT 88,850
WTR YR 1972 TOTAL 24,920.42 MEAN 68.1 MAX 664 MIN .08 AC-FT 49,430

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G.HT.	DISCHARGE
4-30	0400	3.53	539
5-10	1300	4.14	870
5-20	1030	3.46	501

PLATTE RIVER BASIN

06646800 NORTH PLATTE RIVER NEAR GLENROCK, WYO.

LOCATION.--Lat 42°50'10", long 105°45'30", in NW¼NE¼ sec.17, T.33 N., R.74 W., Converse County, on left bank 0.8 mile downstream from Sand Creek, 1.0 mile downstream from Dave Johnston powerplant, and 5.8 miles east of Glenrock city limits.

DRAINAGE AREA.--17,497 sq mi, of which 5,132 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,920 ft (from topographic map). Prior to Oct. 1, 1965, at datum 1.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 3,640 cfs June 29 (gage height, 3.73 ft); minimum daily, 344 cfs Oct. 30.

Period of record: Maximum discharge, 16,000 cfs May 14, 1965 (gage height, 6.10 ft); minimum daily, 176 cfs Dec. 11, 1961.

REMARKS.--Records good. Flow regulated by Seminoe, Pathfinder, and Alcova Reservoirs. (See sta 06635500, 06640500, 06641500.) Slight regulation 1.0 mile upstream by storage pond for Dave Johnston powerplant (capacity, 755 acre-ft). Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, 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.--WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	745	1,200	763	1,200	1,740	1,860	1,560	2,120	3,120	1,900	1,400
2	1,210	784	1,170	674	1,200	1,820	1,850	1,500	2,130	3,120	1,810	1,350
3	1,220	780	1,140	729	1,100	1,890	1,870	1,440	2,130	3,160	1,920	1,210
4	1,300	1,330	1,180	560	1,180	2,020	1,830	1,110	2,220	3,160	1,850	1,190
5	1,400	1,270	1,090	466	1,210	1,930	1,840	981	2,410	3,160	1,760	1,180
6	1,380	1,220	1,200	547	1,240	1,950	1,860	912	2,400	3,180	1,590	1,170
7	1,230	1,220	1,220	653	1,260	2,230	1,910	890	2,180	3,200	1,560	1,160
8	1,210	1,220	622	938	1,260	2,430	1,780	894	2,100	3,120	1,530	1,080
9	1,210	1,230	405	950	1,240	2,350	1,570	964	2,140	3,110	1,540	1,050
10	1,210	1,230	535	933	1,210	2,350	1,560	1,370	2,310	3,090	1,500	954
11	1,210	1,240	545	933	1,190	2,520	1,570	1,570	2,620	3,020	1,480	967
12	1,210	1,240	638	973	1,180	2,650	1,680	1,480	2,650	3,050	1,480	937
13	1,210	1,250	699	937	1,230	2,530	1,700	1,270	2,680	3,040	1,460	726
14	1,190	1,240	797	960	1,250	2,490	1,760	1,180	2,800	2,710	1,450	698
15	1,220	1,240	798	948	1,220	2,430	1,660	1,050	2,900	2,120	1,460	684
16	1,220	1,270	769	1,050	1,230	2,300	1,630	1,020	2,920	2,080	1,420	671
17	1,220	1,270	709	1,210	1,290	2,330	1,610	1,040	2,910	2,050	1,420	655
18	1,280	1,240	1,050	1,220	1,290	2,340	1,640	1,050	2,930	2,030	1,420	658
19	1,250	1,180	989	1,300	1,360	2,360	1,690	1,190	2,900	1,970	1,450	665
20	1,220	1,240	1,030	1,370	1,410	2,350	1,610	1,340	2,890	1,980	1,440	528
21	1,220	1,240	1,000	1,340	1,440	2,320	1,370	1,290	2,880	2,000	1,450	470
22	1,210	1,250	1,140	1,330	1,460	2,280	1,310	1,210	2,930	1,990	1,460	448
23	1,210	1,260	1,380	1,340	1,550	2,290	1,260	1,110	2,930	1,980	1,490	423
24	1,190	1,250	1,310	1,230	1,550	2,360	1,260	1,390	2,910	1,980	1,600	424
25	1,210	1,240	1,390	1,150	1,540	2,300	1,270	1,970	2,910	2,030	1,560	428
26	915	1,220	1,380	1,000	1,500	2,150	1,380	2,190	2,970	2,080	1,380	433
27	759	1,210	1,050	800	1,500	2,130	1,300	2,330	3,030	2,090	1,360	422
28	758	1,220	1,020	850	1,820	2,000	1,350	2,290	3,130	2,190	1,350	427
29	451	1,210	1,060	1,100	1,670	1,900	1,440	2,200	3,250	2,160	1,330	937
30	344	1,210	1,010	1,100	-----	1,890	1,610	2,180	3,190	2,130	1,340	1,010
31	612	-----	769	1,150	-----	1,880	-----	2,160	-----	2,130	1,340	-----
TOTAL	34,689	35,749	30,295	30,504	38,780	68,510	48,030	44,131	80,470	78,230	47,100	24,355
MEAN	1,119	1,192	977	984	1,337	2,210	1,601	1,424	2,682	2,524	1,519	812
MAX	1,400	1,330	1,390	1,370	1,820	2,650	1,910	2,330	3,250	3,200	1,920	1,400
MIN	344	745	405	466	1,100	1,740	1,260	890	2,100	1,970	1,330	422
AC-FT	68,810	70,910	60,090	60,500	76,920	135,900	95,270	87,530	159,600	155,200	93,420	48,310

CAL YR 1971 TOTAL 677,864 MEAN 1,857 MAX 4,940 MIN 344 AC-FT 1,345,000
 WTR YR 1972 TOTAL 560,843 MEAN 1,532 MAX 3,250 MIN 344 AC-FT 1,112,000

PLATTE RIVER BASIN

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06647500 BOX ELDER CREEK AT BOXELDER, WYO.

LOCATION.--Lat 42°36'40", long 105°51'20", in center sec.32, T.31 N., R.75 W., Converse County, on left bank at Hiser Ranch (old Boxelder Post Office), about 1 mile downstream from Snowshoe Creek, and 17 miles south of Glenrock.

DRAINAGE AREA.--63.0 sq mi.

RECORDS AVAILABLE.--April 1946 to September 1951, October 1961 to September 1967, October 1971 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is 6,703.18 ft above mean sea level. Prior to June 7, 1946, non-recording gage, and June 8, 1946, to Oct. 26, 1965, water-stage recorder at same site at datum 1.00ft higher.

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

EXTREMES.--Current year: 506 cfs May 20 (gage height, 4.22 ft); minimum daily, 0.14 cfs Sept. 28.

Period of record: Maximum discharge, 4,530 cfs May 14, 1965 (gage height, 9.58 ft, present datum); no flow at times.

REMARKS.--Records fair above 25 cfs and poor below. Diversions above station for irrigation of about 60 acres, of which about 40 acres lies below station.

REVISIONS.--WRD Wyo. 1967: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.5	3.9	2.7	2.5	2.5	24	191	112	11	2.8	2.2
2	3.0	4.5	3.6	2.5	2.5	2.5	22	178	105	12	2.6	2.7
3	3.0	4.3	3.5	2.5	2.5	2.5	22	182	126	13	3.7	2.3
4	3.0	4.5	3.5	2.7	2.5	2.5	22	199	127	13	3.1	2.6
5	3.0	4.5	3.5	2.5	2.5	2.5	27	216	131	11	2.4	2.3
6	3.0	4.3	3.5	2.7	2.5	4.0	40	206	170	9.9	1.8	2.3
7	3.0	3.9	3.0	2.9	2.5	5.0	43	201	126	9.7	1.5	2.1
8	2.7	3.9	2.5	2.5	2.5	6.0	46	211	110	8.7	1.0	1.8
9	2.3	4.1	2.5	2.5	2.5	8.0	49	255	101	7.9	.95	1.1
10	2.3	4.5	2.5	2.5	2.5	10	49	382	90	7.1	1.1	1.0
11	2.7	4.8	2.5	2.5	2.5	12	87	357	74	6.8	.91	.98
12	2.3	5.6	2.5	2.5	2.5	14	110	303	65	6.1	.80	.91
13	2.3	5.0	2.5	2.5	2.5	15	95	306	60	5.5	.76	.84
14	2.5	4.5	2.5	2.5	2.5	17	87	279	51	4.9	.64	.75
15	2.9	4.3	2.5	2.5	2.5	18	86	283	46	4.6	.51	.69
16	2.9	4.1	2.5	2.5	2.5	19	99	312	41	4.7	.41	.62
17	3.2	4.1	2.5	2.5	2.5	21	106	352	51	4.7	.40	.54
18	4.3	4.1	2.5	2.5	2.5	26	103	385	42	4.7	.31	.46
19	4.5	3.6	2.5	2.5	2.5	28	97	412	35	4.2	.44	.40
20	4.3	3.6	3.0	2.5	2.5	23	89	473	33	4.3	3.0	.40
21	4.3	3.9	3.0	2.5	2.5	25	86	461	29	3.9	1.9	.34
22	4.3	4.1	3.0	2.5	2.5	26	85	393	25	3.2	1.7	.32
23	4.3	3.9	3.0	2.5	2.5	32	80	315	26	2.8	1.7	.26
24	4.1	3.9	3.0	2.5	2.6	31	84	265	22	2.4	3.4	.23
25	4.1	3.9	3.0	2.7	2.2	32	97	241	20	2.4	3.1	.21
26	4.3	3.9	2.5	2.4	1.9	32	80	221	18	2.3	2.3	.16
27	4.0	3.9	2.5	2.4	1.9	28	109	206	17	2.3	1.8	.16
28	4.0	3.9	2.5	2.5	2.0	31	132	183	16	3.5	1.5	.14
29	4.3	4.1	2.5	2.5	2.5	28	180	162	14	2.5	1.4	.65
30	4.1	3.9	2.5	2.8	-----	24	213	142	13	2.0	1.1	1.5
31	4.5	-----	2.8	2.5	-----	23	-----	126	-----	2.1	1.1	-----
TOTAL	106.5	126.1	87.8	78.8	70.6	550.5	2,449	8,398	1,896	183.2	50.13	30.96
MEAN	3.44	4.20	2.83	2.54	2.43	17.8	81.6	271	63.2	5.91	1.62	1.03
MAX	4.5	5.6	3.9	2.9	2.6	32	213	473	170	13	3.7	2.7
MIN	2.3	3.6	2.5	2.4	1.9	2.5	22	126	13	2.0	.31	.14
AC-FT	211	250	174	156	140	1,090	4,860	16,660	3,760	363	99	61

WTR YR 1972 TOTAL 14,027.59 MEAN 38.3 MAX 473 MIN .14 AC-FT 27,820

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-10	0515	3.95	426
5-20	0200	4.22	506
6- 6	0015	3.78	380

PLATTE RIVER BASIN

06649000 LA PRELE CREEK NEAR DOUGLAS, WYO.

LOCATION.--Lat 42°40'52", long 105°37'48", in NW¼SE¼SW¼ sec.5, T.31 N., R.73 W., Converse County, on right bank 0.8 mile upstream from La Prele Reservoir and 13.5 miles southwest of Douglas.

DRAINAGE AREA.--135 sq mi.

PERIOD OF RECORD.--August 1919 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is about 5,600 ft (from nearby line of levels).

AVERAGE DISCHARGE.--52 years (1919-71), 40.4 cfs (29,270 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 724 cfs May 10 (gage height, 10.03 ft); minimum daily during period of operation, 1.5 cfs Aug. 12-14.

Period of record: Maximum discharge, 17,300 cfs June 12, 1970 (gage height, 13.01 ft), from rating curve extended above 2,700 cfs on basis of slope-area measurement of peak flow; no flow at times in 1936, 1939-40, 1943.

REMARKS.--Records fair above 70 cfs and poor below. Several small reservoirs above station (combined capacity, about 140 acre-ft) for irrigation. Diversions for irrigation of about 4,600 acres above station. Water is imported from La Bonte Creek and Wagon Hound Creek basins into Little La Prele Creek, upstream from the station, for irrigation below La Prele Reservoir.

REVISIONS (WATER YEARS).--WSP 1710: Drainage area. WSP 1918: 1920(M), 1952(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2					23	35	289	79	5.0	5.0	3.2
2	1.2					24	38	239	67	5.6	4.0	3.6
3	1.3					25	40	238	79	6.4	2.9	3.2
4	1.3					24	39	256	112	8.6	2.3	3.8
5	1.3					24	42	274	175	7.9	1.8	3.8
6	1.3					28	57	242	123	6.4	1.8	3.4
7	1.2					35	63	219	95	7.2	2.3	4.2
8	1.2					30	57	267	113	7.2	2.3	4.7
9	1.1					28	55	304	156	7.9	2.0	5.0
10	1.2					34	49	537	143	8.6	2.0	5.3
11	1.2					42	82	535	106	6.9	1.7	7.0
12	1.2					45	125	403	87	9.2	1.5	7.2
13	1.3					43	98	415	74	7.9	1.5	7.0
14	1.2					47	91	363	58	5.0	1.5	7.0
15	1.4					38	88	307	52	5.0	1.5	7.0
16	1.5					37	102	292	42	5.0	2.0	7.0
17	1.6					42	104	318	42	5.0	2.0	7.0
18	1.6					42	88	321	44	5.0	2.0	7.0
19	1.6					47	100	324	38	5.0	2.0	7.0
20	1.6					40	84	353	35	5.0	2.0	8.0
21	1.6					36	75	350	31	5.0	2.0	8.0
22	1.6					37	71	313	23	5.0	2.0	8.0
23	1.6					44	65	245	14	5.0	2.0	8.0
24	1.6					51	62	153	14	5.0	2.0	8.0
25	1.6					44	65	159	17	5.0	2.5	9.0
26	1.6					52	93	147	18	5.0	2.5	9.0
27	1.5					40	122	147	14	5.0	2.5	9.0
28	1.3					40	165	130	5.0	5.0	2.5	9.0
29	1.5					40	266	117	3.2	5.0	3.0	10
30	1.5					38	355	107	4.0	5.0	3.0	10
31	1.5	-----			-----	37	-----	93	-----	5.0	3.2	-----
TOTAL	424					1,157	2,776	8,497	1,863.2	184.8	71.3	199.4
MEAN	14.0					37.3	92.5	274	62.1	5.96	2.30	6.65
MAX	16					52	355	537	175	9.2	5.0	10
MIN	1.1					23	35	93	3.2	5.0	1.5	3.2
AC-FT	861					2,290	5,510	16,850	3,700	367	141	396

06652000 NORTH PLATTE RIVER AT ORIN, WYO.

LOCATION.--Lat 42°39'02", long 105°09'46", in SW¼SW¼ sec.17, T.31 N., R.69 W., Converse County, on right bank 630 ft downstream from bridge on U.S. Highway 87, 0.2 mile upstream from Shawnee Creek, and 1.5 miles east of Orin.

DRAINAGE AREA.--18,847 sq mi, of which 5,152 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--January, April to November 1895, April to October 1896, January 1897 to December 1898, April to November 1899, April to September 1917, April to September 1918, May to September 1924, April 1958 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Orin Junction" 1895, 1897-99 and as "at McKinley" 1917-18.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft (from topographic map). Jan. 1, 1895, to Nov. 30, 1899, and May 1 to Sept. 30, 1924, nonrecording gage at railroad bridge just upstream from U.S. Highway 87 at different datum. Apr. 1, 1917, to Sept. 30, 1918, nonrecording gage at site 2.2 miles downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 4,180 cfs June 4 (gage height, 4.91 ft); maximum gage height, 6.52 ft Dec. 8 (backwater from ice); minimum daily discharge, 410 cfs Oct. 31.
Period of record: Maximum discharge, 23,800 cfs May 15, 1965 (gage height, 10.00 ft); maximum gage height, 10.45 ft June 12, 1970; minimum daily discharge determined, 170 cfs Sept. 11-14, 1899.

REMARKS.--Records good except those for winter period, which are poor. Major regulation began after completion of Pathfinder Reservoir in April 1909. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1310: 1896, 1899. WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,260	592	1,360	900	1,150	1,790	2,180	2,860	2,230	3,380	2,130	1,330
2	1,270	800	1,330	800	1,100	1,910	2,170	2,540	2,140	3,380	1,960	1,430
3	1,280	852	1,390	800	1,300	2,000	2,170	2,340	2,180	3,420	1,870	1,380
4	1,280	830	1,360	850	1,200	2,140	2,180	2,210	2,400	3,440	1,860	1,250
5	1,380	1,420	1,360	700	1,300	2,210	2,170	1,930	3,130	3,380	1,820	1,220
6	1,450	1,320	1,280	600	1,300	2,200	2,210	1,790	2,900	3,280	1,750	1,210
7	1,410	1,260	1,460	750	1,300	2,290	2,260	1,690	2,580	3,240	1,630	1,170
8	1,270	1,290	1,300	900	1,300	2,720	2,370	2,100	2,300	3,220	1,540	1,170
9	1,230	1,300	800	1,100	1,300	2,950	2,140	2,160	2,260	3,130	1,520	1,130
10	1,240	1,330	500	1,100	1,300	2,850	1,930	2,480	2,340	3,130	1,540	1,090
11	1,250	1,340	520	1,100	1,300	2,880	1,900	3,560	2,660	3,060	1,500	1,010
12	1,240	1,350	600	1,050	1,250	3,240	1,970	3,240	2,750	3,040	1,480	1,060
13	1,240	1,350	700	1,100	1,250	3,290	2,160	2,830	2,780	3,060	1,480	1,010
14	1,250	1,360	780	1,050	1,300	3,130	2,260	2,610	2,780	3,080	1,450	845
15	1,230	1,360	900	1,100	1,300	3,130	2,240	2,240	2,950	2,530	1,460	806
16	1,250	1,400	900	1,100	1,300	2,930	2,100	1,960	3,020	2,110	1,480	782
17	1,270	1,420	850	1,150	1,350	2,740	2,110	1,870	3,040	2,070	1,440	753
18	1,290	1,390	800	1,300	1,400	2,740	2,160	1,820	3,060	2,030	1,380	729
19	1,360	1,340	1,100	1,300	1,450	2,750	2,200	1,790	3,080	1,970	1,900	720
20	1,310	1,330	1,000	1,300	1,500	2,830	2,240	2,020	3,060	1,910	1,440	725
21	1,290	1,400	1,100	1,350	1,500	2,750	2,100	2,070	3,020	1,880	1,330	629
22	1,280	1,400	1,100	1,400	1,550	2,700	1,860	1,970	3,020	1,840	1,360	549
23	1,290	1,440	1,200	1,400	1,650	2,690	1,750	1,820	3,100	1,880	1,360	491
24	1,230	1,420	1,430	1,420	1,590	2,750	1,620	1,660	3,100	1,860	1,730	477
25	1,220	1,420	1,350	1,300	1,590	2,690	1,590	1,920	3,100	1,830	1,580	488
26	1,250	1,400	1,350	1,150	1,580	2,540	2,000	2,430	3,080	2,020	1,470	491
27	986	1,390	1,350	1,100	1,580	2,430	2,020	2,590	3,150	2,070	1,340	496
28	830	1,360	1,200	900	1,630	2,400	1,910	2,670	3,220	2,130	1,300	536
29	802	1,380	1,100	1,100	1,990	2,240	2,200	2,540	3,420	2,260	1,270	497
30	553	1,360	1,100	1,200	-----	2,200	2,720	2,430	3,330	2,210	1,260	900
31	410	-----	1,100	1,150	-----	2,180	-----	2,350	-----	2,210	1,260	-----
TOTAL	36,901	38,604	33,670	33,520	40,610	80,290	62,890	70,490	85,180	80,050	47,890	26,374
MEAN	1,190	1,287	1,086	1,081	1,400	2,590	2,096	2,274	2,839	2,582	1,545	879
MAX	1,450	1,440	1,460	1,420	1,990	3,290	2,720	3,560	3,420	3,440	2,130	1,430
MIN	410	592	500	600	1,100	1,790	1,590	1,660	2,140	1,830	1,260	477
AC-FT	73,190	76,570	66,780	66,490	80,550	159,300	124,700	139,800	169,000	158,800	94,990	52,310
CAL YR 1971	TOTAL	817,744	MEAN	2,240	MAX	11,200	MIN	410	AC-FT	1,622,000		
WTR YR 1972	TOTAL	636,469	MEAN	1,739	MAX	3,560	MIN	410	AC-FT	1,262,000		

PLATTE RIVER BASIN

06652700 GLENDO RESERVOIR NEAR GLENDO, WYO.

LOCATION.--Lat 42°28'21", long 104°57'28", in SW¼ sec.24, T.29 N., R.68 W., Platte County, on right bank in gate shaft house 0.5 mile southwest of Glendo Dam and 5 miles southeast of Glendo.

DRAINAGE AREA.--19,504 sq mi, of which 5,174 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

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

GAGE.--Water-stage recorder for elevations above 4,543.50 ft. Datum of gage is 4,543.50 ft above mean sea level, datum of 1934 (adjusted 1940), levels by Bureau of Reclamation; gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum daily contents, 550,700 acre-ft May 18 (elevation, 4,637.16 ft); minimum daily, 37,910 acre-ft Sept. 26 (elevation, 4,560.42 ft).
Period of record: Maximum daily contents, 727,100 acre-ft May 24, 1971 (elevation, 4,649.08 ft); minimum daily (since appreciable storage was attained), 15,140 acre-ft Sept. 28, 1966 (elevation, 4,548.10 ft).

REMARKS.--Reservoir is formed by rock-fill dam; completed in October 1957. Storage began Oct. 17, 1957. Capacity, 795,200 acre-ft at elevation 4,653.00 ft (spillway crest). Dead storage, 11,500 acre-ft. Figures given herein represent total contents. Water is used for irrigation in North Platte River basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

4,560	36,900	4,610	278,300
4,570	64,780	4,620	363,400
4,580	100,900	4,630	464,700
4,590	146,900	4,638	561,700
4,600	206,000		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130,600	205,800	282,100	342,700	404,500	445,000	455,500	516,300	517,100	454,500	317,800	136,400
2	133,200	207,500	283,800	344,700	406,900	443,400	456,700	518,200	515,200	449,500	312,900	131,600
3	135,700	209,300	286,000	346,000	409,100	442,400	457,400	517,700	513,800	445,000	307,800	126,300
4	138,400	211,400	288,300	346,600	411,200	441,300	459,200	518,300	512,500	440,800	303,000	121,800
5	141,100	213,900	290,500	347,600	413,800	440,100	461,700	520,200	513,000	437,300	298,500	116,800
6	144,100	216,600	293,800	348,600	416,400	438,800	465,600	522,200	512,900	433,600	293,700	111,900
7	147,000	219,200	295,500	350,700	419,100	437,700	469,400	523,400	512,400	430,200	288,700	107,100
8	149,500	221,900	297,100	351,500	421,500	437,100	473,300	525,900	510,800	426,400	283,200	103,400
9	150,300	224,600	298,300	352,600	424,500	436,800	477,000	528,400	508,900	423,000	277,400	99,350
10	154,800	227,100	299,000	355,800	427,100	436,600	479,300	532,300	507,200	419,200	271,400	95,310
11	157,300	229,500	299,900	357,400	429,600	437,700	480,400	538,200	506,200	415,500	264,900	91,060
12	159,600	232,300	301,100	360,000	431,900	438,800	481,900	544,000	505,200	411,500	258,400	87,060
13	161,700	234,900	302,400	361,900	434,600	440,000	483,900	547,600	504,200	407,600	252,200	83,160
14	164,100	237,600	303,400	363,500	436,400	441,000	486,100	548,500	503,500	403,400	244,800	79,070
15	167,100	240,300	304,700	365,000	437,700	442,000	487,700	549,500	502,800	400,200	237,900	74,730
16	170,000	243,100	306,300	366,900	438,400	443,700	489,100	550,000	502,400	397,700	230,600	70,020
17	171,700	245,900	307,900	369,200	438,500	445,200	491,100	550,600	503,600	394,800	223,500	65,070
18	174,000	248,400	309,500	372,000	438,100	446,700	493,000	550,700	503,300	391,400	216,300	60,660
19	177,300	251,000	311,600	374,900	438,100	447,200	494,800	550,400	502,800	388,600	210,100	56,460
20	179,900	253,500	313,800	377,800	438,900	448,100	496,500	550,000	501,400	385,100	203,600	52,500
21	182,400	256,200	316,000	380,900	439,900	448,800	498,000	549,000	498,500	381,700	196,400	49,230
22	185,000	258,800	318,300	384,100	442,300	449,300	499,300	548,000	495,800	378,700	189,400	46,130
23	187,500	261,500	321,100	387,000	443,600	450,700	500,300	544,400	493,000	375,200	183,100	43,370
24	190,100	264,400	324,200	389,900	444,500	451,700	500,500	538,900	490,200	371,800	178,200	40,300
25	192,600	266,600	327,300	391,800	444,700	453,000	502,000	533,800	486,300	367,700	172,500	38,060
26	195,300	269,500	330,500	393,600	444,700	454,200	504,400	530,400	482,300	361,700	167,200	37,910
27	197,800	272,200	333,000	394,700	444,600	454,400	506,200	528,100	477,600	357,100	161,800	39,310
28	200,000	274,600	335,000	395,800	444,700	454,900	507,700	526,400	472,400	350,300	156,300	40,580
29	201,800	277,100	337,200	397,300	445,300	455,000	510,000	523,400	467,000	341,800	151,200	41,720
30	203,300	279,600	339,400	399,300	445,400	454,900	513,200	521,000	461,000	333,100	146,100	43,390
31	204,400	-----	341,300	401,700	-----	454,900	-----	519,000	-----	324,900	141,200	-----
MAX	204,400	279,600	341,300	401,700	445,300	455,000	513,200	550,700	517,100	454,500	317,800	136,400
MIN	130,600	205,800	282,100	342,700	404,500	436,600	455,500	516,300	461,000	324,900	141,200	37,910
(†)	4,599.75	4,610.16	4,617.56	4,625.00	4,628.23	4,629.11	4,634.17	4,634.65	4,629.67	4,615.68	4,588.90	4,562.62
(‡)	+76,400	+75,200	+61,700	+60,400	+43,600	+9,600	+58,300	+5,800	-58,000	-136,100	-183,700	-97,810

CAL YR 1971..... +59,200

WTR YR 1972..... -84,610

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

PLATTE RIVER BASIN

135

06652800 NORTH PLATTE RIVER BELOW GLENDO RESERVOIR, WYO.

LOCATION.--Lat 42°27'25", long 104°56'50", in SW¼SW¼NW¼ sec.30, T.29 N., R.67 W., Platte County, on right bank opposite Sand Draw, 1.3 miles upstream from Horseshoe Creek, 3.1 miles downstream from Glendo Dam, and 5.2 miles southeast of Glendo.

DRAINAGE AREA.--19,507 sq mi, of which 5,174 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 4,488.94 ft above mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum discharge, 6,800 cfs July 1 (gage height, 9.76 ft); minimum daily, 0.98 cfs Oct. 16.

Period of record: Maximum discharge, 9,200 cfs June 19, 1959 (gage height, 10.94 ft); minimum daily, 0.80 cfs Oct. 5, Dec. 3, 1966.

REMARKS.--Records good except those below 40 cfs, which are poor. Flow completely regulated by Glendo Reservoir since Oct. 17, 1957. (See sta 06652700.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Thirty-three discharge measurements furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	1.9	1.9	2.2	3.5	1,920	1,490	882	3,200	6,710	5,470	3,830
2	2.5	1.7	1.9	2.0	3.2	2,510	1,480	1,380	3,180	5,810	4,400	3,810
3	1.3	1.6	2.0	2.0	3.0	2,540	1,390	2,470	3,210	5,450	4,220	3,810
4	1.7	1.5	1.9	2.0	3.5	2,540	1,070	1,690	3,150	5,190	4,110	3,830
5	1.9	1.7	2.0	2.2	10	2,550	530	810	2,980	4,990	4,020	3,840
6	1.3	1.6	2.2	2.0	10	2,490	12	732	2,920	4,900	4,020	3,800
7	2.5	1.9	2.3	3.5	15	2,530	11	1,130	2,970	4,850	4,020	3,540
8	4.1	2.6	2.5	3.1	4.8	2,570	11	1,070	3,210	4,810	4,130	3,110
9	1.7	2.0	2.5	2.5	3.0	2,610	11	966	3,210	4,740	4,430	3,190
10	1.5	1.9	2.3	2.6	2.7	2,440	520	594	3,200	4,780	4,510	3,190
11	1.7	1.9	2.2	2.6	3.0	1,880	1,020	215	3,200	4,800	4,650	3,180
12	6.2	1.9	2.2	2.6	3.2	2,140	1,030	312	3,210	4,800	4,670	3,160
13	5.3	2.0	2.2	2.8	12	2,170	1,060	834	3,210	4,800	4,740	3,020
14	3.7	1.9	2.2	1.9	398	2,140	1,120	2,090	3,200	4,830	4,870	2,990
15	2.9	1.8	2.2	1.5	660	2,180	1,160	1,740	3,210	3,910	4,980	3,060
16	.98	1.7	2.0	2.2	917	1,640	1,110	1,700	3,200	3,340	4,980	3,180
17	1.2	1.6	2.2	3.2	1,340	1,620	1,110	1,670	2,350	3,360	5,010	3,310
18	4.1	1.6	2.2	3.9	1,510	1,660	1,080	1,930	3,200	3,370	5,010	3,030
19	4.6	1.8	2.2	2.9	980	2,420	1,110	2,010	3,190	3,380	5,030	2,830
20	2.0	2.0	2.2	2.8	987	2,250	1,110	2,290	3,620	3,410	4,980	2,800
21	1.1	1.9	2.2	2.9	987	2,160	1,110	2,590	4,380	3,420	4,920	2,330
22	4.6	1.9	2.2	2.6	980	2,040	1,110	2,610	4,390	3,440	4,870	2,170
23	2.0	2.2	2.5	2.6	980	1,910	1,090	3,770	4,380	3,460	4,740	2,020
24	2.0	2.0	2.3	2.9	1,150	1,940	1,110	4,590	4,450	3,460	4,300	2,020
25	2.3	2.0	2.3	2.3	1,440	1,930	1,100	4,610	4,710	4,380	4,430	1,790
26	2.5	2.0	2.0	2.3	1,480	1,770	1,090	4,040	5,030	4,300	4,210	558
27	2.3	2.0	2.0	2.5	1,480	2,040	917	3,770	5,390	4,180	4,130	3.9
28	2.0	2.0	2.2	3.0	1,480	1,960	917	3,440	5,550	5,530	4,050	7.6
29	2.0	2.0	2.0	3.5	1,480	2,070	924	3,980	6,030	6,360	3,910	9.0
30	2.0	2.0	2.0	3.5	-----	2,020	774	3,690	6,450	6,360	3,840	4.4
31	2.0	-----	2.3	3.5	-----	1,930	-----	3,290	-----	6,380	3,840	-----
TOTAL	80.98	56.6	67.3	82.1	18,325.9	66,670	27,577	66,895	113,670	143,500	139,490	77,422.9
MEAN	2.61	1.89	2.17	2.65	632	2,151	919	2,158	3,789	4,629	4,500	2,581
MAX	6.2	2.6	2.5	3.9	1,510	2,630	1,490	4,610	6,450	6,710	5,470	3,840
MIN	.98	1.5	1.9	1.5	2.7	1,620	11	215	2,350	3,340	3,840	3.9
AC-FT	161	112	133	163	36,350	132,200	54,700	132,700	225,500	284,600	276,700	153,600

CAL YR 1971 TOTAL 796,412.78 MEAN 2,192 MAX 6,970 MIN .98 AC-FT 1,580,000
WTR YR 1972 TOTAL 653,837.78 MEAN 1,786 MAX 6,710 MIN .98 AC-FT 1,297,000

PLATTE RIVER BASIN

06655500 GUERNSEY RESERVOIR NEAR GUERNSEY, WYO.

LOCATION.--Lat 42°17'23", long 104°45'48", in NE¼NW¼ sec.27, T.27 N., R.66 W., Platte County, on gate structure at right end of dam on North Platte River and 1.2 miles northwest of Guernsey.

DRAINAGE AREA.--20,183 sq mi, of which 5,175 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 4,370.00 ft above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Prior to Sept. 20, 1966, non-recording gages at same datum.

EXTREMES.--Current year: Maximum daily contents, 41,300 acre-ft May 10 (elevation, 4,418.31 ft); minimum daily, 580 acre-ft Oct. 14-16 (elevation, 4,375.96 ft).

Period of record: Maximum daily contents, 73,240 acre-ft Oct. 17, 1929 (elevation, 4,420.95 ft); minimum daily, 30 acre-ft Oct. 5, 6, 1958 (elevation, 4,361.50 ft) and Oct. 18 to Nov. 3, 1969 (elevation, 4,367.70 ft).

REMARKS.--Reservoir is formed by rock-fill dam; completed in July 1927. Capacity, 45,230 acre-ft at elevation, 4,420 ft (top of spillway gate). Dead storage is negligible. Figures given herein represent total contents. Usable contents published prior to October 1956. Water is used for irrigation in eastern Wyoming and western Nebraska, and for development of power.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

4,376	580	4,395	5,870	4,410	24,140
4,380	1,060	4,400	9,840	4,415	34,040
4,385	2,010	4,405	15,940	4,419	42,880
4,390	3,530				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,670	2,080	4,770	7,200	9,480	25,150	33,730	34,870	35,040	33,850	20,200	20,250
2	15,560	2,140	4,850	7,300	9,530	26,180	33,730	35,190	34,680	34,260	20,760	20,610
3	13,420	2,220	4,940	7,350	9,580	27,110	34,210	38,540	34,170	34,210	20,950	21,120
4	11,320	2,320	5,020	7,430	9,650	27,960	34,320	40,800	34,150	34,300	21,230	21,920
5	9,210	2,380	5,080	7,490	9,690	29,030	35,020	41,190	33,900	34,450	21,260	23,110
6	7,080	2,450	5,180	7,560	9,740	29,840	35,340	40,390	34,000	34,550	21,190	24,530
7	4,940	2,540	5,210	7,640	9,830	30,980	35,470	40,820	33,580	34,660	20,760	25,880
8	3,870	2,640	5,230	7,720	9,910	32,250	35,580	40,660	33,310	34,680	20,020	26,280
9	2,710	2,720	5,340	7,810	10,010	33,380	35,690	41,210	32,710	34,580	19,930	26,990
10	2,020	2,800	5,410	7,880	10,070	34,530	34,470	41,300	32,100	34,490	19,770	27,820
11	1,470	2,890	5,500	7,970	10,150	34,550	35,000	40,820	31,650	34,400	19,600	28,490
12	950	2,980	5,560	8,030	10,210	34,260	34,680	40,080	31,140	34,260	19,360	29,290
13	600	3,070	5,650	8,100	10,300	34,660	34,600	39,500	30,720	33,980	19,110	29,940
14	590	3,160	5,730	8,210	10,370	34,940	34,550	40,170	30,900	33,650	19,110	30,040
15	580	3,240	5,820	8,240	11,240	35,190	34,550	40,500	31,550	32,190	19,230	30,250
16	580	3,360	5,870	8,280	12,830	35,090	34,530	40,530	32,080	29,050	19,410	30,310
17	620	3,460	5,960	8,340	15,360	34,280	34,530	40,410	31,120	25,840	19,570	30,470
18	770	3,570	6,040	8,430	18,750	33,710	34,380	40,100	31,770	22,620	19,820	30,390
19	850	3,660	6,120	8,520	20,900	33,330	34,430	39,770	32,290	19,600	20,060	29,660
20	1,010	3,760	6,210	8,650	22,870	33,920	34,530	40,190	32,290	16,670	20,430	28,870
21	1,110	3,860	6,290	8,720	24,750	34,230	34,640	40,590	33,620	13,970	20,780	27,710
22	1,200	3,950	6,380	8,800	26,030	34,530	34,660	39,740	34,190	11,300	21,040	26,680
23	1,300	4,050	6,450	8,910	26,700	33,980	34,640	39,320	34,280	8,520	21,500	25,180
24	1,380	4,150	6,510	8,980	26,780	33,960	34,660	39,010	34,080	5,600	21,240	23,500
25	1,460	4,260	6,670	9,040	26,880	33,520	34,810	39,540	33,900	4,470	21,370	22,210
26	1,550	4,340	6,770	9,100	26,840	33,170	35,090	38,920	33,830	4,000	21,380	20,150
27	1,630	4,440	6,790	9,180	26,840	32,730	35,020	37,790	33,810	3,720	21,280	16,810
28	1,720	4,520	6,880	9,220	26,740	32,790	34,720	35,810	33,730	4,640	21,120	13,790
29	1,810	4,610	6,980	9,260	26,080	32,770	34,680	35,040	33,580	8,890	20,850	11,580
30	1,900	4,690	7,050	9,280	-----	33,020	35,170	34,830	33,520	12,480	20,520	9,420
31	1,980	-----	7,120	9,350	-----	33,190	-----	35,450	-----	16,860	20,200	-----
MAX	17,670	4,690	7,120	9,350	26,880	35,190	35,580	41,300	35,040	34,680	21,500	30,470
MIN	580	2,080	4,770	7,200	9,480	25,150	33,730	34,830	30,720	3,720	19,110	9,420
(†)	4,384.88	4,392.76	4,396.88	4,399.49	4,411.04	4,414.59	4,415.53	4,415.66	4,414.75	4,405.63	4,407.75	4,399.57
(‡)	-17,680	+2,710	+2,430	+2,230	+16,730	+7,110	+1,980	+280	-1,930	-16,660	+3,340	-10,780

CAL YR 1971..... +2,800

WTR YR 1972..... -10,240

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	1.7	1.6	1.6	2.5	2,020	1,490	928	3,450	6,380	4,450	3,820
2	1,020	1.7	1.6	1.6	2.1	2,020	1,490	936	3,480	5,830	4,400	3,620
3	1,020	1.7	1.6	1.6	2.1	2,070	1,250	944	3,550	5,520	4,270	3,570
4	1,020	1.7	1.6	1.6	2.1	2,070	1,020	944	3,380	5,200	4,190	3,410
5	1,030	1.5	2.1	2.1	2.1	2,050	726	1,100	3,160	5,000	4,140	3,260
6	1,030	1.7	2.1	2.1	2.1	2,070	12	1,150	3,140	4,900	4,180	3,110
7	1,020	2.1	2.1	2.1	2.1	1,990	10	1,150	3,160	4,900	4,320	2,980
8	873	2.1	1.6	2.1	1.6	1,980	7.0	1,160	3,410	4,900	4,490	2,910
9	635	2.1	2.1	2.1	1.6	1,990	87	1,140	3,580	4,900	4,530	2,860
10	422	2.1	1.6	2.1	2.1	1,990	579	1,130	3,550	4,920	4,590	2,830
11	380	2.1	1.6	2.5	2.1	2,010	782	1,130	3,520	4,980	4,760	2,830
12	392	2.1	1.6	3.0	2.1	2,010	1,020	1,140	3,530	5,000	4,800	2,830
13	350	2.1	1.6	2.1	2.1	2,010	1,090	1,250	3,520	5,100	4,820	2,830
14	106	2.1	1.6	2.1	2.5	2,010	1,090	1,830	3,120	5,120	4,860	2,950
15	4.4	2.1	1.6	2.1	2.5	2,020	1,090	1,910	3,010	5,100	4,900	3,010
16	2.5	2.1	1.6	2.1	4.8	2,010	1,090	1,990	2,980	5,080	4,880	3,140
17	2.5	1.6	1.6	3.0	43	2,020	1,090	2,020	2,950	5,080	4,860	3,240
18	2.1	1.6	1.6	3.0	18	2,030	1,100	2,190	2,970	5,040	4,880	3,260
19	1.6	2.1	1.6	3.0	18	2,030	1,060	2,260	2,980	5,020	4,880	3,290
20	1.5	2.5	1.6	3.0	12	2,030	1,050	2,380	3,380	4,940	4,840	3,290
21	1.5	2.5	1.6	2.5	3.0	2,040	1,050	2,570	3,760	4,900	4,800	3,030
22	1.4	2.1	1.6	2.5	320	2,030	1,060	3,040	4,160	4,860	4,700	2,860
23	1.4	2.1	1.6	2.1	607	2,030	1,060	4,000	4,380	4,860	4,660	2,840
24	1.4	2.1	2.1	2.1	1,000	2,040	1,060	4,610	4,550	4,900	4,470	2,840
25	1.4	2.1	2.1	1.6	1,360	2,100	1,070	4,700	4,740	4,880	4,380	2,620
26	1.4	2.1	2.1	1.6	1,510	2,100	1,070	4,490	4,980	4,740	4,280	2,290
27	1.4	2.1	2.1	1.6	1,500	2,050	1,070	4,490	5,280	4,550	4,230	1,870
28	1.6	1.6	2.1	1.6	1,510	1,970	1,080	4,470	5,580	4,510	4,180	1,560
29	1.6	1.6	2.1	2.1	1,810	1,990	1,020	4,230	5,900	4,530	4,090	1,140
30	1.6	1.6	2.1	2.1	-----	1,990	928	3,710	6,250	4,490	4,030	1,120
31	1.6	-----	1.6	2.5	-----	1,870	-----	3,460	-----	4,510	4,010	-----
TOTAL	10,388.9	58.7	55.1	67.2	9,747.5	62,640	27,601.0	72,452	115,400	154,640	139,870	85,210
MEAN	335	1.96	1.78	2.17	336	2,021	920	2,337	3,847	4,988	4,512	2,840
MAX	1,060	2.5	2.1	3.0	1,810	2,100	1,490	4,700	6,250	6,380	4,900	3,820
MIN	1.4	1.5	1.6	1.6	1.6	1,870	7.0	928	2,950	4,490	4,010	1,120
AC-FT	20,610	116	109	133	19,330	124,200	54,750	143,700	228,900	306,700	277,400	165,000
CAL YR 1971	TOTAL	858,908.2	MEAN	2,353	MAX	7,920	MIN	1.3	AC-FT	1,704,000		
WTR YR 1972	TOTAL	678,130.4	MEAN	1,853	MAX	6,380	MIN	1.4	AC-FT	1,345,000		

PLATTE RIVER BASIN

06657000 NORTH PLATTE RIVER AT RECORDER STATION, BELOW WHALEN, WYO.

LOCATION.--Lat 42°14'20", long 104°36'29", in NE¼SW¼ sec.12, T.26 N., R.65 W., Goshen County, on left bank 0.2 mile downstream from Cottonwood Draw, 2.5 miles downstream from Whalen Dam, and 4.8 miles northwest of Fort Laramie.

DRAINAGE AREA.--20,384 sq mi, of which 5,178 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing. Area at site used prior to Apr. 16, 1938, 20,277 sq mi.

PERIOD OF RECORD.--May 1909 to current year. Prior to Apr. 16, 1938, published as "below Whalen."

GAGE.--Water-stage recorder. Altitude of gage is 4,250 ft (from topographic map). Prior to Apr. 16, 1938, nonrecording gages at Whalen Dam and canals 2.5 miles upstream at different datums. Apr. 16, 1938, to Nov. 17, 1955, water-stage recorder at site 200 ft downstream, and Nov. 18, 1955 to Feb. 16, 1972, at present site at datum 1.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 3,080 cfs July 1 (gage height, 4.70 ft); minimum daily, 1.0 cfs Jan. 15.

Period of record: Maximum discharge determined, 22,000 cfs June 26, 1955 (gage height, 9.85 ft), from rating curve extended above 4,500 cfs on basis of studies of peak flow measurements of upstream floods; no flow at times in 1910, 1916, 1925-27, 1962-64, 1967, 1970-71.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated by Whalen Dam 2.5 miles upstream. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Thirty-two discharge measurements furnished by Bureau of Reclamation and State of Nebraska.

REVISIONS (WATER YEARS).--WSP 1310: 1924. WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	13	7.0	7.0	2.5	2,000	1,540	130	1,010	3,000	1,060	636
2	174	12	7.0	7.0	2.0	2,030	1,510	136	967	2,600	1,000	532
3	162	12	6.0	5.0	1.9	2,060	1,450	136	1,070	2,270	934	576
4	156	12	5.0	2.5	2.5	2,060	934	136	1,120	1,910	860	471
5	150	11	5.0	4.0	3.0	2,060	854	241	1,010	1,670	850	429
6	132	11	5.0	4.0	2.5	2,060	156	315	1,100	1,510	860	338
7	120	11	4.0	4.5	2.5	1,980	72	285	1,130	1,500	934	259
8	168	11	3.0	4.5	3.0	1,980	51	270	1,400	1,470	1,020	214
9	201	11	3.5	4.0	2.5	1,990	48	280	1,610	1,420	1,060	176
10	339	12	4.0	3.5	2.5	2,000	205	280	1,600	1,420	1,120	156
11	314	11	4.0	3.0	2.0	2,000	176	262	1,600	1,490	1,270	133
12	290	12	5.0	2.0	2.5	2,000	194	242	1,650	1,470	1,290	124
13	306	12	7.0	1.3	2.5	2,000	210	234	1,960	1,530	1,290	112
14	180	11	7.0	1.1	3.0	2,000	234	206	2,000	1,560	1,320	202
15	86	12	8.0	1.0	3.0	2,020	202	202	2,080	1,570	1,360	280
16	49	13	9.0	1.5	3.0	2,020	180	226	2,080	1,530	1,370	362
17	39	12	9.0	3.5	3.0	2,030	194	226	2,080	1,530	1,370	536
18	37	11	9.0	6.0	20	2,030	198	242	2,060	1,470	1,370	536
19	33	10	8.0	5.0	21	2,050	173	250	2,030	1,420	1,370	544
20	30	10	8.0	5.0	19	2,060	142	230	2,060	1,360	1,340	544
21	27	10	9.0	5.6	15	2,050	144	347	2,150	1,320	1,280	387
22	24	9.4	8.0	4.5	158	2,050	142	677	2,280	1,250	1,240	194
23	22	8.4	9.0	4.5	435	2,060	139	1,620	2,320	1,270	1,200	190
24	20	8.0	8.0	4.0	800	2,060	142	2,200	2,420	1,320	1,070	198
25	18	8.5	7.0	4.0	1,200	2,100	139	2,380	2,420	1,340	978	210
26	16	8.0	6.5	3.0	1,320	2,120	159	2,160	2,340	1,280	901	214
27	16	8.5	6.0	2.5	1,420	2,090	156	2,160	2,380	1,230	880	230
28	16	8.0	7.0	3.0	1,460	2,020	144	2,180	2,500	1,180	880	230
29	16	8.0	7.6	3.0	1,680	2,020	142	1,960	2,570	1,170	750	187
30	14	8.0	7.5	2.5	-----	2,020	144	1,460	2,860	1,110	710	163
31	14	-----	7.0	2.5	-----	1,990	-----	1,130	-----	1,110	720	-----
TOTAL	3,391	314.8	206.1	114.5	8,591.9	63,010	10,174	22,803	55,857	47,280	33,657	9,422
MFAN	109	10.5	6.65	3.69	296	2,033	339	736	1,862	1,525	1,086	314
MAX	339	13	9.0	7.0	1,680	2,120	1,540	2,380	2,860	3,000	1,370	636
MIN	14	8.0	3.0	1.0	1.9	1,980	48	130	967	1,110	710	112
AC-FT	6,730	624	409	227	17,040	125,000	20,180	45,230	110,800	93,780	66,760	18,690

CAL YR 1971 TOTAL 487,446.32 MEAN 1,335 MAX 6,850 MIN 0 AC-FT 966,800
WTR YR 1972 TOTAL 254,821.30 MEAN 696 MAX 3,000 MIN 1.0 AC-FT 505,400

NOTE.--No gage-height record Oct. 19 to Feb. 17.

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LOCATION.--Lat 40°48'02", long 105°52'40", in NW¼NW¼ sec.36, T.10 N., R.76 W., Larimer County, on left bank 200 ft downstream from bridge on county road, 350 ft downstream from Nunn Creek, 1,300 ft upstream from Stub Creek, and 3.0 miles east of Glendevy.

PERIOD OF RECORD.--June 1904 to October 1905, August 1910 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Glendevay" 1905, 1910-18.

EXTREMES.--Current year: Maximum discharge, 775 cfs June 12 (gage height, 3.06 ft); minimum daily, 16 cfs many days.

Period of record: Maximum discharge, 2,240 cfs June 9, 1923 (gage height, 4.55 ft, site and datum then in use, from floodmarks), from rating curve extended above 1,400 cfs; minimum daily recorded, 5.0 cfs Feb. 14, 15, 1911, but may have been less during winter periods of no gage-height record.

REVISIONS (WATER YEARS).--WSP 469: 1911-12. WSP 506: Drainage area. WSP 1310: 1905, 1914. WSP 1918: 1918 (monthly runoff).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	26	19	18	16	18	16	46	453	87	31	63
2	37	27	20	17	16	19	16	41	477	79	30	60
3	37	27	18	18	17	17	16	41	531	70	30	55
4	41	25	18	19	17	19	17	45	583	63	48	50
5	40	23	19	19	18	18	21	46	573	57	63	46
6	39	24	17	20	18	18	28	42	457	52	56	54
7	36	25	18	20	17	18	26	39	504	49	55	55
8	35	24	16	20	17	18	29	46	708	44	53	53
9	33	25	19	20	17	19	32	49	663	40	52	48
10	32	23	18	19	16	21	32	54	666	39	50	49
11	31	22	18	18	16	23	34	57	674	40	49	48
12	30	20	19	18	16	24	50	53	673	41	48	44
13	29	20	20	17	16	24	37	50	588	34	47	41
14	28	18	22	17	17	23	34	52	536	29	46	39
15	27	19	20	18	17	24	27	61	495	26	49	37
16	27	20	19	18	17	23	31	75	466	22	49	34
17	27	18	18	18	17	25	37	94	290	24	49	32
18	29	23	19	18	18	27	35	119	342	30	46	31
19	26	20	19	17	19	27	31	140	304	29	44	37
20	29	18	19	17	18	23	27	184	273	26	51	55
21	31	18	19	17	18	23	24	249	237	27	45	40
22	31	18	19	17	18	27	27	214	177	26	43	37
23	28	18	18	17	18	32	29	187	220	21	41	34
24	28	16	18	19	18	26	32	198	177	20	53	32
25	28	18	19	18	18	22	38	228	142	20	57	31
26	27	19	19	18	18	22	39	265	122	22	51	30
27	26	17	19	18	18	20	30	299	109	30	46	29
28	23	19	19	17	18	18	40	325	99	40	43	34
29	19	18	19	17	18	19	51	378	92	36	51	40
30	22	20	19	16	-----	22	57	409	91	32	50	36
31	25	-----	18	16	-----	17	-----	452	-----	31	43	-----
TOTAL	940	628	581	556	502	676	943	4,538	11,722	1,186	1,469	1,274
MEAN	30.3	20.9	18.7	17.9	17.3	21.8	31.4	146	391	38.3	47.4	42.5
MAX	41	27	22	20	19	32	57	452	708	87	63	63
MIN	19	16	16	16	16	17	16	39	91	20	30	29
AC-FT	1,860	1,250	1,150	1,100	996	1,340	1,870	9,000	23,250	2,350	2,910	2,530
WTR YR 1971	TOTAL	36,364	MEAN	99.6	MAX	887	MIN	15	AC-FT	72,130		
CAL YR 1972	TOTAL	25,015	MEAN	68.3	MAX	708	MIN	16	AC-FT	49,620		

PLATTE RIVER BASIN

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WYO.

LOCATION.--River: Lat 41°08'17", long 105°58'49", in NW¼SE¼ sec.36, T.14 N., R.77 W., Albany County, on left bank 100 ft upstream from diversion dam for Pioneer Canal, 2.2 miles downstream from Fox Creek, 2.5 miles northeast of Woods, and 23 miles southwest of Laramie.

Canal: Lat 41°08'21", long 105°58'45", in SE¼NE¼ sec.36, T.14 N., R.77 W., Albany County, on left bank 400 ft downstream from headgate.

DRAINAGE AREA.--434 sq mi. Drainage area at mouth, 4,565 sq mi.

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--River: Water-stage recorder and concrete control. Datum of gage is 7,388.99 ft above mean sea level. Apr. 16 to Nov. 15, 1912, nonrecording gage and Nov. 16, 1912, to Sept. 22, 1915, water-stage recorder 90 ft downstream between dam crest and canal headgates at datum 1.00 ft higher. Sept. 23, 1915, to Sept. 30, 1924, Apr. 19 to Sept. 30, 1927, and Apr. 11, 1932, to July 13, 1950, water-stage recorder at site 50 ft downstream (prior to Oct. 1, 1935, at datum 1.00 ft higher) at present datum.

Canal: Water-stage recorder and Parshall flume. Altitude of gage is 7,390 ft (from topographic map). Apr. 16, 1912, to Apr. 10, 1923, nonrecording gage; Apr. 11, 1923, to Sept. 30, 1924 and Apr. 19 to June 9, 1927, water-stage recorder; June 10 to Sept. 30, 1927, and Apr. 11, 1932, to May 8, 1938, nonrecording gage; May 9, 1938, to Apr. 26, 1966, water-stage recorder at site 1.5 miles downstream at different datums. Apr. 27, 1966, to May 8, 1967, at present site, at datum 0.06 ft lower.

EXTREMES (combined flow river and canal).--Current year: Maximum discharge, 1,490 cfs June 5; minimum daily, 29 cfs Jan. 4.

Period of record: Maximum discharge, 5,060 cfs June 10, 1923 (river discharge by computation of peak flow over dam); minimum daily (1950-72), 10 cfs Aug. 30, Sept. 2-5, 1954.

REMARKS.--Records good except those for winter period, which are poor. Pioneer Canal diverts from left bank of river at diversion dam 100 ft downstream for irrigation in vicinity of Laramie. Records show combined flow of river and canal. Three small reservoirs above station in Wyoming (total capacity, about 600 acre-ft) for irrigation, stock water, and domestic use. Diversions for irrigation of about 5,200 acres above station. Transbasin diversions above station to Cache la Poudre River and tributaries (see page 158).

REVISIONS (WATER YEARS).--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	58	40	35	30	70	47	107	864	196	71	89
2	77	53	40	33	30	70	51	122	896	182	79	130
3	75	58	39	32	32	70	55	116	1,100	169	84	108
4	75	63	38	29	34	65	54	117	1,180	148	84	94
5	82	53	37	34	36	70	59	140	1,440	137	100	85
6	80	48	36	39	38	79	74	155	1,250	130	106	79
7	75	51	36	41	40	79	81	155	1,150	117	97	85
8	73	53	35	41	40	79	84	164	1,200	112	95	81
9	71	53	34	41	38	80	93	173	1,360	105	95	74
10	69	58	34	41	35	89	93	186	1,280	91	89	71
11	66	58	34	43	33	104	96	198	1,230	103	85	72
12	66	58	34	42	34	103	122	195	1,230	98	84	71
13	63	58	34	36	36	101	120	183	1,110	87	80	64
14	61	54	34	38	38	98	108	183	984	73	74	59
15	60	49	34	39	40	89	91	182	909	70	74	57
16	61	44	36	41	41	90	93	210	843	65	79	51
17	62	38	36	42	41	98	105	297	763	63	78	50
18	64	36	39	44	40	98	112	386	840	70	75	48
19	69	34	41	44	44	104	103	454	671	65	74	50
20	64	34	43	44	47	86	91	514	573	67	78	59
21	69	36	45	42	45	84	82	667	506	65	83	73
22	72	38	47	44	52	86	84	727	452	60	74	62
23	68	38	48	42	51	89	80	591	443	57	72	55
24	68	38	48	43	45	81	85	546	448	55	89	52
25	68	38	50	41	47	75	93	564	356	61	120	49
26	69	40	47	41	47	68	99	656	304	63	105	47
27	66	39	45	40	53	56	109	731	252	67	87	47
28	64	40	43	36	60	48	99	750	227	73	79	51
29	48	40	41	34	65	46	87	750	215	74	76	56
30	53	40	39	33	-----	43	97	778	211	65	81	59
31	58	-----	37	30	-----	46	-----	847	-----	60	77	-----
TOTAL	2,092	1,398	1,224	1,205	1,220	2,444	2,647	11,844	24,287	2,848	2,624	2,028
MEAN	67.5	46.6	39.5	38.9	42.1	78.8	88.2	382	810	91.9	84.6	67.6
MAX	82	63	50	44	65	104	122	847	1,440	196	120	130
MIN	48	34	34	29	30	43	47	107	211	55	71	47
AC-FT	4,150	2,770	2,430	2,390	2,420	4,850	5,250	23,490	48,170	5,650	5,200	4,020

CAL YR 1971 TOTAL 50,801 MEAN 249 MAX 1,760 MIN 20 AC-FT 180,100
WTR YR 1972 TOTAL 55,861 MEAN 153 MAX 1,440 MIN 29 AC-FT 110,800

PLATTE RIVER BASIN

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06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE

LOCATION.--Lat 40°59'44", long 105°45'36", in NE¼NW¼ sec.1, T.12 N., R.75 W., Larimer County, Colorado, on left bank 200 ft south of Colorado-Wyoming State line, and 17 miles southwest of Tie Siding.

DRAINAGE AREA.--29.2 sq mi.

PERIOD OF RECORD.--October 1968 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 7,620 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 61 cfs June 18 (gage height, 3.69 ft); minimum daily during period of operation, 0.13 cfs July 26-28.

Period of record: Maximum discharge, 250 cfs June 15, 1970 (gage height, 4.41 ft); minimum daily during period of operation, 0.13 cfs July 26-28, 1972.

REMARKS.--Records good. Natural flow affected by diversion above station to Cache la Poudre River basin through Wilson Supply ditch (see page 158). Water imported above station from Deadman Creek in Laramie River basin is redirected through Wilson Supply ditch but is wasted down Sand Creek at times. Diversions for irrigation of about 170 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4						4.0	8.5	35	7.0	.82	2.8
2	3.2						3.4	9.0	35	6.5	1.0	4.5
3	3.2						3.4	10	38	6.0	1.2	3.0
4	3.2						3.4	11	37	5.5	1.2	2.2
5	3.2						4.0	13	30	5.0	1.3	1.6
6	3.4						5.6	14	27	4.5	1.2	1.3
7	3.4						5.9	13	34	4.0	1.1	1.1
8	3.2						5.6	16	34	3.8	.92	1.2
9	3.2						5.9	16	33	3.5	1.1	1.2
10	3.2						5.9	15	35	3.0	1.3	1.3
11	3.2						5.9	18	30	2.5	1.1	1.3
12	3.2						7.5	17	27	2.0	.92	1.3
13	3.0						8.0	16	26	1.8	.50	1.3
14	2.8						7.5	14	26	1.6	.37	1.1
15	2.6						6.0	14	26	1.1	.50	1.0
16	2.6						6.0	17	26	.92	.72	.82
17	2.8						6.5	20	29	.72	.72	.72
18	3.2						7.0	27	46	.61	.72	.61
19	3.2						6.0	35	30	.40	.82	.72
20	3.2						5.9	41	24	.33	.82	.82
21	3.0						5.1	38	18	.37	.82	.92
22	3.2						5.4	35	18	.30	.92	1.0
23	3.4						5.1	31	15	.23	.82	1.0
24	3.2						5.1	32	13	.23	2.8	1.0
25	3.2						5.1	32	13	.16	4.8	1.0
26	3.2						5.4	35	10	.13	2.8	1.0
27	3.2						5.6	37	9.0	.13	2.0	1.0
28	3.0						6.5	35	8.5	.13	1.6	1.1
29	2.6						7.0	33	8.0	.72	1.6	1.3
30	2.6				-----		7.5	34	7.5	.92	1.6	1.3
31	2.8	-----			-----			34	-----	.82	1.3	-----
TOTAL	95.8						171.2	720.5	748.0	64.92	39.39	40.51
MEAN	3.09						5.71	23.2	24.9	2.09	1.27	1.35
MAX	3.4						8.0	41	46	7.0	4.8	4.5
MIN	2.6						3.4	8.5	7.5	.13	.37	.61
AC-FT	190						340	1,430	1,480	129	78	80

PLATTE RIVER BASIN

06660000 LARAMIE RIVER AT LARAMIE, WYO.

LOCATION.--Lat 41°19'36", long 105°36'27", in NE¼SW¼ sec.29, T.16 N., R.73 W., Albany County, on left bank 400 ft upstream from bridge on access road to Interstate Highway 80, 1.2 miles northwest of city hall in Laramie, and 5 miles downstream from Fivemile Creek.

DRAINAGE AREA.--1,071 sq mi, of which 151 sq mi is probably noncontributing. Drainage area at mouth, 4,565 sq mi.

PERIOD OF RECORD.--April 1933 to October 1971, April to September 1972 (discontinued). Irrigation seasons only prior to 1952. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 7,125 ft (from river-profile map). Prior to Apr. 10, 1936, nonrecording gage on bridge on State Highways 130 and 230, 1.4 miles upstream at different datum. Apr. 10, 1936, to Apr. 7, 1951, nonrecording gage, and Apr. 8, 1951, to Apr. 22, 1965, water-stage recorder on bridge pier, at present site and datum.

AVERAGE DISCHARGE.--20 years (1951-71), 105 cfs (76,070 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,190 cfs June 7 (gage height, 6.83 ft); minimum daily during period of operation, 12 cfs Sept. 18.
Period of record: Maximum discharge, 3,250 cfs June 15, 1957 (gage height, 6.83 ft); minimum daily, 0.1 cfs Sept. 7-9, 1950.

REMARKS.--Records good. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 45,000 acres above station, and return flow from irrigated area.

REVISIONS.--WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41						38	60	379	125	24	31
2	39						32	56	436	115	21	29
3	38						31	52	482	110	22	37
4	39						28	49	563	102	23	44
5	38						26	45	752	95	21	42
6	38						24	42	960	90	20	37
7	38						23	43	1,140	83	18	34
8	38						18	40	1,160	77	20	29
9	36						16	38	1,040	71	19	26
10	34						16	37	1,000	66	21	21
11	34						16	43	1,000	60	22	18
12	33						17	48	1,000	56	21	16
13	33						16	51	960	52	19	15
14	31						27	50	931	48	18	14
15	31						35	48	778	44	18	14
16	30						40	49	676	42	17	14
17	30						45	46	615	40	21	13
18	36						45	47	605	38	18	12
19	52						45	68	545	34	18	13
20	52						45	91	511	32	18	14
21	54						43	127	404	32	16	14
22	54						40	190	332	31	16	14
23	56						40	275	257	28	18	14
24	57						40	273	206	27	20	14
25	57						40	222	192	25	18	16
26	56						40	255	171	24	20	16
27	57						42	264	161	24	28	16
28	55						46	297	150	24	27	16
29	32						50	326	140	23	24	15
30	52				-----		56	342	132	22	23	15
31	50	-----			-----		-----	347	-----	21	27	-----
TOTAL	1,321						1,020	3,921	17,686	1,661	636	623
MEAN	42.6						34.0	126	590	53.6	20.5	20.8
MAX	57						56	347	1,160	125	28	44
MIN	30						16	37	132	21	16	12
AC-FT	2,620						2,020	7,780	35,080	3,290	1,260	1,240

PLATTE RIVER BASIN

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06660500 LARAMIE RIVER AT TWO RIVERS, WYO.

LOCATION.--Lat 41°28'22", long 105°43'30", in NW¼NE¼SW¼ sec.5, T.17 N., R.74 W., Albany County, on left bank at old Two Rivers Post Office, 0.6 mile upstream from Little Laramie River, and 14 miles northwest of Laramie.

DRAINAGE AREA.--1,224 sq mi, of which 188 sq mi is probably noncontributing. Drainage area at mouth, 4,565 sq mi.

PERIOD OF RECORD.--October 1908 to October 1927, October 1932 to October 1971, April to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 7,058.85 ft above mean sea level. See WSP 1918 for history of changes prior to May 1, 1920.

AVERAGE DISCHARGE.--58 years (1908-27, 1932-71), 111 cfs (80,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 836 cfs June 9 (gage height, 5.05 ft); minimum daily during period of operation, 4.2 cfs May 19.

Period of record: Maximum discharge, 3,930 cfs June 13, 1923 (gage height, 7.48 ft), from rating curve extended above 2,500 cfs; no flow Sept. 22-25, 1911, Aug. 17 to Sept. 6, Sept. 9-22, 1939.

REMARKS.--Records good. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions above station for irrigation of about 51,200 acres, of which about 3,200 acres lies below station, and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during winter when station was not in operation are given below:

Nov. 29 . .	61.7	Feb. 10 . .	37.3
Dec. 7 . .	43.9	Mar. 10 . .	165
Jan. 17 . .	22.0		

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1310: 1909-11, 1920(M). WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39						45	8.5	209	117	18	31
2	31						45	10	235	122	30	35
3	28						44	12	274	115	28	31
4	27						41	9.3	307	103	28	36
5	28						40	8.0	417	94	28	41
6	28						36	6.8	626	82	30	41
7	28						35	6.2	751	74	27	41
8	28						34	6.8	771	71	26	41
9	28						30	7.4	813	64	27	34
10	26						28	7.4	804	58	25	28
11	24						21	6.8	759	57	25	27
12	22						18	6.8	767	49	26	23
13	20						18	6.8	755	44	25	18
14	20						18	8.0	704	37	22	15
15	18						20	7.4	665	34	18	13
16	18						17	6.2	586	30	18	12
17	18						16	5.6	521	29	15	12
18	18						16	4.6	478	28	17	12
19	24						16	4.2	463	28	21	12
20	41						16	23	431	28	14	12
21	46						12	48	392	27	14	12
22	48						8.6	90	317	24	13	12
23	48						8.0	149	270	22	13	12
24	49						7.4	207	216	20	13	12
25	51						6.8	198	182	17	18	
26	51						8.6	176	164	15	17	10
27	51						6.8	201	146	14	15	11
28	39						6.2	210	126	14	24	10
29	30						6.2	237	110	14	26	10
30	28						6.8	196	98	14	26	9.3
31	25	-----			-----		196		-----	14	25	-----
TOTAL	980						631.4	2,069.8	13,357	1,459	672	623.3
MEAN	31.6						21.0	66.8	445	47.1	21.7	20.8
MAX	51						45	237	813	122	30	41
MIN	18						6.2	4.2	98	14	13	9.3
AC-FT	1,940						1,250	4,110	26,490	2,890	1,330	1,240

PLATTE RIVER BASIN

06661000 LITTLE LARAMIE RIVER NEAR FILMORE, WYO.

LOCATION.--Lat 41°17'22", long 106°02'29", in NW¼NW¼NE¼ sec.9, T.15 N., R.77 W., Albany County, on left bank 25 ft downstream from bridge at May Ranch, 1.5 miles west of Filmore, and 3.5 miles downstream from North Fork.

DRAINAGE AREA.--156 sq mi.

PERIOD OF RECORD.--July 1902 to September 1903 (published as "near Hatton"), May 1911 to November 1926, October 1932 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (from topographic map). Prior to Sept. 16, 1938, nonrecording gage at site 5 ft downstream (July 5, 1902, to Aug. 15, 1903, at different datum, May 14, 1911, to Apr. 17, 1914, at datum 0.21 ft lower) at present datum. Sept. 16, 1938, to Nov. 5, 1969, water-stage recorder at site 5 ft downstream at present datum.

AVERAGE DISCHARGE.--55 years (1902-3, 1911-26, 1932-71), 103 cfs (74,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,640 cfs June 5 (gage height, 4.14 ft); minimum daily during period of operation, 19 cfs Sept. 17.

Period of record: Maximum discharge, 3,450 cfs June 10, 1965 (gage height, 5.33 ft); minimum daily determined, 1.0 cfs Sept. 17-20, 1913.

REMARKS.--Records good. Ten small reservoirs above station (combined capacity, about 160 acre-ft) for irrigation, stock water, recreation, and domestic use. Diversions above station for irrigation of about 11,020 acres, of which about 20 acres lies below station.

REVISIONS (WATER YEARS).--WSP 1310: 1903, 1914, 1922-26. WSP 1440: 1902. WSP 1730: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41						38	43	620	277	61	59
2	42						38	42	700	247	60	54
3	44						40	43	950	244	65	45
4	46						38	46	990	232	60	40
5	46						41	59	1,510	205	59	38
6	45						47	66	1,280	187	50	44
7	44						43	74	1,140	184	45	42
8	43						42	82	1,040	170	45	37
9	41						41	77	998	160	48	34
10	40						41	85	1,030	155	42	34
11	38						45	107	950	150	38	37
12	36						54	113	990	148	36	34
13	36						46	99	831	130	35	29
14	35						43	85	792	125	33	29
15	34						42	80	720	119	35	26
16	35						62	107	750	117	35	22
17	39						72	135	730	113	40	19
18	40						53	142	670	111	37	20
19	36						45	175	700	101	38	22
20	37						40	214	605	105	38	24
21	38						40	274	525	97	36	24
22	39						41	307	480	87	38	24
23	38						39	286	455	80	36	22
24	37						39	316	445	79	53	21
25	38						42	325	388	75	46	23
26	38						46	356	342	77	40	22
27	37						45	384	313	80	39	22
28	39						46	430	301	71	38	22
29	37						45	440	298	64	36	28
30	36						45	460	301	60	36	28
31	36	-----			-----		-----	560	-----	59	33	-----
TOTAL	1,211						1,339	6,012	21,844	4,109	1,331	928
MEAN	39.1						44.6	194	728	133	42.9	30.9
MAX	46						72	560	1,510	277	65	59
MIN	34						38	42	298	59	33	19
AC-FT	2,400						2,660	11,920	43,330	8,150	2,640	1,940

06661500 LITTLE LARAMIE RIVER AT TWO RIVERS, WYO.

LOCATION.--Lat 41°28'07", long 105°43'56", in SE¼SE¼SE¼ sec.6, T.17 N., R.74 W., Albany County, on right bank at old Two Rivers Post Office, 0.5 mile upstream from mouth, and 14 miles northwest of Laramie.

DRAINAGE AREA.--376 sq mi, of which 58 sq mi is probably noncontributing.

PERIOD OF RECORD.--March to September 1903 (gage heights and discharge measurements only), October 1910 to October 1927, May to November 1933, May 1934 to October 1971, April to September 1972 (discontinued).
Published as "at Haley's Ranch, near Laramie" 1903.

GAGE.--Water-stage recorder. Datum of gage is 7,060.62 ft above mean sea level. See WSP 1918 for history of changes prior to Apr. 21, 1915.

AVERAGE DISCHARGE.--54 years (1910-27, 1934-71), 44.0 cfs (31,880 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,330 cfs June 6 (gage height, 6.83 ft); no flow Sept. 18-21.
Period of record: Maximum discharge, 2,440 cfs June 11, 1965 (gage height, 7.50 ft); no flow at times in most years.

REMARKS.--Records good. Fifteen small reservoirs above station (combined capacity, about 1,300 acre-ft) for irrigation, stock water, recreation, and domestic use. Diversions for irrigation of about 43,000 acres above station. Results of discharge measurements, in cubic feet per second, made during winter when station was not in operation are given below:

Nov. 29 . . 20.1	Jan. 17 . . 4.75
Dec. 7 . . 8.82	Feb. 10 . . 13.7

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1310: 1912, 1914(M), 1917, 1921, 1924-26. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19						25	39	120	78	34	30
2	18						25	29	152	101	36	37
3	20						25	24	224	108	39	34
4	21						25	24	327	103	40	28
5	22						24	28	684	102	36	18
6	21						25	33	1,220	93	31	14
7	15						22	31	1,240	95	28	13
8	13						25	35	960	92	24	14
9	12						25	37	745	84	33	11
10	12						25	34	656	82	31	8.9
11	12						22	40	616	76	25	9.4
12	13						23	42	576	73	20	7.0
13	9.9						25	37	524	69	17	5.4
14	8.0						28	33	469	68	13	4.1
15	5.8						30	31	395	63	11	2.7
16	7.5						31	23	350	60	10	1.4
17	16						39	15	327	57	8.9	.50
18	20						47	15	327	56	7.5	0
19	28						42	14	331	56	8.9	0
20	28						39	13	280	56	11	0
21	28						35	18	239	54	11	0
22	30						31	36	197	49	13	.30
23	33						27	47	177	42	13	1.8
24	33						24	47	147	41	21	2.7
25	33						24	49	126	40	26	2.7
26	31						19	51	109	41	26	2.7
27	33						8.9	56	91	40	24	2.7
28	32						20	68	76	38	18	2.9
29	14						42	82	66	34	17	4.5
30	25				-----		56	92	61	32	17	6.6
31	30	-----			-----		-----	101	-----	31	15	-----
TOTAL	642.2						858.9	1,224	11,812	2,014	665.3	265.30
MEAN	20.7						28.6	39.5	394	65.0	21.5	8.84
MAX	33						56	101	1,240	108	40	37
MIN	5.8						8.9	13	61	31	7.5	0
AC-FT	1,270						1,700	2,430	23,430	3,990	1,320	526

PLATTE RIVER BASIN

06662000 LARAMIE RIVER NEAR LOOKOUT, WYO.

LOCATION.--Lat 41°45'44", long 105°41'16", in NE¼NW¼SE¼ sec.27, T.21 N., R.74 W., Albany County, on right bank 155 ft downstream from bridge on county road, 1 mile upstream from Wheatland Reservoir No. 2, and 9 miles northeast of Lookout.

DRAINAGE AREA.--2,174 sq mi, of which 603 sq mi is probably noncontributing. Drainage area at mouth, 4,565 sq mi.

PERIOD OF RECORD.--May 1912 to December 1917, January 1921 to December 1927, April 1932 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 6,962.68 ft above mean sea level. Prior to Apr. 22, 1915, non-recording gage and Apr. 22, 1915, to Aug. 31, 1917, water-stage recorder, at bridge 155 ft upstream at same datum. Oct. 14, 1931, to Sept. 17, 1938, at site 125 ft upstream at same datum.

AVERAGE DISCHARGE.--51 years, 131 cfs (94,910 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,760 cfs June 9 (gage height, about 5.00 ft); minimum daily, 16 cfs May 21.

Period of record: Maximum discharge, 3,340 cfs June 17, 1957 (gage height, 6.41 ft); no flow at times in 1934-35, 1939-40, 1954-55.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 108,000 acres above station, and return flow from irrigated areas.

REVISIONS (WATER YEARS).--WSP 1310: 1913-17. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	65	60	40	40	80	75	28	296	182	60	53
2	80	65	60	40	35	75	91	31	323	223	60	59
3	77	65	60	35	45	80	87	28	380	249	60	73
4	73	75	60	30	50	70	75	24	505	254	55	75
5	73	70	70	30	55	85	70	22	622	251	55	68
6	73	75	60	35	55	100	66	22	860	228	55	68
7	73	80	55	35	55	100	63	22	1,300	220	53	68
8	70	85	50	35	55	100	61	24	1,620	210	50	68
9	64	85	55	35	50	130	61	26	1,730	205	43	71
10	64	90	50	30	50	160	59	28	1,660	190	48	71
11	61	90	45	35	50	160	58	34	1,620	180	46	66
12	59	90	45	35	55	160	54	34	1,500	172	40	63
13	53	90	45	25	55	170	50	34	1,430	161	34	59
14	45	90	45	20	55	202	50	31	1,380	152	31	58
15	40	80	45	20	55	177	50	31	1,290	143	30	56
16	38	60	45	25	55	154	48	30	1,220	136	26	51
17	37	55	50	25	55	143	43	30	1,150	128	26	50
18	38	55	50	30	65	128	46	28	988	122	38	45
19	48	55	55	45	65	117	50	25	916	117	28	40
20	46	60	55	50	70	113	40	22	868	111	26	37
21	59	70	60	50	70	107	37	16	789	109	30	31
22	70	65	65	50	75	101	32	28	685	101	28	26
23	71	65	65	45	70	95	28	56	572	97	32	22
24	77	65	70	45	70	86	25	126	485	95	38	21
25	80	60	70	40	70	82	22	175	386	90	40	22
26	80	60	60	40	65	78	26	218	340	90	40	21
27	84	60	55	40	65	75	22	205	307	85	43	19
28	70	60	50	35	70	75	22	228	270	80	43	18
29	65	60	45	35	75	75	20	251	233	75	43	19
30	60	60	45	35	-----	75	24	285	197	70	46	18
31	65	-----	40	40	-----	75	-----	277	-----	65	46	-----
TOTAL	1,979	2,105	1,685	1,110	1,700	3,428	1,455	2,419	25,922	4,591	1,293	1,416
MEAN	63.8	70.2	54.4	35.8	58.6	111	48.5	78.0	864	148	41.7	47.2
MAX	86	90	70	50	75	202	91	285	1,730	254	60	75
MIN	37	55	40	20	35	70	20	16	197	65	26	18
AC-FT	3,930	4,180	3,340	2,200	3,370	6,800	2,890	4,800	51,420	9,110	2,560	2,810

CAL YR 1971 TOTAL 77,127 MEAN 211 MAX 1,720 MIN 18 AC-FT 153,000
WTR YR 1972 TOTAL 49,103 MEAN 134 MAX 1,730 MIN 16 AC-FT 97,400

PLATTE RIVER BASIN

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06664490 SYBILLE CREEK BELOW MULE CREEK, NEAR WHEATLAND, WYO.

LOCATION.--Lat 41°50'53", long 105°13'01", in NW¼NE¼SE¼ sec.27, T.22 N., R.70 W., Platte County, on left bank 0.4 mile downstream from Mule Creek, 2.3 miles upstream from Bluegrass Creek, and 19.5 miles southwest of Wheatland.

DRAINAGE AREA.--219 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,325 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 107 cfs June 4 (gage height, 4.28 ft); minimum daily, 1.0 cfs Sept. 23.

Period of record: Maximum discharge, 1,270 cfs July 16, 24, 1969 (gage height, 8.06 ft), from rating curve extended above 160 cfs on basis of slope-area measurement of peak flow; minimum daily, 1.0 cfs Sept. 23, 1972.

REMARKS.--Records poor. Seven small reservoirs above station (combined capacity, about 400 acre-ft) for irrigation. Diversions above station for irrigation of about 2,020 acres, of which about 80 acres lies below station.

REVISIONS (WATER YEARS).--WRD Wyo. 1970: 1969. WRD Wyo. 1971: 1970.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	22	19	11	15	20	14	13	18	5.6	12	6.2
2	22	22	16	11	14	16	13	12	25	5.6	9.4	6.2
3	21	22	17	10	14	21	14	12	35	6.2	20	5.6
4	21	23	16	10	15	19	12	11	54	6.2	8.0	5.6
5	21	25	17	11	16	18	11	11	28	5.6	8.0	5.6
6	20	23	18	12	15	19	10	10	24	8.0	6.8	6.2
7	20	23	16	13	17	19	13	11	13	12	5.6	6.2
8	20	28	13	11	17	18	13	11	7.4	13	5.6	6.2
9	21	27	17	12	17	17	14	20	8.0	12	5.6	5.6
10	21	26	15	13	13	18	14	50	11	10	5.6	5.6
11	21	25	13	14	16	19	12	35	12	9.4	5.6	6.2
12	21	25	13	15	17	23	12	20	10	8.0	5.6	5.6
13	21	26	13	15	17	23	13	18	9.4	8.0	5.6	5.0
14	23	25	13	13	17	23	14	16	8.7	7.4	5.0	5.0
15	23	23	13	11	17	23	14	15	8.7	7.4	5.6	3.8
16	23	26	13	15	17	21	15	15	15	7.4	5.6	2.6
17	25	25	14	16	17	21	12	15	15	7.4	5.6	2.0
18	23	21	14	17	20	21	13	15	12	7.4	5.6	2.0
19	23	17	15	18	22	22	13	15	12	7.4	5.6	2.0
20	23	27	16	18	25	22	13	15	9.4	8.0	5.0	2.0
21	24	26	17	18	26	20	12	15	9.4	8.0	6.2	1.5
22	25	27	18	17	27	18	12	45	8.7	7.4	5.6	1.5
23	25	26	20	17	22	18	12	30	8.7	6.8	6.2	1.0
24	25	26	21	16	19	19	11	25	8.0	7.4	6.2	1.5
25	25	24	20	15	20	18	13	20	7.4	7.4	5.6	2.0
26	24	21	20	13	20	17	16	15	6.8	7.4	5.6	2.6
27	24	23	18	13	17	16	17	12	6.2	7.4	8.7	3.2
28	25	21	15	13	18	18	14	20	5.6	8.0	5.6	2.6
29	21	21	14	14	19	18	14	16	5.6	7.4	5.6	2.6
30	21	21	13	14	-----	16	13	14	5.6	6.2	5.6	2.6
31	17	-----	12	15	-----	14	-----	14	-----	13	5.0	-----
TOTAL	691	717	489	431	526	595	393	566	407.6	248.4	207.3	116.3
MEAN	22.3	23.9	15.8	13.9	18.1	19.2	13.1	18.3	13.6	8.01	6.69	3.88
MAX	25	28	21	18	27	23	17	50	54	13	20	6.2
MIN	17	17	12	10	13	14	10	10	5.6	5.6	5.0	1.0
AC-FT	1,370	1,420	970	855	1,040	1,180	780	1,120	808	493	411	231
CAL YR 1971	TOTAL 22,154.0	MEAN 60.7	MAX 318	MIN 11	AC-FT 43,940							
WTR YR 1972	TOTAL 5,387.6	MEAN 14.7	MAX 54	MIN 1.0	AC-FT 10,690							

NOTE.--No gage-height record Dec. 3 to Feb. 25, Apr. 9 to June 3.

PLATTE RIVER BASIN

06664900 BLUEGRASS CREEK NEAR WHEATLAND, WYO.

LOCATION.--Lat 41°52'14", long 105°12'51", in NE¼NE¼NE¼ sec.22, T.22 N., R.70 W., Platte County, on right bank 150 ft upstream from State Highway 34, 0.2 mile upstream from Sybille Creek, and 18.2 miles southwest of Wheatland.

DRAINAGE AREA.--139 sq mi.

PERIOD OF RECORD.--August 1958 to September 1963, October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 700 cfs July 31 (gage height, 4.09 ft); minimum daily, 7.0 cfs Jan. 13, 14.

Period of record: Maximum discharge, 1,420 cfs Apr. 10, 1970 (gage height, 4.90 ft); minimum daily, 0.35 cfs Jan. 8, 1970.

Flood of June 8, 1968, reached a discharge of about 3,400 cfs, from comparison of flow at stations on Sybille Creek above and below Bluegrass Creek.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Most of flow during irrigation season is water released from Wheatland Reservoir No. 2 (capacity, 98,930 acre-ft) on the Laramie River and diverted through a tunnel 15 miles upstream. Diversions for irrigation of about 210 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	13	18	8.5	9.5	25	7.7	9.5	314	500	536	155
2	20	15	15	8.5	8.0	18	8.1	9.5	338	505	505	133
3	20	17	21	8.0	9.5	23	8.6	9.4	425	505	470	129
4	20	24	15	7.5	11	22	8.1	9.0	470	465	395	124
5	21	28	14	8.0	11	22	7.7	9.0	495	460	330	124
6	20	15	14	8.5	10	23	7.7	9.9	480	450	318	124
7	20	25	14	10	10	23	8.1	9.9	470	440	314	122
8	20	26	11	9.5	10	14	8.6	10	525	435	314	122
9	20	24	12	9.5	9.5	14	8.6	11	536	445	318	78
10	19	27	11	9.0	9.0	11	8.6	15	542	445	310	30
11	19	25	11	9.5	9.5	13	8.6	16	547	450	310	25
12	19	26	11	10	10	13	9.0	15	553	480	306	20
13	18	26	10	7.0	10	13	10	23	547	485	302	17
14	18	18	10	7.0	10	13	13	25	542	510	306	15
15	19	24	9.5	8.5	10	12	13	23	531	515	390	12
16	20	30	9.0	11	10	9.9	12	22	505	520	400	10
17	21	24	10	12	10	9.9	13	20	515	525	420	9.4
18	23	13	10	13	11	10	11	20	5	520	460	17
19	24	9.9	10	13	11	11	10	21	459	520	500	101
20	22	23	11	13	12	11	12	25	450	525	505	111
21	23	23	11	12	13	9.9	11	50	465	520	510	133
22	21	25	12	12	13	9.4	13	126	460	510	515	145
23	21	23	12	12	15	9.9	13	115	455	505	510	148
24	21	20	12	12	18	9.9	12	113	460	510	420	145
25	21	22	13	11	15	9.0	12	122	495	500	302	155
26	20	17	14	9.0	10	9.4	13	131	435	500	265	133
27	22	21	13	9.0	19	8.1	12	136	440	500	258	111
28	19	20	11	9.5	17	9.4	10	190	440	505	225	107
29	16	17	10	9.5	23	9.0	10	206	480	536	185	103
30	14	20	9.5	10	-----	8.6	10	209	500	536	168	58
31	12	-----	9.0	10	-----	8.6	-----	298	-----	558	166	-----
TOTAL	613	640.9	373.0	307.0	344.0	412.0	309.4	2,008.2	14,385	15,380	11,233	2,716.4
MEAN	19.8	21.4	12.0	9.90	11.9	13.3	10.3	64.8	480	496	362	90.5
MAX	24	30	21	13	23	25	13	298	553	558	536	155
MIN	12	9.9	9.0	7.0	8.0	8.1	7.7	9.0	314	435	166	9.4
AC-FT	1,220	1,270	740	609	682	817	614	3,980	28,540	30,510	22,280	5,390

CAL YR 1971 TOTAL 43,424.7 MEAN 119 MAX 590 MIN 3.0 AC-FT 86,130
WTR YR 1972 TOTAL 48,725.9 MEAN 133 MAX 558 MIN 7.0 AC-FT 96,650

NOTE.--No gage-height record Dec. 5 to Feb. 24.

LOCATION.--Lat 42°12'05", long 104°32'06", in NW¼SW¼NW¼ sec.27, T.26 N., R.64 W., Goshen County, on left bank 0.7 mile upstream from mouth, 0.8 mile southwest of Fort Laramie, 1.0 mile east of Old Fort Laramie, 1.4 miles downstream from Deer Creek, and 5.5 miles downstream from point of diversion to Gering-Port Laramie Canal.

PERIOD OF RECORD.--April 1915 to current year (no winter records prior to 1927). Monthly discharge only for some periods, published in WSP 1310. Records for water years 1926-39, previously published including diversions to Gering-Fort Laramie Canal, were adjusted to exclude flow in the canal in WSP 1310. Prior to October 1931, published as "at Fort Laramie."

AVERAGE DISCHARGE.--16 years (1956-72), 128 cfs (92,740 acre-ft per year).

Det. 8 (backwater from ice); minimum daily discharge, 30 cfs Aug. 19-21.
Period of record: Maximum discharge, 5,610 cfs May 6, 1971 (gage height, 8.04 ft); no flow Jan. 31 to Mar. 20, Oct. 24 to Dec. 17, 1926, Mar. 1-26, 1927, Apr. 14, 1938 (all flow diverted by Gering-Fort Laramie Canal).

REMARKS.--Records good except those for winter period, which are poor. No diversion to Gering-Fort Laramie Canal since 1956. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation of about 176,000 acres above station, and return flow from irrigated areas. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1918: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	168	204	155	150	176	160	171	132	73	54	56
2	152	178	202	150	140	185	157	181	111	70	60	59
3	157	178	201	140	140	185	154	173	94	82	85	71
4	157	174	201	130	150	180	157	161	84	112	81	78
5	155	173	195	140	150	185	163	158	81	122	86	77
6	154	173	197	150	140	178	154	155	91	108	81	86
7	152	178	190	160	140	165	148	154	113	99	71	96
8	149	190	160	165	140	173	144	169	109	89	66	83
9	152	202	170	160	140	181	143	233	102	83	73	92
10	152	208	190	155	140	181	143	205	102	75	68	78
11	150	204	180	150	130	181	146	305	100	70	58	79
12	149	209	180	150	150	181	134	305	108	67	50	82
13	143	206	180	140	160	183	118	300	107	74	48	77
14	143	208	170	130	155	185	126	285	100	67	50	72
15	143	208	170	120	155	183	143	282	97	65	47	71
16	142	206	175	130	160	186	161	268	100	63	45	70
17	144	212	180	140	169	183	155	247	96	62	45	66
18	160	214	180	150	176	178	150	237	102	55	42	60
19	158	208	171	155	163	176	149	223	146	52	36	55
20	152	180	170	160	174	183	150	219	192	51	36	53
21	150	192	165	160	173	190	150	255	243	52	36	51
22	152	210	164	160	174	186	143	265	270	52	38	53
23	150	212	174	160	171	174	136	253	268	53	39	58
24	152	212	181	150	168	168	127	241	272	51	42	52
25	157	212	173	140	166	163	122	225	270	50	52	68
26	157	210	165	130	173	160	126	199	221	53	58	68
27	158	210	160	130	174	154	155	171	155	52	55	69
28	161	206	157	135	180	150	178	146	126	56	56	73
29	166	206	160	140	178	154	171	143	97	52	55	72
30	173	208	165	150	-----	157	165	148	81	50	53	71
31	173	-----	160	150	-----	161	-----	142	-----	52	53	-----
TOTAL	4,767	5,954	5,490	4,535	4,579	5,425	4,428	6,719	4,170	2,111	1,719	2,086
MEAN	154	198	177	146	158	175	148	217	139	68.1	55.5	69.5
MAX	173	214	204	165	180	190	178	305	272	122	86	86
MIN	142	168	157	120	130	150	118	142	81	50	36	51
AC-FT	9,460	11,810	10,890	9,000	9,080	10,760	8,780	13,330	8,270	4,190	3,410	4,140

CAL YR 1971	TOTAL 190,070	MEAN 521	MAX 4,150	MIN 54	AC-FT 377,000
WTR YR 1972	TOTAL 51,983	MEAN 142	MAX 305	MIN 36	AC-FT 103,100

PLATTE RIVER BASIN

06670900 NORTH PLATTE RIVER NEAR LINGLE, WYO.

LOCATION.--Lat 42°06'13", long 104°21'02", in SW¼SE¼ (two channels) sec.30, T.25 N., R.62 W., Goshen County, on left bank of main channel at downstream side of bridge, and on right bank of north channel at upstream side of bridge, on State Highway 0805, 1.8 miles upstream from mouth of Rawhide Creek, and 2.1 miles south of Lingle.

DRAINAGE AREA.--25,095 sq mi, of which 5,809 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

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

GAGE.--Two water-stage recorders. Datum of gages is 4,131.41 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,020 cfs July 2; minimum daily, 180 cfs Jan. 15.
Period of record: Maximum discharge, 9,480 cfs May 16, 1971; minimum daily, 106 cfs Jan. 6, 1970.

REMARKS.--Records good. River flows in two channels for which separate records are computed; figures given herein represent combined discharge. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Diversion from main channel to Rock Ranch Canal 0.6 mile upstream. Diversion from north channel to Torrington ditch 1.4 miles upstream. Results of discharge measurements for the water year 1972 for Torrington ditch, in cubic feet per second, are given below:

June 6 .. 53.9
July 7 .. 47.5
Sept.12 .. 1.74

Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	516	307	305	215	208	1,980	1,940	379	1,160	2,950	1,150	775
2	481	314	302	223	202	2,090	1,760	409	1,000	2,770	1,080	730
3	457	314	299	215	200	2,160	1,750	379	1,000	2,410	1,080	778
4	449	310	293	191	196	2,200	1,430	322	1,000	2,110	993	791
5	445	308	285	188	198	2,240	1,260	326	991	1,850	956	709
6	437	308	275	196	196	2,270	842	444	976	1,650	924	735
7	429	305	264	210	202	2,270	521	450	1,000	1,580	948	638
8	425	308	252	216	204	2,270	416	437	1,150	1,560	1,040	588
9	449	315	222	208	211	2,270	375	478	1,390	1,440	1,060	507
10	538	311	239	224	212	2,280	375	536	1,460	1,440	1,080	438
11	661	311	239	215	212	2,280	400	578	1,450	1,470	1,190	365
12	635	311	236	223	206	2,290	382	563	1,500	1,460	1,250	372
13	620	311	241	212	215	2,290	378	548	1,730	1,520	1,250	358
14	605	308	239	195	219	2,290	414	531	1,920	1,540	1,250	350
15	493	311	236	180	223	2,310	410	512	2,020	1,570	1,320	401
16	440	308	225	185	227	2,300	418	511	2,030	1,510	1,360	421
17	400	308	219	195	229	2,300	414	499	2,000	1,510	1,400	526
18	373	311	243	208	233	2,310	414	485	2,020	1,490	1,320	581
19	356	325	243	225	239	2,310	402	476	2,020	1,410	1,290	596
20	348	299	249	236	243	2,290	389	468	2,110	1,360	1,290	612
21	338	293	251	251	246	2,270	389	460	2,200	1,320	1,250	607
22	334	310	253	256	251	2,280	429	649	2,330	1,260	1,200	437
23	331	317	259	267	349	2,270	440	1,200	2,380	1,270	1,180	392
24	328	317	263	256	607	2,230	477	1,960	2,470	1,290	1,130	367
25	324	315	263	253	988	2,260	418	2,520	2,470	1,330	1,010	375
26	320	315	259	203	1,310	2,270	416	2,300	2,390	1,360	960	389
27	321	312	259	188	1,410	2,280	379	2,270	2,410	1,300	909	389
28	329	309	246	184	1,500	2,220	425	2,240	2,420	1,250	895	404
29	332	309	246	188	1,600	2,210	441	2,190	2,460	1,220	863	396
30	318	308	236	194	-----	2,210	397	1,740	2,660	1,170	825	366
31	317	-----	211	206	-----	2,220	-----	1,320	-----	1,150	812	-----
TOTAL	13,149	9,308	7,852	6,606	12,536	69,720	18,901	28,180	54,117	48,520	34,265	15,393
MEAN	424	310	253	213	432	2,249	630	909	1,804	1,565	1,105	513
MAX	661	325	305	267	1,600	2,310	1,940	2,520	2,660	2,950	1,400	791
MIN	317	293	211	180	156	1,980	375	322	976	1,150	812	350
AC-FT	26,080	18,460	15,570	13,100	24,870	138,300	37,490	55,900	107,300	96,240	67,960	30,530

CAL YR 1971 TOTAL 688,934 MEAN 1,887 MAX 9,230 MIN 139 AC-FT 1,367,000
WTR YR 1972 TOTAL 318,547 MEAN 870 MAX 2,950 MIN 180 AC-FT 631,800

PLATTE RIVER BASIN

151

06671000 RAWHIDE CREEK NEAR LINGLE, WYO.

LOCATION.--Lat 42°07'32", long 104°19'36", in SE¼NE¼ sec.20, T.25 N., R.62 W., Goshen County, on right bank 200 ft upstream from bridge on U.S. Highway 26, 1 mile east of Lingle, and 1 mile upstream from mouth.

DRAINAGE AREA.--522 sq mi.

PERIOD OF RECORD.--May 1928 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 4,160 ft (from topographic map). See WSP 1918 for history of changes prior to May 16, 1955.

AVERAGE DISCHARGE.--43 years (1928-71), 21.5 cfs (15,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 209 cfs July 26 (gage height, 5.42 ft); minimum daily during period of operation, 0.35 cfs Apr. 24.
Period of record: Maximum discharge, 3,970 cfs Sept. 7, 1946 (gage height, 11.76 ft); no flow July 5-7, 1961, Apr. 12, 29, 1966, Mar. 20-28, 1967, Apr. 13, 1971.

REMARKS.--Records poor. Low flow represents return water from lands irrigated by Interstate Canal in Rawhide Creek basin. Six small reservoirs above station (combined capacity, about 460 acre-ft) for irrigation. Diversions for irrigation of about 1,600 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1440: 1932, 1936(M). WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40						13	5.5	3.0	3.8	16	29
2	38						12	6.1	1.2	9.3	12	26
3	37						12	5.7	2.1	11	12	24
4	35						12	5.5	6.6	9.3	15	31
5	35						12	5.3	32	6.4	19	30
6	34						13	4.9	23	2.7	17	38
7	34						13	4.9	17	3.8	12	36
8	36						12	4.9	19	2.9	14	35
9	39						12	5.9	13	3.8	5.9	34
10	36						11	5.9	12	20	5.5	33
11	30						10	7.0	9.9	21	5.3	34
12	28						12	6.5	12	8.0	5.7	32
13	25						12	6.8	50	3.2	6.1	32
14	25						15	6.5	38	3.3	6.5	30
15	24						15	6.3	30	5.3	6.1	34
16	25						15	6.5	28	6.8	7.8	25
17	25						15	6.8	25	7.8	10	27
18	36						15	6.8	24	6.5	11	24
19	27						14	7.5	28	6.8	11	26
20	25						16	14	38	11	13	25
21	24						16	23	32	11	13	20
22	25						12	26	30	6.8	12	15
23	24						13	27	22	9.0	14	19
24	23						3.35	23	14	14	27	25
25	23						3.4	20	12	24	25	28
26	22						5.9	21	13	64	24	28
27	23						9.9	18	9.9	34	24	28
28	23						12	13	4.7	20	24	30
29	23						6.8	9.9	2.7	17	25	32
30	24						6.5	6.8	2.6	14	25	31
31	23	-----			-----		-----	4.2	-----	9.6	25	-----
TOTAL	890						346.85	321.2	554.7	376.1	448.9	860
MEAN	28.7						11.6	10.4	18.5	12.1	14.5	28.7
MAX	40						16	27	50	64	27	38
MIN	22						3.35	4.2	1.2	2.7	5.3	15
AC-FT	1,770						688	637	1,100	746	890	1,710

PLATTE RIVER BASIN

06672500 CHERRY CREEK DRAIN NEAR TORRINGTON, WYO.

LOCATION.--Lat 42°02'22", long 104°10'07", in SW¼NW¼ sec.23, T.24 N., R.61 W., Goshen County, on left bank 50 ft downstream from bridge on county road, 0.6 mile upstream from mouth, and 2 miles southeast of Torrington.

DRAINAGE AREA.--356 sq mi.

PERIOD OF RECORD.--May to September 1931, May to September 1932, May 1935 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 4,080 ft (from topographic map). Prior to June 12, 1935, nonrecording gage at site 1 mile upstream at different datum. June 12, 1935, to Nov. 27, 1950, at site 100 ft downstream (at datum 2.00 ft higher June 12, 1945, to Sept. 30, 1945, and at present datum thereafter).

AVERAGE DISCHARGE.--36 years (1935-71), 21.6 cfs (15,650 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 136 cfs Aug. 19 (gage height, 3.26 ft); minimum daily during period of operation, 6.9 cfs May 20, 21.
Period of record: Maximum discharge, 2,420 cfs June 27, 1955 (gage height, 10.31 ft, from floodmark); minimum daily, 0.40 cfs Jan. 28, 29, 1949.

REMARKS.--Records poor. Flow is mainly return water from irrigation. Results of discharge measurements, in cubic feet per second, made during winter when station was not in operation are given below:

Nov. 8 . . 11.9
Jan. 19 . . 12.8
Mar. 22 . . 8.10

Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20							11	36	38	61	75
2	20							11	35	39	56	79
3	20							11	40	37	60	75
4	19							10	43	39	61	79
5	18							9.8	55	42	57	74
6	18							9.5	54	38	53	75
7	19							9.2	54	40	48	67
8	17							9.0	44	38	45	57
9	17							11	49	38	51	56
10	16							9.8	53	42	48	53
11	16							10	52	43	53	53
12	15							8.7	53	40	52	53
13	16							8.7	49	42	52	51
14	16							8.2	38	42	53	48
15	16							7.9	32	46	53	44
16	16							7.7	35	43	56	43
17	16							7.7	31	42	58	44
18	16							7.4	35	42	58	48
19	15							7.2	35	42	68	49
20	14							6.9	33	46	67	44
21	14							6.9	33	51	60	46
22	13							7.9	29	56	58	46
23	13							8.2	32	54	60	42
24	13							16	31	54	68	42
25	13							26	30	54	69	44
26	13							28	33	56	76	47
27	13							28	41	58	76	42
28	13							32	34	71	74	33
29	13							34	34	64	74	27
30	13							40	36	58	72	26
31	12	-----			-----		-----	36	-----	59	71	-----
TOTAL	432							444.7	1,189	1,454	1,868	1,562
MEAN	15.5							14.3	39.6	46.9	60.3	52.1
MAX	20							40	55	71	76	79
MIN	12							6.9	29	37	45	26
AC-FT	956							882	2,360	2,880	3,710	3,100

PLATTE RIVER BASIN

153

06673500 KATZER DRAIN NEAR HENRY, NEBR.

LOCATION.--Lat 41°58'58", long 104°04'13", in NW¼SW¼NW¼ sec.10, T.23 N., R.60 W., Goshen County, Wyoming, on right bank 10 ft downstream from bridge on county road, 0.6 mile upstream from mouth, and 1.6 miles south-west of Henry.

DRAINAGE AREA.--45.9 sq mi, of which 8.2 sq mi is probably noncontributing.

PERIOD OF RECORD.--May 1928 to current year (no winter records prior to 1932 and since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 4,050 ft (from topographic map). See WSP 1918 for history of changes prior to Dec. 1, 1950. Dec. 1, 1950, to Sept. 30, 1969, at site 1.2 miles upstream at different datum.

AVERAGE DISCHARGE.--40 years (1931-71), 19.6 cfs (14,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 337 cfs Aug. 19 (gage height, 5.22 ft); minimum daily during period of operation, 3.9 cfs Apr. 25.
Period of record: Maximum discharge, 1,230 cfs May 19, 1938 (gage height, 9.47 ft, site and datum then in use), from rating curve extended above 330 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.50 cfs Jan. 14, 1937.

REMARKS.--Records poor. Flow is mainly return water from land irrigated by Fort Laramie Canal.

REVISIONS.--WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18						9.1	10	32	54	77	91
2	16						6.9	9.3	30	88	72	91
3	15						6.7	8.9	30	76	85	83
4	14						6.3	8.5	34	78	93	78
5	13						5.4	8.3	32	74	91	79
6	13						5.0	7.9	33	71	89	82
7	12						4.8	7.7	36	76	88	73
8	12						4.6	7.7	34	67	74	71
9	12						4.4	31	34	58	74	72
10	12						4.4	13	46	62	72	70
11	11						4.4	13	50	52	79	67
12	11						4.2	11	51	46	63	65
13	11						4.2	11	48	48	58	60
14	11						6.1	10	38	48	58	58
15	11						6.5	9.1	39	54	58	59
16	11						7.1	8.9	46	52	64	55
17	11						5.2	9.5	45	66	56	50
18	14						4.8	21	51	60	52	47
19	11						4.9	22	48	63	102	44
20	10						4.9	33	48	77	99	40
21	10						4.6	36	47	76	76	44
22	10						4.3	32	48	75	70	46
23	10						4.0	34	44	74	75	50
24	9.8						4.0	34	44	82	96	55
25	9.5						3.9	34	40	84	88	56
26	9.5						7.5	30	49	86	84	56
27	9.3						50	30	51	84	91	48
28	9.8						35	30	53	91	96	31
29	9.8						16	32	53	80	87	36
30	10						13	36	54	77	74	24
31	10	-----			-----		-----	30	-----	78	74	-----
TOTAL	356.7						252.2	618.8	1,288	2,157	2,415	1,781
MEAN	11.5						8.41	20.0	42.9	69.6	77.9	59.4
MAX	18						50	36	54	91	102	91
MIN	9.3						3.9	7.7	30	46	52	24
AC-FT	708						500	1,230	2,550	4,280	4,790	3,530

PLATTE RIVER BASIN

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'25", long 104°02'57", in SW¼NE¼SE¼ sec.4, T.23 N., R.58 W., Scottsbluff County, Nebraska, on right bank 700 ft downstream from Wyoming-Nebraska State line, 650 ft upstream from bridge on Nebr. State Highway 86, and 0.5 mile south of Henry, Nebraska. Prior to Feb. 23, 1972, at site 0.5 mile upstream.

DRAINAGE AREA.--26,177 sq mi, of which 5,888 sq mi (including 3,959 sq mi in Great Divide Basin in southern Wyoming) is probably noncontributing.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,020 ft (from topographic map). Prior to Nov. 6, 1929, non-recording gage and Nov. 6, 1929, to Feb. 22, 1972, water-stage recorder at sites 0.5 mile upstream at different datums.

EXTREMES.--Current year: Maximum discharge, 2,620 cfs July 2 (gage height, 3.84 ft); minimum daily, 280 cfs Jan. 29.

Period of record: Maximum discharge observed, 17,900 cfs June 2, 1929 (gage height, 7.04 ft, site and datum then in use); minimum daily, 13 cfs May 12, 1961.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Gering-Mitchell Canal diverts from right bank 0.8 mile upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	754	434	393	339	325	1,680	2,220	450	1,300	2,400	1,160	849
2	733	427	392	330	322	1,930	1,970	446	1,160	2,560	1,100	842
3	684	420	392	329	320	2,030	1,890	455	1,110	2,310	1,080	786
4	663	417	390	320	329	2,120	1,770	450	1,120	2,050	1,050	779
5	673	414	380	335	325	2,160	1,460	432	1,150	1,860	988	758
6	621	404	372	340	320	2,170	1,300	432	1,040	1,620	919	737
7	593	404	369	331	320	2,120	912	470	1,050	1,460	912	737
8	579	410	362	330	320	2,130	737	490	1,090	1,400	948	659
9	583	416	350	321	320	2,150	623	550	1,220	1,270	1,020	617
10	603	422	305	320	317	2,170	583	588	1,410	1,250	1,000	572
11	728	424	318	313	315	2,170	583	635	1,480	1,280	1,020	530
12	777	431	322	310	315	2,160	588	653	1,530	1,250	1,050	540
13	753	429	335	310	315	2,190	583	647	1,640	1,220	1,060	470
14	751	424	330	306	315	2,220	588	635	1,870	1,220	1,080	455
15	664	424	322	305	312	2,250	588	623	1,940	1,260	1,160	460
16	592	426	318	303	310	2,290	588	495	1,990	1,260	1,170	480
17	554	418	305	300	310	2,280	583	432	1,970	1,250	1,140	500
18	555	412	300	300	310	2,300	561	428	1,970	1,240	1,130	572
19	527	414	328	300	310	2,310	555	428	1,920	1,220	1,180	600
20	501	404	328	300	310	2,380	525	432	1,850	1,250	1,280	600
21	436	398	332	300	310	2,380	495	405	1,940	1,240	1,240	594
22	473	398	338	301	310	2,380	475	450	2,040	1,220	1,230	561
23	461	409	340	322	323	2,360	460	641	2,210	1,180	1,240	490
24	453	409	350	336	472	2,370	446	1,220	2,320	1,220	1,350	465
25	448	411	350	329	745	2,330	423	1,830	2,390	1,280	1,240	460
26	442	408	350	325	1,120	2,360	432	1,960	2,370	1,300	1,160	470
27	443	407	350	325	1,250	2,330	530	1,850	2,260	1,350	1,090	470
28	440	399	355	310	1,390	2,280	566	1,870	2,190	1,330	1,040	520
29	441	396	350	280	1,450	2,270	500	1,870	2,180	1,280	1,010	545
30	440	400	350	300	-----	2,310	470	1,800	2,250	1,230	940	540
31	436	-----	341	315	-----	2,270	-----	1,510	-----	1,160	849	-----
TOTAL	17,806	12,409	10,716	9,785	13,709	68,850	24,004	25,617	51,950	44,420	33,836	17,658
MEAN	574	414	346	315	472	2,221	800	826	1,732	1,433	1,091	589
MAX	777	434	393	340	1,450	2,380	2,220	1,960	2,390	2,560	1,350	849
MIN	436	396	300	280	310	1,680	423	405	1,040	1,160	849	455
AC-FT	35,320	24,610	21,760	19,410	27,150	136,600	47,610	50,810	103,000	88,110	67,110	35,020

CAL YR 1971 TOTAL 737,589 MEAN 2,007 MAX 9,700 MIN 250 AC-FT 1,453,000
WTR YR 1972 TOTAL 330,760 MEAN 904 MAX 2,560 MIN 280 AC-FT 656,100

NOTE.--No gage-height record Nov. 21 to Jan. 22.

PLATTE RIVER BASIN

155

06676550 HORSE CREEK AT WYXCROSS RANCH, NEAR LA GRANGE, WYO.

LOCATION.--Lat 41°40'35", long 104°12'11", in SW¼NW¼ sec.28, T.20 N., R.61 W., Goshen County, on right bank 0.3 mile upstream from Hawk Springs ditch, 1.4 miles downstream from WyCross ditch, 2.7 miles upstream from Bear Creek, and 3.3 miles northwest of La Grange.

DRAINAGE AREA.--680 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,490 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 23.3 cfs (16,880 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 99 cfs Apr. 30 (gage height, 3.67 ft); minimum daily, 1.1 cfs July 13-19.

Period of record: Maximum discharge, 480 cfs June 11, 1967 (gage height, 6.27 ft); minimum daily, 0.14 cfs Aug. 29, Sept. 7, 8, 1969.

REMARKS.--Records good. Diversions above station for irrigation of about 9,000 acres. Except for extreme high flow WyCross ditch diverts all water from Bear Creek to Horse Creek 1.4 miles upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Wyo. 1970: 1969.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	2.8	13	28	31	28	2.6	73	2.2	2.1	1.6	4.7
2	20	1.7	14	29	29	27	2.8	50	2.0	2.0	2.8	5.0
3	19	1.7	35	24	25	28	3.1	36	2.2	2.2	6.1	4.7
4	28	1.7	52	22	25	26	3.4	36	2.4	2.5	3.9	4.4
5	39	1.6	32	20	28	25	3.1	30	2.6	2.4	3.9	4.2
6	34	1.8	32	25	32	27	2.7	30	2.7	2.2	2.9	3.8
7	19	2.4	40	29	38	30	2.3	31	2.6	1.9	2.0	3.8
8	10	2.4	29	31	43	28	2.1	32	2.4	1.7	2.1	4.0
9	10	2.2	46	37	44	28	5.0	35	2.2	1.5	3.3	3.8
10	10	2.8	46	38	45	29	6.3	38	2.2	1.3	4.3	3.7
11	11	2.3	40	40	45	27	4.3	49	2.1	1.2	4.9	3.9
12	11	1.6	39	38	44	26	2.1	40	2.6	1.2	7.8	4.3
13	10	1.8	36	28	50	22	2.0	36	3.0	1.1	12	5.3
14	8.3	1.8	39	28	52	17	2.3	38	3.1	1.1	6.9	6.0
15	4.1	1.7	38	29	46	19	2.2	35	2.7	1.1	1.7	6.7
16	3.9	1.9	39	37	57	19	2.2	35	3.2	1.1	1.7	6.2
17	3.8	1.5	37	39	64	19	2.2	31	4.7	1.1	1.6	6.2
18	4.1	4.9	40	40	60	19	2.1	19	5.0	1.1	2.2	6.1
19	3.6	21	41	44	67	18	2.0	10	3.7	1.1	2.4	4.7
20	3.2	26	50	48	72	23	2.1	7.0	3.0	1.3	3.3	3.7
21	1.9	19	54	60	72	25	2.0	5.0	2.5	1.7	4.3	3.6
22	2.8	20	56	65	67	23	7.8	3.7	2.2	1.5	3.0	4.0
23	3.2	16	59	65	68	19	7.1	3.4	2.1	1.3	2.3	4.2
24	3.3	14	63	58	61	18	7.0	3.0	2.2	1.5	36	4.3
25	2.8	13	67	51	54	18	6.3	2.4	2.2	1.5	11	4.5
26	1.8	13	69	43	47	16	15	2.0	2.3	1.4	8.9	4.7
27	1.8	14	59	24	48	12	34	1.8	2.5	1.3	7.6	5.0
28	1.7	15	47	25	43	8.2	55	2.4	2.4	1.4	5.0	4.7
29	1.8	15	38	30	31	7.4	77	2.2	2.2	2.9	4.8	5.1
30	2.0	12	28	35	-----	5.4	94	2.6	2.1	3.1	4.0	5.6
31	2.5	-----	27	29	-----	2.8	-----	2.4	-----	1.9	3.8	-----
TOTAL	297.6	236.6	1,305	1,139	1,388	639.8	362.1	721.9	79.3	50.7	168.1	140.9
MEAN	9.60	7.89	42.1	36.7	47.9	20.6	12.1	23.3	2.64	1.64	5.42	4.70
MAX	39	26	69	65	72	30	94	73	5.0	3.1	36	6.7
MIN	1.7	1.5	13	20	25	2.8	2.0	1.8	2.0	1.1	1.6	3.6
AC-FT	590	469	2,590	2,260	2,750	1,270	718	1,430	157	101	333	279

CAL YR 1971 TOTAL 11,678.2 MEAN 32.0 MAX 150 MIN 1.2 AC-FT 23,160
WTR YR 1972 TOTAL 6,529.0 MEAN 17.8 MAX 94 MIN 1.1 AC-FT 12,950

PLATTE RIVER BASIN

06677010 HORSE CREEK AT LOWER STATION, NEAR YODER, WYO.

LOCATION.--Lat 41°53'10", long 104°14'53", in SE¼SE¼ sec.12, T.22 N., R.62 W., Goshen County, on left bank 1.5 miles upstream from Fort Laramie Canal siphon, 3.2 miles southeast of Yoder, and 3.8 miles downstream from Lone Tree Creek.

DRAINAGE AREA.--1,320 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,230 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 18 cfs May 9 (gage height, 2.84 ft); no flow for many days.

Period of record: Maximum discharge, 1,140 cfs June 10, 1967 (gage height, 6.65 ft), from rating curve extended above 320 cfs on basis of slope-area measurement of peak flow; no flow at times in most years.

REMARKS.--Records poor. Flow regulated 22 miles upstream by Hawk Springs Reservoir (capacity, 19,400 acre-ft). Natural flow of stream also affected by diversions for irrigation of about 4,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	.85	.61	2.0	2.0	1.1	.70	1.3	.55	.09	1.2	0
2	1.1	.56	.63	1.3	1.8	1.1	.66	1.2	.51	.19	.42	.10
3	.90	.70	.68	.98	1.6	1.1	.74	16	.40	1.1	.84	.80
4	.90	.77	.72	.75	1.5	1.4	.80	16	.31	.72	1.7	.70
5	.90	.55	.74	.90	1.5	1.3	.86	16	.25	1.8	1.7	.64
6	1.0	.57	.79	1.2	1.6	.93	.76	15	.16	.67	1.2	.54
7	1.4	.60	.68	1.8	1.7	.76	.66	14	.10	.77	.86	.43
8	1.5	.65	.75	2.3	1.6	.96	.62	14	.07	.93	.75	.43
9	1.2	.66	.80	2.7	1.9	.99	.60	15	.06	1.5	.71	.45
10	.98	.63	.91	2.8	1.8	.90	.60	14	.09	.42	.62	.36
11	.86	.60	.90	2.9	1.7	.81	.60	17	.16	.11	.55	.31
12	.73	.60	.75	2.7	1.8	.81	.55	16	.09	.03	.49	.29
13	.67	.59	.76	2.3	1.8	.83	.39	15	.07	.01	.34	.27
14	.66	.23	.81	2.1	1.9	.81	1.4	15	.10	0	.21	.27
15	.66	.15	.76	2.2	1.9	.80	1.8	13	.23	0	.18	.29
16	.70	.16	.75	2.5	2.7	.73	1.2	13	.11	0	.25	.28
17	1.1	.21	.59	2.7	2.9	.72	.76	12	.07	0	.17	.18
18	2.6	.28	.85	2.8	2.3	.70	.66	2.4	.66	0	.06	.17
19	.77	.45	1.1	2.9	2.8	.73	.68	1.6	.59	0	.02	.19
20	.73	.51	1.1	2.9	2.9	1.7	.73	1.4	.61	0	.02	.21
21	.73	.62	1.1	2.9	2.5	1.5	.67	1.2	.71	0	0	.19
22	.73	.71	1.1	2.9	1.9	.98	.55	.89	.65	0	0	.25
23	.73	.66	1.5	2.8	1.8	.90	.49	.88	.71	0	0	.25
24	.68	.66	2.1	2.5	1.4	.92	.51	.83	.57	0	.04	.25
25	.66	.66	2.3	2.3	1.3	.89	.51	.73	.72	0	.06	.25
26	.66	.58	2.1	2.1	1.1	.72	4.5	.64	1.3	0	.03	.29
27	.66	.66	2.0	1.9	1.2	.57	12	.61	1.8	0	.02	.36
28	.75	.58	1.7	1.8	.95	.70	6.4	.70	1.5	0	.01	.31
29	.85	.60	1.7	1.9	1.0	.73	2.4	.61	1.2	0	0	.27
30	.93	.60	1.6	2.0	-----	.73	1.8	.64	.34	.07	0	.31
31	.93	-----	1.8	1.9	-----	.72	-----	.59	-----	.77	0	-----
TOTAL	28.64	16.65	34.68	67.73	52.85	28.54	45.60	237.22	14.69	9.18	12.45	9.64
MEAN	.92	.56	1.12	2.18	1.82	.92	1.52	7.65	.49	.30	.40	.32
MAX	2.6	.85	2.3	2.9	2.9	1.7	12	17	1.8	1.8	1.7	.80
MIN	.66	.15	.59	.75	.95	.57	.39	.59	.06	0	0	0
AC-FT	57	33	69	134	105	57	90	471	29	18	25	19
CAL YR 1971	TOTAL	3,318.72	MEAN	9.09	MAX	111	MIN	0	AC-FT	6,580		
WTR YR 1972	TOTAL	557.87	MEAN	1.52	MAX	17	MIN	0	AC-FT	1,110		

PLATTE RIVER BASIN

157

06679500 NORTH PLATTE RIVER AT MITCHELL, NEBR.

LOCATION (revised).--Lat 41°55'38", long 103°48'48", in NE¼NE¼ sec.33, T.33 N., R.56 W., Scotts Bluff County, near right bank of main channel on downstream side of pier of bridge on State Highway 29 and 0.5 mile south of Mitchell.

DRAINAGE AREA.--28,300 sq mi, approximately, of which about 5,960 sq mi is noncontributing.

PERIOD OF RECORD.--June 1901 to September 1910, May to December 1911, February 1912 to July 1913 (gage heights only), May 1916 to October 1918 (irrigation seasons only), May 1920 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 3,929.3 ft above mean sea level. See WSP 1918 for history of changes prior to May 27, 1960. May 27, 1960, to Aug. 24, 1971, at datum 1.00 ft higher.

EXTREMES.--Current year: Maximum discharge, 2,450 cfs Mar. 20 (gage height, 5.39 ft); minimum daily, 227 cfs Aug. 18, 19.

Period of record: Maximum discharge, 27,500 cfs June 3, 1909 (gage height, 6.45 ft, datum then in use, from graph based on gage readings), from rating curve extended above 17,000 cfs; minimum daily observed, 25 cfs Sept. 25-29, 1908.

REMARKS.--Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

REVISIONS.--WRD Wyo. 1967: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	805	736	610	547	1,590	2,270	691	1,450	1,630	418	488
2	1,220	800	727	606	520	1,860	2,050	444	1,140	1,700	426	570
3	1,160	800	723	583	511	2,000	1,950	330	790	1,620	493	581
4	1,100	810	714	538	547	2,050	1,910	289	790	1,440	534	579
5	1,070	820	705	525	547	2,120	1,660	275	845	1,240	489	597
6	1,050	830	700	534	547	2,160	1,540	268	880	1,010	457	633
7	1,010	835	691	538	547	2,120	1,230	300	925	845	410	621
8	975	845	664	556	552	2,120	1,020	330	945	781	366	646
9	950	855	642	556	561	2,130	915	493	1,010	664	312	649
10	945	870	655	547	565	2,150	850	439	1,180	534	274	650
11	975	885	655	574	556	2,150	820	471	1,310	402	269	647
12	1,020	885	651	579	561	2,160	786	484	1,370	358	258	624
13	1,120	860	664	565	556	2,160	754	475	1,410	326	245	594
14	1,010	840	664	520	570	2,190	786	462	1,570	300	239	561
15	985	845	664	502	570	2,210	805	426	1,680	303	234	546
16	940	825	669	534	579	2,240	786	354	1,770	314	233	520
17	910	820	669	565	583	2,250	763	303	1,770	318	229	486
18	915	800	687	588	574	2,250	745	394	1,790	330	227	458
19	895	795	705	597	565	2,290	745	471	1,760	303	227	449
20	855	786	714	606	565	2,400	736	457	1,780	346	302	420
21	840	781	723	615	561	2,390	714	430	1,760	350	293	431
22	830	768	723	628	552	2,360	691	444	1,810	330	268	451
23	825	772	723	637	552	2,350	673	418	1,890	307	282	481
24	820	781	723	646	579	2,360	651	601	1,930	307	450	505
25	810	777	718	610	727	2,360	628	1,020	1,910	342	554	582
26	790	763	709	547	996	2,380	682	1,370	1,910	493	495	712
27	795	763	696	502	1,270	2,360	805	1,390	1,840	511	440	901
28	795	759	687	507	1,390	2,350	890	1,400	1,740	597	440	998
29	795	750	669	511	1,480	2,290	835	1,440	1,720	543	449	1,040
30	800	745	655	520	-----	2,290	795	1,450	1,650	511	472	991
31	800	-----	619	538	-----	2,280	-----	1,510	-----	430	442	-----
TOTAL	29,325	24,270	21,344	17,484	19,230	68,370	30,485	19,629	44,325	19,485	11,227	18,411
MEAN	946	809	689	564	663	2,205	1,016	633	1,478	629	362	614
MAX	1,320	885	736	646	1,480	2,400	2,270	1,510	1,930	1,700	554	1,040
MIN	790	745	619	502	511	1,590	628	268	790	300	227	420
AC-FT	58,170	48,140	42,340	34,680	38,140	135,600	60,470	38,930	87,920	38,650	22,270	36,520
CAL YR 1971	TOTAL	750,452	MEAN	2,056	MAX	11,400	MIN	282	AC-FT	1,489,000		
WTR YR 1972	TOTAL	323,585	MEAN	884	MAX	2,400	MIN	227	AC-FT	641,800		

PLATTE RIVER BASIN

TRANSBASIN DIVERSIONS FROM NORTH PLATTE RIVER BASIN TO
CACHE LA POUDE RIVER BASIN IN COLORADO

The following seven diversions, which are equipped with water-stage recorders, divert water from tributaries of the North Platte River to the Cache la Poudre River or its tributaries. Records furnished by Colorado Division of Water Resources.

06745500 Cameron Pass ditch diverts water from tributaries of Michigan River in sec.10, T.6 N., R.76 W., to Joe Wright Creek (tributary to Cache la Poudre River) in sec.2, T.6 N., R.76 W.

06746000 Michigan ditch diverts water from Michigan River, headgate in sec.12, T.6 N., R.76 W., and many small tributaries and Agnes Creek (tributary to Michigan River), headgate in sec.15, T.6 N., R.76 W., to Joe Wright Creek (tributary to Cache la Poudre River) in sec.2, T.6 N., R.76 W.

06746500 Skyline ditch diverts water from West Branch Laramie River (tributary to Laramie River, headgate in sec.14, T.8 N., R.76 W., to Chambers Lake (tributary to Cache la Poudre River) in sec.31, T.8 N., R.75 W.

06747000 Laramie-Poudre tunnel diverts water from Laramie River in sec.7, T.8 N., R.75 W., and Rawah Creek (tributary to Laramie River) in sec.14, T.9 N., R.76 W., to Cache la Poudre River in sec.9, T.8 N., R.75 W.

06747200 Bob Creek ditch diverts water from Nunn Creek (tributary to Laramie River) in sec.9, T.9 N., R.75 W., to Roaring Creek (tributary to Cache la Poudre River) in sec.11, T.9 N., R.75 W.

06750000 Columbine ditch diverts water from Nunn Creek (tributary to Laramie River) in sec.3, T.9 N., R.75 W., to North Fork Cache la Poudre River (tributary to Cache la Poudre River) in sec.25, T.10 N., R.75 W.

06750500 Wilson supply ditch diverts water from Sand Creek in sec.22, T.11 N., R.75 W., and at times includes water diverted from tributaries of Deadman Creek in sec.9, T.10 N., R.75 W. Diversion is from the Laramie River basin to Sheep Creek (tributary to North Fork Cache la Poudre River) in sec.23, T.11 N., R.75 W., in the Cache la Poudre River basin. Records herein represent total flow diverted from the Laramie River basin by Wilson supply ditch.

REVISIONS (WATER YEARS).--WSP 1310: 1945, 1947.

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Month	06745500 Cameron Pass ditch	06746000 Michigan ditch	06746500 Skyline ditch	06747000 Laramie- Poudre tunnel	06747200 Bob Creek ditch	06750000 Columbine ditch	06750500 Wilson supply ditch	Total
October.	0	0	0	0	0	0	0	0
November.	0	0	0	0	0	0	0	0
December.	0	0	0	0	0	0	0	0
January.	0	0	0	0	0	0	0	0
February.	0	0	0	0	0	0	0	0
March.	0	0	0	0	0	0	0	0
April.	0	0	0	0	0	0	0	0
May.	0	400	30	4,470	0	0	805	5,700
June.	103	1,280	2,320	5,800	0	0	1,530	11,030
July.	7.9	83	0	5,670	0	0	38	5,800
August.	0	0	0	244	0	0	0	244
September.	0	0	0	0	0	0	0	0
Water year 1972. .	111	1,770	2,350	16,190	0	0	2,370	22,790

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WYO.

LOCATION.--Lat 43°01'08", long 110°07'03", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.8, T.35 N., R.111 W., Sublette County, on left bank 100 ft upstream from bridge on U.S. Highways 187 and 189, 3.4 miles upstream from Beaver Creek, and 12 miles north of Daniel.

DRAINAGE AREA.--468 sq mi.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft above mean sea level.

AVERAGE DISCHARGE.--41 years, 514 cfs (372,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,840 cfs June 9 (gage height, 5.77 ft); minimum daily, 91 cfs Feb. 3.

Period of record: Maximum discharge, 4,840 cfs June 9, 1972 (gage height, 5.77 ft); minimum recorded, 31 cfs Nov. 26, 1933 (gage height, 0.70 ft), from rating curve extended below 120 cfs.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions above station for irrigation of about 10,200 acres, of which about 6,100 acres lies below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 979: 1932(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	199	130	136	98	148	170	489	2,990	1,690	761	440
2	232	198	135	135	95	140	165	451	3,530	1,820	810	455
3	216	202	128	134	91	140	169	520	3,950	1,840	845	445
4	214	215	127	128	94	148	182	673	3,990	1,720	803	405
5	215	228	120	122	98	155	195	836	3,970	1,510	747	390
6	212	248	117	126	100	159	215	1,010	4,040	1,430	677	435
7	208	250	109	132	104	155	260	1,150	4,240	1,470	646	514
8	204	251	105	134	106	149	277	1,270	4,500	1,490	640	538
9	197	249	105	136	110	150	299	1,220	4,760	1,500	664	502
10	197	240	100	134	110	155	317	1,050	4,640	1,460	733	532
11	198	224	99	128	104	161	326	986	4,490	1,440	726	580
12	199	205	95	124	100	160	317	962	4,290	1,430	719	580
13	198	192	99	124	104	155	299	988	3,950	1,430	747	544
14	200	200	104	118	108	154	281	1,170	3,460	1,440	782	485
15	221	205	105	114	107	161	318	1,380	3,070	1,440	803	435
16	227	211	109	110	110	171	325	1,610	2,890	1,390	824	390
17	240	200	110	115	113	182	309	1,930	2,770	1,270	810	350
18	259	180	112	121	115	181	265	1,980	2,700	1,180	761	324
19	252	165	116	126	117	184	241	2,040	2,570	1,100	754	324
20	238	170	121	132	117	190	232	2,210	2,370	1,060	754	350
21	244	165	120	139	121	191	233	2,160	2,070	1,090	705	332
22	240	150	122	136	122	197	235	2,110	1,940	1,030	652	320
23	238	140	123	129	128	196	240	1,800	1,940	920	616	304
24	238	126	129	121	128	186	273	1,710	2,140	817	616	292
25	239	125	134	115	128	177	330	1,640	2,170	782	586	272
26	238	125	139	106	136	166	345	1,650	2,000	782	550	260
27	241	121	137	105	139	155	355	1,760	1,610	789	502	253
28	230	130	133	102	140	151	421	1,950	1,340	775	455	268
29	220	129	128	98	148	160	555	2,190	1,310	733	425	272
30	210	126	130	98	-----	175	590	2,400	1,470	712	430	268
31	205	-----	131	96	-----	180	-----	2,670	-----	733	450	-----
TOTAL	6,892	5,569	3,672	3,774	3,291	5,132	8,739	45,965	91,160	38,273	20,993	11,859
MEAN	222	186	118	122	113	166	291	1,483	3,039	1,235	677	395
MAX	259	251	139	139	148	197	590	2,670	4,760	1,840	845	580
MIN	197	121	95	96	91	140	165	451	1,310	712	425	253
AC-FT	13,670	11,050	7,280	7,490	6,530	10,180	17,330	91,170	180,800	75,910	41,640	23,520
CAL YR 1971 TOTAL	254,078											
MEAN 696												
MAX 4,720												
MIN 83												
AC-FT 504,000												
WTR YR 1972 TOTAL	245,319											
MEAN 670												
MAX 4,760												
MIN 91												
AC-FT 486,600												

NOTE.--No gage-height record Dec. 8 to Apr. 4.

GREEN RIVER BASIN

09189500 HORSE CREEK AT SHERMAN RANGER STATION, WYO.

LOCATION.--Lat 42°56'40", long 110°23'20", in SW¼ sec.6, T.34 N., R.113 W., Sublette County, Bridger National Forest, on left bank 0.5 mile east of Sherman ranger station, 0.8 mile downstream from Spring Creek, 5.5 miles upstream from South Horse Creek, and 17 miles west of Daniel.

DRAINAGE AREA.--43.0 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 7,770.71 ft above mean sea level.

AVERAGE DISCHARGE.--18 years, 68.9 cfs (49,920 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,550 cfs June 6 (gage height, 7.37 ft); minimum daily, 4.3 cfs Feb. 3.

Period of record: Maximum discharge, 1,860 cfs June 1, 1956; maximum gage height, 7.37 ft June 6, 1972; minimum daily discharge, 1.4 cfs Aug. 11, 14, 15, 19, 1957.

REMARKS.--Records fair except those for winter period and period of no gage-height record, which are poor. Diversion for irrigation of about 360 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	6.6	6.8	4.6	5.4	6.4	52	890	378	40	13
2	13	10	6.2	6.6	4.5	5.6	6.2	52	1,040	318	38	16
3	13	11	6.4	6.4	4.3	5.7	6.0	60	890	254	34	12
4	15	10	6.7	6.2	4.5	5.9	6.2	71	950	222	31	10
5	16	9.6	6.8	6.0	4.7	6.0	6.8	83	1,090	207	30	12
6	15	9.4	6.8	5.8	5.0	6.0	7.4	103	1,300	210	26	39
7	14	10	6.4	6.0	5.2	5.8	8.6	125	1,130	201	24	19
8	13	11	6.0	6.4	5.6	5.6	9.8	148	1,010	192	23	14
9	12	11	5.8	6.8	6.0	6.0	11	155	1,110	172	21	13
10	11	10	5.6	6.6	6.0	6.2	10	152	1,100	162	19	19
11	10	9.5	5.4	6.4	5.8	6.6	11	162	1,030	158	18	17
12	10	9.3	5.2	5.8	5.8	6.8	13	165	1,030	150	18	13
13	10	9.0	5.2	5.4	6.4	7.2	15	178	944	132	21	11
14	11	8.8	5.0	5.2	7.0	7.6	14	207	872	122	30	11
15	13	8.2	5.2	5.4	7.6	7.8	14	228	812	103	22	11
16	15	8.0	5.4	5.8	8.0	8.0	17	430	812	89	21	10
17	20	7.8	5.6	6.4	7.6	8.2	21	458	878	80	18	9.7
18	18	7.5	5.4	6.8	7.3	8.0	25	458	740	71	17	9.5
19	13	7.3	5.4	7.0	7.0	7.8	31	476	635	66	19	11
20	15	7.8	5.8	7.2	6.6	8.0	29	466	565	66	19	14
21	15	8.2	6.0	7.6	7.2	8.0	32	500	567	66	16	11
22	13	8.0	6.4	7.6	7.8	8.2	33	495	515	55	14	10
23	12	7.8	6.8	7.2	8.3	7.8	36	378	520	52	15	10
24	13	7.4	7.2	6.8	7.4	7.6	40	362	485	49	15	9.7
25	14	7.2	7.4	6.2	6.6	7.0	43	386	404	47	12	9.7
26	12	6.9	7.2	5.8	6.4	6.8	40	462	322	47	12	9.7
27	12	7.2	6.8	5.6	6.0	6.0	43	555	310	59	11	11
28	11	7.2	6.4	5.4	5.5	5.6	48	640	362	45	11	14
29	10	7.0	6.2	5.2	5.2	5.8	50	565	404	40	11	12
30	9.4	6.7	6.2	4.9	-----	6.4	51	605	404	37	11	12
31	9.7	-----	6.6	4.7	-----	6.0	-----	660	-----	37	11	-----
TOTAL	404.1	258.8	190.1	192.0	179.9	209.4	684.4	9,837	23,121	3,887	628	393.3
MEAN	13.0	8.63	6.13	6.19	6.20	6.75	22.8	317	771	125	20.3	13.1
MAX	20	11	7.4	7.6	8.3	8.2	51	660	1,300	378	40	39
MIN	9.4	6.7	5.0	4.7	4.3	5.4	6.0	52	310	37	11	9.5
AC-FT	802	513	377	381	357	415	1,360	19,510	45,860	7,710	1,250	780
CAL YR 1971	TOTAL 43,053.1	MEAN 118	MAX 1,140	MIN 3.8	AC-FT 85,400							
WTR YR 1972	TOTAL 39,985.0	MEAN 109	MAX 1,300	MIN 4.3	AC-FT 79,310							

PEAK DISCHARGE (BASE, 200 CFS)

NOTE.--No gage-height record Jan. 14 to Apr. 4.

DATE	TIME	G.HT.	DISCHARGE
5-22	0030	5.19	565
6-6	0130	7.37	1,550

GREEN RIVER BASIN

161

09193000 NEW FORK RIVER BELOW NEW FORK LAKES, NEAR CORA, WYO.

LOCATION.--Lat 43°04'43", long 109°59'41", in sec.21, T.36 N., R.110 W., Sublette County, on left bank 1.8 miles downstream from New Fork Lakes and 9.6 miles north of Cora.

DRAINAGE AREA.--36.2 sq mi.

PERIOD OF RECORD.--October 1938 to October 1971, May to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1313. Prior to October 1943, published as New Fork below New Fork Lake, near Cora, and October 1943 to September 1970, published as New Fork River below New Fork Lake, near Cora.

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft (from topographic map). Prior to Sept. 16, 1949, at site 70 ft downstream at same datum.

AVERAGE DISCHARGE.--33 years (1938-71), 51.3 cfs (37,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 630 cfs June 10 (gage height, 5.74 ft); minimum daily during period of operation, 5.3 cfs Apr. 8, 9, 22.

Period of record: Maximum discharge, 630 cfs June 10, 1972 (gage height, 5.74 ft); maximum gage height recorded, 5.85 ft Jan. 31, 1961 (backwater from ice); minimum daily discharge, 0.1 cfs May 13, 1941, Sept. 20-22, 1950, when gates in dam at New Fork Lakes were closed.

REMARKS.--Records good. Flow regulated by New Fork Lakes 1.8 miles upstream (capacity, 20,300 acre-ft). No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52						5.6	6.1	252	328	16	16
2	41						5.5	5.9	322	328	16	16
3	40						5.4	6.6	415	325	16	16
4	40						5.5	7.1	427	324	16	16
5	40						5.6	8.2	442	320	15	17
6	40						5.6	7.4	516	315	15	16
7	39						5.4	8.1	565	313	15	26
8	39						5.3	7.7	572	346	16	38
9	39						5.3	6.7	565	408	15	38
10	39						5.6	6.4	610	408	15	37
11	39						5.8	6.2	576	393	15	37
12	39						5.8	6.2	562	388	16	37
13	39						5.7	6.0	534	385	16	37
14	39						5.6	5.9	484	381	16	37
15	39						5.5	5.9	474	376	16	37
16	41						5.8	5.8	446	342	16	37
17	41						5.8	6.0	427	288	16	36
18	41						5.7	6.1	415	284	16	36
19	41						5.7	6.3	400	281	16	36
20	40						5.6	6.3	376	279	16	36
21	33						5.4	6.2	361	277	16	35
22	15						5.3	6.0	294	272	16	35
23	15						5.4	18	116	267	16	35
24	15						5.7	77	367	176	16	33
25	15						5.9	79	355	16	16	33
26	15						5.8	73	346	16	16	33
27	15						5.9	116	340	16	16	33
28	15						6.4	116	334	16	16	33
29	15						6.6	116	328	15	16	33
30	15				-----		6.3	176	328	15	16	32
31	15	-----			-----		-----	313	-----	16	16	-----
TOTAL	991						170.5	1,227.1	12,549	7,914	490	937
MEAN	32.0						5.68	39.6	418	255	15.8	31.2
MAX	52						6.6	313	610	408	16	38
MIN	15						5.3	5.8	116	15	15	16
AC-FT	1,970						338	2,430	24,890	15,700	972	1,860

GREEN RIVER BASIN

09196500 PINE CREEK ABOVE FREMONT LAKE, WYO.

LOCATION.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., Sublette County, Bridger National Forest, on right bank 0.5 mile upstream from Fremont Lake, 0.5 mile downstream from Fremont Creek, and 12 miles northeast of Pinedale.

DRAINAGE AREA.--75.8 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (from topographic map).

AVERAGE DISCHARGE.--18 years, 181 cfs (131,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,910 cfs June 7 (gage height, 6.46 ft); minimum daily, 20 cfs Feb. 13-16, 23.

Period of record: Maximum discharge, 2,550 cfs June 16, 1959 (gage height, 7.15 ft); minimum daily, 6.0 cfs Dec. 19, 20, 1969.

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

REVISIONS.--WSP 1443: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	72	31	31	40	26	23	44	1,260	1,180	333	105
2	51	71	30	31	41	26	23	41	1,450	1,170	361	103
3	49	69	32	30	43	30	22	45	1,470	984	353	101
4	49	66	30	30	36	30	22	54	1,550	798	313	98
5	50	62	30	30	32	32	22	60	1,600	810	273	100
6	56	61	31	31	30	30	24	68	1,810	894	248	121
7	63	60	30	32	29	30	26	70	1,800	924	237	128
8	71	58	30	31	28	30	26	72	1,760	930	230	132
9	74	56	30	30	27	29	26	74	1,690	894	228	134
10	80	53	28	31	25	28	26	72	1,760	846	221	136
11	86	50	28	33	22	28	25	66	1,730	834	212	139
12	87	48	27	33	21	27	24	64	1,760	786	208	134
13	86	49	28	31	20	26	24	76	1,620	792	203	127
14	86	48	27	30	20	26	25	120	1,490	828	206	119
15	91	46	27	30	20	25	27	170	1,440	768	233	112
16	95	44	27	31	20	26	29	230	1,280	666	253	105
17	100	43	27	33	21	30	30	260	1,310	620	239	99
18	108	44	25	37	22	34	29	271	1,190	555	215	95
19	110	46	25	39	22	36	28	293	1,030	515	204	96
20	108	40	24	40	22	37	30	307	894	470	200	93
21	108	39	23	39	21	38	30	305	930	490	190	88
22	102	38	23	40	21	41	30	322	1,020	445	174	84
23	102	38	24	43	20	44	32	278	1,050	373	162	81
24	100	35	25	41	21	39	36	258	1,120	337	153	79
25	100	35	28	40	21	37	39	244	518	333	146	74
26	96	35	30	38	21	32	38	245	696	325	138	71
27	93	35	30	37	22	27	36	302	550	313	130	68
28	87	35	28	36	23	24	40	417	530	309	122	67
29	82	34	29	37	25	22	46	567	762	301	118	63
30	80	33	32	38	-----	22	46	777	1,010	293	114	60
31	79	-----	33	38	-----	23	-----	1,000	-----	297	108	-----
TOTAL	2,580	1,443	872	1,071	736	935	884	7,172	38,480	20,080	6,525	3,012
MEAN	83.2	48.1	28.1	34.5	25.4	30.2	29.5	231	1,283	648	210	100
MAX	110	72	33	43	43	44	46	1,000	1,810	1,180	361	139
MIN	49	33	23	30	20	22	22	41	530	293	108	60
AC-FT	5,120	2,860	1,730	2,120	1,460	1,850	1,750	14,230	76,330	39,830	12,940	5,970

CAL YR 1971 TOTAL 85,923 MEAN 235 MAX 2,090 MIN 15 AC-FT 170,400
WTR YR 1972 TOTAL 83,790 MEAN 229 MAX 1,810 MIN 20 AC-FT 166,200

PEAK DISCHARGE (BASE, 800 CFS)

NOTE.--No gage-height record Apr. 11 to May 17.

DATE	TIME	G.HT.	DISCHARGE
6- 7	0030	6.46	1,910
7- 2	0300	5.71	1,280

GREEN RIVER BASIN

163

09202000 BOULDER CREEK BELOW BOULDER LAKE, NEAR BOULDER, WYO.

LOCATION.--Lat 42°49'10", long 109°42'59", in SW¼NE¼NW¼ sec.23, T.33 N., R.108 W., Sublette County, on right bank 1.5 miles downstream from outlet of Boulder Lake and 5 miles north of Boulder.

DRAINAGE AREA.--130 sq mi.

PERIOD OF RECORD.--October 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (from topographic map).

AVERAGE DISCHARGE.--32 years (1939-71), 195 cfs (141,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,690 cfs June 9 (gage height, 5.93 ft); minimum daily during period of operation, 2.3 cfs Oct. 29.
Period of record: Maximum discharge, 2,810 cfs June 15, 1953 (gage height, 6.12 ft); no flow Nov. 28, 1939, to Apr. 15, 1940, Nov. 18, 1944.

REMARKS.--Records fair. Flow regulated 1.5 miles upstream by Boulder Lake (capacity, about 22,300 acre-ft). One diversion above station for irrigation of about 700 acres below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94							14	1,520	1,060	228	127
2	92							14	1,880	1,110	225	125
3	92							14	2,070	1,050	219	160
4	92							14	2,140	941	216	160
5	92							14	2,160	836	216	160
6	92							14	2,320	764	210	160
7	92							14	2,490	735	201	160
8	90							14	2,620	725	195	160
9	90							14	2,670	710	183	160
10	88							135	2,660	681	174	159
11	88							294	2,620	650	165	159
12	88							280	2,600	622	155	158
13	88							276	2,500	588	148	158
14	88							276	2,340	564	148	155
15	88							276	2,200	546	145	155
16	86							276	2,080	508	142	155
17	63							280	1,980	480	140	155
18	4.4							283	1,870	444	136	155
19	3.7							318	1,590	408	133	155
20	3.5							353	1,300	396	131	152
21	3.5							404	1,250	392	125	152
22	3.3							452	1,250	400	118	152
23	3.3							472	1,140	392	112	152
24	3.3							484	1,250	368	104	150
25	3.3							504	1,370	339	100	150
26	3.3							532	1,300	311	96	150
27	3.2							640	1,140	294	92	148
28	2.7							654	948	280	88	148
29	2.3							489	896	258	102	148
30	2.5							948	962	246	133	145
31	2.5	-----			-----		-----	1,190	-----	234	140	-----
TOTAL	1,547.8							9,942	55,116	17,334	4,720	4,581
MEAN	49.9							321	1,837	559	152	153
MAX	94							1,190	2,670	1,110	228	160
MIN	2.3							14	896	234	88	125
AC-FT	3,070							19,720	109,300	34,380	9,360	9,090

GREEN RIVER BASIN

09203000 EAST FORK RIVER NEAR BIG SANDY, WYO.

LOCATION.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., Sublette County, on left bank 1 mile downstream from Jim Creek and 4 miles northeast of Big Sandy.

DRAINAGE AREA.--79.2 sq mi.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as East Fork near Big Sandy. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (by barometer).

AVERAGE DISCHARGE.--34 years, 103 cfs (74,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,700 cfs June 7 (gage height, 7.02 ft); minimum daily, 8.8 cfs Feb. 25.

Period of record: Maximum discharge, 1,790 cfs June 11, 1965 (gage height, 7.16 ft), from rating curve extended above 1,200 cfs on basis of slope-area measurement at gage height 6.88 ft; minimum observed, 1.2 cfs Jan. 4, 1940 (discharge measurement).

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	13	12	19	12	22	66	1,450	555	79	26
2	21	18	13	13	20	13	22	64	1,440	490	78	30
3	21	19	14	12	19	13	21	71	1,450	375	78	29
4	23	20	15	11	18	13	23	85	1,440	288	71	25
5	24	20	15	10	17	14	24	104	1,350	281	71	27
6	25	21	15	11	15	15	26	115	1,510	285	66	50
7	28	21	14	12	14	15	30	142	1,520	281	63	52
8	30	22	13	12	14	14	31	140	1,530	285	60	43
9	30	22	12	11	13	14	32	142	1,410	254	61	37
10	28	21	12	10	12	15	33	144	1,420	230	58	32
11	27	20	11	11	11	16	33	127	1,350	225	54	34
12	25	19	11	12	10	16	32	117	1,350	220	52	33
13	23	18	10	11	9.6	15	31	121	1,180	213	52	30
14	22	16	9.7	12	9.3	15	30	151	1,040	208	51	28
15	22	16	10	13	9.6	15	34	213	999	190	52	25
16	23	15	10	14	9.6	16	38	271	940	165	52	23
17	28	14	11	16	10	16	38	335	890	153	49	20
18	34	15	11	17	11	17	34	420	800	140	46	19
19	32	16	10	18	11	17	33	515	790	131	47	23
20	31	18	11	19	11	18	34	640	595	140	47	29
21	31	18	11	18	10	20	32	670	605	195	44	28
22	25	17	11	19	9.8	22	32	645	640	155	41	24
23	25	16	12	20	9.4	24	32	550	630	121	38	23
24	27	17	12	20	9.3	24	38	535	745	104	36	24
25	32	16	13	19	8.8	23	46	525	680	97	36	22
26	28	16	14	18	9.3	22	45	530	545	92	32	20
27	26	15	13	18	10	20	44	595	420	90	29	20
28	24	14	12	17	11	19	52	775	420	87	27	20
29	21	14	11	18	11	18	66	971	530	81	26	20
30	18	14	11	18	-----	19	72	1,100	550	76	25	18
31	17	-----	12	19	-----	21	-----	1,300	-----	78	25	-----
TOTAL	791	526	372.7	461	351.7	531	1,060	12,179	30,119	6,285	1,546	834
MEAN	25.5	17.5	12.0	14.9	12.1	17.1	35.3	393	1,004	203	49.9	27.8
MAX	34	22	15	20	20	24	72	1,300	1,530	555	79	52
MIN	17	14	9.7	10	8.8	12	21	64	420	76	25	18
AC-FT	1,570	1,040	739	914	698	1,050	2,100	24,160	59,740	12,470	3,070	1,650
CAL YR 1971	TOTAL 47,104.5			MEAN 129	MAX 1,310	MIN 6.2	AC-FT 93,430					
WTR YR 1972	TOTAL 55,056.4			MEAN 150	MAX 1,530	MIN 8.8	AC-FT 109,200					

PEAK DISCHARGE (BASE, 700 CFS)

NOTE.--No gage-height record Dec. 4 to Mar. 17.

DATE	TIME	G.HT.	DISCHARGE
6-7	0300	7.02	1,700
6-24	0430	5.57	810

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LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼NE¼NE¼ sec.22, T.30 N., R.110 W., Sublette County, on right bank 35 ft downstream from old highway bridge, 3.4 miles upstream from mouth, and 9.5 miles northeast of Big Pinev.

Period of record: Maximum discharge, 9,170 cfs June 10, 1972 (gage height, 8.15 ft); minimum daily, 90 cfs Jan. 13, 1963.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres above station. Water-quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	482	250	215	155	235	424	610	3,980	2,830	1,010	460
2	464	493	230	215	150	224	446	538	4,990	3,040	968	462
3	457	469	220	205	145	222	522	520	5,840	3,130	954	472
4	444	486	215	195	150	234	560	535	6,450	3,040	916	450
5	426	514	210	185	155	245	617	612	7,020	2,790	929	447
6	417	457	200	195	160	251	705	659	7,260	2,450	874	518
7	413	448	185	200	165	270	811	700	7,820	2,270	848	527
8	423	483	180	204	170	290	804	736	8,560	2,230	803	505
9	420	505	180	208	175	350	729	782	8,860	2,220	780	496
10	418	495	175	200	175	415	681	750	9,100	2,200	742	491
11	419	479	170	195	165	455	659	879	8,950	2,150	725	498
12	415	448	165	190	160	580	667	789	8,670	2,070	699	486
13	411	454	170	185	165	660	621	743	8,470	2,000	675	477
14	415	450	180	180	170	660	583	722	8,000	1,930	686	480
15	423	451	180	172	170	740	547	716	7,320	1,930	678	467
16	431	441	185	170	174	860	547	789	6,800	1,890	679	459
17	452	429	190	175	180	930	571	917	6,380	1,800	686	449
18	488	415	195	185	182	880	576	1,040	6,130	1,760	683	440
19	502	368	200	195	185	940	547	1,190	5,680	1,650	718	458
20	502	350	208	200	186	1,040	538	1,390	5,060	1,680	758	461
21	498	370	205	210	192	990	530	1,580	4,410	1,710	731	452
22	493	389	210	200	194	991	511	1,710	3,960	1,660	689	453
23	486	391	215	192	200	895	486	1,620	3,940	1,580	656	466
24	481	400	220	180	200	844	674	1,500	4,160	1,470	643	434
25	485	380	225	170	200	783	701	1,430	4,720	1,380	620	424
26	485	350	225	165	215	804	692	1,360	4,960	1,340	565	420
27	484	340	215	162	225	726	564	1,420	4,610	1,260	540	417
28	487	310	210	160	235	575	636	1,560	3,900	1,220	520	407
29	471	290	205	155	225	488	625	1,900	3,210	1,130	492	398
30	479	270	205	155	-----	465	652	2,460	2,840	1,070	487	391
31	492	-----	210	160	-----	433	-----	3,060	-----	1,030	470	-----
TOTAL	14,111	12,607	6,233	5,778	5,223	18,515	18,326	35,217	182,050	59,910	22,224	13,745
MEAN	455	420	201	186	180	597	611	1,136	6,068	1,933	717	458
MAX	502	514	250	215	235	1,040	911	3,060	9,100	3,130	1,010	527
MIN	411	270	165	155	145	222	424	520	2,840	1,030	470	391
AC-FT	27,990	25,010	12,360	11,460	10,360	36,720	36,					

GREEN RIVER BASIN

09205500 NORTH PINEY CREEK NEAR MASON, WYO.

LOCATION.--Lat 42°39'30", long 110°20'30", in SE¼ sec.19, T.31 N., R.113 W., Sublette County, on left bank 3 miles west of Mason and 15 miles northwest of Big Piney.

DRAINAGE AREA.--58 sq mi, approximately.

PERIOD OF RECORD.--May 1915 to October 1916, October 1931 to October 1971, May to September 1972 (discontinued). Monthly discharge only for some periods, published in WSP 1313. Published as "near Marbleton" 1915-16.

GAGE.--Water-stage recorder. Altitude of gage is 7,520 ft (from topographic map). Prior to Oct. 6, 1970, at site 600 ft upstream at different datums.

AVERAGE DISCHARGE.--41 years (1915-16, 1931-71), 57.1 cfs (41,370 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 705 cfs June 6 (gage height, 5.75 ft); minimum daily during period of operation, 31 cfs Oct. 30.

Period of record: Maximum discharge, 747 cfs June 22, 1971; maximum gage height, 5.52 ft June 27, 1971; minimum daily discharge, 3.1 cfs Mar. 15, 1967.

REMARKS.--Records poor. Diversions above station for irrigation of about 610 acres above and below station. Hidden ditch No. 1 bypasses the station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60							51	465	230	92	42
2	53							49	515	237	90	43
3	50							53	538	230	83	41
4	48							60	565	210	81	41
5	47							70	582	195	79	40
6	46							84	650	197	73	52
7	45							95	588	200	71	46
8	44							110	538	202	66	42
9	44							110	508	200	64	40
10	43							112	502	199	63	40
11	43							116	480	195	66	40
12	42							117	460	193	66	36
13	42							133	440	193	66	35
14	42							162	400	195	68	34
15	45							200	375	188	63	34
16	48							240	360	176	63	34
17	53							270	350	160	58	33
18	50							274	340	153	55	33
19	45							286	320	146	57	35
20	45							280	285	149	55	36
21	44							286	265	143	52	35
22	42							274	270	130	50	35
23	42							224	280	117	51	34
24	41							214	280	110	49	34
25	43							214	270	110	48	34
26	42							230	240	110	46	33
27	41							246	215	108	44	33
28	39							280	195	108	43	35
29	35							318	210	98	42	36
30	31				-----			348	215	97	43	36
31	34	-----			-----		-----	402	-----	94	42	-----
TOTAL	1,369							5,908	11,701	5,073	1,889	1,122
MEAN	44.2							191	390	164	60.9	37.4
MAX	60							402	650	237	92	52
MIN	31							49	195	94	42	33
AC-FT	2,720							11,720	23,210	10,060	3,750	2,230

NOTE.--No gage-height record June 11 to July 27.

GREEN RIVER BASIN

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09207700 DRY PINEY CREEK NEAR BIG PINEY, WYO.

LOCATION.--Lat 42°23'25", long 110°15'09", in NW¼NE¼ sec.27, T.28 N., R.113 W., Sublette County, on right bank 8.3 miles upstream from mouth and 16.3 miles southwest of Big Piney.

DRAINAGE AREA.--67 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,150 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 3.83 cfs (2,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 95 cfs June 8 (gage height, 5.30 ft); minimum daily, 0.39 cfs Feb. 3.

Period of record: Maximum discharge, 98 cfs June 8, 1969 (gage height, 5.75 ft), from rating curve extended above 13 cfs on basis of slope-area measurement of peak flow; maximum observed gage height, 6.61 ft Mar. 26, 1971 (backwater from ice); no flow for many days most years.

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

Diversions for irrigation of about 50 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.1	1.5	.52	.41	.84	8.0	14	38	21	6.2	4.8
2	3.5	2.2	1.4	.50	.40	.85	10	18	47	20	6.6	6.1
3	3.5	2.3	1.3	.47	.39	.88	11	20	50	19	5.8	4.8
4	3.0	2.5	1.2	.45	.41	.90	12	24	50	18	5.5	3.7
5	2.6	2.4	1.1	.48	.43	.96	18	30	53	17	5.4	4.9
6	2.6	2.4	1.0	.50	.45	1.1	26	32	68	16	4.5	6.2
7	2.4	2.5	.96	.52	.47	1.3	20	31	59	15	4.0	5.2
8	2.1	2.6	.90	.54	.47	1.5	15	32	78	14	3.9	4.2
9	2.2	2.8	.80	.56	.46	2.0	15	31	65	13	4.0	3.9
10	2.1	2.9	.70	.60	.45	3.0	15	26	61	12	3.6	4.0
11	2.0	3.0	.54	.62	.44	4.3	17	27	60	12	3.3	3.9
12	1.9	3.0	.49	.60	.47	6.2	15	25	57	12	3.1	3.5
13	2.0	2.9	.48	.58	.52	7.7	14	25	54	11	3.5	3.2
14	2.0	2.9	.46	.55	.50	9.6	11	27	50	10	4.5	3.3
15	2.1	2.7	.47	.54	.55	11	14	31	47	10	5.4	3.1
16	2.6	2.6	.49	.58	.62	12	16	34	45	10	5.0	2.8
17	3.9	2.4	.50	.62	.66	11	17	35	46	9.8	5.0	2.7
18	3.7	2.2	.54	.65	.66	10	14	35	43	10	4.1	2.7
19	2.7	2.3	.52	.68	.64	9.5	13	37	43	9.1	5.0	3.0
20	2.6	2.4	.54	.70	.63	9.1	14	40	38	9.4	5.5	3.1
21	2.4	2.6	.54	.67	.66	8.7	15	37	35	10	6.0	3.0
22	2.1	2.8	.56	.63	.71	9.0	16	36	34	8.9	5.5	3.0
23	2.3	2.7	.60	.60	.76	10	12	34	39	8.2	5.5	3.0
24	2.7	2.5	.64	.58	.80	10	17	35	36	8.0	5.0	3.0
25	3.1	2.6	.68	.52	.80	10	19	37	48	8.0	4.9	3.2
26	2.7	2.4	.64	.48	.79	9.1	14	36	33	7.7	4.5	3.1
27	2.7	2.2	.60	.47	.78	11	17	36	29	9.1	4.0	3.6
28	2.3	2.0	.54	.45	.82	13	22	36	27	8.2	3.7	4.1
29	2.2	1.8	.50	.44	.88	8.2	24	37	24	7.0	3.5	3.7
30	2.1	1.6	.49	.43	-----	7.8	20	37	23	6.1	3.6	3.5
31	2.2	-----	.50	.42	-----	7.4	-----	39	-----	6.2	3.6	-----
TOTAL	79.6	74.3	22.18	16.95	17.03	207.93	471.0	974	1,380	355.7	143.7	112.3
MEAN	2.57	2.48	.72	.55	.59	6.71	15.7	31.4	46.0	11.5	4.64	3.74
MAX	3.9	3.0	1.5	.70	.88	13	26	40	78	21	6.6	6.2
MIN	1.9	1.6	.46	.42	.39	.84	8.0	14	23	6.1	3.1	2.7
AC-FT	158	147	44	34	34	412	934	1,930	2,740	706	285	223
CAL YR 1971	TOTAL 3,099.41			MEAN 8.49	MAX 62	MIN 0	AC-FT 6,150					
WTR YR 1972	TOTAL 3,854.69			MEAN 10.5	MAX 78	MIN .39	AC-FT 7,650					

PEAK DISCHARGE (BASE, 20 CFS)

NOTE.--No gage-height record Dec. 15 to Mar. 11.

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
4-6	2230	3.93	35	4-28	2300	3.80	32
4-16	2200	3.58	26	6-8	1400	5.30	95
4-24	2330	3.67	28	6-25	0830	4.49	62

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WYO.

LOCATION.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., Lincoln County, Bridger National Forest, on right bank 0.5 mile upstream from Crystal Creek, 2 miles southeast of La Barge Meadows ranger station, and 29 miles northwest of La Barge. Prior to Aug. 31, on left bank.

DRAINAGE AREA.--6.3 sq mi, approximately.

PERIOD OF RECORD.--October 1940 to September 1942, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (from topographic map). Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

AVERAGE DISCHARGE.--24 years, 14.4 cfs (10,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 196 cfs June 9 (gage height, 5.48 ft); maximum gage height, 6.68 ft May 29 (backwater from snow); minimum daily discharge, 2.8 cfs Feb. 17.
Period of record: Maximum discharge, 196 cfs June 9, 1972 (gage height, 5.48 ft); maximum gage height, 7.08 ft Nov. 25, 1967 (backwater from snow); minimum daily discharge, 1.3 cfs Jan. 29 to Feb. 2, 1963.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	6.2	5.1	4.9	4.5	3.2	3.7	5.9	130	59	13	7.6
2	8.4	5.5	5.1	5.0	4.5	3.2	3.8	5.9	123	54	13	7.1
3	9.4	5.9	4.8	4.9	4.5	3.0	3.6	5.9	122	49	13	11
4	9.2	6.2	5.0	4.6	4.5	3.0	3.7	7.6	127	44	12	9.2
5	8.8	5.5	5.0	4.7	4.2	3.0	3.7	9.2	148	40	12	9.5
6	8.8	5.1	5.0	4.9	4.5	2.9	3.7	11	161	39	11	10
7	8.0	5.5	5.0	4.9	4.5	3.0	3.8	12	152	37	11	12
8	7.6	5.5	4.8	5.1	4.5	3.1	3.8	13	137	36	10	11
9	7.1	5.5	4.8	5.1	4.5	3.0	3.8	13	149	34	10	9.7
10	7.1	5.1	4.5	5.0	4.2	3.1	3.9	14	146	33	10	8.8
11	7.1	5.1	4.6	5.1	4.2	3.1	4.0	15	141	31	10	8.8
12	6.7	5.9	4.7	5.1	4.2	3.1	4.0	16	139	31	10	8.6
13	6.7	5.9	4.7	4.9	4.2	3.1	3.9	21	131	29	10	7.9
14	6.7	5.1	4.6	4.7	4.2	3.0	3.9	29	121	27	10	7.6
15	7.6	5.1	4.6	4.7	3.9	3.0	4.0	41	113	26	10	6.7
16	8.4	5.1	4.3	4.7	3.7	3.1	4.1	58	116	25	10	6.7
17	8.8	4.8	3.8	4.7	2.8	3.2	4.0	78	121	24	10	6.7
18	8.4	4.5	4.1	5.0	3.7	3.2	4.0	82	112	23	10	6.2
19	8.0	5.1	4.3	5.2	3.9	3.2	3.9	84	97	21	11	7.6
20	8.0	5.1	4.6	5.2	3.5	3.3	4.0	84	88	21	10	6.7
21	7.6	5.1	4.7	5.3	3.5	3.3	4.2	69	84	21	10	6.2
22	7.6	5.1	4.8	5.4	3.5	3.4	4.2	55	84	19	9.6	6.2
23	7.6	5.1	4.9	5.2	3.5	3.3	4.5	45	81	18	9.0	6.2
24	7.6	5.5	4.9	5.1	3.5	3.3	4.7	44	87	17	8.9	5.9
25	7.6	5.5	4.9	5.0	3.2	3.4	4.7	53	84	16	9.1	6.2
26	7.6	5.1	4.8	4.9	3.2	3.4	4.8	58	71	16	8.6	6.2
27	7.1	5.5	4.6	4.8	3.2	3.3	4.9	69	63	15	8.2	7.1
28	6.7	5.1	4.4	4.7	3.2	3.4	5.0	80	60	15	8.0	7.1
29	6.2	5.1	4.5	4.8	3.2	3.6	5.2	96	60	14	7.6	6.7
30	6.2	5.1	4.5	4.8	-----	3.6	5.9	109	60	14	7.4	6.2
31	6.2	-----	4.7	4.5	-----	3.7	-----	122	-----	14	7.3	-----
TOTAL	236.6	159.9	145.1	152.9	112.7	99.5	125.4	1,405.5	3,307	862	309.7	233.4
MEAN	7.63	5.33	4.68	4.93	3.89	3.21	4.18	45.3	110	27.8	9.99	7.78
MAX	9.2	6.2	5.1	5.4	4.5	3.7	5.9	122	161	59	13	12
MIN	6.2	4.5	3.8	4.5	2.8	2.9	3.6	5.9	60	14	7.3	5.9
AC-FT	469	317	288	303	224	197	249	2,790	6,560	1,710	614	463

CAL YR 1971 TOTAL 7,784.3 MEAN 21.3 MAX 166 MIN 2.2 AC-FT 15,440
WTR YR 1972 TOTAL 7,149.7 MEAN 19.5 MAX 161 MIN 2.8 AC-FT 14,180

PEAK DISCHARGE (BASE, 120 CFS)

DATE TIME G.H.T. DISCHARGE
6- 9 1800 5.48 196

NOTE.--No gage-height record Dec. 24 to Jan. 28, Mar. 4 to Apr. 29.

GREEN RIVER BASIN

169

09209400 GREEN RIVER NEAR LA BARGE, WYO.

LOCATION.--Lat 42°11'34", long 110°09'45", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.26 N., R.112 W., Lincoln County, on right bank 1.7 miles upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft, 4 miles upstream from Muddy Creek, and 5 miles south of La Barge.

DRAINAGE AREA.--3,910 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to current year. Records are equivalent to those published August 1946 to March 1965 as Green River near Fontenelle (sta 09209500).

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (from topographic map).

AVERAGE DISCHARGE (revised).--26 years (1946-72), 1,656 cfs (1,200,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 18,000 cfs June 11 (gage height, 10.34 ft); minimum daily, 450 cfs Feb. 2.

Period of record: Maximum discharge, 18,000 cfs June 11, 1972 (gage height, 10.34 ft); minimum daily, 280 cfs Dec. 29, 1969.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	934	940	725	680	460	670	1,200	2,480	7,880	5,440	2,350	1,310
2	1,050	910	700	640	450	635	1,270	2,200	9,440	5,610	2,290	1,340
3	1,070	905	670	605	465	630	1,350	2,050	10,900	5,860	2,310	1,340
4	1,080	950	645	580	475	685	1,510	2,150	12,200	5,890	2,250	1,310
5	1,060	1,010	620	600	492	695	1,600	2,520	12,200	5,580	2,230	1,290
6	1,050	1,050	585	620	498	720	1,770	2,960	14,500	5,040	2,210	1,340
7	1,030	1,150	570	630	520	780	2,030	3,470	15,300	4,530	2,080	1,430
8	1,010	1,300	560	640	540	845	2,200	4,020	16,400	4,350	1,950	1,450
9	986	1,270	535	620	535	970	2,080	4,440	17,400	4,250	1,880	1,420
10	950	1,210	525	595	505	1,190	2,030	4,440	17,600	4,180	1,840	1,390
11	938	1,140	520	590	488	1,400	2,080	4,000	17,800	4,100	1,810	1,390
12	926	1,180	530	570	463	1,660	2,240	3,730	17,300	4,000	1,790	1,420
13	902	1,140	550	555	470	1,860	2,200	3,520	16,500	3,880	1,750	1,400
14	914	1,140	560	535	490	1,900	2,060	3,430	16,000	3,750	1,810	1,350
15	914	1,130	570	520	495	2,090	1,860	3,710	15,000	3,680	1,900	1,310
16	962	1,100	590	540	492	2,390	1,810	4,150	13,900	3,650	1,920	1,250
17	1,030	1,050	600	570	505	2,700	1,940	4,570	13,100	3,530	1,900	1,190
18	1,120	970	620	600	520	2,500	2,030	5,130	12,300	3,430	1,840	1,160
19	1,190	905	640	625	530	2,350	1,940	5,450	12,000	3,300	1,810	1,140
20	1,170	940	640	660	530	2,410	1,840	5,700	11,300	3,150	1,920	1,150
21	1,160	990	650	620	545	2,370	1,730	6,070	10,100	3,230	1,900	1,160
22	1,120	1,000	665	600	550	2,320	1,650	6,330	9,680	3,230	1,790	1,150
23	1,100	1,040	680	560	565	2,280	1,600	6,200	8,170	3,180	1,720	1,120
24	1,070	1,000	700	540	570	1,970	1,680	5,660	8,480	2,950	1,660	1,100
25	1,080	940	695	515	585	1,810	1,930	5,210	10,000	2,730	1,630	1,070
26	1,080	910	670	505	620	1,820	2,100	4,920	10,600	2,630	1,560	1,060
27	1,080	875	655	495	650	1,640	2,030	4,760	10,000	2,630	1,500	1,060
28	1,100	835	635	480	675	1,440	1,990	4,900	8,440	2,610	1,420	1,050
29	1,020	800	640	480	695	1,310	2,110	5,250	6,840	2,550	1,340	1,050
30	986	745	650	490	-----	1,280	2,410	5,960	5,820	2,430	1,320	1,030
31	960	-----	685	485	-----	1,210	-----	6,870	-----	2,310	1,310	-----
TOTAL	32,042	30,525	19,280	17,745	15,378	48,530	56,270	136,250	366,150	117,680	56,990	37,230
MEAN	1,034	1,019	622	572	530	1,565	1,876	4,395	12,210	3,796	1,838	1,241
MAX	1,190	1,300	725	680	695	2,700	2,410	6,870	17,800	5,890	2,350	1,450
MIN	902	745	520	480	450	630	1,200	2,050	5,820	2,310	1,310	1,030
AC-FT	63,560	60,550	38,240	35,200	30,500	96,260	111,600	270,300	726,300	233,400	113,000	73,850
CAL YR 1971	TOTAL 852,107 MEAN 2,335 MAX 14,300 MIN 400 AC-FT 1,690,000											
WTR YR 1972	TOTAL 934,070 MEAN 2,552 MAX 17,800 MIN 450 AC-FT 1,853,000											

NOTE.--No gage-height record Jan. 20 to Feb. 25.

GREEN RIVER BASIN

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WYO.

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼SW¼NE¼ sec.2, T.24 N., R.115 W., Lincoln County, on left bank 2 miles downstream from Dutch George Creek and 14 miles west of Fontenelle.

DRAINAGE AREA.--152 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (from topographic map). Prior to May 5, 1970, at site 300 ft downstream at present datum.

AVERAGE DISCHARGE.--21 years, 71.2 cfs (51,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 721 cfs June 7 (gage height, 9.13 ft); minimum daily, 20 cfs Feb. 3.

Period of record: Maximum discharge, 821 cfs June 13, 1965 (gage height, 6.87 ft, site then in use); maximum gage height, 7.93 ft Dec. 24, 1955 (backwater from ice), site then in use; minimum daily discharge, 10 cfs Dec. 10, 1963.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions for irrigation of about 780 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	33	30	33	22	28	48	178	577	244	82	46
2	47	34	29	32	21	29	55	185	630	236	82	46
3	47	37	30	30	20	30	60	236	662	200	79	46
4	47	40	30	28	21	31	67	309	660	204	75	48
5	46	41	31	26	22	31	86	365	632	200	73	56
6	44	38	32	26	23	31	148	396	649	185	69	81
7	40	37	30	28	25	33	163	438	700	176	66	64
8	38	39	28	30	27	35	139	440	700	166	64	52
9	36	41	27	32	29	34	138	429	683	156	63	48
10	35	42	26	31	29	33	138	357	672	148	62	45
11	35	45	25	30	28	34	175	372	644	148	60	42
12	34	45	24	27	28	33	222	370	614	130	59	42
13	33	41	24	25	31	38	149	385	589	126	58	44
14	32	39	23	24	36	40	120	414	557	120	60	44
15	32	38	24	25	40	42	118	467	538	115	62	43
16	33	37	25	28	41	47	136	501	513	112	64	42
17	34	36	26	31	39	53	161	511	504	109	57	41
18	36	35	25	33	37	63	136	497	488	103	53	41
19	38	34	25	32	35	66	122	577	456	99	55	42
20	40	36	27	34	33	68	108	591	374	100	58	43
21	40	38	28	36	37	72	112	540	376	108	52	42
22	39	37	30	36	40	73	115	490	361	100	50	44
23	37	36	32	34	42	75	126	445	383	97	48	43
24	36	34	34	32	40	71	159	431	363	92	48	42
25	36	33	36	29	39	68	188	418	418	91	49	42
26	35	32	34	27	35	68	151	436	341	90	48	45
27	34	33	32	26	31	61	178	436	307	93	47	46
28	33	33	30	25	31	55	218	453	280	88	46	48
29	32	32	29	24	27	49	284	483	270	85	46	45
30	30	31	29	23	-----	50	250	513	254	82	46	44
31	31	-----	31	22	-----	46	-----	545	-----	82	46	-----
TOTAL	1,158	1,107	886	899	909	1,487	4,270	13,208	15,195	4,085	1,827	1,397
MEAN	37.4	36.9	28.6	29.0	31.3	48.0	142	426	507	132	58.9	46.6
MAX	48	45	36	36	42	75	284	591	700	244	82	81
MIN	30	31	23	22	20	28	48	178	254	82	46	41
AC-FT	2,300	2,200	1,760	1,780	1,800	2,950	8,470	26,200	30,140	8,100	3,620	2,770
CAL YR 1971	TOTAL 43,369		MEAN 119	MAX 661	MIN 11	AC-FT 86,020						
WTR YR 1972	TOTAL 46,428		MEAN 127	MAX 700	MIN 20	AC-FT 92,090						

PEAK DISCHARGE (BASE, 150 CFS)

NOTE.--No gage-height record Oct. 6 to Nov. 12.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-12	0130	7.08	262	5-19	1800	8.93	674
4-17	0230	6.69	188	6-7	1500	9.13	721
4-29	2300	7.51	352				

GREEN RIVER BASIN

171

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WYO.

LOCATION.--Lat 42°02', long 110°04', in S½ sec.25, T.24 N., R.112 W., Lincoln County, at dam on Green River 3.0 miles north of Fontenelle and 3.5 miles upstream from Slate Creek.

DRAINAGE AREA.--4,280 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum daily contents, 358,000 acre-ft June 27 (elevation, 6,507.54 ft); minimum daily, 192,200 acre-ft May 4 (elevation, 6,484.45 ft).

Period of record: Maximum daily contents, 387,000 acre-ft June 29, 1965 (elevation, 6,511.01 ft); minimum daily, 5,680 acre-ft July 28, 1967.

REMARKS.--Reservoir is formed by earth-fill dam completed by Bureau of Reclamation in April 1964. Capacity, 344,800 acre-ft between elevations 6,506.0 ft (crest of spillway) and 6,408.0 ft (invert of outlet pipe) Dead storage (below elevation 6,408.0 ft), 563 acre-ft. Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WRD Wyo. 1971: Drainage area.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,503.69	327,100	-
Oct. 31	6,503.20	323,200	-3,900
Nov. 30	6,502.02	314,100	-9,100
Dec. 31	6,496.40	272,200	-41,900
CAL YR 1971	-	-	+64,700
Jan. 31	6,491.43	237,300	-34,900
Feb. 29	6,488.36	216,800	-20,500
Mar. 31	6,489.34	223,200	+6,400
Apr. 30	6,485.25	197,100	-26,100
May 31	6,485.35	197,700	+600
June 30	6,506.70	351,100	+153,400
July 31	6,506.44	349,000	-2,100
Aug. 31	6,505.91	344,700	-4,300
Sept. 30	6,505.68	342,900	-1,800
WTR YR 1972	-	-	+15,800

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼NW¼NE¼ sec.31, T.24 N., R.111 W., Sweetwater County, on right bank 1.0 mile downstream from Fontenelle Dam, 2.5 miles upstream from Slate Creek, and 6 miles southeast of Fontenelle.

Period of record: Maximum discharge, 19,400 cfs Sept. 5, 1965 (gage height, 18.74 ft, from floodmarks), caused by emergency release from Fontenelle Reservoir; minimum daily, 209 cfs Nov. 22-24, 1968.

REVISIONS.--WRD Wyo. 1971: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	1,080	1,290	1,120	1,170	744	1,750	3,100	5,480	6,370	2,290	1,600
2	1,110	748	1,290	1,120	1,130	744	1,740	3,100	6,700	6,200	2,140	1,500
3	1,110	411	1,290	1,120	1,070	744	1,740	3,100	6,790	5,790	1,970	1,600
4	1,110	406	1,300	1,160	1,070	744	1,730	3,090	6,790	5,500	1,970	1,600
5	1,090	760	1,300	1,140	1,070	744	1,740	3,100	7,190	5,540	2,050	1,600
6	1,090	1,120	1,290	1,140	1,070	736	1,740	3,100	8,120	5,220	2,080	1,610
7	1,100	1,130	1,290	1,140	1,090	736	1,730	3,100	9,020	4,440	2,080	1,600
8	1,090	1,110	1,290	1,140	1,130	736	1,740	3,100	9,620	4,100	2,080	1,580
9	1,090	736	1,290	1,130	1,130	784	1,740	3,310	10,000	4,130	2,000	1,580
10	1,080	396	1,280	1,130	1,130	894	1,740	3,790	10,700	4,170	1,940	1,600
11	1,080	411	1,290	1,130	1,130	930	1,770	4,240	11,000	4,010	1,910	1,610
12	1,100	776	1,290	1,130	1,130	921	2,060	4,440	11,000	860	1,870	1,250
13	1,100	1,100	1,290	1,120	1,130	1,070	2,430	4,440	12,000	3,920	1,850	1,210
14	1,100	1,100	1,290	1,100	1,130	1,240	2,710	4,440	13,900	3,940	1,800	1,050
15	1,100	1,090	1,290	1,080	1,130	1,570	2,710	4,640	14,700	3,940	1,810	858
16	1,110	1,090	1,280	1,110	1,130	1,750	2,710	5,100	14,300	3,940	1,820	858
17	1,110	1,090	1,280	1,110	1,130	1,750	2,710	5,380	13,600	3,920	1,840	858
18	1,090	1,090	1,290	1,110	1,130	1,750	2,750	5,500	13,300	3,880	1,820	858
19	1,070	1,100	1,300	1,100	1,130	1,750	2,800	5,820	12,500	3,700	1,840	858
20	1,070	1,100	1,290	1,200	1,130	1,750	3,050	5,860	11,400	3,380	1,850	858
21	1,070	1,100	1,280	1,320	1,120	1,750	3,140	5,840	10,300	3,000	1,850	895
22	1,060	1,080	1,280	1,320	1,120	1,750	3,120	5,020	9,080	3,000	1,820	1,020
23	1,070	1,080	1,280	1,320	1,120	1,770	3,120	6,330	7,860	3,020	1,810	1,080
24	1,080	1,100	1,280	1,320	1,120	1,750	3,120	6,420	7,450	3,040	1,780	1,080
25	1,070	1,290	1,280	1,310	930	1,770	3,120	6,440	7,720	2,970	1,750	1,080
26	1,080	1,280	1,280	1,310	784	1,750	3,100	6,440	8,520	2,820	1,730	895
27	1,080	1,280	1,260	1,310	792	1,750	3,100	5,420	9,120	2,700	1,660	930
28	1,090	1,290	1,170	1,310	784	1,750	3,120	6,420	9,150	2,560	1,640	1,030
29	1,100	1,290	1,130	1,320	776	1,740	3,120	6,420	8,450	2,510	1,610	1,030
30	1,100	1,290	1,120	1,340	-----	1,740	3,100	6,420	7,210	2,510	1,600	1,030
31	1,090	-----	1,120	1,340	-----	1,740	-----	6,460	-----	2,510	1,600	

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WYO.

LOCATION.--Lat 42°35', long 109°17', in sec.18, T.30 N., R.104 W., Sublette County, on left bank at Leckie Ranch, 0.5 mile downstream from Squaw Creek, and 9 miles southeast of Big Sandy.

DRAINAGE AREA.--94 sq mi, approximately.

PERIOD OF RECORD.--July to November 1910, May to August 1911, July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Published as Big Sandy Creek near Big Sandy 1910-11 and in WSP 618 and as Big Sandy Creek at Leckie Ranch, near Big Sandy July 1939 to October 1968.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (by barometer). See WSP 1733 for history of changes prior to July 24, 1939. July 24, 1939, to June 1, 1961, water-stage recorder, at site 75 ft downstream at present datum.

AVERAGE DISCHARGE.--32 years (1939-71), 86.0 cfs (62,310 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,360 cfs June 8 (gage height, 8.76 ft); minimum daily during period of operation, 17 cfs Mar. 27.

Period of record: Maximum discharge, 1,580 cfs June 10, 1965 (gage height, 9.06 ft), from rating curve extended above 800 cfs; minimum daily, 3.0 cfs Dec. 17, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 750 acres above station.

REVISIONS (WATER YEARS).--WRD Wyo. 1971: 1963, 1964(P), 1965.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37					23	22	64	973	403	93	38
2	36					23	21	62	945	373	91	46
3	36					24	20	68	893	321	105	44
4	39					24	22	84	973	279	92	40
5	43					26	23	100	981	269	91	50
6	48					27	25	110	1,090	265	83	115
7	51					27	28	128	1,100	261	78	95
8	49					26	30	132	1,180	261	74	76
9	44					24	31	130	1,040	241	71	66
10	41					22	32	125	1,010	227	67	59
11	38					23	31	118	965	220	66	56
12	35					24	31	105	981	214	63	52
13	33					25	30	110	865	211	61	46
14	31					24	29	138	749	204	60	42
15	32					24	32	190	700	195	63	40
16	32					23	35	250	618	176	64	38
17	38					24	37	350	609	166	59	35
18	43					24	33	382	600	160	56	33
19	42					23	31	440	516	151	65	45
20	40					22	33	516	430	149	63	52
21	41					21	31	501	423	175	56	46
22	37					22	32	445	440	155	51	42
23	36					23	31	378	468	131	50	42
24	37					22	37	375	534	120	53	42
25	48					20	43	378	585	114	51	38
26	41					19	44	380	459	108	48	36
27	38					17	43	428	368	101	44	36
28	35					18	50	555	335	97	42	36
29	30					20	62	662	383	90	38	34
30	26				-----	22	70	696	390	87	38	32
31	24	-----			-----	23	-----	865	-----	88	38	-----
TOTAL	1,181					709	1,019	9,265	21,603	6,012	1,974	1,452
MEAN	38.1					22.9	34.0	299	720	194	63.7	48.4
MAX	51					27	70	865	1,180	403	105	115
MIN	24					17	20	62	335	87	38	32
AC-FT	2,340					1,410	2,020	18,380	42,850	11,920	3,920	2,880

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--No gage-height record Mar. 1 to May 17.

DATE	TIME	G.HT.	DISCHARGE
5-20	2100	6.69	555
6- 8	0730	8.76	1,360
6-25	0730	6.91	627

GREEN RIVER BASIN

09213500 BIG SANDY RIVER NEAR FARSON, WYO.

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼SE¼NW¼ sec.17, T.27 N., R.106 W., Sublette County, on left upstream side of Eden Canal diversion, about 1 mile upstream from high-water line of Big Sandy Reservoir, 14.5 miles north of Farson, and 24.5 miles upstream from Little Sandy Creek.

DRAINAGE AREA.--322 sq mi.

PERIOD OF RECORD.--October 1914 to September 1917, October 1920 to October 1924, October 1926 to September 1934, April 1953 to current year (no winter records since 1971). Prior to October 1968, published as Big Sandy Creek near Farson. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (from topographic map). Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mile upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 miles upstream at different datum.

AVERAGE DISCHARGE.--33 years (1914-17, 1920-24, 1926-34, 1953-71), 86.5 cfs (62,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,480 cfs June 9 (gage height, 8.10 ft); minimum daily during period of operation, 23 cfs Oct. 31.

Period of record: Maximum discharge, 1,480 cfs June 9, 1972 (gage height, 8.10 ft); no flow Jan. 27-31, 1963, may have also reached no flow in previous years during periods of ice effect.

REMARKS.--Records good. Diversions for irrigation of about 1,000 acres above station. The Eden Canal, which would bypass the station, has not been used since station was established at present site in November 1954. Results of discharge measurements, in cubic feet per second, made during the winter when station was not in operation are given below:

Nov. 16 . . 21.6	Jan. 19 . . 10.2
Dec. 22 . . 20.5	Feb. 23 . . 16.9

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1733: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34						75	95	888	402	79	34
2	36						81	81	1,030	412	84	35
3	40						107	78	1,040	384	107	35
4	38						113	87	990	332	88	38
5	37						115	101	1,030	286	83	40
6	39						135	121	1,060	272	77	43
7	43						124	143	1,160	260	73	76
8	47						100	172	1,200	250	68	93
9	48						85	165	1,290	247	62	83
10	47						79	169	1,160	230	58	72
11	43						81	192	1,110	214	54	61
12	41						83	157	1,060	206	51	55
13	39						72	140	1,070	199	52	52
14	37						63	141	918	194	51	48
15	35						58	157	792	189	50	46
16	33						59	217	725	181	52	41
17	35						71	274	642	166	51	39
18	39						79	353	626	156	50	38
19	46						71	400	610	148	48	38
20	45						65	465	525	139	48	38
21	44						56	528	459	137	54	48
22	43						57	513	450	157	50	48
23	42						53	465	465	149	46	44
24	40						53	410	507	126	44	41
25	45						60	415	558	115	45	42
26	47						77	410	586	104	44	43
27	49						81	413	465	100	42	42
28	32						72	462	392	95	40	40
29	26						74	574	364	88	38	38
30	24						90	670	400	81	36	38
31	23	-----			-----		-----	730	-----	80	34	-----
TOTAL	1,217						2,389	9,298	23,572	6,099	1,759	1,429
MEAN	39.3						79.6	300	786	197	56.7	47.6
MAX	49						135	730	1,290	412	107	93
MIN	23						53	78	364	80	34	34
AC-FT	2,410						4,740	18,440	46,760	12,100	3,490	2,830

PEAK DISCHARGE (BASE, 350 CFS)

DATE TIME G.H.T. DISCHARGE

6- 9 1130 8.10 1,480

GREEN RIVER BASIN

175

09214500 LITTLE SANDY CREEK ABOVE EDEN, WYO.

LOCATION.--Lat 42°14'12", long 109°18'44", in SE¼SW¼SW¼ sec.11, T.26 N., R.105 W., Sweetwater County, on right bank 1.6 miles upstream from diversion to Eden No. 2 Reservoir, 11 miles northeast of Farson, and 14 miles northeast of Eden.

DRAINAGE AREA.--170 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--18 years, 17.5 cfs (12,680 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 202 cfs June 9 (gage height, 7.83 ft); maximum gage height, 8.48 ft Mar. 20 (backwater from ice); minimum daily discharge, 2.1 cfs Feb. 3.
Period of record: Maximum discharge, 386 cfs June 17, 1963 (gage height, 8.57 ft); maximum gage height, 9.42 ft Apr. 5, 1969 (backwater from ice); no flow at times in most years.

REMARKS.--Records poor. Diversions above station for irrigation of about 1,220 acres, of which about 150 acres lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	5.3	5.3	5.4	2.4	4.1	31	31	70	71	27	15
2	9.9	5.6	5.1	5.0	2.2	4.3	31	25	98	86	26	15
3	10	6.2	4.8	4.8	2.1	4.1	35	24	128	94	27	15
4	8.8	6.6	4.9	4.4	2.2	4.0	39	25	153	81	28	16
5	8.4	7.0	5.0	4.0	2.4	4.3	43	27	158	67	24	17
6	7.2	6.8	5.1	4.2	2.6	5.0	59	29	162	55	22	17
7	7.7	6.6	5.2	4.4	2.8	5.9	76	34	169	54	19	16
8	8.1	7.0	5.1	4.2	3.0	6.5	59	50	185	54	18	16
9	8.1	7.6	4.8	3.9	3.1	7.2	51	46	198	52	18	16
10	7.9	7.6	4.7	3.7	3.0	8.0	47	39	198	51	17	16
11	7.8	8.0	4.5	3.6	2.9	9.0	46	42	185	49	17	16
12	7.6	8.0	4.4	3.6	3.0	11	49	39	174	47	17	16
13	7.7	7.4	4.3	3.4	3.2	15	46	32	165	44	16	15
14	8.4	7.0	4.2	3.2	3.2	19	41	30	166	44	16	15
15	8.4	6.6	4.2	3.4	3.1	26	36	30	155	45	16	15
16	8.6	6.0	4.3	3.6	3.2	37	34	34	142	46	16	15
17	8.6	5.4	4.4	3.8	3.3	45	38	39	127	44	16	13
18	8.8	5.4	4.5	4.0	3.4	54	40	42	116	38	15	12
19	9.6	5.8	4.6	4.2	3.5	63	34	44	114	37	15	11
20	11	6.4	4.7	4.3	3.7	72	29	45	112	34	15	10
21	10	6.4	4.9	4.3	3.9	83	26	48	96	34	15	10
22	8.7	6.2	5.0	4.2	4.0	90	24	42	84	34	15	9.5
23	7.5	5.9	5.2	3.9	4.1	88	24	40	84	36	15	9.0
24	7.7	6.2	5.6	3.6	4.0	83	24	40	93	32	15	8.4
25	7.5	6.2	6.0	3.3	3.9	80	26	38	104	30	15	8.4
26	7.7	6.2	6.4	3.2	3.7	72	34	39	114	28	15	8.1
27	7.7	6.0	6.0	3.1	3.8	66	32	40	95	34	15	7.5
28	7.0	5.9	5.5	2.9	4.1	56	28	42	74	28	16	7.1
29	6.0	5.7	5.1	2.8	4.3	50	27	45	62	28	16	7.1
30	5.3	5.5	5.2	2.7	-----	44	32	48	59	28	15	6.9
31	5.0	-----	5.3	2.6	-----	35	-----	48	-----	28	15	-----
TOTAL	251.7	192.5	154.3	117.7	94.1	1,151.4	1,141	1,177	3,840	1,433	552	379.0
MEAN	8.12	6.42	4.98	3.80	3.24	37.1	38.0	38.0	128	46.2	17.8	12.6
MAX	11	8.0	6.4	5.4	4.3	90	76	50	198	94	28	17
MIN	5.0	5.3	4.2	2.6	2.1	4.0	24	24	59	28	15	6.9
AC-FT	499	382	306	233	187	2,280	2,260	2,330	7,620	2,840	1,090	752
CAL YR 1971	TOTAL	9,586.1	MEAN	26.3	MAX	200	MIN	3.0	AC-FT	19,010		
WTR YR 1972	TOTAL	10,483.7	MEAN	28.6	MAX	198	MIN	2.1	AC-FT	20,790		

NOTE.--No gage-height record Nov. 25 to Feb. 22.

GREEN RIVER BASIN

09215000 PACIFIC CREEK NEAR FARSON, WYO.

LOCATION.--Lat 42°07'47", long 109°19'23", in NW¼SW¼NE¼ sec.22, T.25 N., R.105 W., Sweetwater County, on right bank 200 ft upstream from Eden Canal siphon, 6.3 miles east of Farson, and 7.2 miles upstream from mouth.

DRAINAGE AREA.--500 sq mi, approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,660 ft (from topographic map). Prior to Oct. 30, 1963, at site 1 mile upstream at different datum.

AVERAGE DISCHARGE.--18 years, 4.72 cfs (3,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 258 cfs Mar. 17 (gage height, 5.00 ft); maximum gage height, 5.10 ft Mar. 18 (backwater from ice); no flow for many days.

Period of record: Maximum discharge, 972 cfs Mar. 27, 1971 (gage height, 7.34 ft); no flow for many days each year.

REMARKS.--Records poor. Some regulation by Pacific No. 2 Reservoir (capacity, 1,400 acre-ft). Diversions for irrigation of about 50 acres above station. Water is imported into basin from Sweetwater River in Platte River basin.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.70			0	57	6.3	1.7	.82	.60	.29
2		0	.60			0	57	5.6	1.9	.70	.60	.37
3		0	.55			0	63	4.8	2.0	.65	.41	.45
4		0	.50			0	70	4.4	2.0	.65	.37	.45
5		0	.40			.01	78	4.4	1.9	.65	.33	.45
6		0	.30			.04	83	5.6	4.5	.60	.22	1.1
7		0	.20			.20	78	7.0	2.4	.50	.16	2.1
8		0	.10			.50	47	8.5	2.6	.41	.08	1.0
9		0	.05			1.0	29	7.9	2.4	.37	.06	.65
10		1.4	.01			3.0	25	8.5	2.1	.33	.04	.55
11		1.9	0			5.0	22	11	2.6	.29	.06	.50
12		.60	0			7.0	20	13	1.3	.25	.04	.41
13		.50	0			8.0	26	7.6	.95	.22	.04	.41
14		.70	0			10	18	5.6	.76	.16	.10	.45
15		.76	0			15	13	4.2	.65	.16	.24	.41
16		.70	0			20	16	3.2	.70	.16	.33	.41
17		.60	0			90	17	3.0	.65	.16	.22	.37
18		.55	0			180	19	2.9	.65	.19	.19	.41
19		.52	0			100	14	2.9	.82	.19	.22	.50
20		.55	0			90	9.8	2.9	.70	.41	.37	.55
21		.65	0			80	7.9	3.4	.55	.60	.41	.55
22		.75	0			80	8.2	3.4	.72	.60	.29	.50
23		.80	0			90	9.5	2.9	4.7	.55	.25	.50
24		.87	0			90	8.8	2.6	21	.45	.29	.50
25		.90	0			80	9.2	2.3	12	.41	.78	.50
26		.90	0			80	9.8	2.0	3.8	.45	.55	.55
27		.87	0			80	8.8	2.0	5.0	.50	.41	.55
28		.93	0			75	7.3	2.0	3.0	.60	.29	.55
29		.79	0			65	6.0	1.9	1.3	.55	.29	.55
30		.75	0			63	6.8	1.7	.88	.41	.29	.50
31		-----	0		-----	60	-----	1.7	-----	.41	.29	-----
TOTAL	0	16.89	3.41	0	0	1,372.75	844.1	145.2	86.23	13.40	8.82	17.08
MEAN	0	.56	.11	0	0	44.3	28.1	4.68	2.87	.43	.28	.57
MAX	0	1.9	.70	0	0	180	83	13	21	.82	.78	2.1
MIN	0	0	0	0	0	0	6.0	1.7	.55	.16	.04	.29
AC-FT	0	34	6.8	0	0	2,720	1,670	288	171	27	17	34

CAL YR 1971 TOTAL 2,183.28 MEAN 5.98 MAX 450 MIN 0 AC-FT 4,330
WTR YR 1972 TOTAL 2,507.88 MEAN 6.85 MAX 180 MIN 0 AC-FT 4,970

PEAK DISCHARGE (BASE, 120 CFS)

DATE TIME G.H.T. DISCHARGE
3-17 2000 5.00 258

GREEN RIVER BASIN

177

09216000 BIG SANDY RIVER BELOW EDEN, WYO.

LOCATION.--Lat 42°00'37", long 109°34'57", in NE¼SE¼SW¼ sec.31, T.24 N., R.107 W., Sweetwater County, on right bank 0.1 mile downstream from Simpson Gulch, 8.0 miles southwest of Eden, and 12.5 miles downstream from Little Sandy Creek.

DRAINAGE AREA.--1,610 sq mi, approximately.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1968, published as Big Sandy Creek below Eden.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (from topographic map).

AVERAGE DISCHARGE.--18 years, 43.3 cfs (31,370 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 782 cfs June 10 (gage height, 5.02 ft); minimum daily, 17 cfs Feb. 4.

Period of record: Maximum discharge, 1,440 cfs Mar. 28, 1971 (gage height, 6.47 ft, from floodmarks); maximum gage height, 7.22 ft Mar. 20, 1956 (backwater from ice); minimum daily discharge, 0.1 cfs Feb. 24, Feb. 26 to Mar. 1, 1960.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	29	34	23	20	32	69	28	328	265	77	61
2	47	31	33	24	19	30	67	29	350	249	78	59
3	43	33	32	23	18	31	59	28	423	231	80	58
4	41	35	34	24	17	32	73	27	502	211	84	57
5	39	38	34	26	18	35	76	26	520	185	79	59
6	38	36	33	28	19	38	88	27	556	158	75	69
7	38	36	32	29	21	37	156	29	580	127	74	64
8	38	38	30	30	22	39	147	31	640	111	64	60
9	37	39	28	29	22	39	97	38	696	98	66	57
10	37	37	27	28	21	41	73	36	754	98	68	54
11	36	38	26	28	20	44	65	40	754	98	71	53
12	36	38	25	27	19	46	57	39	730	90	71	51
13	36	39	24	26	20	49	61	38	689	84	70	49
14	37	39	24	25	22	52	62	31	678	80	73	51
15	37	42	25	24	25	55	51	28	619	79	78	49
16	37	42	27	23	28	65	43	26	556	75	79	50
17	37	41	29	25	31	80	45	26	490	78	75	46
18	37	40	31	28	32	100	53	31	433	78	74	44
19	36	38	33	30	32	130	53	35	385	77	79	46
20	37	37	35	32	31	160	41	30	348	78	83	46
21	37	38	37	35	30	200	37	29	305	82	83	45
22	36	39	38	35	30	220	34	32	257	84	80	45
23	36	38	38	34	29	190	32	30	237	79	80	44
24	36	38	37	32	28	170	33	37	223	79	83	43
25	41	37	35	30	27	150	32	36	253	79	79	43
26	42	37	33	28	28	130	32	100	295	79	71	43
27	42	36	30	26	30	120	34	183	335	80	68	43
28	40	36	27	25	32	110	34	263	362	84	68	42
29	37	36	25	24	33	95	31	320	328	80	65	41
30	33	35	24	22	-----	77	29	362	288	74	61	41
31	30	-----	22	21	-----	70	-----	350	-----	78	61	-----
TOTAL	1,180	1,116	942	844	724	2,667	1,764	2,365	13,914	3,428	2,297	1,513
MEAN	38.1	37.2	30.4	27.2	25.0	86.0	58.8	76.3	464	111	74.1	50.4
MAX	47	42	38	35	33	220	156	362	754	265	84	69
MIN	30	29	22	21	17	30	29	26	223	74	61	41
AC-FT	2,340	2,210	1,870	1,670	1,440	5,290	3,500	4,690	27,600	6,800	4,560	3,000
CAL YR 1971	TOTAL 17,007.2 MEAN 46.6 MAX 630 MIN 8.0 AC-FT 33,730											
WTR YR 1972	TOTAL 32,754.0 MEAN 89.5 MAX 754 MIN 17 AC-FT 64,970											

NOTE.--No gage-height record Dec. 23 to Mar. 28.

GREEN RIVER BASIN

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WYO.

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼SW¼NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, on left bank 0.2 mile upstream from Gasson Bridge and 14.5 miles southwest of Eden.

DRAINAGE AREA.--1,720 sq mi, approximately.

PERIOD OF RECORD.--May to September 1972.

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

EXTREMES.--Current year: Maximum discharge, 736 cfs June 11 (gage height, 7.16 ft); minimum daily during period of operation, 37 cfs May 17.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								44	318	303	96	87
2								45	330	282	96	95
3								45	387	260	98	81
4								45	460	243	102	80
5								46	498	217	102	81
6								56	544	192	94	92
7								46	550	162	92	92
8								50	592	141	85	87
9								54	645	130	81	81
10								56	690	121	85	76
11								56	722	121	89	74
12								56	715	113	90	73
13								57	690	109	89	73
14								50	676	104	92	73
15								42	634	102	96	74
16								38	582	96	98	73
17								37	526	96	98	73
18								39	464	98	94	68
19								45	423	94	98	70
20								44	384	96	104	70
21								39	345	100	104	66
22								42	303	100	102	66
23								42	271	98	102	65
24								44	257	96	105	65
25								48	268	98	102	65
26								70	312	98	96	65
27								148	345	98	92	65
28								220	381	102	90	63
29								280	363	100	89	63
30					-----			339	327	92	85	62
31		-----			-----		-----	342	-----	94	83	-----
TOTAL								2,565	14,002	4,156	2,929	2,208
MEAN								82.7	467	134	94.5	73.6
MAX								342	722	303	105	92
MIN								37	257	92	81	62
AC-FT								5,090	27,770	8,240	5,810	4,380

GREEN RIVER BASIN

179

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼ 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.--21 years, 1,709 cfs (1,238,000 acre-ft per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 15,400 cfs June 16 (gage height, 7.98 ft); minimum daily, 470 cfs Nov. 12.

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 and period of no gage-height record, 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,340	1,100	1,300	1,290	1,450	1,120	1,950	3,170	6,510	7,120	2,610	1,680
2	1,250	1,100	1,300	1,300	1,400	1,120	1,960	3,170	7,010	6,670	2,400	1,680
3	1,200	950	1,220	1,300	1,360	1,110	1,940	3,150	7,450	6,510	2,280	1,680
4	1,190	750	1,320	1,250	1,310	1,110	1,940	3,150	7,530	5,940	2,080	1,660
5	1,180	585	1,400	1,300	1,300	1,120	1,980	3,190	7,710	5,890	2,100	1,700
6	1,160	900	1,400	1,300	1,310	1,150	1,940	3,200	8,300	5,860	2,160	1,730
7	1,180	1,100	1,450	1,310	1,340	1,200	1,950	3,220	8,860	5,280	2,170	1,700
8	1,180	1,250	1,400	1,350	1,350	1,350	1,980	3,220	9,360	4,440	2,160	1,660
9	1,180	1,300	1,370	1,340	1,350	1,500	2,020	3,220	10,100	4,370	2,120	1,650
10	1,160	1,250	1,400	1,300	1,360	1,650	2,010	3,490	11,400	4,370	1,920	1,640
11	1,160	650	1,400	1,300	1,380	1,650	1,980	3,880	11,800	4,400	1,980	1,640
12	1,160	470	1,370	1,300	1,370	1,550	2,060	4,230	11,800	4,100	1,990	1,650
13	1,170	900	1,400	1,300	1,370	1,420	2,430	4,350	12,900	4,020	1,980	1,270
14	1,180	1,140	1,450	1,300	1,370	1,380	2,780	4,370	13,800	3,980	1,980	1,220
15	1,180	1,120	1,450	1,300	1,360	1,590	2,860	4,370	14,800	3,980	1,920	1,080
16	1,190	1,120	1,450	1,310	1,350	1,990	2,860	4,680	15,400	3,940	1,920	864
17	1,220	1,110	1,450	1,350	1,340	2,200	2,860	5,210	15,000	3,900	1,950	851
18	1,220	1,100	1,460	1,360	1,350	2,170	2,880	5,240	14,500	3,860	1,950	854
19	1,190	1,050	1,470	1,400	1,370	2,140	2,910	5,400	14,100	3,800	1,960	870
20	1,170	1,000	1,480	1,420	1,400	2,180	3,010	5,710	13,200	3,600	1,990	864
21	1,170	1,050	1,490	1,500	1,410	2,180	3,130	5,760	11,900	3,200	1,990	856
22	1,170	1,110	1,500	1,500	1,400	2,160	3,150	5,730	10,600	3,080	1,960	881
23	1,170	1,110	1,500	1,510	1,390	2,160	3,150	6,020	9,160	3,120	1,950	1,020
24	1,170	1,100	1,470	1,550	1,380	2,140	3,130	6,310	7,970	3,120	1,920	1,070
25	1,230	1,200	1,490	1,550	1,350	2,120	3,130	6,330	8,090	3,120	1,880	1,080
26	1,180	1,340	1,510	1,500	1,280	2,080	3,150	6,330	8,550	2,990	1,840	1,080
27	1,200	1,340	1,490	1,500	1,220	2,050	3,170	6,380	9,260	2,930	1,780	918
28	1,150	1,330	1,480	1,500	1,180	2,040	3,170	6,410	9,770	2,780	1,740	916
29	920	1,320	1,450	1,450	1,130	2,010	3,170	6,460	9,570	2,690	1,710	1,050
30	920	1,300	1,370	1,450	---	1,990	3,170	6,510	8,490	2,660	1,680	1,050
31	1,010	---	1,300	1,450	---	1,960	---	6,510	---	2,660	1,660	---
TOTAL	36,150	32,045	43,990	42,840	38,930	53,580	77,820	148,370	314,890	128,380	61,730	37,864
MEAN	1,166	1,068	1,419	1,382	1,342	1,728	2,594	4,786	10,500	4,141	1,991	1,262
MAX	1,340	1,340	1,510	1,550	1,450	2,200	3,170	6,510	15,400	7,120	2,610	1,730
MIN	920	470	1,220	1,250	1,130	1,110	1,940	3,150	6,510	2,660	1,660	851
AC-FT	71,700	63,560	87,250	84,970	77,220	106,300	154,400	294,300	624,600	254,600	122,400	75,100
CAL YR 1971 TOTAL	881,200											
WTR YR 1972 TOTAL	1,016,589											
MEAN	2,414											
MAX	11,200											
MIN	470											
AC-FT	1,748,000											
WTR	2,016,000											

NOTE.--No gage-height record Dec. 7 to Jan. 23.

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, Utah, 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.--7 years (1937-38, 1966-72), 170 cfs (123,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,070 cfs June 4 (gage height, 4.25 ft); minimum daily, 23 cfs Feb. 2.

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 and period of no gage-height record, which are fair. No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	51	45	39	24	26	27	75	1,460	376	92	53
2	61	53	45	33	23	26	27	75	1,500	358	95	51
3	63	54	45	31	24	26	28	92	1,370	326	86	53
4	66	56	45	30	24	26	29	132	1,690	295	84	55
5	70	59	45	31	24	26	29	171	1,550	278	86	66
6	71	58	45	32	24	27	30	177	1,410	258	77	92
7	70	57	45	33	24	28	32	177	1,530	250	72	61
8	63	55	45	33	24	28	33	199	1,550	240	68	58
9	57	54	45	33	24	28	37	215	1,390	229	66	56
10	56	50	45	32	24	28	39	186	1,260	222	64	55
11	53	50	44	31	24	28	42	177	1,260	222	66	52
12	51	51	43	30	24	28	40	177	1,150	212	66	52
13	49	51	42	29	24	28	37	193	1,070	202	64	51
14	49	55	41	29	24	28	39	258	990	196	64	51
15	47	54	40	30	24	30	38	362	910	193	64	46
16	51	52	40	31	24	31	45	498	878	177	63	44
17	52	50	40	32	24	31	43	606	870	168	61	43
18	54	47	40	33	24	30	42	660	856	155	61	43
19	67	48	40	34	24	27	42	688	751	146	66	48
20	61	50	40	33	24	25	43	600	660	164	61	48
21	56	52	40	33	24	28	43	522	642	158	58	43
22	53	51	40	32	25	31	37	540	636	138	58	43
23	53	50	40	31	26	30	44	540	624	130	56	43
24	53	48	40	30	26	30	44	636	546	122	53	42
25	58	47	40	29	26	30	50	751	492	119	53	40
26	52	47	40	28	26	30	51	886	435	122	59	42
27	55	47	40	27	26	30	58	982	405	122	58	41
28	47	47	40	27	26	29	55	1,130	400	104	56	49
29	49	46	40	26	26	28	65	1,250	400	99	55	48
30	50	46	40	26	-----	27	69	1,320	385	95	51	42
31	50	-----	40	25	-----	27	-----	1,420	-----	95	49	-----
TOTAL	1,744	1,536	1,300	953	710	875	1,238	15,695	29,070	5,971	2,032	1,511
MEAN	56.3	51.2	41.9	30.7	24.5	28.2	41.3	506	969	193	65.5	50.4
MAX	71	59	45	39	26	31	69	1,420	1,690	376	95	92
MIN	47	46	40	25	23	25	27	75	385	95	49	40
AC-FT	3,460	3,050	2,580	1,890	1,410	1,740	2,460	31,130	57,660	11,840	4,030	3,000

CAL YR 1971 TOTAL 73,711 MEAN 202 MAX 1,760 MIN 24 AC-FT 146,200
WTR YR 1972 TOTAL 62,635 MEAN 171 MAX 1,690 MIN 23 AC-FT 124,200

PEAK DISCHARGE (BASE, 1,000 CFS)

NOTE.--No gage-height record Dec. 11 to Mar. 5.

DATE TIME G.H.T. DISCHARGE

6- 4 2300 4.25 2,070

GREEN RIVER BASIN

181

09218500 BLACKS FORK NEAR MILLBURNE, WYO.

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, on left bank 0.4 mile downstream from Meeks Cabin Dam, 2.7 miles north of Utah-Wyoming State line, and 17 miles southwest of Millburne. Prior to Oct. 1, 1971, at site 2.0 miles downstream.

DRAINAGE AREA.--152 sq mi. Area at site used prior to Oct. 1, 1971, 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. Datum of gage is 8,512.27 ft above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2 miles downstream at various datums.

AVERAGE DISCHARGE.--33 years, 160 cfs (115,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,370 cfs June 7 (gage height, 4.49 ft); minimum daily, 8.2 cfs Oct. 7.

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, site and datum then in use; minimum daily discharge, 3.7 cfs Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

REMARKS.--Records good. Flow completely regulated by Meeks Cabin Reservoir (capacity, 39,600 acre-ft) since June 1971. No diversion above station.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	37	35	35	35	34	33	34	831	340	279	182
2	56	37	35	35	34	33	33	34	930	340	251	182
3	56	37	34	35	34	33	33	33	984	340	255	182
4	56	37	34	35	34	34	33	33	995	340	248	182
5	56	71	34	35	34	33	33	33	1,110	340	248	142
6	26	38	34	35	34	32	33	34	1,250	345	251	115
7	8.2	38	34	35	34	33	33	34	1,270	304	251	115
8	48	37	34	35	34	34	33	35	1,250	275	233	115
9	165	36	34	35	34	34	34	36	1,220	275	219	115
10	165	33	34	35	34	33	34	36	1,180	263	219	115
11	168	33	34	35	34	34	34	36	1,210	275	219	115
12	174	33	34	35	34	34	34	36	1,070	300	219	96
13	171	33	34	36	34	33	34	36	840	300	219	84
14	171	34	34	36	34	34	34	37	678	304	219	84
15	208	34	34	35	34	34	34	68	660	300	219	84
16	234	34	34	35	34	34	34	251	669	304	216	84
17	234	34	34	35	34	33	35	486	777	300	216	84
18	234	34	34	35	34	33	35	588	850	308	213	84
19	213	34	34	34	34	34	35	588	831	322	213	65
20	130	34	34	34	34	34	35	588	795	322	213	54
21	34	35	34	34	34	33	35	588	644	318	216	54
22	34	34	34	34	34	33	34	524	552	318	180	54
23	34	35	34	34	34	33	33	480	596	318	160	54
24	35	35	34	35	34	34	33	486	580	295	160	54
25	35	35	34	35	34	33	33	492	573	275	158	54
26	89	35	34	35	33	35	34	620	504	291	158	238
27	99	35	35	35	33	34	34	732	450	304	155	197
28	37	35	35	35	32	34	33	860	450	304	155	89
29	37	35	35	35	33	33	33	1,050	450	304	171	89
30	37	35	35	35	-----	33	34	1,030	385	304	182	88
31	37	-----	35	34	-----	33	-----	860	-----	304	182	-----
TOTAL	3,137.2	1,087	1,061	1,081	982	1,038	1,012	10,778	24,584	9,532	6,497	3,250
MEAN	101	36.2	34.2	34.9	33.9	33.5	33.7	348	819	307	210	108
MAX	234	71	35	36	35	35	35	1,050	1,270	345	279	238
MIN	8.2	33	34	34	32	32	33	33	385	263	155	54
AC-FT	6,220	2,160	2,100	2,140	1,950	2,060	2,010	21,380	48,760	18,910	12,890	6,450
CAL YR 1971	TOTAL 80,495.2		MEAN 221		MAX 1,110		MIN 8.2		AC-FT 159,700			
WTR YR 1972	TOTAL 64,039.2		MEAN 175		MAX 1,270		MIN 8.2		AC-FT 127,000			

GREEN RIVER BASIN

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼ 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 (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

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

AVERAGE DISCHARGE.--32 years (1939-71), 47.1 cfs (34,120 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 654 cfs June 1 (gage height, 5.92 ft); minimum daily during period of operation, 10 cfs Oct. 31.
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. No diversion above station.

REVISIONS.--WSP 979: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18							28	522	90	29	18
2	20							26	534	88	29	18
3	18							34	455	82	28	18
4	22							44	534	76	27	18
5	24							52	470	71	26	18
6	24							51	400	66	24	26
7	24							50	470	63	23	20
8	22							58	450	61	21	19
9	20							65	430	61	20	18
10	18							58	340	63	20	16
11	18							52	340	64	20	16
12	17							49	316	60	20	15
13	16							50	273	58	19	14
14	15							61	242	57	20	14
15	14							85	224	57	20	14
16	15							122	221	57	18	13
17	15							155	245	54	18	12
18	16							170	221	50	18	12
19	16							180	203	49	20	12
20	17							165	172	51	20	14
21	18							144	162	53	18	13
22	15							149	160	44	18	12
23	16							146	155	40	17	12
24	18							165	135	39	16	12
25	19							212	126	38	16	11
26	19							270	110	39	20	11
27	17							280	99	43	20	11
28	13							332	95	37	18	13
29	12							410	95	33	18	14
30	12				-----			460	90	31	16	13
31	10	-----			-----		-----	465	-----	31	15	-----
TOTAL	537							4,588	8,289	1,706	632	447
MEAN	17.3							148	276	55.0	20.4	14.9
MAX	24							465	534	90	29	26
MIN	10							26	90	31	15	11
AC-FT	1,070							9,100	16,440	3,380	1,250	887

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 1	0600	5.92	654

GREEN RIVER BASIN

183

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NW¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Wasatch National Forest, on left bank 0.8 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 (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft 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 (1939-71), 21.5 cfs (15,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 618 cfs June 5 (gage height, 3.57 ft); minimum daily during period of operation, 1.9 cfs Sept. 16, 18.
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 poor. No diversion above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0							21	264	16	3.5	8.7
2	7.0							25	237	16	3.0	7.6
3	7.0							34	222	14	3.0	7.9
4	8.4							48	371	13	3.4	6.7
5	8.7							57	336	13	3.6	7.0
6	7.9							55	175	12	3.0	8.0
7	6.5							59	152	11	3.2	6.0
8	5.5							74	135	10	3.6	5.0
9	5.2							70	126	10	3.4	4.0
10	4.6							52	112	9.8	3.4	3.0
11	4.1							44	103	10	4.1	3.0
12	3.9							46	90	9.5	4.6	2.5
13	3.7							57	80	9.0	4.4	2.0
14	3.7							90	67	8.5	4.8	2.0
15	3.7							148	63	8.0	5.0	2.0
16	4.2							240	63	8.0	4.8	1.9
17	5.0							289	63	7.5	4.4	2.0
18	5.5							254	54	7.5	4.8	1.9
19	4.8							272	46	7.5	6.7	2.2
20	5.5							261	39	7.5	6.5	2.4
21	5.5							198	35	8.0	5.2	2.4
22	4.8							160	35	6.5	5.7	2.6
23	5.0							142	32	6.0	5.0	2.6
24	5.5							180	29	5.5	4.6	2.8
25	5.5							240	28	5.5	7.0	3.0
26	6.0							240	26	5.5	8.4	3.0
27	6.5							222	23	6.0	7.9	3.0
28	6.5							250	21	5.0	6.5	3.2
29	6.0							268	19	4.5	6.7	3.4
30	6.0							289	18	4.5	5.7	3.4
31	5.0	-----			-----		-----	272	-----	3.5	5.0	-----
TOTAL	174.2							4,657	3,064	268.3	150.9	115.2
MEAN	5.62							150	102	8.65	4.87	3.84
MAX	8.7							289	371	16	8.4	8.7
MIN	3.7							21	18	3.5	3.0	1.9
AC-FT	346							9,240	6,080	532	299	229

PEAK DISCHARGE (BASE, 280 CFS)

DATE TIME G.H.T. DISCHARGE

6- 5 0300 3.57 618

LOCATION.--Lat 41°27'08", long 110°10'20", in SW1/4SW1/4 sec.15, T.17 N., R.113 W., Uinta County, on left bank 200 ft downstream from bridge on old U.S. Highway 30S, 8.5 miles downstream from Smiths Fork, and 11 miles northeast of Lyman.

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

AVERAGE DISCHARGE.--30 years, 148 cfs (107,200 acre-ft per year).

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir (capacity, 39,600 acre-ft) since June 1971, several smaller reservoirs, and diversions for irrigation of about 62,200 acres above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1733: 1947, 1948(M), 1951(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	73	73	67	59	150	178	222	874	93	38	36
2	67	81	69	68	57	188	168	200	879	66	44	36
3	83	88	67	67	58	230	182	198	1,090	52	41	38
4	74	96	69	63	60	275	162	215	1,510	46	47	37
5	62	100	71	61	63	330	162	264	1,640	47	55	40
6	55	100	72	63	67	384	198	300	1,970	48	52	58
7	48	96	70	64	69	460	228	291	1,660	45	49	52
8	46	93	65	66	70	565	158	306	1,480	46	49	40
9	42	91	60	66	68	700	125	340	1,550	47	50	37
10	46	89	59	65	66	885	122	437	1,600	54	48	36
11	78	91	60	64	68	700	152	359	1,210	54	45	36
12	80	95	60	62	70	535	208	277	1,020	55	39	34
13	90	100	62	59	74	415	273	247	808	56	38	32
14	81	108	64	56	78	390	276	248	585	59	43	29
15	83	110	66	53	77	373	499	271	447	50	41	25
16	82	105	66	52	78	339	700	314	414	50	42	24
17	78	96	66	53	81	348	895	466	427	50	44	22
18	80	90	66	55	86	300	511	756	486	50	42	19
19	82	81	68	56	94	288	390	897	462	50	41	21
20	86	78	68	57	98	248	531	887	394	51	46	21
21	72	79	71	58	102	228	639	825	322	49	42	21
22	56	82	73	60	111	242	539	673	254	46	43	18
23	46	84	76	61	110	258	376	544	217	44	46	17
24	42	87	81	62	102	248	333	404	227	43	40	16
25	54	91	86	64	98	218	333	367	371	46	39	15
26	62	90	81	67	101	208	291	431	447	48	40	17
27	58	87	77	68	110	192	245	519	317	47	39	27
28	54	94	73	67	121	170	225	568	218	49	36	90
29	52	80	70	65	130	158	222	677	154	43	37	29
30	56	77	68	62	-----	145	232	840	115	38	36	26
31	63	-----	65	61	-----	162	-----	893	-----	38	36	-----
TOTAL	2,004	2,702	2,142	1,912	2,426	10,332	9,553	14,236	23,148	1,560	1,328	949
MEAN	64.6	90.1	69.1	61.7	83.7	333	318	459	772	50.3	42.8	31.6
MAX	86	110	96	68	130	985	895	897	1,970	93	55	90
MIN	42	73	59	52	57	145	122	198	115	38	36	15
AC-FT	3,970	5,360	4,250	3,790	4,810	20,490	18,950	28,240	45,910	3,090	2,630	1,880
WTR YR 1971	TOTAL 74,185		MEAN 203	MAX 1,420		MIN 26	AC-FT 147,100					
CAL YR 1972	TOTAL 72,292		MEAN 198	MAX 1,970		MIN 15	AC-FT 143,400					

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WYO.

LOCATION.--Lat 42°06'38", long 110°42'34", in NW¼SE¼NW¼ sec.35, T.25 N., R.117 W., Lincoln County, on left bank 2.0 miles downstream from Pole Creek, 4.6 miles upstream from Taylor Creek, and 22 miles northwest of Frontier.

DRAINAGE AREA.--128 sq mi.

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Altitude of gage is 7,455 ft (from topographic map). Prior to Sept. 2, 1971, at site 120 ft upstream at present datum.

AVERAGE DISCHARGE.--20 years, 101 cfs (73,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,100 cfs June 6 (gage height, 7.45 ft); minimum daily, 12 cfs Feb. 3.

Period of record: Maximum discharge, 1,520 cfs May 28, 1971 (gage height, 8.10 ft); minimum daily, 2.0 cfs Mar. 20, 1965.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	21	20	22	13	16	28	223	1,030	291	69	30
2	35	22	20	21	13	17	31	207	1,070	277	67	31
3	33	24	19	20	12	17	35	250	1,080	258	63	30
4	32	26	20	19	13	18	38	364	1,050	243	58	28
5	32	27	21	18	13	18	47	460	1,010	223	58	34
6	28	25	22	17	14	18	68	534	1,060	209	53	64
7	26	24	21	18	15	19	80	612	1,070	197	50	47
8	25	25	19	20	16	20	83	612	1,060	186	47	37
9	24	27	18	21	17	19	79	580	1,020	177	46	34
10	23	28	17	21	17	19	78	506	956	166	44	32
11	23	29	17	20	16	20	93	552	912	160	44	32
12	22	30	16	18	16	21	110	570	860	151	43	30
13	22	27	16	17	18	22	100	632	808	143	44	27
14	22	26	15	16	21	23	110	752	748	135	47	27
15	22	25	16	17	23	25	130	876	692	129	48	26
16	22	24	17	18	24	27	150	964	660	123	50	25
17	22	24	18	20	23	30	180	976	650	119	47	25
18	24	23	17	21	22	35	170	936	640	113	42	24
19	25	22	17	22	21	38	160	944	573	106	43	27
20	26	23	18	23	20	40	140	1,030	503	104	47	30
21	26	25	19	24	21	42	120	1,000	454	108	42	26
22	25	24	20	24	23	43	118	920	445	100	38	26
23	23	24	22	23	24	43	120	760	460	93	37	25
24	23	22	23	21	23	41	130	716	433	86	37	25
25	23	22	24	19	22	39	145	752	478	84	38	25
26	23	21	23	18	20	38	143	816	400	82	35	25
27	23	22	22	17	18	35	151	808	361	84	32	25
28	22	22	20	17	16	32	193	856	333	77	31	26
29	21	21	19	16	15	30	238	916	313	72	30	26
30	20	21	19	15	-----	29	261	968	299	69	30	24
31	20	-----	21	14	-----	27	-----	1,000	-----	69	30	-----
TOTAL	769	726	596	597	529	861	3,529	22,092	21,428	4,434	1,390	893
MEAN	24.8	24.2	19.2	19.3	18.2	27.8	118	713	714	143	44.8	29.8
MAX	35	30	24	24	24	43	261	1,030	1,080	291	69	64
MIN	20	21	15	14	12	16	28	207	299	69	30	24
AC-FT	1,530	1,440	1,180	1,180	1,050	1,710	7,000	43,820	42,500	8,790	2,760	1,770
CAL YR 1971	TOTAL 78,038.9 MEAN 214 MAX 1,450 MIN 3.3 AC-FT 154,800											
WTR YR 1972	TOTAL 57,844.0 MEAN 158 MAX 1,080 MIN 12 AC-FT 114,700											

PEAK DISCHARGE (BASE, 350 CFS)

NOTE.--No gage-height record Jan. 2 to Mar. 6.

DATE	TIME	G.HT.	DISCHARGE
5-20	0900	7.40	1,080
6- 6	1700	7.45	1,100

GREEN RIVER BASIN

09223500 HAMS FORK NEAR FRONTIER, WYO.

LOCATION.--Lat 41°51'26", long 110°33'45", in lot 39, NE¼SE¼ sec.27, T.22 N., R.116 W., Lincoln County, on right bank 800 ft upstream from highway bridge, 1.5 miles upstream from Willow Creek, and 3.5 miles northwest of Frontier.

DRAINAGE AREA.--298 sq mi.

PERIOD OF RECORD.--May 1945 to October 1971, April to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (by barometer). May 8 to July 23, 1945, nonrecording gage at highway bridge 800 ft downstream at same datum.

AVERAGE DISCHARGE.--26 years (1945-71), 147 cfs (106,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,470 cfs May 24 (gage height, 5.23 ft); minimum daily during period of operation, 16 cfs Oct. 29.
Period of record: Maximum discharge, 2,450 cfs May 19, 1950 (gage height, 6.74 ft); minimum daily, 3.6 cfs Apr. 26, 1961.

REMARKS.--Records good. Flow regulated by Lake Viva Naughton (capacity, 42,400 acre-ft) since May 1961 and Kemmerer Reservoir (capacity, 1,058 acre-ft). Diversions above station for irrigation of about 5,050 acres, of which about 90 acres lies below station. Water is pumped from river just upstream from station for use at Naughton powerplant.

REVISIONS (WATER YEARS).--WSP 1633: 1958.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52						80	760	870	332	46	64
2	51						90	760	1,020	318	47	64
3	51						100	772	1,070	279	47	64
4	51						110	794	1,160	272	45	63
5	50						130	816	1,350	268	41	64
6	50						150	920	1,370	254	40	68
7	50						178	1,040	1,370	175	40	67
8	50						293	1,050	1,380	185	40	65
9	49						487	1,080	1,380	188	39	65
10	50						518	1,080	1,400	180	39	65
11	50						550	1,090	1,360	130	39	64
12	48						645	1,080	1,200	99	50	63
13	28						760	1,090	1,100	94	64	45
14	29						838	1,100	909	120	70	29
15	32						887	1,130	876	132	71	24
16	32						898	1,150	870	114	70	24
17	32						892	1,160	766	110	67	24
18	33						882	1,170	728	114	64	24
19	32						860	1,190	711	116	64	24
20	32						838	1,270	706	152	67	22
21	32						821	1,290	700	164	67	21
22	32						816	1,370	675	164	65	21
23	32						794	1,440	655	128	68	21
24	33						722	1,450	595	88	70	21
25	34						605	1,400	645	83	71	24
26	32						546	1,350	580	84	71	28
27	20						670	1,050	550	83	70	24
28	17						738	909	446	78	70	24
29	16						766	711	351	75	70	30
30	17				-----		766	760	262	72	68	29
31	18	-----			-----		-----	848	-----	52	68	-----
TOTAL	1,135						17,430	33,080	27,055	4,703	1,808	1,235
MEAN	36.6						581	1,067	902	152	58.3	41.2
MAX	52						898	1,450	1,400	332	71	68
MIN	16						80	711	262	52	39	21
AC-FT	2,250						34,570	65,610	53,660	9,330	3,590	2,450

GREEN RIVER BASIN

187

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.

LOCATION.--Lat 41°32'46", long 109°41'34", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.18 N., R.109 W., Sweetwater County, on right bank 200 ft upstream from bridge on U.S. Highway 30, 4.2 miles upstream from Meadow Springs Wash, and 8.5 miles east of Little America.

DRAINAGE AREA.--3,100 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 366 cfs (265,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,710 cfs June 6 (gage height, 7.83 ft); maximum gage height, 9.64 ft Mar. 12 (backwater from ice); minimum daily discharge, 34 cfs Sept. 28.

Period of record: Maximum discharge, 9,980 cfs June 13, 1965 (gage height, 10.90 ft); no flow Sept. 20-26, 1962.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir (capacity, 39,600 acre-ft) since June 1971, Viva Naughton Reservoir (capacity, 42,400 acre-ft), numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	110	113	92	80	250	334	1,250	1,760	550	108	43
2	89	120	110	94	77	290	343	1,250	1,750	455	148	41
3	104	132	115	92	80	340	356	1,160	1,890	410	120	50
4	120	140	123	86	85	450	370	1,150	2,550	388	162	49
5	134	136	130	84	88	510	402	1,190	2,800	343	108	56
6	127	127	120	86	93	600	425	1,310	3,320	312	98	80
7	134	123	110	88	97	750	510	1,420	3,540	307	95	71
8	120	120	102	89	98	870	614	1,420	3,230	294	92	90
9	114	112	92	90	96	1,050	614	1,490	3,190	272	86	95
10	120	112	85	88	94	1,400	626	1,610	3,340	236	77	98
11	120	117	82	88	94	1,800	740	1,710	3,140	232	71	92
12	120	126	83	85	100	1,600	817	1,620	2,760	212	66	99
13	144	135	85	81	106	1,280	957	1,540	2,580	193	63	89
14	151	140	88	76	110	1,050	1,140	1,530	2,340	165	60	86
15	151	140	90	73	106	999	1,260	1,550	2,000	148	63	86
16	151	134	90	72	110	922	1,530	1,560	1,600	130	56	86
17	150	126	90	73	117	971	1,690	1,640	1,380	127	77	88
18	140	120	90	75	126	880	1,730	1,820	1,340	140	92	53
19	150	113	92	77	130	887	1,580	2,130	1,320	137	98	48
20	160	112	94	78	126	838	1,560	2,220	1,270	127	101	46
21	130	120	96	79	126	747	1,650	2,170	1,140	124	89	41
22	110	120	98	81	121	680	1,610	2,050	1,080	120	74	41
23	95	124	105	84	120	668	1,500	1,940	1,280	137	60	43
24	90	130	110	85	115	644	1,390	1,900	1,010	151	60	41
25	85	134	120	88	120	609	1,320	1,810	1,010	154	58	38
26	80	140	110	92	135	560	1,310	1,830	1,010	144	50	36
27	76	135	106	97	155	515	1,240	1,900	1,080	124	40	36
28	80	130	100	93	180	470	1,110	1,960	936	130	38	34
29	84	125	96	88	210	388	1,120	2,020	910	137	40	36
30	95	120	94	87	-----	374	1,190	1,910	674	130	38	80
31	100	-----	92	84	-----	334	-----	1,760	-----	111	40	-----
TOTAL	3,607	3,773	3,111	2,625	3,295	23,726	31,038	51,820	57,130	6,640	2,428	1,831
MEAN	116	126	100	84.7	114	765	1,035	1,672	1,904	214	78.3	61.0
MAX	160	140	130	97	210	1,800	1,730	2,220	3,540	550	162	99
MIN	76	110	82	72	77	250	334	1,150	674	111	38	34
AC-FT	7,150	7,480	6,170	5,210	6,540	47,060	61,560	102,800	113,300	13,170	4,820	3,630

CAL YR 1971 TOTAL 222,505 MEAN 610 MAX 3,320 MIN 34 AC-FT 441,300
WTR YR 1972 TOTAL 191,024 MEAN 522 MAX 3,540 MIN 34 AC-FT 378,300

NOTE.--No gage-height record Oct. 10 to Dec. 4.

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WYO.

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 October 1971, May to September 1972 (discontinued). 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 (1942-71), 40.8 cfs (29,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 695 cfs May 31 (gage height, 5.01 ft); minimum daily during period of operation, 6.9 cfs Sept. 25, 26.

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 fair. 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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15							24	516	54	18	14
2	14							24	503	53	19	12
3	13							28	429	50	17	12
4	15							35	466	46	17	11
5	18							40	380	46	16	11
6	18							40	320	44	13	17
7	18							36	340	43	13	13
8	17							41	340	45	12	12
9	16							48	298	43	12	11
10	15							43	262	41	11	11
11	14							37	250	43	11	11
12	14							35	230	38	11	12
13	13							34	206	36	11	11
14	12							42	189	34	10	11
15	11							58	164	34	10	11
16	12							81	150	31	9.8	10
17	13							106	167	30	8.6	10
18	12							126	153	27	8.6	10
19	11							136	136	24	9.2	10
20	10							131	119	30	9.5	9.5
21	11							106	108	37	9.2	8.6
22	11							114	112	27	9.5	8.1
23	12							110	108	22	9.5	7.9
24	12							153	84	21	9.2	7.3
25	13							234	75	20	10	6.9
26	11							312	62	24	13	6.9
27	10							364	61	28	12	7.5
28	9.0							403	60	22	11	9.8
29	8.0							447	58	20	10	9.5
30	8.5							500	56	20	9.2	8.9
31	9.0	-----			-----		-----	489	-----	19	8.9	-----
TOTAL	395.5							4,377	6,402	1,052	358.2	310.9
MEAN	12.8							141	213	33.9	11.6	10.4
MAX	18							500	516	54	19	17
MIN	9.0							24	56	19	8.6	6.9
AC-FT	784							8,680	12,700	2,090	710	617

PEAK DISCHARGE (BASE, 300 CFS)

DATE TIME G.H.T. DISCHARGE
5-31 2300 5.01 695

GREEN RIVER BASIN

189

09228500 BURNT FORK NEAR BURNTFORK, WYO.

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, Utah, Wasatch National Forest, on left bank 0.6 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 (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (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 (1943-71), 31.1 cfs (22,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 274 cfs June 3 (gage height, 3.02 ft); minimum daily during period of operation, 8.3 cfs Oct. 29.

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 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16							10	222	66	35	23
2	16							10	230	65	37	20
3	14							8.6	250	81	33	21
4	13							12	241	88	33	20
5	14							16	220	86	31	22
6	15							16	220	84	28	22
7	14							15	235	82	25	20
8	13							19	220	82	23	18
9	13							24	195	80	21	17
10	13							19	172	80	21	17
11	12							16	157	77	21	18
12	12							15	146	70	20	19
13	12							15	135	65	18	19
14	11							19	120	60	19	19
15	11							34	110	58	18	18
16	11							59	103	56	18	18
17	10							73	107	54	17	18
18	9.5							74	93	48	18	18
19	9.3							69	84	46	19	17
20	9.2							61	79	52	18	17
21	10							61	79	55	18	17
22	10							69	70	42	17	17
23	11							70	64	42	17	16
24	11							76	60	42	17	15
25	12							93	58	44	18	14
26	11							114	62	54	21	14
27	10							125	65	54	21	14
28	9.2							139	80	46	19	15
29	8.3							170	72	41	17	16
30	8.7							185	70	39	16	15
31	9.3	-----			-----		-----	195	-----	37	19	-----
TOTAL	358.5							1,881.6	4,019	1,876	673	534
MEAN	11.6							60.7	134	60.5	21.7	17.8
MAX	16							195	250	88	37	23
MIN	8.3							8.6	58	37	16	14
AC-FT	711							3,730	7,970	3,720	1,330	1,060

GREEN RIVER BASIN

191

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 at same datum.

EXTREMES.--Current year: Maximum contents observed, 3,540,000 acre-ft July 28, 29 (elevation, 6,034.91 ft); minimum observed, 2,559,000 acre-ft Mar. 3 (elevation, 6,007.50 ft).

Period of record: Maximum contents observed, 3,540,000 acre ft July 28, 29, 1972 (elevation, 6,034.91 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)

6,000	2,327,000	6,030	3,346,000
6,010	2,639,000	6,035	3,543,000
6,020	2,977,000		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,931	2,898	2,809	2,704	2,628	2,561	2,638	2,731	2,912	3,470	3,533	3,490
2	2,930	2,895	2,804	2,703	2,625	2,559	2,641	2,733	2,923	3,481	3,531	3,492
3	2,929	2,891	2,800	2,701	2,622	2,559	2,643	2,736	2,936	3,488	3,527	3,493
4	2,928	2,888	2,795	2,697	2,620	2,560	2,645	2,739	2,952	3,494	3,526	3,494
5	2,926	2,884	2,790	2,691	2,617	2,561	2,646	2,741	2,969	3,500	3,525	3,497
6	2,925	2,881	2,784	2,687	2,616	2,563	2,647	2,742	2,986	3,507	3,525	3,497
7	2,924	2,890	2,783	2,684	2,614	2,565	2,646	2,744	3,006	3,511	3,525	3,497
8	2,922	2,879	2,777	2,681	2,610	2,568	2,643	2,745	3,023	3,517	3,523	3,498
9	2,921	2,876	2,772	2,681	2,608	2,569	2,643	2,747	3,046	3,516	3,523	3,498
10	2,920	2,874	2,768	2,680	2,606	2,571	2,643	2,749	3,066	3,520	3,520	3,499
11	2,919	2,872	2,763	2,676	2,601	2,573	2,641	2,755	3,088	3,523	3,516	3,500
12	2,917	2,871	2,758	2,672	2,597	2,576	2,642	2,758	3,109	3,524	3,514	3,500
13	2,915	2,868	2,754	2,668	2,597	2,579	2,643	2,762	3,130	3,526	3,513	3,500
14	2,912	2,866	2,750	2,665	2,592	2,581	2,645	2,766	3,154	3,528	3,512	3,500
15	2,910	2,863	2,745	2,663	2,588	2,583	2,648	2,769	3,180	3,529	3,508	3,499
16	2,909	2,860	2,741	2,663	2,584	2,585	2,656	2,774	3,207	3,533	3,507	3,496
17	2,909	2,857	2,736	2,661	2,581	2,588	2,662	2,779	3,236	3,535	3,505	3,495
18	2,908	2,853	2,733	2,659	2,578	2,595	2,668	2,784	3,262	3,536	3,502	3,492
19	2,907	2,848	2,730	2,656	2,576	2,599	2,673	2,791	3,287	3,537	3,502	3,490
20	2,906	2,846	2,726	2,653	2,576	2,603	2,677	2,800	3,310	3,538	3,501	3,488
21	2,905	2,843	2,722	2,650	2,576	2,607	2,684	2,809	3,328	3,539	3,499	3,487
22	2,905	2,838	2,718	2,649	2,574	2,611	2,689	2,816	3,343	3,538	3,496	3,487
23	2,904	2,834	2,714	2,649	2,572	2,616	2,695	2,824	3,362	3,539	3,494	3,486
24	2,904	2,831	2,718	2,647	2,570	2,620	2,701	2,832	3,378	3,539	3,492	3,486
25	2,904	2,829	2,717	2,645	2,568	2,624	2,705	2,842	3,389	3,539	3,490	3,485
26	2,903	2,826	2,717	2,642	2,566	2,627	2,710	2,847	3,402	3,539	3,490	3,481
27	2,903	2,823	2,717	2,641	2,566	2,630	2,714	2,858	3,416	3,539	3,490	3,478
28	2,903	2,819	2,716	2,639	2,564	2,633	2,718	2,872	3,431	3,540	3,490	3,475
29	2,902	2,815	2,713	2,636	2,562	2,634	2,722	2,883	3,447	3,540	3,488	3,471
30	2,899	2,812	2,707	2,633	-----	2,635	2,728	2,893	3,460	3,537	3,489	3,465
31	2,898	-----	2,705	2,632	-----	2,637	-----	2,902	-----	3,535	3,490	-----
MAX	2,931	2,898	2,809	2,704	2,628	2,637	2,728	2,902	3,460	3,540	3,533	3,500
MIN	2,898	2,812	2,705	2,632	2,562	2,559	2,638	2,731	2,912	3,470	3,488	3,465
(†)	6,017.73	6,015.22	6,012.01	6,009.78	6,007.62	6,009.94	6,012.73	6,017.87	6,032.92	6,034.80	6,033.66	6,033.05
(*)	-33	-86	-107	-73	-70	+75	+91	+174	+558	+75	-45	-25
CAL YR 1971..... †			+944									
WTR YR 1972..... †			+534									

† Elevation, in feet, at end of month.

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

GREEN RIVER BASIN

193

09253000 LITTLE SNAKE RIVER NEAR SLATER, COLO.

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mile downstream from Spring Creek, and 12 miles east of Slater.

DRAINAGE AREA.--285 sq mi.

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft above mean sea level.

AVERAGE DISCHARGE.--27 years, 220 cfs (159,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,210 cfs June 8 (gage height, 7.16 ft); minimum daily, 12 cfs Jan. 24.

Period of record: Maximum discharge, 3,230 cfs June 7, 1957 (gage height, 8.27 ft); minimum daily, 8.6 cfs Sept. 10, 1944.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres above station.

REVISIONS (WATER YEARS).--WSP 1733: 1960.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	42	21	32	30	28	71	425	1,370	160	28	22
2	39	37	21	32	30	57	75	435	1,400	148	31	31
3	39	48	23	30	35	72	72	530	1,530	133	34	27
4	40	44	26	15	38	78	72	662	1,520	120	34	25
5	41	36	23	13	38	78	97	757	1,420	110	38	25
6	41	42	30	17	38	99	148	778	1,410	101	33	54
7	38	44	31	22	34	107	138	750	1,410	99	28	37
8	36	41	33	16	32	96	165	904	1,530	94	23	26
9	34	42	30	16	30	87	204	932	1,540	85	24	23
10	33	39	28	13	28	109	151	890	1,330	84	22	23
11	33	39	28	17	28	110	258	778	1,230	78	20	30
12	31	34	27	17	35	112	395	638	1,130	81	19	27
13	30	37	28	20	31	122	306	596	1,020	68	18	23
14	30	39	29	19	32	116	265	644	918	58	18	20
15	29	38	32	21	31	92	214	841	834	54	18	19
16	30	38	31	23	32	84	262	960	764	53	18	18
17	51	36	29	24	34	87	335	995	708	53	20	18
18	67	25	33	23	32	101	385	1,030	715	49	19	17
19	49	20	30	20	29	114	345	1,100	708	45	29	20
20	40	22	30	18	31	99	301	1,170	560	46	29	36
21	48	24	28	16	39	89	310	1,220	505	42	24	26
22	45	25	26	16	42	107	310	1,080	470	39	23	23
23	41	25	30	14	34	125	345	1,020	460	36	22	22
24	42	28	33	12	31	110	450	974	405	33	29	21
25	45	28	58	18	28	105	560	988	335	34	25	21
26	46	21	46	18	25	99	560	1,050	248	34	22	22
27	44	23	30	16	58	89	450	1,120	248	45	20	21
28	44	26	21	15	42	82	410	1,200	217	41	18	28
29	36	25	22	20	44	79	440	1,240	195	33	19	37
30	38	23	24	23	-----	76	510	1,270	174	30	21	31
31	40	-----	29	27	-----	75	-----	1,330	-----	29	19	-----
TOTAL	1,234	991	910	603	991	2,884	8,604	28,307	26,304	2,115	745	773
MEAN	39.8	33.0	29.4	19.5	34.2	93.0	287	913	877	68.2	24.0	25.8
MAX	67	48	58	32	58	125	560	1,330	1,540	160	38	54
MIN	29	20	21	12	25	28	71	425	174	29	18	17
AC-FT	2,450	1,970	1,800	1,200	1,970	5,720	17,070	56,150	52,170	4,200	1,480	1,530
CAL YR 1971	TOTAL 124,122	MEAN 340	MAX 2,410	MIN 20	AC-FT 246,200							
WTR YR 1972	TOTAL 74,461	MEAN 203	MAX 1,540	MIN 12	AC-FT 147,700							

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE TIME G.H.T. DISCHARGE

6- 8 2100 7.16 2,210

GREEN RIVER BASIN

09255000 SLATER FORK NEAR SLATER, COLO.

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, on right bank 15 ft downstream from highway bridge, 1.0 mile upstream from mouth, and 1.5 miles south of Slater.

DRAINAGE AREA.--161 sq mi.

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (from river-profile map). May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 miles upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mile downstream at different datum.

AVERAGE DISCHARGE.--41 years (1931-72), 72.1 cfs (52,240 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 500 cfs June 3 (gage height, 6.93 ft); minimum daily, 0.60 cfs Aug. 15.

Period of record: Maximum discharge observed, 1,700 cfs May 19, 1912 (gage height, 5.00 ft, site and datum then in use); no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954.

REMARKS.--Records fair. Diversions for irrigation of about 500 acres above station.

REVISIONS (WATER YEARS).--WSP 618: 1910-11. WSP 764: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	27	21	36	18	17	26	153	210	24	3.0	4.4
2	17	26	21	38	19	22	29	150	213	17	3.5	11
3	18	23	22	37	20	25	30	169	259	15	4.9	8.2
4	17	30	22	31	20	30	32	195	307	17	5.5	6.1
5	15	29	21	27	19	35	37	240	287	15	5.1	6.6
6	15	20	20	26	18	43	46	220	260	15	4.9	15
7	15	26	19	23	18	48	47	204	290	15	4.2	13
8	15	30	18	22	17	53	48	233	280	13	2.5	8.5
9	14	29	17	23	17	58	56	232	240	11	1.7	6.7
10	14	27	18	18	18	65	65	228	210	12	1.6	6.6
11	14	26	18	16	19	69	80	197	180	11	1.2	13
12	14	26	18	15	19	71	121	169	160	10	1.1	13
13	14	25	18	14	18	74	112	151	150	9.4	.82	9.0
14	14	23	18	14	18	75	103	141	132	7.8	.61	6.6
15	15	24	19	14	18	72	86	163	127	6.0	.60	7.1
16	15	24	20	14	18	71	77	204	131	6.0	.65	7.0
17	18	23	21	15	18	70	91	240	131	5.3	.79	7.8
18	27	19	21	14	18	72	115	263	119	5.0	.97	8.5
19	26	20	22	13	18	73	115	258	140	4.0	1.1	12
20	25	21	24	13	17	70	105	248	102	4.1	1.4	22
21	23	24	25	13	17	66	106	258	84	4.5	1.7	17
22	23	23	24	13	17	64	111	218	75	4.7	1.8	13
23	22	21	26	13	18	64	109	192	73	4.1	1.8	11
24	22	24	31	13	19	58	132	185	60	3.2	3.4	10
25	23	25	53	13	18	54	177	194	49	3.4	3.8	11
26	25	24	43	13	16	48	191	204	44	3.4	3.7	10
27	25	23	35	13	15	39	153	212	40	3.6	3.0	13
28	25	21	28	13	20	29	143	220	36	3.8	2.3	18
29	24	21	33	14	19	27	153	218	33	3.6	2.3	22
30	23	21	34	16	-----	26	180	211	27	3.0	2.9	20
31	25	-----	34	16	-----	26	-----	212	-----	2.7	2.8	-----
TOTAL	597	725	764	570	524	1,614	2,876	6,382	4,449	262.6	75.64	337.1
MEAN	19.3	24.2	24.6	18.4	18.1	52.1	95.9	206	148	8.47	2.44	11.2
MAX	27	30	53	38	20	75	191	263	307	24	5.5	22
MIN	14	19	17	13	15	17	26	141	27	2.7	.60	4.4
AC-FT	1,180	1,440	1,520	1,130	1,040	3,200	5,700	12,660	8,820	521	150	669
CAL YR 1971	TOTAL 39,688.90		MEAN 109		MAX 741		MIN 1.5		AC-FT 78,720			
WTR YR 1972	TOTAL 19,176.34		MEAN 52.4		MAX 307		MIN .60		AC-FT 38,040			

PEAK DISCHARGE (BASE, 430 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 3	1430	6.93	500

GREEN RIVER BASIN

195

09256000 SAVERY CREEK NEAR SAVERY, WYO.

LOCATION.--Lat 41°05'52", long 107°22'53", in NW¼NW¼SW¼ sec.14, T.13 N., R.89 W., Carbon County, on left bank at downstream side of bridge on county road, 0.2 mile upstream from Big Gulch, 1.7 miles downstream from Loco Creek, and 6.1 miles northeast of Savery.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--October 1941 to September 1946, October 1947 to September 1971, April to September 1972 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (from topographic map). Prior to Nov. 17, 1946, water-stage recorder at site 300 ft to right (on abandoned channel) at different datum.

AVERAGE DISCHARGE.--29 years (1941-46, 1947-71), 104 cfs (75,350 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 548 cfs May 6 (gage height, 4.83 ft); minimum daily during period of operation, 7.4 cfs Aug. 18.

Period of record: Maximum discharge, 2,670 cfs May 4, 1952 (gage height, 7.30 ft), from rating curve extended above 1,100 cfs on basis of slope-area measurement of peak flow; no flow Sept. 1, 2, 8-10, 1959, Aug. 7, 10-22, Sept. 15, 16, 1960.

REMARKS.--Records good. Diversions above station for irrigation of about 780 acres, of which about 140 acres lies below station. Transbasin diversion above station.

REVISIONS (WATER YEARS).--WRD Wyo. 1970: 1969.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							100	247	338	64	20	11
2							120	247	346	59	20	12
3							110	280	380	55	19	12
4							120	335	469	52	18	12
5							130	384	493	47	17	12
6							240	457	453	44	15	21
7							230	473	391	42	14	29
8							220	469	363	40	12	22
9							260	473	342	38	12	20
10							290	453	314	38	11	17
11							314	405	273	39	9.8	18
12							473	346	250	38	9.4	19
13							352	297	225	28	9.8	17
14							283	293	207	25	9.0	17
15							210	335	187	23	8.2	16
16							222	366	176	23	8.2	14
17							324	429	171	22	7.8	14
18							328	441	164	20	7.4	14
19							269	449	158	20	8.6	19
20							219	465	140	22	9.0	23
21							216	457	120	23	9.0	22
22							210	413	113	21	8.6	19
23							225	363	109	18	8.2	18
24							297	335	105	19	8.6	18
25							356	328	96	19	9.8	20
26							321	332	94	18	9.4	20
27							266	335	83	20	9.0	22
28							273	338	76	20	9.0	28
29							321	338	71	19	9.4	28
30							328	342	66	17	9.4	23
31							338	338	-----	19	9.8	-----
TOTAL							7,627	11,563	6,773	952	345.4	557
MEAN							254	373	226	30.7	11.1	18.6
MAX							473	473	493	64	20	29
MIN							100	247	66	17	7.4	11
AC-FT							15,130	22,940	13,430	1,890	685	1,100

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-12	0800	4.74	509	5- 6	2330	4.83	548
4-17	1930	4.39	374	5-20	2400	4.68	485
4-24	2030	4.51	417	6- 4	1500	4.77	521

GREEN RIVER BASIN

09257000 LITTLE SNAKE RIVER NEAR DIXON, WYO.

LOCATIONS.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, on left bank 200 ft upstream from highway bridge, 1,000 ft upstream from Willow Creek, and 0.8 mile west of Dixon.

DRAINAGE AREA.--988 sq mi.

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft above mean sea level. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft downstream at datum 2.98 ft higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft downstream at datum 2.98 ft higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft downstream at present datum.

AVERAGE DISCHARGE.--46 years (1910-23, 1938-71), 514 cfs (372,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,560 cfs June 9 (gage height, 9.78 ft); minimum daily during period of operation, 2.1 cfs Sept. 17, 18.

Period of record: Maximum discharge observed, 9,600 cfs May 26, 1920 (gage height, 11.6 ft, present datum); maximum gage height, 11.74 ft May 30, 1971; minimum daily discharge, 0.2 cfs Sept. 26, 1956.

REMARKS.--Records poor. Diversions for irrigation of about 9,500 acres above station. One diversion above station for irrigation of about 3,000 acres below. Transbasin diversions above station. Results of discharge measurements, in cubic feet per second, made during winter when station was not in operation are given below:

Nov. 23 . .	116	Feb. 9 . .	99.0
Dec. 21 . .	117	Mar. 9 . .	542
Jan. 19 . .	104		

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1243: 1920(M). WRD Wyo, 1970: 1969.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							270	2,350	2,440	120	2.5	7.9
2							309	2,400	2,450	110	2.2	12
3							291	2,160	2,770	100	2.5	20
4							312	1,950	3,210	85	2.5	9.0
5							351	1,610	3,020	75	2.5	5.8
6							631	1,650	2,820	30	2.3	12
7							615	1,590	2,700	13	2.6	36
8							595	1,460	2,700	11	4.5	12
9							720	1,370	2,970	14	6.2	4.0
10							786	1,400	2,440	13	6.2	5.2
11							858	1,600	2,060	11	4.5	5.2
12							1,330	1,880	1,940	7.6	3.3	14
13							1,120	2,130	1,710	5.0	4.5	8.2
14							930	2,190	1,570	4.5	5.5	4.0
15							680	1,840	1,320	5.0	3.0	2.5
16							620	1,530	1,200	5.8	2.5	2.2
17							816	1,380	1,120	5.8	6.2	2.1
18							1,070	1,750	1,100	5.5	6.2	2.1
19							960	2,000	1,110	4.2	3.7	2.6
20							768	2,130	840	4.2	2.5	6.0
21							786	2,420	690	4.8	16	26
22							756	2,080	595	5.5	10	12
23							762	1,850	545	4.5	3.8	10
24							960	1,710	458	3.7	3.3	10
25							1,360	1,650	373	3.2	10	10
26							1,750	1,770	320	3.0	5.5	10
27							2,220	1,880	274	3.2	2.3	10
28							2,380	2,100	224	3.3	3.7	10
29							2,280	2,180	190	3.7	7.6	10
30							2,020	2,240	150	3.0	6.8	10
31		-----			-----		-----	2,330	-----	2.5	7.9	-----
TOTAL							29,306	58,580	45,309	670.0	152.8	290.8
MEAN							977	1,890	1,510	21.6	4.93	9.69
MAX							2,380	2,420	3,210	120	16	36
MIN							270	1,370	150	2.5	2.2	2.1
AC-FT							58,130	16,200	89,870	1,330	303	577

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 9	0700	9.78	3,560

GREEN RIVER BASIN

197

09258000 WILLOW CREEK NEAR DIXON, WYO.

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, Colorado, on right bank 6.2 miles south of Colorado-Wyoming State line, 8.0 miles upstream from mouth, and 8.3 miles south of Dixon.

DRAINAGE AREA.--24 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--19 years, 9.19 cfs (6,660 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 100 cfs June 4 (gage height, 3.88 ft); minimum daily, 0.85 cfs Jan. 28, Aug. 13.

Period of record: Maximum discharge, 267 cfs May 6, 1970 (gage height, 5.16 ft); no flow Sept. 17-19, 1955.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake (capacity, 400 acre-ft).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.7	2.5	1.4	1.2	1.8	3.0	7.7	34	7.0	4.4	3.3
2	4.6	3.7	2.2	1.5	1.2	1.9	3.7	7.0	36	6.7	4.8	3.4
3	4.0	3.6	2.5	1.6	1.4	2.0	3.5	6.5	42	6.2	5.2	2.1
4	3.4	3.3	2.4	1.6	1.6	2.0	4.5	7.7	56	5.6	4.6	1.9
5	3.6	3.6	2.0	1.3	1.7	2.0	8.9	11	50	5.4	4.8	1.8
6	3.7	2.3	1.9	1.5	1.8	1.8	12	11	43	5.0	4.0	4.0
7	3.7	3.7	2.2	1.6	2.0	2.0	9.2	10	46	4.8	1.9	2.5
8	3.1	4.0	2.2	1.6	2.1	2.2	8.7	14	43	4.6	1.3	1.7
9	3.0	3.0	1.8	1.9	1.8	1.9	11	13	48	4.4	1.4	1.3
10	2.8	3.1	2.0	1.8	1.6	1.8	11	12	38	6.2	1.2	1.7
11	2.8	3.4	2.1	1.9	1.6	1.9	13	11	32	6.7	1.1	2.8
12	2.7	3.7	2.0	2.0	1.7	2.0	17	9.4	34	6.7	1.0	2.0
13	2.5	3.0	2.1	2.0	1.8	1.9	11	7.9	29	6.2	.85	1.4
14	2.5	3.3	1.7	2.0	1.9	2.1	9.7	7.2	24	5.8	.94	1.2
15	2.3	3.3	2.1	1.8	2.0	2.0	7.2	8.4	20	5.6	1.1	1.2
16	2.8	3.0	1.8	1.8	2.1	1.9	6.5	12	21	5.6	1.2	1.2
17	6.2	3.0	1.6	1.9	2.1	2.0	7.2	13	19	6.0	1.3	1.1
18	5.8	2.1	1.6	2.0	2.0	2.0	8.9	16	18	5.8	1.4	1.2
19	3.6	2.6	1.6	2.0	1.8	2.5	7.7	17	20	5.4	2.3	2.0
20	3.7	2.7	1.7	2.0	1.6	2.3	6.0	16	15	5.6	1.8	5.4
21	3.7	3.0	1.5	1.9	1.8	2.2	5.8	19	13	5.6	1.4	2.5
22	3.4	2.8	1.6	1.7	1.7	2.3	6.2	16	12	5.4	1.7	2.0
23	3.0	3.1	1.9	1.6	1.7	2.4	6.2	16	12	5.2	1.5	1.8
24	3.1	3.2	2.1	1.3	1.8	2.3	7.7	18	10	5.0	2.1	1.8
25	4.0	2.8	2.2	1.1	1.6	2.5	10	20	8.7	5.0	2.0	2.0
26	4.2	2.7	2.2	1.1	1.4	2.3	12	23	7.9	5.0	1.3	2.0
27	3.6	2.9	2.1	.96	1.5	2.2	10	25	7.2	5.0	1.3	2.0
28	3.3	3.2	2.0	.85	1.7	2.4	10	28	6.7	5.0	1.2	2.5
29	2.7	3.2	1.8	.88	1.7	2.6	10	28	6.5	4.8	1.5	3.1
30	2.8	3.1	1.6	1.1	-----	3.0	10	32	7.7	4.4	1.9	2.5
31	3.6	-----	1.5	1.3	-----	2.9	-----	32	-----	4.4	1.8	-----
TOTAL	109.2	94.1	60.5	48.99	49.9	67.1	257.6	474.8	759.7	170.1	64.29	65.4
MEAN	3.52	3.14	1.95	1.58	1.72	2.16	8.59	15.3	25.3	5.49	2.07	2.18
MAX	6.2	4.0	2.5	2.0	2.1	3.0	17	32	56	7.0	5.2	5.4
MIN	2.3	2.1	1.5	.85	1.2	1.8	3.0	6.5	6.5	4.4	.85	1.1
AC-FT	217	187	120	97	99	133	511	942	1,510	337	128	130

CAL YR 1971 TOTAL 5,146.70 MEAN 14.1 MAX 82 MIN 1.1 AC-FT 10,210
WTR YR 1972 TOTAL 2,221.68 MEAN 6.07 MAX 56 MIN .85 AC-FT 4,410

PEAK DISCHARGE (BASE, 70 CFS)

DATE TIME G.HT. DISCHARGE

6- 4 2100 3.88 100

NOTE.--No gage-height record Nov. 19 to Jan. 11, Jan. 30 to Apr. 4.

10010500 HILLIARD-EAST FORK CANAL NEAR STATE LINE, NEAR EVANSTON, WYO.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

AVERAGE DISCHARGE.--30 years (1942-72), 5.16 cfs (3,740 acre-ft per year).

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres in Hilliard Flat area in Wyoming.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19							0	22	34	1.3	12
2	19							0	22	34	1.0	13
3	19							0	22	32	.15	13
4	19							0	21	30	8.3	13
5	18							0	12	30	20	16
6	18							0	2.0	28	18	23
7	18							0	1.5	27	17	16
8	18							0	1.1	26	16	14
9	18							0	.91	25	15	8.4
10	18							0	.85	13	14	.39
11	18							0	.55	4.9	14	.39
12	18							0	6.2	2.9	16	.36
13	18							0	12	.15	16	.31
14	18							0	12	0	16	.31
15	18							0	12		15	.27
16	19							0	12	.80	8.1	.23
17	19							0	12	.71	1.2	.23
18	19							0	11	3.8	1.2	.23
19	19							0	11	14	1.2	.27
20	19							0	11	22	1.1	.23
21	18							0	7	24	1.0	.23
22	16							0	26	21	.97	.23
23	16							0	28	19	.97	.23
24	18							0	34	17	.91	.23
25	7.1							0	28	15	.91	.23
26	0							0	20	16	.91	.23
27	0							11	21	17	.85	.23
28	0							21	27	13	6.2	.27
29	0							21	27	7.0	14	.23
30	0							21	29	.36	13	.23
31	0	-----			-----		-----	21	-----	1.4	12	-----
TOTAL	444.1	0	0	0	0	0	0	95	452.91	479.02	252.27	133.96
MEAN	14.3	0	0	0	0	0	0	3.06	15.1	15.5	8.14	4.47
MAX	19	0	0	0	0	0	0	21	34	34	20	23
MIN	0	0	0	0	0	0	0	0	.55	0	.15	.23
AC-FT	881	0	0	0	0	0	0	188	898	950	500	266
CAL YR 1971	TOTAL 1,819.89	MEAN 4.99	MAX 32	MIN 0	AC-FT 3,610							
WTR YR 1972	TOTAL 1,857.26	MEAN 5.07	MAX 34	MIN 0	AC-FT 3,680							

BEAR RIVER BASIN

199

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, Wasatch National Forest, 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).

AVERAGE DISCHARGE.--6 years (1967-72), 8.69 cfs (6,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge recorded, 139 cfs June 8 (gage height, 2.86 ft); minimum daily, 0.15 cfs Sept. 21-30.

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 except those for periods of no gage-height record, which are poor. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.4	3.1	1.3	.77	.57	.77	1.1	2.2	14	14	31
2	3.9	3.4	3.1	1.3	.75	.57	.77	1.1	2.3	13	15	31
3	3.9	3.4	3.1	1.3	.73	.66	.77	1.1	2.4	12	14	31
4	3.9	3.3	3.1	1.3	.72	.70	.77	1.1	2.5	11	14	31
5	3.8	3.1	2.0	1.3	.64	.67	.77	1.1	45	10	14	31
6	3.9	3.1	1.3	1.3	.57	.67	.79	1.1	90	9.7	13	31
7	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	100	9.2	13	31
8	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	120	8.6	13	30
9	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	113	8.2	13	15
10	3.5	3.0	1.3	1.3	.57	.67	.83	1.1	81	7.9	13	.50
11	3.3	3.0	1.3	1.6	.56	.67	.88	1.1	75	7.9	12	.40
12	3.2	3.1	3.3	1.6	.54	.67	.96	1.1	73	7.4	12	.30
13	3.1	3.1	1.3	1.4	.54	.67	.94	1.1	71	7.1	12	.20
14	3.1	3.1	1.3	1.4	.54	.67	.93	1.2	68	6.6	12	.20
15	3.2	3.0	1.3	1.4	.54	.67	.93	1.2	61	6.3	12	.20
16	3.3	3.0	1.3	1.4	.54	.67	.94	1.3	55	5.9	12	.20
17	3.3	3.1	1.3	1.4	.54	.67	.96	1.3	53	5.9	12	.20
18	3.3	3.1	1.3	1.4	.54	.67	.89	1.3	52	43	12	.20
19	3.4	3.1	1.3	4.6	.54	.67	.86	1.4	46	84	12	.20
20	3.4	3.1	1.3	.87	.54	.67	1.0	1.4	40	72	12	.20
21	3.4	3.1	1.3	.84	.54	.67	1.0	1.4	36	81	11	.15
22	3.3	3.1	1.3	.92	.54	.68	1.0	1.5	16	72	11	.15
23	3.3	3.1	1.3	.87	.54	.70	1.0	1.5	17	65	11	.15
24	3.3	3.1	1.3	.86	.54	.73	1.0	1.5	22	65	11	.15
25	3.3	3.1	1.3	.85	.54	.74	1.0	1.5	24	65	11	.15
26	3.4	3.1	1.3	.83	.54	.77	1.0	1.6	23	63	11	.15
27	3.4	3.1	1.3	.83	.54	.77	1.0	1.7	20	61	11	.15
28	3.4	3.1	1.3	.80	.56	.77	1.0	1.8	19	61	20	.15
29	3.4	3.1	1.3	.78	.57	.77	1.0	1.9	17	34	32	.15
30	3.4	3.1	1.3	.77	-----	.77	1.0	2.0	16	15	32	.15
31	3.4	-----	1.3	.77	-----	.77	-----	2.1	-----	15	32	-----
TOTAL	106.9	93.4	50.2	39.19	16.79	21.36	27.25	41.9	1,362.4	946.7	449	266.30
MEAN	3.45	3.11	1.62	1.26	.58	.69	.91	1.35	45.4	30.5	14.5	8.88
MAX	3.9	3.4	3.3	4.6	.77	.77	1.0	2.1	120	84	32	31
MIN	3.1	3.0	1.3	.77	.54	.57	.77	1.1	2.2	5.9	11	.15
AC-FT	212	185	100	78	33	42	54	83	2,700	1,880	891	528

CAL YR 1971 TOTAL 3,554.20 MEAN 9.74 MAX 114 MIN .67 AC-FT 7,050
WTR YR 1972 TOTAL 3,421.39 MEAN 9.35 MAX 120 MIN .15 AC-FT 6,790

NOTE.--No gage-height record Apr. 20 to June 8, Aug. 5 to Sept. 30.

BEAR RIVER BASIN

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.--30 years, 192 cfs (139,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs June 5 (gage height, 3.43 ft); maximum gage height, 3.63 ft Dec. 14; minimum discharge, 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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	85	75	54	45	46	66	128	1,550	357	100	87
2	70	83	75	54	45	50	68	143	1,600	320	100	87
3	64	83	75	54	45	50	63	193	1,540	290	96	85
4	70	89	75	54	45	50	65	276	1,850	258	85	83
5	74	81	75	54	45	52	70	295	1,810	244	76	96
6	74	70	70	52	47	50	98	295	1,500	228	70	111
7	74	89	70	52	46	52	89	379	1,700	224	68	91
8	72	87	70	52	47	50	87	450	1,810	212	65	85
9	68	85	70	52	47	53	91	478	1,660	200	64	72
10	66	81	70	52	47	56	109	357	1,390	200	62	53
11	65	83	65	50	45	59	143	330	1,400	208	62	51
12	65	83	65	50	45	59	130	325	1,270	186	65	50
13	64	83	65	50	45	62	111	362	1,150	176	65	48
14	64	81	65	50	45	62	102	501	1,070	168	65	47
15	64	76	65	50	42	56	96	670	1,000	165	53	46
16	65	76	60	47	42	61	100	885	966	155	58	46
17	74	78	60	47	42	66	106	995	939	146	62	45
18	72	74	60	47	42	64	102	1,050	957	152	62	45
19	62	72	60	47	44	68	93	1,060	858	186	65	53
20	70	78	60	45	44	65	89	957	786	176	62	62
21	72	85	56	45	44	65	85	786	734	176	59	55
22	68	78	56	45	41	72	87	831	702	162	59	52
23	72	78	56	45	42	74	89	777	670	155	56	52
24	74	76	56	45	41	68	106	894	590	146	55	50
25	83	74	56	45	42	68	122	1,000	534	143	55	50
26	81	78	56	45	44	72	104	1,090	471	143	61	50
27	87	74	56	45	48	59	98	1,120	426	146	58	51
28	78	81	56	45	47	59	111	1,270	414	133	64	62
29	81	76	56	45	46	59	143	1,410	396	120	93	62
30	81	78	56	45	-----	65	146	1,470	384	100	89	55
31	87	-----	56	45	-----	65	-----	1,540	-----	100	89	-----
TOTAL	2,231	2,395	1,966	1,508	1,290	1,857	2,969	22,317	32,127	5,775	2,143	1,882
MEAN	72.0	79.8	63.4	48.6	44.5	59.9	99.0	720	1,071	186	69.1	62.7
MAX	87	89	75	54	48	74	146	1,540	1,850	357	100	111
MIN	62	70	56	45	41	46	63	128	384	100	53	45
AC-FT	4,430	4,750	3,900	2,990	2,560	3,680	5,890	44,270	63,720	11,450	4,250	3,730

CAL YR 1971 TOTAL 87,551 MEAN 240 MAX 2,070 MIN 44 AC-FT 173,700
WTR YR 1972 TOTAL 78,460 MEAN 214 MAX 1,850 MIN 41 AC-FT 155,600

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-17	2130	2.46	1,140
6- 5	0300	3.43	2,260

BEAR RIVER BASIN

201

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WYO.

LOCATION.--Lat 41°08'39", long 110°48'18", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, on right bank 1.2 miles downstream from Willow Creek, 2 miles upstream from Sulphur Creek Dam, and 11.5 miles southeast of Evanston.

DRAINAGE AREA.--64 sq mi, approximately.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 14.8 cfs (10,720 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 452 cfs June 5 (gage height, 4.88 ft); maximum gage height, 6.19 ft Mar. 11 (backwater from ice); minimum discharge, 0.24 cfs Aug. 6.
Period of record: Maximum discharge, 1,220 cfs Apr. 21, 1965 (gage height, 6.02 ft); maximum gage height, 6.19 ft Mar. 11, 1972 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for winter months, which are fair. Several diversions for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	6.0	5.0	5.5	7.0	32	45	56	9.9	1.2	.39
2	15	14	6.0	5.0	5.5	7.0	41	48	66	9.2	.68	.42
3	16	18	6.0	5.0	5.5	8.0	40	62	94	10	.68	.45
4	16	13	6.0	5.0	5.5	8.8	45	89	110	10	.57	.51
5	15	11	6.0	5.0	5.5	9.5	54	116	272	9.9	.54	.84
6	14	10	6.0	5.0	5.5	11	100	102	158	9.2	.51	1.6
7	14	10	6.0	5.0	5.5	12	78	121	113	7.4	.48	1.2
8	14	11	6.0	5.0	5.5	13	51	132	112	6.1	.42	.68
9	13	11	6.0	5.0	5.5	14	48	135	116	5.4	.39	.60
10	13	12	6.0	5.0	5.5	16	54	105	81	4.7	.36	.60
11	12	13	6.0	5.0	6.0	17	77	76	61	4.0	.33	.51
12	12	13	6.0	5.0	6.0	20	68	68	42	3.4	.30	.48
13	12	12	6.0	5.0	6.0	24	60	68	29	2.4	.30	.45
14	11	11	6.0	5.0	6.0	31	40	89	24	2.2	.30	.48
15	11	10	6.0	5.0	6.0	38	62	120	22	1.6	.35	.48
16	10	9.0	6.0	5.0	7.0	55	105	144	27	2.0	.39	.51
17	14	9.0	6.0	5.0	7.0	70	138	152	46	1.4	.42	.48
18	15	9.0	6.0	5.0	7.0	85	100	154	45	1.2	.42	.48
19	15	9.0	6.0	5.0	7.0	75	65	135	46	1.0	.45	.60
20	15	9.0	6.0	5.0	7.0	80	69	126	32	1.1	.42	.68
21	14	8.0	6.0	5.5	7.0	90	72	85	26	1.0	.39	.76
22	14	8.0	6.0	5.5	7.0	112	74	80	23	1.0	.36	.68
23	16	8.0	6.0	5.5	7.0	92	62	63	18	1.2	.33	.60
24	17	8.0	6.0	5.5	6.5	60	62	64	18	.84	.33	.60
25	27	8.0	6.0	5.5	6.5	57	66	62	24	.76	.33	.60
26	25	7.0	6.0	5.5	6.5	50	50	74	27	.84	.33	.60
27	21	7.0	6.0	5.5	6.5	37	42	65	20	.92	.33	.68
28	16	7.0	6.0	5.5	6.5	33	45	64	12	1.2	.30	.84
29	13	7.0	6.0	5.5	6.5	30	60	61	12	2.7	.36	1.0
30	15	7.0	6.0	5.5	-----	29	65	68	11	2.5	.36	1.2
31	16	-----	6.0	5.5	-----	30	-----	62	-----	1.7	.36	-----
TOTAL	463	304.0	186.0	160.5	180.0	1,221.3	1,925	2,835	1,743	116.76	13.29	20.00
MEAN	14.9	10.1	6.00	5.18	6.21	39.4	64.2	91.5	58.1	3.77	.43	.67
MAX	27	18	6.0	5.5	7.0	112	138	154	272	10	1.2	1.6
MIN	10	7.0	6.0	5.0	5.5	7.0	32	45	11	.76	.30	.39
AC-FT	918	603	369	318	357	2,420	3,820	5,620	3,460	232	26	40

CAL YR 1971 TOTAL 9,487.00 MEAN 26.0 MAX 215 MIN 1.7 AC-FT 18,820

WTR YR 1972 TOTAL 9,167.85 MEAN 25.0 MAX 272 MIN .30 AC-FT 18,180

BEAR RIVER BASIN

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.--6 years (1958-64), 11.2 cfs (8,110 acre-ft per year). 8 years (1964-72), 25.8 cfs (18,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 202 cfs June 5 (gage height, 3.69 ft); minimum daily, 3.5 cfs Feb. 6.

1958-64: Maximum discharge, 164 cfs June 29, 1959 (gage height, 3.67 ft); no flow at times each year.

1964-72: Maximum discharge, 343 cfs June 11, 1965 (gage height, 4.96 ft); no flow at times each year except 1972.

REMARKS.--Records good except those for period of no gage-height record, which are poor. 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	36	5.8	6.1	5.3	37	95	72	74	10	39	43
2	9.4	37	5.4	5.9	5.6	37	94	72	74	10	38	43
3	9.4	37	5.5	5.9	5.5	39	48	71	74	10	42	42
4	9.4	37	5.4	6.1	4.5	38	11	71	74	10	46	42
5	9.4	38	5.1	5.8	3.7	38	11	71	115	10	46	42
6	9.7	37	5.1	5.6	3.5	73	11	71	116	10	50	41
7	18	26	5.3	5.9	3.8	94	11	72	105	10	55	41
8	35	5.0	5.1	5.6	3.9	93	11	72	105	10	55	40
9	36	4.7	4.9	5.6	12	93	11	72	110	10	57	27
10	36	4.6	4.9	5.2	32	93	11	72	90	16	59	4.3
11	36	4.9	4.6	4.7	32	93	11	72	60	21	59	4.4
12	36	4.9	4.4	4.4	32	94	11	72	45	27	58	4.4
13	36	5.1	4.5	4.0	32	95	11	72	30	31	58	4.6
14	36	5.6	5.0	4.1	32	97	11	72	20	29	57	4.6
15	36	5.6	5.5	3.9	32	97	11	72	20	29	57	4.9
16	36	5.6	5.6	3.8	32	97	11	73	30	29	57	4.9
17	36	5.9	5.6	3.9	32	98	11	73	45	32	56	4.9
18	36	5.9	5.4	4.8	32	99	11	74	45	41	57	4.9
19	36	5.9	5.5	5.4	32	100	11	78	45	41	58	4.7
20	36	5.9	5.4	5.4	32	100	11	85	35	41	57	4.6
21	36	5.9	5.3	5.4	33	98	40	84	30	41	57	4.4
22	36	5.9	5.4	5.4	33	103	57	78	25	41	57	4.4
23	37	6.1	5.4	5.4	35	103	56	75	22	41	56	4.4
24	37	6.5	5.4	5.4	37	102	57	74	20	41	56	4.4
25	37	6.5	5.5	5.4	37	102	56	74	20	41	50	4.4
26	37	6.5	5.9	5.4	37	101	61	74	25	41	46	4.4
27	37	6.8	5.9	5.4	37	100	72	74	25	41	46	4.4
28	37	6.8	5.9	5.4	37	98	72	74	20	41	45	6.4
29	37	6.8	6.1	5.4	37	97	72	74	10	41	45	4.1
30	36	7.1	6.1	5.2	-----	96	72	74	10	41	44	4.1
31	36	-----	5.9	4.3	-----	95	-----	74	-----	41	44	-----
TOTAL	944.7	382.5	166.8	160.2	722.8	2,700	1,039	2,288	1,519	878	1,607	457.6
MEAN	30.5	12.8	5.38	5.17	24.9	87.1	34.6	73.8	50.6	28.3	51.8	15.3
MAX	37	38	6.1	6.1	37	103	95	85	116	41	59	43
MIN	9.4	4.6	4.4	3.8	3.5	37	11	71	10	10	38	4.1
AC-FT	1,870	759	331	318	1,430	5,360	2,060	4,540	3,010	1,740	3,190	908

CAL YR 1971 TOTAL 11,287.65 MEAN 30.9 MAX 120 MIN 0 AC-FT 22,390
WTR YR 1972 TOTAL 12,865.60 MEAN 35.2 MAX 116 MIN 3.5 AC-FT 25,520

NOTE.--No gage-height record June 7 to July 12.

BEAR RIVER BASIN

203

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.--24 years (1944-45, 1949-72), 10.0 cfs (7,240 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 145 cfs Apr. 17 (gage height, 5.86 ft); maximum gage height, 7.05 ft Mar. 12 (backwater from ice); no flow several days.
Period of record: Maximum discharge, 477 cfs Apr. 28, 1952 (gage height, 7.04 ft); maximum gage height, 7.05 ft Mar. 12, 1972 (backwater from ice); 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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.0	2.0	1.5	2.0	3.5	23	71	48	6.2	1.7	.22
2	.07	2.0	2.0	1.5	2.0	3.5	27	64	48	5.0	1.7	.58
3	.37	2.0	2.0	1.5	2.0	3.5	30	64	49	4.8	1.7	.71
4	.63	2.0	2.0	1.5	2.0	3.5	31	70	51	4.6	1.7	.67
5	.80	2.0	2.0	1.5	2.0	3.5	39	79	54	4.6	1.7	.98
6	3.1	2.0	2.0	1.5	2.5	4.0	64	105	56	5.2	1.5	1.3
7	6.2	2.0	2.0	1.5	2.5	4.0	86	121	56	7.8	1.2	2.2
8	2.8	2.0	2.0	1.5	2.5	4.0	76	124	55	12	.86	1.7
9	2.6	2.0	2.0	1.5	2.5	4.0	65	126	54	11	.63	1.0
10	2.5	2.0	2.0	1.5	2.5	7.0	59	126	51	10	.37	.63
11	2.4	2.0	2.0	1.5	3.0	13	71	114	40	10	.15	.76
12	2.4	2.0	2.0	1.5	3.0	16	103	73	30	9.8	.22	.67
13	2.4	2.0	2.0	1.5	3.0	20	112	69	30	9.6	.04	.67
14	2.8	2.0	2.0	1.5	3.0	24	75	71	27	9.6	.18	.63
15	3.1	2.0	2.0	1.5	3.0	29	70	82	16	9.4	.46	.67
16	3.3	2.0	2.0	1.5	3.0	37	78	116	15	8.8	.80	.67
17	3.6	2.0	2.0	1.5	3.0	52	124	117	15	12	1.0	.67
18	3.7	2.0	2.0	1.5	3.0	64	130	119	16	14	1.0	.38
19	3.6	2.0	2.0	1.5	3.0	60	78	120	16	9.3	.95	0
20	3.4	2.0	2.0	1.5	3.0	56	69	117	16	5.8	.58	.11
21	3.3	2.0	1.7	2.0	3.0	52	61	105	16	3.4	.46	.22
22	3.3	2.0	1.7	2.0	3.0	49	61	69	16	3.0	.18	.30
23	3.2	2.0	1.7	2.0	3.0	62	63	69	16	2.5	0	.11
24	3.3	2.0	1.7	2.0	3.0	54	66	68	15	2.1	0	0
25	3.3	2.0	1.7	2.0	3.0	42	71	66	15	1.8	.22	0
26	3.2	2.0	1.7	2.0	3.0	39	72	68	9.7	1.7	.33	0
27	3.4	2.0	1.7	2.0	3.0	38	72	72	2.5	1.7	.11	0
28	2.3	2.0	1.7	2.0	3.0	33	58	78	3.8	1.5	.04	.50
29	2.1	2.0	1.7	2.0	3.0	32	64	80	7.6	1.7	0	.63
30	2.0	2.0	1.7	2.0	-----	28	71	75	7.9	1.7	0	.98
31	2.0	-----	1.7	2.0	-----	23	-----	60	-----	1.6	.04	-----
TOTAL	81.17	60.0	58.7	52.0	79.5	863.5	2,059	2,758	852.5	192.2	19.82	17.96
MEAN	2.62	2.00	1.89	1.68	2.74	27.9	68.6	89.0	28.4	6.20	.64	.60
MAX	6.2	2.0	2.0	2.0	3.0	64	130	126	56	14	1.7	2.2
MIN	0	2.0	1.7	1.5	2.0	3.5	23	60	2.5	1.5	0	0
AC-FT	161	119	116	103	158	1,710	4,080	5,470	1,690	381	39	36

CAL YR 1971 TOTAL 6,318.84 MEAN 17.3 MAX 171 MIN 0 AC-FT 12,530
WTR YR 1972 TOTAL 7,094.35 MEAN 19.4 MAX 130 MIN 0 AC-FT 14,070

BEAR RIVER BASIN

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WYO.

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, on left bank at highway bridge, 6.5 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 and flashboard control. 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.--28 years (1944-72), 19.6 cfs (14,200 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 Saleratus basin, Utah.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	35	1.0	1.0		0	17	39	66	18	13	2.8
2	57	35	1.0	.90		0	18	39	74	15	13	3.1
3	60	35	1.0	.90		0	25	39	83	13	11	2.8
4	48	25	1.0	.80		0	45	41	89	11	6.4	3.3
5	37	5.0	1.0	.80		0	48	45	98	9.1	4.3	4.2
6	36	2.0	1.0	.70		0	51	46	69	11	4.3	19
7	36	1.0	1.0	.60		0	55	46	69	3.6	3.8	39
8	38	1.0	1.0	.50		0	51	39	75	.12	5.3	30
9	38	1.0	1.0	.40		0	48	24	82	0	6.4	33
10	38	1.0	1.0	.30		0	49	22	68	0	4.9	28
11	37	1.0	1.0	.20		0	54	21	45	0	2.4	17
12	39	1.0	1.0	.10		0	58	20	38	0	.36	20
13	39	1.0	1.0	0		0	57	19	31	4.0	.67	19
14	39	1.0	1.0	0		0	55	19	33	7.0	2.8	20
15	39	1.0	1.0	0		0	54	36	29	7.0	.58	19
16	40	1.0	1.0	0		0	56	67	43	6.9	1.4	18
17	45	1.0	1.0	0		0	55	60	60	6.8	2.4	19
18	51	1.0	1.0	0		2.4	48	56	49	6.7	2.5	18
19	48	1.0	1.0	0		.36	44	46	48	6.6	.67	22
20	48	1.0	1.0	0		.20	40	42	44	6.6	4.2	25
21	49	1.0	1.0	0		.12	39	38	41	8.6	4.5	26
22	44	1.0	1.0	0		.04	39	34	36	12	4.7	27
23	42	1.0	1.0	0		0	39	72	31	11	2.8	22
24	42	1.0	1.0	0		0	39	65	26	8.8	1.0	23
25	48	1.0	1.0	0		0	39	64	25	7.8	0	24
26	52	1.0	1.0	0		0	40	56	24	6.8	2.2	23
27	52	1.0	1.0	0		0	39	55	24	6.2	3.6	22
28	36	1.0	1.0	0		4.2	38	54	23	4.7	1.9	26
29	36	1.0	1.0	0		6.6	37	59	23	5.6	4.0	31
30	36	1.0	1.0	0		11	39	61	19	6.0	7.4	33
31	36	-----	1.0	0	-----	13	-----	66	-----	8.1	4.2	-----
TOTAL	1,333	161.0	31.0	7.20	0	37.92	1,316	1,390	1,465	218.02	126.68	618.2
MEAN	43.0	5.37	1.00	.23	0	1.22	43.9	44.8	48.8	7.03	4.09	20.6
MAX	60	35	1.0	1.0	0	13	58	72	98	18	13	39
MIN	36	1.0	1.0	0	0	0	17	19	19	0	0	2.8
AC-FT	2,640	319	61	14	0	75	2,610	2,760	2,910	432	251	1,230
CAL YR 1971	TOTAL 9,464.34		MEAN 25.9		MAX 115	MIN 0	AC-FT 18,770					
WTR YR 1972	TOTAL 6,704.02		MEAN 18.3		MAX 98	MIN 0	AC-FT 13,300					

BEAR RIVER BASIN

205

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.--11 years, 248 cfs (179,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,220 cfs June 6 (gage height, 5.50 ft); minimum, 3.4 cfs Aug. 2. 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. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	130	110	105	100	145	340	459	1,520	225	6.2	9.8
2	46	130	110	104	98	155	360	435	1,670	202	5.2	9.3
3	49	130	110	98	95	170	370	465	1,710	175	5.5	9.3
4	53	130	110	96	93	190	266	548	1,750	144	5.5	9.8
5	91	130	110	96	93	225	262	680	1,960	112	4.5	13
6	77	125	110	92	90	280	350	712	2,100	76	5.2	15
7	77	125	110	92	86	380	380	781	2,040	53	5.9	19
8	88	125	110	95	90	420	423	918	2,050	43	5.2	19
9	95	125	110	96	92	460	365	1,010	2,040	43	5.2	17
10	90	125	110	94	93	500	360	973	2,040	39	5.2	15
11	84	120	110	91	93	540	440	838	1,880	37	5.2	13
12	86	120	110	90	94	600	490	769	1,800	31	5.2	11
13	84	120	110	93	98	751	540	712	1,620	28	5.5	12
14	81	120	110	91	103	751	580	775	1,370	36	5.9	12
15	79	120	110	89	105	662	520	966	1,180	36	6.2	13
16	79	120	110	87	112	668	560	1,150	1,030	28	5.9	11
17	93	120	110	81	113	686	660	1,380	1,010	20	6.2	9.3
18	118	120	110	80	113	700	720	1,500	1,020	14	6.6	9.8
19	116	120	110	80	113	751	650	1,550	948	12	6.6	12
20	101	120	110	80	114	584	550	1,560	799	11	6.6	12
21	118	115	115	87	118	524	465	1,380	700	12	6.2	11
22	118	115	115	92	123	566	459	1,180	596	17	6.2	10
23	105	115	115	95	122	632	447	1,040	518	18	5.9	9.3
24	105	115	115	97	130	554	441	1,030	470	15	6.2	8.4
25	132	115	115	97	135	476	445	1,110	441	12	7.0	8.4
26	158	115	115	97	135	476	447	1,180	423	9.8	6.6	7.4
27	158	115	112	102	135	417	417	1,240	380	9.3	6.6	7.9
28	140	115	110	105	130	375	392	1,310	321	8.4	6.2	8.4
29	110	115	108	100	135	355	423	1,400	285	7.4	7.9	8.4
30	100	115	107	100	-----	330	482	1,400	262	6.6	8.4	7.9
31	115	-----	105	100	-----	321	-----	1,480	-----	7.0	9.3	-----
TOTAL	2,970	3,625	3,432	2,902	3,151	14,644	13,604	31,936	35,933	1,487.5	190.0	338.4
MEAN	95.8	121	111	93.6	109	472	453	1,030	1,198	48.0	6.13	11.3
MAX	158	130	115	105	135	751	720	1,560	2,100	225	9.3	19
MIN	34	115	105	80	86	145	262	435	262	6.6	4.5	7.4
AC-FT	5,890	7,190	6,810	5,760	6,250	29,050	26,980	63,350	71,270	2,950	377	671
CAL YR 1971	TOTAL 113,691.3			MEAN 311	MAX 1,930	MIN 3.6	AC-FT 225,500					
WTR YR 1972	TOTAL 114,212.9			MEAN 312	MAX 2,100	MIN 4.5	AC-FT 226,500					

BEAR RIVER BASIN

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, Wyoming, in gate house on dam, 5.6 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 recorded, 31,690 acre-ft May 30, 31 (gage height, 37.5 ft); minimum, 11,000 acre-ft Sept. 28-30.
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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14,700		24,860					29,370				11,520
2			25,010					29,370				11,270
3			25,170									11,270
4			25,340									11,270
5			25,500									11,270
6	14,590											11,270
7	14,700									22,930		11,270
8	14,800									21,700		11,270
9	14,900	20,270								20,000		11,270
10	14,900	20,360								19,480		11,360
11	15,110	20,700								19,000		11,360
12	15,110	21,030								18,760		11,360
13	15,220	21,460								18,510		11,360
14	15,340	21,740								18,510	17,130	11,360
15	15,450	22,020	27,020							18,390	17,020	11,360
16	15,570	22,170								18,260	17,020	11,270
17	15,670	22,450								18,130	17,020	11,270
18	15,780	22,590								18,000	17,020	11,270
19		22,740									16,920	11,180
20		22,890		28,120							16,920	11,180
21		23,160									17,020	11,180
22		23,290									16,920	11,180
23		23,520									16,810	11,090
24		23,640									16,810	11,090
25		23,760									16,710	11,090
26		23,890					29,370				16,710	11,090
27		24,140					29,370				16,240	11,090
28		24,260					29,370				15,220	11,000
29		24,560			28,560		29,370				14,260	11,000
30		24,710			-----		29,370	31,690	23,640		13,270	11,000
31	18,510	-----	27,550	28,260	-----	28,860	-----	31,690	-----	17,550	12,410	-----
MAX												11,520
MIN												11,000
(†)	28.6	33.3	35.0	35.5	35.7	35.9	36.2	37.5	32.5	27.8	22.9	21.3
(*)	+3,810	+6,200	+2,840	+710	+300	+300	+510	+2,320	-8,050	-6,090	-5,140	-1,410
CAL YR 1971.....				+4,030								
WTR YR 1972.....				-3,700								

† Gage height, in feet, at 2400 of last day of month.

* Change in contents, in acre-feet.

207

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.

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

AVERAGE DISCHARGE.--11 years, 242 cfs (175,300 acre-ft per year).

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. Water quality records for the current year are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	29	34	105	100	147	334	436	1,470	543	7.0	480
2	25	29	34	105	98	154	339	433	1,550	540	6.8	163
3	26	29	34	100	96	170	354	432	1,630	539	7.0	13
4	26	29	34	97	95	189	332	453	1,720	536	6.6	12
5	26	30	35	97	93	227	298	517	1,780	531	7.4	12
6	26	30	34	91	91	319	295	603	2,070	527	6.7	1
7	27	29	35	94	87	387	372	650	2,270	524	7.9	12
8	27	31	35	96	91	416	418	735	2,460	520	8.6	12
9	27	31	35	98	90	442	391	831	2,390	515	8.6	12
10	27	31	35	96	94	473	369	908	2,340	510	8.2	12
11	27	31	35	92	94	520	386	879	2,140	291	7.8	13
12	27	32	36	89	96	592	460	807	1,780	71	7.5	13
13	27	32	36	95	99	654	533	759	1,680	71	7.9	13
14	27	32	36	91	104	698	558	730	1,530	71	7.5	13
15	27	32	36	89	108	687	518	790	1,340	71	6.3	13
16	27	30	36	88	113	661	523	915	1,130	71	6.5	13
17	27	32	36	76	114	657	612	1,070	993	71	6.9	13
18	27	32	36	79	115	667	713	1,260	994	71	6.2	13
19	27	30	36	78	117	681	686	1,400	971	71	6.8	12
20	27	32	37	87	116	658	604	1,480	894	70	7.0	12
21	27	33	37	87	118	581	535	1,480	792	42	13	21
22	28	33	44	95	127	542	490	1,320	697	24	20	30
23	28	33	71	96	125	558	462	1,180	606	24	19	29
24	28	33	86	99	134	576	439	1,090	535	23	20	29
25	28	33	105	98	137	526	426	1,070	503	23	20	29
26	28	33	109	100	136	488	434	1,060	461	23	20	30
27	28	33	109	104	133	462	426	1,150	424	23	227	31
28	28	33	110	105	132	422	411	1,220	379	23	516	31
29	29	33	109	98	138	390	401	1,300	597	23	508	31
30	29	34	106	102	-----	363	416	1,360	621	23	498	31
31	29	-----	105	102	-----	345	-----	1,420	-----	16	490	-----
TOTAL	841	944	1,696	2,929	3,191	14,652	13,535	29,738	38,747	6,481	2,496.2	1,159
MEAN	27.1	31.5	54.7	94.5	110	473	451	959	1,292	209	80.5	38.6
MAX	29	34	110	105	138	698	713	1,480	2,460	543	516	480
MIN	24	29	34	76	87	147	295	432	379	16	6.2	11
AC-FT	1,670	1,870	3,360	5,810	6,330	29,060	26,850	58,990	76,850	12,860	4,950	2,300
CAL YR 1971	TOTAL 105,819.0	MEAN 290	MAX 1,950	MIN 1.4	AC-FT 209,900							
WTR YR 1972	TOTAL 116,409.2	MEAN 318	MAX 2,460	MIN 6.2	AC-FT 23							

BEAR RIVER BASIN

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.--29 years, 199 cfs (144,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,280 cfs June 12 (gage height, 7.81 ft); minimum daily, 55 cfs Sept. 10.

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). Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	90	95	145	130	175	546	622	916	306	94	117
2	113	105	95	143	130	250	529	625	1,050	289	94	120
3	109	115	95	142	130	340	524	635	1,180	282	91	121
4	113	110	95	140	130	410	522	638	1,370	282	90	96
5	110	110	95	140	130	520	519	638	1,550	280	87	75
6	106	110	95	130	130	690	512	660	1,610	254	90	68
7	105	110	95	130	130	840	490	744	1,660	248	87	65
8	103	110	95	130	130	1,050	493	801	1,730	254	80	60
9	103	110	95	130	130	1,180	541	949	1,880	246	78	58
10	102	110	95	130	130	1,200	555	926	2,130	236	78	55
11	102	110	85	125	140	1,190	558	1,020	2,260	228	76	56
12	102	110	85	125	140	1,130	590	1,080	2,260	227	74	64
13	102	110	85	125	140	1,140	622	1,090	2,210	192	72	65
14	102	110	85	125	140	1,180	690	1,060	2,140	159	72	79
15	102	110	85	125	140	1,190	768	980	2,020	144	68	80
16	102	110	85	115	150	1,180	798	916	1,930	144	65	80
17	105	110	85	115	150	1,150	765	786	1,830	117	64	80
18	110	110	85	115	150	1,100	768	798	1,640	110	63	80
19	110	110	85	115	150	1,050	852	852	1,400	98	61	83
20	109	110	85	115	150	980	912	916	1,130	150	63	86
21	107	110	95	120	160	964	894	849	870	151	63	84
22	112	110	85	130	160	926	822	870	786	150	61	83
23	113	110	85	130	160	840	741	933	620	138	59	83
24	114	110	85	130	160	765	705	988	481	126	60	83
25	114	110	95	130	160	765	*693	888	490	114	63	86
26	113	105	110	130	170	762	663	741	465	114	60	88
27	117	105	130	130	170	708	660	638	427	109	59	95
28	100	105	140	130	170	663	645	588	393	109	59	105
29	88	105	145	130	170	632	640	650	370	109	98	107
30	90	105	150	130	-----	600	630	735	363	96	121	107
31	90	-----	150	130	-----	572	-----	822	-----	92	110	-----
TOTAL	3,281	3,255	3,010	3,980	4,230	25,132	19,647	25,338	39,161	5,554	2,360	2,509
MEAN	106	109	97.1	128	146	843	655	817	1,305	179	76.1	83.6
MAX	117	115	150	145	170	1,200	912	1,090	2,260	306	121	121
MIN	88	90	85	115	130	175	490	588	363	92	59	55
AC-FT	6,510	6,460	5,970	7,890	8,390	51,830	38,970	50,260	77,680	11,020	4,680	4,980

CAL YR 1971 TOTAL 120,234 MEAN 329 MAX 1,480 MIN 31 AC-FT 238,500
WTR YR 1972 TOTAL 138,457 MEAN 378 MAX 2,260 MIN 55 AC-FT 274,600

BEAR RIVER BASIN

209

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, 1,690 cfs June 13 (gage height, 9.40 ft); minimum daily, 43 cfs Aug. 31.
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 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								672	592	427	118	56
2								660	682	413	117	65
3								668	783	396	118	70
4								670	861	398	114	76
5								675	1,060	405	111	73
6								689	1,250	411	112	64
7								732	1,330	361	114	59
8								806	1,310	364	108	155
9								929	1,310	357	104	96
10								915	1,340	338	100	83
11								945	1,490	320	96	77
12								984	1,630	296	92	77
13								1,010	1,680	291	91	82
14								1,020	1,680	256	86	88
15								1,010	1,670	208	85	102
16								975	1,630	187	78	103
17								912	1,580	210	79	102
18								819	1,540	185	82	102
19								832	1,480	179	78	104
20								806	1,400	185	77	103
21								742	1,230	208	77	104
22								806	944	207	77	102
23								819	806	204	74	100
24								829	694	175	73	99
25								848	610	159	76	99
26								822	581	150	82	102
27								732	522	150	81	104
28								575	491	142	68	110
29								555	451	140	59	120
30								590	435	132	59	123
31		-----			-----		-----	579	-----	120	43	-----
TOTAL								24,626	33,062	7,974	2,769	2,800
MEAN								794	1,102	257	89.3	93.3
MAX								1,020	1,680	427	118	155
MIN								555	435	120	43	56
AC-FT								48,850	65,580	15,820	5,490	5,550

THE SEASON AC-FT 141,300

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.

AVERAGE DISCHARGE.--30 years, 198 cfs (143,500 acre-ft per year).

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	144	108	81	78	68	67	87	311	1,360	670	268	165
2	138	106	77	78	68	68	92	308	1,400	646	265	165
3	134	106	82	72	68	69	95	347	1,380	618	257	159
4	134	103	78	64	71	65	100	459	1,360	586	245	154
5	132	105	78	70	73	65	106	582	1,350	560	237	165
6	130	93	82	68	76	67	140	628	1,410	538	234	194
7	128	98	82	66	81	68	156	722	1,420	512	230	163
8	126	100	80	66	74	65	161	775	1,400	504	230	152
9	124	98	75	66	74	64	174	722	1,340	487	224	150
10	122	98	75	60	70	68	185	665	1,340	471	220	146
11	122	98	80	60	71	69	200	679	1,260	459	220	142
12	121	100	84	53	70	71	207	688	1,230	440	217	140
13	119	103	78	70	72	74	194	741	1,180	428	220	138
14	119	100	78	66	72	80	174	830	1,120	417	217	138
15	122	96	78	66	72	80	171	959	1,060	402	214	134
16	124	95	82	70	71	80	182	1,080	1,060	392	212	132
17	130	92	84	70	68	83	207	1,140	1,070	381	207	128
18	128	84	84	70	72	92	198	1,140	1,040	374	203	126
19	121	89	84	80	71	98	187	1,140	954	357	203	134
20	119	93	84	83	70	95	176	1,230	876	350	196	132
21	117	90	84	84	68	93	171	1,200	835	347	194	126
22	115	90	86	78	68	98	169	1,120	825	330	189	124
23	113	89	87	69	67	105	174	991	815	321	187	122
24	115	89	84	71	67	101	196	912	820	311	187	121
25	115	89	84	72	64	103	232	886	815	301	185	122
26	113	84	84	74	63	96	227	922	736	301	180	121
27	117	92	78	72	67	89	245	948	693	295	174	122
28	115	89	74	70	67	87	292	1,030	670	289	169	126
29	105	89	78	68	68	90	360	1,130	670	277	167	119
30	108	86	78	68	-----	87	360	1,210	674	271	171	117
31	110	-----	78	68	-----	83	-----	1,280	-----	271	165	-----
TOTAL	3,780	2,852	2,501	2,170	2,031	2,520	5,618	26,775	32,163	12,906	6,487	4,177
MEAN	122	95.1	80.7	70.0	70.0	81.3	187	864	1,072	416	209	139
MAX	144	108	87	84	81	105	360	1,280	1,420	670	268	194
MIN	105	84	74	53	63	64	87	308	670	271	165	117
AC-FT	7,500	5,660	4,960	4,300	4,030	5,000	11,140	53,110	63,800	25,600	12,870	8,290
WTR YR 1971	TOTAL	115,334	MEAN	316	MAX	1,570	MIN	62	AC-FT	228,800		
CAL YR 1972	TOTAL	103,980	MEAN	284	MAX	1,420	MIN	53	AC-FT	206,200		

211

LOCATION.--Lat 42°07'34", long 110°58'23", in SE¹/₄NE¹/₄ sec.28, T.25 N., R.119 W., Lincoln County, 1.1 miles upstream from Wyman Dam, 2.8 miles northwest of Cokeville, and 3.8 miles downstream from Smiths Fork.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (from river-profile map).

AVERAGE DISCHARGE.--18 years, 427 cfs (309,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,130 cfs June 17 (gage height, 6.47 ft); minimum, 182 cfs Dec. 23.

Period of record: Maximum discharge, 3,780 cfs Mar. 26, 1956 (gage height, 7.54 ft); minimum, 63 cfs Nov. 2, 1961.

REMARKS.--Records good except those for winter periods, which are fair. Natural flow of stream affected by diversion for irrigation and return flow from irrigated areas.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	284	250	270	250	370	809	1,260	1,830	1,150	380	227
2	318	271	250	280	250	346	802	1,230	2,000	1,100	360	247
3	314	276	250	280	250	380	809	1,240	2,170	1,070	360	251
4	305	263	250	280	250	420	829	1,300	2,280	1,060	355	263
5	301	260	250	280	250	465	836	1,420	2,400	1,040	341	260
6	305	250	243	270	250	566	890	1,510	2,620	1,050	332	265
7	301	235	240	270	250	688	959	1,620	2,740	945	332	260
8	297	260	240	270	250	776	938	1,780	2,840	917	318	263
9	288	248	240	270	250	863	911	1,920	2,900	870	305	260
10	288	280	240	270	250	938	959	1,940	2,880	870	301	288
11	284	271	230	260	250	966	1,020	1,920	2,890	829	280	276
12	280	284	220	260	250	1,540	1,090	1,940	2,940	788	276	259
13	276	301	220	260	250	2,680	1,130	1,980	3,010	750	271	259
14	276	305	220	260	250	2,280	1,120	2,040	3,070	700	267	255
15	276	305	220	260	250	1,830	1,180	2,120	3,110	628	263	271
16	276	305	220	260	300	1,670	1,300	2,210	3,120	572	259	280
17	284	263	220	260	300	1,600	1,390	2,280	3,120	550	255	276
18	297	220	220	260	300	1,550	1,340	2,250	3,090	538	251	267
19	297	297	220	260	300	1,540	1,310	2,160	3,000	495	255	280
20	288	297	220	260	300	1,490	1,360	2,190	2,840	485	255	276
21	276	263	220	265	300	1,440	1,430	2,110	2,670	511	251	263
22	280	280	220	276	300	1,410	1,420	2,120	2,430	506	251	259
23	280	267	220	275	300	1,390	1,380	2,100	2,100	495	247	259
24	280	267	216	260	300	1,310	1,340	2,000	1,890	475	247	255
25	288	276	220	250	320	1,200	1,330	1,920	1,780	440	247	255
26	288	239	220	250	310	1,120	1,260	1,900	1,600	420	255	255
27	292	260	220	250	318	1,070	1,140	1,850	1,430	420	251	259
28	314	240	220	250	310	986	1,220	1,730	1,330	420	255	271
29	247	250	220	250	332	924	1,280	1,600	1,320	410	243	276
30	227	250	230	250	-----	877	1,300	1,710	1,200	410	263	280
31	267	-----	250	250	-----	836	-----	1,790	-----	390	263	-----
TOTAL	8,904	8,107	7,119	8,166	8,040	35,521	34,082	57,140	72,510	21,304	8,789	8,015
MEAN	287	270	230	263	277	1,146	1,136	1,843	2,417	687	284	267
MAX	318	305	250	280	332	2,680	1,430	2,280	3,120	1,150	380	360
MIN	227	220	216	250	250	346	802	1,230	1,200	390	243	227
AC-FT	17,660	16,080										

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WYO.

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.

DRAINAGE AREA.--2,490 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--35 years, 420 cfs (304,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,290 cfs June 18 (gage height, 8.64 ft); minimum daily, 218 cfs Sept. 1.

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. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	292	260	280	255	380	892	1,260	1,740	1,260	338	218
2	319	285	260	290	255	360	888	1,240	1,840	1,210	326	224
3	310	280	260	290	255	400	892	1,210	1,980	1,180	317	226
4	305	280	260	290	255	440	904	1,220	2,080	1,140	319	228
5	303	270	260	290	255	500	912	1,290	2,170	1,120	317	240
6	303	260	250	280	255	600	928	1,400	2,410	1,120	299	263
7	299	245	250	280	255	710	996	1,480	2,620	1,020	294	255
8	294	270	250	280	255	790	996	1,660	2,810	964	290	238
9	288	290	250	280	255	880	944	1,850	3,000	896	283	299
10	285	285	250	280	255	950	964	1,970	3,030	872	263	263
11	279	280	240	265	255	1,050	980	1,920	3,020	828	257	253
12	277	295	230	265	255	1,600	1,120	1,920	3,040	787	263	242
13	272	310	230	265	255	2,700	1,200	1,920	3,080	743	263	238
14	270	310	230	265	255	2,400	1,210	1,960	3,150	708	263	238
15	277	310	230	265	275	1,890	1,210	2,020	3,210	629	261	248
16	285	310	230	265	300	1,680	1,260	2,130	3,240	567	253	274
17	299	270	230	265	310	1,620	1,350	2,210	3,250	523	248	272
18	308	240	230	265	310	1,600	1,350	2,280	3,270	511	240	270
19	305	305	230	265	310	1,580	1,330	2,250	3,240	478	238	272
20	299	305	230	265	310	1,540	1,350	2,250	3,120	458	240	266
21	288	280	225	260	310	1,520	1,390	2,220	2,890	470	236	255
22	290	285	225	260	310	1,480	1,400	2,180	2,600	475	236	253
23	288	280	225	260	310	1,450	1,360	2,170	2,240	452	234	251
24	290	275	225	260	310	1,400	1,320	2,080	1,980	447	234	248
25	294	280	225	260	310	1,320	1,280	1,960	1,880	416	234	251
26	294	250	225	260	320	1,240	1,250	1,900	1,730	392	238	257
27	301	270	225	260	320	1,180	1,160	1,840	1,560	384	236	255
28	321	250	225	260	320	1,110	1,170	1,740	1,440	384	236	261
29	285	260	225	260	340	1,030	1,230	1,600	1,350	369	240	266
30	240	260	240	260	-----	984	1,260	1,630	1,300	362	230	266
31	275	-----	250	260	-----	928	-----	1,710	-----	355	251	-----
TOTAL	9,057	8,382	7,375	8,350	8,235	37,312	34,496	56,470	74,270	21,520	8,177	7,590
MEAN	292	279	238	269	284	1,204	1,150	1,822	2,476	694	264	253
MAX	321	310	260	290	340	2,700	1,400	2,280	3,270	1,260	338	299
MIN	240	240	225	260	255	360	888	1,210	1,300	355	230	218
AC-FT	17,960	16,630	14,630	16,560	16,330	74,010	68,420	112,000	147,300	42,680	16,220	15,050
CAL YR 1971	TOTAL 287,171		MEAN 787		MAX 2,800		MIN 205		AC-FT 569,600			
WTR YR 1972	TOTAL 281,234		MEAN 768		MAX 3,270		MIN 218		AC-FT 557,800			

BEAR RIVER BASIN

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10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, on right bank 1.3 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.--23 years, 54.6 cfs (39,560 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 806 cfs May 7 (gage height, 3.51 ft); minimum, 14 cfs Mar. 7. 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. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	25	23	21	20	20	42	315	299	90	49	32
2	32	25	23	21	20	20	50	320	300	88	48	32
3	31	24	23	21	20	26	61	362	289	87	47	31
4	29	24	23	21	20	25	67	455	266	86	45	30
5	28	24	23	21	20	22	71	527	252	83	44	38
6	27	24	22	20	20	23	127	580	254	81	43	52
7	27	23	22	20	22	24	123	731	243	80	42	36
8	26	23	22	20	23	69	115	701	243	77	41	32
9	26	23	22	20	25	89	128	641	217	75	41	30
10	26	23	22	20	21	30	139	569	203	73	38	31
11	25	25	22	20	18	24	174	560	193	72	38	29
12	25	27	22	20	18	25	198	548	179	69	37	28
13	25	29	22	20	18	28	153	551	168	67	39	28
14	25	27	22	20	18	36	137	599	160	66	38	28
15	28	25	22	20	21	35	143	649	152	65	37	27
16	28	24	22	20	18	36	166	679	157	63	37	27
17	34	23	22	20	18	38	195	680	144	62	37	26
18	30	21	22	20	18	42	175	646	144	61	36	26
19	28	20	22	20	18	45	161	598	140	59	37	32
20	26	22	22	20	18	43	155	564	127	63	36	30
21	26	23	22	20	18	43	158	513	120	64	34	27
22	25	23	23	20	81	48	165	471	119	59	34	26
23	25	24	24	20	19	58	174	427	125	57	34	26
24	25	22	22	20	18	54	214	401	134	55	34	25
25	26	22	22	20	18	55	243	381	147	55	34	26
26	25	22	24	20	18	52	231	362	117	54	33	26
27	27	24	22	20	20	56	262	346	108	56	31	27
28	26	23	20	20	19	60	299	335	102	53	31	30
29	25	24	21	20	24	41	374	329	97	51	31	26
30	25	24	21	20	-----	39	363	315	93	50	31	26
31	25	-----	21	20	-----	39	-----	306	-----	50	31	-----
TOTAL	840	712	687	625	629	1,245	5,063	15,461	5,292	2,071	1,168	890
MEAN	27.1	23.7	22.2	20.2	21.7	40.2	169	499	176	66.8	37.7	29.7
MAX	34	29	24	21	81	89	374	731	300	90	49	52
MIN	25	20	20	20	18	20	42	306	93	50	31	25
AC-FT	1,670	1,410	1,360	1,240	1,250	2,470	10,040	30,670	10,500	4,110	2,320	1,770

CAL YR 1971 TOTAL 39,075 MEAN 107 MAX 913 MIN 13 AC-FT 77,510
WTR YR 1972 TOTAL 34,683 MEAN 94.8 MAX 731 MIN 18 AC-FT 68,790

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.HT.	DISCHARGE
4-12	0200	2.09	232
5- 7	2300	3.51	806

SNAKE RIVER MAIN STEM

13010500 JACKSON LAKE NEAR MORAN, WYO.

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¼SW¼ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, near left end of spillway over dam on Snake River, 4.3 miles west of Moran, and at mile 1,000.2.

DRAINAGE AREA.--824 sq mi.

PERIOD OF RECORD.--July 1908 to current year (1908-10 fragmentary). Prior to October 1968, published as "at Moran."

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (Bureau of Reclamation datum). Datum of Geological Survey, unadjusted, is 2.08 ft lower. Prior to June 1, 1941, at site 300 ft upstream at same datum.

EXTREMES.--Current year: Maximum contents, 848,200 acre-ft July 9-11 (elevation, 6,769.05 ft); minimum, 424,100 acre-ft May 16 (elevation, 6,751.39 ft).
Period of record: Maximum contents, 859,530 acre-ft July 11, 1965 (elevation, 6,769.49 ft); no usable contents for several days during period August to October 1919.

REMARKS.--Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft. This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-ft. The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft. In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft between elevations 6,730 (top of baffles to sluices) and 6,769 ft (top of spillway gates). Reservoir is used to store water for irrigation in Snake River valley, Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table furnished by Bureau of Reclamation.

REVISIONS.--WSP 1217: Drainage area.

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

6,750	392,900
6,760	624,400
6,770	872,600

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	599,800	599,800	606,000	621,700	630,800	629,900	586,200	493,900	472,000	835,800	808,600	690,900
2	601,200	600,500	606,000	622,000	630,400	630,100	584,300	486,700	486,900	838,800	807,400	685,800
3	601,400	600,500	605,700	622,200	629,900	631,600	582,700	479,300	505,400	839,600	804,800	680,700
4	601,400	600,500	606,000	622,200	629,600	631,300	580,800	472,700	522,400	841,900	802,100	675,800
5	601,400	600,700	607,200	622,400	629,400	630,600	579,100	466,500	540,100	844,200	799,300	670,700
6	601,400	600,500	608,400	622,000	629,200	629,900	577,500	461,500	561,200	845,400	796,300	667,000
7	601,700	600,500	609,100	621,700	629,200	628,900	576,300	457,400	578,600	846,000	793,300	663,400
8	601,700	600,500	609,100	621,700	629,200	627,000	574,600	453,700	597,600	847,500	790,000	658,600
9	601,700	600,500	609,600	622,200	629,400	625,300	573,000	450,800	620,500	848,200	786,500	654,500
10	601,700	600,500	609,800	622,700	629,400	623,400	571,300	446,500	641,000	848,200	783,000	651,600
11	601,700	600,700	609,800	622,900	629,200	621,500	569,900	441,700	658,300	848,200	779,700	648,600
12	601,700	600,700	610,000	622,900	628,900	619,600	570,200	436,700	677,200	848,000	776,700	645,000
13	601,400	601,200	610,000	622,400	629,400	617,900	569,000	432,000	694,800	847,500	773,400	640,500
14	601,900	601,200	610,500	622,000	630,400	616,200	567,800	427,700	709,500	847,000	771,200	635,900
15	602,100	601,900	611,200	622,200	629,900	614,600	566,200	425,000	722,600	846,200	768,200	631,100
16	602,400	601,900	611,900	622,200	630,400	612,400	564,500	424,100	734,900	844,700	763,700	626,300
17	602,600	601,700	612,200	622,000	630,100	610,700	562,800	425,200	751,800	843,200	760,000	621,500
18	603,100	601,700	612,400	622,200	630,100	608,800	561,000	427,400	764,000	841,100	756,000	616,700
19	603,300	601,900	612,900	623,900	630,400	607,400	558,100	429,900	774,700	839,300	752,300	612,900
20	603,100	601,900	613,100	625,600	629,900	606,000	554,600	433,300	783,200	836,300	748,300	610,300
21	603,100	602,100	613,600	628,000	629,600	604,300	550,800	436,200	789,700	836,800	743,800	606,700
22	602,600	602,100	613,800	630,600	629,200	602,600	545,700	439,000	794,800	835,800	738,900	603,100
23	602,400	602,100	615,500	632,500	629,200	600,700	540,600	440,500	801,300	833,000	733,900	599,500
24	602,100	602,400	617,700	633,500	629,400	599,300	535,600	440,500	809,900	829,200	729,500	596,200
25	601,900	602,600	618,400	633,200	628,900	598,300	529,800	440,100	816,700	826,900	724,800	592,900
26	601,700	602,600	620,500	632,800	628,400	596,900	524,000	440,100	822,000	824,300	720,100	589,300
27	601,700	605,000	620,800	632,500	628,400	595,200	518,200	440,100	823,800	821,500	715,400	587,700
28	601,200	605,500	621,000	632,300	628,900	593,400	511,900	442,100	824,800	819,000	710,800	587,900
29	601,000	605,700	621,000	631,800	630,400	591,500	506,600	446,000	826,600	816,500	705,400	586,200
30	600,500	605,500	621,200	631,600	-----	590,000	500,600	451,700	830,900	814,000	700,700	584,800
31	600,000	-----	621,500	631,100	-----	588,100	-----	460,100	-----	811,400	695,800	-----
MAX	603,300	605,700	621,500	633,500	630,800	631,600	586,200	493,900	830,900	848,200	808,600	690,900
MIN	599,800	599,800	605,700	621,700	628,400	588,100	500,600	424,100	472,000	811,400	695,800	584,800
(†)	6,758.98	6,759.21	6,759.88	6,760.28	6,760.25	6,758.48	6,754.74	6,752.98	6,768.35	6,767.10	6,762.95	6,758.34
(‡)	+1,700	+5,500	+16,000	+9,600	-700	-42,300	-87,500	-40,500	+370,800	-19,500	-115,600	-111,000
CAL YR 1971	+ 42,100											
WTR YR 1972	+ -13,500											

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

SNAKE RIVER MAIN STEM

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13011000 SNAKE RIVER NEAR MORAN, WYO.

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, on left bank, 1,000 ft downstream from Jackson Lake Dam, 4.1 miles west of Moran, and at mile 1,000.1.

DRAINAGE AREA.--824 sq mi. Mean altitude, 8,040 ft.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft above mean sea level, unadjusted. Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 miles downstream at different datums.

AVERAGE DISCHARGE.--69 years, 1,438 cfs (1,042,000 acre-ft per year); 15-year base period (1952-67), 1,392 cfs.

EXTREMES.--Current year: Maximum discharge, 5,200 cfs May 30 (gage height, 7.44 ft); minimum, 408 cfs Oct. 2 (gage height, 2.64 ft).
Period of record: Maximum discharge, 15,100 cfs June 12, 1918 (gage height, 10.41 ft, site and datum then in use); minimum, 0.30 cfs Oct. 26, 27, 28, 1969 (gage height, 0.89 ft).
Flood during early June 1894 was considerably higher than that of June 12, 1918.

REMARKS.--Records excellent. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Gage-height record furnished by Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 1217: 1944(m), drainage area. WSP 1347: 1906-10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	624	548	466	476	591	993	1,490	4,860	2,060	3,340	2,880	3,440
2	652	454	466	479	591	988	1,490	4,830	1,490	3,590	2,890	3,420
3	707	457	467	480	592	989	1,480	4,840	1,050	3,120	2,870	3,400
4	707	452	467	481	595	990	1,480	4,860	1,060	2,630	2,850	3,390
5	707	446	467	524	597	990	1,480	4,840	1,080	2,800	2,840	3,330
6	703	445	467	578	596	981	1,490	4,820	1,090	2,910	2,830	3,380
7	698	444	469	584	598	1,090	1,480	4,790	1,110	2,640	2,920	3,360
8	696	450	470	584	597	1,360	1,480	4,770	1,120	2,880	2,970	3,350
9	696	449	471	584	597	1,540	1,480	4,800	1,130	3,080	2,960	3,340
10	696	449	471	586	596	1,540	1,480	4,900	1,130	3,080	2,950	3,340
11	693	449	467	585	597	1,540	1,480	5,060	1,150	3,080	2,940	3,330
12	691	449	467	584	595	1,540	1,480	5,030	1,170	3,070	2,940	3,310
13	690	453	467	582	591	1,540	1,480	5,000	1,180	3,140	2,930	3,300
14	685	453	467	586	593	1,540	1,480	5,070	1,230	3,130	2,920	3,290
15	686	453	467	590	592	1,540	1,480	5,130	1,250	3,150	3,120	3,270
16	688	452	468	591	591	1,540	1,480	5,120	1,800	3,140	3,250	3,250
17	690	453	471	592	590	1,530	1,610	5,110	2,650	3,130	3,330	3,240
18	689	453	471	591	588	1,530	2,210	5,120	3,090	3,150	3,220	2,940
19	728	453	471	594	586	1,530	2,430	5,130	3,210	3,140	3,210	2,550
20	755	453	471	589	586	1,530	2,430	5,150	3,550	3,140	3,250	2,450
21	751	453	471	579	586	1,530	2,850	5,160	3,560	3,160	3,400	2,450
22	751	457	471	579	584	1,530	3,470	5,160	3,580	3,150	3,460	2,440
23	749	458	471	579	586	1,530	3,460	5,170	3,590	3,140	3,450	2,430
24	745	457	471	582	716	1,520	3,660	5,160	3,620	3,130	3,440	2,420
25	750	455	471	586	923	1,520	3,880	5,150	3,830	3,120	3,410	2,410
26	748	453	471	586	990	1,520	3,860	5,140	4,070	3,120	3,400	2,400
27	741	459	467	586	990	1,510	4,110	5,140	4,010	3,120	3,390	2,120
28	710	458	467	586	993	1,510	4,270	5,150	3,510	3,020	3,440	1,730
29	641	458	467	586	994	1,510	4,250	5,170	2,930	2,890	3,480	1,530
30	646	458	472	590	-----	1,510	4,550	4,740	2,950	2,890	3,480	1,460
31	646	-----	476	591	-----	1,500	-----	3,210	-----	2,890	3,470	-----
TOTAL	21,759	13,681	14,543	17,670	19,221	43,511	70,750	153,580	68,250	94,970	97,890	86,210
MEAN	702	456	469	570	663	1,404	2,358	4,954	2,275	3,064	3,158	2,874
MAX	755	548	476	594	994	1,540	4,550	5,170	4,070	3,590	3,480	3,440
MIN	624	444	466	476	584	981	1,480	3,210	1,050	2,630	2,830	1,460
AC-FT	43,160	27,140	28,850	35,050	38,120	86,300	140,300	304,600	135,400	188,400	194,200	171,000

CAL YR 1971 TOTAL 741,088 MEAN 2,030 MAX 6,930 MIN 444 AC-FT 1,470,000
WTR YR 1972 TOTAL 702,035 MEAN 1,918 MAX 5,170 MIN 444 AC-FT 1,392,000

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WYO.

LOCATION.--Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec.23, T.45 N., R.114 W., Teton County, Grand Teton National Park, on right bank 6 ft upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5.

DRAINAGE AREA.--160 sq mi. Mean altitude, 8,160 ft.

PERIOD OF RECORD.--July to November 1906 (gage heights only), July 1917 to September 1918 (no winter records), September 1944 to current year. Published as "near Moran" prior to October 1968.

GAGE.--Water-stage recorder. Altitude of gage is 6,720 ft (from topographic map). July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mile downstream at different datum. July 20, 1917, to Sept. 30, 1918, nonrecording gage at site 0.1 mile downstream at different datum. Sept. 23, 1944, to Nov. 13, 1959, at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--28 years (1944-72), 269 cfs (22.83 inches per year, 194,900 acre-ft per year); 15-year base period (1952-67), 258 cfs.

EXTREMES.--Current year: Maximum discharge, 3,190 cfs June 2 (gage height, 6.28 ft); minimum daily, 40 cfs Jan. 30 to Feb. 6.

Period of record: Maximum discharge, 3,470 cfs May 21, 1954; maximum gage height, 6.35 ft June 23, 1971; minimum daily discharge, 22 cfs Nov. 18, 1969.

REMARKS.--Records good except those for December to April, which are fair. No diversion or regulation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	65	70	50	40	62	76	260	2,200	790	222	108
2	106	68	70	47	40	62	77	268	2,860	738	213	106
3	106	70	70	45	40	62	98	304	2,630	636	200	101
4	100	65	70	41	40	62	76	391	2,510	575	184	98
5	102	64	70	45	40	63	78	454	2,460	566	174	97
6	104	61	66	47	40	67	94	567	2,470	562	158	137
7	102	60	58	50	42	72	100	640	2,530	546	149	133
8	98	65	52	50	43	75	93	655	2,230	513	143	113
9	93	68	54	50	44	82	93	601	2,040	483	139	124
10	87	65	56	50	46	100	96	600	2,100	464	132	183
11	84	62	56	50	46	108	100	602	2,060	444	130	180
12	84	62	56	50	46	108	102	606	1,960	424	129	141
13	78	62	56	49	46	108	100	667	1,790	404	128	131
14	84	62	56	47	46	108	94	893	1,600	387	135	128
15	84	65	56	45	46	108	102	1,190	1,570	367	137	121
16	78	60	56	43	48	110	106	1,470	1,510	347	146	117
17	82	57	56	40	50	110	108	1,540	1,850	332	132	111
18	87	54	56	45	54	108	110	1,490	1,580	309	126	108
19	85	57	56	49	59	108	106	1,460	1,360	297	125	114
20	85	60	56	50	66	108	106	1,510	1,150	331	132	119
21	84	61	56	50	66	106	110	1,630	1,080	420	123	111
22	80	62	56	50	68	104	108	1,390	1,060	345	119	111
23	78	64	57	50	62	112	114	1,130	1,160	303	126	109
24	78	61	60	50	60	110	131	1,150	1,170	283	127	110
25	78	62	63	48	59	106	156	1,200	969	263	123	112
26	75	60	59	47	58	104	159	1,370	900	252	117	112
27	75	64	53	46	58	102	184	1,600	811	243	111	151
28	65	70	48	45	58	104	225	1,790	758	248	105	210
29	58	70	51	42	60	102	260	1,890	799	224	104	158
30	60	70	52	40	-----	100	264	2,050	800	207	109	144
31	62	-----	53	40	-----	87	-----	2,070	-----	204	108	-----
TOTAL	2,626	1,896	1,804	1,451	1,471	2,928	3,626	33,438	49,967	12,507	4,306	3,798
MEAN	84.7	63.2	58.2	46.8	50.7	94.5	121	1,079	1,666	403	139	127
MAX	106	70	70	50	68	112	264	2,070	2,860	790	222	210
MIN	58	54	48	40	40	62	76	260	758	204	104	97
CFSM	.53	.40	.36	.29	.32	.59	.76	6.74	10.4	2.52	.87	.79
IN.	.61	.44	.42	.34	.34	.68	.84	7.77	11.62	2.91	1.00	.88
AC-FT	5,210	3,760	3,580	2,880	2,920	5,810	7,190	66,320	99,110	24,810	8,540	7,530

CAL YR 1971 TOTAL 147,734 MEAN 405 MAX 2,880 MIN 35 CFSM 2.53 IN 34.35 AC-FT 293,000
WTR YR 1972 TOTAL 119,818 MEAN 327 MAX 2,860 MIN 40 CFSM 2.04 IN 27.86 AC-FT 237,700

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-16	2400	5.28	1,830
6- 2	0400	6.28	3,190

BUFFALO FORK BASIN

217

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WYO.

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, in Grand Teton National Park, on right bank, underneath bridge on U.S. Highway 26, 287, about 2 miles upstream from Lava Creek, 3.5 miles east of Moran, and 4 miles upstream from mouth.

DRAINAGE AREA.--355 sq mi.

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 4 miles downstream.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft above mean sea level (U.S. Bureau of Public Roads bench mark).

AVERAGE DISCHARGE.--7 years (1965-72), 593 cfs (429,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,160 cfs June 8 (gage height, 7.65 ft); minimum daily, 100 cfs Jan. 31 to Feb. 10.

Period of record: Maximum discharge, 5,160 cfs June 8, 1972; maximum gage height, 7.66 ft June 23, 1971; minimum daily, 82 cfs Jan. 28-31, 1969.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	220	140	140	100	125	155	354	3,820	2,820	890	378
2	315	220	140	130	100	125	159	340	4,260	2,620	850	381
3	312	225	140	120	100	130	155	372	4,590	1,990	795	360
4	315	210	140	115	100	130	157	446	4,640	1,700	745	345
5	328	200	135	120	100	135	165	530	4,830	1,830	703	345
6	342	185	130	130	100	145	188	658	4,680	2,000	680	414
7	340	180	120	140	100	160	202	685	4,810	2,200	662	420
8	348	190	110	140	100	175	193	690	5,010	2,210	658	372
9	310	190	115	140	100	185	190	618	4,830	2,030	622	387
10	302	185	120	140	100	195	197	595	4,700	1,940	600	644
11	298	180	120	140	105	195	199	559	4,620	1,880	577	590
12	290	175	120	140	110	195	197	554	4,590	1,880	546	486
13	280	175	120	140	115	190	188	582	4,260	1,880	546	449
14	290	172	120	140	115	190	177	740	3,670	1,910	644	420
15	285	170	120	135	115	190	190	945	3,660	1,730	649	393
16	278	155	125	135	115	185	204	1,170	3,550	1,490	559	390
17	285	145	125	130	120	185	211	1,420	4,080	1,420	518	354
18	290	135	125	140	125	180	206	1,390	3,940	1,300	490	330
19	272	145	125	150	135	180	193	1,400	3,340	1,260	506	335
20	280	150	125	155	140	180	193	1,480	2,810	1,160	506	340
21	278	150	125	155	140	180	197	1,670	2,660	1,290	460	320
22	258	150	125	150	135	175	195	1,540	2,730	1,120	446	318
23	262	150	125	150	125	199	193	1,260	2,950	1,050	502	315
24	262	150	130	150	120	184	218	1,190	2,920	1,040	486	305
25	262	150	140	140	120	179	255	1,200	2,430	1,000	432	310
26	255	135	135	135	120	171	255	1,290	2,160	955	411	300
27	250	135	130	130	120	165	262	1,560	1,840	980	402	357
28	225	140	130	125	120	157	305	1,900	1,680	960	390	381
29	210	140	135	115	125	163	363	2,280	2,260	900	387	338
30	212	140	140	108	-----	165	390	2,740	2,590	875	381	328
31	215	-----	145	100	-----	157	-----	3,270	-----	850	384	-----
TOTAL	8,777	5,047	3,975	4,178	3,320	5,270	6,352	35,428	108,910	48,270	17,427	11,405
MEAN	283	168	128	135	114	170	212	1,143	3,630	1,557	562	380
MAX	348	225	145	155	140	199	390	3,270	5,010	2,820	890	644
MIN	210	135	110	100	100	125	155	340	1,680	850	381	300
CFSM	.80	.47	.36	.38	.32	.48	.60	3.22	10.2	4.39	1.58	1.07
IN.	.92	.53	.42	.44	.35	.55	.67	3.71	11.41	5.06	1.83	1.20
AC-FT	17,410	10,010	7,880	8,290	6,590	10,450	12,600	70,270	216,000	95,740	34,570	22,620

CAL YR 1971 TOTAL 266,651 MEAN 731 MAX 4,650 MIN 90 CFSM 2.06 IN 27.94 AC-FT 528,900
WTR YR 1972 TOTAL 258,359 MEAN 706 MAX 5,010 MIN 100 CFSM 1.99 IN 27.07 AC-FT 512,500

PEAK DISCHARGE (BASE, 3,100 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 8	Unknown	7.65	5,160
6-17	0830	6.94	4,270
7- 1	0530	6.07	3,300

FLAT CREEK BASIN

13018300 CACHE CREEK NEAR JACKSON, WYO.
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Teton National Forest, on right bank 0.7 mile upstream from Salt Lick Draw, 2.4 miles southeast of Jackson, and 4 miles upstream from mouth.

DRAINAGE AREA.--10 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--10 years, 14.8 cfs (10,720 acre-ft per year).

EXTREMES.--Current yea. Maximum discharge, 162 cfs June 7, (gage height, 3.97 ft); minimum daily, 4.0 cfs Feb. 3.

Period of record: Maximum discharge, 225 cfs June 24, 1971 (gage height, 3.90 ft); maximum gage height, 3.97 ft June 7, 1972; minimum daily discharge, 2.7 cfs Jan. 5, 1971.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.2	6.2	5.3	4.7	4.5	4.3	12	96	48	22	12
2	11	7.9	6.0	5.5	4.3	4.5	4.1	12	111	47	22	12
3	11	7.5	5.8	5.4	4.0	4.5	4.1	13	148	44	20	11
4	11	7.5	6.0	5.3	4.3	4.3	4.3	16	138	42	20	11
5	11	7.5	5.8	5.2	4.5	4.3	4.3	17	134	42	20	12
6	11	7.3	5.5	5.4	4.7	4.3	5.3	22	138	41	19	13
7	10	7.5	5.3	5.3	4.7	4.3	5.3	27	144	40	19	12
8	10	7.6	5.1	5.3	4.7	4.3	5.3	26	138	40	19	12
9	9.6	7.2	5.2	5.3	4.7	4.5	5.0	24	124	38	18	12
10	9.6	7.2	5.4	5.3	4.6	4.7	5.3	23	120	38	17	13
11	9.2	6.9	5.5	4.7	4.5	5.0	5.5	22	118	38	17	12
12	8.9	6.9	5.5	5.3	4.5	5.0	5.5	23	109	37	17	12
13	8.6	6.9	5.5	5.6	4.5	5.0	5.5	24	96	36	17	12
14	9.2	6.7	5.3	6.0	4.5	5.0	5.5	30	90	35	16	11
15	9.2	6.4	5.3	6.1	4.5	5.0	5.8	37	88	33	16	11
16	9.2	6.4	5.3	5.8	4.5	4.7	6.1	43	88	32	16	11
17	10	6.0	5.5	5.5	4.5	5.0	6.1	47	92	31	16	10
18	10	5.8	5.5	5.5	4.5	5.0	5.8	47	88	30	16	10
19	9.2	6.0	5.5	5.5	4.5	5.5	5.8	49	75	30	16	11
20	9.2	6.5	5.5	5.5	4.5	5.3	5.8	53	66	32	16	10
21	9.2	6.7	5.5	5.8	4.5	5.3	5.8	53	63	31	15	10
22	8.9	6.4	5.5	5.8	4.5	5.3	6.1	53	61	29	14	10
23	9.2	6.1	5.5	5.8	4.5	5.5	6.4	45	62	28	16	9.2
24	9.2	6.4	5.5	5.8	4.3	5.3	7.2	42	64	26	15	9.2
25	8.9	6.4	5.5	5.5	4.3	5.3	7.2	45	60	25	14	9.2
26	8.9	6.4	5.5	5.5	4.3	5.3	8.2	47	54	25	14	9.2
27	8.9	6.4	5.3	5.5	4.3	5.1	8.9	51	52	25	14	10
28	9.2	6.1	5.0	5.5	4.7	4.8	11	53	45	24	13	10
29	7.8	6.1	4.7	5.4	4.7	4.6	12	56	49	24	13	8.9
30	7.4	6.1	4.9	5.3	-----	4.4	12	66	48	22	13	8.6
31	7.9	-----	5.2	5.0	-----	4.3	-----	72	-----	22	13	-----
TOTAL	292.4	203.0	168.8	169.7	130.3	149.9	189.5	1,150	2,763	1,035	513	324.3
MEAN	9.43	6.77	5.45	5.47	4.49	4.84	6.32	37.1	92.1	33.4	16.5	10.8
MAX	11	8.2	6.2	6.1	4.7	5.5	12	72	148	48	22	13
MIN	7.4	5.9	4.7	4.7	4.0	4.3	4.1	12	48	22	13	8.6
AC-FT	580	403	335	337	258	297	376	2,280	5,480	2,050	1,020	643

CAL YR 1971 TOTAL 7,541.4 MEAN 20.7 MAX 161 MIN 2.7 AC-FT 14,960
WTR YR 1972 TOTAL 7,093.9 MEAN 19.4 MAX 148 MIN 4.0 AC-FT 14,060

PEAK DISCHARGE (BASE, 52 CFS)

DATE	TIME	G.H.T.	DISCHARGE
6- 7	0030	3.97	162

SNAKE RIVER MAIN STEM

219

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WYO.

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, on right bank 0.3 mile downstream from Wolf Creek, 6.4 miles upstream from Greys River, 7.4 miles east of Alpine, and at mile 928.0.

DRAINAGE AREA.--3,465 sq mi.

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft above mean sea level, unadjusted. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 miles downstream at different datum.

AVERAGE DISCHARGE.--20 years (1937-38, 1953-72), 4,592 cfs (3,327,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 24,100 cfs June 8 (gage height, 10.80 ft); minimum daily, 1,580 cfs Jan. 14, 15.

Period of record: Maximum discharge, 26,800 cfs June 28, 1954 (gage height, 11.68 ft); minimum, 740 cfs Nov. 16, 1955 (gage height, 2.19 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,260	2,520	2,030	1,850	1,950	2,670	3,330	8,350	20,800	13,200	7,140	5,810
2	3,210	2,440	1,900	1,850	1,900	2,640	3,390	8,350	22,400	13,600	7,070	5,770
3	3,140	2,300	1,880	1,850	1,880	2,780	3,480	8,630	21,900	12,800	6,870	5,700
4	3,120	2,320	1,880	1,780	1,880	2,570	3,540	9,270	20,900	11,100	6,580	5,600
5	3,100	2,360	1,890	1,780	1,900	2,520	3,590	9,890	21,400	10,600	6,400	5,630
6	3,100	2,220	1,900	1,800	2,000	2,640	3,980	10,800	22,000	11,200	6,230	5,820
7	3,080	2,160	1,900	1,800	2,020	2,600	4,390	11,900	23,100	11,300	6,130	5,920
8	3,030	2,190	1,720	1,800	2,020	2,660	4,160	11,900	23,800	11,000	6,150	5,710
9	2,970	2,200	1,750	1,800	2,000	2,880	4,120	11,300	23,200	11,200	6,080	5,680
10	2,920	2,190	1,760	1,800	1,850	3,100	4,220	10,500	22,300	10,800	5,940	6,120
11	2,880	2,200	1,760	1,780	1,900	3,240	4,370	10,500	21,500	10,500	5,810	6,340
12	2,870	2,250	1,750	1,720	2,020	3,300	4,680	10,400	20,900	10,400	5,800	6,340
13	2,810	2,340	1,750	1,680	1,980	3,390	4,410	10,500	19,700	10,300	5,810	5,830
14	2,880	2,300	1,740	1,580	1,970	3,590	4,140	11,100	18,100	10,200	5,940	5,640
15	2,960	2,260	1,740	1,580	1,950	3,560	4,080	12,500	17,100	9,990	6,050	5,430
16	2,960	2,190	1,720	1,590	1,970	3,590	4,200	13,900	16,800	9,500	6,300	5,330
17	3,230	2,130	1,710	1,700	1,970	3,760	4,410	14,800	18,400	9,160	6,230	5,290
18	3,240	2,080	1,710	1,950	1,980	3,940	4,510	16,000	19,400	8,850	6,150	5,220
19	3,100	2,080	1,750	2,200	1,980	4,100	4,850	16,400	18,100	8,520	6,000	4,940
20	2,990	2,110	1,800	2,130	1,970	4,080	4,870	17,000	16,600	8,450	6,070	4,660
21	2,990	2,120	1,860	2,180	1,980	4,080	4,940	17,000	15,600	9,090	5,970	4,510
22	2,920	2,130	1,900	2,150	1,980	4,080	5,520	16,800	15,400	8,750	6,010	4,430
23	2,890	2,130	1,960	2,130	1,970	4,220	6,070	15,800	15,700	8,160	6,140	4,320
24	2,870	2,120	2,000	2,040	1,990	4,000	6,340	15,000	16,600	7,870	6,200	4,340
25	2,870	2,130	2,030	2,020	2,070	3,980	7,070	14,900	15,600	7,700	6,030	4,320
26	2,830	2,110	2,110	2,070	2,220	3,780	7,120	14,800	14,800	7,620	5,890	4,320
27	2,870	2,180	2,000	2,090	2,340	3,590	7,170	15,500	13,700	7,570	5,760	4,560
28	2,810	2,130	1,900	2,130	2,660	3,480	7,890	16,800	12,600	7,600	5,690	4,550
29	2,520	2,150	1,880	2,090	2,920	3,410	8,580	18,300	12,100	7,270	5,730	4,120
30	2,430	2,090	1,900	2,000	-----	3,370	8,550	19,700	12,600	7,070	5,790	3,840
31	2,490	-----	1,880	1,900	-----	3,320	-----	20,500	-----	6,990	5,710	-----
TOTAL	91,330	66,130	57,460	58,820	59,220	104,920	151,970	419,090	553,100	298,360	189,670	155,950
MEAN	2,946	2,204	1,854	1,897	2,042	3,385	5,066	13,520	18,440	9,625	6,118	5,198
MAX	3,260	2,520	2,110	2,200	2,920	4,220	8,580	20,500	23,800	13,600	7,140	6,340
MIN	2,430	2,080	1,710	1,580	1,850	2,520	3,330	8,350	12,100	6,990	5,690	3,840
AC-FT	181,200	131,200	114,000	116,700	117,500	208,100	301,400	831,300	1,097M	591,800	376,200	309,300

CAL YR 1971 TOTAL 2,422,100 MEAN 6,636 MAX 24,700 MIN 1,300 AC-FT 4,804,000
WTR YR 1972 TOTAL 2,206,020 MEAN 6,027 MAX 23,800 MIN 1,580 AC-FT 4,376,000

GREYS RIVER BASIN

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WYO.

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, on right bank at Bridge Campground, 3 miles upstream from mouth, and 3.6 miles southeast of Alpine.

DRAINAGE AREA.--448 sq mi. Mean altitude, 8,080 ft.

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as Greys River near Alpine, Idaho, 1917-18 and as Greys River near Alpine, Wyo., 1937-39.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (from topographic map). July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 miles downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mile downstream at different datums.

AVERAGE DISCHARGE.--20 years (1937-38, 1953-72), 657 cfs (19.91 inches per year, 476,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,170 cfs June 7 (gage height, 5.89 ft); minimum daily, 180 cfs Feb. 25-28.

Period of record: Maximum discharge observed, 7,230 cfs June 19, 1971 (gage height, 6.33 ft); maximum gage height observed, 19.1 ft (former site and datum) about Dec. 18, 1965 (ice jam); minimum discharge, 111 cfs Dec. 7, 1960 (gage height, 2.45 ft, former site and datum).

REMARKS.--Records good except those for winter periods, which are fair. Less than 500 acres irrigated by diversions from Greys River and tributaries above station.

REVISIONS (WATER YEARS).--WRD Wyo. 1967: 1966.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	345	230	245	235	210	358	1,330	3,990	2,180	832	550
2	475	337	220	240	235	224	386	1,370	4,330	2,090	820	560
3	465	321	220	240	235	228	420	1,440	4,070	1,960	784	555
4	460	329	225	220	235	204	460	1,770	4,020	1,840	772	560
5	450	337	230	225	235	196	500	2,060	4,140	1,760	750	600
6	440	294	235	230	235	207	778	2,350	4,640	1,730	750	658
7	430	300	230	230	235	207	820	2,750	4,820	1,700	730	560
8	420	305	200	230	235	193	784	2,750	4,580	1,670	720	520
9	420	310	215	230	235	196	826	2,420	4,220	1,600	700	515
10	415	313	230	225	240	214	908	2,160	4,270	1,540	680	540
11	405	313	230	225	240	238	1,010	2,200	4,070	1,490	660	515
12	395	321	235	220	250	256	1,080	2,110	3,900	1,450	650	490
13	390	329	240	215	240	280	929	2,220	3,640	1,410	635	475
14	425	317	240	215	230	321	838	2,500	3,290	1,380	610	465
15	445	309	240	215	225	329	820	2,830	3,020	1,330	600	465
16	420	294	235	220	225	341	874	3,190	2,970	1,270	595	455
17	445	302	235	240	220	381	943	3,330	3,190	1,220	595	445
18	440	284	230	270	220	455	922	3,250	3,040	1,180	595	440
19	425	295	230	295	220	515	850	3,210	2,740	1,150	600	475
20	395	302	235	305	215	510	802	3,230	2,500	1,140	605	465
21	381	288	235	305	210	485	808	3,150	2,390	1,130	595	445
22	372	298	240	305	215	525	790	2,920	2,430	1,060	585	430
23	363	284	250	305	186	615	887	2,560	2,460	1,000	580	430
24	363	284	255	305	182	550	1,060	2,410	2,520	978	590	425
25	372	284	265	305	180	515	1,230	2,380	2,430	957	570	420
26	363	274	275	300	180	470	1,130	2,430	2,250	964	560	420
27	368	270	265	290	180	430	1,240	2,520	2,010	922	550	440
28	354	265	260	280	180	400	1,410	2,720	1,960	887	540	415
29	329	260	255	275	190	386	1,550	2,970	2,060	850	535	420
30	337	245	250	260	-----	372	1,560	3,270	2,140	838	535	405
31	350	-----	245	240	-----	350	-----	3,640	-----	820	540	-----
TOTAL	12,607	9,009	7,380	7,905	6,343	10,803	26,973	79,440	98,090	41,502	19,863	14,558
MEAN	407	300	238	255	219	348	899	2,563	3,270	1,339	641	485
MAX	495	345	275	305	250	615	1,560	3,640	4,820	2,180	832	658
MIN	329	245	200	215	180	193	358	1,330	1,960	826	535	405
CFSM	.91	.67	.53	.57	.49	.78	2.01	5.72	7.30	2.99	1.43	1.08
IN.	1.05	.75	.61	.66	.53	.90	2.24	6.60	8.14	3.45	1.65	1.21
AC-FT	25,010	17,870	14,640	15,680	12,580	21,430	53,500	157,600	194,600	82,320	39,400	28,880
CAL YR 1971	TOTAL 371,654	MEAN 1,018	MAX 6,170	MIN 165	CFSM 2.27	IN 30.86	AC-FT 737,200					
WTR YR 1972	TOTAL 334,473	MEAN 914	MAX 4,820	MIN 180	CFSM 2.04	IN 27.77	AC-FT 663,400					

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE
5-17	0330	5.22	3,680
6- 7	0600	5.89	5,170

SALT RIVER BASIN

221

13025000 SWIFT CREEK NEAR APTON, WYO.

LOCATION.--Lat 42°43'30", long 110°54'00", in SE¼ sec.29, T.32 N., R.118 W., Lincoln County, Bridger National Forest, on right bank 1 mile upstream from mouth of canyon, 1.5 miles east of Afton, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--27.4 sq mi.

PERIOD OF RECORD.--October 1942 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (from topographic map).

AVERAGE DISCHARGE.--29 years (1942-71), 86.9 cfs (62,960 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 557 cfs June 4 (gage height, 3.15 ft); minimum daily during period of operation, 33 cfs Apr. 22, 23.

Period of record: Maximum discharge, 775 cfs June 30, 1957 (gage height, 3.52 ft); maximum gage height, 3.73 ft June 17, 1971; minimum daily discharge, 20 cfs Dec. 30, 1958.

REMARKS.--Records poor. Small powerplant and reservoir (adjudication, 48.45 acre-ft per year) 0.2 mile upstream. Pipeline (adjudication, 2.5 cfs) diverts water above station for town of Afton. No diversion for irrigation above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77						40	45	462	343	148	81
2	73						41	52	487	335	136	81
3	71						42	58	482	311	133	77
4	69						43	65	495	303	126	73
5	69						44	75	497	291	128	79
6	71						44	77	414	295	131	96
7	69						45	101	432	299	133	89
8	67						45	101	405	299	136	94
9	67						46	96	396	300	131	83
10	71						46	89	379	310	126	81
11	73						44	92	371	311	123	83
12	75						43	94	347	307	123	83
13	79						42	96	355	303	126	77
14	77						42	115	307	295	126	71
15	79						43	136	311	264	126	65
16	79						43	175	367	250	120	73
17	79						43	200	379	232	118	64
18	81						42	156	367	225	113	60
19	79						39	153	371	225	133	62
20	75						36	168	343	222	133	67
21	75						34	178	331	208	123	73
22	73						33	175	307	178	118	71
23	69						33	162	327	175	115	71
24	67						35	148	327	184	110	71
25	64						39	139	303	178	101	71
26	62						37	145	253	168	96	67
27	60						37	159	228	153	94	69
28	60						39	194	225	150	89	65
29	58						40	239	299	148	85	65
30	57						42	271	345	150	85	67
31	57	-----			-----		-----	323	-----	150	85	-----
TOTAL	2,182						1,222	4,277	10,912	7,562	3,670	2,229
MEAN	70.4						40.7	138	364	244	118	74.3
MAX	81						46	323	497	343	148	96
MIN	57						33	45	225	148	85	60
AC-FT	4,330						2,420	8,480	21,640	15,000	7,280	4,420

PEAK DISCHARGE (BASE, 390 CFS)

DATE	TIME	G.HT.	DISCHARGE
6- 4	0100	3.15	557

HENRYS FORK BASIN

223

Small Reservoir in Henrys Fork basin

13046500 GRASSY LAKE.--Lat 44°07'45", long 110°49'05", in NE¼ sec.18, T.48 N., R.116 W., Teton County, in gate-house at dam 0.4 mile upstream from mouth on Grassy Creek, which is tributary to headwaters of Falls River, and 25.4 miles northwest of Moran, Wyo. Drainage area, 10.4 sq mi, including basin of Cascade Creek, from which water is diverted into Grassy Lake. Period of record, October 1939 to current year. Mercury pressure gage. Datum of gage is mean sea level (levels by Bureau of Reclamation). Current year: Maximum contents observed, 15,400 acre-ft June 9, 15 (maximum elevation, 7,210.65 ft June 9, 15); minimum contents observed, 9,490 acre-ft Sept. 25 (elevation, 7,190.10 ft). Period of record: Maximum contents observed, 15,446 acre-ft July 2, 1943 (elevation, 7,210.85 ft); no contents Oct. 2-5, 1940.

Reservoir is formed by earth-fill, rock-faced dam; storage began Oct. 18, 1939. Capacity, 15,200 acre-ft between elevations 7,135.0 ft (sill of trashrack) and 7,210.0 ft (crest of spillway). Water is used for irrigation of lands in Fremont-Madison irrigation district, Idaho. Gage read about twice monthly. Records given herein represent usable contents. Gage-height record and capacity table furnished by Bureau of Reclamation.

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

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	---	a12,800	---
OCT. 31	---	a12,900	+100
NOV. 30	---	a13,200	+300
DEC. 31	---	a13,500	+300
CALENDAR YEAR 1971	---	---	+1,600
JAN. 31	---	a14,000	+500
FEB. 29	7,206.90	14,200	+200
MAR. 31	---	a14,500	+300
APR. 30	---	a14,700	+200
MAY 31	---	a15,400	+700
JUNE 30	7,210.35	15,300	-100
JULY 31	---	a14,900	-400
AUG. 31	7,195.90	11,000	-3,900
SEPT. 30	---	a 9,500	-1,500
WATER YEAR 1972	---	---	-3,300

a No gage-height record.

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. For some stations designated by the symbol S following the stations name, a graphic record is obtained of stage and of rainfall. 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, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Yellowstone River basin							
06218700	Wagon Gulch near Dubois, Wyo.	Lat 43°34'42", long 109°44'13", in NE¼NE¼ sec.30, T.42 N., R.107 W., Fremont County, 600 ft upstream from U.S. Highways 26 and 287 and 6.2 miles northwest of Dubois. Prior to Oct. 1, 1970, at site 600 ft downstream at different datum.	4.89	1961-72	4- -72	15.56	116
06221200	Wind River tributary near Burris, Wyo. (station discontinued)	Lat 43°25'09", long 109°23'18", in SW¼SW¼ sec.8, T.5 N., R.5 W., Fremont County, Wind River Indian Reservation, at culvert on U.S. Highway 26 and 6.8 miles northwest of Burris.	4.71	1961-72	1972		(a)
06223700	Sand Draw near Crowheart, Wyo.	Lat 43°15'50", long 109°05'05", in NE¼SW¼ sec.2, T.3 N., R.3 W., Fremont County, Wind River Indian Reservation, at culvert on U.S. Highway 26 and 6.3 miles southeast of Crowheart.	12.8	1961-72	4- -72	5.75	(†)
06223800	Wind River tributary No. 2 near Crowheart, Wyo.	Lat 43°14'18", long 109°01'52", in SE¼NE¼ sec.18, T.3 N., R.2 W., Fremont County, Wind River Indian Reservation, at culvert on U.S. Highway 26 and 9.6 miles southeast of Crowheart.	3.16	1961-72	1972		(a)
06226200	Little Dry Creek near Crowheart, Wyo.	Lat 43°32'10", long 109°05'20", in SW¼ sec.35, T.7 N., R.3 W., Fremont County, Wind River Indian Reservation, 800 ft upstream from Blue Draw Road and 16.5 miles north of Crowheart. Prior to June 16, 1965, at site 800 ft downstream at different datum.	10.5	1961-72	6- 6-72	1.67	17
06226300	Dry Creek near Crowheart, Wyo.	Lat 43°23'40", long 109°02'25", in NW¼SE¼ sec.19, T.5 N., R.2 W., Fremont County, Wind River Indian Reservation, on left bank 9.7 miles northeast of Crowheart.	97.9	1959, 1961-72	8-23-72	6.21	170
06229700	Norkok Meadows Creek near Fort Washakie, Wyo.	Lat 43°04'56", long 108°54'12", in NE¼NW¼ sec.8, T.1 N., R.1 W., Fremont County, Wind River Indian Reservation, 100 ft downstream from culvert on U.S. Highway 287 and 5.5 miles north of Fort Washakie.	15.4	1965-72	5-19-72	6.04	19
06229800	Sand Draw near Fort Washakie, Wyo.	Lat 43°03'42", long 108°54'44", in NE¼SE¼ sec.18, T.1 N., R.1 W., Fremont County, Wind River Indian Reservation, at culvert on U.S. Highway 287 and 4.3 miles north of Fort Washakie.	.99	1961-72	4-18-72	5.19	23
06229900	Trout Creek near Fort Washakie, Wyo.	Lat 42°57'04", long 108°56'54", in NW¼NW¼ sec.25, T.1 S., R.2 W., Fremont County, Wind River Indian Reservation, 100 ft upstream from Blue Trail and 5.0 miles southwest of Fort Washakie. Prior to Oct. 1, 1968, at site 100 ft downstream at same datum.	16.1	1961-68, 1970-72	6- 8-72	5.86	80
06231600	Middle Popo Agie River below The Sinks, near Lander, Wyo.	Lat 42°45'27", long 108°47'52", in SW¼NW¼SW¼ sec.9, T.32 N., R.100 W., Fremont County, on left bank 0.2 mile upstream from Sawmill Creek, 1.2 miles downstream from The Sinks, and 6.5 miles southwest of Lander.	87.5	1960-68†, 1969-72	6- 7-72	5.67	1,450

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06233340	Monument Draw at upper station, near Hudson, Wyo. S (station discontinued)	Lat 42°48'57", long 108°33'04", in NE¼SE¼ sec.22,T.33 N., R.98 W., Fremont County, on right bank 50 ft downstream from dirt road crossing and 6.3 miles south of Hudson.	5.50	1965-72	3- -72	3.30	(†)
06233360	Monument Draw at lower station, near Hudson, Wyo. S	Lat 42°49'15", long 108°34'59", in SW¼NW¼ sec.21, T.33 N., R.98 W., Fremont County, on left bank 225 ft upstream from dirt road crossing and 5.8 miles south of Hudson.	8.38	1965-72	3- -72	3.98	198
06233440	Coal Mine Draw tributary near Hudson, Wyo. S (station discontinued)	Lat 42°50'43", long 108°35'04", in NW¼SW¼ sec.9, T.33 N., R.98 W., Fremont County, on left bank 150 ft upstream from bridge on county road and 4.1 miles south of Hudson.	.63	1965-72	3- -72	2.82	88
06234700	South Fork Hall Creek near Lander, Wyo. (station discontinued)	Lat 42°38'44", long 108°23'23", in NW¼SE¼ sec.23, T.31 N., R.97 W., Fremont County, 200 ft downstream from bridge on U.S. Highway 287 and 21 miles southeast of Lander. Prior to Sept. 30, 1963, at site 200 ft upstream at same datum.	3.88	1960-72	2-23-72	(b)	c20
06234800	Bobcat Draw near Sand Draw, Wyo.	Lat 42°49'34", long 108°13'18", in NW¼NW¼ sec.21, T.33 N., R.95 W., Fremont County, about 500 ft upstream from culvert on Sand Draw Road, 0.3 mile upstream from mouth, and 5.0 miles north of Sand Draw.	d2.89	1969, 1971-72	6-17-72	6.93	160
06235700	Haymaker Creek near Riverton, Wyo.	Lat 43°04'54", long 108°22'46", in NW¼NW¼ sec.11, T.1 N., R.4 E., Fremont County, Wind River Indian Reservation, at culvert on U.S. Highway 26 and 4.0 miles north of Riverton. Prior to Oct. 1, 1964, gage at different datum.	9.52	1961-64, 1966-72	2-23-72	5.84	110
06236000	Kirby Draw near Riverton, Wyo.	Lat 43°05'29", long 108°16'06", in NW¼SE¼ sec.3, T.1 N., R.5 E., Fremont County, Wind River Indian Reservation, on left bank 1.5 miles upstream from mouth and 7.0 miles northeast of Riverton.	129	1951-53†, 1961-72	6- 5-72	5.71	880
06238760	West Fork Dry Cheyenne Creek at upper station, near Riverton, Wyo. S	Lat 42°57'12", long 108°06'16", in NE¼NW¼ sec.4, T.34 N., R.94 W., Fremont County, on left bank 45 ft upstream from dim trail, 2.2 miles south of Ohio Road, and about 14 miles east of Riverton.	.69	1965-72	6- 5-72	5.08	706
06238780	West Fork Dry Cheyenne Creek tributary near Riverton, Wyo. S	Lat 42°58'03", long 108°06'12", in SE¼NW¼ sec.33, T.35 N., R.94 W., Fremont County, on left bank 1.3 miles south of Ohio Road and 14 miles east of Riverton.	1.85	1965-72	6- 5-72	7.85	1,260
06255160	Dead Man Gulch tributary near Lysite, Wyo. S (station discontinued)	Lat 43°11'28", long 107°46'03", in SE¼NW¼ sec.9, T.37 N., R.91 W., Fremont County, on right bank 300 ft north of powerline road and 6.7 miles southwest of Lysite.	.54	1965-72	5-11-72	.51	18
06255190	Dead Man Gulch near Lysite, Wyo. S	Lat 43°10'58", long 107°46'50", in SW¼SE¼ sec.8, T.37 N., R.91 W., Fremont County, on right bank 0.5 mile upstream from U.S. Highways 20 and 26 and 7.7 miles southwest of Lysite.	4.11	1965-72	3- -72	.93	(†)

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06255300	Poison Creek tributary near Shoshoni, Wyo.	Lat 43°13'26", long 107°59'59", in NW¼NE¼ sec.33, T.38 N., R.93 W., Fremont County, at culvert on old U.S. Highways 20 and 26 and 5.2 miles east of Shoshoni.	0.39	1959-72	2-23-72	4.55	c8
06256600	Red Creek near Arminto, Wyo.	Lat 43°14'44", long 107°19'38", in SW¼SE¼ sec.19, T.38 N., R.87 W., Natrona County, at culvert on Lost Cabin-Arminto Road and 5.9 miles northwest of Arminto.	7.15	1963-72	6-19-72	6.53	84
06256670	Badwater Creek tributary near Lysite, Wyo. S	Lat 43°15'30", long 107°42'55", in NE¼SE¼ sec.14, T.38 N., R.91 W., Fremont County, on left bank 0.2 mile up stream from dim road and 1.5 miles southwest of Lysite.	5.86	1965-72	6-17-72	1.46	96
06256700	South Bridger Creek near Lysite, Wyo.	Lat 43°26'40", long 107°45'22", in SE¼SE¼ sec.9, T.40 N., R.91 W., Fremont County, 600 ft downstream from bridge on Bridger Creek Road and 12.5 miles northwest of Lysite. Prior to Oct. 1, 1968, at site 600 ft upstream at different datum.	10.0	1960-72	2-29-72	7.61	130
06257300	Shotgun Creek tributary near Pavillion, Wyo.	Lat 43°27'35", long 108°44'37", in SW¼SE¼ sec.27, T.6 N., R.1 E., Fremont County, Wind River Indian Reservation, at bridge on dirt road, about 1 mile west of Shotgun Butte, and 15.2 miles north of Pavillion.	2.57	1961-72	6- 9-72	7.91	(†)
06258400	Birdseye Creek near Shoshoni, Wyo. (station discontinued)	Lat 43°22'27", long 108°07'38", in SW¼SW¼ sec.4, T.39 N., R.94 W., Fremont County, at culvert on U.S. Highway 20 and 9.6 miles north of Shoshoni.	13.2	1959-72	8-21-72	10.21	225
06265200	Sand Draw near Thermopolis, Wyo.	Lat 43°48'30", long 108°28'00", in SW¼ sec.2, T.44 N., R.97 W., Hot Springs County, at culvert on State Highway 120 and about 17 miles northwest of Thermopolis.	6.33	1960-72	6- 9-72	5.25	188
06265600	Tie Down Gulch near Worland, Wyo.	Lat 43°53'15", long 108°07'45", in NW¼NW¼ sec.10, T.45 N., R.94 W., Washakie Coutny, at culvert on U.S. Highway 20 and 12.3 miles southwest of Worland.	1.78	1961-72	8- 2-72	8.31	300
06266320	Gillies Draw tributary near Grass Creek, Wyo. S	Lat 44°04'53", long 108°34'52", in SE¼SW¼ sec.35, T.48 N., R.98 W., Park County, on left bank 120 ft northwest of jeep road and 10.4 miles north of Grass Creek.	1.30	1965-72	2-20-72	1.45	18
06266460	Murphy Draw near Grass Creek, Wyo. S	Lat 44°00'52", long 108°30'08", in SE¼NW¼ sec.28, T.47 N., R.97 W., Hot Springs County, on left bank 0.4 mile upstream from State Secondary Highway 2200 and 8.9 miles northeast of Grass Creek.	2.32	1965-72	9- 2-72	3.18	177
06267260	North Prong East Fork Nowater Creek near Worland, Wyo. S	Lat 43°57', long 107°49', in SW¼SE¼ sec.18, T.46 N., R.91 W., Washakie County, on right bank 0.3 mile upstream from South Fork-Sand Creek Oil Field Road and 8.7 miles southeast of Worland.	e3.8	1964-72	2-20-72	2.01	29
06267270	North Prong East Fork Nowater Creek tributary near Worland, Wyo. S	Lat 43°57', long 107°49', in NW¼NE¼ sec.19, T.46 N., R.91 W., Washakie County, on right bank about 1,000 ft upstream from mouth, 0.3 mile north of South Fork-Sand Creek Oil Field Road, and 8.9 miles southeast of Worland.	e2.1	1965-72	2-20-72	2.84	36

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06269700	Spring Creek near Ten Sleep, Wyo.	Lat 43°57'30", long 107°23'20", in NE¼NE¼ sec.14, T.46 N., R.88 W., Washakie County, at culvert on paved road and 6.0 miles southeast of Ten Sleep.	57.9	1961-72	6- 3-72	f5.32	123
06269750	Nowood River tributary near Ten Sleep, Wyo.	Lat 43°58'30", long 107°23'20", in NE¼NE¼ sec.11, T.46 N., R.88 W., Washakie County, at culvert on paved county road and 5.1 miles southeast of Ten Sleep.	.42	1960-72	8- 2-72	4.58	c1
06270200	Leigh Creek near Ten Sleep, Wyo.	Lat 44°09'49", long 107°09'14", in NW¼NE¼ sec.2, T.48 N., R.86 W., Washakie County, Bighorn National Forest, at culvert on Forest Service road, 1.4 miles west of Washakie-Johnson County line, and 16.9 miles northeast of Ten Sleep. Prior to Oct. 1, 1970, at site 0.4 mile downstream at different datum.	g2.54	1961-72	6- 8-72	16.01	(+)
06270300	Canyon Creek tributary near Ten Sleep, Wyo.	Lat 44°09'40", long 107°06'30", in SE¼NW¼ sec.5, T.48 N., R.85 W., Johnson County, Bighorn National Forest, at culvert on U.S. Highway 16, 1.1 miles east of Washakie-Johnson County line, and 19.2 miles northeast of Ten Sleep.	.52	1961-72	6- 8-72	6.61	22
06274190	Nowood River tributary No. 2 near Basin, Wyo. S	Lat 44°16'42", long 107°54'33", in SE¼NE¼ sec.28, T.50 N., R.92 W., Big Horn County, on right bank 0.2 mile upstream from State Secondary Highway 0201, 2.7 miles east of Manderson, and 9.3 miles southeast of Basin.	1.51	1965-72	6- 8-72	1.64	41
06274250	Elk Creek near Basin, Wyo.	Lat 44°18'30", long 108°01'50", in NE¼ sec.16, T.50 N., R.93 W., Big Horn County, at bridge on Orchard Bench Road and 5.1 miles south of Basin.	96.9	1959-72	10- 1-71	9.94	3,200
06277700	Twentyfour Mile Creek near Emblem, Wyo.	Lat 44°27'32", long 108°36'30", in SE¼SW¼ sec.23, T.52 N., R.98 W., Park County, at bridge on U.S. Highways 14 and 20 and 10.0 miles southwest of Emblem.	12.8	1960-72	10-18-71	f3.58	15
06277750	Dry Creek tributary near Emblem, Wyo.	Lat 44°27'42", long 108°34'12", in NW¼SW¼ sec.19, T.52 N., R.97 W., Big Horn County, at culvert on U.S. Highways 14 and 20 and 8.8 miles southwest of Emblem.	.65	1960-68, 1970-72	8-21-72	4.09	43
06278400	Granite Creek near Shell ranger station, near Shell, Wyo.	Lat 44°34'32", long 107°32'52", Big Horn County, Bighorn National Forest, at culvert on U.S. Highway 14, 3.0 miles northwest of Shell ranger station, and 11.8 miles east of Shell.	11.1	1961-72	5-21-72	6.95	193
06279020	Red Gulch near Shell, Wyo.	Lat 44°32'04", long 107°50'06", in NE¼NW¼ sec.32, T.53 N., R.91 W., Big Horn County, 0.2 mile downstream from bridge on old section of U.S. Highway 14, 0.3 mile upstream from mouth, and 2.7 miles west of Shell. Prior to Oct. 1, 1971, at site 400 ft upstream at different datum.	47.8	1967, 1970-72	6-12-70 5-22-71 6-19-72	9.65 f7.80 f14.23	h150 h30 2,700
06279700	Willow Creek near Kane, Wyo.	Lat 44°49'49", long 108°09'08", in NW¼SE¼ sec.15, T.56 N., R.94 W., Big Horn County, at culvert on U.S. Highway 14 Alternate and 2.6 miles southeast of Kane.	14.0	1961-72	3- -72	4.27	(+)

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06279950	Trout Creek near Wapiti, Wyo.	Lat 44°29'10", long 109°20'55", in NE¼NW¼ sec.15, T.52 N., R.104 W., Park County, at culvert on U.S. Highways 14 and 20 and 4.5 miles east of Wapiti.	49.4	1961-72	6- 8-72	1.99	190
06282700	Cottonwood Creek tributary near Cody, Wyo.	Lat 44°36'00", long 109°07'50", in NE¼SW¼ sec.3, T.53 N., R.102 W., Park County, at culvert on State Highway 120 and 6.3 miles northwest of Cody.	.76	1961-72	8-23-72	6.36	73
06296700	Big Willow Creek near Dayton, Wyo.	Lat 44°45'58", long 107°32'25", in NW¼NE¼ sec.11, T.55 N., R.89 W., Sheridan County, Bighorn National Forest, on right bank 240 ft downstream from culvert on U.S. Highway 14 and 15.6 miles southwest of Dayton.	7.08	1961-72	6- 8-72	5.28	(†)
06299900	Slater Creek near Monarch, Wyo.	Lat 44°54'32", long 107°02'49", in SE¼SW¼ sec.18, T.57 N., R.84 W., Sheridan County, 30 ft upstream from bridge on U.S. Highways 14 and 87, 0.2 mile upstream from mouth, and 0.9 mile northwest of Monarch.	18.0	1967-72	3- -72	57.45	(†)
06312700	South Fork Powder River near Powder River, Wyo.	Lat 43°02'00", long 107°01'00", in SE¼NW¼ sec.3, T.35 N., R.85 W., Natrona County, at bridge on U.S. Highways 20 and 26 and 1.6 miles west of Powder River.	262	1961-72	4-26-72	f5.71	405
06312795	Sanchez Creek above reservoir, near Arminto, Wyo.	Lat 43°20'23", long 107°10'48", in NE¼NE¼ sec.20, T.39 N., R.86 W., Natrona County, 0.9 mile upstream from Buffalo Creek Road, 1.0 mile upstream from mouth, and 12.3 miles northeast of Arminto.	5.53	1970-72	5-19-72	14.59	10
06312800	Sanchez Creek near Arminto, Wyo.	Lat 43°20'07", long 107°09'58", in NW¼SE¼ sec.21, T.39 N., R.86 W., Natrona County, on right bank about 200 ft upstream from Buffalo Creek Road and 12.3 miles northeast of Arminto. (Peaks after 1969 affected by small stockwater reservoir 0.2 mile upstream).	5.95	1961-72	5- 5-71 5-19-72	f4.27 f4.07	g22 13
06312910	Dead Horse Creek tributary near Midwest, Wyo. S (station discontinued)	Lat 43°20', long 106°32', in SE¼NW¼ sec.23, T.39 N., R.81 W., Natrona County, on right bank about 500 ft west of Dead Horse Road and 13.9 miles southwest of Midwest.	e1.5	1965-72	6- 3-72	8.59	2,040
06312920	Dear Horse Creek tributary No. 2 near Midwest, Wyo. S (station discontinued)	Lat 43°20', long 106°31', in NE¼NE¼ sec.23, T.39 N., R.81 W., Natrona County, on right bank 0.3 mile east of Dead Horse Road and 13.4 miles southwest of Midwest.	e1.3	1965-72	6- 4-72	12.51	1,470
06313020	Bobcat Creek near Edgerton, Wyo. S	Lat 43°11'55", long 106°05'25", in NW¼NW¼ sec.10, T.37 N., R.77 W., Natrona County, on left bank about 300 ft upstream from jeep road, about 600 ft south of Seven L Ranch Headquarters, and 16.7 miles southeast of Edgerton.	8.29	1965-72	8-24-72	1.55	24
06313030	Coopers Draw near Edgerton, Wyo. S	Lat 43°11'10", long 106°07'20", in SE¼SW¼ sec.8, T.37 N., R.77 W., Natrona County, on right bank 1.5 miles southwest of Seven L Ranch Headquarters and 16.8 miles southeast of Edgerton.	1.11	1965-72	8-22-72	.82	17

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06313040	Seven L Creek near Edgerton, Wyo. S	Lat 43°12'45", long 106°08'10", in NE¼NE¼ sec.6, T.37 N., R.77 W., Natrona County, on left bank about 2,000 ft east of Allemand Ranch Headquarters and 14.9 miles southeast of Edgerton.	7.10	1965-72	8-24-72	1.25	(†)
06313050	East Teapot Creek near Edgerton, Wyo. S (station discontinued)	Lat 43°10'50", long 106°12'40", in SE¼NE¼ sec.16, T.37 N., R.78 W., Natrona County, on right bank about 2 miles southwest of light duty road and 16.2 miles southeast of Edgerton.	5.44	1965-72	8-23-72	3.33	545
06313100	Coal Draw near Midwest, Wyo.	Lat 43°27'00", long 106°14'00", in NE¼SE¼ sec.8, T.40 N., R.78 W., Natrona County, at bridge on State Highway 387 and 3.4 miles northeast of Midwest.	11.4	1961-72	8-24-72	10.62	1,300
06313180	Dugout Creek tributary near Midwest, Wyo. S	Lat 43°26', long 106°25', in NE¼NW¼ sec.14, T.40 N., R.80 W., Natrona County, on left bank 1.1 miles north of Smoky Gap Road and 6.5 miles west of Midwest.	e.8	1965-72	8-24-72	4.07	302
06313630	Van Houghton Draw near Buffalo, Wyo.	Lat 44°10'40", long 106°07'25", in NE¼ sec.33, T.49 N., R.77 W., Johnson County, about 300 ft upstream from dirt road, 0.4 mile upstream from mouth, and 31 miles southeast of Buffalo.	10.8	1971-72	6-18-72	9.08	870
06313900	Caribou Creek near Buffalo, Wyo.	Lat 44°10'40", long 106°55'10", in NW¼NW¼ sec.36, T.49 N., R.84 W., Johnson County, Bighorn National Forest, at culvert on U.S. Highway 16 and 15.8 miles southwest of Buffalo.	5.08	1961-72	6- 1-72	4.79	35
06316480	Headgate Draw at upper station, near Buffalo, Wyo. S	Lat 44°31', long 106°10', in SW¼SE¼ sec.31, T.53 N., R.77 W., Johnson County, on left bank 1.5 miles upstream from bridge on Crazy Woman Creek Road and about 29 miles northeast of Buffalo.	e1.1	1965-72	6-19-72	4.16	265
06316490	Headgate Draw at lower station, near Buffalo, Wyo. S	Lat 44°29', long 106°08', in SE¼SE¼ sec.8, T.52 N., R.77 W., Johnson County, on right bank 600 ft upstream from bridge on Crazy Woman Creek Road and about 29 miles northeast of Buffalo.	e2.6	1965-72	6-19-72	6.78	(†)
06316700	Powder River tributary near Buffalo, Wyo. S	Lat 44°30', long 106°08', in NE¼NW¼ sec.9, T.52 N., R.77 W., Johnson County, on right bank 0.5 mile upstream from bridge on Crazy Woman Creek-Arvada Road and about 30 miles northeast of Buffalo.	e1.5	1965-72	7-22-72	1.70	68
06317050	Spotted Horse Creek tributary near Spotted Horse, Wyo.	Lat 44°43'10", long 105°53'10", in NW¼NE¼ sec.28, T.55 N., R.75 W., Campbell County, at culvert on U.S. Highways 14 and 16 and 2.7 miles west of Spotted Horse.	4.28	1961-72	3- -72	7.38	58
06319100	Sand Creek near Buffalo, Wyo.	Lat 44°16'38", long 106°44'42", in SW¼NE¼ sec.29, T.50 N., R.82 W., Johnson County, 3.5 miles upstream from bridge on U.S. Highway 87 and 5.5 miles southwest of Buffalo.	10.8	1969-72	4- 3-72	4.25	16

See footnotes at end of table, p. 239.

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)
Yellowstone River basin--Continued							
06324800	Little Powder River tributary near Gillette, Wyo.	Lat 44°26'50", long 105°27'40", in NE¼ sec.36, T.52 N., R.72 W., Campbell County, 145 ft upstream from culvert on State Secondary Highway 0301 and 10.6 miles north of Gillette. Prior to Oct. 1, 1969, at site 125 ft downstream at same datum.	0.81	1960-72	4-18-72	7.63	19
06324810	Box Draw tributary near Gillette, Wyo. S (station discontinued)	Lat 44°26', long 105°37', in SE¼NW¼ sec.3, T.51 N., R.73 W., Campbell County, on right bank 0.2 mile upstream from windmill by private ranch road, 2.5 miles west of U.S. Highways 14 and 16, and about 12 miles northwest of Gillette.	e.5	1965-72	6- 4-72	.19	.1
06324820	Rawhide Creek tributary near Gillette, Wyo. S (station discontinued)	Lat 44°25', long 105°34', in NW¼SE¼ sec.12, T.51 N., R.73 W., Campbell County, on right bank 1.1 miles southwest of U.S. Highways 14 and 16 and 8.7 miles north of Gillette.	e2.6	1965-72	1972		(a)
06324900	Little Powder River tributary No. 2 near Gillette, Wyo.	Lat 44°31'00", long 105°26'40", in NW¼ sec.6, T.52 N., R.71 W., Campbell County, at culvert on State Secondary Highway 0301 and 15.3 miles north of Gillette.	3.95	1959-72	4-19-71 4-18-72	g6.25 5.69	g145 81
06324910	Cow Creek tributary near Weston, Wyo.	Lat 44°32'35", long 105°21'40", in SE¼ sec.26, T.53 N., R.71 W., Campbell County, at culvert on dirt road, about 0.4 mile upstream from mouth, and about 6.6 miles south of Weston.	.72	1971-72	7-21-72	f,e4.4	e10
Cheyenne River basin							
06363700	Porcupine Creek near Turnercrest, Wyo.	Lat 43°37'40", long 105°28'00", in SW¼NE¼ sec.11, T.42 N., R.72 W., Campbell County, at bridge on State Highway 59 and 10.8 miles northeast of Turnercrest.	31.5	1959-72	1972		(a)
06378640	Lance Creek tributary near Lance Creek, Wyo. S	Lat 43°10', long 104°37', in NE¼NE¼ sec.26, T.37 N., R.65 W., Niobrara County, on left bank 350 ft upstream from culvert on county road and 9.3 miles north of Lance Creek.	e1.2	1965-72	6-15-72	.76	14
06379600	Box Creek near Bill, Wyo.	Lat 43°06'20", long 105°15'35", in SW¼SE¼ sec.9, T.36 N., R.70 W., Converse County, on left bank 12 ft downstream from bridge on State Highway 59 and 8.8 miles south of Bill.	112	1956-58 [†] , 1959, 1961-72	8-18-72	3.79	56
06382200	Pritchard Draw near Lance Creek, Wyo. S	Lat 43°12', long 104°41', in SW¼NE¼ sec.8, T.37 N., R.65 W., Niobrara County, on right bank 200 ft upstream from unmaintained road, 4.1 miles west of Lance Creek-Cow Creek Road, and 11.9 miles north of Lance Creek.	e5.1	1965-72	6-14-72	7.60	870
06385400	Cottonwood Creek at Hat Creek, Wyo.	Lat 42°56'15", long 104°21'55", in NE¼ sec.12, T.34 N., R.63 W., Niobrara County, at culvert on county road and 0.1 mile east of Hat Creek.	i14.5	1972	6-16-72	5.36	24
06387500	Turner Creek near Osage, Wyo.	Lat 44°01'10", long 104°30'10", in SW¼SE¼ sec.26, T.47 N., R.64 W., Weston County, at bridge on U.S. Highway 16 and 4.7 miles northwest of Osage.	47.8	1959-72	4-19-72	12.46	1,090

See footnotes at end of table, p. 239.

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)
Cheyenne River basin--Continued							
06388800	Blacktail Creek tributary near Newcastle, Wyo.	Lat 43°47'53", long 104°10'52", in NE¼NE¼ sec.16, T.44 N., R.61 W., Weston County, at culvert on U.S. Highway 85 and 4.1 miles south of Newcastle.	0.25	1960-72	8-19-72	9.60	80
06426195	Donkey Creek tributary above reservoir, near Gillette, Wyo.	Lat 44°16'57", long 105°25'38", in NW¼SW¼ sec.29, T.50 N., R.71 W., Campbell County, 0.1 mile upstream from culvert on U.S. Highways 14 and 16, 0.2 mile upstream from mouth, and 3.8 miles east of Gillette.	.2	1970-72	4-18-72	16.13	(†)
06426200	Donkey Creek tributary near Gillette, Wyo.	Lat 44°17'00", long 105°25'40", in SW¼NW¼ sec.29, T.50 N., R.71 W., Campbell County, at culvert on U.S. Highway 16 and 3.8 miles east of Gillette. (Peaks after 1968 affected by small stockwater reservoir 50 ft upstream.)	.28	1960-72	4-18-72	5.32	37
06427700	Inyan Kara Creek near Upton, Wyo.	Lat 44°13'45", long 104°26'45", in S¼ sec.17, T.49 N., R.63 W., Crook County, at bridge on State Highway 116 and 13.0 miles northeast of Upton.	96.5	1959-72	4-19-72	8.22	400
06427880	Barlow Creek near Devils Tower, Wyo.	Lat 44°39'00", long 104°41'53", in NW¼SW¼ sec.20, T.54 N., R.65 W., Crook County, at culvert on Tower Road, 1.8 miles downstream from Sawmill Gulch, and 4.1 miles north of Devils Tower.	21.9	1971-72	4-19-72	7.55	138
06428100	Belle Fourche River tributary No. 2 near Hulett, Wyo.	Lat 44°41'35", long 104°32'10", in SW¼SW¼ sec.3, T.54 N., R.64 W., Crook County, at culvert on State Highway 24 and 3.2 miles east of Hulett.	10.2	1962-72	4-19-72	2.75	(†)
06429300	Ogden Creek near Sundance, Wyo. S	Lat 44°27'30", long 104°21'10", in SW¼SW¼ sec.30, T.52 N., R.62 W., Crook County, on left bank 225 ft upstream from bridge on Sundance-Farrall Road and 3.9 miles northeast of Sundance. Prior to 1967 station Nos. 06429299 and 06429300 published as separate stations.	8.42	1962-72	6-17-72	1.46	30
06429375	Sundance Creek tributary above forest boundary, at Sundance, Wyo. S (station discontinued)	Lat 44°25'26", long 104°21'32", in SE¼NE¼ sec.12, T.51 N., R.63 W., Crook County, 0.1 mile upstream from major tributary and 1.6 miles northwest of Sundance.	.76	1969-72	1972		(a)
Platte River basin							
06629100	Rattlesnake Creek near Walcott, Wyo.	Lat 41°41'56", long 106°37'34", in SE¼SW¼ sec.16, T.20 N., R.82 W., Carbon County, at bridge on Overland Trail and 12.2 miles southeast of Walcott. Prior to Oct. 1, 1969, at site 20 ft upstream at same datum.	13.9	1962-72	6- 4-72	3.48	54
06629150	Coal Bank Draw tributary near Walcott, Wyo.	Lat 41°44'05", long 106°43'18", in SE¼NW¼ sec.3, T.20 N., R.83 W., Carbon County, on right bank 60 ft downstream from dirt road and 6.6 miles southeast of Walcott.	3.65	1962-72	8-24-72	9.76	346
06629200	Coal Bank Draw tributary No. 2 near Walcott, Wyo.	Lat 41°44'19", long 106°43'36", in NE¼NE¼ sec.4, T.20 N., R.83 W., Carbon County, on left bank 6.3 miles southeast of Walcott.	2.41	1962-72	8-24-72	12.78	839

See footnotes at end of table, p. 239.

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)
Platte River basin--Continued							
06629800	Coal Creek near Rawlins, Wyo.	Lat 41°45'44", long 107°16'07", in NW¼SW¼ sec.30, T.21 N., R.87 W., Carbon County, 0.2 mile upstream from State Secondary Highway 0402 and 2 miles southwest of Rawlins. Prior to June 25, 1970, at site 0.2 mile downstream at different datum.	7.34	1959-72	6- 4-72	16.84	66
06629850	Delaney Draw near Red Desert, Wyo.	Lat 41°38'18", long 108°07'26", in NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1 mile south of Red Desert and 1.3 miles upstream from culvert on Interstate Highway 80. Prior to Oct. 1, 1969, at site 1.2 miles downstream at different datum.	32.8	1961-72	4- -72	7.68	83
06630200	Big Ditch tributary near Hanna, Wyo. S	Lat 41°51'45", long 106°31'35", in SE¼ sec.21, T.22 N., R.81 W., Carbon County, at culvert on U.S. Highway 30 and 2 miles southeast of Hanna.	7.42	1959-72	9-28-72	5.82	114
06630800	Bear Creek near Elk Mountain, Wyo.	Lat 41°39'11", long 106°20'41", in NE¼NE¼ sec.2, T.19 N., R.80 W., Carbon County, at culvert on Elk Mountain-Arlington Road and 4.2 miles southeast of Elk Mountain.	8.93	1962-72	6- 4-72	7.17	48
06631100	Wagonhound Creek near Elk Mountain, Wyo.	Lat 41°38'24", long 106°18'17", in NW¼NW¼ sec.8, T.19 N., R.79 W., Carbon County, at bridge on Elk Mountain-Arlington Road, 0.1 mile upstream from West Fork, and 6.4 miles southeast of Elk Mountain.	25.6	1962-72	6- 4-72	6.87	165
06631140	Third Sand Creek tributary near Medicine Bow, Wyo. S	Lat 41°45', long 106°19', in NE¼NE¼ sec.32, T.21 N., R.79 W., Carbon County, on right bank about 50 ft upstream from mouth, 660 ft upstream from Third Sand Creek bridge on Medicine Bow-Elk Mountain Road, and 11.1 miles southwest of Medicine Bow.	.78	1965-72	6- 5-72	4.16	(+)
06631150	Third Sand Creek near Medicine Bow, Wyo. S	Lat 41°45', long 106°19', in SE¼SE¼ sec.29, T.21 N., R.79 W., Carbon County, on right bank 60 ft upstream from bridge on Medicine Bow-Elk Mountain Road and 11.0 miles southwest of Medicine Bow.	10.8	1965-72	6- 4-72	3.21	298
06632600	Threemile Creek near Arlington, Wyo.	Lat 41°33'18", long 106°10'19", in SW¼SW¼ sec.4, T.18 N., R.78 W., Carbon County, 1.7 miles upstream from Canon ditch crossing and 3.3 miles southeast of Arlington.	6.31	1962-72	6- 4-72	4.65	48
06632700	Onemile Creek near Arlington, Wyo.	Lat 41°35'08", long 106°11'26", in SW¼SW¼ sec.29, T.19 N., R.78 W., Carbon County, 200 ft upstream from bridge on Overland Trail and 1.2 miles southeast of Arlington.	3.59	1962-72	6- 4-72	1.57	(+)
06634200	Sheep Creek near Marshall, Wyo.	Lat 42°16'48", long 105°53'06", in NW¼SW¼ sec.30, T.27 N., R.75 W., Albany County, 500 ft downstream from culverts on Marshall Road and 2.4 miles southwest of Marshall. Prior to Oct. 1, 1969, at site 500 ft upstream at different datum.	61.0	1961-72	5-23-72	6.79	68
06634300	Sheep Creek near Medicine Bow, Wyo.	Lat 42°07'48", long 106°00'19", in NW¼NW¼ sec.19, T.25 N., R.76 W., Albany County, at bridge on Marshall Road and 19.5 miles northeast of Medicine Bow.	174	1961-72	5-23-72	5.83	177

See footnotes at end of table, p. 239.

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)
Platte River basin--Continued							
06634910	Medicine Bow River tributary near Hanna, Wyo. S	Lat 42°00'32", long 106°29'32", in SE¼NW¼ sec.35, T.24 N., R.81 W., Carbon County, on left bank 0.2 mile upstream from dirt road, 1.0 mile east of North Road, and 10.2 miles north-east of Hanna.	3.01	1965-72	8- 2-72	3.26	228
06634950	Willow Springs Draw tributary near Hanna, Wyo. S	Lat 41°58'30", long 106°31'50", in NE¼SW¼ sec.9, T.23 N., R.81 W., Carbon County, on left bank 0.1 mile upstream from culvert on North Road and 7.5 miles north of Hanna.	1.98	1965-72	8- 1-72	3.25	83
06638100	Sweetwater River at Sweetwater Station, near Lander, Wyo.	Lat 42°32'30", long 108°10'46", in SE¼SW¼ sec.27, T.30 N., R.95 W., Fremont County, at bridge on U.S. Highway 287, 1.2 miles downstream from Crooked Creek, and 34 miles southeast of Lander.	889	1965-72	6- 9-72	8.97	1,340
06638300	West Fork Crooks Creek near Jeffrey City, Wyo.	Lat 42°20'56", long 107°51'45", in SE¼SW¼ sec.31, T.28 N., R.92 W., Fremont County, at culvert on dirt road and 10.1 miles south of Jeffrey City.	11.6	1961-72	4- -72	4.76	51
06638350	Coal Creek near Muddy Gap, Wyo.	Lat 42°20'23", long 107°28'02", in NE¼SE¼ sec.4, T.27 N., R.89 W., Carbon County, 500 ft upstream from culvert on U.S. Highway 287 and 1.0 mile southwest of Muddy Gap. Prior to Oct. 1, 1970, at site 500 ft downstream at different datum.	6.08	1961-72	8- 1-72	15.33	69
06641400	Bear Springs Creek near Alcova, Wyo.	Lat 42°31'57", long 106°41'56", in SE¼SE¼ sec.30, T.30 N., R.82 W., Natrona County, 250 ft upstream from culvert on Kortess Road and 1.6 miles southeast of Alcova. Prior to Oct. 1, 1970, at site 250 ft downstream at same datum.	9.33	1960-72	4-18-72	12.82	235
06642700	Lawn Creek near Alcova, Wyo.	Lat 42°29'21", long 106°27'28", in SW¼SW¼ sec.8, T.29 N., R.80 W., Natrona County, at bridge on State Highway 487 and 13.9 miles southeast of Alcova.	11.5	1961-72	8-23-72	5.61	74
06642760	Stinking Creek near Alcova, Wyo.	Lat 42°32'31", long 106°27'32", in SE¼NE¼ sec.30, T.30 N., R.80 W., Natrona County, at bridge on Bates Hole Stock Trail and 13.2 miles east of Alcova.	117	1961-72	6- 5-72	5.27	300
06643300	Coal Creek near Goose Egg, Wyo.	Lat 42°42'47", long 106°32'13", in SW¼NW¼ sec.27, T.32 N., R.81 W., Natrona County, 0.2 mile upstream from culvert on State Highway 220 and 4.2 miles southwest of Goose Egg. Prior to Oct. 1, 1970, at site 0.2 mile downstream at different datums.	5.39	1960-72	5-10-72	6.52	66
06644200	Clarks Gulch near Natrona, Wyo. S (station discontinued)	Lat 42°57'13", long 106°48'28", in SW¼SW¼ sec.33, T.35 N., R.83 W., Natrona County, at culvert on Natrona Road and 5.2 miles south of Natrona.	2.64	1961-72	8- 3-72	7.18	275
06644840	McKenzie Draw tributary near Casper, Wyo. S	Lat 43°06'20", long 106°09'05", in SW¼NE¼ sec.12, T.36 N., R.78 W., Natrona County, on right bank about 2,000 ft northwest of Ormsby Road and about 22 miles northeast of Casper.	2.02	1965-72	8-24-72	3.22	64

See footnotes at end of table, p. 239.

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)
Platte River basin--Continued							
06646700	East Fork Dry Creek tributary near Glenrock, Wyo.	Lat 42°47'37", long 105°49'40", in SW¼SW¼ sec.26, T.33 N., R.75 W., Converse County, at culvert on Boxelder Road and 4.9 miles southeast of Glenrock.	2.60	1961-72	4-26-72	6.54	62
06648720	Frank Draw tributary near Orpha, Wyo. S	Lat 43°02'00", long 105°41'15", in SW¼NW¼ sec.1, T.35 N., R.74 W., Converse County, on left bank 60 ft upstream from culvert on Ross Road and about 16 miles northwest of Orpha.	.79	1965-72	5- 9-72	.44	2.0
06648780	Sage Creek tributary near Orpha, Wyo. S	Lat 43°00'35", long 105°40'00", in NE¼NW¼ sec.18, T.35 N., R.73 W., Converse County, on right bank 600 ft upstream from culvert on Ross Road and about 14 miles northwest of Orpha.	1.38	1965-72	8- 2-72	.92	51
06649900	North Platte River tributary near Douglas, Wyo.	Lat 42°41'22", long 105°23'30", in SW¼NE¼ sec.5, T.31 N., R.71 W., Converse County, at culvert on Esterbrook Road and 4.2 miles south of Douglas.	8.53	1961-72	8-18-72	7.99	615
06651800	Sand Creek near Orin, Wyo.	Lat 42°40'09", long 105°12'44", in NE¼SE¼ sec.11, T.31 N., R.70 W., Converse County, at bridge on old U.S. Highway 87 and 1.6 miles northwest of Orin.	27.8	1955, 1961-72	8-19-72	7.61	1,120
06652200	Shawnee Creek tributary near Orin, Wyo.	Lat 42°41'14", long 105°06'28", in NW¼SW¼ sec.2, T.31 N., R.69 W., Converse County, at culvert on U.S. Highway 20 and 4.6 miles northeast of Orin.	.33	1961-72	6- 5-72	5.74	c24
06652400	Watson Draw near Lost Springs, Wyo. S (station discontinued)	Lat 42°45'20", long 104°57'30", in SW¼SE¼ sec.12, T.32 N., R.68 W., Converse County, 350 ft downstream from culvert on U.S. Highway 20 and 2.1 miles southwest of Lost Springs. Prior to Sept. 30, 1963, at site 250 ft upstream at different datum.	6.95	1960-72	5-23-72	4.21	48
06655360	Deadmans Gulch near Guernsey, Wyo. S (station discontinued)	Lat 42°19'20", long 104°46'05", in SW¼SW¼ sec.10, T.27 N., R.66 W., Platte County, on right bank about 400 ft upstream from Shore Road around Guernsey Reservoir and 3.9 miles northwest of Guernsey.	.34	1965-72	1972		(a)
06655380	Fish Canyon near Guernsey, Wyo. S	Lat 42°19'00", long 104°45'45", in SE¼NW¼ sec.15, T.27 N., R.66 W., Platte County, on right bank about 200 ft upstream from Shore Road around Guernsey Reservoir and 3.4 miles northwest of Guernsey.	1.06	1965-72	6- 5-72	.42	3.6
06655750	Sparks Canyon near Hartville, Wyo. S (station discontinued)	Lat 42°19'10", long 104°43'00", in NE¼NE¼ sec.13, T.27 N., R.66 W., Platte County, on left bank about 1,800 ft upstream from Guernsey-Hartville Road and about 0.8 mile southeast of Hartville.	.74	1965-72	1972		(a)
06661580	Sevenmile Creek near Centennial, Wyo.	Lat 41°27'29", long 106°00'36", in NW¼SE¼ sec.11, T.17 N., R.77 W., Albany County, at culvert on county road and 12.7 miles northeast of Centennial.	11.2	1962-72	6- 5-72	8.00	440

See footnotes at end of table, p. 239.

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)
Platte River basin--Continued							
06667560	Piney Creek tributary at upper station, near Wheatland, Wyo. S (station discontinued)	Lat 42°11'26", long 105°12'49" in SE½SW¼ sec.26, T.26 N., R.70 W., Platte County, on right bank 100 ft east of Fletcher Park Road and about 15 miles northwest of Wheatland.	0.18	1965-72	8- 2-72	0.45	(†)
06668040	Rabbit Creek near Wheatland, Wyo. S	Lat 42°12'57", long 105°13'43", in NW¼NE¼ sec.22, T.26 N., R.70 W., Platte County, on right bank 200 ft east of Fletcher Park Road and about 17 miles northwest of Wheatland.	e1.3	1965-72	1972		(a)
06670100	Laramie River tributary near Guernsey, Wyo.	Lat 42°09'08", long 104°42'25", in N¼SW¼ sec.7, T.25 N., R.65 W., Platte County, at culvert on county road, 0.4 mile upstream from mouth, and 9.4 miles south of Guernsey.	1.97	1971-72	9- 1-72	f4.95	32
06670480	Laramie River tributary No. 2 near Fort Laramie, Wyo.	Lat 42°11'12", long 104°32'47", in SW¼NE¼ sec.33, T.26 N., R.64 W., Goshen County, 0.1 mile upstream from dirt road, 1.3 miles upstream from mouth, and 2.5 miles southwest of Fort Laramie.	8.91	1971-72	8-23-72	5.94	57
06670985	Dry Rawhide Creek near Lingle, Wyo.	Lat 42°18'14", long 104°18'18", in NE¼NE¼ sec.21, T.27 N., R.62 W., Goshen County, 400 ft upstream from culvert on U.S. Highway 85, 0.6 mile upstream from mouth, and 11.5 miles north of Lingle.	20	1969-72	1972		(a)
06675300	Horse Creek tributary near Little Bear, Wyo.	Lat 41°27'21", long 104°53'00", in NW¼SW¼ sec.10, T.17 N., R.67 W., Laramie County, at culvert on U.S. Highway 87 and 6.1 miles south of Little Bear. Prior to Sept. 30, 1966, at different datum.	8.16	1961-72	1972	(b)	c<1
06676700	South Fork Bear Creek near Little Bear, Wyo.	Lat 41°33'43", long 104°52'57", in SW¼NW¼ sec.3, T.18 N., R.67 W., Laramie County, at bridge on U.S. Highway 87 and 1.3 miles north of Little Bear.	34.2	1960-72	1972		(a)
06761600	Ninemile Draw tributary near Federal, Wyo.	Lat 41°15'05", long 105°02'34", in SE¼SE¼ sec.19, T.15 N., R.68 W., Laramie County, at culvert on State Secondary Highway 1100 and 4.0 miles southeast of Federal.	1.49	1960-72	6-11-72	f4.70	c1
06761700	Muddy Creek tributary near Burns, Wyo.	Lat 41°09'16", long 104°20'57", in NE¼NE¼ sec.30, T.14 N., R.62 W., Laramie County, at culvert on State Secondary Highway 1103 and 2.3 miles south of Burns.	24.8	1960-72	1972		(a)
06761900	Lodgepole Creek tributary near Pine Bluffs, Wyo.	Lat 41°15'23", long 104°04'50", in NE¼NE¼ sec.21, T.15 N., R.60 W., Laramie County, at culvert on State Secondary Highway 1104 and 5.0 miles north of Pine Bluffs.	.44	1960-72	7- 2-72	7.42	40
06762600	Lodgepole Creek tributary No. 2 near Albin, Wyo.	Lat 41°19'11", long 104°04'49", in SE¼SE¼ sec.28, T.16 N., R.60 W., Laramie County, at culvert on State Secondary Highway 1104 and 6.8 miles south of Albin.	5.69	1960-72	8-23-72	7.49	250

See footnotes at end of table, p. 239.

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)	Discharge (cfs)
Green River basin							
09204700	Sand Springs Draw tributary near Boulder, Wyo.	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-72	5- 7-72	(b)	cl.5
09207650	Dry Basin Creek near Big Piney, Wyo.	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-72	7-20-72	3.09	113
09211100	Green River tributary near Fontenelle, Wyo.	Lat 42°02'40", long 110°09'40", in SE¼ sec.19, T.24 N., R.112 W., Lincoln County, at culvert on U.S. Highway 189 and 6.5 miles northwest of Fontenelle.	3.75	1961-72	1972		(a)
09211300	Fourmile Gulch tributary near Fontenelle, Wyo.	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-72	1972		(a)
09216290	East Otterson Wash near Green River, Wyo.	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-72	4-14-72	7.38	310
09216350	Skunk Canyon Creek near Green River, Wyo.	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-72	1972		(a)
09216400	Greasewood Canyon near Green River, Wyo.	Lat 41°33'34", long 109°30'38", in NW¼NE¼ sec.8, T.18 N., R.107 W., Sweetwater County, 0.9 mile upstream from mouth and 3.5 miles northwest of Green River. Prior to Oct. 1, 1969, at site 0.5 mile downstream at different datum.	45.1	1959-72	4-14-72	(b)	c2
09216510	Telephone Canyon near Green River, Wyo. S (station discontinued)	Lat 41°31'07", long 109°30'14", in SE¼SE¼ sec.20, T.18 N., R.107 W., Sweetwater County, on right bank 150 ft upstream from Telephone Canyon Road and 1.9 miles southwest of Green River.	6.98	1965-72	1972		(a)
09216520	Telephone Canyon tributary near Green River, Wyo. S (station discontinued)	Lat 41°31'01", long 109°31'12", in NW¼NW¼ sec.29, T.18 N., R.107 W., Sweetwater County, on left bank near shoulder of Telephone Canyon Road and 2.7 miles southwest of Green River.	3.44	1965-72	1972		(a)
09216550	Deadman Wash near Point of Rocks, Wyo.	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	152	1962-72	4- -72	5.74	230
09216560	Bitter Creek near Point of Rocks, Wyo.	Lat 41°40'40", long 108°47'10", in SW¼ sec.27, T.20 N., R.101 W., Sweetwater County, at bridge on dirt road and 0.2 mile south of Point of Rocks.	759	1961-72	4- -72	10.20	385
09216600	Salt Wells Creek tributary near Rock Springs, Wyo. S	Lat 41°27'20", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-72	4- -72	5.79	82

See footnotes at end of table, p. 239.

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)
Green River basin--Continued							
09216700	Salt Wells Creek near Rock Springs, Wyo.	Lat 41°29'00", long 108°58'00", in NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, at bridge on old State Highway 430 and 15 miles southeast of Rock Springs. Prior to Apr. 12, 1962, at site 500 ft downstream at different datum.	515	1959-72	4- -72	4.43	230
09216900	Bitter Creek tributary near Green River, Wyo.	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-72	4-14-72	4.93	(†)
09221670	Mud Spring Hollow tributary near Lyman, Wyo. S (station discontinued)	Lat 41°22'21", long 110°09'48", in NE¼NE¼ sec.17, T.16 N., R.113 W., Uinta County, on right bank 310 ft upstream from mouth and 7.3 miles east of Lyman.	.97	1965-72	4- -72	2.00	(†)
09221680	Mud Spring Hollow near Church Butte, near Lyman, Wyo. S	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-72	4- -72	1.10	52
09224600	Blacks Fork tributary near Granger, Wyo.	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-72	4- -72	8.61	236
09224800	Meadow Springs Wash tributary near Green River, Wyo.	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-72	4- -72	2.52	90
09224810	Blacks Fork tributary No. 2 near Green River, Wyo.	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-72	4- -72	5.69	38
09224820	Blacks Fork tributary No. 3 near Green River, Wyo.	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-72	4- -72	6.16	22
09224840	Blacks Fork tributary No. 4 near Green River, Wyo.	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-72	4- -72	5.24	14
09224980	Summers Dry Creek near Green River, Wyo.	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-72	4- -72	7.10	500

See footnotes at end of table, p. 239.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Green River basin--Continued							
09225200	Squaw Hollow near Burntfork, Wyo.	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-72	4- -72	12.58	13
09225300	Green River tributary No. 2 near Burntfork, Wyo.	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, Utah, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-72	7-19-72	9.18	54
09229450	Henry's Fork tributary near Manila, Utah	Lat 41°01'14", long 109°40'46", in NW¼SE¼ sec.15, T.12 N., R.109 W., Sweetwater County, 800 ft upstream from mouth, 1.4 miles north of Wyoming-Utah State line, and 4.5 miles northeast of Manila, Utah. Prior to Apr. 30, 1970, at site 300 ft downstream at different datum.	3.15	1965-72	4-19-72	4.97	53
09258200	Dry Cow Creek near Baggs, Wyo.	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, 1.6 mile upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-72	6- 4-72	9.09	585
Bear River basin							
10019700	Whitney Canyon Creek near Evanston, Wyo.	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-72	3-21-72	5.59	49
Buffalo Fork basin							
13011800	Blackrock Creek tributary near Moran, Wyo.	Lat 43°47'10", long 110°08'30", Teton County, Teton National Forest, at culvert on U.S. Highway 26, 4.8 miles northwest of Togwotee Pass, and 23 miles east of Moran.	.80	1964-72	6- 9-72	6.07	66
Hoback River basin							
13019210	Rim Draw near Bondurant, Wyo.	Lat 43°08'00", long 110°13'40", in NE¼ sec.36, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187 and 10.8 miles southeast of Bondurant.	3.41	1964-72	5-15-72	5.60	14
13019220	Sour Moose Creek near Bondurant, Wyo.	Lat 43°09'00", long 110°15'20", in N¼ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187 and 9.5 miles southeast of Bondurant.	.70	1964-72	72	5.67	17
13019400	Cliff Creek near Bondurant, Wyo.	Lat 43°13'40", long 110°30'17", Sublette County, Teton National Forest, at bridge on Cliff Creek Road, 1.6 miles upstream from mouth, and 4.9 miles west of Bondurant.	58.6	1964-72	6- 9-72	8.84	(+)

See footnotes at end of table, p. 239.

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)
Tributaries to Snake River Between Hoback River and Greys River							
13020000	Fall Creek near Jackson, Wyo.	Lat 43°18'59", long 110°44'18", in SE¼NE¼ sec.27, T.39 N., R.116 W., Teton County, Teton National Forest, at culvert on U.S. Highway 89 and 11.3 miles south of Jackson.	46.8	1917-18† 1964-72	6- 9-72	7.13	490
13021000	Cabin Creek near Jackson, Wyo.	Lat 43°14'58", long 110°46'40", Teton County, Targhee National Forest, at culvert on U.S. Highway 89 and 16.2 miles south of Jackson.	8.71	1917-18† 1964-72	5-16-72	6.57	167
13022550	Red Creek near Alpine, Wyo.	Lat 43°11'39", long 110°55'37", Lincoln County, Targhee National Forest, at culvert on U.S. Highway 89 and 6.0 miles east of Alpine.	3.88	1964-72	6- 9-72	4.08	20
13022570	Cottonwood Creek near Alpine, Wyo. (station discontinued)	Lat 43°11'28", long 110°56'48", Lincoln County, Targhee National Forest, at culvert on U.S. Highway 89 and 5.0 miles east of Alpine.	2.40	1964-72	1965 1966 1967 1968 1969 6- 9-72	(j) (j) (j) (j) (j) 7.23	h<29 h<29 h<29 h<29 h<29 123
Salt River basin							
13023800	Fish Creek near Smoot, Wyo.	Lat 42°31'10", long 110°53'45", in NW¼NW¼ sec.9, T.29 N., R.118 W., Lincoln County, Bridger National Forest, at culvert on U.S. Highway 89 and 6.9 miles south of Smoot.	e3.6	1964-72	6- 9-72	6.59	54
Henrys Fork basin							
13050700	Mail Cabin Creek near Victor, Idaho (station discontinued)	Lat 43°29'50", long 110°59'00", in SW¼ sec.23, T.41 N., R.118 W., 6th P.M., Teton County, Wyoming, Targhee National Forest, above confluence with Trail Creek, 9.5 miles southeast of Victor.	3.27	1962-71			

† Discharge not determined.

* Operated as a continuous-record gaging station.

a No evidence of flow.

b Not determined.

c Estimate.

d Of which 0.50 sq mi is probably noncontributing.

e Approximately.

f From floodmarks.

g Revised.

h Not previously published.

i Of which 2.5 sq mi is probably noncontributing.

j Peak stage did not reach bottom of gage.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†)

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River basin						
Sunlight Creek 06206550	Clarks Fork Yellowstone River	Lat 44°45'48", long 109°25'58", in SE¼NW¼ sec.7, T.55 N., R.104 W., Park County, Shoshone National Forest, at bridge on county road, 0.1 mile downstream from Elk Creek, 2.7 miles upstream from mouth, and 16.8 miles southwest of Clark.			5- 1-72 6- 8-72 8- 9-72	76.5 1,080 *185
Pat O'Hara Creek 06206650	Clarks Fork Yellowstone River	Lat 44°43'54", long 109°13'01", in SW¼NW¼ sec.24, T.55 N., R.103 W., Park County, at bridge on county road, 0.8 mile downstream from Skull Creek, and 12 miles south of Clark.			5- 1-72 8- 1-72	13.5 *2.41
Little Wind River 06231000	Wind River	Lat 42°57'37", long 108°29'54", in NE¼SE¼ sec.22, T.1 S., R.3 E., Fremont County, Wind River Indian Reservation, at bridge on county road, 0.5 mile west of Arapahoe, and 1.2 miles upstream from Popo Agie River.	660	1906-19+ 1966-71	11-10-71 12- 3-71 1- 4-72 2- 9-72 7-31-72	165 103 71.0 83.0 72.0
Beaver Creek 06235000	Little Wind River	Lat 42°57'16", long 108°25'39", in NW¼NE¼ sec.29, T.1 S., R.4 E., Fremont County, Wind River Indian Reservation, 1.0 mile upstream from mouth and 3.8 miles east of Arapahoe.	354	1950-53+ 1968-71	11-10-71 12- 2-71 1- 3-72 2- 9-72 3-10-72 4-14-72 5-15-72 6- 8-72 7-18-72 8-11-72 9-16-72	3.45 3.05 .55 2.61 7.30 57.9 94.0 66.1 0 0 0
Muskrat Creek 06236450	Wind River	Lat 42°52'33", long 107°43'09", in SE¼NE¼ sec.34, T.34 N., R.91 W., Fremont County, at culvert on State Secondary Highway 0710, 0.3 mile upstream from Ohio Draw, 24 miles south of Moneta, and 35 miles east of Riverton.	94.1		6- 4-72	+1,110
Unnamed tributary 06238620	Oil Springs Creek	Lat 42°58'03", long 108°00'13", in SE¼NE¼NW¼ sec.32, T.35 N., R.93 W., Fremont County, at culvert on State Secondary Highway 0710 and 20 miles east of Riverton.	3.70		6- 4-72	+ 640
Dry Cheyenne Creek 06238750	Muskrat Creek	Lat 42°58'48", long 108°04'38", in SE¼SW¼NE¼ sec.27, T.35 N., R.94 W., Fremont County, at culvert on State Secondary Highway 0710 and 15 miles east of Riverton.	7.85		6- 4-72	+1,820
Bighorn River 06264700	Yellowstone River	Lat 43°44'10", long 108°09'38", in SE¼ sec.32, T.44 N., R.94 W., Hot Springs County, at bridge on Black Mountain Road, 0.7 mile upstream from Kirby Creek, 0.8 mile east of Lucerne, and 1 mile downstream from Owl Creek.		1966-71	11-10-71 2- 4-72	1,760 1,740
Bighorn River 06268600	Yellowstone River	Lat 44°00'53", long 107°58'08", in SW¼NE¼ sec.25, T.47 N., R.93 W., Washakie County, at bridge on U.S. Highway 20 at Worland and 0.5 mile downstream from Fifteen Mile Creek.	10,810	1965-69+ 1970-71	11- 9-71 3-13-72 9-10-72	1,890 2,380 1,130

See footnotes at end of table, p. 247.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River basin--Continued						
Nowood River 06270000	Bighorn River	Lat 44°00'45", long 107°25'44", in SW¼SW¼NW¼ sec.27, T.47 N., R.88 W., Washakie County, 1.8 miles southeast of Ten Sleep, and 3 miles upstream from Tensleep Creek.	803	1938-43+ 1950-56+ 1967-71	10-13-71 11- 5-71 12- 7-71 1-10-72 2- 1-72 3- 2-72 4- 4-72 5- 8-72 5- 9-72 6-16-72 7- 3-72 8- 9-72 9- 5-72 9-25-72	88.4 87.6 78.2 90.2 82.8 313 108 292 134 98.4 71.6 34.4 72.6 61.8
Paint Rock Creek 06273500	Nowood River	Lat 44°12'20", long 107°42'54", in SW¼SE¼NW¼ sec.19, T.49 N., R.90 W., Big Horn County, at bridge on county road, 0.5 mile south of State Secondary Highway 0201, 1.0 mile upstream from mouth, and 6.4 miles southwest of Hyattville. (Formerly "near Bonanza".)	376	1910-14+ 1915-23+ 1968-71	12- 6-71 1- 3-72 2- 3-72 3- 1-72 8-15-72	68.4 40.1 42.7 51.7 47.2
Nowood River 06274220	Bighorn River	Lat 44°16'34", long 107°57'35", in NE¼SW¼ sec.30, T.50 N., R.92 W., Big Horn County, at bridge on State Secondary Highway 0201 and 0.5 mile upstream from mouth near corporate limit of Manderson.	a2,000	1950-51 1965-71	12- 6-71 1- 3-72 2- 3-72 3- 1-72 6-29-72 8-15-72	248 183 169 1,250 708 110
Wood River 06274810	Greybull River	Lat 43°52'33", long 109°17'52", Park County, Shoshone National Forest, at bridge 0.1 mile northwest of Kirwin and 0.2 mile downstream from Cascade Creek.		1971	11- 3-71 12- 1-71 1- 6-72 2-10-72 3-20-72 5- 8-72 6-16-72 7-11-72 8- 8-72 9- 1-72	5.90 3.08 1.78 .94 1.24 3.02 126 60.8 *17.2 22.4
Shell Creek 06279090	Bighorn River	Lat 44°30'34", long 108°02'52", in NW¼SW¼ sec.4, T.52 N., R.93 W., Big Horn County, at bridge on county road, 0.4 mile upstream from mouth, and 1.5 miles north of post office in Greybull.	a560	1965-71	1- 6-72 2- 7-72 3-15-72 5- 3-72 6- 1-72 8-22-72	72.3 64.0 87.4 56.9 1,340 49.2
Keyes Draw 06310490	Middle Fork Powder River	Lat 43°43'00", long 106°38'35", in SW¼SE¼ sec.1, T.43 N., R.82 W., Johnson County, 0.2 mile upstream from mouth and 0.5 mile northwest of Kaycee.	3.14		6-16-72	+3,900
Unnamed tributary 06310495	Middle Fork Powder River	Lat 43°43'20", long 106°38'13", in SE¼NE¼ sec.1, T.43 N., R.82 W., Johnson County, 500 ft upstream from culvert on Interstate Highway 25 and 0.7 mile north of Kaycee.	.50		6-16-72	+154
Unnamed tributary 06311980	North Fork Powder River	Lat 43°46'48", long 106°37'29", in NE¼NE¼SW¼ sec.18, T.44 N., R.81 W., Johnson County, 100 ft upstream from culvert on Interstate Highway 25, 700 ft upstream from mouth, and 4.8 miles north of Kaycee.	.61		6-16-72	+1,320
Powder River 06312500	Yellowstone River	Lat 43°41'35", long 106°31'48", in NE¼NW¼SW¼ sec.13, T.43 N., R.81 W., Johnson County, at D Ranch, 600 ft downstream from headgate of Sussex Irrigation Canal, 2 miles downstream from confluence of North and Middle Forks, and 6 miles east of Kaycee.	a980	1933-35+ 1938-71+	11-11-71 12-15-71 1-12-72 2- 8-72 3- 9-72 4-21-72 6-14-72 7-20-72 8-16-72	121 92.4 76.6 79.7 148 208 124 1.52 1.36

See footnotes at end of table, p. 247.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972

Discharge measurements made at miscellaneous sites during water year 1972						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River basin--Continued						
South Fork Powder River 06313000	Powder River	Lat 43°37'10", long 106°34'36", in NE¼SE¼ sec.9, T.42 N., R.81 W., Johnson County, 200 ft upstream from bridge on old U.S. Highway 87, 0.6 mile upstream from bridge on Interstate Highway 25, 1.2 miles upstream from Murphy Creek, 6.6 miles southeast of Kaycee, and 7 miles upstream from mouth.	al,150	1911-12† 1938-40† 1950-69† 1970-71	10- 5-71 11- 9-71 12-15-71 1-11-72 2- 9-72 3- 8-72 4-20-72 5-16-72 6-13-72 7-19-72 8-16-72 9-13-72	1.44 15.9 .07 2.19 3.53 109 62.7 37.7 19.8 2.50 2.59 2.61
Salt Creek 06313400	Powder River	Lat 43°37'22", long 106°22'00", in NE¼NE¼SE¼ sec.8, T.42 N., R.79 W., Johnson County, at bridge in West Sussex Dugout Oil Field, 6.3 miles southwest of Sussex, and 12.6 miles upstream from mouth.	765	1967-71	10- 6-71 11-12-71 12-16-71 1-18-72 2- 7-72 3- 9-72 4-21-72 5-17-72 6-14-72 7-20-72 8-16-72 9-13-72	21.4 36.8 11.7 12.4 16.9 70.6 110 25.6 20.2 16.8 15.1 24.3
Crazy Woman Creek 06316400	Powder River	Lat 44°29'15", long 106°10'25", in NW¼ sec.18, T.52 N., R.77 W., Johnson County, on left bank 0.2 mile upstream from unnamed tributary, 4.5 miles upstream from mouth, and 11.5 miles south of Arvada.	a945	1963-70† 1971	10- 5-71 11- 2-71 11-30-71 1-17-72 1-31-72 4- 4-72 7-17-72 9-11-72	16.4 28.2 25.9 15.9 12.7 44.2 25.5 22.0
Cheyenne River basin						
Belle Fourche River 06427850	Cheyenne River	Lat 44°35'22", long 104°42'12", in NW¼SE¼SE¼ sec.7, T.53 N., R.65 W., Crook County, at bridge 0.2 mile west of entrance to Devils Tower National Monument.		1968-71	10-13-71 11-16-71 12-14-71 1-19-72 2-15-72 3-28-72 5- 3-72 5-31-72 6-27-72 8- 1-72 8-23-72 9-19-72	40.5 22.6 12.8 12.7 14.8 523 71.7 93.3 94.7 17.5 99.3 9.71
Platte River basin						
Hog Park Creek 06623820	Encampment River	Lat 41°02'01", long 106°51'33", in SW¼SE¼ sec.5, T.12 N., R.84 W., Carbon County, about 800 ft downstream from Hog Park Creek Dam and 13.2 miles southwest of Encampment.		1967-71	10-12-71 6-22-72 7-12-72 8-24-72 9-19-72	3.72 96.9 21.4 9.30 3.07
Little Medicine Bow River 06634030	Medicine Bow River	Lat 42°22'10", long 106°06'17", in NW¼NE¼SE¼ sec.30, T.28 N., R.77 W., Carbon County, at bridge on old Casper-Medicine Bow road, 3.4 miles downstream from South Fork, 3.4 miles upstream from Spring Creek, 7.0 miles northeast of Shirley Basin, and 36 miles northeast of Medicine Bow.			7-17-72 8-29-72 9-28-72	3.73 5.32 4.38
Little Medicine Bow River 06634100	Medicine Bow River	Lat 42°15'14", long 106°07'36", in NW¼NE¼SE¼ sec.1, T.26 N., R.78 W., Carbon County, at bridge on old Casper-Medicine Bow road, 4.1 miles downstream from Sand Creek, 4.9 miles southeast of Shirley Basin, and 23 miles northeast of Medicine Bow.		1971	7-17-72 8-29-72 9-28-72	7.95 12.1 10.5

[†]See footnotes at end of table, p. 247.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Platte River basin--Continued						
Little Medicine Bow River 06634600	Medicine Bow River	Lat 41°56'55", long 106°10'13", in NE¼SE¼ sec.21, T.23 N., R.78 W., Carbon County, at bridge on State Highway 487 and 3.8 miles north of Medicine Bow.	966	1960-61 1965-71	10- 6-71 1-17-72 2- 9-72 3- 9-72 4-17-72 5-15-72 6-15-72 8-15-72 9-30-72	14.4 1.73 2.54 165 54.0 257 54.5 7.01 9.23
Bates Creek 06643000	North Platte River	Lat 42°40'34", long 106°36'09", in SE¼SE¼ sec.1, T.31 N., R.82 W., Natrona County, 2.8 miles upstream from mouth and 10.5 miles northeast of Alcova.	393	1916-24+ 1928 1935-54+ 1957-61+ 1968-71	1-29-71 10- 6-71 11- 8-71 12- 6-71 1- 5-72 1-31-72 3- 2-72 4- 5-72 5- 1-72 9- 6-72	b18.3 6.94 18.6 19.7 11.1 15.1 27.8 21.9 101 5.97
Middle Fork Casper Creek 06644120	Casper Creek	Lat 43°01'10", long 106°36'30", in NE¼ sec.12, T.35 N., R.82 W., Natrona County, at culvert on county road, 0.6 mile east of Bucknum, and 10 miles east of Natrona.		1968-71	10- 5-71 11- 8-71 12- 7-71 1- 6-72 1-31-72 3- 3-72 4- 5-72 5- 1-72 8- 7-72 9- 6-72	0 .25 .16 0 0 10.6 .34 19.9 0 0
Casper Creek 06644500	North Platte River	Lat 42°50'52", long 106°21'52", in NW¼NE¼ sec.7, T.33 N., R.79 W., Natrona County, 700 ft upstream from bridge on U.S. Highways 20 and 26, 0.4 mile upstream from mouth, and 2 miles west of city hall in Casper.	c668	1946-56+ 1968-71	10-12-71 11- 1-71 12- 7-71 1- 6-72 2- 1-72 3- 2-72 4- 5-72 5- 1-72 5- 8-72 5-15-72 5-30-72 6-12-72 6-19-72 6-26-72 7-10-72 7-17-72 8- 7-72 8-14-72 8-21-72 8-28-72 9- 6-72 9-13-72	8.55 9.63 7.25 5.55 6.87 92.0 10.0 10.9 11.1 9.40 5.92 10.3 12.2 14.4 10.6 10.6 19.1 13.4 13.1 19.3 14.0 14.7
Molly Fork 06657010	North Platte River	Lat 42°14'36", long 104°34'07", in SE¼NW¼ sec.8, T.26 N., R.64 W., Goshen County, at culvert on U.S. Highway 26, 200 ft upstream from Interstate Canal, and 3.4 miles northeast of Fort Laramie.	8.05		6- 4-72	+729
Fourmile Creek 06661560	Laramie River	Lat 41°28'55", long 106°01'08", in NE¼NW¼NW¼ sec.2, T.17 N., R.77 W., Albany County, at culverts on Interstate Highway 80, 12.4 miles southeast of Arlington, and 14.0 miles northeast of Centennial.	16.1		6- 5-72	+3,660

See footnotes at end of table, p. 247.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Platte River basin--Continued						
Rawhide Creek 06670990	North Platte River	Lat 42°12'17", long 104°15'42", in SW¼SW¼ sec.24, T.26 N., R.62 W., Goshen County, near Interstate Canal crossing and 6.5 miles northeast of Lingle.		1970-71	10- 1-71 10- 8-71 10-15-71 10-22-71 11- 4-71 11- 9-71 11-16-71 11-23-71 12- 2-71 12-10-71 12-15-71 12-22-71 12-29-71 1-18-72 2-23-72 3-23-72 4-18-72 5-19-72 6-16-72 7- 7-72 7-14-72 7-21-72 7-28-72 8- 4-72 8-11-72 8-18-72 8-25-72 9- 1-72 9- 8-72 9-15-72 9-22-72 9-29-72	*2.25 *2.19 *1.99 2.39 2.95 4.08 2.95 3.07 2.63 3.92 3.29 2.76 3.72 1.60 11.7 7.13 4.18 3.58 10.5 *1.69 *9.96 1.06 1.08 .99 *.34 *.46 .61 .92 1.29 1.12 *.84 *.80
Crow Creek 06756000	South Platte River	Lat 41°07'09", long 104°45'33", in NW¼SW¼SE¼ sec.3, T.13 N., R.66 W., Laramie County, 400 ft downstream from Cheyenne Sewage Disposal Plant outlet, 1.3 miles upstream from Wyoming Hereford Ranch Reservoir No. 1, and 3.4 miles southwest of State Capitol Building in Cheyenne.	297	1922-24+ 1951-57+	7-28-72 8-31-72	13.8 10.4
Part 9 Green River basin						
Green River 09192600	Colorado River	Lat 42°34'14", long 109°56'58", in NE¼NE¼NE¼ sec.21, T.30 N., R.110 W., Sublette County, at bridge on State Secondary Highway 1801, 1.9 miles upstream from New Fork River, 8.4 miles northeast of Big Piney, and 16.2 miles southwest of Boulder.		1965-66 1968-71	1-26-72 2-27-72 3-29-72	199 211 472
Bitter Creek 09216950	Green River	Lat 41°31'25", long 109°25'41", in NE¼SE¼ sec.24, T.18 N., R.107 W., Sweetwater County, 0.3 mile south of Interstate Highway 80, 1.7 miles east of Green River, and 1.9 miles upstream from mouth.		1958 1966-71	10-10-71 1-23-72 4- 3-72	1.36 3.36 18.2
Hams Fork 09224450	Blacks Fork	Lat 41°35'56", long 109°59'28", in center of sec.30, T.19 N., R.111 W., Sweetwater County, at railroad bridge, 1.2 miles northwest of Granger, and 1.8 miles upstream from mouth.		1965-71	11-13-71 12- 5-71 1-20-72 3- 4-72 4- 6-72	34.3 17.5 11.0 45.5 226
North Fork Little Snake River diversion to Hog Park Creek 09251750	Transbasin diversion between North Fork Little Snake River and Hog Park Creek	Lat 41°02'17", long 106°53'16", in NW¼SW¼ sec.6, T.12 N., R.84 W., Carbon County, below outlet, just upstream from Hog Park Creek, and 13 miles southwest of Encampment.		1966-71	10-12-71 6-22-72 7-12-72 8-24-72 9-19-72	1.51 53.0 8.61 2.54 5.44

See footnotes at end of table, p. 247.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13 Pilgrim Creek basin						
Pilgrim Creek 13010390	Jackson Lake	Lat 43°55'54", long 110°33'34", Teton County, Teton National Forest, 0.1 mile upstream from Grand Teton National Park boundary, 0.4 mile upstream from East Fork, 3 miles upstream from bridge on U.S. Highways 89 and 287, 4.5 miles northeast of Colter Bay Village, and 6.7 miles northwest of Moran.		1968-69 1971	9-21-72	*9.72
East Fork Pilgrim Creek 13010420	Pilgrim Creek	Lat 43°55'42", long 110°33'22", Teton County, 0.6 mile above mouth, 3.6 miles north of Jackson Lake Lodge, 4.4 miles northeast of Colter Bay Village, and 6.3 miles northwest of Moran.	19.0	1960	9-21-72	*11.9
Pilgrim Creek 13010440	Jackson Lake	Lat 43°55'08", long 110°33'53", Grand Teton National Park, Teton County, 200 ft downstream from abandoned ford, 0.5 mile downstream from East Fork, 2.0 miles upstream from U.S. Highways 89 and 287 bridge, 4 miles northeast of Colter Bay Village, and 6.0 miles northwest of Moran.		1968-71	7-26-72 9-21-72	48.1 *14.1
Pilgrim Creek 13010445	Jackson Lake	Lat 43°54'54", long 110°34'22", Grand Teton National Park, Teton County, 0.5 mile downstream from abandoned ford, about 1.0 mile downstream from East Fork, 1.5 miles upstream from U.S. Highways 89 and 287 bridge, and 6.2 miles northwest of Moran.		1969-71	7-26-72 9-21-72	39.3 *10.1
Spring Creek basin						
Spring Creek 13011100	Snake River	Lat 43°51'32", long 110°35'00", in SW¼SE¼SE¼ sec.18, T.45 N., R.114 W., Grand Teton National Park, Teton County, 500 ft upstream from mouth and 4.0 miles northwest of Moran.			7-24-72	26.6
Buffalo Fork basin						
Lava Creek 13011980	Buffalo Fork	Lat 43°50'31", long 110°27'23", in NW¼NW¼NW¼ sec.29, T.45 N., R.113 W., Teton County, Teton National Forest, 750 ft upstream from bridge on U.S. Highways 26 and 287, and 2.5 miles east of Moran.			7-24-72	37.6
Cottonwood Creek basin						
Leigh Lake outlet 13012780	String Lake	Lat 43°47'54", long 110°43'40", Grand Teton National Park, Teton County, 75 ft downstream from Leigh Lake, 1.1 miles north of Jenny Lake Lodge, and 9.7 miles north of Moose.			9- 7-72	*45.2
Cascade Creek 13012790	Jenny Lake	Lat 43°45'54", long 110°44'39", Grand Teton National Park, Teton County, 800 ft upstream from mouth, 1.6 miles southwest of Jenny Lake Lodge, and 7.6 miles north of Moose.			9- 7-72	*49.4
Cottonwood Creek 13012800	Snake River	Lat 43°45'03", long 110°43'29", in SW¼NW¼ sec.25, T.44 N., R.116 W., Grand Teton National Park, Teton County, 0.1 mile south of Jenny Lake and 6.5 miles north of Moose.		1968-71	9-27-72	*71.4

See footnotes at end of table, p. 247.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13 Cottonwood Creek basin--Continued						
Cottonwood Creek 13012850	Snake River	Lat 43°43'50", long 110°44'02", in SW¼SE¼ sec.35, T.44 N., R.116 W., Grand Teton National Park, Teton County, 1.5 miles downstream from Jenny Lake and 5.0 miles north of Moose.		1968-71	9-27-72	*65.5
Cottonwood Creek 13012880	Snake River	Lat 43°41'53", long 110°43'42", in NW¼NE¼NE¼ sec.14, T.43 N., R.116 W., Grand Teton National Park, Teton County, 50 ft upstream from bridge on Teton Park Road, 2,000 ft upstream from Taggart Creek, and 3 miles north of Moose.		1971	9-22-72	*49.6
Taggart Creek 13012900	Cottonwood Creek	Lat 43°41'37", long 110°43'54", in NE¼SW¼NE¼ sec.14, T.43 N., R.116 W., Grand Teton National Park, Teton County, 20 ft upstream from culvert on Teton Park Road, 800 ft upstream from mouth, and 2.7 miles north of Moose.			9-22-72	*11.4
Beaver Creek 13012950	Cottonwood Creek	Lat 43°41'12", long 110°43'44", in NW¼SE¼SE¼ sec.14, T.43 N., R.116 W., Grand Teton National Park, Teton County, 500 ft downstream from culvert on Teton Park Road, 500 ft upstream from mouth, and 2.2 miles north of Moose.			9-22-72	*.19
Cottonwood Creek 13013000	Snake River	Lat 43°40'46", long 110°42'47", in NW¼SW¼NE¼ sec.24, T.43 N., R.116 W., Grand Teton National Park, Teton County, 1.0 mile upstream from mouth and 1.7 miles north of Moose.	72.3	1917-18*	9-22-72	*60.6
Blacktail Ponds basin						
Blacktail Ponds outlet 13013100	Snake River	Lat 43°40'05", long 110°41'54", in NW¼NE¼NW¼ sec.30, T.43 N., R.115 W., Grand Teton National Park, Teton County, 0.3 mile upstream from mouth and 1.3 miles northeast of Moose.			7-25-72	*11.8
Ditch Creek basin						
Antelope Spring 13013550	Carpenter Draw	Lat 43°42'13", long 110°36'26", in SW¼NE¼SE¼ sec.11, T.43 N., R.115 W., Teton County, Teton National Forest, 0.8 mile upstream from mouth and 5.5 miles north of Kelly.			7-25-72	*.32
Ditch Creek 13013600	Snake River	Lat 43°39'52", long 110°41'44", in NE¼SE¼NW¼ sec.30, T.43 N., R.115 W., Grand Teton National Park, Teton County, 100 ft downstream from bridge on U.S. Highways 26, 89, and 187, 0.5 mile upstream from mouth, and 1.3 miles northeast of Moose.			9-26-72	*4.31
Snake River Main Stem						
Snake River 13013650	Columbia River	Lat 43°39'15", long 110°42'52", in NW¼NW¼NE¼ sec.36, T.43 N., R.116 W., Grand Teton National Park, Teton County, at bridge on Teton Park Road and 0.2 mile east of Moose.			10-1-71	1,570

See footnotes at end of table, p. 247.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

247

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13		Stewart Draw basin				
Stewart Draw 13013800	Snake River	Lat 43°38'26", long 110°45'58", in SE¼SE¼SE¼ sec.33, T.43 N., R.116 W., Grand Teton National Park, Teton County, 100 ft upstream from bridge on Moose-Wilson Road, 0.6 mile upstream from mouth, and 2.6 miles southeast of Moose.			7-27-72	*8.53
		Gros Ventre River basin				
Gros Ventre River 13014400	Snake River	Lat 43°37'44", long 110°32'40", in NE¼SE¼SE¼ sec.5, T.42 N., R.114 W., Teton County, Teton National Forest, at bridge on private road, 2.0 miles upstream from Turpin Creek, 4 miles east of Kelly, and 14.5 miles north-east of Jackson.		1971	10-13-71	*266
Unnamed Spring 13014470	Gros Ventre River	Lat 43°37'23", long 110°36'36", in SE¼NW¼NE¼ sec.11, T.42 N., R.115 W., Teton County, at Teton Valley Ranch, 50 ft downstream from log dam, and 0.6 mile east of Kelly.			10-20-71	*6.70

* Base flow.

† Peak flow.

‡ Operated as a continuous-record gaging station.

a Approximately.

b Not previously published.

c 98 sq mi is probably noncontributing.

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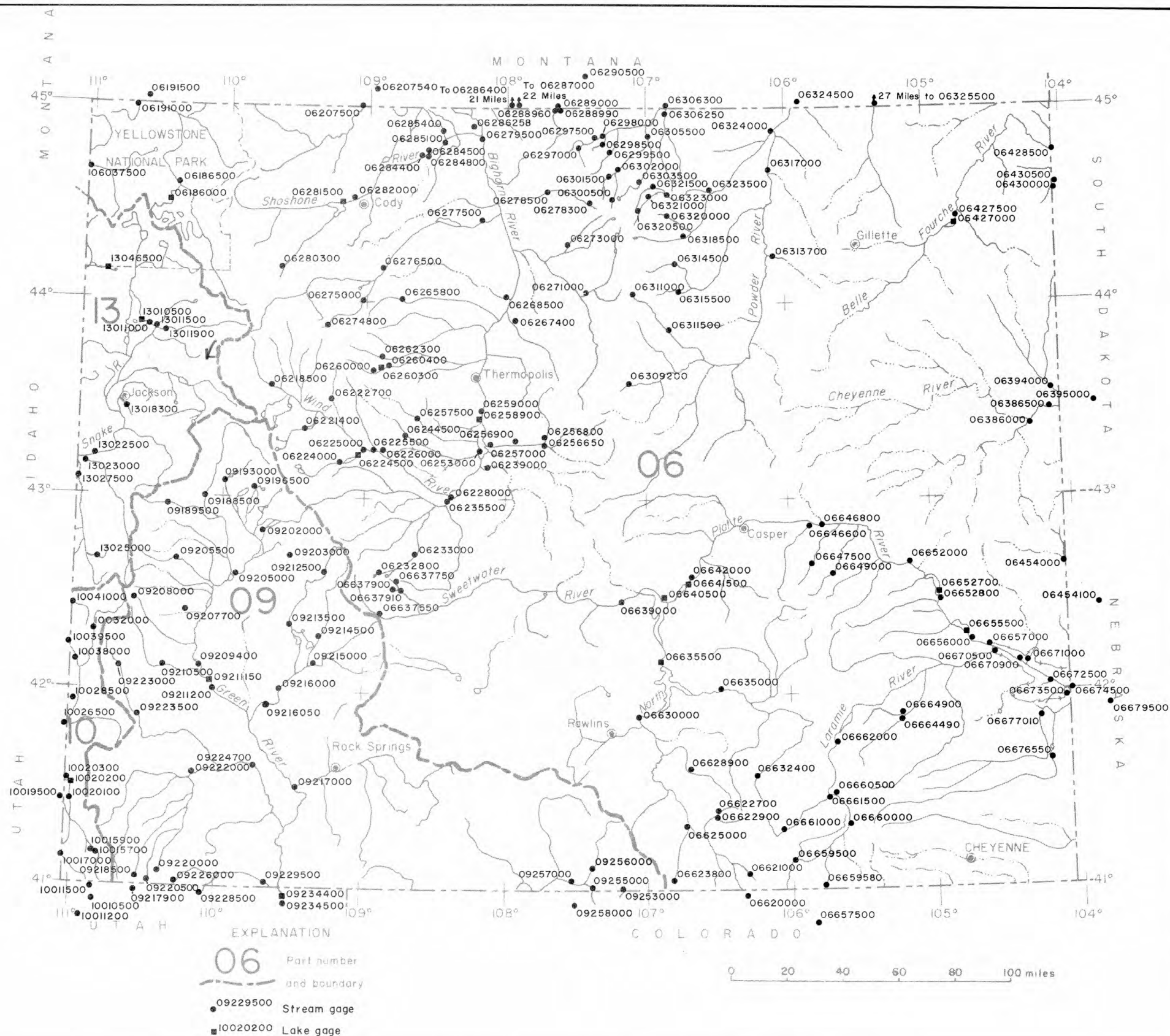


Figure 1.--Map of Wyoming showing locations of lake and stream gaging stations.



Figure 2.--Map of Wyoming showing location of partial-record stations.

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