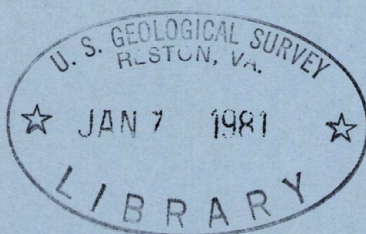


1974

K
(200)
Ga 2
Wyoming
1974
part 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 1974

1973

OCTOBER

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

NOVEMBER

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

DECEMBER

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

1974

JANUARY

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

FEBRUARY

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

MARCH

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

APRIL

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

MAY

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

JUNE

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

JULY

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

AUGUST

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

SEPTEMBER

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

1974

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 Department of Environmental Quality
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
Environmental Protection Agency

Water resources records, 1974, 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
4015 Warren Avenue
P. O. Box 2087
Cheyenne, Wyoming 82001

CONTENTS

	Page
List of surface-water stations, in downstream order, for which records are published.	IV
Introduction	1
Cooperation.	1
Definition of terms.	2
Special networks and programs.	4
Downstream order and station numbers	4
Explanation of surface-water data.	4
Collection and computation of data	4
Accuracy of data	9
Publications	9
Other data available	10
Hydrologic conditions.	10
Selected references.	11
Surface-water records.	13
Discharge at partial-record stations and miscellaneous sites . . .	216
Crest-stage partial-record stations.	216
Discharge measurements at miscellaneous sites.	229
Index.	237

ILLUSTRATIONS

Figure 1. Map of Wyoming showing location of lake and stream gaging stations.	243
2. Map of Wyoming showing location of partial-record stations	245

TABLE

Table 1. Factors for converting English Units to International System (SI) Units.	12
---	----

IV SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

Page

MISSOURI RIVER BASIN

GALLATIN RIVER BASIN

Gallatin River near Gallatin Gateway, Mont 13

YELLOWSTONE RIVER BASIN

Yellowstone Lake at Bridge Bay, Yellowstone National Park. . . . 14

Yellowstone River at Yellowstone Lake Outlet, Yellowstone
National Park. 15

Yellowstone River at Corwin Springs, Mont. 16

Clarks Fork Yellowstone River near Belfry, Mont. 17

Big Sand Coulee above State ditch, near Badger Basin, Wyo. . . 18

Big Sand Coulee at Wyoming-Montana State line. 19

Silver Tip Creek near Belfry, Mont 20

Wind River (head of Bighorn River) near Dubois, Wyo. 21

Dinwoody Creek above lakes, near Burris, Wyo 22

Crow Creek near Tipperary, Wyo 23

Bull Lake Creek above Bull Lake, Wyo 24

Bull Lake Creek near Lenore, Wyo 25

Wind River near Crowheart, Wyo 26

Wyoming Canal near Lenore, Wyo 27

Wind River near Kinnear, Wyo. 28

Wind River at Riverton, Wyo. 29

Little Wind River:

Popo Agie River:

Little Popo Agie River near Lander, Wyo. 30

Little Wind River near Riverton, Wyo 31

Fivemile Creek above Wyoming Canal, near Pavillion, Wyo. . . 32

Fivemile Creek near Shoshoni, Wyo. 33

Badwater Creek:

Dry Creek near Bonneville, Wyo 34

Muddy Creek near Shoshoni, Wyo 35

Wind River below Boysen Reservoir, Wyo 36

Bighorn River (continuation of Wind River):

South Fork Owl Creek near Anchor, Wyo. 37

South Fork Owl Creek below Anchor Reservoir, Wyo 38

North Fork Owl Creek above Basin Ranch, near Anchor, Wyo . . 39

Gooseberry Creek at Dickie, Wyo. 40

Nowater Creek:

East Fork Nowater Creek near Colter, Wyo 41

Nowood River near Ten Sleep, Wyo 42

Greybull River:

Wood River near Kirwin, Wyo. 43

Wood River at Sunshine, Wyo. 44

Greybull River at Meeteetse, Wyo 45

Shell Creek above Shell Reservoir, Wyo 46

Shell Creek near Shell, Wyo. 47

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

V

Page

MISSOURI RIVER BASIN--Continued

YELLOWSTONE RIVER BASIN--Continued

Bighorn River:--Continued

Bighorn River at Kane, Wyo 48

North Fork Shoshone River:

South Fork Shoshone River near Valley, Wyo 49

South Fork Shoshone River above Buffalo Bill

Reservoir, Wyo 50

Shoshone River below Buffalo Bill Reservoir, Wyo 51

Shoshone River at Willwood, Wyo. 52

Shoshone River near Garland, Wyo 53

Bitter Creek near Garland, Wyo 54

Whistle Creek near Garland, Wyo. 55

Shoshone River near Lovell, Wyo. 56

Sage Creek at Sidon Canal, near Deaver, Wyo. 57

Crooked Creek:

Big Coulee near Lovell, Wyo. 58

Bighorn Lake near St. Xavier, Mont 59

Bighorn River near St. Xavier, Mont. 60

Little Bighorn River at State line, near Wyola, Mont 61

Little Bighorn River below Pass Creek, near Wyola, Mont. . . 62

Tongue River near Dayton, Wyo. 63

Little Tongue River near Dayton, Wyo 64

Wolf Creek at Wolf, Wyo. 65

East Fork Big Goose Creek (head of Goose Creek) near

Big Horn, Wyo. 66

West Fork Big Goose Creek near Big Horn, Wyo 67

Big Goose Creek near Sheridan, Wyo 68

Little Goose Creek in Canyon, near Big Horn, Wyo 69

Goose Creek below Sheridan, Wyo. 70

Prairie Dog Creek near Acme, Wyo 71

Tongue River at State line, near Decker, Mont. 72

Middle Fork Powder River (head of Powder River) near

Barnum, Wyo. 73

North Fork Powder River near Hazelton, Wyo 74

North Fork Powder River below Pass Creek, near

Mayoworth, Wyo 75

Powder River:

Dead Horse Creek near Buffalo, Wyo 76

North Fork Crazy Woman Creek below Pole Creek, near

Buffalo, Wyo 77

North Fork Crazy Woman Creek near Buffalo, Wyo 78

Powder River at Arvada, Wyo. 79

Clear Creek near Buffalo, Wyo. 80

Rock Creek near Buffalo, Wyo 81

South Piney Creek (head of Piney Creek) at Willow

Park, Wyo. 82

South Piney Creek near Story, Wyo. 83

North Piney Creek near Story, Wyo. 84

VI SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

Page

MISSOURI RIVER BASIN--Continued

YELLOWSTONE RIVER BASIN--Continued

Powder River:--Continued

Clear Creek:--Continued

Piney Creek at Kearny, Wyo	85
Piney Creek at Ucross, Wyo	86
Clear Creek near Arvada, Wyo	87
Little Powder River above Dry Creek, near Weston, Wyo. . . .	88
Reservoirs in Yellowstone River basin in Wyoming	89

CHEYENNE RIVER BASIN

Cheyenne River:

Lance Creek at Spencer, Wyo.	91
Cheyenne River near Spencer, Wyo	92
Beaver Creek near Newcastle, Wyo	93
Cheyenne River at Edgemont, S. Dak	94
Keyhole Reservoir near Moorcroft, Wyo.	95
Belle Fourche River below Keyhole Reservoir, Wyo	96
Belle Fourche River at Wyoming-South Dakota State line	97
Redwater Creek:	
Murray ditch at Wyoming-South Dakota State line.	98
Redwater Creek at Wyoming-South Dakota State line.	99

NIOBRARA RIVER BASIN

Niobrara River at Wyoming-Nebraska State line.	100
Niobrara River at Agate, Nebr.	101

PLATTE RIVER BASIN

North Platte River (head of Platte River) near Northgate, Colo . .	102
North Brush Creek (head of Brush Creek) near Saratoga, Wyo . . .	103
South Brush Creek near Saratoga, Wyo	104
Encampment River above Hog Park Creek, near Encampment, Wyo. . .	105
Encampment River at mouth, near Encampment, Wyo.	106
Sage Creek near Saratoga, Wyo.	107
Pass Creek near Elk Mountain, Wyo.	108
North Platte River above Seminoe Reservoir, near Sinclair, Wyo . .	109
Medicine Bow River at Bow ranger station, near Elk Mountain, Wyo	110
East Fork Medicine Bow River near Elk Mountain, Wyo.	111
Rock Creek above King Canyon Canal, near Arlington, Wyo. . . .	112
Little Medicine Bow River near Medicine Bow, Wyo	113
Medicine Bow River above Seminoe Reservoir, near Hanna, Wyo. . .	114
Seminoe Reservoir near Leo, Wyo.	115
Sweetwater River:	
Rock Creek above Rock Creek Reservoir, Wyo	116
Rock Creek at Atlantic City, Wyo	117
Sweetwater River near Sweetwater Station, Wyo.	118
Sweetwater River near Alcova, Wyo.	119

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

VII

Page

MISSOURI RIVER BASIN--Continued

PLATTE RIVER BASIN--Continued

North Platte River:--Continued

Pathfinder Reservoir near Alcova, Wyo.	120
Alcova Reservoir at Alcova, Wyo.	121
North Platte River at Alcova, Wyo.	122
Deer Creek below Millar wasteway, at Glenrock, Wyo.	123
North Platte River near Glenrock, Wyo.	124
Box Elder Creek at Boxelder, Wyo.	125
La Prele Creek near Douglas, Wyo.	126
North Platte River at Orin, Wyo.	127
Glendo Reservoir near Glendo, Wyo.	128
North Platte River below Glendo Reservoir, Wyo.	129
Cottonwood Creek near Binford, Wyo.	130
Cottonwood Creek at Wendover, Wyo.	131
Guernsey Reservoir near Guernsey, Wyo.	132
North Platte River below Guernsey Reservoir, Wyo.	133
North Platte River at recorder station, below Whalen, Wyo.	134
Laramie River near Glendevey, Colo.	135
Laramie River and Pioneer Canal near Woods, Wyo.	136
Sand Creek at Colorado-Wyoming State line.	137
Little Laramie River near Filmore, Wyo.	138
Laramie River near Bosler, Wyo.	139
Laramie River near Lookout, Wyo.	140
Sybilie Creek above Mule Creek, near Wheatland, Wyo.	141
Bluegrass Creek near Wheatland, Wyo.	142
Laramie River above North Laramie River, near Uva, Wyo.	143
North Laramie River near Wheatland, Wyo.	144
Fish Creek near Fletcher Park, Wyo.	145
Wheatland Creek near Uva, Wyo.	146
Chugwater Creek near Uva, Wyo.	147
Laramie River near Fort Laramie, Wyo.	148
North Platte River near Lingle, Wyo.	149
Rawhide Creek near Lingle, Wyo.	150
Cherry Creek drain near Torrington, Wyo.	151
Katzer drain near Henry, Nebr.	152
North Platte River at Wyoming-Nebraska State line.	153
North Platte River at Mitchell, Nebr.	154

South Platte River:

Cache la Poudre River:

Transbasin diversions from North Platte River basin to Cache la Poudre River basin in Colorado.	155
--	-----

COLORADO RIVER BASINGREEN RIVER BASIN

Green River at Warren Bridge, near Daniel, Wyo	156
Horse Creek at Sherman ranger station, Wyo	157
New Fork River:	
Pine Creek above Fremont Lake, Wyo	158
East Fork River near Big Sandy, Wyo.	159
New Fork River near Big Piney, Wyo	160
La Barge Creek near La Barge Meadows ranger station, Wyo . . .	161
Green River near La Barge, Wyo	162
Fontenelle Creek near Herschler Ranch, near Fontenelle, Wyo. .	163
Fontenelle Reservoir near Fontenelle, Wyo.	164
Green River below Fontenelle Reservoir, Wyo.	165
Big Sandy River at Leckie Ranch, near Big Sandy, Wyo	166
Big Sandy River near Farson, Wyo	167
Little Sandy Creek above Eden, Wyo	168
Big Sandy River below Eden, Wyo.	169
Big Sandy River at Gasson Bridge, near Eden, Wyo	170
Green River near Green River, Wyo.	171
Blacks Fork near Robertson, Wyo.	172
Blacks Fork near Millburne, Wyo.	173
East Fork of Smith Fork, near Robertson, Wyo	174
West Fork of Smith Fork, near Robertson, Wyo	175
Blacks Fork near Lyman, Wyo.	176
Hams Fork below Pole Creek, near Frontier, Wyo	177
Blacks Fork near Little America, Wyo	178
Henry's Fork:	
Burnt Fork near Burntfork, Wyo	179
Henry's Fork near Manila, Utah.	180
Flaming Gorge Reservoir at Flaming Gorge Dam, Utah	181
Green River near Greendale, Utah	182
Yampa River:	
Little Snake River near Slater, Colo	183
Slater Fork near Slater, Colo.	184
Little Snake River near Dixon, Wyo	185
Willow Creek near Dixon, Wyo	186

GREAT SALT LAKE BASINBEAR RIVER BASIN

Bear River:

East Fork Bear River near Evanston, Wyo.	187
Hilliard-East Fork Canal near State line, near Evanston, Wyo	188

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

IX

Page

GREAT SALT LAKE BASIN--Continued

BEAR RIVER BASIN--Continued

Bear River:--Continued

West Fork Bear River at Whitney Dam, near Oakley, Utah	189
West Fork Bear River below Deer Creek, near Evanston, Wyo. . .	190
Bear River near Utah-Wyoming State line.	191
Sulphur Creek above reservoir, near Evanston, Wyo.	192
Sulphur Creek below reservoir, near Evanston, Wyo.	193
Yellow Creek near Evanston, Wyo.	194
Chapman Canal at State line, near Evanston, Wyo.	195
Bear River above reservoir, near Woodruff, Utah.	196
Woodruff Narrows Reservoir near Woodruff, Utah	197
Bear River below reservoir, near Woodruff, Utah.	198
Bear River near Randolph, Utah	199
Bear River below Pixley Dam, near Cokeville, Wyo	200
Smiths Fork near Border, Wyo	201
Bear River below Smiths Fork, near Cokeville, Wyo.	202
Bear River at Border, Wyo.	203
Thomas Fork near Wyoming-Idaho State line.	204

SNAKE RIVER BASIN

Snake River:

Jackson Lake near Moran, Wyo	205
Snake River near Moran, Wyo.	206

PACIFIC CREEK BASIN

Pacific Creek at Moran, Wyo.	207
--------------------------------------	-----

BUFFALO FORK BASIN

Buffalo Fork above Lava Creek, near Moran, Wyo	208
Snake River near Wilson, Wyo	209

FLAT CREEK BASIN

Flat Creek:

Cache Creek near Jackson, Wyo.	210
Snake River above reservoir, near Alpine, Wyo.	211

GREYS RIVER BASIN

Greys River above reservoir, near Alpine, Wyo.	212
--	-----

SALT RIVER BASIN

Salt River:

Swift Creek near Afton, Wyo.	213
Salt River above reservoir, near Etna, Wyo	214

HENRYS FORK BASIN

Small Reservoir in Henrys Fork basin	215
--	-----

Discharge at partial-record stations and miscellaneous sites

Crest-stage partial-record stations.	216
Discharge measurements at miscellaneous sites.	229
Index.	237

WATER RESOURCES DATA FOR WYOMING, 1974

PART 1. SURFACE-WATER RECORDS

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

INTRODUCTION

Surface-water records for the 1974 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 Sam W. West, 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, J. G. Rankl, P. B. McCollam, C. F. Obert, W. R. Glass, D. J. Pangburn, T. W. Custis, R. L. Muench, J. O. Ragsdale, M. D. Stevens, R. C. Bauman, D. J. Wangsness, L. W. Lenfest, B. C. Pedersen, M. T. O'Grady, and S. L. Green.

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

Records of discharge and stage of streams and canals, and contents and stage of lakes or reservoirs, are published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. More information is given under the heading "Publications" on page 9.

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 Department of Environmental Quality,
Arthur E. Williamson, Administrator, Water Quality Division

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, by the National Park Service, Department of the Interior, and by the Environmental Protection Agency, 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

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System of Units (SI) on page 12.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

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 about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

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 or 0.02832 cubic metres per second.

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.H.T.) 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, 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 volume of water per unit of time, flowing in a channel.

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 basins.

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 indentation, each indentation 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, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream order number "320500." In this report, the records are listed in downstream order by parts. Records in this report are in Part 6 (Missouri River basin), Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State 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 direct readings on a non-recording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15- or 30-minute intervals. Measurements of discharge are made with a current meter,

using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

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

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

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

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

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

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

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. 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.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month 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 for 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 annual rainfall over the drainage basin is usually less than 20 inches.

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

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

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

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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, and the yearly summary gives the change in contents for the calendar year and for the water year.

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.

Accuracy of data

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

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "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, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. 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 are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by the report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Wyoming for the period October 1960 to September 1965 are in Water-Supply Papers 1916, 1917, 1918, 1925, 1927, and 1934. Records for the period October 1965 to September 1970 are in Water-Supply Papers 2116, 2117, 2118, 2125, 2127, and 2134.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Wyoming are compiled in Water-Supply Papers 1309, 1310, 1313, 1314, and 1317 through September 1950, and in 1729, 1730, 1733, 1734, and 1737 for October 1950 to September 1960.

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

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. 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 1974 water year was above average in the upper Yellowstone, Clarks Fork Yellowstone, Wind, Bighorn, Tongue, North Platte, Laramie, Green, Bear, and Snake River basins. Near average runoff was recorded in the Tongue and Niobrara River basins and below average runoff was recorded in the Powder and Cheyenne River basins.

Flow in most of the large rivers was above average at the beginning of the water year and declined to near average during the winter. Warmer than average temperatures in April caused low elevation snowmelt and resulted in above average runoff in northern and eastern Wyoming streams. A cool May with an above average mountain snowpack resulted in runoff much above average in June. The Yellowstone and Gallatin Rivers experienced record high discharges from the June snowmelt in Yellowstone National Park. Wide-spread flooding could have occurred if June precipitation had not been much below average. Late summer runoff dropped to near or below normal because precipitation in August and September was below average over most of the State.

Reservoir storage in the upper Yellowstone River basin decreased 109,300 acre-feet during the year. Storage in Keyhole Reservoir, on the Belle Fourche River, decreased 18,000 acre-feet during the year. In the North Platte River basin, storage in the major reservoirs decreased 271,600 acre-feet during the year. Storage increased 381,600 acre-feet in the Green River basin, 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, reprinted 1957, Stream-gaging procedures, 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.

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

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

Multiply English units	By	To obtain SI units
Length		
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
Area		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometre (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
Volume		
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-day (ft ³ /s-day)	2447	cubic metres (m ³)
	.002447	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	.001233	cubic hectometres (hm ³)
	.000001233	cubic kilometres (km ³)
Flow		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)

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

MISSOURI RIVER BASIN

GALLATIN RIVER BASIN

06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MT.

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 mi (0.5 km) downstream from Spanish Creek, 7.3 mi (11.7 km) south of Gallatin Gateway, and at mile 42.5. (68.4 km).

DRAINAGE AREA.--825 mi² (2,137 km²).

PERIOD OF RECORD.--August 1889 to September 1894, June 1930 to September 1969, annual maximum, water years 1970-71, October 1971 to current year. 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 (1,575.11 m) above mean sea level. Prior to Oct. 20, 1932, nonrecording gages at several different sites and datums within 0.8 mi (1.3 km) of present site.

AVERAGE DISCHARGE.--47 years, 803 ft³/s (22.74 m³/s), 581,800 acre-ft/yr (717 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,690 ft³/s (274 m³/s) June 17, gage height, 7.38 ft (2.249 m); minimum daily, 260 ft³/s (7.36 m³/s) Jan. 5.

Period of record: Maximum discharge, 9,690 ft³/s (274 m³/s) June 17, 1974, gage height, 7.38 ft (2.249 m); minimum, 117 ft³/s (3.31 m³/s) Jan. 19, 1935, gage height, 0.68 ft (0.207 m).

REMARKS.--Records good. Diversions for irrigation of about 1,400 acres (5.67 km²) above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	500	439	295	347	358	408	1,070	2,960	3,480	986	671
2	548	437	446	315	346	387	408	1,160	3,160	3,320	968	673
3	552	380	401	277	342	350	394	1,120	3,610	3,230	959	666
4	533	369	415	270	344	335	387	1,170	4,160	2,840	999	657
5	532	445	366	260	348	339	399	1,350	4,130	2,790	942	680
6	524	475	384	270	332	350	412	1,700	3,830	2,690	932	637
7	518	459	427	280	335	352	402	1,680	3,450	2,630	1,190	626
8	550	469	421	280	336	350	394	1,820	2,990	2,540	1,120	618
9	537	483	344	280	334	328	414	2,040	2,680	2,430	1,010	615
10	507	487	360	280	335	341	485	2,000	2,790	2,370	948	618
11	507	506	394	300	335	345	444	1,770	3,100	2,210	904	646
12	535	579	415	320	335	360	464	1,640	3,810	1,960	880	631
13	521	642	401	350	357	375	430	1,580	5,210	1,840	873	625
14	551	543	388	387	349	352	401	1,430	6,880	1,780	905	619
15	555	509	384	410	353	348	422	1,350	7,680	1,740	894	608
16	536	500	393	428	352	375	466	1,250	8,910	1,690	826	596
17	519	499	412	405	359	560	536	1,220	8,970	1,630	795	588
18	507	498	413	363	348	492	599	1,170	8,400	1,550	776	581
19	499	482	357	358	351	446	646	1,200	7,950	1,490	771	575
20	502	401	357	369	342	351	685	1,250	8,110	1,440	805	574
21	498	465	390	350	311	382	613	1,180	7,080	1,410	781	567
22	493	443	425	331	336	398	599	1,150	5,260	1,350	747	567
23	490	407	413	351	334	375	762	1,240	5,030	1,310	732	567
24	490	444	401	360	314	375	1,020	1,400	5,100	1,260	725	561
25	499	407	395	363	324	388	1,240	1,860	5,350	1,210	714	554
26	468	398	357	363	336	403	1,400	2,350	5,140	1,150	703	548
27	490	396	368	356	342	445	1,320	3,250	4,430	1,110	695	587
28	484	407	384	353	341	478	1,110	3,820	4,040	1,060	686	574
29	504	429	373	356	-----	428	971	3,880	3,830	1,040	686	567
30	478	439	384	349	-----	426	968	3,460	3,630	1,030	681	554
31	500	-----	351	345	-----	438	-----	3,080	-----	1,020	675	-----
TOTAL	15,991	13,898	12,158	10,374	9,518	12,032	19,199	55,640	151,670	58,600	26,308	18,150
MEAN	516	463	392	335	340	388	640	1,795	5,056	1,890	849	605
MAX	555	642	446	428	359	560	1,400	3,880	8,970	3,480	1,190	680
MTN	468	369	344	260	311	328	387	1,070	2,680	1,020	675	548
AC-FT	31,700	27,570	24,120	20,580	18,880	23,870	38,080	110,400	300,800	116,200	52,180	36,000

CAL YR 1973 TOTAL 320,698 MEAN 879 MAX 5,370 MIN 260 AC-FT 636,100
 WTR YR 1974 TOTAL 403,528 MEAN 1,106 MAX 9,970 MTN 260 AC-FT 800,400

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
5-29	0200	4.33	4,190	6-17	0345	7.38	9,690
6-4	0515	4.40	4,390				

YELLOWSTONE RIVER BASIN

15

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 (137 m) downstream from Fishing Bridge, 0.2 mi (0.3 km) downstream from outlet of Yellowstone Lake, and at mile 594.8 (957.0 km).

DRAINAGE AREA.--1,006 mi² (2,606 km²).

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 (2,355.424 m) above mean sea level. Prior to Oct. 2, 1928, nonrecording gage at site 450 ft (137 m) upstream at datum 1.07 ft (0.326 m) higher.

AVERAGE DISCHARGE.--48 years (1926-74), 1,330 ft³/s (37.67 m³/s), 17.95 in/yr (456 mm/yr), 963,600 acre-ft/yr (1.19 km³/yr).

EXTREMES.--Current year: Maximum discharge, 9,170 ft³/s (260 m³/s) June 28, gage height, 8.20 ft (2.499 m); minimum daily, 385 ft³/s (10.9 m³/s) Jan. 6.

Period of record: Maximum discharge, 9,170 ft³/s (260 m³/s) June 28, 1974, gage height, 8.20 ft (2.499 m); minimum daily, 130 ft³/s (3.68 m³/s) Mar. 1-31, 1935, but may have been less during periods of ice effect; minimum gage height, 1.45 ft (0.442 m) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	615	539	430	430	470	800	764	2,280	9,090	4,290	1,940
2	822	625	530	415	430	480	820	764	2,410	9,010	4,180	1,890
3	804	615	530	400	425	480	840	769	2,590	8,950	4,070	1,860
4	792	605	521	395	425	490	840	769	2,780	8,820	3,950	1,820
5	780	625	516	390	425	500	840	780	3,070	8,630	3,850	1,780
6	769	630	507	385	420	520	834	792	3,260	8,470	3,740	1,730
7	764	625	512	390	430	520	828	810	3,460	8,310	3,690	1,700
8	764	625	494	395	430	540	816	834	3,560	8,140	3,600	1,660
9	764	625	480	400	430	550	804	864	3,630	7,990	3,460	1,630
10	753	615	480	410	430	560	792	894	3,660	7,830	3,430	1,600
11	747	620	472	420	430	580	792	928	3,720	7,620	3,340	1,530
12	747	630	480	420	430	595	785	956	3,850	7,420	3,200	1,510
13	736	635	485	440	430	600	780	977	4,030	7,260	3,130	1,490
14	720	625	494	460	430	600	770	991	4,320	7,020	3,100	1,450
15	714	635	494	460	430	610	765	1,030	4,680	6,820	2,990	1,430
16	714	620	489	460	430	615	760	1,040	5,160	6,690	2,900	1,410
17	709	615	494	450	430	620	755	1,060	5,640	6,500	2,800	1,380
18	697	625	480	440	440	625	750	1,060	6,180	6,300	2,740	1,350
19	687	615	470	440	440	630	745	1,070	6,710	6,220	2,670	1,330
20	681	605	465	440	435	640	736	1,150	7,280	6,060	2,610	1,290
21	676	600	460	440	430	650	747	1,210	7,670	5,900	2,540	1,260
22	670	600	450	440	430	660	747	1,220	7,990	5,720	2,460	1,250
23	660	595	450	430	430	670	747	1,220	8,230	5,570	2,410	1,220
24	655	580	450	430	430	670	736	1,230	8,440	5,440	2,350	1,200
25	645	575	450	430	430	680	736	1,260	8,680	5,280	2,310	1,180
26	635	566	450	430	435	700	742	1,320	8,900	5,140	2,250	1,160
27	630	561	445	430	440	720	753	1,400	9,040	4,970	2,190	1,110
28	615	552	440	430	450	740	764	1,530	9,120	4,830	2,140	1,100
29	610	548	440	430	-----	740	764	1,650	9,120	4,700	2,090	1,080
30	610	539	440	430	-----	760	764	1,720	9,120	4,570	2,050	1,090
31	610	-----	435	430	-----	780	-----	2,130	-----	4,460	2,010	-----
TOTAL	22,008	18,146	14,842	13,190	12,075	18,995	23,352	34,192	168,500	209,730	92,540	43,430
MEAN	710	605	479	425	431	613	778	1,103	5,617	6,705	2,985	1,448
MAX	828	635	539	460	450	780	840	2,130	9,120	9,090	4,290	1,940
MIN	610	539	435	385	420	470	736	764	2,280	4,450	2,010	1,080
AC-FT	43,650	35,990	29,440	26,160	23,950	37,680	46,320	67,820	334,200	416,000	183,600	86,140
CAL YR 1973	TOTAL 400,035	MEAN 1,096	MAX 3,460	MIN 435	AC-FT 793,500							
WTR YR 1974	TOTAL 671,000	MEAN 1,838	MAX 9,120	MIN 385	AC-FT 1,331,000							

NOTE.--Stage-discharge relation affected by ice Dec. 18 to Mar. 27 (no gage-height record Mar. 16-27).

YELLOWSTONE RIVER BASIN

06191500 YELLOWSTONE RIVER AT CORWIN SPRINGS, MT.

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 (6 m) downstream from highway bridge at Corwin Springs, 1.3 mi (2.1 km) upstream from Mol Herron Creek, 7 mi (11 km) northwest of Gardiner, and at mile 530.5 (853.6 km).

DRAINAGE AREA.--2,623 mi² (6,794 km²).

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 (1,548.107 m) above mean sea level. Aug. 12, 1889, to Nov. 4, 1893, nonrecording gages at site 2 mi (3 km) upstream at different datums. Sept. 2, 1910, to Apr. 19, 1935, nonrecording gages on bridge at present datum.

AVERAGE DISCHARGE.--68 years, 3,119 ft³/s (88.3 m³/s), 16.15 in/yr (410 mm/yr), 2,260,000 acre-ft/yr (2.79 km³/yr).

EXTREMES.--Current year: Maximum discharge, 30,900 ft³/s (875 m³/s) June 17, gage height, 10.71 ft (3.264 m); minimum daily, 600 ft³/s (17.0 m³/s) Jan. 10.

Period of record: Maximum discharge observed, 32,000 ft³/s (906 m³/s) June 14, 15, 1918, gage height, 11.5 ft (3.51 m), from rating curve extended above 18,000 ft³/s (510 m³/s); minimum observed, 389 ft³/s (11.0 m³/s) Feb. 23, Mar. 5, 9, 1937, gage height, 0.05 ft (0.015 m).

REMARKS.--Records good. Natural storage in Yellowstone Lake. Diversions for irrigation of about 960 acres, (3.89 km²) of which 40 acres (162,000 m²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,510	1,290	1,160	828	719	783	1,140	2,540	9,680	18,600	5,790	2,640
2	1,490	1,170	1,220	780	730	938	1,150	3,010	11,600	18,000	5,590	2,570
3	1,470	1,130	1,050	720	735	765	1,140	3,060	13,700	17,500	5,450	2,550
4	1,410	1,090	1,100	690	741	713	1,140	3,200	15,600	16,100	5,640	2,480
5	1,390	1,170	1,080	660	753	719	1,180	3,740	18,100	15,700	5,260	2,460
6	1,380	1,250	1,090	640	730	708	1,230	4,860	17,000	15,400	5,040	2,410
7	1,370	1,320	1,150	630	735	702	1,190	4,670	14,200	14,900	5,230	2,378
8	1,400	1,290	1,190	620	730	719	1,220	4,970	12,300	14,200	5,160	2,320
9	1,500	1,300	1,000	610	741	719	1,310	5,490	11,300	13,600	4,930	2,300
10	1,410	1,300	978	600	747	713	1,380	5,630	11,700	13,200	4,680	2,260
11	1,400	1,300	1,100	610	741	719	1,320	4,670	13,200	12,600	4,540	2,280
12	1,390	1,410	1,100	640	741	735	1,410	4,120	16,200	11,800	4,340	2,210
13	1,390	1,580	1,070	670	759	765	1,280	4,060	19,700	11,100	4,190	2,180
14	1,410	1,470	860	720	753	735	1,260	3,670	23,400	10,700	4,190	2,150
15	1,430	1,390	881	777	759	741	1,290	3,450	26,300	10,300	4,150	2,120
16	1,420	1,370	1,030	821	705	795	1,350	3,250	28,400	10,100	3,930	2,080
17	1,390	1,350	1,110	841	771	1,050	1,450	3,160	28,500	9,680	3,750	2,040
18	1,360	1,350	1,100	808	705	1,050	1,560	3,140	27,600	9,280	3,650	2,020
19	1,320	1,320	1,010	802	771	923	1,660	3,790	26,500	8,940	3,560	1,980
20	1,310	1,250	946	802	753	765	1,670	4,740	27,200	8,720	3,470	1,940
21	1,310	1,260	1,030	777	724	828	1,700	4,120	26,400	8,530	3,410	1,910
22	1,290	1,210	1,090	735	705	874	1,670	3,720	23,100	8,170	3,320	1,890
23	1,270	1,160	1,030	771	747	821	1,890	3,810	23,000	7,900	3,220	1,870
24	1,270	1,240	986	777	735	847	2,280	4,500	23,400	7,600	3,160	1,840
25	1,270	1,160	978	783	753	874	2,790	6,520	23,800	7,300	3,060	1,820
26	1,230	1,160	916	783	759	888	3,370	8,280	23,300	7,020	3,000	1,790
27	1,220	1,150	902	765	759	962	3,160	11,100	21,900	6,750	2,920	1,780
28	1,210	1,200	930	753	747	1,100	2,730	14,700	20,600	6,490	2,860	1,770
29	1,210	1,250	930	747	-----	1,040	2,400	14,700	20,100	6,290	2,800	1,750
30	1,180	1,220	902	713	-----	1,090	2,360	12,000	19,400	6,140	2,760	1,720
31	1,230	-----	895	691	-----	1,170	-----	9,680	-----	6,080	2,700	-----
TOTAL	41,840	38,110	31,814	22,564	20,928	26,251	50,680	172,350	597,180	338,620	125,750	63,580
MEAN	1,350	1,270	1,026	728	747	847	1,689	5,560	19,910	10,920	4,056	2,117
MAX	1,510	1,580	1,220	841	771	1,170	3,370	14,700	28,500	18,600	5,790	2,640
MIN	1,180	1,090	860	600	719	702	1,140	2,540	9,680	6,080	2,700	1,720
CFSM	.51	.48	.39	.28	.28	.32	.64	2.12	7.59	4.16	1.55	.81
IN.	.59	.54	.45	.32	.30	.37	.72	2.44	8.47	4.80	1.78	.90
AC-FT	82,990	75,590	63,100	44,760	41,510	52,070	100,500	341,900	1,185M	671,700	249,400	126,000
CAL YR 1973 TOTAL	958,453			MEAN 2,626	MAX 14,800	MIN 860	CFSM 1.00	IN 13.59	AC-FT 1,901,000			
WTR YR 1974 TOTAL	1,529,587			MEAN 4,191	MAX 28,500	MIN 600	CFSM 1.60	IN 21.69	AC-FT 3,034,000			

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
5-29	0400	7.48	16,400	6-17	0400	10.71	30,900
6-6	0100	8.12	19,200				

06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MT.

LOCATION.--Lat 45°00'40", long 109°04'00", in E½NE¼ sec.31, T.9 S., R.22 E., Carbon County, on left bank 0.4 mi (0.6 km) upstream from county road bridge and Big Sand Coulee, 0.8 mi (1.3 km) north of Wyoming-Montana State line, 9.5 mi (15.3 km) southwest of Belfry, and at mile 78.5 (126.3 km).

DRAINAGE AREA.--1,154 mi² (2,989 km²).

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 (1,210 m), 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 mi (0.6 km) downstream at different datum. July 27, 1951, to Sept. 30, 1953, water-stage recorder at present site at datum 0.98 ft (0.299 m) higher.

AVERAGE DISCHARGE.--53 years, 949 ft³/s (26.9 m³/s), 687,600 acre-ft/yr (848 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 ft³/s (297 m³/s) June 17, gage height, 8.27 ft (2.521 m) minimum daily, 160 ft³/s (4.53 m³/s) Jan. 1.

Period of record: Maximum discharge observed, 10,900 ft³/s (309 m³/s) May 26, 1928, gage height, 6.5 ft (1.98 m), site and datum then in use; minimum observed, 32 ft³/s (0.91 m³/s) Apr. 26, 1961, result of discharge measurement.

REMARKS.--Records good. Diversions for irrigation of about 11,100 acres (44.9 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	312	367	160	303	225	267	672	3,310	5,900	1,440	455
2	389	340	357	165	259	236	255	862	3,710	5,600	1,350	450
3	389	357	326	170	267	229	252	753	4,450	5,410	1,240	417
4	346	322	308	180	267	207	244	725	5,290	5,200	1,450	378
5	317	326	289	185	280	222	240	902	5,970	5,000	1,340	352
6	303	417	236	195	255	252	248	1,300	5,280	4,810	1,170	331
7	285	439	373	200	263	236	263	1,270	4,250	4,610	1,090	317
8	267	428	373	210	263	236	252	1,460	3,550	4,450	1,140	303
9	271	444	308	215	285	244	259	1,580	3,070	4,300	1,170	294
10	280	585	289	220	276	252	296	1,620	2,980	4,130	1,150	289
11	280	517	336	220	276	263	303	1,310	3,220	3,990	903	373
12	263	546	322	230	259	271	294	1,050	4,210	3,530	761	433
13	263	587	312	250	255	276	298	953	5,660	3,170	679	389
14	271	534	303	350	244	263	271	803	7,580	3,050	692	352
15	271	488	294	444	248	255	267	706	8,990	3,020	733	326
16	276	466	322	494	240	255	289	605	9,780	3,190	653	308
17	252	460	317	384	240	289	352	546	9,940	3,110	611	289
18	248	455	317	326	229	439	439	505	10,000	2,900	575	271
19	236	444	294	294	229	362	546	660	9,620	2,680	557	259
20	236	400	240	285	225	267	761	706	9,780	2,820	557	255
21	244	336	322	276	222	240	641	679	9,680	2,730	569	255
22	229	389	322	236	211	267	517	611	8,140	2,510	557	252
23	225	357	303	255	225	240	629	623	7,920	2,320	522	248
24	233	346	271	289	214	233	825	818	8,120	2,240	494	238
25	225	367	233	285	222	267	1,160	1,410	8,410	2,130	488	223
26	222	322	215	276	233	263	1,480	2,260	8,290	1,910	483	235
27	207	336	200	252	225	285	1,140	3,710	7,680	1,770	477	259
28	200	362	185	259	211	336	825	5,450	7,380	1,680	477	248
29	211	417	175	263	-----	303	679	5,910	6,650	1,500	483	235
30	222	389	170	255	-----	263	617	5,020	6,200	1,380	477	226
31	229	-----	165	271	-----	289	-----	3,820	-----	1,450	466	-----
TOTAL	8,290	12,414	8,844	8,094	6,926	8,265	14,909	49,299	198,930	102,450	24,754	9,260
MEAN	267	414	285	261	247	267	497	1,590	6,631	3,305	799	309
MAX	400	587	373	494	303	439	1,480	5,910	10,000	5,900	1,450	455
MIN	200	312	165	160	211	207	240	505	2,980	1,380	466	223
AC-FT	16,440	24,620	17,540	16,050	13,740	16,390	29,570	97,780	394,600	203,200	49,100	18,370

CAL YR 1973 TOTAL 283,285 MEAN 776 MAX 6,770 MIN 165 AC-FT 561,900
WTR YR 1974 TOTAL 452,435 MEAN 1,240 MAX 10,000 MIN 160 AC-FT 897,400

PEAK DISCHARGE (BASE, 5,400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-29	0415	6.15	6,330	6-17	0430	8.27	10,500
6-5	1000	6.10	6,240				

YELLOWSTONE RIVER BASIN

06207507 BIG SAND COULEE ABOVE STATE DITCH, NEAR BADGER BASIN, WYO.

LOCATION.--Lat 44°55'30", long 109°00'38", in NW¼SE¼NE¼ sec.14, T.57 N., R.101 W., Park County, on left bank 1.8 mi (2.9 km) upstream from return from state ditch and 3.0 mi (4.8 km) east of Badger Basin.

DRAINAGE AREA.--98.3 mi² (254.6 km²).

PERIOD OF RECORD.--May 1973 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 4,150 ft (1,265 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 15 ft³/s (0.42 m³/s) June 8, gage height, 1.50 ft (0.457 m); no flow on many days.

Period of record: Maximum discharge, 243 ft³/s (6.88 m³/s) Sept. 8, 1973, gage height, 4.89 ft (1.490 m), from rating curve extended above 10 ft³/s (0.283 m³/s) on basis of slope-area measurements at gage heights 1.98 ft (0.604 m) and 4.89 ft (1.490 m); no flow on many days.

REMARKS.--Records good except those for October, which are poor. No diversion above station. Natural flow of stream can be affected by release of wastewater from Heart Mountain Canal into headwaters. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	.41							0	1.8	0	0	0	
2	.82							0	.59	0	0	0	
3	1.2							0	0	1.5	0	0	
4	1.2							0	0	.11	0	0	
5	1.5							0	0	0	0	0	
6	1.8							0	0	0	0	0	
7	2.2							0	.30	0	0	0	
8	2.6							0	8.2	0	0	0	
9	2.6							0	3.9	.61	0	0	
10	2.4							0	2.2	1.5	0	0	
11	2.6							0	2.9	.02	.32	.50	
12	2.1							0	3.7	0	1.1	3.5	
13	1.8							0	3.5	0	1.3	2.6	
14	1.8							0	4.4	0	1.3	1.8	
15	1.8							0	2.9	0	.30	.57	
16	1.8							0	1.3	0	.06	.21	
17	1.8							0	.23	0	0	0	
18	2.2							0	.63	0	0	0	
19	2.5							0	0	0	0	0	
20	3.0							0	0	0	0	0	
21	2.9							1.0	0	0	0	0	
22	3.0							2.2	0	0	0	0	
23	2.2							2.8	0	0	0	0	
24	1.7							3.4	0	0	0	0	
25	1.2							3.9	0	0	0	.02	
26	.82							4.9	0	0	0	.91	
27	.49							4.8	0	0	0	1.1	
28	.20							4.6	0	0	0	2.1	
29	.10				-----			2.9	0	0	0	2.8	
30	0				-----			2.2	0	0	0	2.6	
31	0	-----			-----		-----	1.8	-----	0	0	-----	
TOTAL	50.74						0	0	34.5	35.95	3.74	4.38	18.71
MEAN	1.64						0	0	1.11	1.20	.12	.14	.62
MAX	3.0						0	0	4.9	8.2	1.5	1.3	3.5
MIN	0						0	0	0	0	0	0	0
AC-FT	101						0	0	68	71	7.4	8.7	37

YELLOWSTONE RIVER BASIN

19

06207510 BIG SAND COULEE AT WYOMING-MONTANA STATE LINE

LOCATION.--Lat 45°00'17", long 109°03'29", in SE¼NE¼SW¼ sec.32, T.9 S., R.22 E., Carbon County, MT., on right bank 0.3 mi (0.5 km) north of Wyoming-Montana State line and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--May 1973 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft (1,219 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 124 ft³/s (3.51 m³/s) July 4, gage height, 3.59 ft (1.094 m); minimum daily during period of operation, 1.2 ft³/s (0.034 m³/s) Apr. 18.

Period of record: Maximum discharge, 365 ft³/s (10.3 m³/s) Sept. 9, 1973, gage height, 4.75 ft (1.448 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of slope-area measurement of peak flow; minimum daily during periods of operation, 1.2 ft³/s (0.034 m³/s) Apr. 18, 1974.

REMARKS.--Records good. Natural flow of stream affected by transbasin diversions 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89					2.9	2.2	46	54	65	56	66
2	82					2.8	2.2	40	52	61	58	73
3	76					2.8	1.9	48	67	90	62	70
4	80					2.6	1.7	53	71	98	73	67
5	82					2.6	1.7	50	76	96	91	65
6	77					2.4	1.7	51	63	81	82	66
7	77					2.4	1.7	40	55	72	85	65
8	75					2.4	1.6	36	80	67	82	71
9	84					2.1	1.6	32	75	76	85	69
10	84					2.1	1.6	39	82	72	98	66
11	78					1.9	1.8	40	78	70	103	81
12	78					1.9	1.7	44	80	62	97	97
13	75					1.8	1.6	50	84	49	87	97
14	61					1.7	1.6	50	90	53	81	85
15	60					1.7	1.5	52	84	47	82	70
16	63					1.8	1.5	46	75	39	89	66
17	54					1.8	1.4	45	63	48	84	62
18	43					1.7	1.2	49	75	56	90	58
19	48					1.6	1.3	72	87	49	80	52
20	47					1.5	1.3	91	85	46	62	51
21	43					1.6	1.4	89	85	47	65	53
22	44					1.6	1.3	80	66	47	64	54
23	50					1.5	1.1	73	57	48	64	50
24	35					1.5	41	69	61	56	66	50
25	41					1.5	41	76	89	57	82	64
26	47					1.4	45	90	66	63	81	64
27	49					1.5	45	104	64	60	75	64
28	51					1.5	45	91	63	58	72	70
29	46				-----	1.6	43	91	61	58	70	69
30	51				-----	1.7	39	81	61	53	70	64
31	62	-----			-----	2.1	-----	69	-----	56	70	-----
TOTAL	1,932					60.0	345.5	1,887	2,149	1,900	2,406	1,999
MEAN	62.3					1.94	11.5	60.9	71.6	61.3	77.6	66.6
MAX	89					2.9	45	104	90	98	103	97
MIN	35					1.4	1.2	32	52	39	56	50
AC-FT	3,230					119	685	3,740	4,260	3,770	4,770	3,970

YELLOWSTONE RIVER BASIN

06207540 SILVER TIP CREEK NEAR BELFRY, MT.

LOCATION.--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 mi (0.2 km) upstream from county bridge, 1.5 mi (2.4 km) upstream from mouth, and 2.0 mi (3.2 km) north-east of Belfry.

DRAINAGE AREA.--88.0 mi² (228 km²). Area at site used prior to May 12, 1972, 87.6 mi² (227 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,830 ft (1,170 m), from topographic map. Prior to May 12, 1972, at site 0.4 mi (0.6 km) upstream at different datums.

AVERAGE DISCHARGE.--7 years, 2.22 ft³/s (0.063 m³/s), 1,610 acre-ft/yr (1.99 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 27 ft³/s (0.76 m³/s) June 8, gage height, 5.65 ft (1.722 m), from floodmark; no flow at times.

Period of record: Maximum discharge, 1,100 ft³/s (31.2 m³/s) June 9, 1972, gage height, 10.5 ft (3.200 m), from floodmark, from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of slope-area measurement of peak flow (includes 100 ft³/s or 2.83 m³/s, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.20	.30	0	.10	.40	0	.90	0	0	0	0
2	0	0	.30	0	.10	.20	0	.90	0	.80	0	0
3	0	.10	.10	0	.10	.10	0	.30	0	1.6	0	0
4	0	.10	0	0	.10	.10	0	.10	0	.20	0	0
5	0	.20	0	0	.10	.10	0	.10	.10	0	0	0
6	0	.10	0	0	0	.10	1.1	.10	.20	0	0	0
7	0	.10	0	0	0	.10	.90	.70	.50	0	0	0
8	.20	0	0	0	0	.10	1.6	.80	13	0	0	0
9	1.5	0	0	0	0	.10	1.4	.70	3.4	0	0	0
10	1.3	.30	0	0	0	.10	1.1	.90	1.0	0	0	0
11	.70	1.0	0	0	0	.10	.90	1.0	.70	0	0	1.6
12	.60	1.5	0	0	0	.10	.80	.70	.50	0	0	.80
13	.10	1.0	0	0	0	.10	1.7	.50	0	0	0	.40
14	.90	.80	0	0	0	0	5.2	.70	0	0	0	.20
15	.50	.60	0	8.0	0	0	5.2	.80	0	0	0	.10
16	.60	.50	0	15	0	0	3.6	1.0	.10	0	0	.10
17	.30	.30	0	11	0	0	2.2	1.0	.20	0	0	.10
18	0	.20	0	6.0	0	0	2.0	.90	.30	0	0	.10
19	0	.10	0	4.0	0	0	1.7	.80	.50	0	0	.10
20	.10	0	0	3.0	0	0	1.2	1.7	0	0	4.0	.10
21	.10	0	0	2.0	0	0	.80	1.8	0	0	1.9	.10
22	0	0	0	1.0	0	0	.40	1.8	0	0	.20	.10
23	.20	0	0	.40	0	0	1.3	1.4	0	0	0	.10
24	.20	0	0	.20	0	0	1.3	.40	0	0	0	.10
25	.40	0	0	.10	0	.80	.40	.30	0	0	0	.10
26	.10	0	0	.10	0	1.7	.60	1.3	0	0	0	.10
27	.20	0	0	.10	.30	.90	.90	1.2	0	0	0	.10
28	.30	.10	0	.10	.40	.30	1.3	1.0	0	0	0	0
29	.40	.20	0	.10	-----	.20	1.3	.30	0	0	0	0
30	.40	.20	0	.10	-----	0	1.1	1.0	0	0	0	0
31	.30	-----	0	.10	-----	0	-----	1.6	-----	0	0	-----
TOTAL	9.40	7.60	.70	51.30	1.20	5.60	40.00	20.70	20.50	2.80	6.10	4.30
MEAN	.30	.25	.023	1.65	.043	.18	1.33	.86	.88	.084	.20	.14
MAX	1.5	1.5	.30	15	.40	1.7	5.2	1.8	13	1.6	4.0	1.6
MIN	0	0	0	0	0	0	0	.10	0	0	0	0
AC-FT	19	15	1.4	102	2.4	11	79	53	41	5.2	12	8.5

CAL YR 1973 TOTAL 910.72 MEAN 2.50 MAX 65 MIN 0 AC-FT 1,810
WTR YR 1974 TOTAL 178.00 MEAN .48 MAX 15 MIN 0 AC-FT 349

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

YELLOWSTONE RIVER BASIN

21

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 mi (4.0 km) upstream from Warm Springs Creek and 7.0 mi (11.3 km) northwest of Dubois.

DRAINAGE AREA.--232 mi² (601 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7,188.71 ft (2,191.119 m) above mean sea level (levels by Bureau of Reclamation).

AVERAGE DISCHARGE.--29 years, 179 ft³/s (5.069 m³/s) 129,700 acre-ft/yr (160 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,850 ft³/s (52.4 m³/s) June 16, gage height, 5.42 ft (1.652 m); minimum daily, 46 ft³/s (1.30 m³/s) Nov. 2.

Period of record: Maximum discharge, 1,940 ft³/s (54.9 m³/s) June 8, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 5.66 ft (1.725 m) June 2, 1956; minimum daily discharge, 30 ft³/s (0.85 m³/s) 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 (9.31 km²), of which about 110 acres (45 hm²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	50	67	55	61	55	65	173	800	700	217	113
2	69	46	65	53	59	57	64	202	930	680	217	116
3	67	55	64	51	56	63	64	175	1,050	615	214	113
4	65	66	63	53	55	65	65	177	1,100	564	207	109
5	64	72	65	55	54	63	68	219	1,130	552	204	106
6	65	76	68	56	53	58	70	281	996	529	200	104
7	65	80	70	55	52	58	72	300	815	500	214	102
8	71	87	68	57	54	56	71	375	656	487	207	100
9	81	91	70	55	57	58	80	362	585	478	194	98
10	81	95	73	55	59	60	88	397	673	478	188	97
11	76	98	69	56	61	64	77	306	816	478	207	103
12	73	106	65	58	62	62	85	269	1,010	410	200	114
13	71	98	63	60	61	59	74	274	1,230	395	188	109
14	78	87	62	62	59	58	76	237	1,410	376	197	106
15	82	91	60	64	60	57	80	219	1,540	381	178	103
16	80	89	62	66	59	60	98	192	1,720	410	166	101
17	76	89	60	67	60	65	121	202	1,720	371	163	98
18	73	80	58	66	59	68	148	187	1,710	343	166	96
19	70	74	57	64	61	66	154	256	1,620	334	163	95
20	68	72	56	63	60	63	145	280	1,490	326	152	95
21	68	68	55	60	58	60	142	249	1,400	334	144	94
22	67	66	57	58	56	61	128	226	1,220	330	138	94
23	67	64	57	57	56	60	169	232	1,110	308	138	92
24	65	63	58	59	58	58	193	271	1,070	292	136	91
25	64	61	57	61	58	60	227	362	1,070	284	126	90
26	56	60	56	63	60	64	245	522	1,040	280	120	89
27	51	59	57	64	59	67	178	796	937	261	116	91
28	58	62	59	65	57	68	149	1,010	857	242	116	91
29	59	66	60	64	-----	67	131	1,220	813	235	116	88
30	55	69	59	63	-----	67	140	972	778	231	113	86
31	53	-----	57	62	-----	68	-----	753	-----	228	111	-----
TOTAL	2,107	2,240	1,917	1,847	1,624	1,915	3,467	11,693	33,296	12,432	5,216	2,984
MEAN	68.0	74.7	61.8	59.6	58.0	61.8	116	377	1,110	401	168	99.5
MAX	82	106	73	67	62	68	245	1,220	1,720	700	217	116
MIN	51	46	55	51	52	55	64	173	585	228	111	86
AC-FT	4,180	4,440	3,800	3,660	3,220	3,800	6,880	23,190	66,040	24,660	10,350	5,920

CAL YR 1973 TOTAL 48,581 MEAN 133 MAX 981 MIN 46 AC-FT 96,360
WTR YR 1974 TOTAL 80,738 MEAN 221 MAX 1,720 MIN 46 AC-FT 160,100

PEAK DISCHARGE (BASE, 850 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	1430	4.80	1,280
6- 4	0430	4.74	1,230
6-16	1230	5.42	1,850

YELLOWSTONE RIVER BASIN

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 mi (0.8 km) upstream from Upper Dinwoody Lake, 7.0 mi (11.3 km) west of Burris, and 17 mi (27 km) southeast of Dubois.

DRAINAGE AREA.--88.2 mi² (228 km²). Drainage area at mouth, 100 mi² (259 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,500 ft (1,981 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 144 ft³/s (4.078 m³/s), 104,300 acre-ft/yr (129 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 932 ft³/s (26.4 m³/s) June 18, gage height, 4.22 ft (1.286 m); minimum daily, 8.8 ft³/s (0.25 m³/s) Jan. 4.

Period of record: Maximum discharge, 1,400 ft³/s (39.6 m³/s) June 18, 1971, gage height, 4.57 ft (1.393 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Mar. 4, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	37	32	11	12	10	10	52	294	570	455	233
2	73	36	31	9.8	11	10	9.8	65	335	550	441	190
3	68	35	30	9.2	10	9.4	9.6	67	427	510	396	157
4	65	35	29	8.8	9.5	9.0	9.5	63	448	485	366	137
5	64	40	28	9.0	9.4	9.4	10	65	462	465	384	153
6	61	45	29	9.4	9.0	10	11	82	396	470	372	156
7	59	47	29	9.1	9.2	11	12	106	310	485	390	154
8	58	48	27	9.5	9.6	11	13	186	256	507	360	152
9	65	48	27	10	10	11	14	241	212	506	302	166
10	66	48	26	10	11	11	17	232	224	546	243	170
11	64	49	25	11	11	12	18	152	320	554	193	134
12	59	53	24	11	11	12	20	119	469	498	193	107
13	58	48	23	12	11	12	18	95	588	476	193	88
14	68	39	22	13	10	11	17	78	750	476	215	81
15	66	45	21	14	10	12	17	69	780	483	209	74
16	65	46	22	16	10	13	20	54	820	514	196	72
17	63	44	23	15	10	15	22	62	810	522	206	77
18	60	43	23	14	9.8	12	25	54	850	522	227	85
19	57	40	22	14	10	11	26	62	830	538	236	91
20	56	39	22	14	9.7	10	28	71	780	562	230	93
21	53	39	23	13	9.5	11	29	70	780	562	178	93
22	53	40	22	12	9.3	12	28	62	700	554	153	91
23	51	39	21	13	9.5	13	29	63	690	538	162	90
24	45	37	20	12	9.1	12	37	90	690	522	173	91
25	43	35	18	11	9.1	13	50	190	700	506	196	93
26	41	33	17	11	9.2	13	64	278	680	476	212	90
27	40	32	16	10	9.4	14	61	469	670	462	230	82
28	42	33	15	10	9.8	13	55	730	650	441	239	61
29	44	33	14	11	-----	12	50	730	620	408	239	57
30	40	32	13	12	-----	12	48	476	600	414	236	55
31	39	-----	12	12	-----	11	-----	325	-----	441	239	-----
TOTAL	1,762	1,218	706	356.8	278.1	357.8	777.9	5,458	17,141	15,563	8,064	3,373
MEAN	56.8	40.6	22.8	11.5	9.93	11.5	25.9	176	571	502	260	112
MAX	76	53	32	16	12	15	64	730	850	570	455	233
MIN	39	32	12	8.8	9.0	9.0	9.5	52	212	408	153	55
AC-FT	3,490	2,420	1,400	708	552	710	1,540	10,830	34,000	30,870	15,990	6,690
CAL YR 1973	TOTAL 51,319.2 MEAN 141 MAX 820 MIN 5.9 AC-FT 101,800											
WTR YR 1974	TOTAL 55,055.6 MEAN 151 MAX 850 MIN 8.8 AC-FT 109,200											

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0400	4.13	830
6-18	0730	4.22	932

YELLOWSTONE RIVER BASIN

23

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 (91 m) upstream from mouth of Crow Creek Canyon, 5.0 mi (8.0 km) north of Tipperary, and 19 mi (31 km) north of Crowheart.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 8,600 ft (2,621 m), from topographic map.

AVERAGE DISCHARGE.--12 years, 23.1 ft³/s (0.654 m³/s), 16,740 acre-ft/yr (20.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 376 ft³/s (10.6 m³/s) June 13, gage height, 4.81 ft (1.466 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Jan. 5.

Period of record: Maximum discharge, 568 ft³/s (16.1 m³/s) June 16, 1965, gage height, 5.20 ft (1.585 m), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of velocity-area study; maximum gage height, 5.54 ft (1.689 m) Feb. 18, 1966 (backwater from ice); minimum daily discharge, (0.50 ft³/s (0.014 m³/s) Feb. 2, 1970.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	4.4	4.8	3.1	3.4	3.2	2.9	29	84	60	19	6.8
2	6.3	4.3	4.6	2.9	3.5	3.1	2.9	25	116	59	21	7.2
3	6.2	4.2	4.5	2.5	3.5	3.0	2.8	21	150	48	20	6.5
4	6.0	4.1	4.4	2.2	3.4	3.1	2.8	23	156	47	34	6.5
5	6.2	4.6	4.3	2.1	3.4	3.1	2.9	38	128	47	21	6.0
6	6.0	5.2	4.3	2.2	3.3	3.2	2.9	59	98	45	16	5.8
7	6.2	5.6	4.4	2.3	3.3	3.3	3.0	71	93	42	16	5.8
8	6.3	5.8	4.4	2.4	3.5	3.3	3.2	87	68	41	14	5.5
9	6.8	6.0	4.2	2.3	3.6	3.2	3.4	74	59	40	14	5.5
10	6.3	6.0	3.9	2.3	3.7	3.1	3.7	60	77	37	16	5.2
11	6.1	6.0	3.9	2.2	3.7	3.2	4.0	44	110	34	14	6.0
12	5.9	6.0	3.8	2.4	3.6	3.1	4.5	33	175	30	12	6.8
13	6.0	6.2	3.9	2.5	3.7	3.0	3.7	32	244	29	12	5.5
14	6.0	6.4	3.9	2.7	3.6	3.0	3.7	29	244	29	12	5.2
15	6.1	6.2	4.0	2.9	3.6	3.0	4.0	24	232	29	11	5.2
16	6.2	6.0	4.2	3.0	3.5	3.1	5.5	24	185	29	10	5.5
17	6.3	5.6	4.1	3.0	3.4	3.2	6.8	19	175	30	9.8	5.5
18	6.3	5.2	3.9	2.9	3.4	3.1	9.0	23	142	24	9.4	5.5
19	6.0	4.8	3.8	2.9	3.3	3.0	10	30	118	24	9.4	5.8
20	6.0	4.8	3.7	2.8	3.3	2.9	9.0	41	130	30	9.0	5.8
21	6.0	4.7	3.8	2.7	3.3	3.0	9.0	32	104	27	9.0	5.8
22	6.0	4.7	3.8	2.7	3.3	2.9	11	29	95	24	8.3	5.5
23	6.0	4.6	3.8	2.7	3.2	2.9	18	28	93	22	7.5	5.5
24	5.8	4.6	3.7	2.8	3.2	2.8	27	34	87	21	7.5	5.2
25	5.0	4.6	3.6	2.9	3.2	2.8	34	60	86	19	6.8	5.5
26	5.0	4.7	3.7	3.0	3.3	2.8	37	112	80	17	6.8	5.2
27	5.2	4.9	3.6	2.9	3.4	2.9	28	238	76	16	6.8	5.5
28	5.2	5.0	3.6	2.9	3.4	2.9	25	289	72	16	6.5	5.2
29	5.0	5.0	3.5	3.0	-----	3.0	21	244	69	16	6.5	5.0
30	4.9	4.9	3.4	3.2	-----	3.1	21	110	65	14	6.8	5.0
31	4.7	-----	3.3	3.3	-----	3.0	-----	82	-----	16	6.5	-----
TOTAL	182.4	155.1	122.8	83.7	96.0	94.3	321.7	2,044	3,611	962	378.6	171.0
MEAN	5.88	5.17	3.96	2.70	3.43	3.04	10.7	65.9	120	31.0	12.2	5.70
MAX	6.8	6.4	4.8	3.3	3.7	3.3	37	289	244	60	34	7.2
MIN	4.7	4.1	3.3	2.1	3.2	2.8	2.8	19	59	14	6.5	5.0
AC-FT	362	308	244	166	190	187	638	4,050	7,160	1,910	751	339

CAL YR 1973 TOTAL 5,325.8 MEAN 14.6 MAX 182 MIN 2.2 AC-FT 10,560
WTR YR 1974 TOTAL 8,222.6 MEAN 22.5 MAX 289 MIN 2.1 AC-FT 16,310

PEAK DISCHARGE (BASE, 180 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-27	2230	4.78	367
6-3	2300	4.24	182
6-13	2200	4.81	376

YELLOWSTONE RIVER BASIN

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 mi (1.9 km) upstream from high-water line of Bull Lake and 9.0 mi (14.5 km) south of Crowheart.

DRAINAGE AREA.--187 mi² (484 km²).

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 (1,790 m), from topographic map.

AVERAGE DISCHARGE.--20 years (1941-53, 1966-74), 309 ft³/s (8.751 m³/s), 223,900 acre-ft/yr (276 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,320 ft³/s (65.7 m³/s) June 19, gage height, 5.98 ft (1.823 m); minimum daily, 24 ft³/s (0.68 m³/s) Feb. 24.

Period of record: Maximum discharge, 3,420 ft³/s (96.9 m³/s) June 18, 1971, gage height, 7.05 ft (2.149 m); minimum, 5.2 ft³/s (0.15 m³/s) Jan. 28, 1970, gage height, 1.44 ft (0.439 m).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	98	77	34	30	27	35	157	1,000	1,280	594	274
2	202	95	74	33	30	29	35	206	1,060	1,220	589	265
3	191	96	69	32	32	29	37	198	1,220	1,190	570	247
4	183	98	61	31	33	28	34	177	1,320	991	532	226
5	174	105	43	30	33	31	38	215	1,370	877	504	209
6	164	118	47	31	31	30	37	280	1,230	839	491	204
7	154	120	50	30	31	34	37	323	1,000	842	490	201
8	145	127	52	29	33	38	35	520	820	887	490	198
9	164	129	52	30	35	40	37	704	677	902	455	193
10	169	124	51	33	34	42	46	692	633	934	416	196
11	166	121	48	35	33	40	52	480	763	958	355	198
12	161	135	48	36	32	40	59	400	1,050	916	301	190
13	154	151	50	37	31	38	56	339	1,430	831	274	172
14	158	135	48	35	31	35	56	284	1,860	789	268	157
15	160	123	46	33	30	37	53	250	2,040	768	275	140
16	160	116	54	32	30	37	56	212	2,110	788	268	126
17	157	110	53	33	30	39	59	201	2,050	839	262	115
18	152	108	50	33	30	40	65	193	2,200	837	265	108
19	146	110	46	33	30	37	76	241	2,220	832	274	102
20	141	95	47	34	28	32	92	256	2,100	988	280	104
21	136	92	52	34	26	34	87	235	2,110	1,000	277	106
22	128	85	48	29	26	35	77	209	1,890	929	253	111
23	123	76	46	31	25	32	88	226	1,750	883	229	113
24	117	78	34	34	24	32	121	319	1,710	839	217	113
25	112	76	33	33	25	35	175	525	1,720	774	220	115
26	104	74	32	31	26	34	223	734	1,700	727	229	115
27	101	70	34	30	27	34	188	1,030	1,640	684	247	117
28	101	81	40	29	27	35	147	1,660	1,470	651	265	111
29	104	86	40	29	-----	32	128	1,890	1,380	624	274	102
30	102	79	38	29	-----	34	128	1,460	1,340	599	277	94
31	100	-----	36	29	-----	34	-----	1,080	-----	592	277	-----
TOTAL	4,544	3,111	1,499	992	833	1,074	2,357	15,696	44,863	26,810	10,718	4,722
MEAN	147	104	48.4	32.0	29.8	34.6	78.6	506	1,495	865	346	157
MAX	215	151	77	37	35	42	223	1,890	2,220	1,280	594	274
MIN	100	70	32	29	24	27	34	157	633	592	217	94
AC-FT	9,010	6,170	2,970	1,970	1,650	2,130	4,680	31,130	88,990	53,180	21,260	9,370

CAL YR 1973 TOTAL 107,802 MEAN 295 MAX 1,780 MIN 18 AC-FT 213,800
WTR YR 1974 TOTAL 117,219 MEAN 321 MAX 2,220 MIN 24 AC-FT 232,500

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0430	5.59	1,970
6-19	0800	5.98	2,320

YELLOWSTONE RIVER BASIN

25

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 (213 m) upstream from mouth, 2.8 mi (4.5 km) downstream from Bull Lake, and 8.5 mi (13.1 km) southeast of Lenore.

DRAINAGE AREA.--213 mi² (552 km²), of which 12 mi² (31.1 km²) is probably noncontributing.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,654 ft (1,723 m), from topographic map. May 18, 1918, to Sept. 30, 1922, at site 10 ft (3 m) upstream at datum 0.86 ft (0.262 m) higher; Oct. 1, 1922, to Oct. 3, 1934, at present site at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.--56 years, 282 ft³/s (7.986 m³/s), 204,300 acre-ft/yr (252 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,720 ft³/s (48.7 m³/s) June 21, gage height, 4.22 ft (1.286 m); minimum daily, 54 ft³/s (1.53 m³/s) Jan. 4.

Period of record: Maximum discharge, 6,200 ft³/s (176 m³/s) Aug. 8, 1951, gage height, 7.09 ft (2.161 m), result of automatic spillway gates releasing on Bull Lake Dam, from rating curve extended above 2,000 ft³/s (56.6 m³/s) 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. Flow completely regulated by Bull Lake 2.8 mi (4.5 km) upstream since April 1938. (See page 89.) Diversions above station for irrigation of about 730 acres (2.95 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	90	88	58	55	60	59	359	193	1,230	928	1,060
2	239	88	87	57	56	61	59	283	76	1,240	872	1,030
3	242	87	87	56	58	61	59	280	76	1,240	816	952
4	242	87	87	54	59	60	151	280	78	1,240	936	816
5	219	88	86	56	59	58	475	280	138	1,080	856	737
6	178	87	85	57	57	56	595	280	262	480	856	688
7	181	87	78	56	57	59	590	334	334	342	872	664
8	181	87	62	55	57	61	590	425	334	490	824	659
9	190	87	62	56	59	61	425	430	334	1,020	786	659
10	187	88	61	56	60	61	397	500	286	1,060	670	659
11	187	90	61	57	61	61	585	590	225	992	585	659
12	187	100	61	59	59	61	585	575	229	920	701	659
13	187	112	61	61	59	61	585	575	314	856	663	659
14	187	138	61	63	59	61	580	570	415	712	595	664
15	187	167	61	64	59	61	575	600	525	664	545	637
16	187	167	61	62	59	61	570	618	751	664	605	590
17	187	170	61	60	59	61	570	730	992	668	724	560
18	167	170	61	60	54	61	565	682	1,210	737	800	600
19	94	170	60	60	59	60	565	676	1,330	793	816	637
20	94	170	60	60	59	59	560	632	1,450	888	832	637
21	92	143	61	60	58	59	560	575	1,630	928	816	632
22	92	112	61	60	59	59	500	570	1,690	936	856	632
23	92	112	61	59	59	60	425	642	1,690	888	880	676
24	90	112	61	58	59	60	430	682	1,680	800	872	808
25	88	112	60	57	60	61	425	637	1,680	758	872	920
26	88	112	59	57	61	61	410	460	1,690	864	872	944
27	88	102	60	57	60	60	410	200	1,640	888	1,060	976
28	88	88	60	56	59	59	408	135	1,470	888	1,250	976
29	88	88	60	57	-----	59	402	128	1,270	840	1,150	984
30	88	88	61	57	-----	59	402	78	1,230	872	1,070	808
31	88	-----	60	56	-----	59	-----	78	-----	936	1,070	-----
TOTAL	4,699	3,399	2,055	1,801	1,644	1,861	13,512	13,884	25,214	26,914	26,050	22,582
MEAN	152	113	66.3	58.1	58.7	60.0	450	448	840	868	840	753
MAX	242	170	88	64	61	61	595	730	1,690	1,240	1,250	1,060
MIN	88	87	59	54	55	56	59	78	76	342	545	560
AC-FT	9,320	6,740	4,080	3,570	3,260	3,690	26,800	27,540	50,010	53,380	51,670	44,790

CAL YR 1973 TOTAL 93,063 MEAN 255 MAX 1,670 MIN 18 AC-FT 184,600
WTR YR 1974 TOTAL 143,615 MEAN 393 MAX 1,690 MIN 54 AC-FT 284,900

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 mi (1.4 km) downstream from Bull Lake Creek and 9.0 mi (14.5 km) 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	870	632	518	405	350	360	346	1,080	3,280	4,880	2,290	1,650
2	906	610	505	380	360	370	346	1,130	3,580	4,630	2,300	1,660
3	879	566	500	350	365	360	341	1,040	4,370	4,550	2,140	1,560
4	870	538	495	320	370	350	405	941	4,800	4,110	2,200	1,380
5	807	580	490	310	370	365	664	1,080	4,980	3,860	2,160	1,310
6	753	580	480	300	365	380	816	1,480	4,500	3,110	2,040	1,190
7	744	625	470	310	360	374	825	1,550	3,770	2,840	2,000	1,140
8	735	648	450	330	360	363	816	2,010	3,120	3,020	1,970	1,130
9	816	655	450	340	365	352	634	2,080	2,680	3,580	1,930	1,120
10	843	640	435	330	375	346	711	2,260	2,790	3,640	1,780	1,120
11	816	648	430	320	380	346	879	2,040	3,340	3,520	1,560	1,130
12	799	655	440	315	380	352	870	1,760	4,370	3,250	1,570	1,200
13	775	687	450	310	380	363	861	1,660	5,910	3,040	1,460	1,220
14	765	679	440	315	375	346	825	1,530	7,400	2,800	1,350	1,220
15	786	671	430	320	370	346	825	1,430	8,140	2,750	1,250	1,150
16	797	679	440	330	365	363	834	1,450	9,020	2,820	1,280	1,090
17	781	671	435	350	350	415	879	1,450	9,080	2,870	1,380	1,020
18	740	679	430	370	340	433	962	1,330	9,410	3,020	1,440	1,050
19	663	671	430	390	345	403	1,040	1,380	9,180	2,820	1,440	1,110
20	643	625	425	390	345	380	1,060	1,610	8,660	3,130	1,440	1,100
21	623	515	435	380	340	360	1,030	1,490	8,540	3,160	1,440	1,090
22	612	520	430	370	340	355	897	1,330	7,510	3,090	1,430	1,080
23	602	510	420	380	335	355	879	1,390	7,120	3,110	1,440	1,110
24	583	510	420	400	340	360	1,070	1,580	7,010	2,710	1,400	1,250
25	573	520	430	390	345	352	1,370	2,100	7,090	2,540	1,390	1,370
26	558	520	420	380	345	368	1,640	2,520	6,900	2,510	1,400	1,380
27	588	530	415	370	345	385	1,410	3,500	6,420	2,430	1,580	1,410
28	580	540	420	360	350	421	1,120	5,210	5,720	2,350	1,750	1,430
29	618	517	430	355	-----	385	991	6,480	5,330	2,280	1,670	1,410
30	610	523	430	345	-----	358	966	5,420	5,110	2,180	1,620	1,210
31	588	-----	425	350	-----	368	-----	3,540	-----	2,240	1,640	-----
TOTAL	22,323	17,944	13,818	10,865	10,010	11,434	26,312	64,851	179,130	96,840	51,740	37,290
MEAN	720	598	446	350	358	369	877	2,092	5,971	3,124	1,669	1,243
MAX	906	687	518	405	380	433	1,640	6,480	9,410	4,880	2,300	1,660
MIN	558	510	415	300	335	346	341	941	2,680	2,180	1,250	1,020
AC-FT	44,280	35,590	27,410	21,550	19,850	22,680	52,190	128,600	355,300	192,100	102,600	73,960
CAL YR 1973	TOTAL	377,683	MEAN	1,035	MAX	4,430	MIN	250	AC-FT	749,100		
WTR YR 1974	TOTAL	542,557	MEAN	1,486	MAX	9,410	MIN	300	AC-FT	1,076,000		

YELLOWSTONE RIVER BASIN

27

06226000 WYOMING CANAL NEAR LENORE, WYO.

LOCATION.--Lat 43°13'45", long 108°53'40", in SE¼SE¼ sec.17, T.3 N., R.1 W., Fremont County, on right bank 3.3 mi (5.3 km) downstream from diversion dam on Wind River and 15 mi (24 km) 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 (1,694.947 m) above mean sea level. May 1, 1941, to Sept. 30, 1945, nonrecording gage at site 3.2 mi (5.1 km) upstream at different datum. May 3, 1949, to Oct. 2, 1952, and Apr. 12 to May 15, 1971, water-stage recorder at site 3.0 mi (4.8 km) upstream at different datum.

AVERAGE DISCHARGE.--25 years, (1949-74), 545 ft³/s (15.43 m³/s), 394,900 acre-ft/yr (487 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 1,820 ft³/s (51.5 m³/s) July 1, 1972; no flow at times in most years.

REMARKS.--Records good. Flow used for irrigation and power on Riverton project. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81						0	214	1,480	1,210	1,520	1,320
2	98						0	211	1,500	1,200	1,530	1,330
3	103						0	209	1,550	1,200	1,490	1,250
4	100						24	267	1,630	1,160	1,500	1,060
5	97						341	311	1,600	1,300	1,490	880
6	96						619	368	1,620	1,500	1,400	780
7	94						707	469	1,550	1,500	1,290	740
8	94						730	491	1,530	1,500	1,320	770
9	91						429	564	1,480	1,500	1,260	728
10	71						240	783	1,400	1,500	1,100	756
11	0						691	901	1,610	1,500	1,010	780
12	0						481	886	1,610	1,500	890	815
13	0						476	946	1,610	1,500	770	838
14	0						759	988	1,630	1,500	720	835
15	0						759	1,040	1,650	1,500	712	792
16	0						686	1,060	1,670	1,510	704	738
17	0						472	1,070	1,670	1,520	808	672
18	0						435	977	1,590	1,510	865	652
19	0						262	887	1,550	1,510	902	656
20	0						110	1,020	1,710	1,550	910	654
21	0						146	1,020	1,690	1,550	910	684
22	0						245	925	1,690	1,550	910	708
23	0						289	885	1,720	1,450	902	724
24	0						265	954	1,690	1,520	950	802
25	0						260	1,130	1,200	1,480	995	908
26	0						246	1,400	1,350	1,470	1,000	930
27	0						225	1,520	1,480	1,490	1,100	932
28	0						224	1,530	1,120	1,510	1,360	935
29	0				-----		213	1,580	1,160	1,530	1,350	935
30	0				-----		216	1,590	1,220	1,500	1,300	774
31	0	-----			-----		-----	1,490	-----	1,520	1,310	-----
TOTAL	925	0	0	0	0	0	10,550	27,686	45,960	45,240	34,278	25,378
MEAN	29.8	0	0	0	0	0	352	893	1,532	1,459	1,106	846
MAX	103	0	0	0	0	0	759	1,590	1,720	1,550	1,530	1,330
MIN	0	0	0	0	0	0	0	209	1,120	1,160	704	652
AC-FT	1,830	0	0	0	0	0	20,930	54,920	91,160	89,730	67,990	50,340
CAL YR 1973	TOTAL 154,355.00		MEAN 423		MAX 1,720	MIN 0	AC-FT 306,200					
WTR YR 1974	TOTAL 190,017.00		MEAN 521		MAX 1,720	MIN 0	AC-FT 376,900					

YELLOWSTONE RIVER BASIN

06227600 WIND RIVER NEAR KINNEAR, WYO.

LOCATION.--Lat 43°08'34", long 108°42'32", in SW¼SE¼SW¼ sec.13, T.2 N., R.1 E., Fremont County, Wind River Indian Reservation, on right bank, at upstream side of bridge on Wyoming State Secondary Highway 132, and 1.7 mi (2.7 km) southwest of Kinnear.

DRAINAGE AREA.--2,194 mi² (5,682 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 5,280 ft (1,609 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 8,540 ft³/s (242 m³/s) June 19, gage-height, 7.23 ft (2.204 m); minimum daily during period of operation, 270 ft³/s (7.50 m³/s) Apr. 6.

REMARKS.--Records good. Some regulation by Bull Lake beginning in 1938 (see page 89) and Pilot Butte Reservoir beginning in 1926, combined capacity, 182,000 acre-ft (224 hm³). Diversions above station for irrigation of about 102,100 acres (413 km²) 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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							350	1,050	2,340	3,480	718	458
2							335	1,080	2,440	3,170	776	458
3							310	1,090	3,090	3,120	641	449
4							300	889	3,560	2,790	652	440
5							300	901	3,750	2,680	685	512
6							270	1,310	3,450	1,900	580	550
7							285	1,010	2,780	1,490	696	540
8							280	1,390	2,200	1,490	610	458
9							380	1,600	1,650	2,000	663	476
10							620	1,580	1,750	2,160	674	476
11							510	1,410	2,010	2,200	550	432
12							540	1,080	3,020	2,040	590	449
13							940	889	4,260	1,770	652	476
14							550	742	5,500	1,490	620	485
15							375	396	6,250	1,340	540	458
16							330	379	7,040	1,310	540	424
17							520	370	7,490	1,410	560	408
18							770	297	7,820	1,380	590	440
19							990	378	7,850	1,340	550	503
20							1,410	570	7,580	1,510	570	503
21							1,300	493	7,430	1,650	521	476
22							1,150	388	6,720	1,590	540	440
23							870	390	6,070	1,590	570	440
24							1,000	557	5,790	1,310	503	458
25							1,200	490	5,890	1,120	424	512
26							1,620	1,240	5,640	1,090	416	485
27							1,750	1,960	5,220	938	424	521
28							1,290	3,920	4,590	899	512	530
29							1,050	5,300	4,050	810	449	550
30							454	4,670	3,720	750	458	540
31								2,520		718	449	
TOTAL							22,749	41,159	140,970	52,535	17,723	14,347
MEAN							758	1,328	4,699	1,695	572	478
MAX							1,750	5,300	7,850	3,480	776	550
MIN							270	297	1,650	718	416	408
AC-FT							45,120	81,640	279,600	104,200	35,150	28,460

YELLOWSTONE RIVER BASIN

29

06228000 WIND RIVER AT RIVERTON, WYO.

LOCATION.--Lat 43°00'38", long 108°22'32", in NE¼NW¼NW¼ sec.2, T.1 S., R.4 E., Fremont County, Wind River Indian Reservation, on left bank 265 ft (81 m) downstream from bridge on State Highway 789, 1.1 mi (1.8 km) southeast of post office in Riverton, and 1.5 mi (2.4 km) upstream from Little Wind River.

DRAINAGE AREA.--2,309 mi² (5,980 km²).

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 (1,494.605 m) 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 (85 m) upstream at same datum. Apr. 16 to Nov. 17, 1968, water-stage recorder at site 880 ft (268 m) upstream at same datum. Nov. 18, 1968, to July 28, 1970, water-stage recorder at site 225 ft (69 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 7,880 ft³/s (223 m³/s) June 19, gage height, 7.66 ft (2.335 m); minimum daily, 21 ft³/s (0.59 m³/s) May 19, 23.

Period of record: Maximum discharge, 13,300 ft³/s (377 m³/s) June 15, 1935, gage height, 8.15 ft (2.484 m), from rating curve extended above 7,200 ft³/s (204 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) May 18, 1955.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Bull Lake beginning in 1938 (see page 89) and Pilot Butte Reservoir beginning in 1926, combined capacity, 182,000 acre-ft (224 hm³). Diversions above station for irrigation of about 128,000 acres (518 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	706	628	555	250	375	410	393	742	1,530	3,000	368	180
2	694	652	555	230	380	440	373	814	1,480	2,690	400	208
3	718	580	515	220	380	500	372	814	2,040	2,790	405	218
4	718	540	475	210	375	500	267	652	2,560	2,360	344	205
5	718	525	460	210	365	470	215	550	2,840	2,190	368	218
6	676	570	464	205	350	460	192	796	2,800	1,540	320	284
7	652	622	479	205	340	420	223	904	1,980	1,050	360	300
8	640	652	495	208	340	410	218	1,090	1,500	953	300	242
9	700	664	461	218	350	400	308	1,330	939	1,340	336	246
10	876	664	445	225	360	410	666	1,200	834	1,560	400	264
11	953	652	450	245	365	420	395	1,100	1,100	1,600	340	225
12	925	670	457	270	375	415	429	718	1,790	1,480	264	280
13	918	706	451	290	380	410	749	485	3,080	1,250	360	328
14	883	700	446	310	375	402	304	400	4,630	981	372	324
15	897	700	427	325	370	371	271	159	5,700	815	300	304
16	918	706	449	340	365	387	259	68	6,460	775	253	300
17	925	694	478	350	360	412	432	36	6,900	846	264	280
18	883	706	469	370	350	486	609	29	7,040	860	320	256
19	706	706	458	380	345	476	783	21	7,430	857	284	320
20	676	676	420	375	335	416	1,140	116	7,000	995	272	344
21	670	622	419	370	330	366	1,080	101	6,490	1,180	246	328
22	664	525	439	365	325	356	885	39	5,930	1,200	242	284
23	652	540	463	380	320	364	651	21	5,160	1,170	239	280
24	640	525	451	390	318	360	793	60	4,830	918	232	308
25	622	515	396	390	330	380	991	231	4,810	712	153	356
26	619	490	310	380	375	392	1,310	456	4,630	694	93	348
27	603	485	280	365	430	407	1,400	981	4,420	592	73	372
28	579	490	290	355	420	423	1,020	2,430	3,920	545	147	410
29	613	525	280	350	-----	458	831	4,210	3,380	465	124	420
30	646	555	270	360	-----	398	752	4,700	3,150	380	144	415
31	604	-----	260	370	-----	385	-----	2,410	-----	380	150	-----
TOTAL	22,694	18,285	13,267	9,511	10,083	12,904	18,311	27,663	116,353	38,168	8,473	8,847
MEAN	732	610	428	307	360	416	610	892	3,878	1,231	273	295
MAX	953	706	555	390	430	500	1,400	4,700	7,430	3,000	405	420
MIN	579	485	260	205	318	356	192	21	834	380	73	180
AC-FT	45,010	36,270	26,320	18,870	20,000	25,600	36,320	54,870	230,800	75,710	16,810	17,550

CAL YR 1973 TOTAL 215,747 MEAN 591 MAX 4,390 MIN 42 AC-FT 427,900
WTR YR 1974 TOTAL 304,559 MEAN 834 MAX 7,430 MIN 21 AC-FT 604,100

YELLOWSTONE RIVER BASIN

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 (213 m) downstream from bridge on State Highway 28, 2.5 mi (4.0 km) downstream from Red Canyon Creek, and 9.5 mi (15.3 km) southeast of post office in Lander.

DRAINAGE AREA.--125 mi² (324 km²).

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 (1,657.042 m) above mean sea level.

AVERAGE DISCHARGE.--25 years (1946-71), 80.3 ft³/s (2.274 m³/s), 58,180 acre-ft/yr (71.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 715 ft³/s (20.2 m³/s) June 16, gage height, 4.75 ft (1.448 m); minimum daily during period of operation, 34 ft³/s (0.96 m³/s) Sept. 27.

Period of record: Maximum discharge, 2,010 ft³/s (56.9 m³/s) June 16, 1963, gage height, 6.64 ft (2.024 m); minimum daily, 12 ft³/s (0.34 m³/s) 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 (2.19 km²) above station. Slight regulation by Christina Lake, capacity, about 3,860 acre-ft (4.76 hm³).

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

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							36	160	418	208	72	57
2							36	172	421	200	78	61
3							36	155	436	212	76	61
4							37	158	451	188	72	59
5							37	178	454	170	72	57
6							37	202	397	158	66	57
7							43	228	358	148	61	57
8							37	280	319	145	61	55
9							45	358	295	135	61	54
10							45	397	280	130	72	54
11							45	349	307	128	64	54
12							50	331	361	118	59	61
13							48	289	427	108	55	63
14							50	256	522	103	52	63
15							48	230	568	101	63	61
16							50	212	608	103	70	59
17							50	215	582	106	68	57
18							61	225	554	103	68	57
19							76	247	510	110	64	55
20							97	247	451	115	63	55
21							82	225	451	110	63	55
22							76	210	385	106	61	55
23							99	208	355	103	59	55
24							168	210	328	92	59	46
25							228	250	316	86	59	37
26							230	313	301	80	57	36
27							185	400	286	76	57	36
28							150	526	244	72	59	37
29							135	595	230	78	59	36
30							140	496	220	76	59	34
31								433		72	59	
TOTAL							2,457	8,755	11,835	3,740	1,968	1,584
MEAN							81.9	282	395	121	63.5	52.8
MAX							230	595	608	212	78	63
MIN							36	155	220	72	52	34
AC-FT							4,870	17,370	23,470	7,420	3,900	3,140

PEAK DISCHARGE (BASE, 350 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-25	2030	3.79	352	5-29	0230	4.63	655
5-9	2200	4.09	442	6-16	0300	4.75	715

YELLOWSTONE RIVER BASIN

31

06235500 LITTLE WIND RIVER NEAR RIVERTON, WYO.

LOCATION.--Lat 42°59'51", long 108°22'29", in NE¼NW¼ sec.11, T.1 S., R.4 E., Fremont County, Wind River Indian Reservation, on right bank 1.8 mi (2.9 km) upstream from mouth and 1.9 mi (3.1 km) southeast of Riverton.

DRAINAGE AREA.--1,904 mi² (4,931 km²).

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 (1,494.081 m) above mean sea level. Prior to Sept. 19, 1956, at site 600 ft (183 m) downstream at same datum.

AVERAGE DISCHARGE.--33 years, 598 ft³/s (16.94 m³/s), 433,300 acre-ft/yr (534 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,510 ft³/s (128 m³/s) June 16, gage height, 6.54 ft (1.993 m); minimum daily, 182 ft³/s (5.15 m³/s) Aug. 27.

Period of record: Maximum discharge, 14,700 ft³/s (416 m³/s) June 17, 1963, gage height, 10.85 ft (3.307 m); minimum daily, 41 ft³/s (1.16 m³/s) Aug. 7, 1960.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 62,900 acres (255 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	748	500	440	265	365	710	306	730	2,480	1,600	289	193
2	740	490	440	240	360	1,200	302	783	2,400	1,480	270	213
3	694	470	400	220	345	840	290	881	2,580	1,560	298	232
4	695	450	375	215	335	530	286	805	2,870	1,520	297	232
5	702	435	350	210	320	470	278	777	3,040	1,330	324	233
6	687	465	330	205	315	480	274	857	3,010	1,200	319	228
7	657	560	335	215	320	490	270	928	2,450	1,100	273	230
8	617	604	350	225	330	475	266	1,120	2,150	1,010	255	217
9	623	592	370	225	340	465	266	1,630	1,820	927	270	209
10	741	586	375	220	345	375	278	2,070	1,540	867	429	206
11	738	568	380	215	355	372	354	1,780	1,430	835	450	199
12	706	568	390	225	365	382	390	1,480	1,630	750	404	237
13	669	610	380	250	375	382	405	1,300	2,210	690	363	313
14	645	636	365	280	385	377	410	1,080	3,150	623	336	315
15	662	568	355	320	390	372	415	902	3,890	590	311	303
16	631	550	360	350	400	346	368	717	4,340	549	302	290
17	622	544	370	370	415	346	354	586	4,180	514	294	276
18	611	539	345	395	425	382	354	544	4,040	495	263	275
19	596	539	320	405	435	420	382	568	4,080	507	238	264
20	596	522	300	400	430	386	500	655	3,750	673	223	259
21	581	480	315	395	425	330	790	630	3,570	788	211	272
22	566	455	335	380	420	334	675	534	3,230	817	217	277
23	543	430	360	370	420	306	562	483	2,870	678	229	285
24	521	430	350	360	450	306	616	475	2,640	584	226	283
25	507	420	335	345	470	306	820	604	2,430	513	217	278
26	504	405	325	335	500	318	1,180	1,000	2,330	456	205	271
27	486	390	315	325	550	310	1,520	1,570	2,230	403	182	271
28	489	390	310	335	630	306	1,250	2,530	2,030	359	185	333
29	505	410	315	345	-----	306	946	3,600	1,870	351	190	324
30	490	430	305	360	-----	314	766	3,760	1,640	329	193	303
31	500	-----	295	370	-----	302	-----	3,060	-----	318	189	-----
TOTAL	19,072	15,036	10,890	9,370	11,215	13,238	15,873	38,442	81,880	24,416	8,452	7,821
MEAN	615	501	351	302	401	427	529	1,240	2,729	788	273	261
MAX	748	636	440	405	630	1,200	1,520	3,760	4,340	1,600	450	333
MIN	486	390	295	205	315	302	266	475	1,430	318	182	193
AC-FT	37,830	29,820	21,600	18,590	22,240	26,260	31,480	76,250	162,400	48,430	16,760	15,510
CAL YR 1973	TOTAL 300,032		MEAN 822		MAX 4,300		MIN 135		AC-FT 595,100			
WTR YR 1974	TOTAL 255,705		MEAN 701		MAX 4,340		MIN 182		AC-FT 507,200			

PEAK DISCHARGE (BASE, 3,200 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-29	2100	6.39	4,200
6-16	1715	6.54	4,510

YELLOWSTONE RIVER BASIN

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

LOCATION (revised).--Lat 43°18'05", long 108°42'08", in SE&SW&SE& sec.24, T.4 N., R.1 E., Fremont County, on left bank 1,700 ft (518 m) upstream from Wyoming Canal siphon and 4.0 mi (6.4 km) north of Pavillion. Prior to April 24, at site 300 ft (91 m) downstream.

DRAINAGE AREA.--118 mi² (306 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m), from topographic map. Aug. 27, 1948, to Mar. 28, 1950, at site 0.2 mi (0.3 km) downstream at different datum. Mar. 29, 1950, to Apr. 23, 1974, at site 300 ft (91 m) downstream at present datum.

AVERAGE DISCHARGE.--25 years, 2.21 ft³/s (0.063 m³/s), 1,600 acre-ft/yr (1.97 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13 ft³/s (0.368 m³/s) Mar. 29, gage height, 0.94 ft (0.287 m); no flow Aug. 8, 25-28, Sept. 5-17.

Period of record: Maximum discharge, 1,750 ft³/s (49.6 m³/s) Sept. 6, 1951, gage height, 5.60 ft (1.707 m), from floodmarks, from rating curve extended above 350 ft³/s (9.91 m³/s); no flow at times in most years.

Flood in September 1948 reached a stage of about 6.1 ft (1.86 m), discharge, 2,600 ft³/s (73.6 m³/s), by slope-area measurement of peak flow.

REMARKS.--Records fair except those for winter period and period of no gage height record, which are poor. Flow regulated by Bureau of Indian Affairs reservoir system approximately 10.5 mi (16.9 km) upstream. Diversions for irrigation of about 320 acres (1.30 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.7	2.4	2.7	4.4	12	5.7	3.8	2.0	.05	.05	.05
2	2.6	3.6	2.3	2.7	4.3	11	5.7	4.0	1.9	.05	.05	.05
3	2.6	3.5	2.2	2.6	4.9	11	5.7	4.2	1.5	.05	.05	.05
4	2.8	3.3	2.2	2.5	4.8	10	5.3	4.0	1.4	.05	.05	.02
5	3.2	3.2	2.1	2.3	4.7	11	4.6	3.5	1.3	.05	.05	0
6	3.2	3.8	2.0	2.2	4.5	9.8	5.3	3.3	1.3	.05	.02	0
7	3.5	7.1	2.1	2.3	4.0	10	4.6	3.1	1.5	.05	.02	0
8	3.5	7.1	2.2	2.2	4.3	10	4.3	2.9	1.6	.05	0	0
9	5.3	5.7	2.3	2.2	5.3	11	4.3	2.7	1.6	.08	.02	0
10	6.7	4.0	2.5	2.1	6.2	11	7.1	2.5	1.3	.05	.02	0
11	6.4	3.8	2.6	2.3	7.0	10	7.9	2.4	1.1	.08	.02	0
12	5.3	3.8	2.7	2.4	7.3	8.8	5.4	2.5	1.0	.08	.02	0
13	4.3	3.2	2.8	2.6	7.5	8.7	5.7	2.4	.91	.08	.02	0
14	4.3	2.6	2.7	2.9	7.4	7.2	4.6	2.4	.67	.08	.02	0
15	4.3	2.5	2.7	3.2	7.2	7.2	4.3	2.7	.52	.08	.05	0
16	4.0	2.3	2.6	3.3	7.1	7.5	4.0	2.7	.46	.08	.05	0
17	4.3	2.3	2.5	3.2	7.1	9.2	4.2	2.7	.52	.08	.05	0
18	4.6	2.3	2.5	3.1	7.8	9.7	4.0	2.7	.59	.08	.05	.02
19	4.3	2.2	2.4	3.0	7.6	4.3	4.3	2.7	.52	.08	.05	.02
20	4.0	2.2	2.4	3.0	7.5	3.1	5.3	3.8	.35	.11	.05	.05
21	3.8	2.3	2.5	2.9	7.2	3.7	5.0	4.2	.17	.11	.02	.05
22	3.8	2.4	2.6	2.8	7.5	4.5	4.3	3.3	.14	.08	.02	.05
23	4.0	2.5	2.6	2.8	7.9	3.9	4.3	2.7	.11	.11	.02	.05
24	3.8	2.4	2.7	3.0	8.3	4.8	3.8	2.5	.11	.02	.02	.05
25	3.5	2.3	2.8	3.3	8.6	6.3	3.5	2.4	.11	.02	0	.05
26	3.5	2.3	2.8	3.2	10	7.9	3.3	2.0	.05	.02	0	.05
27	3.5	2.4	2.9	3.1	11	8.4	3.3	2.0	.02	.02	0	.05
28	3.8	2.4	3.0	3.3	12	8.4	3.3	2.2	.02	.05	0	.05
29	4.0	2.5	2.9	3.5	-----	7.5	3.5	2.4	.05	.05	.02	.05
30	3.8	2.5	2.8	3.9	-----	8.4	4.0	2.9	.05	.02	.02	.05
31	3.8	-----	2.7	4.4	-----	8.4	-----	2.5	-----	.05	.02	-----
TOTAL	123.5	96.2	78.5	89.0	193.4	253.0	141.4	90.1	22.87	1.91	.85	.76
MEAN	3.98	3.21	2.53	2.87	6.91	8.15	4.71	2.91	.76	.062	.027	.025
MAX	6.7	7.1	3.0	4.4	12	12	7.9	4.2	2.0	.11	.05	.05
MIN	2.6	2.2	2.0	2.1	4.0	3.1	3.3	2.0	.02	.02	0	0
AC-FT	245	191	156	177	384	502	280	179	45	3.8	1.7	1.5

CAL YR 1973 TOTAL 1,779.59 MEAN 4.88 MAX 110 MIN .01 AC-FT 3,530
WTR YR 1974 TOTAL 1,091.49 MEAN 2.99 MAX 12 MIN 0 AC-FT 2,160

NOTE.--No gage-height record Dec. 27 to Mar. 7.

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 mi (1.9 km) upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft (1,440 m) and 5.0 mi (8.0 km) west of Shoshoni.

DRAINAGE AREA.--418 mi² (1,083 km²), of which 133 mi² (344 km²) 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 (1,448 m), from topographic map. May 10, 1941, to Sept. 30, 1942, nonrecording gage at site 1.0 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--27 years, 150 ft³/s (4.248 m³/s), 108,700 acre-ft/yr (134 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 555 ft³/s (15.7 m³/s) July 8, gage height, 4.10 ft (1.250 m); maximum gage height, 4.74 ft (1.445 m) Feb. 8 (backwater from ice); minimum daily discharge, 33 ft³/s (0.93 m³/s) Mar. 20.

Period of record: Maximum discharge, 3,390 ft³/s (96.0 m³/s) June 15, 1962, gage height, 7.85 ft (2.393 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s); maximum gage height, 9.61 ft (2.929 m) Dec. 27, 1954 (backwater from ice); minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Jan. 4-6, 1942.

Flood of July 24, 1923, discharge, 3,500 ft³/s (99.1 m³/s), 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	121	81	55	48	53	39	88	328	364	438	409
2	157	117	82	53	45	59	39	117	336	374	446	430
3	155	101	70	56	48	52	39	145	342	388	458	438
4	157	62	68	46	51	45	36	143	350	395	462	406
5	166	51	66	51	52	39	37	170	336	402	470	356
6	161	62	57	55	53	59	37	166	325	398	474	328
7	159	102	69	55	50	59	37	168	328	406	462	318
8	157	106	72	58	47	59	38	147	350	438	434	318
9	161	106	65	57	45	54	43	149	370	378	442	325
10	170	103	65	55	45	56	40	170	364	378	486	314
11	166	103	66	54	46	56	51	205	339	342	466	290
12	161	101	70	52	49	53	47	195	346	346	446	322
13	153	103	70	54	52	54	47	193	353	364	442	332
14	145	98	64	58	54	51	45	159	332	367	454	328
15	149	95	61	52	56	51	43	157	332	381	409	325
16	172	95	63	67	56	47	43	172	368	381	392	339
17	161	95	66	67	55	48	43	233	416	381	378	314
18	172	65	66	66	54	53	43	220	420	374	367	281
19	153	92	64	64	53	50	43	228	420	378	367	263
20	139	92	60	60	51	53	44	272	412	378	364	272
21	141	90	62	56	49	34	46	284	426	406	384	272
22	141	86	64	53	47	36	44	311	434	430	378	275
23	135	87	66	52	46	37	56	300	442	442	388	281
24	137	79	64	53	44	38	41	290	434	446	374	266
25	121	75	61	54	46	43	62	261	446	446	367	257
26	123	67	56	54	44	45	79	284	466	430	364	269
27	125	64	56	54	50	42	85	297	426	434	353	275
28	125	70	56	57	49	42	82	332	420	416	346	290
29	125	75	60	56	-----	42	84	322	392	426	353	300
30	123	61	60	55	-----	39	66	332	360	420	381	322
31	123	-----	58	51	-----	59	-----	325	-----	434	395	-----
TOTAL	4,623	2,669	2,020	1,738	1,391	1,466	1,487	6,853	11,433	12,343	12,740	9,515
MEAN	149	89.6	65.2	56.1	49.7	47.3	49.6	221	381	398	411	317
MAX	181	111	82	67	56	59	85	332	466	446	486	438
MIN	121	51	56	48	44	33	37	86	325	342	346	257
AC-FT	9,170	5,320	4,010	2,450	2,760	2,910	2,950	13,590	22,680	24,480	25,270	18,870

CAL YR 1973 TOTAL 56,711 MEAN 155 MAX 964 MIN 27 AC-FT 112,500
WTR YR 1974 TOTAL 68,298 MEAN 117 MAX 486 MIN 33 AC-FT 135,500

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 mi (0.6 km) upstream from mouth and 8.0 mi (12.9 km) east of Bonneville.

DRAINAGE AREA.--52.6 mi² (136 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,010 ft (1,527 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 3.20 ft³/s (0.091 m³/s), 2,320 acre-ft/yr (2.86 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 40 ft³/s (1.13 m³/s) Apr. 25, gage height, 5.15 ft (1.570 m); no flow for many days.

Period of record: Maximum discharge, 1,650 ft³/s (46.7 m³/s) June 17, 1967, gage height, 12.41 ft (3.783 m), from rating curve extended above 67 ft³/s (1.90 m³/s) 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 (81 hm²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.17	0	0	0	.04	0	7.0	0	0		
2	0	.15	0	0	0	.06	0	5.2	0	0		
3	0	.14	0	0	0	.08	0	2.8	0	0		
4	.04	.14	0	0	0	.09	0	2.6	0	0		
5	.12	.13	0	0	0	.11	0	2.6	0	0		
6	.14	.14	0	0	0	.12	0	2.6	0	0		
7	.12	.15	.01	0	0	.16	0	2.2	0	0		
8	.06	.16	.02	0	0	.14	0	2.0	0	0		
9	.15	.16	.01	0	0	.13	0	1.7	0	0		
10	.17	.16	.01	0	0	.12	0	1.0	0	0		
11	.17	.16	.02	0	0	.16	0	.95	0	0		
12	.16	.16	.02	0	0	.20	0	.95	0	0		
13	.16	.16	.02	0	0	.14	0	.45	0	0		
14	.17	.16	.01	0	0	.09	0	.32	0	0		
15	.17	.11	.01	0	0	.06	0	.26	0	0		
16	.17	.10	.01	0	0	.07	0	.16	0	0		
17	.18	.09	.01	0	0	.10	0	.05	0	0		
18	.18	.08	.01	0	0	.02	.02	.01	0	0		
19	.18	.07	0	0	0	.02	3.4	0	0	2.3		
20	.19	.06	0	0	0	.03	7.6	0	0	1.1		
21	.19	.05	0	0	0	.04	10	0	0	0		
22	.19	.04	0	0	0	.05	11	0	0	0		
23	.19	.03	0	0	0	.01	11	0	0	0		
24	.19	.02	0	0	0	.02	17	0	0	0		
25	.19	.01	0	0	0	.04	23	0	0	0		
26	.19	.01	0	0	.01	.03	35	0	0	0		
27	.18	.01	0	0	.02	.04	27	0	0	0		
28	.18	0	0	0	.03	.01	18	0	0	0		
29	.18	0	0	0	-----	0	12	0	0	0		
30	.18	0	0	0	-----	.02	8.6	0	0	0		
31	.18	-----	0	0	-----	0	-----	0	-----	0		
TOTAL	4.19	2.82	.16	0	.06	2.18	183.62	32.85	0	3.4	0	0
MEAN	.13	.094	.005	0	.002	.070	6.12	1.06	0	.11	0	0
MAX	.19	.17	.02	0	.03	.20	35	7.0	0	2.3	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	6.1	5.6	.3	0	.1	4.3	364	65	0	6.7	0	0

CAL YR 1972 TOTAL 3,491.20 MEAN 9.57 MAX 148 MIN 0 AC-FT 6,920
WTR YR 1974 TOTAL 229.66 MEAN .60 MAX 35 MIN 0 AC-FT 456

PEAK DISCHARGE (BASE, 50 FT³/S).--No peak above base.

YELLOWSTONE RIVER BASIN

35

06258000 MUDDY CREEK NEAR SHOSHONI, WYO.

LOCATION.--Lat 43°17'10", long 108°16'30", in NE¼NW¼ sec.34, T.4 N., R.5 E., Fremont County, on left bank 2.5 mi (4.0 km) upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft (1,440 m) and 9.0 mi (14.5 km) northwest of Shoshoni.

DRAINAGE AREA.--332 mi² (860 km²).

PERIOD OF RECORD.--March 1949 to September 1968, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,780 ft (1,457 m), from topographic map. Prior to May 13, 1949, water-stage recorder at site 50 ft (15 m) upstream at different datum.

AVERAGE DISCHARGE.--21 years (1949-68, 1972-74), 19.1 ft³/s (0.541 m³/s), 13,840 acre-ft/yr (17.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 116 ft³/s (3.29 m³/s) Apr. 25, gage height, 2.85 ft (0.869 m); minimum daily, 3.9 ft³/s (0.11 m³/s) Jan. 9.

Period of record: Maximum discharge, 1,430 ft³/s (40.5 m³/s) July 22, 1951, gage height, 7.50 ft (2.286 m); no flow at times in most years.

Flood of July 24, 1923, reached a discharge of 16,300 ft³/s (462 m³/s), from slope-area measurement of peak flow.

REMARKS.--Records fair 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 areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	13	6.3	10	13	17	53	54	20	39	31
2	13	10	14	6.1	10	14	16	57	50	24	32	30
3	13	11	15	5.8	11	15	15	65	44	26	31	30
4	13	13	14	5.4	11	15	14	53	38	21	27	29
5	12	15	13	5.0	11	14	13	54	30	25	38	30
6	12	22	12	4.6	10	14	13	52	35	29	35	38
7	12	22	13	4.3	9.5	15	13	58	38	28	29	44
8	12	20	14	4.0	9.1	16	13	62	39	18	30	38
9	12	18	14	3.9	9.5	15	13	88	43	25	40	38
10	12	16	13	4.1	10	14	14	73	42	43	44	42
11	13	16	12	4.1	10	15	18	84	40	39	41	30
12	14	16	12	4.3	11	15	17	67	50	32	45	24
13	23	16	13	5.0	11	15	14	56	44	24	41	29
14	35	16	12	6.0	11	14	14	53	41	21	22	25
15	27	16	11	6.5	10	15	13	53	40	27	24	22
16	24	17	11	7.0	10	16	13	48	37	27	31	20
17	27	17	12	7.5	11	15	13	47	41	31	27	18
18	21	16	12	7.8	11	14	15	75	35	30	18	17
19	18	15	11	8.0	10	13	14	58	30	32	21	16
20	16	15	10	8.0	10	12	13	61	28	33	18	17
21	14	14	9.5	7.8	9.7	13	15	60	26	36	25	17
22	14	13	9.5	7.5	9.5	14	21	58	28	35	27	18
23	13	14	10	7.3	9.0	15	18	42	32	33	25	23
24	13	14	10	7.3	9.5	18	53	35	36	25	25	29
25	13	13	11	7.6	10	22	76	53	36	22	22	32
26	12	12	10	8.0	11	22	38	35	24	22	30	32
27	12	11	9.3	7.7	12	21	69	35	21	22	33	23
28	11	10	8.6	7.6	12	20	63	37	18	28	32	21
29	12	11	8.1	8.5	-----	21	54	37	16	29	32	28
30	12	12	7.3	8.9	-----	20	47	47	18	31	36	32
31	11	-----	6.6	9.5	-----	18	-----	52	-----	46	35	-----
TOTAL	479	442	350.9	201.4	288.8	493	739	1,708	1,054	884	955	823
MEAN	15.5	14.7	11.3	6.50	10.3	15.9	24.6	55.1	35.1	28.5	30.8	27.4
MAX	35	22	15	9.5	12	22	76	88	54	46	45	44
MIN	11	10	6.6	3.9	9.0	12	13	35	16	18	18	16
AC=FT	950	877	696	399	573	978	1,470	3,390	2,090	1,750	1,890	1,630

CAL YR 1973 TOTAL 8,506.7 MEAN 23.3 MAX 193 MIN 3.7 AC=FT 16,870
WTR YR 1974 TOTAL 8,418.1 MEAN 23.1 MAX 88 MIN 3.9 AC=FT 16,700

YELLOWSTONE RIVER BASIN

06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WYO.

LOCATION.--Lat 43°25'30", long 108°10'42", in NW¼SW¼ sec.9, T.5 N., R.6 E., Fremont County, on right bank 0.6 mi (1.0 km) downstream from Boysen Dam and 13 mi (21 km) north of Shoshoni.

DRAINAGE AREA.--7,701 mi² (19,946 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 4,608.58 ft (1,404.695 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 1,435 ft³/s (40.64 m³/s), 1,040,000 acre-ft/yr (1,282 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,870 ft³/s (138 m³/s) June 29, gage height, 8.43 ft (2.569 m); minimum daily, 406 ft³/s (11.5 m³/s) June 16.

Period of record: Maximum discharge, 13,500 ft³/s (382 m³/s) July 7, 1967, gage height, 13.35 ft (4.069 m); minimum daily, 4.7 ft³/s (0.13 m³/s) Apr. 3, 1962.

REMARKS.--Records good. Flow regulated by Boysen Reservoir since October 1951. (See page 89.) Natural flow also affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft (234 hm³), and diversions for irrigation of about 196,000 acres (793 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,280	2,160	2,010	962	974	2,100	2,100	2,280	2,310	4,820	2,250	2,220
2	2,110	2,130	2,010	963	974	2,100	2,110	2,290	2,300	4,820	2,270	2,210
3	2,100	2,130	1,310	957	974	2,100	2,110	2,290	2,320	4,830	2,260	2,210
4	2,100	2,130	959	958	975	2,100	2,160	2,300	2,330	4,800	2,260	1,600
5	2,100	2,120	952	965	983	2,100	2,250	2,310	2,370	4,800	2,260	1,260
6	2,120	2,120	955	951	978	2,110	2,250	2,320	2,380	4,800	2,190	1,250
7	2,100	2,160	961	953	981	2,100	2,250	2,310	2,390	4,790	2,250	1,250
8	2,120	2,140	956	955	1,020	2,100	2,250	2,300	2,400	3,880	2,250	1,250
9	2,110	2,130	943	953	1,150	2,100	2,250	2,310	2,380	2,720	2,240	1,240
10	2,100	2,130	954	963	1,270	2,100	2,250	2,320	2,310	2,350	2,240	1,260
11	2,100	2,130	960	957	1,380	2,100	2,270	2,310	2,390	2,350	2,240	1,240
12	2,110	1,540	957	951	1,520	2,100	2,260	2,300	2,380	2,350	2,240	1,250
13	2,120	1,100	957	951	1,670	2,100	2,260	2,300	2,390	2,350	2,230	1,260
14	2,110	1,090	957	951	1,770	2,110	2,250	2,300	2,380	2,350	2,240	1,260
15	2,120	1,090	959	957	1,880	2,100	2,250	2,300	413	2,350	2,230	1,260
16	2,110	1,090	962	966	2,000	2,100	2,250	2,290	406	2,350	2,230	1,250
17	2,110	1,090	963	975	2,100	2,100	2,250	2,300	1,900	2,360	2,230	1,240
18	2,110	1,090	972	966	2,090	2,120	2,250	2,300	3,020	2,360	2,230	1,240
19	2,120	1,110	962	970	2,100	1,480	2,250	2,310	2,610	2,320	2,230	1,240
20	2,110	1,100	957	975	2,130	1,240	2,250	2,300	2,410	2,270	2,240	1,240
21	2,100	1,100	957	980	2,090	1,540	2,250	2,310	3,560	2,280	2,240	1,240
22	2,110	1,090	957	972	2,100	1,870	2,250	2,310	4,740	2,280	2,230	1,240
23	2,110	1,100	953	975	2,110	2,090	2,250	2,300	4,740	2,280	2,230	1,250
24	2,120	1,100	963	968	2,100	2,100	2,250	2,290	4,750	2,280	2,220	1,250
25	2,130	1,090	968	971	2,100	2,100	2,250	2,300	4,780	2,270	2,210	1,250
26	2,120	1,100	965	974	2,100	2,100	2,250	2,300	4,790	2,270	2,210	1,250
27	2,110	1,480	958	975	2,110	2,090	2,250	2,300	4,800	2,260	2,210	1,260
28	2,110	2,000	968	974	2,100	2,090	2,270	2,310	4,830	2,260	2,210	1,260
29	2,130	2,010	964	974	-----	2,100	2,280	2,310	4,840	2,260	2,210	1,270
30	2,130	2,010	972	974	-----	2,100	2,270	2,320	4,820	2,270	2,220	1,260
31	2,140	-----	964	974	-----	2,100	-----	2,320	-----	2,260	2,210	-----
TOTAL	65,670	47,860	32,205	29,910	45,729	62,840	67,090	71,340	90,439	90,990	69,210	40,760
MEAN	2,118	1,595	1,039	965	1,633	2,027	2,236	2,301	3,015	2,935	2,233	1,359
MAX	2,280	2,160	2,010	980	2,130	2,120	2,280	2,320	4,840	4,830	2,270	2,220
MIN	2,100	1,090	943	951	974	1,240	2,100	2,230	406	2,260	2,190	1,240
AC-FT	130,300	94,930	63,880	59,330	90,700	124,600	133,100	141,500	179,400	180,500	137,300	80,850

CAL YR 1973 TOTAL 558,655 MEAN 1,531 MAX 4,170 MIN 448 AC-FT 1,108,000
WTR YR 1974 TOTAL 714,043 MEAN 1,956 MAX 4,840 MIN 406 AC-FT 1,416,000

YELLOWSTONE RIVER BASIN

37

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 left bank 0.9 mi (1.4 km) upstream from normal high-water line of Anchor Reservoir, 2.3 mi (3.7 km) upstream from Anchor Dam, 3.2 mi (5.1 km) southwest of Anchor, and 34 mi (55 km) west of Thermopolis.

DRAINAGE AREA.--87 mi² (225 km²), 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 6,504.47 ft (1,982.562 m) 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 mi (1.1 km) downstream at different datum. Nov. 4, 1968, to June 5, 1970, at present site and datum. June 6, 1970, to Sept. 30, 1972, on right bank at present site at datum 0.14 ft (0.043 m) lower.

AVERAGE DISCHARGE.--16 years (1940-41, 1959-74), 35.5 ft³/s (1.005 m³/s), 25,720 acre-ft/yr (31.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 650 ft³/s (18.4 m³/s) May 27, gage height, 6.40 ft (1.951 m); minimum daily, 0.41 ft³/s (0.012 m³/s) Jan. 10.

Period of record: Maximum discharge, 1,940 ft³/s (54.9 m³/s) July 25, 1941, gage height, 8.73 ft (2.661 m), present site and datum, from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft³/s (0.003 m³/s) Jan. 11-22, 1960.

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

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.0	5.5	3.0	2.3	4.0	2.5	64	124	112	34	14
2	19	6.0	6.0	2.5	2.2	3.4	2.5	62	174	102	45	16
3	18	5.5	6.0	2.5	2.1	3.0	2.0	41	218	86	33	14
4	16	6.0	6.5	2.0	2.1	2.6	1.9	45	231	88	55	12
5	15	6.0	6.5	2.0	2.1	3.0	1.9	85	189	89	59	12
6	16	6.0	6.0	1.6	2.1	3.0	3.0	115	141	85	40	12
7	16	6.5	5.5	1.4	2.1	3.0	3.1	109	120	82	35	11
8	15	6.5	5.0	1.0	2.0	3.1	4.0	160	82	82	32	11
9	17	7.0	5.0	.57	2.0	2.8	5.0	145	73	78	31	11
10	15	8.0	5.0	.41	2.0	2.6	4.5	113	93	75	34	10
11	16	8.5	5.0	.83	2.0	2.6	4.0	65	156	70	30	12
12	14	9.0	5.0	2.0	2.0	2.8	3.5	55	224	61	27	14
13	16	9.5	5.0	2.4	2.0	3.3	3.5	55	305	51	25	11
14	16	10	5.5	2.0	2.0	2.2	3.5	44	347	60	26	9.5
15	16	10	5.5	2.0	2.2	2.5	4.0	40	358	59	22	9.5
16	16	9.5	5.5	2.0	2.2	3.0	5.0	32	350	59	21	9.1
17	15	9.0	5.5	2.2	2.1	4.3	10	32	339	51	20	9.1
18	15	8.0	5.5	2.3	2.0	4.6	28	33	283	47	20	8.4
19	14	7.0	5.5	2.2	1.9	4.0	56	49	241	58	18	8.4
20	14	6.0	5.0	2.0	1.9	3.0	37	61	260	81	18	8.4
21	14	6.0	5.0	1.9	1.8	2.6	25	43	205	70	18	8.4
22	14	5.5	5.0	1.7	1.7	2.4	27	34	193	66	15	8.1
23	14	5.5	5.0	1.7	1.6	2.8	77	35	195	56	15	7.8
24	12	5.0	5.0	1.8	1.6	2.5	146	65	191	51	15	7.5
25	13	5.0	4.5	2.0	1.8	2.4	156	132	191	46	15	7.5
26	11	4.5	4.0	2.1	2.4	2.5	129	172	178	41	14	7.5
27	11	4.5	4.0	2.2	3.0	3.5	66	333	127	39	14	7.5
28	11	5.0	3.5	2.2	3.3	4.2	41	505	129	38	14	7.5
29	10	5.0	3.5	2.4	-----	3.0	32	357	141	38	14	7.5
30	8.0	5.0	3.5	2.6	-----	3.3	40	145	125	36	14	7.2
31	8.5	-----	3.0	2.4	-----	3.3	-----	110	-----	35	14	-----
TOTAL	445.5	202.0	156.0	59.91	58.5	95.3	924.0	3,342	5,990	2,012	794	298.9
MEAN	14.4	6.73	5.03	1.93	2.09	3.07	30.8	103	200	64.9	25.6	9.96
MAX	20	10	6.5	3.0	3.3	4.6	156	505	358	112	59	15
MIN	8.0	4.5	3.0	.41	1.6	2.2	1.9	32	73	35	14	7.2
AC-FT	684	401	309	119	116	189	1,830	6,630	11,880	3,990	1,570	593

CAL YR 1973 TOTAL 12,527.44 MEAN 34.3 MAX 363 MIN .34 AC-FT 24,850
WTR YR 1974 TOTAL 14,378.11 MEAN 39.4 MAX 506 MIN .41 AC-FT 28,520

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-27	2200	6.40	650
6- 4	2200	5.41	294
6-15	2030	5.77	490

YELLOWSTONE RIVER BASIN

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 mi (2.6 km) downstream from Anchor Dam and 30 mi (48 km) west of Thermopolis.

DRAINAGE AREA.--133 mi² (344 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft (1,865 m), from topographic map.

AVERAGE DISCHARGE.--15 years, 21.8 ft³/s (0.617 m³/s), 15,790 acre-ft/yr (19.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 178 ft³/s (5.04 m³/s) June 25, gage height, 3.32 ft (1.012 m); no flow for many days.

Period of record: Maximum discharge, 373 ft³/s (10.6 m³/s) May 26, 1967, gage height, 3.64 ft (1.109 m); no flow at times most years.

REMARKS.--Records good except those for November to April, which are poor. Some regulation by Anchor Dam. (See page 89.) No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	6.2	3.5	.50	.20	1.2	2.6	4.2	154	156	28	10
2	9.4	6.2	3.5	0	.20	1.2	2.0	57	154	149	34	11
3	9.4	6.2	3.5	0	.20	1.0	1.5	69	156	143	30	12
4	9.4	5.4	3.5	0	.20	1.0	.70	68	158	140	30	10
5	9.4	3.2	3.0	0	.20	1.2	0	68	160	134	39	9.0
6	9.4	3.0	3.0	0	.20	1.2	.60	22	160	131	40	9.4
7	9.4	3.0	3.0	0	.20	1.5	2.8	22	162	129	39	9.4
8	9.4	3.0	3.0	0	.20	1.5	2.0	70	161	125	30	8.2
9	9.8	3.0	3.0	0	.20	1.5	2.9	70	138	103	24	8.2
10	9.4	3.0	3.0	0	.20	2.0	4.6	90	134	82	26	8.2
11	9.4	3.0	3.5	0	.20	2.0	5.1	100	131	79	24	8.2
12	9.4	3.0	3.5	0	.20	2.0	5.1	120	115	79	23	9.8
13	9.0	3.5	3.5	0	.20	1.5	4.8	147	90	82	23	11
14	9.0	4.0	3.5	0	.20	1.5	4.6	141	97	100	21	7.8
15	9.0	4.5	3.5	.20	.20	1.5	1.6	132	99	94	19	7.5
16	8.6	4.5	3.5	.30	.20	2.0	0	131	100	104	18	5.9
17	8.2	4.5	3.5	.30	.20	2.5	4.8	127	102	108	16	5.6
18	8.2	4.0	3.0	.30	.20	2.5	15	110	105	113	16	6.2
19	8.2	3.5	2.5	.30	.20	2.5	16	94	107	90	14	6.2
20	8.2	3.0	3.0	.30	.20	2.5	16	65	108	82	14	6.2
21	7.8	2.8	3.0	.25	.20	2.0	16	43	108	79	14	6.2
22	7.8	2.8	3.0	.20	.20	1.5	11	32	108	73	14	6.2
23	7.8	2.8	3.0	.20	.20	1.5	7.1	30	108	52	13	6.2
24	7.8	2.5	3.0	.20	.25	1.5	7.5	43	127	43	13	6.2
25	7.5	2.5	2.0	.20	.50	1.0	7.8	96	153	39	12	6.2
26	7.8	2.5	1.5	.20	.50	.70	8.2	107	174	36	12	6.2
27	7.1	2.5	1.0	.20	.75	1.0	8.6	153	174	32	12	6.5
28	7.1	2.5	1.0	.20	1.0	1.5	7.1	132	170	30	10	6.8
29	6.2	3.0	1.0	.20	-----	2.0	4.3	141	166	31	12	6.8
30	6.2	3.5	.50	.20	-----	2.2	4.3	151	162	28	12	6.8
31	6.2	-----	.50	.20	-----	2.4	-----	158	-----	28	11	-----
TOTAL	260.9	107.1	84.50	4.45	7.60	52.00	175.50	2,793.3	4,031	2,694	643	233.9
MEAN	8.42	3.77	2.73	.14	.27	1.68	5.85	90.1	134	86.9	20.7	7.80
MAX	9.8	6.2	3.5	.50	1.0	2.5	16	158	174	156	40	12
MIN	6.2	2.5	.50	0	.20	.70	0	4.3	90	28	10	5.6
AC-FT	517	212	159	8.8	15	103	348	5,540	8,000	5,340	1,280	464

CAL YR 1973 TOTAL 6,841.60 MEAN 19.7 MAX 158 MIN 0 AC-FT 13,570
 WTR YR 1974 TOTAL 11,087.25 MEAN 20.4 MAX 174 MIN 0 AC-FT 21,990

NOTE.--No gage-height record Nov. 6 to Dec. 5, Dec. 10 to Mar. 26.

YELLOWSTONE RIVER BASIN

39

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 mi (0.2 km) downstream from Anchor Dam road, 1.1 mi (1.8 km) southwest of Anchor, and 32 mi (51 km) west of Thermopolis.

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

PERIOD OF RECORD.--April 1962 to current year (discharge measurements only in 1973 and no winter records in 1974). Published as "below Cup Creek, near Anchor" 1962-67.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map. Prior to Oct. 1, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 1, 1967, to Sept. 5, 1972, at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--10 years (1962-72), 13.5 ft³/s (0.382 m³/s), 9,780 acre-ft/yr (12.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 559 ft³/s (15.8 m³/s) Apr. 25, gage height, 3.74 ft (1.140 m); minimum daily during period of operation, 0.90 ft³/s (0.025 m³/s) Aug. 3.

Period of record: Maximum discharge, 1,370 ft³/s (38.8 m³/s) 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 (3.32 km²) below station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							9.0	37	39	7.9	1.4	1.6
2							8.3	35	43	7.9	1.5	1.7
3							8.1	20	46	7.9	.90	1.2
4							6.6	23	44	7.9	5.6	1.5
5							6.4	40	43	7.9	11	1.5
6							9.0	70	30	7.9	4.3	1.4
7							11	80	20	7.6	4.9	1.2
8							12	87	16	7.9	5.1	1.1
9							16	73	17	7.9	4.7	1.3
10							14	73	21	7.9	5.8	1.0
11							12	30	37	7.9	3.9	1.0
12							11	8.0	58	7.6	3.9	1.3
13							11	6.9	48	7.4	3.2	1.3
14							11	6.0	68	7.2	3.0	1.5
15							16	6.6	60	6.7	2.6	2.1
16							23	5.2	30	7.4	2.1	2.3
17							22	5.1	29	7.2	1.6	2.4
18							29	6.0	28	6.4	1.6	2.4
19							73	16	22	8.4	2.4	2.6
20							45	15	20	6.4	3.0	2.8
21							25	12	13	5.6	3.3	2.8
22							20	12	15	5.6	2.8	2.7
23							70	17	21	4.0	2.4	2.7
24							84	48	14	2.5	2.7	2.7
25							170	70	12	2.2	3.3	2.8
26							67	87	11	1.9	3.2	2.7
27							34	120	8.9	1.7	2.7	2.8
28							20	131	7.0	1.9	2.2	2.9
29							12	98	7.9	2.1	2.0	2.9
30							18	41	7.9	1.6	1.8	3.0
31								33		1.6	1.6	
TOTAL							801.4	1,330.7	855.6	182.0	100.50	61.2
MEAN							25.7	42.9	28.5	5.87	3.24	2.04
MAX							170	131	88	8.4	11	3.0
MIN							6.4	5.1	7.9	1.6	.90	1.0
AC-FT							1,770	2,640	1,700	361	199	121

PEAK DISCHARGE (BASE, 160 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
4-25	2300	3.74	559
5-7	2200	3.34	255
5-27	2130	3.45	358

YELLOWSTONE RIVER BASIN

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 mi (1.0 km) downstream from Middle Creek, and 0.8 mi (1.3 km) northwest of Dickie.

DRAINAGE AREA.--95.0 mi² (246 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 13.6 ft³/s (0.385 m³/s), 9,850 acre-ft/yr (12.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 537 ft³/s (15.2 m³/s) Apr. 26, gage height, 4.14 ft (1.262 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Jan. 12.

Period of record: Maximum discharge, 1,130 ft³/s (32.0 m³/s) June 15, 1963, gage height, 5.66 ft (1.725 m), from rating curve extended above 170 ft³/s (4.81 m³/s) 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 periods, which are poor. No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	5.5	4.6	2.5	4.5	5.2	9.0	105	73	20	8.0	2.3
2	12	5.0	4.4	2.5	4.3	8.0	8.0	118	72	23	8.5	4.1
3	12	4.5	4.0	2.5	4.1	10	7.5	78	73	23	9.0	3.6
4	12	5.0	3.8	2.5	4.1	8.0	7.5	72	74	19	12	2.3
5	12	5.5	3.6	2.5	4.3	6.5	7.5	91	71	18	10	3.4
6	11	6.0	3.6	2.8	3.8	7.0	9.0	123	68	18	7.0	4.3
7	10	6.5	3.8	3.0	4.1	8.0	10	111	65	18	4.8	4.3
8	11	6.5	3.5	2.5	4.1	7.5	10	135	66	16	5.2	3.6
9	14	6.5	4.0	2.1	4.1	8.0	12	163	59	14	3.6	3.6
10	15	6.5	4.2	1.9	4.1	8.0	10	167	55	14	3.2	3.2
11	14	6.5	4.4	1.4	4.1	8.0	8.0	97	54	14	2.5	3.8
12	14	8.0	4.6	1.1	4.1	8.0	7.0	81	59	9.0	2.0	7.6
13	12	8.0	4.6	1.3	4.1	8.0	6.5	87	63	4.8	2.0	7.3
14	11	8.5	4.2	1.6	4.1	8.0	6.5	69	59	6.2	2.0	5.6
15	10	10	4.0	2.0	4.1	8.0	9.0	61	57	10	2.0	4.8
16	10	12	4.0	2.5	4.1	8.5	15	52	53	10	1.8	4.3
17	9.0	12	4.0	4.0	4.3	10	20	50	50	16	1.6	3.8
18	8.5	9.0	3.8	6.0	3.8	11	28	50	46	14	1.6	3.8
19	8.5	6.0	3.5	7.0	4.5	9.0	46	64	39	14	1.6	3.6
20	8.0	5.0	3.2	6.0	4.3	7.0	107	61	28	15	2.2	4.1
21	8.0	4.5	3.8	5.0	3.8	7.0	96	52	26	13	4.1	4.5
22	7.6	4.0	4.0	4.0	4.3	6.5	85	50	27	11	3.6	4.1
23	7.3	4.0	4.0	4.3	4.3	6.0	147	52	31	10	3.2	3.8
24	7.0	4.0	4.0	4.3	3.6	7.0	268	58	32	12	3.2	3.6
25	7.0	3.5	3.8	4.8	4.1	10	312	84	26	8.5	2.3	3.8
26	7.0	3.5	3.5	4.8	4.3	13	288	96	26	7.6	2.5	3.6
27	5.2	4.0	3.5	4.8	4.3	17	169	117	24	7.0	2.3	4.1
28	7.6	4.5	3.0	4.8	3.8	22	102	130	23	7.6	2.2	6.6
29	9.5	5.0	3.0	4.3	-----	18	85	117	22	9.0	1.9	5.2
30	6.2	5.0	3.0	4.5	-----	14	89	102	22	9.0	1.9	4.8
31	6.0	-----	2.8	4.5	-----	11	-----	82	-----	9.0	2.2	-----
TOTAL	304.4	184.5	118.6	107.8	115.5	293.2	1,984.5	2,775	1,443	399.7	120.0	127.5
MEAN	9.82	5.15	3.83	3.46	4.13	9.46	66.2	89.5	48.1	12.9	3.87	4.25
MAX	15	12	4.6	7.0	4.5	22	312	167	74	23	12	7.6
MIN	5.2	3.5	2.8	1.1	3.6	5.2	6.5	50	22	4.8	1.6	2.3
AC-FT	604	366	235	214	229	582	3,940	5,500	2,860	793	238	253

CAL YR 1973 TOTAL 9,801.33 MEAN 26.9 MAX 212 MIN .87 AC-FT 19,440
WTR YR 1974 TOTAL 7,973.70 MEAN 21.8 MAX 312 MIN 1.1 AC-FT 15,820

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-26	0030	4.14	537	5-10	0400	2.90	232
5-2	0200	3.02	256	5-28	0300	2.60	180

YELLOWSTONE RIVER BASIN

41

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 (15 m) upstream from county road, 1.8 mi (2.9 km) upstream from mouth, 5.2 mi (8.4 km) southeast of Colter, and 7.0 mi (11 km) south of Worland.

DRAINAGE AREA.--149 mi² (386 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft (1,269 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 390 ft³/s (11.0 m³/s) Oct. 10, gage height, 2.27 ft (0.692 m); no flow most of year.

Period of record: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Feb. 20, 1971, gage height, 3.52 ft (1.073 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of velocity-area study, but may have been greater during period of no gage-height record Oct. 1 to Nov. 22, 1971; no flow most of each year.

REMARKS.--Records fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	0	0		0		9.0	0	0		0		
2	0	0		0		8.8	0	0		0		
3	0	0		0		9.6	0	0		0		
4	0	0		0		4.5	0	0		0		
5	0	0		0		.46	0	0		0		
6	0	22		0		.15	0	0		0		
7	0	62		0		.08	0	0		0		
8	0	8.8		0		.04	0	0		0		
9	.01	2.4		0		0	0	0		0		
10	65	.04		0		0	0	0		0		
11	50	.08		0		0	23	0		0		
12	6.4	.08		0		0	9.5	0		0		
13	3.9	0		0		0	71	0		0		
14	.17	0		0		0	44	0		0		
15	0	0		4.0		0	2.9	0		0		
16	0	0		9.0		0	.08	0		0		
17	0	0		9.0		0	.01	0		0		
18	0	0		4.5		0	0	0		0		
19	0	0		.56		0	0	0		0		
20	0	0		.15		0	0	0		2.5		
21	0	0		.10		0	0	0		.01		
22	0	0		.08		0	0	0		0		
23	0	0		0		0	0	0		0		
24	0	0		0		0	0	0		0		
25	0	0		0		0	0	0		0		
26	0	0		0		0	0	0		0		
27	0	0		0		0	0	0		0		
28	0	0		0		0	0	0		0		
29	0	0		0	-----	0	0	0		0		
30	0	0		0	-----	0	0	.63		0		
31	0	-----		0	-----	0	-----	0	-----	0		-----
TOTAL	125.48	95.40	0	27.39	0	32.63	150.59	.63	0	2.51	0	0
MEAN	4.05	3.18	0	.88	0	1.05	5.02	.022	0	.081	0	0
MAX	65	62	0	9.0	0	9.6	71	.63	0	2.5	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	249	183	0	54	0	65	299	1.4	0	5.0	0	0
CAL YR 1973	TOTAL	1,175.70	MEAN	3.22	MAX	288	MIN	0	AC-FT	2,330		
WTR YR 1974	TOTAL	434.69	MEAN	1.19	MAX	65	MIN	0	AC-FT	862		

YELLOWSTONE RIVER BASIN

06270000 NOWOOD RIVER NEAR TEN SLEEP, WYO.

LOCATION.--Lat 44°00'48", long 107°25'39", in SW¼NW¼ sec.27, T.47 N., R.88 W., Washakie County, on right bank, 1.7 mi (2.7 km) southeast of Ten Sleep, and 4.3 mi (6.9 km) upstream from Tensleep Creek.

DRAINAGE AREA.--803 mi² (2,080 km²).

PERIOD OF RECORD.--May 1938 to September 1943, March 1950 to December 1955 (published as Nowood Creek near Tensleep), October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m), from topographic map. May 6, 1938, to Sept. 30, 1943, nonrecording gage at site 200 ft (61 m) downstream at different datum. Mar. 17, 1950, to Dec. 31, 1955, water-stage recorder at site 100 ft (30 m) upstream at different datum.

AVERAGE DISCHARGE.--12 years (1938-43, 1950-55, 1972-74), 106 ft³/s (3.002 m³/s), 76,800 acre-ft/yr (94.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Apr. 27, gage height, 8.66 ft (2.640 m); minimum daily, 18 ft³/s (0.51 m³/s) Aug. 7.

Period of record: Maximum discharge, 3,330 ft³/s (94.3 m³/s) June 16, 1955, gage height, 12.3 ft (3.75 m), from floodmark, site and datum then in use, from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of slope-area measurement of peak flow; maximum gage height observed, 13.0 ft (3.96 m) Mar. 12, 13, 1942 (ice jam), site and datum then in use; minimum daily discharge, 0.7 ft³/s (0.020 m³/s) Aug. 13, 1940.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 550 acres (2.23 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	110	95	50	90	140	138	408	90	36	22	29
2	96	105	90	50	90	180	121	482	85	38	22	41
3	96	104	90	50	90	150	104	445	85	44	22	44
4	94	93	90	54	90	140	35	298	76	46	21	44
5	95	85	85	60	90	130	90	255	74	48	22	44
6	95	116	80	60	90	124	39	292	69	48	20	43
7	95	106	85	60	90	110	86	362	71	45	18	40
8	95	102	90	56	90	106	87	358	82	43	19	37
9	95	100	85	50	90	119	97	358	90	42	23	39
10	90	99	85	48	90	105	94	370	98	39	33	35
11	90	99	85	50	90	100	131	305	90	35	35	37
12	90	98	85	55	90	100	122	239	82	33	39	46
13	95	96	85	60	90	98	121	211	76	29	37	54
14	100	96	85	66	90	94	113	211	71	28	36	61
15	110	94	85	75	90	92	98	180	70	27	36	59
16	120	93	85	90	85	90	96	163	57	26	35	60
17	110	92	85	95	85	89	96	146	65	24	33	58
18	105	92	85	100	85	121	96	136	62	23	31	59
19	100	92	80	95	85	167	111	148	61	22	30	62
20	100	93	75	90	84	124	151	176	59	32	26	64
21	100	92	70	90	83	92	217	174	55	46	27	59
22	95	90	70	90	86	98	182	146	58	35	27	56
23	95	85	70	90	88	93	153	136	56	28	26	53
24	95	80	70	90	90	82	253	122	54	25	25	53
25	95	80	70	90	95	93	572	111	53	22	24	54
26	100	80	70	90	100	92	996	113	51	22	24	55
27	110	80	70	90	110	90	1,200	113	46	22	25	56
28	110	85	66	90	120	108	812	111	45	23	23	61
29	110	90	62	90	-----	182	432	114	43	22	22	61
30	110	90	58	90	-----	138	368	110	42	21	24	60
31	110	-----	54	90	-----	116	-----	105	-----	21	25	-----
TOTAL	3,099	2,817	2,440	2,304	2,546	3,563	7,312	6,848	2,028	995	832	1,524
MEAN	100	93.9	78.7	74.3	90.9	115	244	221	57.5	32.1	26.8	50.8
MAX	120	116	95	100	120	182	1,200	482	98	48	39	64
MIN	90	80	54	48	83	82	86	105	42	21	18	29
AC-FT	6,150	5,590	4,840	4,570	5,050	7,070	14,500	13,580	4,020	1,970	1,650	3,320

CAL YR 1973 TOTAL 65,925 MEAN 181 MAX 2,030 MIN 31 AC-FT 130,800
WTR YR 1974 TOTAL 36,308 MEAN 99.5 MAX 1,200 MIN 18 AC-FT 72,020

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
4-27	0930	8.66	1,280

YELLOWSTONE RIVER BASIN

43

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 mi (1.3 km) upstream from Cascade Creek, 0.8 mi (1.3 km) southwest of Kirwin, and 1.1 mi (1.8 km) downstream from Horse Creek.

DRAINAGE AREA.--7.66 mi² (19.8 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 9,380 ft (2,859 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 236 ft³/s (6.68 m³/s) June 18, gage height, 5.69 ft (1.734 m); maximum gage height, 5.82 ft (1.774 m) May 7 (backwater from ice); minimum daily discharge, 0.55 ft³/s (0.016 m³/s) Jan. 10.

Period of record: Maximum discharge, 338 ft³/s (9.57 m³/s) June 23, 1971, gage height, 5.27 ft (1.606 m); maximum gage height, 5.82 ft (1.774 m) May 7, 1974 (backwater from ice); minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Jan. 13, 1971.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	4.0	2.1	1.2	1.2	.84	.70	5.0	25	64	24	8.4
2	7.8	3.8	2.2	1.2	1.2	.72	.60	5.5	37	56	23	8.4
3	6.8	3.6	2.0	1.1	1.1	.70	.60	5.0	56	40	23	7.0
4	5.9	2.6	2.0	1.0	.97	.65	.60	5.0	82	48	23	6.0
5	6.4	3.3	1.6	1.0	.97	.70	.65	6.5	69	56	23	5.0
6	6.4	3.0	1.8	.95	.97	.70	.70	8.0	37	52	22	4.7
7	5.9	2.7	1.6	.90	.95	.75	.70	9.0	34	50	21	4.7
8	6.4	2.7	1.8	.80	.90	.75	.80	10	29	46	21	4.7
9	5.9	2.4	1.8	.70	.90	.75	1.0	9.5	25	46	21	4.7
10	5.9	2.2	1.8	.55	.90	.75	.90	9.0	37	45	20	4.7
11	6.4	2.2	1.8	.60	.90	.75	.90	8.5	42	43	20	5.1
12	5.9	2.4	1.8	.70	.90	.75	.90	8.0	69	39	20	5.4
13	6.4	2.4	1.8	.80	.90	.80	.90	7.5	88	39	18	5.3
14	6.4	2.4	2.0	.90	.90	.70	.90	7.0	119	38	18	4.7
15	6.8	2.0	2.0	1.0	.90	.75	.95	7.0	128	37	17	4.0
16	6.8	2.0	2.0	1.1	.90	.80	1.1	6.0	119	37	17	4.0
17	6.4	2.0	2.0	1.2	.90	.95	1.2	7.0	109	32	17	4.0
18	6.4	2.0	2.0	1.2	.90	.95	1.6	8.0	123	30	17	3.6
19	5.5	2.0	1.8	1.2	.85	.90	2.4	10	132	45	17	3.0
20	5.9	1.8	1.8	1.2	.80	.90	1.5	12	123	56	15	3.0
21	5.5	1.7	1.8	1.2	.80	.85	1.3	11	116	50	14	2.7
22	5.5	1.6	1.8	1.2	.80	.70	1.5	10	112	52	14	2.7
23	5.5	1.5	1.6	1.1	.80	.70	1.8	13	109	40	12	2.7
24	5.5	1.5	1.6	1.1	.80	.70	3.0	20	105	37	12	2.7
25	5.5	1.4	1.4	1.1	.80	.70	5.0	30	102	34	11	2.4
26	5.5	1.3	1.2	1.1	.80	.80	6.0	50	95	29	10	2.4
27	5.5	1.3	1.6	1.1	.80	.90	5.0	70	88	28	9.0	2.4
28	5.4	1.5	1.4	1.1	.80	.85	4.5	60	77	24	8.0	2.2
29	5.2	1.7	1.2	1.1	-----	.80	4.0	54	77	24	8.0	2.2
30	4.8	2.0	1.2	1.2	-----	.80	4.5	24	72	24	8.0	2.2
31	4.2	-----	1.2	1.2	-----	.75	-----	25	-----	22	8.0	-----
TOTAL	186.2	68.0	54.1	31.80	25.31	24.11	56.20	520.5	2,436	1,263	511.0	125.0
MEAN	6.01	2.27	1.75	1.03	.90	.78	1.87	16.8	81.2	40.7	16.5	4.17
MAX	7.8	4.0	2.2	1.2	1.2	.95	6.0	70	132	64	24	8.4
MIN	4.2	1.3	1.2	.55	.80	.65	.60	5.0	25	22	8.0	2.2
AC-FT	369	135	107	63	50	48	111	1,030	4,830	2,510	1,010	248

CAL YR 1973 TOTAL 3,555.54 MEAN 9.74 MAX 82 MIN .61 AC-FT 7,050

WTR YR 1974 TOTAL 5,301.22 MEAN 14.5 MAX 132 MIN .55 AC-FT 10,510

NOTE.--No gage-height record Jan. 3 to Feb. 2, Feb. 7 to May 6.

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, 1.0 mi (1.6 km) downstream from Ernest May Ranch, 5.2 mi (8.4 km) downstream from Dick Creek, and 10 mi (16 km) southwest of Meeteetse.

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

AVERAGE DISCHARGE.--27 years, (1945-72), prior to Lower Sunshine diversion, 117 ft³/s (3.313 m³/s), 84,770 acre-ft/yr (105 hm³/yr).

Period of record: Maximum discharge, 5,080 ft³/s (144 m³/s) June 15, 1963, gage height, 7.00 ft (2.134 m), from floodmark, site and datum then in use, from contracted-opening measurement of peak flow; minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 22, 25, 1960.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	80	22	14	18	19	33	282	313	267	216	62
2	130	75	22	13	18	20	33	291	384	262	264	60
3	130	70	20	12	17	20	33	224	578	262	209	58
4	129	65	19	12	16	19	32	242	710	282	279	54
5	127	60	19	12	16	18	32	373	705	313	248	50
6	126	60	19	12	14	17	30	339	520	300	190	47
7	121	60	20	12	12	16	32	366	464	294	188	47
8	124	58	20	11	12	16	38	615	370	282	168	47
9	124	55	19	11	12	18	62	552	332	282	185	47
10	121	54	18	11	13	20	65	406	349	285	224	47
11	119	56	19	10	14	22	70	250	492	270	152	47
12	115	59	20	12	15	25	75	221	635	250	148	49
13	115	58	20	16	15	25	75	253	874	240	132	49
14	115	58	20	20	15	25	72	232	976	240	134	49
15	110	58	20	22	15	25	74	204	1,080	225	118	48
16	108	58	20	24	15	27	79	185	1,050	210	98	48
17	105	55	20	24	15	30	88	183	994	190	96	47
18	103	52	20	23	15	30	106	211	940	170	87	47
19	102	50	18	23	14	30	146	248	792	270	83	47
20	101	45	16	22	12	28	188	192	732	388	82	48
21	98	40	20	22	12	25	156	179	625	366	79	47
22	98	35	20	19	12	24	121	174	524	429	76	46
23	96	30	20	18	12	24	203	192	534	342	73	46
24	92	28	19	19	12	24	428	306	516	306	70	45
25	88	22	18	20	13	30	635	452	436	303	69	45
26	84	19	17	20	15	35	542	578	417	310	67	45
27	83	18	17	20	17	36	256	910	335	282	65	47
28	85	20	16	20	17	37	146	1,210	313	291	67	48
29	84	22	16	20	-----	35	158	982	297	256	68	47
30	78	22	15	19	-----	35	221	516	285	245	66	49
31	80	-----	15	18	-----	35	-----	329	-----	232	64	-----
TOTAL	3,325	1,442	584	531	403	790	4,229	11,697	17,572	8,644	4,065	1,463
MEAN	107	46.1	18.8	17.1	14.4	25.5	141	377	586	279	131	48.8
MAX	134	80	22	24	18	37	635	1,210	1,080	429	279	62
MIN	78	18	15	10	12	16	30	174	285	170	64	45
AC-FT	6,600	2,860	1,160	1,350	799	1,570	8,390	23,200	34,850	17,150	8,060	2,900
CAL YR 1973	TOTAL 50,310		MEAN 136		MAX 396		MIN 15		AC-FT 99,790			
WTR YR 1974	TOTAL 54,745		MEAN 150		MAX 1,210		MIN 10					

YELLOWSTONE RIVER BASIN

45

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, 0.3 mi (0.5 km) upstream from bridge on State Highway 120, and 3.0 mi (4.8 km) upstream from Meeteetse Creek.

DRAINAGE AREA.--681 mi² (1,764 km²).

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 (1,749.375 m) 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 (0.610 m) higher. May 25, 1961, to May 9, 1967, at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--51 years (1920-71), 347 ft³/s (9.827 m³/s), 251,400 acre-ft/yr (310 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,480 ft³/s (155 m³/s) June 15; maximum gage height, 6.75 ft (2.057 m) May 27; minimum daily discharge during period of operation, 44 ft³/s (1.25 m³/s) Apr. 8.

Period of record: Maximum discharge, 13,600 ft³/s (385 m³/s) June 15, 1963, gage height, 9.20 ft (2.804 m), from floodmark, from rating curve extended above 4,600 ft³/s (130 m³/s) on basis of velocity-area study; minimum daily, 16 ft³/s (0.45 m³/s) Mar. 4, 1963.

REMARKS.--Records poor. Some regulation by Sunshine Reservoir beginning May 1940, capacity, 52,990 acre-ft (65.3 hm³), and Lower Sunshine Reservoir beginning December 1972, capacity, 58,900 acre-ft (72.6 hm³). Diversions for irrigation of about 10,600 acres (42.9 km²) above station. Several diversions above station for irrigation below station.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							50	534	396	1,110	748	530
2							48	655	619	996	797	535
3							46	364	1,000	876	727	505
4							52	384	1,360	825	762	450
5							61	655	1,330	916	769	410
6							63	880	988	940	727	372
7							67	794	869	860	734	354
8							44	1,250	646	884	684	333
9							54	1,220	510	892	648	325
10							67	940	534	860	690	317
11							84	567	693	818	660	305
12							136	436	976	708	618	298
13							128	466	2,110	727	588	291
14							71	364	3,180	790	600	277
15							74	341	3,980	892	540	274
16							82	336	3,560	956	490	280
17							112	410	2,930	868	440	288
18							223	466	2,340	839	420	294
19							313	693	2,130	884	435	298
20							364	526	2,170	1,030	470	294
21							262	341	1,940	988	465	284
22							181	451	1,630	1,000	460	277
23							248	487	1,750	884	475	260
24							526	683	1,850	818	480	218
25							916	940	1,560	804	455	252
26							1,070	1,070	1,680	790	500	249
27							637	2,260	1,460	790	546	263
28							330	3,110	1,340	776	552	274
29					-----		262	2,070	1,250	755	546	274
30					-----		364	858	1,170	762	540	266
31		-----			-----		-----	451	-----	762	530	-----
TOTAL							6,935	25,002	47,951	26,800	18,096	9,647
MEAN							231	807	1,598	865	584	322
MAX							1,070	3,110	3,980	1,110	797	535
MIN							44	336	396	708	420	218
AC-FT							13,760	49,590	95,110	53,160	35,890	19,130

YELLOWSTONE RIVER BASIN

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 mi (0.3 km) upstream from Shell Reservoir, 1.1 mi (1.8 km) downstream from Buckley Creek, 6.0 mi (9.7 km) southeast of Shell Creek ranger station, and 19 mi (31 km) east of Shell.

DRAINAGE AREA.--23.1 mi² (59.8 km²).

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 (2,758 m), from topographic map.

AVERAGE DISCHARGE.--18 years, 36.7 ft³/s (1.039 m³/s), 26,590 acre-ft/yr (32.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,100 ft³/s (31.2 m³/s) June 14, gage height, 6.61 ft (2.015 m); minimum daily, 2.0 ft³/s (0.06 m³/s) Feb. 21.

Period of record: Maximum discharge, 1,870 ft³/s (53.0 m³/s) June 15, 1963, gage height, 7.84 ft (2.390 m), from floodmarks, from rating curve extended above 550 ft³/s (15.6 m³/s) on basis of velocity-area study; minimum daily, 0.60 ft³/s (0.017 m³/s) Mar. 7, 1967.

REMARKS.--Records good except those for winter period, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.4	4.9	3.4	2.2	2.3	2.5	15	87	81	16	8.1
2	9.6	5.2	4.9	3.4	2.2	2.3	2.5	20	106	80	16	8.2
3	9.6	5.2	4.7	3.3	2.2	2.3	2.5	14	235	94	15	8.3
4	9.6	5.0	4.5	3.2	2.2	2.2	2.5	13	352	76	14	7.8
5	9.3	5.0	4.4	3.1	2.2	2.3	2.5	13	310	65	15	7.3
6	8.8	5.2	4.4	3.1	2.2	2.4	2.5	15	145	61	14	7.8
7	8.6	5.6	4.4	3.0	2.2	2.4	2.5	17	95	58	14	7.3
8	8.6	6.0	4.5	2.8	2.2	2.4	2.5	21	72	53	15	6.9
9	9.0	6.0	4.5	2.7	2.3	2.4	2.5	25	65	49	15	6.6
10	9.8	6.0	4.5	2.6	2.3	2.5	2.5	30	78	45	18	6.4
11	10	6.0	4.5	2.5	2.2	2.5	2.5	25	155	42	17	7.4
12	10	6.0	4.5	2.5	2.2	2.5	2.5	21	363	38	15	8.1
13	10	6.2	4.5	2.6	2.2	2.6	2.5	20	558	33	14	8.1
14	11	6.0	4.5	2.6	2.2	2.6	2.5	18	665	31	14	8.6
15	10	5.8	4.5	2.7	2.2	2.6	2.5	15	558	29	13	8.7
16	9.6	5.8	4.5	2.7	2.1	2.5	2.6	14	550	29	12	8.5
17	9.2	5.8	4.4	2.6	2.1	2.5	2.7	14	536	28	11	8.2
18	8.8	5.6	4.3	2.6	2.1	2.5	3.0	15	485	27	10	8.0
19	8.4	5.4	4.2	2.6	2.1	2.5	4.1	30	407	32	9.7	7.7
20	8.2	5.0	4.2	2.6	2.1	2.5	4.3	50	413	42	9.5	7.6
21	8.0	4.7	4.2	2.5	2.0	2.5	4.1	45	271	51	10	7.4
22	8.0	4.7	4.1	2.4	2.1	2.5	4.3	40	202	36	9.9	7.2
23	7.8	4.7	4.0	2.5	2.1	2.5	4.5	40	207	30	9.2	7.2
24	7.4	4.7	4.0	2.5	2.1	2.5	5.0	45	201	26	8.5	7.1
25	7.4	4.7	3.9	2.5	2.2	2.5	10	70	170	23	8.1	6.9
26	7.4	4.7	3.9	2.4	2.2	2.5	30	120	147	21	7.8	6.8
27	6.8	4.8	3.9	2.3	2.2	2.5	24	250	125	19	7.6	6.6
28	7.0	4.9	3.9	2.3	2.2	2.5	19	550	107	18	7.4	6.7
29	7.0	4.9	3.9	2.3	-----	2.5	13	468	98	18	7.4	6.7
30	6.2	4.9	3.8	2.2	-----	2.5	12	169	90	17	7.4	6.6
31	5.7	-----	3.6	2.2	-----	2.5	-----	110	-----	16	7.2	-----
TOTAL	266.8	159.9	133.0	82.7	60.8	76.3	180.1	2,314	7,853	1,268	367.7	224.8
MEAN	8.61	5.33	4.29	2.67	2.17	2.46	6.00	74.6	262	40.9	11.9	7.49
MAX	11	6.2	4.9	3.4	2.3	2.6	30	550	665	94	18	8.7
MIN	5.7	4.7	3.6	2.2	2.0	2.2	2.5	13	65	16	7.2	6.4
AC-FT	529	317	264	164	121	151	357	4,590	15,580	2,520	729	446

CAL YR 1973 TOTAL 12,290.9 MEAN 33.7 MAX 633 MIN 1.1 AC-FT 24,380
WTR YR 1974 TOTAL 12,987.1 MEAN 35.6 MAX 665 MIN 2.0 AC-FT 25,760

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-28	2130	5.79	736
6-5	0100	4.75	428
6-14	2100	6.61	1,100

YELLOWSTONE RIVER BASIN

47

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 mi (1.4 km) upstream from White Creek and 5.0 mi (8.0 km) northeast of Shell.

DRAINAGE AREA.--145 mi² (376 km²).

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 (1,331.991 m) above mean sea level.

AVERAGE DISCHARGE.--31 years (1940-71), 119 ft³/s (3.370 m³/s) 86,220 acre-ft/yr (106 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft³/s (50.4 m³/s) May 29, gage height, 5.52 ft (1.682 m); minimum daily during period of operation, 35 ft³/s (0.99 m³/s) Apr. 3-5.

Period of record: Maximum discharge, 3,020 ft³/s (85.5 m³/s) June 24, 1945, gage height, 7.49 ft (2.283 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); minimum daily, 18 ft³/s (0.51 m³/s) Mar. 5, 7, 1950, Jan. 30, 31, 1951.

REMARKS. Records good. Some regulation by two small reservoirs, capacity, 3,650 acre-ft (4.50 hm³). Diversions above station for irrigation of about 80 acres (32 hm²) below station.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							37	87	390	240	133	104
2							36	92	444	240	131	100
3							35	84	685	282	130	98
4							35	87	930	252	130	94
5							35	101	942	215	128	92
6							38	126	620	202	126	94
7							39	148	464	195	124	91
8							38	161	382	185	130	88
9							40	175	337	168	133	87
10							41	185	340	165	140	85
11							39	142	424	159	130	92
12							39	133	780	152	121	91
13							38	133	1,140	139	120	89
14							37	118	1,330	137	118	92
15							38	104	1,210	131	116	89
16							40	88	1,080	128	113	85
17							42	85	1,050	130	108	84
18							44	104	995	128	106	82
19							50	165	870	130	102	81
20							56	235	798	165	104	80
21							45	188	710	200	107	80
22							41	140	500	152	104	78
23							48	131	468	135	101	78
24							63	157	456	123	100	77
25							108	220	412	118	98	77
26							131	539	368	112	95	76
27							120	1,020	337	108	95	76
28							95	1,470	300	131	94	77
29							85	1,490	276	135	94	77
30							84	732	252	133	94	76
31							-----	452	-----	133	94	-----
TOTAL							1,617	9,092	19,290	5,023	3,519	2,570
MEAN							53.9	293	643	162	114	85.7
MAX							131	1,490	1,330	282	140	104
MIN							35	84	252	108	94	76
AC-FT							3,210	18,030	38,260	9,960	6,980	5,100

PEAK DISCHARGE (BASE, 750 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0100	5.52	1,780
6-4	0400	4.65	1,060
6-15	0200	5.42	1,690

YELLOWSTONE RIVER BASIN

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 (55 m) upstream from Bighorn Canyon National Recreation Area boundary, 0.5 mi (0.8 km) upstream from normal high-water line of Bighorn Lake at elevation 3,660 ft (1,116 m), 1.3 mi (2.1 km) upstream from Five Springs Creek, and 5.9 mi (9.5 km) south of Kane.

DRAINAGE AREA.--15,765 mi² (40,831 km²). Area at sites used prior to May 17, 1956, 15,846 mi² (41,041 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,660 ft (1,116 m), 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 mi (20.1 km) downstream at different datum.

AVERAGE DISCHARGE.--46 years, 2,292 ft³/s (64.91 m³/s), 1,661,000 acre-ft/yr (2,048 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,580 ft³/s (271 m³/s) May 29, gage height, 5.90 ft (1.798 m); maximum gage height, 8.67 ft (2.643 m) Dec. 27 (backwater from ice); minimum daily discharge, 1,280 ft³/s (36.2 m³/s) Sept. 9-11.

Period of record: Maximum discharge, 25,200 ft³/s (714 m³/s) June 16, 1935, gage height, 11.10 ft (3.383 m), site and datum then in use; minimum daily, 179 ft³/s (5.07 m³/s) July 22, 1934.

Maximum stage known, 14.8 ft (4.51 m) Sept. 30, 1923, site and datum in use April 1932 to May 1956.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Boysen Reservoir since October 1951. (See page 89.) Diversions for irrigation of about 376,000 acres (1,522 km²) 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 CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,440	3,030	2,860	1,650	1,750	2,800	2,670	2,700	4,560	5,450	2,020	2,150
2	3,340	3,070	2,860	1,650	1,700	2,900	2,520	2,740	4,220	5,210	2,010	2,280
3	3,030	3,000	2,780	1,650	1,750	2,900	2,540	3,030	4,240	5,610	1,990	2,400
4	2,960	2,930	2,620	1,600	1,750	2,800	2,560	2,930	4,810	5,410	1,980	2,350
5	2,950	2,880	1,800	1,550	1,750	2,800	2,520	2,690	5,510	5,210	2,040	2,250
6	2,930	2,930	1,710	1,500	1,750	2,800	2,620	2,590	5,330	5,030	2,050	1,530
7	2,910	3,070	1,680	1,500	1,750	2,800	2,640	2,690	4,580	4,970	2,100	1,310
8	2,860	3,150	1,760	1,550	1,750	2,700	2,640	2,720	4,600	4,870	2,200	1,290
9	2,860	3,100	1,810	1,550	1,750	2,800	2,580	2,080	4,160	4,500	2,300	1,280
10	3,100	3,050	1,790	1,550	1,800	2,800	2,580	3,220	3,840	3,100	2,200	1,280
11	3,190	3,030	1,720	1,550	1,850	2,900	2,670	3,170	3,520	2,420	2,050	1,280
12	3,140	3,030	1,790	1,550	1,900	2,900	2,720	2,830	3,840	2,750	2,050	1,320
13	3,050	2,950	1,810	1,600	2,000	2,950	2,880	2,530	5,230	2,160	2,100	1,440
14	3,030	2,120	1,800	1,700	2,100	3,000	2,830	2,360	7,100	2,110	2,100	1,480
15	3,130	1,980	1,760	1,750	2,200	2,900	2,830	2,360	8,500	2,060	2,100	1,520
16	3,100	1,950	1,740	1,800	2,300	2,800	2,740	2,260	8,200	2,050	2,100	1,580
17	3,050	1,940	1,780	1,900	2,400	2,800	2,640	2,180	7,300	2,160	2,100	1,570
18	3,030	1,950	1,700	1,950	2,500	2,800	2,620	2,130	6,910	2,190	2,100	1,490
19	3,000	1,970	1,600	1,900	2,600	2,700	2,650	2,160	5,880	2,180	2,100	1,430
20	3,000	1,940	1,600	1,850	2,700	2,200	2,750	2,420	7,410	2,340	2,110	1,430
21	3,050	1,910	1,600	1,800	2,800	1,800	2,930	2,950	6,720	2,740	2,080	1,450
22	2,960	1,870	1,650	1,800	2,700	1,950	3,000	2,750	6,090	2,830	2,120	1,530
23	3,000	1,840	1,700	1,700	2,700	2,220	2,740	2,520	7,150	2,830	2,120	1,610
24	2,950	1,760	1,800	1,700	2,700	2,660	2,530	2,350	7,240	2,500	2,110	1,620
25	2,950	1,840	1,800	1,800	2,700	2,740	3,050	2,290	7,080	2,320	2,060	1,520
26	2,960	1,840	1,750	1,800	2,700	2,800	3,890	2,820	5,780	2,180	2,060	1,620
27	2,960	1,790	1,750	1,750	2,700	2,750	4,670	3,950	6,550	2,060	2,050	1,530
28	2,960	1,780	1,750	1,750	2,800	2,740	4,440	5,400	6,240	2,040	2,040	1,840
29	2,960	2,610	1,750	1,700	-----	2,740	3,730	8,400	5,920	2,050	2,020	1,900
30	2,960	2,850	1,750	1,750	-----	2,700	2,960	7,980	5,650	2,060	2,020	1,800
31	2,960	-----	1,700	1,800	-----	2,700	-----	5,750	-----	2,020	2,090	-----
TOTAL	93,670	73,160	57,970	52,650	61,850	83,850	87,250	100,950	174,760	96,910	64,570	49,280
MEAN	3,022	2,439	1,870	1,698	2,209	2,705	2,908	3,256	5,825	3,126	2,083	1,643
MAX	3,440	3,150	2,860	1,950	2,800	3,000	4,670	8,400	8,500	5,610	2,300	2,400
MIN	2,860	1,760	1,600	1,500	1,700	1,800	2,520	2,130	3,520	2,020	1,980	1,280
AC-FT	185,800	145,100	115,000	104,400	122,700	166,300	173,100	200,200	346,600	192,200	128,100	97,750

CAL YR 1973 TOTAL 915,329 MEAN 2,508 MAX 8,400 MIN 718 AC-FT 1,816,000
WTR YR 1974 TOTAL 996,870 MEAN 2,731 MAX 8,500 MIN 1,280 AC-FT 1,977,000

06280300 SOUTH FORK SHOSHONE RIVER NEAR VALLEY, WYO.

LOCATION.--Lat 42°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 (23 m) downstream from U.S. Forest Service bridge, 0.4 mi (0.6 km) downstream from Boulder Creek, 3.2 mi (5.1 km) northeast of Valley, and 34 mi (55 km) southwest of Cody.

DRAINAGE AREA.--297 mi² (769 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), from topographic map. Prior to Nov. 22, 1961, at site 75 ft (23 m) upstream at same datum.

AVERAGE DISCHARGE.--17 years, 434 ft³/s (12.29 m³/s), 314,400 acre-ft/yr (388 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,560 ft³/s (157 m³/s) June 15, gage height, 7.47 ft (2.277 m); minimum daily, 45 ft³/s (1.27 m³/s) Jan. 11.

Period of record (revised): Maximum discharge, 8,220 ft³/s (233 m³/s) June 15, 1963, gage height, 8.83 ft (2.691 m), from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 41 ft³/s (1.16 m³/s) Feb. 27, 28, 1961.

REVISIONS.--The maximum discharge for the water year 1963 has been revised to 8,220 ft³/s (233 m³/s) June 15, 1963, gage height, 8.83 ft (2.691 m), superseding figure published in WSP 1916.

REMARKS.--Records good except those for January, which are poor. Diversions for irrigation of about 450 acres (1.82 km²) above station.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water year 1963, superseding those published in WSP 1916, are given below:

	Date	Discharge				
	June 15, 1963	5,560				
	Cfs-days	Maximum	Minimum	Mean	Acre-feet	
June 1963...	64,080	5,560	1,160	2,136	127,100	
WTR YR 1963.	164,494	5,560	42	451	326,300	

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	125	112	55	72	72	72	394	1,420	2,400	809	304
2	168	113	113	52	73	77	72	431	1,740	2,270	750	289
3	162	108	94	50	72	74	70	336	2,120	1,990	671	262
4	154	104	96	50	70	70	69	349	2,300	2,050	665	248
5	150	106	80	50	70	60	70	554	2,300	2,040	665	244
6	148	114	77	50	60	55	71	688	1,710	1,980	624	237
7	146	125	109	50	50	52	70	661	1,410	1,940	630	231
8	153	126	108	48	52	54	70	816	1,220	1,880	607	224
9	158	129	91	47	52	60	73	788	1,090	1,880	556	220
10	156	131	83	46	60	64	89	740	1,210	1,880	618	217
11	153	137	97	45	62	62	91	513	1,610	1,740	496	231
12	151	187	101	50	64	70	94	436	2,380	1,520	481	237
13	151	192	95	60	67	74	91	418	3,280	1,490	460	224
14	151	165	95	70	64	68	86	350	3,890	1,470	539	210
15	154	157	93	85	67	68	89	318	4,390	1,450	481	201
16	151	152	97	96	67	73	107	281	4,790	1,530	430	194
17	149	149	101	94	69	75	138	291	4,650	1,450	420	188
18	146	149	103	86	68	74	190	337	4,680	1,350	410	182
19	144	145	85	85	65	72	258	462	4,470	1,260	401	182
20	144	121	74	82	55	60	293	457	4,390	1,270	382	182
21	140	113	95	82	52	55	209	371	3,810	1,230	354	179
22	137	106	100	68	52	50	193	339	3,340	1,200	333	175
23	135	92	97	65	52	48	317	387	3,360	1,150	325	169
24	133	83	84	70	52	49	466	618	3,520	1,090	325	166
25	129	79	79	74	55	59	715	938	3,610	1,040	316	163
26	122	68	74	73	63	74	746	1,390	3,410	977	316	160
27	120	67	69	72	68	79	465	2,480	2,950	927	312	166
28	120	86	67	72	67	81	307	3,050	2,770	877	312	166
29	124	105	65	72	-----	76	254	2,740	2,780	829	308	160
30	122	109	62	70	-----	75	290	1,790	2,700	829	304	157
31	124	-----	60	69	-----	75	-----	1,320	-----	815	300	-----
TOTAL	4,463	3,643	2,756	2,038	1,740	2,055	6,125	25,043	87,300	45,804	14,600	6,168
MEAN	144	121	88.9	65.7	62.1	66.3	204	808	2,910	1,478	471	206
MAX	168	192	113	96	73	81	746	3,050	4,790	2,400	809	304
MIN	120	67	60	45	50	48	69	281	1,090	815	300	157
AC-FT	8,850	7,230	5,470	4,040	3,450	4,080	12,150	49,670	173,200	90,850	28,960	12,230

CAL YR 1973 TOTAL 120,209 MEAN 329 MAX 3,000 MIN 55 AC-FT 238,400
WTR YR 1974 TOTAL 201,735 MEAN 553 MAX 4,790 MIN 45 AC-FT 400,100

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-27	2230	6.58	3,750
6-15	2300	7.47	5,560

LOCATION.--Lat 44°25'58", long 109°15'06", in lot 46, sec.33, T.52 N., R.103 W., Park County, on right bank at bridge on county road, 1.0 mi (1.6 km) upstream from normal high-water line of Buffalo Bill Reservoir at elevation 5,360 ft (1,634 m), 1.1 mi (1.8 km) downstream from Cody Canal diversion, and 11.5 mi (18.5 km) southwest of Cody.

PERIOD OF RECORD.--May to November 1903, May 1905 to May 1908, January 1921 to September 1926, October 1973 to September 1974. No winter records 1906, 1908, 1922. Published as "at Marquette" 1903, 1905-8, and as Shoshone River above Shoshone Reservoir 1921-26.

AVERAGE DISCHARGE.--6 years (1906-7, 1922-26, 1973-74), 495 ft³/s (14.02 m³/s), 358,600 acre-ft/yr (442 hm³/yr).

Period of record: Maximum discharge, 6,600 ft³/s (187 m³/s) June 16, 1974; maximum gage height, 6.15 ft (1.875 m) June 19, 1974 (backwater from Buffalo Bill Reservoir); minimum daily discharge, 5.6 ft³/s (0.16 m³/s) Oct. 25, 1973.

REVISIONS (WATER YEARS). --WSP 1309: 1907.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	73	159	70	125	125	124	452	1,240	2,800	375	24
2	73	118	159	70	125	130	104	549	1,550	2,450	328	25
3	69	124	159	70	125	120	122	418	2,050	2,070	262	24
4	38	124	156	70	120	110	97	345	2,450	1,790	248	24
5	21	162	166	70	110	100	99	518	2,290	1,960	243	24
6	18	190	111	70	95	95	124	763	1,710	1,980	194	23
7	17	198	124	70	90	90	106	677	1,370	1,800	183	22
8	12	205	129	70	90	95	102	868	1,220	1,860	194	21
9	14	209	124	60	100	95	113	824	1,020	1,860	132	21
10	25	235	118	60	105	99	132	804	1,020	1,880	235	20
11	23	262	116	60	110	97	135	518	1,300	1,790	129	21
12	34	286	121	70	115	99	146	356	2,030	1,400	73	21
13	34	323	121	84	115	104	137	306	3,200	1,360	63	20
14	37	276	129	100	110	97	129	222	4,690	1,370	97	20
15	32	262	120	130	115	95	137	150	5,350	1,310	97	20
16	34	248	124	100	115	99	176	106	5,810	1,360	54	19
17	32	243	121	170	115	115	239	111	5,470	1,300	50	18
18	29	235	121	155	115	126	345	194	5,390	1,190	49	17
19	26	235	121	145	105	106	473	323	5,190	1,010	46	16
20	22	205	110	140	92	95	624	281	4,920	1,040	43	16
21	19	202	106	140	87	90	425	187	4,470	1,020	41	15
22	18	194	113	120	90	99	381	116	3,610	948	38	15
23	13	183	116	115	90	95	564	121	3,610	937	34	15
24	6.2	162	108	120	90	92	783	276	3,700	845	30	15
25	5.6	166	97	130	100	88	1,020	677	3,890	742	29	14
26	7.5	156	104	125	110	106	1,120	1,050	3,670	624	30	14
27	9.8	129	90	125	115	137	714	2,260	3,260	572	29	15
28	10	143	82	125	120	140	446	3,640	2,930	518	26	15
29	11	150	78	125	-----	113	334	3,260	2,870	439	30	14
30	9.8	169	76	120	-----	116	356	1,940	2,930	425	29	14
31	11	-----	72	120	-----	116	-----	1,220	-----	406	25	-----
TOTAL	813.9	5,867	3,665	3,287	2,994	3,282	9,747	23,532	94,210	41,056	3,436	562
MEAN	26.3	196	118	106	107	106	325	759	3,140	1,324	111	18.7
MAX	1.4	323	166	170	125	140	1,120	3,640	5,810	2,800	375	25
MIN	5.6	73	72	66	87	88	97	166	1,020	406	25	14
AC-FT	1,610	11,640	7,270	6,520	5,940	6,510	19,330	46,680	186,900	81,430	6,820	1,110
WTR YR 1974 TOTAL 192,451.9 MEAN 527 MAX 5,810 MIN 5.6 AC-FT 381,700												

YELLOWSTONE RIVER BASIN

51

06282000 SHOSHONE RIVER BELOW BUFFALO BILL RESERVOIR, WYO.

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 mi (0.8 km) downstream from Trail Creek, 1.0 mi (1.6 km) west of Cody city limits, and 5.5 mi (8.8 km) downstream from Buffalo Bill Reservoir.

DRAINAGE AREA.--1,538 mi² (3,983 km²). Area at site prior to Oct. 1, 1949, 1,502 mi² (3,890 km²).

PERIOD OF RECORD.--January 1921 to current year. Prior to October 1944, published as "below Shoshone Reservoir."

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,494 m), from topographic map. Prior to Oct. 1, 1949, at site 2.5 mi (4.0 km) upstream at different datum.

AVERAGE DISCHARGE.--21 years (1921-42), prior to Heart Mountain diversion, 1,256 ft³/s (35.57 m³/s), 909,300 acre-ft/yr (1,121 hm³/yr); 32 years (1942-74), 1,156 ft³/s (32.74 m³/s) 837,500 acre-ft/yr (1,033 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,000 ft³/s (340 m³/s) June 20, gage height, 10.36 ft (3.158 m); minimum daily, 383 ft³/s (10.8 m³/s) Apr. 10.

Period of record: Maximum discharge, 14,700 ft³/s (416 m³/s) May 28, 1928, gage height, 10.62 ft (3.237 m), site and datum then in use, from rating curve extended above 11,000 ft³/s (312 m³/s); minimum daily, 14 ft³/s (0.40 m³/s) Nov. 19, 1933.

Maximum flood known since construction of Buffalo Bill Reservoir, 18,700 ft³/s (530 m³/s) June 15, 1918, by computation of flow over dam.

REMARKS.--Records good. Flow completely regulated by Buffalo Bill Reservoir. (See page 89.) Diversions above station for irrigation of about 56,100 acres (227 km²), of which about 37,900 acres (153 km²) lies below station. Diversion, 2.1 mi (3.4 km) upstream, to Heart Mountain Canal began in 1943. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	893	416	473	570	578	573	461	1,360	997	7,620	1,410	996
2	838	414	471	570	578	573	401	1,350	1,010	7,010	1,360	973
3	730	414	507	570	579	573	401	1,380	1,030	6,320	1,340	973
4	731	414	563	570	577	572	400	1,430	1,140	5,680	1,380	973
5	733	414	585	570	578	570	401	1,430	1,200	5,390	1,380	965
6	733	413	584	570	578	570	402	1,440	1,190	5,330	1,420	951
7	736	413	582	500	578	568	402	1,450	1,180	5,160	1,430	951
8	737	420	578	430	578	568	402	1,450	1,180	4,980	1,430	943
9	737	425	579	430	578	569	403	1,470	1,180	4,700	1,430	943
10	685	420	571	430	578	568	383	1,480	1,180	4,640	1,430	943
11	640	420	568	430	578	568	401	1,480	1,170	4,520	1,430	943
12	636	420	568	430	578	568	413	1,490	1,210	4,130	1,380	936
13	636	420	568	430	578	568	415	1,490	1,180	3,780	1,350	929
14	638	420	568	410	578	568	413	1,480	1,610	3,570	1,290	880
15	644	420	568	420	578	568	440	1,420	2,220	3,450	1,240	843
16	609	432	568	420	578	568	700	1,390	2,230	3,410	1,240	841
17	538	416	568	450	578	568	900	1,390	3,260	3,380	1,240	845
18	538	411	568	580	578	570	940	1,390	5,340	3,140	1,190	844
19	494	410	569	578	578	569	870	1,390	9,070	2,950	1,130	846
20	436	446	569	579	578	573	870	1,250	10,200	2,830	1,130	845
21	430	495	568	581	575	570	900	1,100	11,100	2,810	1,130	841
22	459	495	568	578	575	571	1,020	1,030	11,100	2,660	1,130	842
23	437	493	569	578	575	568	1,210	1,020	10,500	2,570	1,050	841
24	435	491	569	578	574	568	1,300	1,020	10,400	2,350	1,000	839
25	434	491	568	578	573	568	1,380	1,020	10,500	2,200	1,000	838
26	434	491	568	578	574	553	1,390	1,020	10,600	2,020	996	845
27	434	489	569	578	573	551	1,380	1,020	9,880	1,840	996	838
28	434	486	573	576	573	553	1,370	1,040	8,970	1,660	996	838
29	415	501	572	577	-----	561	1,370	1,050	8,350	1,480	996	832
30	409	472	570	578	-----	561	1,350	1,030	8,030	1,420	989	813
31	415	-----	570	579	-----	560	-----	995	-----	1,490	989	-----
TOTAL	18,098	13,282	17,439	16,296	16,152	17,576	23,088	39,756	148,207	114,490	37,902	26,730
MEAN	584	443	563	526	577	567	770	1,282	4,940	3,693	1,223	891
MAX	893	501	585	581	579	573	1,390	1,490	11,100	7,620	1,430	996
MIN	409	410	471	410	573	551	383	995	997	1,420	989	813
AC-FT	35,900	26,340	34,590	32,320	32,040	34,860	45,800	78,860	294,000	227,100	75,180	53,020

CAL YR 1973 TOTAL 333,971 MEAN 915 MAX 1,540 MIN 406 AC-FT 662,400
WTR YR 1974 TOTAL 489,016 MEAN 1,340 MAX 11,100 MIN 383 AC-FT 970,000

YELLOWSTONE RIVER BASIN

06284200 SHOSHONE RIVER AT WILLWOOD, WYO.

LOCATION.--Lat 44°42'32", long 108°45'31", in NW¼NE¼NE¼ sec.34, T.55 N., R.99 W., Park County, on left bank 25 ft (8 m) downstream from bridge on State Secondary Highway 1505, 0.7 mi (1.1 km) north of Willwood, and 3.0 mi (4.8 km) south of Powell.

DRAINAGE AREA.--1,980 mi² (5,128 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,311 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 12,100 ft³/s (343 m³/s) June 20, gage height, 10.43 ft (3.179 m); minimum daily during period of operation, 369 ft³/s (10.4 m³/s) Sept. 19.

REMARKS.--Records good. Flow regulated by Buffalo Bill Reservoir. (See page 89.) Diversions above station for irrigation of about 92,500 acres (374 km²), of which about 46,800 acres (189 km²) lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							646	430	640	7,180	764	543
2							549	413	620	6,700	757	600
3							549	385	909	6,200	730	600
4							543	413	543	5,540	764	531
5							543	453	574	5,170	785	531
6							543	471	626	5,030	764	549
7							537	513	750	4,880	764	568
8							537	483	1,090	4,500	785	507
9							537	537	918	4,310	764	513
10							519	625	855	4,160	875	459
11							555	652	869	4,030	932	507
12							574	614	862	3,540	869	562
13							574	625	799	3,200	744	543
14							574	640	813	2,880	724	549
15							574	672	1,580	2,630	678	519
16							625	600	1,650	2,620	698	471
17							841	574	2,080	2,570	730	435
18							757	581	3,800	2,510	698	395
19							799	620	7,430	2,270	626	369
20							778	841	10,200	2,130	581	385
21							711	771	10,500	2,070	594	391
22							589	583	11,100	1,960	607	395
23							652	594	10,400	1,780	555	413
24							642	583	10,400	1,640	465	402
25							672	583	10,500	1,470	424	395
26							635	583	10,600	1,240	471	396
27							652	581	9,790	1,060	465	477
28							600	594	8,770	939	441	501
29					-----		537	625	8,070	792	453	525
30					-----		471	652	7,560	526	501	549
31		-----			-----		-----	620	-----	778	562	-----
TOTAL							18,415	17,941	135,298	96,705	20,571	14,584
MEAN							614	579	4,510	3,120	664	485
MAX							841	841	11,100	7,180	932	600
MIN							471	385	543	526	424	369
AC-FT							36,530	35,590	268,400	191,800	40,800	29,930

YELLOWSTONE RIVER BASIN

53

06284400 SHOSHONE RIVER NEAR GARLAND, WYO.

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 (15 m) downstream from bridge on county road, 600 ft (183 m) downstream from Penrose Dam, 1.3 mi (2.1 km) upstream from Bitter Creek, 4.3 mi (6.9 km) southeast of Garland, and 8.0 mi (12.9 km) east of Powell.

DRAINAGE AREA.--2,036 mi² (5,273 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 4,073.67 ft (1,241.655 m) above mean sea level (revised).

Prior to Nov. 12, 1965, at site 50 ft (15 m) upstream at present datum. Nov. 12, 1965, to June 13, 1968, at site 150 ft (46 m) upstream at datum 3.64 ft (1.109 m) higher.

AVERAGE DISCHARGE.--16 years, 670 ft³/s (18.97 m³/s), 485,400 acre-ft/yr (598 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,800 ft³/s (334 m³/s) June 20, gage height, 10.04 ft (3.060 m); minimum daily, 6.2 ft³/s (0.18 m³/s) May 3.

Period of record: Maximum discharge, 13,300 ft³/s (377 m³/s) July 1, 1967, gage height, 8.76 ft (2.670 m), from floodmark, site and datum then in use; minimum daily, 5.0 ft³/s (0.14 m³/s) May 25, 26, 1959.

REMARKS.--Records poor. Flow regulated by Buffalo Bill Reservoir. (See page 89.) Diversions above station for irrigation of about 143,000 acres (579 km²), of which 37,000 acres (150 km²) lies below station.

REVISIONS.--WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	664	637	620	550	664	624	9.4	180	6,290	520	272
2	620	637	637	600	550	671	543	7.0	168	5,980	400	329
3	537	592	630	560	550	678	531	6.2	470	5,850	385	355
4	531	598	657	550	550	657	508	7.0	110	5,170	420	275
5	525	598	685	550	550	644	492	11	110	4,850	486	260
6	520	592	720	550	550	657	498	21	110	4,810	430	272
7	520	611	735	550	550	671	498	57	240	4,520	450	302
8	503	611	735	550	550	671	492	32	640	4,440	503	257
9	486	611	728	550	550	657	492	48	480	4,070	475	234
10	481	657	742	550	550	664	485	102	420	3,700	579	200
11	455	699	692	550	550	664	450	151	420	3,400	657	249
12	445	678	671	550	550	671	450	122	400	3,040	630	305
13	430	630	685	600	550	671	455	135	365	2,520	460	319
14	425	624	692	650	550	671	445	140	245	2,320	455	319
15	425	604	685	700	550	664	440	171	1,220	2,210	400	289
16	425	598	685	735	550	664	455	127	1,340	2,130	415	234
17	380	624	685	585	550	664	522	117	1,860	2,090	450	184
18	342	592	706	579	550	657	485	151	3,950	1,940	455	162
19	332	592	713	630	550	630	543	162	8,190	1,730	390	129
20	319	598	713	637	671	678	525	380	10,500	1,600	355	140
21	300	618	706	630	564	692	450	375	9,990	1,590	356	148
22	280	637	706	624	557	644	293	193	9,960	1,450	365	157
23	600	637	706	637	592	630	289	180	9,560	1,270	332	174
24	570	637	706	644	657	637	258	168	9,280	1,160	230	168
25	550	637	706	644	692	644	168	157	9,260	1,010	193	151
26	531	630	692	650	706	650	144	148	9,030	955	203	142
27	514	624	699	650	692	650	155	137	8,580	599	187	187
28	498	624	657	644	657	650	114	142	7,790	592	154	205
29	481	650	685	650	-----	657	75	154	7,080	531	160	241
30	470	657	660	650	-----	657	20	190	6,640	508	196	260
31	537	-----	640	650	-----	657	-----	184	-----	592	268	-----
TOTAL	14,632	18,761	21,396	18,919	18,338	20,436	12,015	3,984.5	118,588	83,117	11,961	6,922
MEAN	472	625	690	610	555	659	401	129	3,953	2,681	386	231
MAX	620	699	742	735	706	692	624	380	10,500	6,290	657	355
MIN	280	592	630	550	592	630	20	6.2	110	508	154	129
AC-FT	29,020	37,210	42,440	37,530	35,370	40,530	23,830	7,900	235,200	164,900	23,720	13,730

CAL YR 1973 TOTAL 207,847.8 MEAN 569 MAX 1,030 MIN 7.8 AC-FT 412,300
WTR YR 1974 TOTAL 349,070.6 MEAN 956 MAX 10,500 MIN 6.2 AC-FT 692,400

YELLOWSTONE RIVER BASIN

06284500 BITTER CREEK NEAR GARLAND, WYO.

LOCATION.--Lat 44°45'13", long 108°35'29", in SW¼SW¼SW¼ sec.7, T.55 N., R.97 W., Big Horn County, on left bank 100 ft (30 m) downstream from bridge on county road, 1.0 mi (1.6 km) upstream from mouth, 4.0 mi (6.4 km) southeast of Garland, and 5.0 mi (8.0 km) southwest of Byron.

DRAINAGE AREA.--80.5 mi² (208.5 km²).

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 (1,244 m), from topographic map.

AVERAGE DISCHARGE.--12 years (1950-53, 1957-60, 1968-74), 148 ft³/s (4.191 m³/s), 107,200 acre-ft/yr (132 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 481 ft³/s (13.6 m³/s) Aug. 12, gage height, 2.84 ft (0.866 m); minimum daily, 16 ft³/s (0.45 m³/s) Mar. 19.

Period of record: Maximum discharge, 1,510 ft³/s (42.8 m³/s) June 10, 1960, gage height, 4.48 ft (1.366 m), from rating curve extended above 390 ft³/s (11.0 m³/s); minimum daily, 0.50 ft³/s (0.014 m³/s) Jan. 30 to Feb. 3, 1969.

REMARKS.--Records good except those for January, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	46	30	22	20	21	18	191	358	289	349	281
2	246	45	30	20	19	22	18	200	341	295	334	294
3	240	42	29	19	20	19	18	203	256	346	369	294
4	241	41	29	20	20	19	18	203	293	340	397	275
5	240	40	29	20	20	20	18	214	267	343	380	276
6	237	42	31	19	19	19	18	235	258	331	358	276
7	240	40	27	20	20	19	18	215	289	343	380	289
8	234	40	28	21	20	19	17	203	333	325	397	308
9	237	40	29	21	20	19	18	211	338	316	418	319
10	228	42	31	20	20	20	18	249	328	322	425	322
11	225	43	27	20	20	20	18	261	325	307	425	330
12	221	41	27	20	20	20	19	274	322	286	429	331
13	215	40	27	21	20	20	19	306	310	280	358	322
14	206	38	26	23	20	19	18	305	292	283	343	322
15	205	36	27	25	20	20	17	324	292	283	325	316
16	212	37	26	27	20	20	18	338	313	274	331	292
17	215	36	26	27	20	22	17	360	295	289	328	289
18	210	35	25	26	20	21	32	374	298	298	337	297
19	208	34	25	24	20	16	115	405	307	310	322	307
20	212	33	24	23	20	18	110	407	310	319	337	318
21	210	34	24	22	19	19	171	388	319	325	346	311
22	198	32	24	22	20	18	158	362	340	334	360	311
23	80	31	24	22	20	19	151	355	358	322	364	320
24	64	31	24	21	20	19	200	348	352	322	342	314
25	57	31	24	20	20	20	203	335	337	328	338	322
26	51	30	24	20	19	20	194	350	310	334	328	323
27	50	32	24	20	20	20	204	347	304	325	290	346
28	48	29	24	20	20	20	173	359	283	349	292	343
29	47	30	24	20	-----	18	175	351	277	362	296	341
30	47	30	23	20	-----	19	182	349	286	358	290	344
31	46	-----	23	21	-----	19	-----	352	-----	366	280	-----
TOTAL	5,415	1,101	815	666	556	604	2,373	9,378	9,291	9,904	10,868	9,333
MEAN	175	36.7	26.3	21.5	19.9	19.5	79.1	303	310	319	351	311
MAX	246	46	31	27	20	22	204	407	358	366	429	346
MIN	46	29	23	19	19	16	17	191	256	274	280	275
AC-FT	10,740	2,180	1,620	1,320	1,100	1,200	4,710	18,600	18,430	19,640	21,560	18,510

CAL YR 1973 TOTAL 54,863 MEAN 150 MAX 507 MIN 15 AC-FT 108,800
WTR YR 1974 TOTAL 60,304 MEAN 165 MAX 429 MIN 16 AC-FT 119,600

YELLOWSTONE RIVER BASIN

55

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 (91 m) upstream from Elk-Lovell Canal, 5.6 mi (9.0 km) southeast of Garland, and 6.3 mi (10.1 km) southwest of Byron.

DRAINAGE AREA.--101 mi² (262 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,150 ft (1,265 m), from topographic map. Prior to May 31, 1960, at different datum.

AVERAGE DISCHARGE.--7 years (1958-59, 1968-74), 28.7 ft³/s (0.813 m³/s), 20,790 acre-ft/yr (25.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 884 ft³/s (25.0 m³/s) July 22, gage height, 5.11 ft (1.558 m); minimum daily, 0.35 ft³/s (0.010 m³/s) Jan. 7.

Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Sept. 1, 1973, gage height, 6.43 ft (1.960 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Jan. 12, 1971.

Flood of Sept. 19, 1961, reached a discharge of 4,260 ft³/s (121 m³/s), at site 6.5 mi (10.5 km) upstream.

REMARKS.--Records good except those for November to March, which are 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	33	2.0	.70	.70	.80	1.5	1.2	32	51	43	46	57
2	32	1.9	.80	.60	.80	1.6	1.1	38	53	50	48	61
3	32	1.8	1.3	.50	.85	1.5	1.1	43	46	101	54	61
4	32	1.8	1.2	.40	.90	1.4	1.1	38	38	61	62	59
5	32	1.8	1.2	.45	1.0	1.4	1.1	35	42	54	64	62
6	32	1.9	1.2	.40	.80	1.5	1.1	37	44	57	59	57
7	33	2.0	1.2	.35	.80	1.3	1.1	41	97	59	50	56
8	33	1.8	1.3	.40	.85	1.3	1.1	41	160	57	61	59
9	35	1.8	1.2	.40	.90	1.4	1.1	37	57	51	57	62
10	36	1.9	1.1	.40	1.0	1.4	1.2	42	61	50	61	65
11	41	2.0	1.1	.40	1.0	1.5	1.2	45	61	48	57	57
12	37	2.2	1.1	.37	1.2	1.5	1.4	57	59	47	56	59
13	33	2.1	1.1	.45	1.2	1.5	1.4	63	51	44	57	59
14	30	1.8	1.1	.55	1.2	1.4	2.2	62	47	42	56	61
15	27	1.7	1.1	.65	1.2	1.3	2.3	59	57	47	61	54
16	28	1.8	1.1	.80	1.2	1.3	1.9	54	65	50	56	59
17	29	1.8	1.1	.80	1.2	1.5	1.4	54	65	39	56	54
18	28	1.6	1.1	.75	1.1	1.6	1.0	64	61	41	59	54
19	27	1.3	1.0	.70	1.3	1.5	36	64	50	47	57	61
20	15	1.0	.90	.70	1.4	1.2	36	64	57	46	54	59
21	5.0	.70	.90	.70	1.3	1.1	43	64	51	50	50	59
22	3.4	.60	1.0	.65	1.3	1.2	43	71	57	131	47	65
23	3.1	.60	1.0	.65	1.3	1.3	35	63	62	41	48	57
24	3.0	.50	1.0	.70	1.2	1.1	27	51	65	37	56	51
25	3.0	.46	1.0	.70	1.2	1.1	29	53	59	36	57	50
26	3.0	.44	.95	.75	1.3	1.2	36	57	65	42	59	51
27	3.0	.42	.90	.70	1.4	1.4	39	57	57	48	50	53
28	3.0	.40	.90	.65	1.3	1.4	38	67	43	50	50	51
29	2.5	.50	.85	.70	-----	1.2	36	64	39	44	53	53
30	2.3	.60	.85	.85	-----	1.1	38	57	37	38	56	51
31	2.2	-----	.80	.85	-----	1.2	-----	53	-----	38	57	-----
TOTAL	658.5	41.22	32.05	18.67	31.00	41.9	460.0	1,640	1,757	1,589	1,714	1,717
MEAN	21.2	1.37	1.03	.60	1.11	1.35	15.3	52.9	58.6	51.3	55.3	57.2
MAX	41	2.2	1.3	.85	1.4	1.6	43	71	160	131	64	65
MIN	2.2	.40	.70	.35	.80	1.1	1.0	32	37	36	46	50
AC-FT	1,310	82	64	37	61	83	912	3,250	3,490	3,150	3,400	3,410

CAL YR 1973 TOTAL 9,807.17 MEAN 26.9 MAX 400 MIN .40 AC-FT 19,450

WTR YR 1974 TOTAL 9,700.34 MEAN 26.6 MAX 160 MIN .35 AC-FT 19,240

NOTE.--No gage-height record Nov. 26 to Feb. 19.

YELLOWSTONE RIVER BASIN

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 (9 m) upstream from bridge on U.S. Highway 310 and 1.5 mi (2.4 km) west of Lovell.

DRAINAGE AREA.--2,350 mi² (6,090 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft (1,173 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 1,080 ft³/s (30.59 m³/s), 782,500 acre-ft/yr (965 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) June 20, gage height, 5.80 ft (1.768 m); minimum daily, 195 ft³/s (5.52 m³/s) May 4.

Period of record: Maximum discharge, 13,400 ft³/s (379 m³/s) July 1, 1967, gage height, 6.49 ft (1.978 m); maximum gage height, 8.09 ft (2.466 m) Feb. 3, 1972 (backwater from ice); minimum daily discharge, 195 ft³/s (5.52 m³/s) May 4, 1974.

REMARKS.--Records fair except those for periods of no gage-height record and those below 500 ft³/s (14.2 m³/s), which are poor. Flow regulated by Buffalo Bill Reservoir. (See page 89.) Natural flow of stream affected by storage reservoirs, power development, diversions above station for irrigation of about 143,000 acres (579 km²), of which about 8,000 acres (32.4 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	1,070	814	688	600	716	695	695	215	730	7,500	908	688
2	1,090	768	641	580	709	716	569	199	709	6,850	695	768
3	990	695	674	550	723	709	555	207	864	6,850	768	798
4	890	688	709	550	760	674	541	195	513	6,140	839	695
5	856	688	730	550	716	667	527	211	464	5,780	908	681
6	848	695	730	550	745	681	555	271	506	5,720	798	702
7	839	730	730	550	760	688	527	305	839	5,510	848	730
8	839	730	720	550	723	688	505	280	1,640	5,280	944	702
9	882	723	720	550	716	688	492	290	1,250	4,850	935	688
10	908	752	720	550	695	702	492	425	1,090	4,430	1,070	671
11	805	873	680	550	695	709	471	534	1,030	4,080	1,200	775
12	768	814	660	550	709	716	485	513	1,010	3,590	1,140	836
13	730	745	680	600	702	709	492	590	917	3,260	926	830
14	702	716	700	650	695	702	478	597	745	2,920	890	790
15	688	695	700	700	702	695	478	632	1,720	2,700	848	775
16	695	688	700	750	709	695	478	597	2,040	2,570	864	674
17	646	702	700	750	695	702	645	611	2,370	2,490	890	555
18	576	667	700	750	688	709	583	667	4,990	2,370	917	541
19	548	667	700	750	709	653	730	709	8,250	2,150	856	505
20	562	667	700	745	730	723	752	1,040	10,800	1,940	814	548
21	485	688	700	723	723	738	738	990	9,990	1,980	856	555
22	444	709	700	738	702	688	569	763	10,700	2,040	856	575
23	730	709	700	752	511	681	492	715	10,400	1,580	930	590
24	702	709	700	730	546	688	527	674	10,100	1,410	702	541
25	688	709	700	716	688	695	450	653	9,870	1,250	646	527
26	723	702	700	716	730	716	414	667	9,810	1,100	653	527
27	688	695	700	723	709	709	505	653	9,360	944	590	688
28	667	688	660	723	567	709	390	667	9,030	848	541	760
29	632	709	700	716	-----	709	365	667	8,430	917	548	805
30	583	730	660	709	-----	709	285	723	7,890	908	583	882
31	646	-----	620	716	-----	709	-----	730	-----	990	660	-----
TOTAL	22,920	21,565	21,562	20,337	19,773	21,672	15,789	16,997	138,057	101,157	25,523	20,404
MEAN	739	719	696	656	706	699	525	543	4,602	3,253	823	680
MAX	1,090	873	730	752	760	738	752	1,040	10,800	7,500	1,200	882
MIN	444	667	620	550	511	653	285	195	464	384	541	505
AC-FT	45,460	42,770	42,770	40,340	39,220	42,990	31,320	33,710	273,800	200,500	50,620	40,470

CAL YR 1973 TOTAL 319,835 MEAN 876 MAX 2,910 MIN 200 AC-FT 634,400
 WTR YR 1974 TOTAL 445,756 MEAN 1,221 MAX 10,800 MIN 195 AC-FT 884,200

NOTE.--No gage-height record Dec. 8 to Jan. 19, June 18-20.

YELLOWSTONE RIVER BASIN

57

06285400 SAGE CREEK AT SIDON CANAL, NEAR DEAVER, 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 (91 m) downstream from Polecat Creek, 800 ft (244 m) upstream from Sidon Canal crossing, and 2.4 mi (3.9 km) east of Deaver.

DRAINAGE AREA.--341 mi² (883 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,020 ft (1,225 m), from topographic map.

AVERAGE DISCHARGE.--7 years (1958-59, 1968-74), 65.5 ft³/s (1.855 m³/s), 47,450 acre-ft/yr (58.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 221 ft³/s (6.26 m³/s) June 7, gage height, 3.60 ft (1.097 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 6.

Period of record: Maximum discharge, 2,250 ft³/s (63.7 m³/s) June 8, 1958, gage height, 9.22 ft (2.810 m), from floodmark, on basis of slope-area measurement of peak flow; minimum daily, 0.50 ft³/s (0.014 m³/s) Feb. 2-6, Feb. 21 to Mar. 5, 1960.

REMARKS.--Records fair except those for December to February, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	39	23	15	23	21	22	53	121	61	61	101
2	121	37	23	14	22	21	22	44	109	59	58	111
3	124	34	20	13	23	20	22	44	97	89	64	124
4	121	33	18	14	23	22	23	47	57	89	73	123
5	121	35	18	14	23	25	24	49	104	94	71	106
6	104	34	17	12	21	26	25	49	119	86	64	109
7	99	29	22	13	22	25	24	48	173	80	66	118
8	55	28	23	14	22	25	22	38	197	80	79	117
9	100	29	21	15	22	24	22	35	180	60	73	121
10	123	32	19	16	22	25	23	31	174	63	80	119
11	141	36	18	17	22	32	25	34	169	64	95	136
12	142	36	18	18	22	32	26	35	146	60	99	150
13	140	34	18	19	22	32	32	40	103	57	110	159
14	140	32	17	24	22	29	33	44	86	53	116	156
15	133	31	17	32	22	25	31	52	80	56	111	149
16	127	31	17	34	22	28	29	56	86	55	121	131
17	124	31	17	33	22	35	25	57	87	54	116	122
18	119	31	15	31	21	38	22	62	75	52	110	112
19	110	28	13	29	21	33	23	60	68	48	104	101
20	104	25	14	27	21	25	17	95	62	57	127	100
21	109	29	15	26	21	33	44	107	58	54	140	97
22	110	20	16	26	21	26	98	104	59	47	136	98
23	122	25	17	25	22	26	122	111	66	49	145	97
24	48	22	17	24	23	28	103	106	63	52	139	99
25	39	24	17	23	24	28	78	97	65	56	136	107
26	36	23	17	23	22	29	81	97	59	53	132	105
27	34	20	17	23	19	29	103	112	60	52	122	106
28	35	22	17	23	18	27	105	136	56	54	113	101
29	35	23	16	23	-----	24	94	156	56	52	105	98
30	34	22	16	23	-----	25	69	146	62	55	99	104
31	35	-----	15	23	-----	25	-----	141	-----	64	104	-----
TOTAL	3,033	875	548	666	610	843	1,389	2,286	2,897	1,905	3,169	3,477
MEAN	97.8	28.2	17.7	21.5	21.8	27.2	46.3	73.7	96.6	61.5	102	116
MAX	142	39	23	34	24	38	122	156	197	94	145	159
MIN	34	20	13	12	18	20	17	31	56	47	58	97
AC-FT	6,020	1,740	1,090	1,320	1,210	1,670	2,760	4,530	5,750	3,780	6,290	6,900

CAL YR 1973 TOTAL 21,151.2 MEAN 57.9 MAX 219 MIN 7.2 AC-FT 41,950
WTR YR 1974 TOTAL 21,698.0 MEAN 59.4 MAX 197 MIN 12 AC-FT 43,040

NOTE.--No gage-height record Dec. 26 to Feb. 20.

YELLOWSTONE RIVER BASIN

06286258 BIG COULEE NEAR LOVELL, WYO.

LOCATION.--Lat 44°58'04", long 108°17'24", in SE¼NE¼NE¼ sec.34, T.58 N., R.95 W., Big Horn County, on right bank 300 ft (91 m) downstream from county road, 0.6 mi (1.0 km) upstream from mouth, and 10 mi (16 km) northeast of Lovell.

DRAINAGE AREA.--30.1 mi² (78.0 km²). Area at site used Aug. 31, 1972 to Apr. 23, 1974, 28.8 mi² (74.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,750 ft (1,143 m), from topographic map. Aug. 31, 1972, to Apr. 23, 1974, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) July 20, gage height, 4.66 ft (1.420 m), by slope-area measurement of peak flow; no flow most of year.

Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) July 20, 1974, gage height, 4.66 ft (1.420 m), by slope-area measurement of peak flow; no flow most of each year.

REMARKS.--Records poor. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	0	
2									0	0	0	
3									0	.01	0	
4									0	0	0	
5									0	0	0	
6									0	0	0	
7									.67	0	0	
8									0	0	0	
9									0	0	0	
10									0	0	0	
11									0	0	0	
12									0	0	0	
13									0	0	5.6	
14									0	0	.12	
15									0	0	0	
16									0	0	0	
17									0	0	0	
18									0	0	0	
19									0	0	0	
20									0	21	22	
21									0	0	0	
22									0	0	0	
23									0	0	0	
24									0	0	0	
25									0	0	0	
26									0	0	0	
27									0	0	0	
28									0	0	0	
29									0	0	0	
30									0	1.3	0	
31		-----					-----		-----	0	0	-----
TOTAL	0	0	0	0	0	0	0	0	.67	22.31	27.72	0
MEAN	0	0	0	0	0	0	0	0	.022	.72	.89	0
MAX	0	0	0	0	0	0	0	0	.67	21	22	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	1.3	44	55	0
CAL YR 1973	TOTAL 32.45		MEAN .089	MAX 24	MIN 0	AC-FT 64						
WTR YR 1974	TOTAL 50.70		MEAN .14	MAX 22	MIN 0	AC-FT 101						

06286400 BIGHORN LAKE NEAR ST. XAVIER, MT.

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 on Bighorn River, 1.3 mi (2.1 km) upstream from Grapevine Creek, 15.5 mi (24.9 km) southeast of St. Xavier, and at mile 81.0 (130.3 km).

DRAINAGE AREA.--19,626 mi² (50,831 km²).

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 contents, 1,096,000 acre-ft (1.35 km³) July 9, elevation, 3,639.90 ft (1,109.442 m); minimum, 756,400 acre-ft (933 hm³) May 2, elevation, 3,600.61 ft (1,097.466 m).

Period of record: Maximum contents, 1,346,000 acre-ft (1.66 km³) July 6, 1967, elevation, 3,656.43 ft (1,114.480 m); minimum since first filling, 660,700 acre-ft (815 hm³) Mar. 11, 1970, elevation, 3,584.45 ft (1,092.540 m).

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 (1.67 km³) between elevation 3,296.50 ft (1,004.773 m), river outlet invert, and 3,657.00 ft (1,114.654 m), top of flood control. Elevation of spillway crest, 3,593.00 ft (1,095.146 m). Normal maximum operating level, 1,097,000 acre-ft (1.35 km³), elevation, 3,640.00 ft (1,109.472 m). Minimum operating level, 483,400 acre-ft (596 hm³), elevation, 3,547.00 ft (1,081.126 m). Dead storage, 18,970 acre-ft (23.4 hm³) below elevation 3,296.50 ft (1,004.773 m). 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 AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	3,637.99	1,072,000	-
Oct. 31	3,637.39	1,065,000	-7,000
Nov. 30	3,628.52	970,400	-94,600
Dec. 31	3,627.68	962,500	-7,900
CAL YR 1973	-	-	+9,700
Jan. 31	3,625.19	939,800	-22,700
Feb. 28	3,620.54	900,300	-39,500
Mar. 31	3,612.95	838,600	-61,700
Apr. 30	3,601.01	759,000	-79,600
May 31	3,605.60	789,800	+30,800
June 30	3,636.98	1,060,000	+270,200
July 31	3,634.93	1,037,000	-23,000
Aug. 31	3,636.80	1,058,000	+21,000
Sept. 30	3,636.64	1,056,000	-2,000
WTR YR 1974	-	-	-16,000

YELLOWSTONE RIVER BASIN

06287000 BIGHORN RIVER NEAR ST. XAVIER, MT.

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 (244 m) downstream from Yellowtail afterbay dam, 1,500 ft (460 m) downstream from Lime Kiln Creek, and 14 mi (23 km) southwest of St. Xavier.

DRAINAGE AREA.--19,667 mi² (50,938 km²). Area at site used prior to Apr. 16, 1963, 19,626 mi² (50,831 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 3,100 ft (945 m) above mean sea level (levels by Bureau of Reclamation). Prior to Apr. 16, 1963, and June 13, 1964, to Mar. 31, 1965, water-stage recorder at site 1.2 mi (1.9 km) upstream at different datum. Apr. 16, 1963, to June 12, 1964, water-stage recorder at present site at present datum. Apr. 1, 1965, to July 31, 1966, water-stage recorder at site 1,300 ft (400 m) downstream at present datum.

AVERAGE DISCHARGE.--40 years, 3,579 ft³/s (101.4 m³/s), 2,593,000 acre-ft/yr (3.20 km³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 12,000 ft³/s (340 m³/s) June 28; minimum daily, 689 ft³/s (19.5 m³/s) Oct. 19.

Period of record: Maximum discharge, 37,400 ft³/s (1,060 m³/s) June 16, 1935; minimum observed, 49 ft³/s (1.39 m³/s) Mar. 29, 1966, result of discharge measurement (dam closure); minimum daily, 112 ft³/s (3.17 m³/s) Apr. 2, 1967.

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 (1,726 km³) and complete regulation by Bighorn Lake (see Sta 06286400) since Nov. 3, 1965. Diversions for irrigation of about 375,000 acres (1,520 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,570	4,940	1,550	2,860	2,890	4,700	4,830	4,360	6,860	10,600	3,260	3,480
2	5,680	7,100	1,540	2,860	3,160	4,720	4,810	3,690	6,820	8,700	2,480	3,470
3	5,710	7,240	1,900	2,860	3,350	4,740	4,810	3,510	6,930	9,110	2,440	3,460
4	5,300	7,220	2,900	2,860	3,340	4,740	4,810	3,610	6,880	9,890	2,430	3,080
5	4,760	7,260	2,900	2,860	3,340	4,750	5,190	3,630	6,460	9,600	2,420	2,760
6	4,720	7,380	2,900	2,850	3,340	4,770	5,580	3,630	5,670	8,700	2,410	2,750
7	4,720	6,680	2,920	2,850	3,420	4,770	4,960	3,670	4,790	8,330	2,400	2,710
8	4,720	6,750	2,930	2,860	3,720	4,790	5,220	3,670	4,980	8,710	2,460	2,730
9	4,720	6,700	2,920	2,850	3,920	4,810	5,560	3,660	5,050	9,220	2,560	2,730
10	4,720	6,330	2,920	2,840	3,920	4,830	5,560	3,920	5,030	9,080	2,570	2,730
11	4,720	4,790	2,920	2,840	3,920	4,830	5,560	4,060	4,980	8,510	2,570	2,740
12	4,720	4,980	2,920	2,840	3,910	4,830	5,580	4,070	4,880	8,330	2,570	2,790
13	4,720	4,540	2,920	2,840	4,060	4,810	5,580	4,190	4,870	8,500	2,580	2,960
14	4,720	4,940	2,920	2,820	4,260	4,790	5,580	4,270	4,870	8,480	2,670	2,950
15	4,720	5,360	2,920	2,820	4,260	4,810	5,580	4,270	4,870	8,490	2,550	2,980
16	4,720	5,380	2,890	2,820	4,270	4,810	5,580	4,250	4,870	6,380	2,580	2,940
17	4,640	4,740	2,920	2,820	4,310	4,810	5,600	3,690	4,870	6,340	2,580	2,910
18	1,470	3,050	2,900	2,840	4,290	4,810	5,600	3,390	4,940	6,580	2,600	2,910
19	689	5,150	2,900	2,810	4,320	4,810	5,600	3,390	5,080	6,490	2,950	2,910
20	4,160	6,240	2,900	2,810	4,340	4,810	5,600	3,390	5,020	6,380	3,490	2,920
21	4,570	6,570	2,900	2,810	4,360	4,810	5,580	3,700	5,040	4,680	3,480	2,930
22	4,570	4,660	2,890	2,810	4,380	4,810	5,600	4,660	5,040	5,680	3,490	2,930
23	4,570	6,590	2,890	2,810	4,380	4,810	5,620	4,950	5,040	5,920	3,480	2,940
24	4,570	3,080	2,890	2,820	4,410	4,810	5,660	4,970	6,740	5,050	3,470	2,920
25	4,580	2,970	2,890	2,820	4,410	4,810	5,640	4,360	7,980	5,070	3,480	2,950
26	1,750	2,970	2,890	2,810	4,430	4,810	5,620	4,390	7,990	5,060	3,470	2,960
27	3,970	2,960	2,880	2,810	4,570	4,810	5,580	4,400	9,260	5,080	3,490	2,910
28	4,320	2,550	2,880	2,810	4,680	4,810	5,320	5,310	11,080	5,040	3,490	2,870
29	4,310	1,550	2,880	2,800	-----	4,810	5,400	6,490	11,880	5,050	3,470	2,880
30	4,310	1,540	2,880	2,800	-----	4,830	5,110	6,880	11,880	4,530	3,470	2,890
31	4,310	-----	2,860	2,810	-----	4,810	-----	6,790	-----	3,740	3,480	-----
TOTAL	135,729	152,210	86,220	87,720	111,960	148,670	162,320	133,220	190,260	221,180	90,840	88,090
MEAN	4,378	5,074	2,781	2,830	3,999	4,796	5,411	4,297	6,342	7,135	2,930	2,936
MAX	5,710	7,380	2,930	2,860	4,680	4,830	5,660	6,880	11,800	10,600	3,490	3,480
MIN	689	1,540	1,540	2,800	2,890	4,700	4,810	3,390	4,790	3,740	2,400	2,710
AC-FT	269,200	301,900	171,000	174,000	222,100	294,900	322,000	264,200	377,400	438,700	180,200	174,700

CAL YR 1973 TOTAL 1,396,389 MEAN 3,826 MAX 7,450 MIN 689 AC-FT 2,778,000
WTR YR 1974 TOTAL 1,608,419 MEAN 4,407 MAX 11,800 MIN 689 AC-FT 3,190,600

YELLOWSTONE RIVER BASIN

61

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

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 (6 m) downstream from county bridge, 0.5 mi (0.8 km) north of Wyoming-Montana State line, 1 mi (1.6 km) downstream from West Fork, and 13 mi (21 km) southwest of Wyola.

DRAINAGE AREA.--193 mi² (500 km²).

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 (1,360 m), from topographic map.

AVERAGE DISCHARGE.--35 years, 152 ft³/s (4.30 m³/s), 110,100 acre-ft/yr (136 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,490 ft³/s (42.2 m³/s) May 27, gage height, 4.05 ft (1.234 m); minimum daily, 55 ft³/s (1.56 m³/s) Jan. 1.

Period of record: Maximum discharge, 2,730 ft³/s (77.3 m³/s) June 3, 1944, gage height, 4.87 ft (1.484 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s); maximum gage height recorded, 5.93 ft (1.807 m) June 9, 1944 (log jam); minimum discharge, 21 ft³/s (0.59 m³/s) Dec. 27, 1954, result of freezeup.

REMARKS.--Records good. Diversions for irrigation of 163 acres (660,000 m²) above station.

REVISIONS.--WSP 1729: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	90	86	55	73	69	70	218	520	386	170	122
2	103	90	86	58	72	71	70	249	605	378	167	118
3	103	90	86	60	70	69	70	208	734	402	165	117
4	102	81	86	62	70	66	69	194	800	350	162	114
5	102	90	85	64	70	69	69	225	746	339	159	113
6	102	97	83	66	69	69	71	271	620	332	159	114
7	102	95	86	70	69	69	71	315	500	309	162	111
8	102	93	85	70	69	69	72	350	520	295	162	110
9	103	91	83	73	70	68	73	374	515	281	156	110
10	102	91	85	76	70	67	80	365	525	270	156	110
11	102	91	85	75	69	67	76	310	580	260	149	121
12	103	95	85	80	70	67	78	286	690	242	146	115
13	102	95	85	88	70	68	76	284	878	235	146	112
14	100	93	85	88	69	67	77	252	1,040	232	150	111
15	100	90	84	98	69	66	78	242	983	228	144	108
16	98	91	84	93	69	67	79	221	990	228	139	107
17	98	91	84	86	69	69	84	215	983	225	137	106
18	97	90	85	81	69	72	91	235	908	222	134	106
19	97	88	77	81	69	68	112	295	830	228	134	105
20	97	81	83	79	69	62	149	306	758	246	140	105
21	97	90	86	78	66	69	127	267	698	239	139	105
22	97	85	85	75	69	68	123	249	640	225	132	105
23	97	85	84	78	69	64	162	246	600	211	130	105
24	97	86	83	76	66	69	249	281	560	205	128	104
25	97	87	84	76	69	70	332	358	530	196	127	103
26	91	86	81	74	68	69	320	525	495	187	126	103
27	95	84	79	74	68	70	277	902	460	184	125	108
28	95	86	84	74	68	73	235	1,240	420	178	124	106
29	95	87	81	73	-----	70	196	983	414	175	124	105
30	91	86	79	73	-----	70	187	740	398	178	122	103
31	95	-----	67	73	-----	73	-----	570	-----	175	119	-----
TOTAL	3,065	2,675	2,581	2,327	1,937	2,124	3,823	11,776	20,034	7,841	4,433	3,282
MEAN	98.9	89.2	83.3	75.1	69.2	68.5	127	380	600	253	143	109
MAX	103	97	86	98	73	73	332	1,240	1,040	402	170	122
MIN	91	81	67	55	66	62	69	194	398	175	119	103
AC-FT	6,080	5,310	5,120	4,620	3,840	4,210	7,580	23,360	39,740	15,560	8,790	6,510

CAL YR 1973	TOTAL 68,177	MEAN 187	MAX 1,290	MIN 45	AC-FT 135,200
WTR YR 1974	TOTAL 65,898	MEAN 181	MAX 1,240	MIN 55	AC-FT 130,700

PEAK DISCHARGE (BASE, 510 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-27	2130	4.05	1,490	6-14	2145	3.91	1,360
6-3	2345	3.35	920				

YELLOWSTONE RIVER BASIN

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

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 mi (5.6 km) north of Wyola and 6 mi (9.7 km) downstream from Pass Creek.

DRAINAGE AREA.--428 mi² (1,109 km²).

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 (1,100 m), from topographic map.

AVERAGE DISCHARGE.--34 years, 208 ft³/s (5.89 m³/s), 150,700 acre-ft/yr (186 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft³/s (41.1 m³/s) May 29, gage height, 4.86 ft (1.481 m); minimum daily, 50 ft³/s (1.42 m³/s) Jan. 2.

Period of record: Maximum discharge, 3,630 ft³/s (103 m³/s) June 14, 1963, gage height, 7.43 ft (2.265 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s); minimum, 12 ft³/s (0.34 m³/s) Aug. 5, 7, 8, 1961, gage height, 0.89 ft (0.271 m).

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 8,300 acres (33.6 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	150	132	55	110	132	139	401	674	416	146	136
2	158	139	134	50	110	155	139	504	683	419	136	134
3	160	139	130	54	121	150	139	443	797	528	139	125
4	155	128	128	56	120	128	134	392	915	485	139	129
5	155	136	128	60	118	134	132	383	931	386	139	131
6	153	146	141	63	112	136	134	437	808	388	132	135
7	153	155	132	67	113	130	150	500	860	359	139	127
8	153	146	132	74	117	128	139	574	1,120	341	153	126
9	158	146	128	85	121	121	136	627	905	380	136	126
10	160	153	148	96	121	123	148	654	752	388	130	123
11	155	162	132	120	121	128	220	548	738	287	123	154
12	155	165	132	173	123	132	261	467	811	281	115	158
13	153	162	130	215	121	134	284	443	962	272	121	145
14	150	148	128	300	121	125	255	425	1,130	281	129	142
15	148	143	128	400	121	119	272	395	1,190	255	130	135
16	148	141	130	500	121	121	314	371	1,140	247	125	124
17	146	141	130	370	123	125	356	344	1,160	239	123	132
18	143	139	127	320	119	180	353	332	1,110	228	119	138
19	143	139	118	270	119	167	362	392	1,030	285	125	137
20	146	128	110	167	119	134	320	458	951	231	128	139
21	143	136	114	141	111	125	302	434	864	250	130	140
22	143	130	120	141	110	120	275	386	776	234	121	141
23	141	136	130	130	111	115	269	359	709	206	116	140
24	141	136	130	132	113	121	332	362	646	212	114	132
25	141	130	128	132	120	141	431	440	596	212	113	121
26	139	130	125	132	128	150	615	581	548	195	106	118
27	139	134	121	128	130	165	650	864	587	175	111	132
28	141	138	109	128	121	175	534	1,260	474	160	116	135
29	141	132	88	128	-----	160	458	1,320	449	155	111	128
30	136	134	72	125	-----	146	404	1,060	437	150	113	127
31	143	-----	61	114	-----	143	-----	815	-----	150	116	-----
TOTAL	4,595	4,234	3,796	4,926	3,315	4,263	8,657	16,971	24,654	8,495	3,894	4,010
MEAN	148	141	122	159	118	138	289	547	822	274	126	134
MAX	160	165	148	500	130	180	650	1,320	1,190	528	153	158
MIN	136	128	61	50	110	115	132	332	437	150	106	118
AC-FT	9,110	8,409	7,530	9,770	6,580	8,460	17,170	33,660	48,900	16,850	7,720	7,950
CAL YR 1973	TOTAL	103,716	MEAN	284	MAX	1,630	MIN	60	AC-FT	205,700		
WTR YR 1974	TOTAL	91,810	MEAN	252	MAX	1,320	MIN	50	AC-FT	182,100		

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-27	0700	3.47	698	6-8	0830	4.51	1,240
5-10	0815	3.40	678	6-15	0900	4.84	1,360
5-29	0945	4.86	1,450	7-3	0645	3.21	602

YELLOWSTONE RIVER BASIN

63

06298000 TONGUE RIVER NEAR DAYTON, WYO.

LOCATION.--Lat 44°50'58", long 107°18'14", in NE¼NE¼ sec.11, T.56 N., R.87 W., Sheridan County, on left bank 0.5 mi (0.8 km) upstream from Crystal Draw, 0.6 mi (1.0 km) downstream from intake of Highline ditch, and 2.5 mi (4.0 km) southwest of Dayton.

DRAINAGE AREA.--204 mi² (528 km²).

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 (1,237 m), from topographic map.

AVERAGE DISCHARGE.--45 years (1918-29, 1940-74), 187 ft³/s (5.296 m³/s), 135,500 acre-ft/yr (167 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) May 28, gage height, 5.00 ft (1.524 m); minimum daily, 36 ft³/s (1.02 m³/s) Mar. 20.

Period of record: Maximum discharge, 3,400 ft³/s (96.3 m³/s) June 3, 1944, gage height, 6.45 ft (1.966 m); minimum daily, 18 ft³/s (0.51 m³/s) Nov. 29, 1919.

REMARKS.--Records good. Small diversion above station for Dayton municipal supply. Figures of daily discharge do not include water diverted 0.6 mi (1.0 km) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	67	69	49	57	51	53	340	708	380	133	87
2	94	57	68	55	57	54	55	400	812	385	128	87
3	94	57	67	54	56	51	51	256	1,020	445	124	87
4	89	55	65	54	56	46	48	256	1,090	340	124	78
5	89	67	64	54	55	51	47	360	1,100	284	121	77
6	90	80	64	54	54	51	53	528	838	268	119	77
7	90	80	67	52	53	51	55	632	762	253	117	74
8	89	80	68	50	53	54	47	632	732	238	130	69
9	90	82	62	48	56	51	55	649	732	220	128	69
10	89	82	62	46	56	50	61	600	684	220	161	69
11	87	85	65	46	54	50	54	440	708	220	153	84
12	87	89	65	45	53	51	54	405	864	210	130	82
13	92	87	64	50	53	53	51	405	1,040	203	124	74
14	90	80	64	55	51	47	53	327	1,130	200	119	89
15	89	72	62	59	51	47	53	309	1,120	193	119	87
16	89	74	64	68	49	54	59	276	1,070	193	108	80
17	87	75	64	68	51	56	64	276	1,050	190	102	75
18	85	75	62	61	48	60	69	405	1,020	187	96	74
19	84	72	50	60	50	49	90	578	938	184	92	74
20	82	54	59	60	50	36	121	644	871	190	90	74
21	82	69	65	55	45	51	98	485	826	223	94	72
22	82	57	67	48	50	50	89	425	696	206	87	69
23	82	55	65	56	49	48	128	430	666	176	84	74
24	82	57	62	57	49	53	242	534	638	167	82	78
25	82	61	60	59	53	54	480	672	583	161	78	74
26	75	62	57	59	53	54	644	871	534	153	78	69
27	74	61	54	53	50	57	495	1,330	500	145	77	74
28	82	68	60	56	49	59	309	1,680	460	140	75	74
29	87	71	61	56	-----	51	249	1,400	430	143	78	77
30	69	69	59	51	-----	53	245	1,050	400	145	78	75
31	85	-----	51	51	-----	59	-----	786	-----	143	78	-----
TOTAL	2,668	2,100	1,936	1,689	1,461	1,602	4,172	18,381	24,022	6,805	3,307	2,303
MEAN	86.1	70.0	62.5	54.5	52.2	51.7	139	593	801	220	107	76.8
MAX	100	89	69	68	57	60	644	1,680	1,130	445	161	89
MIN	69	54	50	45	45	36	47	256	400	140	75	69
AC-FT	5,290	4,170	3,840	3,350	2,900	3,180	8,280	36,460	47,650	13,500	6,560	4,570
†	0	0	0	0	0	0	0	141	1,290	1,440	1,300	1,100

ADJUSTED FOR DIVERSION BY HIGHLINE DITCH

MEAN	86.1	70.0	62.5	54.5	52.2	51.7	139	595	822	243	128	95.3
AC-FT	5,290	4,170	3,840	3,350	2,900	3,180	8,280	36,600	48,930	14,940	7,860	5,670

UNADJUSTED

ADJUSTED

CAL YR 1973	TOTAL 73,530	MEAN 201	MAX 1,760	MIN 22	AC-FT 145,800	MEAN 208	AC-FT 150,400
WTR YR 1974	TOTAL 70,446	MEAN 193	MAX 1,680	MIN 36	AC-FT 139,700	MEAN 200	AC-FT 145,000

PEAK DISCHARGE (BASE, 980 FT³/S)

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

DATE	TIME	G.H.T	DISCHARGE
5-28	0030	5.00	1950
6-4	0100	4.31	1290
6-15	0300	4.44	1400

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 mi (0.2 km) downstream from South Fork, 0.2 mi (0.3 km) upstream from East Fork, and 4.5 mi (7.2 km) south of Dayton.

DRAINAGE AREA.--25.1 mi² (65.0 km²).

PERIOD OF RECORD.--January 1951 to December 1953, March 1955 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m), from topographic map.

AVERAGE DISCHARGE.--21 years, 13.0 ft³/s (0.368 m³/s), 9,420 acre-ft/yr (11.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 130 ft³/s (3.68 m³/s) Apr. 25, gage height, 2.48 ft (0.756 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Jan 12.

Period of record: Maximum discharge, 850 ft³/s (24.1 m³/s) June 9, 1964, gage height, 4.60 ft (1.402 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.80 ft³/s (0.023 m³/s) Sept. 4-7, 1960.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.9	1.8	2.3	2.1	1.6	1.8	42	89	20	4.8	2.9
2	2.9	2.4	2.0	2.6	2.0	1.9	1.9	41	86	20	4.5	2.6
3	2.9	2.4	1.8	2.0	2.0	1.7	1.8	35	86	21	4.2	2.4
4	2.9	2.3	2.0	1.8	2.0	1.5	1.5	36	86	18	4.3	2.1
5	2.9	2.4	2.0	2.0	1.9	1.6	1.5	43	88	15	4.1	2.1
6	2.9	2.4	2.0	2.0	1.8	1.6	1.6	49	84	14	3.8	2.1
7	2.9	2.4	2.0	2.0	1.8	1.5	1.6	56	83	13	4.0	2.0
8	2.9	2.4	2.0	1.8	1.6	1.5	1.5	60	84	12	4.5	2.0
9	2.9	2.6	2.0	1.6	1.8	1.6	1.7	67	82	11	4.5	1.9
10	3.1	3.4	2.0	1.4	1.8	1.6	2.4	69	80	11	7.8	1.9
11	3.1	3.7	2.0	1.2	1.8	1.6	2.2	65	79	11	6.5	2.6
12	3.1	4.5	2.1	1.1	1.8	1.7	2.2	63	79	9.7	5.4	2.4
13	3.1	5.0	2.1	1.8	1.8	1.8	1.9	63	75	9.3	4.8	2.3
14	3.1	5.0	2.0	2.4	1.8	1.6	1.7	60	73	8.7	4.8	2.6
15	3.1	4.0	2.0	3.0	1.8	1.5	1.7	58	73	8.3	4.2	2.6
16	3.1	3.4	2.0	2.7	1.8	1.5	2.1	56	71	8.1	3.4	2.3
17	3.1	3.1	2.0	2.5	1.8	2.1	2.6	53	67	8.1	3.1	2.0
18	3.1	3.4	2.1	2.0	1.7	2.8	3.4	56	66	7.6	3.0	1.9
19	3.1	3.4	2.0	1.9	1.7	2.0	6.3	58	63	7.3	2.9	2.0
20	3.1	2.4	2.1	1.9	1.6	1.5	17	60	61	7.2	2.9	2.0
21	2.9	2.6	2.1	2.1	1.6	1.9	12	58	59	7.6	2.9	1.9
22	2.9	2.4	2.1	2.3	1.6	1.8	10	58	56	7.2	2.6	1.7
23	2.9	2.3	2.0	2.1	1.5	1.6	17	60	52	6.6	2.4	1.6
24	2.9	2.1	2.0	2.0	1.3	1.9	41	65	48	6.6	2.3	1.6
25	2.9	2.1	2.0	2.1	1.6	1.7	69	69	44	6.0	2.3	1.5
26	3.1	2.1	2.0	2.1	1.5	1.6	58	78	41	5.6	2.1	1.5
27	2.9	2.0	2.0	2.0	1.5	1.8	48	92	36	5.0	2.1	2.0
28	2.9	2.0	2.0	2.0	1.5	2.3	38	93	30	5.1	2.1	1.7
29	2.9	2.0	1.8	2.0	-----	1.9	34	90	26	4.9	2.1	2.0
30	2.9	1.8	1.8	2.0	-----	1.8	36	92	23	4.8	2.1	1.8
31	2.9	-----	1.2	2.1	-----	2.2	-----	90	-----	4.9	2.1	-----
TOTAL	92.3	84.9	61.0	62.8	48.5	54.7	421.4	1,935	1,970	304.6	112.6	62.0
MEAN	2.98	2.83	1.97	2.03	1.73	1.76	14.0	62.4	65.7	9.83	3.63	2.07
MAX	3.1	5.0	2.1	3.0	2.1	2.8	69	93	89	21	7.8	2.9
MIN	2.9	1.8	1.2	1.1	1.3	1.5	1.5	35	23	4.8	2.1	1.5
AC-FT	183	168	121	125	96	108	836	3,840	3,910	604	223	123

CAL YR 1973 TOTAL 5,945.9 MEAN 16.3 MAX 162 MIN 1.2 AC-FT 11,790
WTR YR 1974 TOTAL 5,209.8 MEAN 14.3 MAX 93 MIN 1.1 AC-FT 10,330

PEAK DISCHARGE (BASE, 100 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
4-25	1630	2.48	130

YELLOWSTONE RIVER BASIN

65

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 mi (0.8 km) downstream from Red Canyon Creek.

DRAINAGE AREA.--37.8 mi² (97.9 km²).

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 (1,379 m), from topographic map. Prior to May 26, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years (1945-71), 29.3 ft³/s (0.830 m³/s), 21,230 acre-ft/yr (26.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 320 ft³/s (9.06 m³/s) May 28, gage height, about 2.9 ft (0.88 m); minimum daily during period of operation, 6.4 ft³/s (0.18 m³/s) Apr. 4, 5, 8.

Period of record: Maximum discharge, 1,130 ft³/s (32.0 m³/s) June 15, 1963, gage height, 4.60 ft (1.402 m), from rating curve extended above 500 ft³/s (14.2 m³/s); 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 (1.5 m) May 18, 1944.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							7.0	45	164	49	16	10
2							7.3	48	206	51	16	11
3							6.7	42	210	60	16	11
4							6.4	42	188	47	16	10
5							6.4	46	192	43	15	10
6							7.0	56	166	41	14	9.6
7							7.0	67	156	39	15	9.2
8							6.4	78	144	37	18	8.8
9							7.6	87	144	35	16	8.8
10							9.6	90	134	33	25	8.8
11							8.4	79	138	32	19	10
12							8.8	77	150	30	16	11
13							7.6	78	166	28	16	10
14							8.4	69	178	26	15	13
15							8.0	66	184	25	14	11
16							9.2	61	186	24	14	9.0
17							10	60	180	24	13	8.4
18							13	70	162	23	13	8.4
19							18	84	146	22	12	8.0
20							33	90	128	22	12	8.0
21							26	82	112	23	13	8.0
22							26	79	96	26	12	7.6
23							33	87	89	22	11	7.3
24							53	102	83	20	11	7.3
25							87	113	76	20	10	8.0
26							70	148	69	19	10	7.3
27							61	207	64	18	9.6	8.8
28							54	250	60	17	9.6	8.8
29							46	222	56	17	9.6	9.2
30							43	194	53	18	9.8	8.8
31							-----	170	-----	19	9.8	-----
TOTAL							694.8	2,989	4,080	910	426.4	275.1
MEAN							23.2	96.4	136	29.4	13.8	9.17
MAX							87	250	210	60	25	13
MIN							6.4	42	53	17	9.6	7.3
AC-FT							1,380	5,930	8,090	1,800	846	546

PEAK DISCHARGE (BASE, 180 FT³/S)

NOTE.--No gage-height record May 24 to June 3.

DATE	TIME	G.H.T.	DISCHARGE
5-28	unknown	a2.9	a320
6-14	2300	2.50	218

a About

YELLOWSTONE RIVER BASIN

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

LOCATION.--Lat 44°32'18", long 107°13'33", in SE¼SE¼NW¼ sec.28, T.53 N., R.86 W., Johnson County, Bighorn National Forest, on right bank 0.7 mi (1.1 km) upstream from Park Reservoir and 16 mi (26 km) southwest of Big Horn.

DRAINAGE AREA.--20.1 mi² (52.1 km²).

PERIOD OF RECORD.--October 1953 to current year (no winter records since 1973). Prior to October 1960, published as East Goose Creek near Big Horn.

GAGE.--Water-stage recorder. Altitude of gage is 8,320 ft (2,536 m), from topographic map. Prior to June 28, 1960, water-stage recorder at site 1.1 mi (1.8 km) downstream at different datum. June 28, 1960, to July 14, 1970, water-stage recorder at site 0.9 mi (1.4 km) downstream at different datums and July 15, 1970, to Oct. 7, 1970, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--20 years (1953-73), 32.6 ft³/s (0.923 m³/s), 23,620 acre-ft/yr (29.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 660 ft³/s (18.7 m³/s) June 15, gage height, 5.82 ft (1.774 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; minimum daily during period of operation, 7.5 ft³/s (0.21 m³/s) Sept. 26, 27, 30.

Period of record: Maximum discharge, 1,230 ft³/s (34.8 m³/s) June 15, 1963, gage height, 4.59 ft (1.399 m), site and datum then in use, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 1.0 ft³/s (0.03 m³/s) Dec. 11-14, 1963, Mar. 24, 25, Nov. 14, 15, 1964, Mar. 18, 1971.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									66	106	20	10
2									64	104	20	11
3									60	122	19	11
4									58	91	19	11
5									55	83	19	9.6
6									60	81	17	11
7									65	79	18	10
8									70	72	20	9.3
9									74	67	20	8.8
10									79	67	30	8.6
11									101	62	25	10
12									179	55	21	11
13									304	46	20	11
14									417	43	19	11
15									402	43	18	12
16									408	46	16	12
17									398	42	14	11
18									354	39	14	10
19									334	42	13	9.6
20									343	48	12	9.3
21									273	53	13	9.1
22									197	48	12	8.8
23									208	38	11	8.4
24									205	34	11	8.1
25									190	31	10	7.9
26									180	27	10	7.5
27									154	25	9.8	7.5
28									130	24	9.6	7.7
29					-----				128	26	9.8	7.7
30					-----				118	24	9.8	7.5
31		-----			-----		-----		-----	21	9.6	-----
TOTAL									5,674	1,689	489.6	287.4
MEAN									189	54.5	15.8	9.58
MAX									417	122	30	12
MIN									55	21	9.6	7.5
AC-FT									11,250	3,350	971	570

PEAK DISCHARGE (BASE, 180 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
6-15	0030	5.82	660

YELLOWSTONE RIVER BASIN

67

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 0.3 mi (0.5 km) downstream from Twin Lakes Branch and 16 mi (26 km) west of Big Horn.

DRAINAGE AREA.--24.4 mi² (63.2 km²).

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 (2,566 m), from topographic map.

AVERAGE DISCHARGE.--18 years (1953-71), 34.4 ft³/s (0.974 m³/s), 24,920 acre-ft/yr (30.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 562 ft³/s (15.9 m³/s) June 15, gage height, 4.38 ft (1.335 m); minimum daily during period of operation, 1.6 ft³/s (0.045 m³/s) Sept. 26.

Period of record: Maximum discharge, 1,030 ft³/s (29.2 m³/s) June 15, 1963, gage height, 5.37 ft (1.637 m), from rating curve extended above 410 ft³/s (11.6 m³/s) on basis of velocity-area study; minimum daily, 0.80 ft³/s (0.023 m³/s) Dec. 14, 26, 1963, Jan. 15, 16, Feb. 26, 1964.

REMARKS.--Records fair. Some regulation by Twin Lakes, capacity, 1,200 acre-ft (1.48 hm³) and Dome Lake, capacity, 1,800 acre-ft (2.22 hm³). No diversion above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4.9	7.2	189	100	40	28
2							4.7	7.6	186	110	40	28
3							4.5	6.6	153	120	40	36
4							4.4	7.2	120	110	40	34
5							4.4	9.5	247	100	40	29
6							4.4	10	216	90	40	26
7							4.4	10	167	80	39	24
8							4.2	11	136	83	40	23
9							4.2	13	121	78	40	22
10							4.4	13	114	71	41	22
11							4.9	13	118	65	40	24
12							4.5	14	172	60	38	24
13							4.9	12	274	43	40	22
14							4.9	11	448	40	39	23
15							4.7	11	480	46	35	22
16							4.7	10	434	46	34	28
17							4.7	10	470	40	34	40
18							4.7	13	449	38	33	39
19							5.1	16	399	40	32	37
20							5.4	16	371	46	33	33
21							5.4	19	339	59	34	24
22							5.2	68	240	58	34	16
23							6.4	76	229	49	34	11
24							7.3	132	188	47	33	9.8
25							8.0	121	128	40	32	7.6
26							7.9	116	175	40	30	1.6
27							7.2	120	181	45	30	1.7
28							6.2	230	150	46	30	2.7
29							6.0	467	120	44	30	2.9
30							6.2	332	90	41	29	2.9
31							-----	216	-----	40	29	-----
TOTAL							158.8	2,118.1	7,105	1,915	1,103	644.2
MEAN							5.29	68.3	237	61.8	35.6	21.5
MAX							8.0	467	480	120	41	40
MIN							4.2	6.6	90	38	29	1.6
AC-FT							315	4,200	14,090	3,800	2,190	1,280

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 mi (0.6 km) upstream from Cave Creek and 14 mi (23 km) southwest of Sheridan.

DRAINAGE AREA.--120 mi² (311 km²).

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 (1,375 m), from topographic map.

AVERAGE DISCHARGE.--42 years (1929-71), 79.6 ft³/s (2.254 m³/s), 57,670 acre-ft/yr (71.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,110 ft³/s (31.4 m³/s) June 17, gage height, 4.09 ft (1.247 m); minimum daily during period of operation, 16 ft³/s (0.45 m³/s) Apr. 4.

Period of record: Maximum discharge, 3,160 ft³/s (89.5 m³/s) June 15, 1963, gage height, 5.83 ft (1.777 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); minimum daily, 1.6 ft³/s (0.045 m³/s) Nov. 29, 1954.

REMARKS.--Records fair. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 20 acres (8.1 hm²) above station, and return flow from irrigated areas. PK ditch bypasses station.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							18	91	458	113	26	36
2							19	93	372	131	26	36
3							18	61	337	150	28	39
4							16	59	289	125	29	36
5							17	91	390	105	28	32
6							18	104	365	82	26	31
7							20	122	295	80	31	23
8							18	140	265	72	42	20
9							20	152	257	60	43	18
10							24	148	234	53	55	19
11							21	118	229	51	45	22
12							22	122	229	43	39	22
13							20	123	280	32	43	21
14							22	100	610	22	43	21
15							21	94	918	30	39	20
16							24	85	939	26	34	20
17							28	83	1,020	23	32	32
18							32	99	946	28	31	30
19							43	120	808	34	30	28
20							79	122	682	39	32	28
21							54	102	670	52	31	32
22							48	148	535	58	30	26
23							57	162	386	43	30	21
24							115	237	295	33	28	20
25							200	237	211	26	27	20
26							201	251	257	22	26	17
27							136	280	259	28	32	18
28							85	406	227	28	32	20
29							66	699	183	30	39	21
30							72	640	159	29	39	20
31							-----	530	-----	29	34	-----
TOTAL							1,545	5,819	13,105	1,677	1,050	749
MEAN							51.5	188	437	54.1	33.9	25.0
MAX							201	699	1,020	150	55	39
MIN							16	59	159	22	26	17
AC-FT							3,060	11,540	25,990	3,330	2,080	1,490

YELLOWSTONE RIVER BASIN

69

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 (30 m) upstream from headgate of Lower Peralta ditch and 6.5 mi (10.5 km) southwest of Big Horn.

DRAINAGE AREA.--55 mi² (142 km²), 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 (1,481 m), from topographic map.

AVERAGE DISCHARGE.--30 years (1941-71), 63.4 ft³/s (1.795 m³/s), 45,930 acre-ft/yr (56.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 528 ft³/s (15.0 m³/s) June 14, gage height, 4.57 ft (1.393 m); minimum daily during period of operation, 11 ft³/s (0.31 m³/s) Apr. 4, 5.

Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) June 15, 1963, gage height, 6.78 ft (2.067 m), from rating curve extended above 900 ft³/s (25.5 m³/s); minimum recorded, 2.2 ft³/s (0.062 m³/s) Dec. 4, 1949, gage height, 0.71 ft (0.216 m).

REMARKS.--Records good. Three small reservoirs above station, combined capacity, 860 acre-ft (1.06 hm³), 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.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							13	147	221	171	111	69
2							13	147	231	157	111	65
3							12	117	267	158	113	61
4							11	112	298	154	113	59
5							11	134	287	138	113	60
6							12	158	221	104	115	59
7							13	184	201	97	121	59
8							12	186	188	89	124	59
9							15	214	183	83	123	57
10							19	220	183	87	115	53
11							17	188	184	104	109	58
12							17	172	220	98	108	53
13							12	164	297	105	108	51
14							17	141	368	96	108	50
15							18	132	376	96	104	49
16							19	121	362	78	100	48
17							22	115	314	87	93	46
18							28	131	287	112	92	44
19							46	164	263	113	88	42
20							99	177	274	111	84	42
21							71	154	249	108	81	46
22							62	138	238	108	77	45
23							92	146	228	105	75	43
24							166	170	216	91	67	39
25							259	206	206	96	67	37
26							272	259	205	93	66	37
27							209	379	198	93	66	39
28							148	470	190	93	66	32
29							119	432	186	98	69	32
30							128	311	177	112	68	31
31								243		112	65	
TOTAL							1,952	6,032	7,318	3,347	2,920	1,465
MEAN							65.1	195	244	108	94.2	48.8
MAX							272	470	376	171	124	69
MIN							11	112	177	78	65	31
AC-FT							3,870	11,960	14,520	6,640	5,790	2,910

PEAK DISCHARGE (BASE, 420 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-27	2300	4.55	502
6-14	2200	4.57	528

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 (213 m) north of Sheridan city limits and 0.2 mi (0.3 km) downstream from Soldier Creek.

DRAINAGE AREA.--392 mi² (1,015 km²).

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 (1,128.175 m) above mean sea level. Prior to Aug. 3, 1951, nonrecording gage at site 600 ft (183 m) upstream at datum 2.18 ft (0.664 m) lower.

AVERAGE DISCHARGE.--33 years, 182 ft³/s (5.154 m³/s), 131,900 acre-ft/yr (163 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft³/s (37.7 m³/s) June 17, gage height, 4.34 ft (1.323 m); minimum daily, 29 ft³/s (0.82 m³/s) Aug. 4.

Period of record: Maximum discharge, 5,450 ft³/s (154 m³/s) June 16, 1963, gage height, 7.82 ft (2.384 m); maximum gage height, 9.11 ft (2.777 m) Feb. 28, 1972 (backwater from ice); minimum daily discharge, 4.0 ft³/s (0.11 m³/s) 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 (18.5 hm³). 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	136	109	72	100	93	86	318	665	156	33	94
2	172	118	109	80	105	108	82	402	555	150	31	111
3	151	119	102	82	105	102	84	297	540	178	31	98
4	149	112	100	86	105	80	80	264	462	164	29	99
5	144	103	93	86	100	91	80	279	530	144	33	92
6	144	139	87	86	92	94	80	334	580	122	33	90
7	144	129	116	84	96	86	82	358	458	105	39	87
8	136	115	102	84	100	85	79	410	442	103	78	82
9	140	109	80	82	100	80	79	405	390	84	74	81
10	195	114	97	80	100	88	99	490	334	62	91	78
11	192	132	103	80	96	106	144	385	309	61	91	106
12	185	144	98	78	92	96	140	342	362	56	86	114
13	168	150	95	86	92	90	172	334	500	49	81	105
14	172	133	90	94	90	82	147	285	780	43	86	96
15	167	122	95	110	92	76	147	261	1,150	41	96	89
16	170	121	92	120	88	85	138	238	1,220	35	90	90
17	164	120	99	120	92	85	140	218	1,280	50	83	87
18	159	120	93	110	84	108	142	202	1,190	46	73	89
19	154	120	69	110	86	98	168	282	1,070	41	73	88
20	152	91	74	110	80	72	249	294	855	48	66	95
21	150	113	110	100	72	79	270	285	828	56	85	96
22	147	109	100	90	76	86	210	252	717	82	79	101
23	142	105	94	110	74	72	220	249	513	66	70	101
24	129	108	84	110	74	91	312	306	422	57	70	91
25	124	112	80	110	86	93	466	350	282	46	66	86
26	121	112	74	110	90	93	670	374	279	43	64	82
27	114	98	60	100	90	94	545	505	284	43	61	98
28	114	113	80	105	84	96	374	755	265	45	50	106
29	115	115	78	105	-----	91	306	976	203	45	54	95
30	117	111	74	100	-----	84	273	979	183	41	61	91
31	121	-----	70	88	-----	86	-----	757	-----	38	69	-----
TOTAL	4,647	3,543	2,807	2,968	2,541	2,770	6,064	12,188	17,648	2,300	2,026	2,818
MEAN	150	118	90.5	95.7	90.8	89.4	202	393	588	74.2	65.4	93.9
MAX	195	150	116	120	105	108	670	979	1,280	178	96	114
MIN	114	91	60	72	72	72	79	202	183	35	29	78
AC-FT	9,220	7,030	5,570	5,890	5,040	5,490	12,030	24,170	35,000	4,560	4,020	5,590

CAL YR 1973 TOTAL 80,849 MEAN 222 MAX 1,940 MIN 46 AC-FT 160,400
WTR YR 1974 TOTAL 62,320 MEAN 171 MAX 1,280 MIN 29 AC-FT 123,600

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
6-17	1330	4.34	1,330

YELLOWSTONE RIVER BASIN

71

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 (183 m) upstream from county bridge, 0.9 mi (1.5 km) upstream from mouth, 2.8 mi (4.5 km) downstream from Coutant Creek, and 7.6 mi (12.2 km) northeast of Acme.

DRAINAGE AREA.--358 mi² (927 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,450 ft (1,052 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 197 ft³/s (5.58 m³/s) Feb. 16, gage height, 3.14 ft (0.957 m), from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of step-backwater computation; maximum gage height, 4.09 ft (1.247 m) Jan. 16 (backwater from ice); minimum daily discharge, 6.6 ft³/s (0.187 m³/s) July 23, Aug. 3.

Period of record: Maximum discharge, 673 ft³/s (19.1 m³/s) May 22, 1972, gage height, 5.59 ft (1.704 m), from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of step-backwater computation; maximum gage height, 5.62 ft (1.713 m) Feb. 16, 1971 (backwater from ice); minimum daily discharge, 6.6 ft³/s (0.187 m³/s) July 23, Aug. 3, 1974.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 13,600 acres (55.0 km²) above station, of which about 60 acres (243,000 m²) lies below station. Flow supplemented by 3 transbasin diversions from North Piney Creek and South Piney Creek via Prairie Dog Creek ditch, Piney and Cruse ditch and Mead-Coffeen ditch.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	54	43	12	28	79	47	48	33	12	6.8	23
2	66	53	39	11	30	76	45	47	32	12	6.8	27
3	65	49	38	10	30	78	42	48	30	13	6.6	30
4	66	47	37	9.5	40	70	41	50	23	15	7.3	27
5	67	37	35	9.0	34	60	39	43	25	15	10	28
6	63	48	34	8.5	30	60	38	39	21	17	9.1	25
7	64	43	35	8.0	25	55	38	38	22	15	9.4	22
8	62	48	37	8.0	20	50	38	35	30	16	18	20
9	60	47	30	8.0	25	59	43	33	39	15	25	19
10	62	48	27	8.0	50	55	45	32	31	13	25	19
11	66	44	30	8.0	90	51	48	30	28	15	25	19
12	69	47	37	9.0	130	48	56	25	23	14	29	24
13	64	51	35	10	154	48	70	20	21	10	25	35
14	58	53	32	11	169	49	83	17	18	8.8	26	42
15	57	48	28	13	174	45	78	17	20	9.7	31	42
16	56	45	30	50	168	41	85	18	18	7.6	32	42
17	54	43	32	100	138	43	85	25	18	7.0	32	43
18	53	42	30	90	152	43	85	20	18	7.3	35	42
19	58	41	27	75	107	40	81	16	19	6.8	36	37
20	58	34	25	60	101	35	74	16	21	6.8	38	36
21	57	32	27	40	97	33	68	18	19	7.0	39	38
22	58	40	28	25	80	32	66	26	18	7.3	39	44
23	58	40	27	25	70	30	64	22	17	6.6	40	41
24	58	40	26	25	55	29	67	22	18	6.8	34	39
25	59	40	24	30	50	40	53	18	15	7.0	32	38
26	58	40	21	25	70	44	50	16	14	9.1	30	34
27	54	38	19	25	105	47	48	13	15	8.2	28	27
28	52	37	17	28	93	51	47	12	15	9.4	23	25
29	51	45	16	30	-----	56	47	13	14	11	20	28
30	51	45	14	32	-----	53	47	22	14	7.0	19	28
31	52	-----	13	25	-----	50	-----	32	-----	6.8	18	-----
TOTAL	1,845	1,309	893	828.0	2,315	1,550	1,718	831	653	322.2	755.0	943
MEAN	59.5	43.6	28.8	26.7	82.7	50.0	57.3	26.8	21.0	10.4	24.4	31.4
MAX	69	54	43	100	174	79	85	50	39	17	40	44
MIN	51	32	13	8.0	20	29	38	12	14	6.6	6.6	19
AC-FT	3,660	2,600	1,770	1,640	4,590	3,070	3,410	1,650	1,300	639	1,500	1,870

CAL YR 1973 TOTAL 21,295.2 MEAN 58.3 MAX 407 MIN 7.0 AQ-FT 42,240
WTR YR 1974 TOTAL 13,962.2 MEAN 38.3 MAX 174 MIN 6.6 AQ-FT 27,690

NOTE.--Stage-discharge relation affected by ice Dec. 1 to Feb. 12.

YELLOWSTONE RIVER BASIN

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

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 mi (1.6 km) north of Wyoming-Montana State line, 1.5 mi (2.4 km) upstream from Badger Creek, and 1.4 mi (2.3 km) southeast of Decker.

DRAINAGE AREA.--1,477 mi² (3,825 km²).

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 (1,050 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 496 ft³/s (14.05 m³/s), 359,400 acre-ft/yr (443 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,900 ft³/s (82.1 m³/s) May 29, gage height, 6.77 ft (2.063 m); minimum, 114 ft³/s (3.23 m³/s) Aug. 6, 7, but may have been less during period of ice effect.

Period of record: Maximum discharge, 7,480 ft³/s (212 m³/s) June 15, 1967, gage height, 10.86 ft (3.310 m); maximum gage height, 10.94 ft (3.335 m) Feb. 6, 1963 (backwater from ice jam); minimum discharge, 3.0 ft³/s (0.11 m³/s) Aug. 23, 1961, gage height, 1.83 ft (0.558 m).

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 (18.5 hm³). Diversions for irrigation of about 64,300 acres (260 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	415	394	350	140	280	225	247	738	1,650	650	152	180
2	398	374	290	145	290	225	240	898	1,540	600	138	226
3	382	334	338	150	300	230	240	868	1,580	645	131	243
4	374	330	306	155	300	230	212	711	1,670	711	128	226
5	370	298	270	160	290	235	212	711	1,640	625	117	222
6	366	290	280	165	280	235	212	868	1,730	580	117	212
7	370	290	290	175	270	235	215	1,030	1,470	545	117	205
8	362	300	280	180	250	235	236	1,160	1,400	525	131	201
9	358	300	240	180	230	235	233	1,190	1,430	505	187	191
10	386	310	220	180	240	235	240	1,270	1,320	484	194	184
11	424	334	270	180	250	240	310	1,130	1,240	433	236	200
12	419	350	300	185	270	270	398	952	1,290	484	243	230
13	410	386	280	190	285	266	390	904	1,500	406	233	270
14	402	378	260	230	290	250	464	850	1,800	378	236	260
15	402	338	270	300	290	233	394	733	2,220	346	240	250
16	402	314	290	500	290	219	370	705	2,400	314	250	236
17	402	310	300	850	290	233	360	650	2,430	294	236	240
18	394	306	230	700	290	247	350	635	2,390	298	233	236
19	394	302	180	600	290	302	345	814	2,230	282	226	229
20	390	306	160	550	290	262	340	1,000	1,900	258	226	229
21	390	274	190	500	290	201	350	1,030	1,700	206	222	236
22	390	280	220	450	290	190	370	850	1,670	294	243	240
23	390	290	210	420	280	180	424	796	1,460	290	229	240
24	382	294	190	410	240	191	525	814	1,270	254	208	233
25	370	338	180	410	210	240	808	1,010	1,100	233	191	222
26	366	350	170	400	210	247	1,310	1,170	958	208	180	208
27	354	338	160	390	215	254	1,390	1,550	922	177	166	201
28	342	322	150	380	220	270	1,070	2,170	874	177	156	233
29	358	358	150	350	-----	290	844	2,660	778	183	142	236
30	362	346	150	320	-----	262	722	2,520	700	159	145	229
31	342	-----	145	300	-----	247	-----	1,970	-----	156	159	-----
TOTAL	11,866	9,726	7,319	10,245	7,520	7,414	13,821	34,357	46,502	11,680	5,812	6,751
MEAN	383	324	236	330	269	239	461	1,108	1,550	376	187	225
MAX	424	394	350	850	300	302	1,390	2,660	2,430	711	250	270
MIN	342	274	145	140	210	180	212	635	700	156	117	180
AC-FT	23,540	19,290	14,520	20,320	14,920	14,710	27,410	68,150	92,240	23,130	11,530	13,390
CAL YR 1973	TOTAL 207,586 MEAN 569 MAX 3,430 MIN 132 AC-FT 411,700											
WTR YR 1974	TOTAL 172,993 MEAN 474 MAX 2,660 MIN 117 AC-FT 343,100											

PEAK DISCHARGE (BASE, 2,000 CFS)

NOTE.--Stage-discharge relation affected by ice Dec. 5 to Mar. 11.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-29	2000	6.77	2,900	6-15	2100	6.45	2,580

YELLOWSTONE RIVER BASIN

73

06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WYO.

LOCATION.--Lat 43°34'40", long 107°08'16", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.26, T.42 N., R.86 W., Washakie County, on left bank 1,100 ft (335 m) downstream from Rock Creek and 13 mi (21 km) southwest of Barnum.

DRAINAGE AREA.--46 mi² (119 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,220 ft (2,201 m), from topographic map. Prior to Oct. 1, 1970, at site 900 ft (274 m) upstream at different datum.

AVERAGE DISCHARGE.--13 years, 33.4 ft³/s (0.946 m³/s), 24,200 acre-ft/yr (29.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 798 ft³/s (22.6 m³/s) Apr. 26, gage height, 4.39 ft (1.338 m); maximum gage height, 4.48 ft (1.366 m) Apr. 26 (backwater from debris); minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Jan. 11, 12.

Period of record: Maximum discharge, 7,110 ft³/s (201 m³/s) June 15, 1963, gage height, 12.6 ft (3.84 m), from floodmark, site and datum then in use, on basis of slope-area measurement of peak flow; minimum daily, 1.0 ft³/s (0.028 m³/s) Dec. 15, 16, 1964, Jan. 24-27, 1966.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.0	6.0	4.9	4.6	4.9	12	249	47	9.0	5.5	5.2
2	6.3	5.5	6.0	4.3	4.6	5.8	9.7	218	44	9.4	5.5	6.0
3	6.3	5.3	5.5	3.9	4.3	6.3	9.7	132	42	11	5.5	5.5
4	6.3	5.4	5.2	3.4	4.3	4.9	7.9	107	39	9.4	5.5	4.9
5	6.3	5.6	4.9	3.4	4.3	4.3	9.0	147	48	7.9	5.5	4.6
6	6.3	6.0	4.6	3.4	4.3	4.3	10	220	50	7.9	5.2	4.6
7	6.3	6.3	4.6	3.4	4.3	4.9	9.2	276	43	7.6	6.9	4.3
8	6.3	6.9	5.2	3.4	4.3	5.2	10	270	42	7.2	6.9	4.1
9	6.9	7.2	4.6	3.4	4.1	5.8	12	257	42	6.9	7.6	4.1
10	7.6	7.2	4.3	2.6	4.1	6.6	13	183	36	6.6	13	4.1
11	7.9	7.6	4.3	2.5	4.1	7.4	9.9	96	32	6.3	7.6	4.3
12	7.2	9.0	4.6	2.5	4.1	8.4	9.4	86	30	6.3	6.0	4.9
13	7.6	9.0	4.9	2.8	4.1	9.7	8.3	97	28	6.0	5.5	5.2
14	7.6	6.3	4.9	3.2	4.1	8.0	7.9	73	27	6.0	5.2	5.2
15	7.2	6.8	4.3	4.3	4.1	6.7	8.3	59	25	6.0	5.2	5.2
16	6.9	6.3	4.1	5.3	4.1	7.4	9.4	55	26	6.3	4.9	5.2
17	6.6	5.8	4.3	6.6	4.1	10	11	58	23	7.6	4.9	4.6
18	6.3	6.0	4.9	6.0	4.3	11	25	114	21	7.2	4.6	4.6
19	6.3	5.5	5.5	6.1	4.3	8.2	44	126	18	9.0	4.3	4.6
20	6.0	5.0	5.5	5.5	4.1	7.1	51	89	17	8.6	4.3	4.6
21	6.0	4.7	5.2	5.5	3.9	7.2	30	63	16	8.6	4.6	4.6
22	6.0	5.1	5.2	5.0	3.6	6.9	28	52	15	11	4.9	4.6
23	6.0	5.4	5.2	4.9	3.6	6.0	50	59	15	7.2	4.6	4.6
24	7.6	5.8	5.2	4.9	3.9	5.5	147	69	14	6.6	4.3	4.6
25	7.6	5.8	4.9	5.2	4.1	5.5	314	76	13	6.3	4.3	4.3
26	7.2	4.6	4.1	4.9	4.3	7.6	474	80	11	5.8	4.3	4.3
27	6.6	4.1	4.6	4.9	4.1	9.7	312	86	11	5.5	4.3	4.3
28	6.6	4.3	4.6	5.2	4.1	12	202	78	10	5.5	4.3	4.6
29	6.6	5.5	4.9	4.9	-----	13	163	68	9.7	5.5	4.3	4.6
30	6.6	5.8	4.9	4.6	-----	14	186	57	9.4	5.5	4.1	4.6
31	6.2	-----	4.9	4.6	-----	14	-----	50	-----	5.5	4.3	-----
TOTAL	207.5	179.8	151.9	135.7	116.2	238.3	2,192.7	3,650	804.1	225.2	167.9	140.9
MEAN	6.69	5.99	4.90	4.38	4.15	7.69	73.1	118	26.8	7.26	5.42	4.70
MAX	7.9	9.0	6.0	6.6	4.6	14	474	276	50	11	13	6.0
MIN	6.0	4.1	4.1	2.5	3.6	4.3	7.9	50	9.4	5.5	4.1	4.1
AC-FT	412	357	301	269	230	473	4,350	7,240	1,590	447	333	279

CAL YR 1973 TOTAL 13,509.8 MEAN 37.0 MAX 647 MIN 4.1 AC-FT 26,800
 WTR YR 1974 TOTAL 8,210.2 MEAN 22.5 MAX 474 MIN 2.5 AC-FT 16,280

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
4-26	1700	4.39	798
5- 1	1900	3.26	401
5- 7	1900	3.37	434

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 mi (0.8 km) downstream from Twin Creek, 0.7 mi (1.1 km) upstream from Dullknife Reservoir, 7.2 mi (11.6 km) southwest of Hazelton, and 19 mi (31 km) northwest of Mayoworth.

DRAINAGE AREA.--24.5 mi² (63.5 km²).

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 (2,493 m), from topographic map. Prior to Oct. 1, 1966, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--28 years, 14.2 ft³/s (0.402 m³/s), 10,290 acre-ft/yr (12.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) May 9, gage height, 3.16 ft (0.963 m); maximum gage height, 5.04 ft (1.536 m) Apr. 26 (backwater from ice); minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Jan. 10.

Period of record: Maximum discharge, 886 ft³/s (25.1 m³/s) June 15, 1953, gage height, 4.34 ft (1.323 m), site and datum then in use, from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.60 ft³/s (0.017 m³/s) 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, 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	4.5	3.0	1.2	1.7	2.2	3.8	50	40	13	6.7	6.4
2	4.6	4.5	3.0	1.2	1.7	2.2	3.5	60	40	14	8.3	7.2
3	4.9	4.0	3.0	1.2	1.7	2.2	3.2	50	42	16	6.9	7.4
4	4.6	3.6	3.0	1.3	1.7	2.2	3.0	40	45	13	6.7	5.9
5	4.6	3.5	2.8	1.4	1.7	2.4	3.0	31	48	12	8.3	5.1
6	4.6	4.0	2.8	1.4	1.7	2.5	3.0	61	42	12	8.3	5.6
7	4.6	3.8	2.8	1.4	1.7	2.5	3.0	89	44	11	7.2	4.9
8	4.6	3.5	2.8	1.2	1.7	2.5	3.0	97	46	11	9.9	4.6
9	4.6	3.2	2.7	1.1	1.7	2.5	3.2	97	40	9.9	18	4.4
10	4.4	3.2	2.7	1.0	1.7	2.5	3.5	57	34	9.9	24	4.4
11	4.2	3.2	2.7	1.1	1.7	2.5	3.8	27	32	9.6	12	4.6
12	4.0	3.0	2.7	1.2	1.7	2.5	4.0	24	33	9.0	8.3	5.4
13	4.0	3.0	2.7	1.4	1.7	2.5	4.0	24	32	8.7	7.7	5.1
14	4.5	3.0	2.7	1.5	1.7	2.5	4.0	21	30	8.0	8.7	5.9
15	5.0	3.0	2.7	1.7	1.7	2.5	4.0	19	28	8.3	6.9	5.1
16	5.4	3.0	2.7	1.8	1.6	2.5	4.0	18	27	11	6.1	4.6
17	4.9	3.0	2.7	1.8	1.6	2.5	4.2	20	25	12	5.9	4.6
18	4.6	3.0	2.7	1.8	1.6	2.8	4.5	37	24	17	5.6	4.4
19	4.4	3.0	2.5	1.7	1.6	3.0	5.0	74	22	18	5.4	4.4
20	4.4	3.0	2.3	1.7	1.6	2.8	6.0	64	20	20	5.6	4.4
21	4.4	3.0	2.1	1.7	1.6	2.7	8.0	31	19	15	5.9	4.4
22	4.2	2.8	2.0	1.7	1.6	2.7	10	27	19	15	5.4	4.4
23	4.2	2.8	2.0	1.7	1.6	2.8	12	32	18	9.6	5.1	4.2
24	4.2	2.8	2.0	1.7	1.6	2.9	15	45	19	8.3	5.1	4.2
25	4.0	2.8	2.0	1.7	1.6	3.0	30	48	17	7.4	4.9	4.0
26	4.2	2.8	2.0	1.7	1.8	3.2	60	50	16	7.2	4.9	3.8
27	4.5	2.8	2.0	1.7	2.0	3.4	90	62	15	6.9	4.9	4.0
28	4.5	3.0	1.8	1.7	2.2	3.6	60	74	14	6.7	4.9	4.2
29	4.5	3.0	1.7	1.7	-----	3.8	50	76	14	7.7	5.9	4.0
30	4.5	3.0	1.5	1.7	-----	4.0	45	60	13	7.7	5.6	3.8
31	4.5	-----	1.4	1.7	-----	4.0	-----	42	-----	6.9	5.4	-----
TOTAL	139.5	96.8	75.5	46.8	47.5	85.9	455.7	1,507	858	341.8	234.5	145.4
MEAN	4.50	3.23	2.44	1.51	1.70	2.77	15.2	48.6	28.6	11.0	7.56	4.85
MAX	5.4	4.5	3.0	1.8	2.2	4.0	90	97	48	20	24	7.4
MIN	4.0	2.8	1.4	1.0	1.6	2.2	3.0	18	13	6.7	4.9	3.8
AC-FT	277	192	150	93	94	170	904	2,990	1,700	678	465	288

CAL YR 1973 TOTAL 4,528.3 MEAN 12.4 MAX 170 MIN 1.3 AC-FT 8,980
WTR YR 1974 TOTAL 4,034.4 MEAN 11.1 MAX 97 MIN 1.0 AC-FT 8,000

PEAK DISCHARGE (BASE, 190 FT³/S).--No peaks above base.

75

LOCATION.--Lat 43°54'41", long 106°53'20", in NW¼NE¼SE¼ sec.36, T.46 N., R.84 W., Johnson County, on left bank 0.8 mi (1.3 km) downstream from Pass Creek, 1.2 mi (1.9 km) upstream from Hat Ranch, 7.2 mi (11.6 km) northwest of Mayoworth, and 13 mi (21 km) downstream from Dullknife Reservoir.

PERIOD OF RECORD.--October 1973 to September 1974.

EXTREMES.--Current year: Maximum discharge, 890 ft³/s (25.2 m³/s) July 31, gage height, 7.10 ft (2.164 m),
from rating curve extended above 210 ft³/s (5.95 m³/s) on basis of comparison with station 1.2 mi (1.9 km)
downstream; minimum daily, 18 ft³/s (0.51 m³/s) Dec. 20 to Jan. 10, Aug. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.
1	23	20	22	18	20	20	20	37	74	54	45	20
2	23	20	21	18	20	21	20	37	54	54	44	20
3	23	20	20	18	20	20	20	21	53	54	44	20
4	23	20	20	18	20	19	21	21	51	53	44	20
5	21	20	19	18	20	20	21	21	51	53	44	20
6	21	21	19	18	20	20	22	26	53	32	41	20
7	20	20	22	18	20	20	23	27	55	29	64	20
8	21	20	20	18	20	20	25	29	67	28	39	20
9	22	22	20	18	20	20	28	105	65	31	38	20
10	23	22	21	18	20	20	27	123	55	46	38	20
11	25	22	21	19	20	20	25	74	45	47	31	20
12	26	23	20	19	20	20	25	68	46	48	29	20
13	25	23	20	19	20	20	27	68	45	64	28	20
14	23	21	20	20	20	20	31	62	43	65	31	20
15	23	21	20	20	20	20	30	65	41	60	29	20
16	22	21	22	20	20	20	30	55	38	59	28	20
17	20	21	22	20	20	20	30	38	38	59	28	20
18	20	20	20	20	21	20	38	33	35	57	28	21
19	20	20	19	20	21	20	37	34	33	57	24	21
20	20	20	22	20	20	20	46	49	32	56	25	21
21	20	20	22	20	20	20	35	64	31	53	23	20
22	20	20	22	20	20	20	31	49	30	50	22	20
23	20	20	20	20	20	20	51	46	30	50	22	20
24	21	20	20	20	20	20	172	56	29	51	21	19
25	21	20	20	20	20	20	237	71	29	51	21	19
26	21	20	19	20	20	20	151	72	29	50	20	20
27	23	19	19	20	20	20	70	85	29	47	18	20
28	21	20	19	20	20	20	32	104	30	46	20	20
29	20	22	18	20	-----	21	24	109	47	45	20	20
30	20	22	18	20	-----	21	29	123	54	45	20	20
31	20	-----	18	20	-----	21	-----	96	-----	71	20	-----
TOTAL	671	620	625	597	562	623	1,378	1,869	1,312	1,565	949	601
MEAN	21.6	20.7	20.2	19.3	20.1	20.1	45.9	60.3	43.7	50.5	30.6	20.0
MAX	26	23	22	20	21	21	237	123	74	71	64	21
MIN	20	19	18	18	20	19	20	21	29	28	18	19
AC=FT	1,330	1,230	1,240	1,180	1,110	1,240	2,730	3,710	2,600	3,100	1,880	1,190
WTR YR 1974	TOTAL 11,372			MEAN 31.2	MAX 237	MIN 18	AC=FT 22,560					

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 mi (0.8 km) upstream from bridge on private road, 1.7 mi (2.7 km) upstream from bridge on Interstate Highway 90, and 31 mi (50 km) east of Buffalo.

DRAINAGE AREA.--155 mi² (401 km²), approximately.

PERIOD OF RECORD.--Annual maximum, water years 1958-71. October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,950 ft (1,204 m), from river-profile map. Oct. 1, 1958, to Sept. 30, 1971, crest-stage gage at site 0.5 mi (0.8 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 234 ft³/s (6.63 m³/s) Aug. 13, gage height, 4.03 ft (1.228 m); no flow for many days.

Period of record: Maximum discharge, 2,300 ft³/s (65.1 m³/s) May 26, 1962, gage height, 11.6 (3.54 m), site and datum then in use; no flow for many days.

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.03		0	0	.20	.05	.06	.04	.01	0	
2	0	.03		0	0	.15	.07	.07	.03	2.0	0	
3	0	.03		0	0	.05	.04	.06	.02	.04	0	
4	0	.03		0	0	.05	.01	.06	.02	.02	0	
5	0	.03		0	0	.10	.01	.04	.02	.03	0	
6	0	.04		0	0	.10	.01	.04	.03	.04	0	
7	0	.04		0	0	.10	.01	.06	.39	.03	0	
8	0	.04		0	0	.08	.01	.07	.20	.02	0	
9	0	.04		0	.05	.08	.01	.07	.02	.01	0	
10	.04	.04		0	.10	.08	.01	.08	.01	0	.38	
11	.02	.04		0	.10	.08	.06	.08	.01	0	0	
12	.02	.03		0	.08	.08	.06	.08	0	0	3.9	
13	.02	.03		0	.06	.08	.04	.08	.01	0	28	
14	.01	.03		.02	.04	.07	.02	.10	.01	0	2.4	
15	.01	.03		.05	.02	.07	.02	.10	.01	0	0	
16	.01	.03		.07	.02	.07	.02	.10	.01	0	0	
17	.01	.03		.05	.01	.08	.02	.12	.01	0	0	
18	.01	.03		.02	.01	.08	.01	.10	.01	0	0	
19	.01	.03		0	0	.07	.02	.14	.01	0	0	
20	.01	.02		0	0	.07	.04	20	.01	0	0	
21	.01	.02		0	0	.06	0	.06	.01	3.4	0	
22	.01	.02		0	0	.07	0	.02	.01	0	0	
23	.01	.01		0	0	.04	.03	.02	.01	0	0	
24	.03	.01		0	0	.04	.04	.01	.01	0	0	
25	.03	0		0	.05	.04	.04	.01	.01	0	0	
26	.03	0		0	.10	.04	.04	.01	.01	0	0	
27	.02	0		0	.10	.03	.06	.02	.01	0	0	
28	.02	0		0	.15	.04	.04	.02	.01	0	0	
29	.02	0		0	-----	.04	.04	.03	.01	0	0	
30	.02	0		0	-----	.04	.05	.04	0	0	0	
31	.02	-----		0	-----	.06	-----	.04	-----	0	0	-----
TOTAL	.39	.71	0	.21	.89	2.24	.90	21.79	.96	5.60	34.68	0
MEAN	.013	.024	0	.007	.032	.072	.030	.70	.032	.18	1.12	0
MAX	.04	.04	0	.07	.15	.20	.07	20	.39	3.4	28	0
MIN	0	0	0	0	0	.03	0	.01	0	0	0	0
AC-FT	.8	1.4	0	.4	1.8	4.4	1.8	43	1.9	11	69	0

CAL YR 1973 TOTAL 262.43 MEAN .72 MAX 73 MIN 0 AC-FT 521
WTR YR 1974 TOTAL 68.37 MEAN .19 MAX 28 MIN 0 AC-FT 136

PEAK DISCHARGE (BASE, 300 FT³/S).--No peaks above base.

YELLOWSTONE RIVER BASIN

77

06313950 NORTH FORK CRAZY WOMAN CREEK BELOW POLE CREEK, NEAR BUFFALO, WYO.

LOCATION.--Lat 44°11'11", long 106°51'12", in NW¼NE¼SW¼ sec.28, T.49 N., R.83 W., Johnson County, Bighorn National Forest, on right bank 8 ft (2 m) upstream from bridge, 0.7 mi (1.1 km) upstream from forest boundary, 3.4 mi (5.5 km) downstream from Pole Creek, and 13 mi (21 km) southwest of Buffalo.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,280 ft (1,914 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 272 ft³/s (7.70 m³/s) Apr. 25, gage height, 3.84 ft (1.170 m); minimum daily, 3.4 ft³/s (0.096 m³/s) Jan. 12.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	10	8.3	4.8	4.7	3.8	7.1	41	83	32	18	14
2	15	11	8.3	6.0	4.7	4.0	5.8	47	80	35	24	16
3	14	12	8.3	5.0	4.5	4.5	5.0	27	88	36	19	16
4	14	13	8.3	5.4	4.5	4.5	5.2	30	93	30	16	14
5	14	12	8.0	6.0	4.5	4.5	5.0	41	104	26	27	12
6	14	12	8.0	6.0	4.5	4.5	6.1	57	93	26	19	12
7	13	12	7.8	6.5	4.5	4.5	6.8	67	88	25	23	11
8	12	13	7.7	6.0	4.3	4.5	6.1	73	92	24	30	9.9
9	13	13	7.7	5.5	4.3	4.7	8.0	67	83	22	38	9.9
10	14	13	7.4	5.5	4.3	4.7	12	69	71	22	59	9.5
11	14	13	6.8	5.0	4.3	5.2	9.1	46	68	22	32	9.9
12	14	14	6.8	3.4	4.3	5.2	7.4	50	76	20	24	11
13	15	15	6.8	3.8	4.3	5.2	6.1	54	83	19	22	11
14	18	12	6.8	4.3	4.3	5.0	5.2	44	87	18	21	13
15	18	11	6.8	5.0	4.3	4.7	6.1	41	81	19	19	12
16	17	11	6.8	5.2	4.3	4.5	9.8	38	77	23	18	11
17	17	11	6.8	5.5	4.3	5.8	18	39	76	25	16	9.9
18	17	11	7.1	5.5	4.3	8.0	38	40	68	34	15	9.5
19	16	10	7.0	5.5	4.3	8.0	46	61	63	30	14	9.1
20	15	9.5	7.2	5.5	4.3	7.5	32	87	61	42	14	9.1
21	15	9.9	7.4	5.2	4.3	5.0	26	58	56	29	14	9.1
22	14	9.1	7.4	5.0	4.5	5.0	22	48	50	35	13	9.1
23	14	8.7	7.4	5.5	4.3	4.5	48	52	51	22	12	9.1
24	14	8.3	7.4	5.2	4.3	4.3	99	62	53	20	12	9.1
25	14	8.0	7.4	5.2	4.0	4.3	142	76	48	18	12	8.7
26	13	8.0	7.4	5.2	3.8	4.0	150	83	43	16	12	8.3
27	12	7.7	7.4	5.0	3.8	4.5	84	110	40	15	11	8.0
28	13	8.3	7.4	5.0	3.8	6.4	39	144	36	16	11	8.0
29	13	8.7	7.4	5.0	-----	6.1	29	154	35	19	14	8.3
30	12	8.3	7.4	5.0	-----	7.1	26	138	33	21	14	8.3
31	11	-----	6.0	4.7	-----	8.0	-----	92	-----	18	13	-----
TOTAL	444	323.5	228.7	161.4	120.6	162.5	909.8	2,036	2,060	759	606	315.8
MEAN	14.3	10.8	7.38	5.21	4.31	5.24	30.3	65.7	68.7	24.5	19.5	10.5
MAX	18	15	8.3	6.5	4.7	8.0	150	154	104	42	59	16
MIN	11	7.7	6.0	3.4	3.8	3.8	5.0	27	33	15	11	8.0
AC-FT	881	642	454	320	239	322	1,800	4,040	4,090	1,510	1,200	626
WTR YR 1974	TOTAL 8,127.3		MEAN 22.3		MAX 154		MIN 3.4		AC-FT 16,120			

NOTE.--No gage-height record Oct. 1 to Nov. 28.

YELLOWSTONE RIVER BASIN

06314000 NORTH FORK CRAZY WOMAN CREEK NEAR BUFFALO, WYO.

LOCATION.--Lat 44°11'16", long 106°49'48", in SW¼SW¼NE¼ sec.27, T.49 N., R.83 W., Johnson County, on left bank, 70 ft (21.5 m) upstream from bridge on county road, 2.1 mi (3.4 km) upstream from Spring Draw, and 13 mi (21 km) southwest of Buffalo.

DRAINAGE AREA.--44.9 mi² (116.3 km²).

PERIOD OF RECORD.--April 1942 to September 1949, October 1973 to September 1974. Prior to October 1944, monthly discharge only published in WSP 1309.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m), from topographic map. Apr. 1, 1942, to Sept. 23, 1943, nonrecording gage nearby at different datum. Sept. 24, 1943, to Sept. 30, 1949, water-stage recorder at datum 1.33 ft (0.405 m) lower.

AVERAGE DISCHARGE.--8 years (1942-49, 1973-74), 24.7 ft³/s (0.700 m³/s) 17,900 acre-ft/yr (22.1 km³/yr).

EXTREMES.--Current year: Maximum discharge, 254 ft³/s (7.19 m³/s) Apr. 25, gage height, 2.98 ft (0.908 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Jan. 12.

Period of record: Maximum discharge, 611 ft³/s (17.3 m³/s) June 6, 1949, gage height, 4.23 ft (1.289 m) from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of slope-area measurement of peak flow, at site 3.2 mi (5.1 km) downstream; minimum daily, 3.1 ft³/s (0.088 m³/s) Mar. 8, 29, 30, 1944.

REMARKS.--Records fair 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	9.0	7.5	5.0	5.1	4.4	7.5	42	70	29	16	12
2	15	10	7.9	6.0	5.1	4.4	6.4	50	69	31	22	13
3	14	11	7.9	5.0	5.1	4.4	5.9	30	71	32	17	14
4	14	12	7.9	5.5	5.1	4.4	5.4	30	71	29	16	13
5	14	11	7.9	6.0	5.1	4.4	5.6	38	76	25	25	12
6	14	11	7.9	6.0	5.1	4.4	5.6	56	73	24	18	11
7	14	12	7.5	6.5	5.1	4.6	5.9	60	70	24	20	11
8	13	13	7.5	6.0	5.1	4.6	5.9	65	71	22	28	10
9	14	13	7.5	5.5	5.1	4.4	6.4	60	69	20	30	10
10	15	13	7.5	5.5	5.1	4.4	9.5	64	60	19	47	9.8
11	15	13	7.5	5.0	5.1	4.4	9.5	42	57	19	29	9.8
12	15	14	7.2	4.0	5.1	4.9	9.2	45	64	18	21	10
13	15	16	6.9	4.3	5.1	4.9	8.2	52	68	16	20	10
14	19	13	6.7	4.7	5.1	4.9	7.9	43	69	16	19	12
15	19	10	6.7	5.0	5.1	4.9	6.7	41	68	16	18	12
16	18	10	6.4	5.2	5.1	4.9	7.5	38	66	20	16	11
17	16	10	6.2	5.5	4.9	4.9	17	40	64	22	14	11
18	14	9.8	6.4	5.5	4.6	6.7	34	39	60	26	14	10
19	13	9.8	6.7	5.5	4.6	6.7	45	56	56	24	14	9.8
20	13	8.2	7.0	5.5	4.6	6.4	34	74	54	38	13	9.5
21	13	8.5	7.0	5.0	4.6	5.1	28	58	51	25	13	9.5
22	12	8.0	7.0	4.9	4.6	5.1	22	45	45	30	13	9.5
23	12	7.5	7.0	5.1	4.6	4.9	43	47	45	21	12	9.5
24	12	7.0	7.0	5.1	4.6	4.9	93	56	46	18	12	9.5
25	12	6.5	7.0	5.1	4.6	4.9	136	65	43	16	12	9.5
26	12	6.5	7.0	5.1	4.4	4.6	137	70	38	16	11	8.8
27	11	6.4	7.0	5.1	4.4	4.6	82	89	36	14	11	8.8
28	12	6.9	7.0	5.1	4.4	5.4	42	120	32	14	11	8.8
29	12	7.2	7.0	5.1	-----	5.9	33	133	31	16	12	8.8
30	11	7.2	7.0	5.1	-----	6.2	28	114	30	18	12	8.8
31	11	-----	6.0	5.1	-----	7.9	-----	74	-----	16	12	-----
TOTAL	429	300.5	220.7	163.0	136.5	157.5	887.1	1,839	1,723	674	548	312.4
MEAN	13.8	10.0	7.12	5.26	4.88	5.08	29.6	59.3	57.4	21.7	17.7	10.4
MAX	19	16	7.9	6.5	5.1	7.9	137	133	76	38	47	14
MIN	11	6.4	6.0	4.0	4.4	4.4	5.4	30	30	14	11	8.8
AC-FT	851	596	438	323	271	312	1,760	3,650	3,420	1,340	1,090	620

WTR YR 1974 TOTAL 7,389.7 MEAN 20.2 MAX 137 MIN 4.0 AC-FT 14,660

PEAK DISCHARGE (BASE, 160 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
4-25	1900	2.98	254
5-29	2200	2.83	209

NOTE.--No gage-height record Oct. 1 to Nov. 13, Dec. 20 to Jan. 21.

YELLOWSTONE RIVER BASIN

79

06317000 POWDER RIVER AT ARVADA, WYO.

LOCATION.--Lat 44°38'45", long 106°08'00", in NE¼NW¼ sec.21, T.54 N., R.77 W., Sheridan County, on left bank 0.5 mi (0.8 km) upstream from bridge on county road, 0.5 mi (0.8 km) southwest of Arvada, and 0.8 mi (1.3 km) upstream from Wild Horse Creek.

DRAINAGE AREA.--6,050 mi² (15,670 km²), 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 (1,103.989 m) above mean sea level. Prior to Oct. 24, 1938, nonrecording gage at bridge 0.5 mi (0.8 km) downstream at datum 0.14 ft (0.043 m) lower.

AVERAGE DISCHARGE.--43 years (1930-33, 1934-74), 273 ft³/s (7.731 m³/s), 197,800 acre-ft/yr (244 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,140 ft³/s (231 m³/s) Apr. 22, gage height, about 8.5 ft (2.59 m), from floodmarks; no flow Aug. 2-8.

Period of record: Maximum discharge, about 100,000 ft³/s (2,830 m³/s) Sept. 29, 1923, gage height, 23.7 ft (7.22 m), from floodmarks, site and datum then in use, from rating curve extended above 20,000 ft³/s (566 m³/s); no flow at times most years.

REMARKS.--Records poor. Numerous small reservoirs and diversions for irrigation of about 29,000 acres (117 km²) 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 CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	305	500	200	190	400	200	720	412	26	1.0	6.8
2	146	311	500	200	190	500	215	641	342	23	0	6.8
3	146	305	450	180	190	600	215	680	281	28	0	7.8
4	124	317	400	200	190	750	210	780	253	27	0	8.7
5	121	150	300	200	190	780	210	596	200	23	0	9.7
6	121	80	200	190	170	398	220	504	158	19	0	8.4
7	118	150	200	170	160	270	226	412	158	19	0	8.4
8	121	250	250	140	180	236	200	398	180	21	0	9.7
9	146	300	300	130	200	215	220	465	205	23	3.0	12
10	220	350	350	120	220	180	200	398	146	19	6.0	12
11	231	400	350	110	250	190	215	614	142	15	9.0	11
12	210	420	350	160	250	190	242	700	180	12	59	9.7
13	231	420	300	200	250	185	281	536	185	8.7	513	11
14	264	412	300	300	250	190	311	398	134	6.6	134	11
15	275	412	300	400	250	162	311	281	103	5.6	55	11
16	275	398	300	440	250	130	323	248	82	4.5	57	10
17	253	363	300	500	250	166	299	220	78	8.8	46	12
18	236	349	280	400	230	226	287	190	69	12	32	16
19	220	377	220	300	210	226	299	185	65	76	22	19
20	231	220	200	280	190	150	311	253	63	14	19	20
21	200	250	230	250	180	130	450	231	88	6.6	16	20
22	236	220	250	250	180	120	4,100	185	54	8.3	14	20
23	242	170	250	250	170	150	2,050	185	48	23	12	19
24	270	200	240	270	160	200	1,260	185	73	23	12	17
25	299	200	240	300	160	253	1,000	162	65	12	9.4	16
26	305	250	240	260	170	215	927	142	54	6.6	8.1	16
27	270	300	240	230	240	248	1,190	134	130	6.0	7.4	19
28	258	350	240	230	350	264	1,230	134	88	5.0	8.1	22
29	287	400	240	230	-----	311	1,540	130	54	4.0	8.1	23
30	299	450	240	210	-----	236	1,120	185	36	3.0	7.4	23
31	287	-----	220	190	-----	210	-----	253	-----	2.0	6.8	-----
TOTAL	6,792	9,079	8,980	7,490	5,870	8,481	19,862	11,145	4,126	490.7	1,065.3	416.0
MEAN	219	303	290	242	210	274	662	360	138	15.8	34.4	13.9
MAX	305	450	500	500	350	780	4,100	780	412	76	513	23
MIN	118	80	200	110	160	120	200	130	36	2.0	0	6.8
AC-FT	13,470	18,010	17,810	14,860	11,640	16,820	39,400	22,110	8,180	973	2,110	825
CAL YR 1973	TOTAL 140,427.5	MEAN 385	MAX 3,520	MIN 8.1	AC-FT 278,500							
WTR YR 1974	TOTAL 83,797.0	MEAN 230	MAX 4,100	MIN 0	AC-FT 166,200							

PEAK DISCHARGE (BASE, 2,800 FT³/S)

NOTE.--No gage-height record Jan. 8 to Feb. 26.

DATE TIME G.H.T. DISCHARGE

4-22 unknown a8.5 8,140

a About

YELLOWSTONE RIVER BASIN

06318500 CLEAR CREEK NEAR BUFFALO, WYO.

LOCATION.--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 (152 m) upstream from abandoned Pacific Power & Light Company powerplant, 2.0 mi (3.2 km) downstream from Mosier Gulch, and 4.0 mi (6.4 km) west of Buffalo.

DRAINAGE AREA.--120 mi² (310 km²), 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 (1,580.336 m) above mean sea level. See WSP 1916 for history of changes prior to 1961.

AVERAGE DISCHARGE.--48 years (1897-99, 1917-27, 1938-74), 62.3 ft³/s (1.764 m³/s), 45,140 acre-ft/yr (55.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 580 ft³/s (16.4 m³/s) May 29, gage height, 3.76 ft (1.146 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Jan. 12.

Period of record: Maximum discharge, 3,420 ft³/s (96.9 m³/s) June 15, 1963, gage height, 6.19 ft (1.887 m), from rating curve extended above 900 ft³/s (25.5 m³/s) on basis of velocity-area study; no flow Feb. 14-16, 1939, Nov. 12, 13, 1940.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 330 acres (1.34 km²), of which about 320 acres (1.30 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	19	23	11	10	9.0	16	59	145	117	55	49
2	32	21	22	11	10	9.5	15	85	130	112	61	51
3	31	24	21	10	10	10	12	62	154	117	58	52
4	31	26	20	11	10	10	12	56	180	91	55	48
5	30	24	20	11	10	11	12	65	220	78	63	44
6	30	24	20	11	9.8	10	14	80	192	75	60	46
7	29	28	20	10	9.8	10	16	121	156	75	60	42
8	28	29	20	8.0	9.0	10	15	151	141	74	70	40
9	30	28	19	7.0	8.5	11	19	141	119	69	100	38
10	32	28	18	6.8	9.0	11	27	162	101	69	158	37
11	31	28	18	6.8	9.0	12	17	104	95	65	126	40
12	31	30	18	6.2	9.0	12	16	89	132	61	102	46
13	32	38	18	6.5	9.0	12	15	88	200	55	89	45
14	37	30	18	7.2	9.5	12	14	64	271	54	77	49
15	36	23	17	8.3	9.5	12	14	56	313	54	70	47
16	33	25	17	10	9.5	12	17	50	323	56	62	45
17	31	27	16	14	9.5	13	31	50	313	70	57	43
18	30	24	16	12	9.5	15	73	52	287	75	53	41
19	28	24	14	12	9.5	14	85	92	274	94	50	40
20	28	20	14	12	9.5	12	66	160	265	207	50	40
21	27	20	15	12	9.5	11	34	126	254	147	58	39
22	27	20	16	11	9.0	11	35	87	194	160	54	37
23	26	20	16	11	9.0	10	94	75	180	109	51	37
24	25	20	15	11	9.0	10	122	85	185	87	50	35
25	25	20	15	11	9.0	12	146	145	182	74	48	34
26	25	20	15	11	9.0	14	182	194	176	64	46	33
27	23	21	15	11	9.0	16	158	323	169	58	44	33
28	25	23	15	10	9.0	17	81	468	137	56	44	34
29	25	24	15	10	-----	17	61	478	130	60	49	33
30	23	24	15	10	-----	16	50	340	122	65	49	32
31	24	-----	13	10	-----	18	-----	194	-----	60	47	-----
TOTAL	898	732	534	309.8	262.1	379.5	1,469	4,302	5,740	2,608	2,016	1,230
MEAN	29.0	24.4	17.2	9.99	9.36	12.2	49.0	139	191	84.1	65.0	41.0
MAX	37	38	23	14	10	18	182	478	323	207	158	52
MIN	23	19	13	6.2	8.5	9.0	12	50	95	54	44	32
AC-FT	1,786	1,450	1,060	614	520	753	2,910	8,530	11,390	5,170	4,000	2,440
CAL YR 1973	TOTAL 19,648.70 MEAN 53.8 MAX 38 MIN .80 AC-FT 38,970											
WTR YR 1974	TOTAL 20,486.40 MEAN 56.1 MAX 478 MIN 6.2 AC-FT 40,620											

PEAK DISCHARGE (BASE, 380 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-29	2230	3.76	580

YELLOWSTONE RIVER BASIN

81

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 (91 m) downstream from confluence of North and South Forks and 11.5 mi (18.5 km) northwest of Buffalo.

DRAINAGE AREA.--60.0 mi² (155.4 km²).

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 (1,609 m), from topographic map. Prior to Jan. 8, 1944, nonrecording gages 600 ft (183 m) upstream on North and South Forks at different datums. Jan. 8, 1944, to Sept. 30, 1952, water-stage recorder at present site at datum 0.72 ft (0.219 m) lower.

AVERAGE DISCHARGE.--27 years (1943-44, 1945-71), 36.4 ft³/s (1.031 m³/s), 26,370 acre-ft/yr (32.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 288 ft³/s (8.16 m³/s) May 27, gage height, 5.41 ft (1.649 m); minimum daily during period of operation, 4.2 ft³/s (0.12 m³/s) Apr. 6.

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) June 15, 1963, gage height, 7.98 ft (2.432 m), from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 19, 1954.

Maximum stage known, about 8.05 ft (2.454 m), 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 (1.01 km²) above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.4	39	112	60	64	21
2							4.9	50	112	60	66	21
3							4.4	35	135	65	64	20
4							4.5	32	137	56	64	18
5							4.5	39	133	50	65	18
6							4.2	59	110	45	56	19
7							4.7	83	94	45	54	18
8							4.4	94	88	43	58	17
9							5.4	89	83	42	64	14
10							7.9	91	75	41	80	13
11							5.4	56	78	41	65	14
12							5.1	54	92	40	60	13
13							4.7	60	112	38	59	13
14							4.5	46	123	25	56	13
15							4.4	40	110	37	48	13
16							5.6	37	106	48	35	13
17							8.5	38	92	50	34	13
18							11	42	80	57	33	13
19							22	85	98	57	31	14
20							27	125	92	71	28	20
21							17	80	84	62	26	20
22							14	59	75	78	21	20
23							24	61	73	60	20	20
24							39	89	75	63	20	17
25							59	123	72	62	20	11
26							85	144	75	66	20	11
27							73	206	72	66	22	12
28							45	248	66	68	22	14
29					-----		34	212	64	70	21	15
30					-----		31	160	63	66	21	15
31	-----				-----		-----	117	-----	65	20	-----
TOTAL							569.6	2,693	2,781	1,697	1,317	473
MEAN							19.0	86.9	92.7	54.7	42.5	15.8
MAX							85	248	137	78	80	21
MIN							4.2	32	63	25	20	11
AC-FT							1,130	5,340	5,520	3,370	2,610	938

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 (91 m) downstream from Willow Park Dam, 1.4 mi (2.3 km) upstream from Kearny Creek, and 10 mi (16 km) southwest of Story.

DRAINAGE AREA.--33.6 mi² (87.0 km²).

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 (2,603 m), from topographic map. Prior to Oct. 1 1957, at site about 600 ft (183 m) upstream at different datum. Oct. 1, 1959, to Sept. 30, 1965, at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--22 years (1947-57, 1959-71), 42.4 ft³/s (1.201 m³/s) 30,720 acre-ft/yr (37.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, not determined; minimum daily during period of operation, 15 ft³/s (0.42 m³/s) Sept. 30.

Period of record: Maximum discharge, 1,620 ft³/s (45.9 m³/s) June 15, 1963, gage height, 5.68 ft (1.731 m), present datum, from rating curve extended above 360 ft³/s (10.2 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s (0.008 m³/s) 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 ft³/s (0.13 m³/s) 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 (4.17 hm³), and Willow Park Reservoir, capacity, 4,457 acre-ft (5.50 hm³). 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.

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

REVISIONS (WATER YEARS).--WSP 1309: 1949(M). WSP 1709: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									230	122	149	65
2									230	122	152	62
3									250	126	140	48
4									290	105	128	37
5									300	94	131	36
6									290	85	122	33
7									270	88	114	33
8									260	90	114	33
9									240	90	112	31
10									210	90	112	30
11									210	88	118	38
12									207	87	131	39
13									205	79	131	38
14									253	82	149	38
15									317	94	156	38
16									335	103	140	33
17									348	107	137	26
18									315	112	136	26
19									291	122	131	28
20									279	146	131	30
21									267	178	109	30
22									207	171	82	28
23									146	169	80	24
24									173	173	80	20
25									185	161	79	18
26									187	142	74	18
27									175	137	71	18
28									161	137	69	18
29									134	132	65	18
30									126	132	64	15
31		-----			-----		-----		-----	132	64	-----
TOTAL									7,091	3,696	3,471	949
MEAN									236	119	112	31.6
MAX									348	178	156	65
MIN									126	79	64	15
AC-FT									14,060	7,330	6,880	1,880

NOTE.--No gage-height record June 1-11.

YELLOWSTONE RIVER BASIN

83

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 mi (3.7 km) southwest of Story and 3.3 mi (5.3 km) upstream from confluence with North Piney Creek.

DRAINAGE AREA.--69.4 mi² (179.7 km²).

PERIOD OF RECORD.--June 1951 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 5,590 ft (1,704 m), from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 300 ft (91 m) upstream at different datum. Oct. 1, 1951, to July 9, 1970, at site 200 ft (61 m) downstream at datum 10.08 ft (3.072 m) lower.

AVERAGE DISCHARGE.--20 years (1951-71), 75.3 ft³/s (2.132 m³/s), 54,550 acre-ft/yr (67.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 776 ft³/s (22.0 m³/s) June 14, gage height, 3.56 ft (1.085 m); maximum gage height, 5.23 ft (1.594 m) Apr. 13 (backwater from ice or snow slide); minimum daily discharge during period of operation, 22 ft³/s (0.62 m³/s) Apr. 1-7.

Period of record: Maximum discharge, 2,090 ft³/s (59.2 m³/s) June 15, 1963, gage height, 4.37 ft (1.332 m), site and datum then in use, from rating curve extended above 1,050 ft³/s (29.7 m³/s); maximum gage height, 5.30 ft (1.615 m) June 15, 1963 (backwater from slide), site and datum then in use; minimum daily discharge, 0.40 ft³/s (0.01 m³/s) Nov. 14, 1964.

REMARKS.--Records poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft (4.17 hm³), Willow Park Reservoir, capacity, 4,457 acre-ft (5.50 hm³), and Kearny Lake, capacity, 1,860 acre-ft (2.29 hm³). Diversion above station into Rock Creek basin for irrigation.

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

REVISIONS.--WSP 1916: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							22	60	172	211	187	122
2							22	66	163	222	190	118
3							22	66	211	204	184	108
4							22	63	351	172	172	92
5							22	60	438	178	175	90
6							22	83	396	166	169	88
7							22	96	310	155	163	81
8							23	104	275	158	152	74
9							23	104	245	145	152	72
10							23	122	181	115	152	69
11							24	100	208	112	152	68
12							25	81	245	108	163	68
13							25	79	431	104	166	68
14							26	77	560	128	166	66
15							27	72	410	120	184	66
16							25	64	382	110	181	66
17							25	62	424	122	181	64
18							28	68	438	128	175	63
19							35	92	550	132	175	63
20							49	92	590	132	175	63
21							50	85	560	152	169	63
22							41	74	496	160	142	62
23							46	69	333	163	138	58
24							64	72	321	160	138	56
25							92	92	321	155	135	55
26							128	104	315	138	128	56
27							108	294	305	132	130	56
28							81	610	280	130	130	56
29							66	590	265	118	125	52
30							60	403	249	135	122	56
31							-----	241	-----	194	125	-----
TOTAL							1,248	4,245	10,425	4,559	4,896	2,139
MEAN							41.6	137	348	147	158	71.3
MAX							128	610	590	222	190	122
MIN							22	60	163	104	122	52
AC-FT							2,480	8,420	20,680	9,040	9,710	4,240

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 mi (3.4 km) west of Story and 3.2 mi (5.1 km) upstream from confluence with South Piney Creek.

DRAINAGE AREA.--36.8 mi² (95.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (1,612 m), from topographic map. Prior to Sept. 14, 1951, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--23 years, 38.1 ft³/s (1.079 m³/s), 27,600 acre-ft/yr (34.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 508 ft³/s (14.4 m³/s) May 28, gage height, 3.15 ft (0.960 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Sept. 26.

Period of record: Maximum discharge, 1,820 ft³/s (51.5 m³/s) June 15, 1963, gage height, 5.04 ft (1.536 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 3.0 ft³/s (0.08 m³/s) Mar. 12, 1956, Jan. 20, 21, 24, 25, Mar. 3, 1966.

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

REVISIONS.--WSP 1916: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	14	9.4	8.0	7.9	13	130	231	44	16	13
2	17	13	14	9.6	8.0	8.9	12	140	241	48	16	11
3	18	12	13	9.6	8.0	8.7	12	120	271	56	16	11
4	17	12	13	9.4	8.0	8.3	12	115	281	45	15	9.4
5	16	13	13	9.4	7.8	8.2	12	129	269	39	15	8.9
6	16	14	14	9.1	7.6	8.0	12	159	222	36	14	10
7	15	14	12	9.1	7.8	8.0	13	205	199	35	18	8.9
8	15	14	12	9.1	8.0	8.7	13	233	185	33	21	8.3
9	16	14	13	8.8	8.0	8.4	14	251	170	31	19	8.0
10	17	15	12	8.7	8.2	8.7	15	250	159	30	22	7.8
11	16	16	12	8.5	8.2	8.2	13	205	156	28	16	11
12	17	20	12	8.5	8.2	8.4	13	190	178	26	15	11
13	18	23	12	8.6	8.0	8.7	16	183	213	25	15	11
14	21	17	11	8.6	8.0	9.0	20	155	214	24	14	13
15	18	16	11	9.2	8.0	9.1	16	140	197	23	14	11
16	17	17	12	10	8.0	8.5	18	129	187	23	13	9.7
17	16	17	12	10	8.2	10	20	124	167	23	12	8.8
18	16	16	11	9.0	8.2	12	22	155	148	22	11	8.3
19	15	14	10	9.0	8.0	9.8	28	191	130	22	11	8.2
20	15	9.1	11	8.0	7.9	11	40	199	115	22	13	8.5
21	15	17	11	8.0	8.0	12	43	170	102	22	13	8.3
22	14	13	11	7.4	8.0	10	45	153	90	22	11	8.0
23	14	12	11	7.6	8.2	10	56	164	83	21	10	7.8
24	15	13	11	8.0	7.9	9.9	70	192	77	19	10	7.7
25	15	14	11	8.0	7.5	9.6	90	244	69	19	9.7	7.5
26	14	14	11	8.2	7.7	9.7	110	293	63	18	9.5	7.3
27	14	13	11	7.8	7.6	11	105	395	58	17	9.4	8.7
28	15	13	11	8.0	8.6	12	100	464	53	17	9.1	8.9
29	15	14	10	8.0	-----	11	110	398	50	17	9.8	9.2
30	14	14	10	7.8	-----	12	120	317	46	18	10	8.1
31	15	-----	9.9	7.4	-----	13	-----	251	-----	18	9.9	-----
TOTAL	493	437.1	361.9	267.8	223.6	298.7	1,184	6,445	4,624	843	417.4	278.3
MEAN	15.9	14.6	11.7	8.64	7.99	9.64	39.5	208	154	27.2	13.5	9.28
MAX	21	23	14	10	8.6	13	120	464	281	56	22	13
MIN	14	9.1	9.9	7.4	7.5	7.9	12	115	46	17	9.1	7.3
AC-FT	978	867	718	531	444	592	2,350	12,780	9,170	1,670	828	552

CAL YR 1973 TOTAL 19,449.5 MEAN 53.3 MAX 673 MIN 4.8 AC-FT 38,580

WTR YR 1974 TOTAL 15,873.8 MEAN 43.5 MAX 464 MIN 7.3 AC-FT 31,490

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-9	2015	2.65	310
5-28	1900	3.15	508
6-14	2230	2.58	287

LOCATION.--Lat 44°32'08", long 106°49'18", in NE¼NE¼SW¼ sec.26, T.53 N., R.83 W., Johnson County, on right bank at Kearny, 300 ft (91 m) northeast of Historical Monument and 2.0 mi (3.2 km) upstream from Little Piney Creek.

PERIOD OF RECORD.--September 1902 to June 1906, June to August 1910, May 1911 to July 1917, May 1919 to September 1923 (no winter records), October 1940 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 4,655.11 ft (1,418.878 m) above mean sea level. Sept. 6, 1902, to June 30, 1906, nonrecording gage at site 50 ft (15 m) upstream at different datum. May 14, 1911, to July 31, 1917, and May 1, 1919, to Sept. 30, 1923, nonrecording gage at site 50 ft (15 m) upstream at present datum.

EXTREMES.--Current year: Maximum discharge, 1,060 ft³/s (30.0 m³/s) May 28, gage height, 4.22 ft (1.286 m); minimum daily, 4.2 ft³/s (0.12 m³/s) July 20.

Period of record: Maximum discharge, 3,410 ft³/s (96.6 m³/s) June 15, 1963, gage height, 6.05 ft (1.844 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s); minimum daily, 2.0 ft³/s (0.06 m³/s) Oct. 10, 1922.

REMARKS.--Records fair except those for winter period, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft (4.17 hm³), Willow Park Reservoir, capacity, 4,457 acre-ft (55.0 hm³), and Kearny Lake, capacity, 1,860 acre-ft (2.29 hm³). Diversion above station from South Piney Creek into Rock Creek basin for irrigation. Diversions above station for irrigation of about 240 acres (97 hm²), of which about 90 acres (36 hm²) lies below station. Record includes flow in bypass channel (Spring Creek), 300 ft (91 m) left of main channel.

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

REVISIONS (WATER YEARS).--WSP 1176: 1944. WSP 1309: 1913(M). WSP 1509: 1906, 1920(M), 1941(M), 1942, 1943(M). WSP 1916: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	48	43	30	31	36	46	203	272	99	19	15
2	14	47	43	30	30	42	46	239	268	90	30	13
3	18	47	45	30	30	38	44	200	336	102	19	10
4	16	47	42	30	30	39	41	186	495	80	10	8.0
5	16	40	44	30	31	39	43	197	592	66	10	7.2
6	16	50	43	30	29	38	47	246	480	57	10	7.2
7	14	51	42	30	29	36	52	308	352	54	10	5.8
8	14	47	41	30	31	36	47	352	316	47	13	6.6
9	17	46	44	30	34	36	51	380	272	26	12	6.2
10	21	48	46	30	38	35	57	392	195	19	12	5.8
11	24	50	48	29	39	37	52	312	181	18	12	8.0
12	32	56	39	29	39	38	52	279	221	15	14	14
13	34	62	40	32	31	39	46	276	400	12	18	21
14	38	51	43	38	30	38	52	209	580	12	18	17
15	34	45	43	45	30	38	52	162	688	10	36	16
16	33	46	43	52	30	39	57	145	664	5.5	30	15
17	32	47	39	52	30	42	71	145	688	6.2	25	11
18	30	44	37	50	30	50	77	181	634	5.8	25	8.3
19	28	45	36	48	31	40	90	246	556	8.3	25	8.6
20	28	45	36	46	30	33	123	249	465	4.2	28	12
21	28	45	37	43	31	32	114	203	404	17	28	15
22	27	43	39	37	32	30	108	170	368	18	15	14
23	26	43	40	33	32	32	123	170	192	20	12	14
24	35	43	40	34	32	38	170	203	175	21	11	18
25	40	43	40	35	34	42	243	265	178	16	11	30
26	38	43	40	35	36	43	344	329	170	6.2	10	29
27	37	45	40	35	34	44	312	581	145	5.2	10	32
28	38	50	40	35	35	46	249	953	129	5.5	10	33
29	40	52	39	35	-----	44	206	855	106	5.0	12	33
30	36	45	38	32	-----	47	186	568	104	5.8	12	34
31	47	-----	35	32	-----	50	-----	356	-----	21	12	-----
TOTAL	866	1,414	1,265	1,107	899	1,217	3,201	9,560	10,626	877.7	519	467.7
MEAN	27.9	47.1	40.8	35.7	32.1	39.3	107	308	354	28.3	16.7	15.6
MAX	47	62	48	52	39	50	344	953	688	102	36	34
MIN	14	40	35	29	29	30	41	145	104	4.2	10	5.8
AC-FT	1,720	2,800	2,510	2,200	1,780	2,410	6,350	18,960	21,380	1,740	1,030	928
CAL YR 1973	TOTAL 42,616.0	MEAN 117	MAX 1,500	MIN 4.5	AC-FT 84,530							
WTR YR 1974	TOTAL 32,019.4	MEAN 87.7	MAX 953	MIN 4.2	AC-FT 63,510							

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 (58 m) upstream from bridge on U.S. Highways 14 and 16, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--267 mi² (692 km²).

PERIOD OF RECORD.--May 1917 to September 1923 (no winter record), January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,066.83 ft (1,239.570 m) above mean sea level. Prior to Sept. 30, 1923, nonrecording gage at approximately same site at different datum.

AVERAGE DISCHARGE.--24 years (1950-74), 85.2 ft³/s (2.413 m³/s), 61,730 acre-ft/yr (76.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 955 ft³/s (27.0 m³/s) May 29, gage height, 4.74 ft (1.445 m); minimum daily, 25 ft³/s (0.71 m³/s) Jan. 12.

Period of record: Maximum discharge, 3,570 ft³/s (101 m³/s) June 16, 1963, gage height, 7.33 ft (2.234 m); minimum daily, 0.60 ft³/s (0.017 m³/s) Oct. 12-26, 1955, Sept. 28, Oct. 1, 2, 1956.

Maximum stage known, 10.9 ft (3.32 m), present datum, June 1, 1929, from information by local resident. Stage may have been affected by backwater from bridge.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft (4.17 hm³), Willow Park Reservoir, capacity, 4,457 acre-ft (5.50 hm³), Kearny Lake, capacity, 1,860 acre-ft (2.29 hm³), and Lake De Smet, capacity, 32,250 acre-ft (39.8 hm³). Diversion above station from South Piney Creek into Rock Creek basin for irrigation. Diversions for irrigation of about 9,800 acres (39.7 km²) above station.

REVISIONS (WATER YEARS).--WSP 1176: Drainage area. WSP 1439: 1952.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	50	40	28	40	55	62	232	246	92	146	176
2	40	40	38	28	40	60	59	274	214	90	157	179
3	41	35	38	28	40	55	62	246	249	118	157	174
4	41	30	35	28	40	50	61	221	352	108	150	172
5	38	28	35	28	40	50	59	224	466	97	148	169
6	38	35	35	28	38	50	61	263	450	118	143	164
7	37	31	35	28	35	48	69	320	301	116	143	162
8	35	36	35	28	38	50	69	398	263	112	146	162
9	40	37	35	28	40	50	67	408	230	104	146	157
10	53	37	35	28	45	50	69	466	169	95	146	155
11	50	38	35	26	45	50	77	376	132	99	152	162
12	55	40	35	25	45	50	77	331	137	99	157	162
13	59	42	35	30	45	54	77	334	260	101	167	191
14	61	40	35	35	45	50	74	283	412	106	172	184
15	64	38	35	40	45	50	72	208	566	110	184	181
16	43	37	35	45	45	52	72	191	554	101	186	181
17	45	46	35	45	45	52	79	181	590	106	181	174
18	43	48	35	42	45	52	90	179	574	132	176	164
19	40	42	32	42	45	44	106	269	498	130	174	157
20	55	32	32	42	45	38	139	289	429	130	181	162
21	49	35	35	40	45	36	148	255	334	137	186	169
22	48	35	35	40	45	36	128	206	362	150	174	169
23	48	35	35	40	45	34	128	196	216	155	169	174
24	52	35	35	40	45	38	174	208	155	157	167	169
25	61	35	32	40	48	50	241	255	157	148	157	176
26	59	35	30	40	50	61	356	295	152	143	160	181
27	53	35	30	40	54	64	373	454	128	137	167	191
28	52	38	30	40	50	69	307	840	120	137	164	193
29	53	40	30	40	-----	66	255	860	108	141	169	193
30	53	40	30	40	-----	66	224	618	97	146	169	191
31	55	-----	30	40	-----	62	-----	362	-----	150	172	-----
TOTAL	1,532	1,125	1,057	1,092	1,228	1,592	3,835	10,242	8,921	3,765	5,066	5,194
MEAN	48.5	37.5	34.1	35.2	43.9	51.4	128	330	297	121	163	173
MAX	64	50	40	45	54	69	373	860	590	157	186	193
MIN	35	28	30	25	35	34	59	179	97	90	143	155
AC-FT	2,980	2,230	2,100	2,170	2,440	3,160	7,610	20,320	17,690	7,470	10,050	10,300
CAL YR 1973	TOTAL 43,897.70 MEAN 120 MAX 64 MIN .10 AC-FT 87,070											
WTR YR 1974	TOTAL 44,619.00 MEAN 122 MAX 860 MIN 25 AC-FT 88,500											

PEAK DISCHARGE (BASE, 750 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0600	4.74	955

YELLOWSTONE RIVER BASIN

87

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 (183 m) downstream from Cabin Creek, 1.8 mi (2.9 km) upstream from mouth, and 16 mi (26 km) north of Arvada.

DRAINAGE AREA.--1,110 mi² (2,875 km²), 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 (1,068.784 m) 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 mi (0.3 km) upstream at different datum. Sept. 13, 1939, to Jan. 14, 1951, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years (1939-74), 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (161 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) May 30, gage height, 4.59 ft (1.399 m); minimum daily, 30 ft³/s (0.85 m³/s) July 18.

Period of record: Maximum discharge, 9,600 ft³/s (272 m³/s) Aug. 5, 1954, gage height, 10.45 ft (3.185 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement at gage height 10.17 ft (3.100 m); 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 (4.17 hm³), Willow Park Reservoir, capacity, 4,457 acre-ft (5.50 hm³), Kearny Lake, capacity, 1,860 acre-ft (2.29 hm³) and Lake De Smet, capacity, 32,250 acre-ft (39.8 hm³). Diversions for irrigation of about 35,000 acres (142 km²) above station. Diversion to Kendrick Canal about 4.5 mi (7.2 km) upstream. 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	112	140	110	110	110	127	319	477	98	63	168
2	103	129	145	100	110	110	129	309	312	104	64	178
3	101	127	130	100	110	120	121	357	239	98	66	190
4	99	110	120	110	110	110	123	332	242	98	74	193
5	102	96	110	110	110	100	119	293	339	108	72	193
6	99	75	100	110	110	100	114	284	453	80	79	175
7	98	98	110	110	110	110	121	322	469	91	66	175
8	97	132	120	110	100	110	129	404	346	91	64	170
9	99	158	130	100	100	110	134	501	278	82	87	165
10	116	148	120	90	100	120	127	518	230	64	95	160
11	125	132	115	85	110	120	148	569	163	49	119	160
12	125	136	130	80	120	130	178	465	116	46	196	180
13	123	132	130	82	115	130	170	382	87	37	193	196
14	125	141	125	90	110	130	160	360	201	36	183	242
15	125	141	125	100	110	120	150	300	469	36	173	239
16	132	132	125	120	110	120	143	219	711	39	185	233
17	121	121	120	140	110	110	134	188	731	34	185	228
18	116	119	125	160	110	120	139	175	764	30	183	217
19	108	127	130	140	110	130	163	165	701	44	183	209
20	95	100	110	132	110	120	262	242	600	59	185	203
21	100	80	110	130	110	100	360	262	514	64	190	198
22	100	100	115	130	105	96	290	305	461	143	198	209
23	100	94	140	120	100	95	230	225	419	185	188	214
24	106	100	135	120	100	80	222	188	284	219	163	206
25	104	105	130	120	100	120	322	173	248	193	158	201
26	108	114	125	120	100	127	423	195	222	168	148	190
27	110	110	120	120	105	134	600	230	193	158	146	209
28	106	120	120	120	110	127	618	514	163	158	148	233
29	102	130	130	110	-----	136	473	1,130	136	121	143	245
30	104	140	130	110	-----	139	382	1,190	116	72	141	248
31	104	-----	120	110	-----	132	-----	888	-----	64	141	-----
TOTAL	3,355	3,559	3,835	3,489	3,015	3,616	6,811	12,005	10,684	2,869	4,279	6,027
MEAN	108	119	124	113	108	117	227	387	356	92.5	138	201
MAX	132	158	145	160	120	139	618	1,190	764	219	198	248
MIN	95	75	100	80	100	80	114	165	87	30	63	160
AC-FT	6,650	7,060	7,610	6,920	5,980	7,170	13,510	23,810	21,190	5,690	8,490	11,950
CAL YR 1973	TOTAL 74,352.5		MEAN 204	MAX 1,790	MIN 4.9	AC-FT 147,500						
WTR YR 1974	TOTAL 63,545.0		MEAN 174	MAX 1,190	MIN 30	AC-FT 126,000						

YELLOWSTONE RIVER BASIN

06324970 LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON, WYO.

LOCATION.--Lat 44°55'45", long 105°21'06", in NW¼SW¼ sec.13, T.57 N., R.71 W., Campbell County, on left bank 3.1 mi (5.0 km) upstream from Dry Creek, 5.0 mi (8.0 km) south of the Wyoming-Montana State line, and 20 mi (32 km) north of Weston.

DRAINAGE AREA.--1,250 mi² (3,240 km²), approximately.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,410 ft (1,039 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 17, gage height, 8.05 ft (2.454 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) July 15-18, Sept. 4-25.

Period of record: Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 17, 1974, gage height, 8.05 ft (2.454 m); no flow July 18, Aug. 15-19, 1973.

REMARKS.--Records fair above 5.0 ft³/s (0.14 m³/s) and poor below. Diversion above station for irrigation of about 80 acres (32 hm²) below.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	11	4.0	2.0	17	15	6.0	7.0	12	.60	.18	.03
2	.47	7.5	4.0	1.0	16	14	5.4	6.0	6.5	2.6	.11	.02
3	.96	4.0	4.0	1.0	14	48	5.6	7.0	6.0	4.5	.06	.02
4	1.1	2.0	2.5	1.0	13	66	5.6	5.2	4.6	5.8	.04	.01
5	1.2	1.0	2.5	1.0	13	48	5.5	6.0	4.2	2.4	.03	.01
6	1.4	1.0	2.5	1.5	11	26	5.4	7.2	4.1	2.0	.03	.01
7	1.5	1.0	2.5	1.5	10	24	5.4	6.2	4.1	.96	.04	.01
8	2.0	1.0	2.5	1.5	10	18	5.4	6.6	32	.74	.06	.01
9	2.2	1.0	2.5	2.0	11	15	4.9	6.7	43	.54	.04	.01
10	2.5	1.0	2.5	2.0	12	13	5.2	6.1	27	.32	1.9	.01
11	2.8	1.0	2.5	2.0	13	12	7.2	6.0	27	.18	3.9	.01
12	3.2	1.0	4.0	3.0	13	11	7.0	5.2	15	.08	3.2	.01
13	3.5	1.0	4.0	3.0	18	9.9	7.0	5.2	12	.04	2.1	.01
14	45	1.1	4.0	3.0	23	9.7	7.2	4.9	7.5	.02	.81	.01
15	52	1.1	4.0	5.0	20	7.0	16	4.9	5.5	.01	.32	.01
16	27	1.1	4.0	3.0	28	6.4	14	4.8	4.0	.01	.06	.01
17	8.0	1.1	4.0	7.35	34	6.4	10	5.0	3.4	.01	.02	.01
18	6.6	1.5	3.0	6.74	29	7.2	8.0	5.2	3.1	.01	.14	.01
19	6.0	1.5	3.0	3.06	28	7.0	6.7	5.2	3.2	6.5	.42	.01
20	18	1.5	3.0	1.0	25	7.4	8.2	6.1	2.5	63	.11	.01
21	19	1.5	3.0	1.25	17	7.2	79	6.4	2.6	42	.06	.01
22	18	2.0	3.0	.60	16	6.9	137	6.7	2.6	32	.03	.01
23	24	2.0	2.0	72	17	6.6	51	5.4	2.4	11	.02	.01
24	26	2.5	3.0	64	12	6.4	57	4.8	2.2	4.4	.02	.01
25	96	2.5	2.0	62	13	7.4	42	3.7	2.8	2.4	.02	.01
26	155	2.5	3.0	49	14	6.6	28	1.6	1.7	2.5	.02	.02
27	79	2.5	3.0	32	12	6.1	18	1.1	1.4	1.5	.02	.02
28	58	3.0	3.0	20	11	7.7	13	1.3	1.0	1.1	.02	.02
29	41	5.0	3.0	25	-----	6.7	13	1.2	.88	.96	.02	.02
30	31	5.0	3.0	21	-----	7.0	9.0	1.5	.81	.67	.02	.02
31	16	-----	3.0	15	-----	7.4	-----	15	-----	.37	.02	-----
TOTAL	748.15	70.9	106.0	2,740.5	480	458.0	622.9	168.1	245.49	189.22	13.84	.39
MEAN	24.1	2.36	3.42	88.0	17.1	14.5	20.8	5.42	8.18	6.10	.45	.013
MAX	155	11	4.0	735	34	66	137	15	43	63	3.9	.03
MIN	.42	1.0	2.0	1.0	10	6.1	4.9	1.1	.81	.01	.02	.01
AC-FT	1,480	141	210	5,480	952	908	1,240	333	487	375	27	.8

CAL YR 1973 TOTAL 2,851.62 MEAN 7.81 MAX 155 MIN 0 AC-FT 5,660
WTP YR 1974 TOTAL 5,863.49 MEAN 16.1 MAX 735 MIN .01 AC-FT 11,630

YELLOWSTONE RIVER BASIN

89

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 mi (4.5 km) upstream from mouth of Bull Lake Creek, and 9.8 mi (15.8 km) 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, 151,700 acre-ft (187 hm³) July 9, elevation, 5,804.75 ft (1,769.288 m); minimum daily, 102,100 acre-ft (126 hm³) May 26, elevation, 5,787.92 ft (1,764.158 m). Extremes for period of record: Maximum daily contents, 154,200 acre-ft (190 hm³) Aug. 10, 1965, elevation, 5,805.70 ft (1,769.577 m); minimum daily (since appreciable storage was attained), 5,540 acre-ft (6.83 hm³) Mar. 15, 1950, elevation, 5,742.56 ft (1,750.332 m).

Reservoir is formed by rockfill dam completed by Bureau of Reclamation July 22, 1938. Capacity, 152,500 acre-ft (188 hm³) below elevation 5,805.00 ft (1,769.364 m), top of spillway gates. Dead storage, 722 acre-ft (0.890 hm³). 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 mi (21 km) 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, 805,200 acre-ft (993 hm³) July 3, elevation, 4,725.16 ft (1,440.229 m); minimum daily, 527,500 acre-ft (650 hm³) May 26, elevation, 4,708.83 ft (1,435.251 m). Extremes for period of record: Maximum daily contents, 922,400 acre-ft (1,140 hm³) July 6, 7, 1967, elevation, 4,730.83 ft (1,441.957 m); minimum daily (since normal use of water started), 251,800 acre-ft (310 hm³) Mar. 18, 19, 1956, elevation, 4,684.18 ft (1,427.738 m).

Reservoir is formed by rockfill dam completed by Bureau of Reclamation in October 1951. Capacity, 802,000 acre-ft (989 hm³) below elevation 4,725.00 ft (1,440.180 m), top of spillway gate. Includes 59,880 acre-ft (73.8 hm³) dead storage below elevation 4,657.00 ft (1,419.454 m), 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, 2.0 mi (3.2 km) downstream from Middle Fork, 3.0 mi (4.8 km) southeast of Anchor, and 32 mi (51 km) 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, 4,250 acre-ft (5.24 hm³) June 24, elevation, 6,397.56 ft (1,949.976 m); no storage on many days. Extremes for period of record: Maximum daily contents, 9,250 acre-ft (11.4 hm³) July 4, 1967, elevation, 6,418.52 ft (1,956.365 m); 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 (21.2 hm³), below elevation 6,441.00 ft (1,963.217 m), crest of spillway. Includes 68 acre-ft (0.0838 hm³) below elevation 6,343.75 ft (1,933.575 m), 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, 5.0 mi (8.0 km) upstream from Trail Creek, and 6.0 mi (9.7 km) 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, 457,200 acre-ft (564 hm³) June 21, elevation, 5,365.23 ft (1,635.322 m); minimum daily, 169,300 acre-ft (209 hm³) Apr. 9, elevation, 5,310.14 ft (1,618.531 m). Extremes for period of record: Maximum daily contents, 507,000 acre-ft (625 hm³) June 15, 1918, elevation, 5,367.3 ft (1,635.95 m); minimum daily, 19,000 acre-ft (23.4 hm³) Jan. 23-25, 1941, elevation, 5,225.3 ft (1,592.67 m).

Reservoir is formed by masonry dam completed by Bureau of Reclamation in 1909. Capacity, 421,300 acre-ft (519 hm³) between elevations 5,140.00 ft (1,566.672 m), gate sill, and 5,630.00 ft (1,633.728 m) 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.

YELLOWSTONE RIVER BASIN

Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974			
Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06224500 BULL LAKE			
Sept. 30	5,802.62	145,000	-
Oct. 31	5,802.50	144,600	-400
Nov. 30	5,802.20	143,700	-900
Dec. 31	5,801.77	142,400	-1,300
CAL YR 1973	-	-	+23,500
Jan. 31	5,801.30	140,900	-1,500
Feb. 28	5,800.72	139,200	-1,700
Mar. 31	5,800.15	137,400	-1,800
Apr. 30	5,792.70	115,500	-21,900
May 31	5,792.30	114,300	-1,200
June 30	5,804.42	150,600	+36,300
July 31	5,803.70	148,400	-2,200
Aug. 31	5,793.15	116,800	-31,600
Sept. 30	5,780.25	81,990	-34,810
WTR YR 1974 *	-	-	-63,010
06258900 BOYSEN RESERVOIR			
Sept. 30	4,724.75	797,200	-
Oct. 31	4,723.13	766,000	-31,200
Nov. 30	4,722.05	745,700	-20,300
Dec. 31	4,721.18	729,700	-16,000
CAL YR 1973	-	-	+156,700
Jan. 31	4,719.98	708,000	-21,700
Feb. 28	4,717.01	656,100	-51,900
Mar. 31	4,713.60	600,100	-56,000
Apr. 30	4,710.18	547,500	-52,600
May 31	4,711.45	566,600	+19,100
June 30	4,725.12	804,400	+237,800
July 31	4,724.20	786,500	-17,900
Aug. 31	4,720.47	716,800	-69,700
Sept. 30	4,719.17	693,600	-23,200
WTR YR 1974	-	-	-103,600
06260300 ANCHOR RESERVOIR			
Sept. 30	6,365.52	681	-
Oct. 31	6,360.32	443	-238
Nov. 30	Dry	0	-443
Dec. 31	Dry	0	0
CAL YR 1973	-	-	0
Jan. 31	Dry	0	0
Feb. 28	Dry	0	0
Mar. 31	Dry	0	0
Apr. 30	6,374.82	1,320	+1,320
May 31	6,377.95	1,600	+280
June 30	6,391.32	3,210	+1,610
July 31	Dry	0	-3,210
Aug. 31	Dry	0	0
Sept. 30	Dry	0	0
WTR YR 1974	-	-	-681
06281500 BUFFALO BILL RESERVOIR			
Sept. 30	5,328.20	241,400	-
Oct. 31	5,322.70	217,400	-24,000
Nov. 30	5,324.00	222,900	+5,500
Dec. 31	5,321.35	211,700	-11,200
CAL YR 1973	-	-	-99,300
Jan. 31	5,318.40	199,800	-11,900
Feb. 28	5,314.50	184,900	-14,900
Mar. 31	5,310.72	171,300	-13,600
Apr. 30	5,313.59	181,500	+10,200
May 31	5,326.88	235,500	+54,000
June 30	5,363.85	447,500	+212,000
July 31	5,360.60	425,300	-22,200
Aug. 31	5,351.72	368,000	-57,300
Sept. 30	5,342.67	314,700	-53,300
WTR YR 1974	-	-	+73,300

CHEYENNE RIVER BASIN

91

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 mi (0.6 km) north of Spencer, 1.0 mi (1.6 km) upstream from mouth, and 34 mi (55 km) south of Newcastle.

DRAINAGE AREA.--2,070 mi² (5,360 km²), 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 (1,143 m), from map prepared by Army Map Service, Corps of Engineers. Prior to Aug. 14, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 25.9 ft³/s (0.733 m³/s), 18,760 acre-ft/yr (23.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 675 ft³/s (19.1 m³/s) Jan. 16; maximum gage height, 4.36 ft (1.329 m) Jan. 16 (backwater from ice); no flow for many days.

Period of record: Maximum discharge, 7,410 ft³/s (210 m³/s) May 24, 1971, gage height, 9.67 ft (2.947 m); 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 (15.8 hm³). Diversions for irrigation of about 3,500 acres (14.2 km²) above station.

REVISIONS (WATER YEARS).--WSP 1209: 1948(P), 1950.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	9.0	5.0	0	20	10	6.0	15	1.6	0	0	
2	7.6	9.0	4.0	0	10	10	6.0	11	1.3	0	0	
3	6.6	8.2	2.0	0	10	10	11	10	1.3	0	0	
4	6.0	7.0	2.0	0	10	10	10	9.2	1.3	0	0	
5	6.0	7.0	2.0	0	10	11	6.0	11	1.2	0	0	
6	5.4	6.0	2.0	0	5.0	8.0	7.6	14	1.2	0	0	
7	5.4	6.0	2.0	0	5.0	10	6.0	14	1.1	0	0	
8	5.4	5.0	2.0	0	5.0	9.2	6.0	10	1.1	.50	0	
9	5.4	6.0	2.0	0	10	6.4	2.0	7.6	.95	.30	0	
10	5.4	6.0	2.0	0	10	6.6	6.6	7.6	.95	.20	8.2	
11	5.4	11	2.0	0	10	4.0	14	6.6	.95	0	.50	
12	5.4	15	2.0	.05	10	2.0	16	7.6	.80	0	0	
13	4.0	15	2.0	.10	10	4.0	20	9.0	.80	0	0	
14	4.0	12	2.0	.50	10	4.0	20	7.6	.80	0	0	
15	4.0	11	2.0	1.0	10	2.0	20	6.0	.65	0	0	
16	4.4	9.0	2.0	2.0	10	6.0	20	4.4	.54	0	0	
17	4.4	8.2	2.0	4.0	10	4.8	26	5.4	.54	0	0	
18	4.4	8.2	2.0	2.0	10	1.3	21	2.0	.44	0	0	
19	2.0	7.6	1.0	2.0	10	5.4	20	1.0	.44	0	0	
20	2.0	6.0	1.0	1.0	10	6.6	20	2.0	.26	0	0	
21	3.0	6.0	1.0	1.0	10	5.0	26	3.4	.36	0	0	
22	3.0	6.0	1.0	7.0	10	5.0	34	1.6	.20	75	0	
23	3.0	6.0	1.0	5.0	10	5.0	20	1.6	.23	15	0	
24	4.0	6.0	1.0	4.0	10	5.0	36	1.6	.18	5.0	0	
25	4.0	6.0	1.0	4.0	10	6.7	22	1.0	.18	1.0	0	
26	2.0	6.0	1.0	4.0	10	4.2	26	1.0	.10	.30	0	
27	2.0	5.0	1.0	3.0	10	6.6	21	1.6	.08	0	0	
28	2.0	5.0	1.0	2.0	10	5.4	10	1.6	.05	0	0	
29	1.0	7.0	.50	2.0	-----	2.2	15	1.6	.02	0	0	
30	1.0	7.0	.60	2.0	-----	2.4	14	1.6	.01	0	0	
31	9.0	-----	.20	2.0	-----	6.6	-----	1.0	-----	0	0	
TOTAL	240.4	233.1	65.70	1,894.65	275.0	192.1	585.1	184.0	19.99	97.30	8.70	0
MEAN	7.75	7.77	2.12	61.1	8.82	6.20	18.5	5.94	.67	3.14	.28	0
MAX	31	15	5.0	46.0	20	11	30	15	1.6	75	8.2	0
MTN	2.0	5.0	2.0	0	5.0	1.2	2.9	1.6	.01	0	0	0
AC-FT	477	462	120	2,760	545	281	1,160	365	40	193	17	0

CAL YR 1973 TOTAL 12,410.05 MEAN 34.0 MAX 2,010 MTN 0 AC-FT 24,620

WTR YR 1974 TOTAL 2,796.04 MEAN 10.6 MAX 46.0 MTN 0 AC-FT 7,530

PEAK DISCHARGE (BASE, 750 FT³/S).--No peak above base.

NOTE.--No gage-height record Jan. 22 to Mar. 3.

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 mi (2.9 km) downstream from Robbers Roost Creek, 7.5 mi (12.1 km) northeast of Spencer, and 30 mi (48 km) south of Newcastle.

DRAINAGE AREA.--5,270 mi² (13,650 km²), approximately.

PERIOD OF RECORD.--October 1948 to September 1974 (discontinued). Published as South Fork Cheyenne River near Spencer October 1949 to September 1951.

GAGE.--Water-stage recorder. Altitude of gage is 3,600 ft (1,097 m), from topographic map. Prior to Oct. 18, 1955, water-stage recorder at site 400 ft (122 m) upstream, Oct. 18, 1955, to Aug. 1, 1961, at site 2,500 ft (762 m) upstream, and Aug. 1, 1961, to Aug. 22, 1962, at site 2,200 ft (671 m) upstream; all at different datums.

AVERAGE DISCHARGE.--26 years, 58.2 ft³/s (1.648 m³/s), 42,170 acre-ft/yr (52.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,190 ft³/s (33.7 m³/s) Jan. 16, gage height, 4.30 ft (1.311 m); no flow for many days.

Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) May 27, 1962, gage height, 8.74 ft (2.664 m), site and datum then in use; 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 33,900 acre-ft (41.8 hm³). Diversions above station for irrigation of about 6,860 acres (27.8 km²), of which about 140 acres (57 hm²) lies 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	20	0	40	30	16	23	3.0	0	0	
2	21	21	22	0	40	20	18	22	2.8	0	0	
3	21	16	24	0	40	20	25	19	2.3	0	0	
4	16	15	15	0	40	20	26	17	1.8	0	0	
5	17	16	10	0	20	20	25	19	1.4	0	0	
6	14	12	5.0	0	20	20	20	19	2.0	0	0	
7	11	11	5.0	0	20	20	22	16	1.8	0	0	
8	10	11	5.0	0	20	20	21	18	1.6	0	0	
9	12	12	5.0	0	20	20	16	16	1.6	0	0	
10	12	15	5.0	0	20	20	16	17	1.6	0	7.4	
11	12	26	6.0	0	20	20	29	12	1.4	0	13	
12	11	54	6.0	0	20	20	21	10	1.2	0	2.0	
13	10	51	6.0	.10	20	20	28	12	1.1	0	.50	
14	10	40	6.0	.50	20	20	38	8.2	.90	0	.20	
15	10	29	6.0	1.0	25	20	22	8.9	.90	0	0	
16	9.9	24	6.0	214	35	20	32	8.2	.75	0	0	
17	9.3	22	5.0	723	35	20	40	8.2	.75	0	0	
18	8.6	20	2.0	209	25	22	42	11	.60	0	0	
19	8.2	19	2.0	281	40	19	28	10	.50	0	0	
20	8.0	12	2.0	266	50	15	40	7.7	.50	0	0	
21	8.0	12	2.0	149	40	15	39	7.1	.50	0	0	
22	7.7	12	2.0	100	40	15	39	6.0	.40	21	0	
23	7.5	12	2.0	80	40	15	42	4.3	.30	17	0	
24	7.1	11	2.0	60	40	15	40	3.9	.25	8.0	0	
25	6.3	12	2.0	60	30	15	40	3.6	.20	3.0	0	
26	73	12	2.0	60	30	18	45	4.7	.10	1.5	0	
27	149	12	2.0	50	20	15	42	4.7	.10	.70	0	
28	61	12	2.0	50	20	18	31	4.3	.05	.30	0	
29	52	17	1.5	50	-----	14	25	5.5	.01	.10	0	
30	35	20	1.0	50	-----	12	22	4.7	0	0	0	
31	27	-----	.50	40	-----	16	-----	3.3	-----	0	0	-----
TOTAL	716.8	597	184.00	2,632.60	940	645	924	324.2	30.41	51.60	23.10	0
MEAN	22.8	19.9	5.94	84.9	29.6	20.8	31.1	10.8	1.01	1.66	.75	0
MAX	149	54	24	723	50	30	45	23	3.0	21	13	0
MIN	7.1	11	.50	0	20	12	16	2.3	0	0	0	0
AC-FT	1,420	1,180	365	5,220	1,960	1,280	1,850	663	60	102	46	0

CAL YR 1973 TOTAL 26,749.70 MEAN 72.2 MAX 2,120 MIN 0 AC-FT 52,060
WTR YR 1974 TOTAL 7,088.81 MEAN 19.4 MAX 722 MIN 0 AC-FT 14,060

PEAK DISCHARGE (BASE, 2,000 FT³/S).--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 mi (3.5 km) downstream from Sheep Creek, and 23 mi (37 km) south of Newcastle.

DRAINAGE AREA.--1,320 mi² (3,420 km²), approximately.

PERIOD OF RECORD.--February to September 1943, October 1944 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,660 ft (1,116 m), from topographic map. Prior to Nov. 1, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years (1944-74), 32.6 ft³/s (0.923 m³/s), 23,620 acre-ft/yr (29.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 782 ft³/s (22.1 m³/s) Feb. 17; maximum gage height, 9.47 ft (2.886 m) Feb. 16 (backwater from ice); no flow Sept. 9-12.

Period of record: Maximum discharge, 11,900 ft³/s (337 m³/s) June 16, 1962, gage height, 19.98 ft (6.090 m); no flow at times in 1943, 1945, 1950, 1952-61, 1966, 1974.

REMARKS.--Records poor. There are many small reservoirs above station used for storage of stock and irrigation water, total capacity, about 11,000 acre-ft (13.6 hm³). Diversions for irrigation of about 4,900 acres (19.8 km²) 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 CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	22	2.0	50	190	4.1	1.6	.30	.10	.05	.20
2	10	16	21	2.0	40	291	4.8	1.4	.30	1.0	.05	.17
3	10	17	16	3.0	40	236	5.9	1.3	.20	30	.03	.61
4	9.5	14	10	3.0	40	262	5.4	1.1	.20	15	.03	.24
5	9.5	12	9.0	3.0	30	301	6.1	1.0	.20	6.4	.03	.12
6	9.0	14	9.0	3.0	30	172	4.1	.90	.20	5.1	.03	.05
7	9.0	15	9.0	3.0	30	95	4.1	.85	.17	6.4	.05	.04
8	9.0	16	9.0	3.0	30	68	3.2	.82	.35	4.8	.21	.03
9	9.0	16	9.0	3.0	30	53	3.5	.82	.25	4.5	.15	0
10	9.0	17	9.0	3.0	30	47	3.5	.87	.55	2.5	35	0
11	12	17	11	3.0	40	37	5.9	.83	.23	3.5	96	0
12	11	18	12	4.0	50	37	6.1	.80	.19	4.1	155	0
13	11	17	12	5.0	70	35	5.1	.70	.10	3.8	169	.02
14	10	18	12	7.0	90	35	4.1	.70	.10	3.5	23	.03
15	10	17	12	10	140	32	4.1	.70	.10	2.8	9.9	.03
16	10	25	12	50	300	31	3.2	.60	.10	1.5	4.2	.03
17	9.5	21	12	100	727	30	3.1	.60	.10	3.0	4.5	.05
18	9.5	20	10	120	727	30	3.1	.60	.10	3.8	1.8	.05
19	9.5	19	9.0	140	576	30	3.1	.60	.10	4.5	.78	.03
20	9.5	13	9.0	130	530	21	3.5	.70	.10	3.0	.28	.05
21	9.0	14	10	110	372	20	3.5	.85	.10	13	.22	.05
22	9.0	16	10	100	270	20	4.3	.95	.10	11	.27	.05
23	15	17	10	90	245	20	3.7	.95	.10	5.4	.18	.09
24	20	17	10	80	169	20	3.7	.83	.10	4.5	.15	.26
25	17	17	9.0	70	202	25	4.5	.70	.10	2.0	.08	.21
26	16	17	9.0	60	155	27	3.8	.60	.10	.51	.05	.15
27	17	16	8.0	60	149	23	3.0	.50	.10	.21	.04	.08
28	16	17	8.0	60	199	17	2.3	.40	.10	.10	.04	.10
29	16	20	7.0	60	-----	14	2.2	.40	.10	.10	.12	.11
30	15	22	5.0	60	-----	14	2.0	.30	.10	.06	.09	.15
31	16	-----	3.0	50	-----	7.3	-----	.30	-----	.06	.05	-----
TOTAL	362.0	511	323.0	1,397.0	5,461	2,240.3	119.3	24.27	4.95	146.84	501.51	3.03
MEAN	11.7	17.0	10.4	45.1	195	72.3	3.98	.73	.17	4.74	16.2	.10
MAX	20	25	22	140	727	301	6.1	1.5	.55	30	169	.61
MIN	9.0	12	3.0	2.0	30	7.3	2.0	.30	.10	.06	.03	0
AC-FT	718	1,010	641	2,770	10,830	4,440	237	43	9.8	291	995	6.0

CAL YR 1973 TOTAL 6,950.14 MEAN 19.0 MAX 755 MIN .22 AC-FT 13,790
 WTR YR 1974 TOTAL 11,094.20 MEAN 30.4 MAX 727 MIN 0 AC-FT 22,010

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE TIME G.H.T. DISCHARGE

2-17 1630 8.15 782

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 (91 m) downstream from Burlington Northern Railroad bridge and 600 ft (183 m) upstream from Cottonwood Creek.

DRAINAGE AREA.--7,143 mi² (18,500 km²).

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 3,414.56 ft (1,040.758 m) above mean sea level. Prior to Dec. 1, 1906, nonrecording gage 20 ft (6 m) upstream at datum 0.7 ft (0.21 m) 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, and Apr. 25, 1963, to Sept. 30, 1972, water-stage recorder, all at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--32 years (1928-32, 1946-74), 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (91.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 394 ft³/s (11.2 m³/s) Mar. 6, gage height, 3.50 ft (1.067 m); maximum gage height observed, 4.86 ft (1.481 m) Jan. 23 (backwater from ice); no flow for many days during June to September.

Period of record: Maximum discharge, 13,800 ft³/s (391 m³/s) May 25, 1971, gage height, 10.57 ft (3.222 m), present datum; no flow at times most years.

Flood of May 12, 1920, reached a stage of 13.0 ft (3.96 m) and May 1, 1922, 14.0 ft (4.27 m), 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 (55.5 hm³). 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	44	25	1.0	40	186	32	26	5.8	.06	0	.66
2	35	41	25	1.0	40	189	29	24	5.1	1.5	0	.22
3	31	40	23	1.0	40	301	32	22	4.4	1.1	0	.12
4	30	38	20	1.0	42	218	33	20	3.3	.22	0	.12
5	27	35	15	1.0	40	258	32	19	4.0	.08	.06	.07
6	27	40	14	1.0	35	311	31	19	5.8	0	.03	.03
7	27	40	15	1.2	30	193	32	17	3.6	.06	.14	.11
8	24	38	14	1.0	30	140	27	16	4.7	.05	.13	.07
9	27	45	12	.80	35	111	26	16	3.3	.02	.18	.11
10	33	47	12	.60	40	92	22	16	2.6	.15	5.5	.09
11	27	51	14	.50	50	90	30	15	2.0	.13	12	.66
12	26	56	15	1.0	60	85	34	13	2.0	0	36	1.1
13	27	58	14	2.0	63	75	34	13	2.0	0	66	.22
14	27	58	14	2.3	70	70	37	12	1.5	0	66	0
15	27	50	12	2.5	75	70	36	12	1.3	0	2.9	0
16	26	44	14	2.5	80	68	34	12	.66	0	3.6	.04
17	26	47	15	30	80	68	35	12	.66	0	4.0	0
18	26	45	12	100	75	66	39	12	.66	.14	2.9	0
19	26	44	8.0	100	75	56	43	12	.44	.24	2.0	0
20	26	27	10	150	75	43	51	9.9	.88	.76	1.5	.44
21	27	29	12	150	70	45	43	8.1	.44	5.0	1.3	0
22	26	30	12	100	60	47	43	8.7	.22	6.4	5.1	.02
23	25	28	10	100	55	40	43	7.5	.80	9.0	14	.22
24	27	25	11	60	50	50	43	7.0	1.1	5.1	1.8	.12
25	33	22	11	35	60	64	41	7.0	.44	.88	1.1	.05
26	33	20	12	35	100	66	41	7.0	.22	0	.44	.04
27	117	19	11	32	160	56	44	6.4	.22	0	.44	0
28	113	19	8.0	32	200	51	37	7.5	.06	.04	.44	.05
29	75	22	5.0	35	-----	48	32	10	.06	.09	1.1	.07
30	54	25	3.0	40	-----	40	27	8.1	0	.11	.22	0
31	48	-----	1.0	35	-----	32	-----	7.0	-----	.05	.13	-----
TOTAL	1,143	1,127	399.0	1,054.40	1,830	3,229	1,063	402.2	58.26	31.18	229.01	4.63
MEAN	36.9	37.6	12.9	34.0	65.4	104	35.4	13.0	1.94	1.01	7.39	.15
MAX	117	58	25	150	200	311	51	26	5.8	9.0	66	1.1
MIN	24	19	1.0	.50	30	32	22	6.4	0	0	0	0
AC-FT	2,270	2,240	791	2,090	3,630	6,400	2,110	798	116	62	454	9.2

CAL YR 1973 TOTAL 30,926.60 MEAN 84.7 MAX 3,270 MIN .50 AC-FT 61,340
WTR YR 1974 TOTAL 10,570.68 MEAN 29.0 MAX 311 MIN 0 AC-FT 20,970

PEAK DISCHARGE (BASE, 1,500 FT³/S).--No peaks above base.

CHEYENNE RIVER BASIN

95

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 mi (19 km) northeast of Moorcroft.

DRAINAGE AREA.--2,000 mi² (5,180 km²), 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; May 15, 1958 to Sept. 30, 1968, water-stage recorder; all at present site and datum.

EXTREMES.--Current year: Maximum daily contents, 168,600 acre-ft (208 hm³) Mar. 17-22, elevation, 4,095.74 ft (1,248.382 m); minimum daily, 139,300 acre-ft (172 hm³) Sept. 30, elevation, 4,091.89 ft (1,247.208 m).

Period of record: Maximum contents, 195,800 acre-ft (241 hm³) Mar. 8, 1972, elevation, 4,098.87 ft (1,249.336 m); minimum daily contents (since appreciable storage was attained), 6,030 acre-ft (7.43 hm³) Mar. 8, 9, 1955, elevation, 4,046.35 ft (1,233.327 m).

REMARKS.--Reservoir is formed by a zoned earthfill dam completed by the Bureau of Reclamation Oct. 25, 1952. Storage began Feb. 12, 1952. Dead storage, below elevation 4,036.0 ft (1,230.17 m), 1,170 acre-ft (1.44 hm³). Inactive storage, between elevations 4,036.0 ft (1,230.17 m) and 4,051.0 ft (1,234.74 m), 8,310 acre-ft (10.2 hm³). Total capacity below elevation 4,099.3 ft (1,249.47 m), crest of spillway, 199,900 acre-ft (246 hm³). 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 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,094.32	157,300	-
Oct. 31	4,094.32	157,300	0
Nov. 30	4,094.19	156,300	-1,000
Dec. 31	4,094.23	156,600	+300
CAL YR 1973	-	-	-10,700
Jan. 31	4,094.94	162,100	+5,500
Feb. 28	4,095.58	167,300	+5,200
Mar. 31	4,095.70	168,300	+1,000
Apr. 30	4,095.66	167,900	-400
May 31	4,095.46	166,300	-1,600
June 30	4,094.92	162,000	-4,300
July 31	4,093.54	151,300	-10,700
Aug. 31	4,092.31	142,300	-9,000
Sept. 30	4,091.89	139,300	-3,000
WTR YR 1974	-	-	-18,000

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 mi (0.3 km) downstream from Keyhole Dam, 1.0 mi (1.6 km) downstream from Mule Creek, 2.5 mi (4.0 km) upstream from Spring Creek, and 12 mi (19 km) northeast of Moorcroft.

DRAINAGE AREA.--2,000 mi² (5,180 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 4,031.26 ft (1,228.728 m) above mean sea level.

EXTREMES.--Current year: Maximum daily discharge, 128 ft³/s (3.62 m³/s) June 27 to Aug. 13; maximum gage height, 2.22 ft (0.677 m) Aug. 14 (backwater from beaver dam); minimum daily discharge, 1.5 ft³/s (0.042 m³/s) May 20 to June 25 (seepage flow).

Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) Sept. 5, 1951, gage height, 6.30 ft (1.920 m); minimum daily since appreciable storage in Keyhole Reservoir, 0.30 ft³/s (0.008 m³/s) Feb. 6-20, 1960; no flow at times in 1951-52.

REMARKS.--Records good. Flow completely regulated by Keyhole Reservoir, 0.2 mi (0.3 km) upstream, since February 1952. (See sta 06427000.) Diversions for irrigation of about 820 acres (3.32 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.5	2.5	2.5	2.5	2.5	2.4	1.8	1.5	128	128	59
2	2.5	2.5	2.5	2.5	2.5	2.5	2.4	1.8	1.5	128	128	59
3	2.5	2.5	2.5	2.5	2.5	2.5	2.4	1.8	1.5	128	128	31
4	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.8	1.5	128	128	2.9
5	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.8	1.5	128	128	2.9
6	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.7	1.5	128	128	2.9
7	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.7	1.5	128	128	2.9
8	2.5	2.5	2.5	2.5	2.5	2.5	2.3	1.7	1.5	128	128	2.9
9	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.7	1.5	128	128	2.9
10	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.7	1.5	128	128	2.9
11	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.7	1.5	128	128	2.9
12	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.6	1.5	128	128	2.9
13	2.5	2.5	2.5	2.5	2.5	2.5	2.2	1.6	1.5	128	128	2.9
14	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.6	1.5	128	110	2.9
15	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.6	1.5	128	91	2.9
16	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.6	1.5	128	91	2.9
17	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.6	1.5	128	91	2.9
18	2.5	2.5	2.5	2.5	2.5	2.5	2.1	1.6	1.5	128	91	2.9
19	2.5	2.5	2.5	2.5	2.5	2.5	2.0	1.6	1.5	128	91	2.9
20	2.5	2.5	2.5	2.5	2.5	2.5	2.0	1.5	1.5	128	91	2.9
21	2.5	2.5	2.5	2.5	2.5	2.5	2.0	1.5	1.5	128	91	2.9
22	2.5	2.5	2.5	2.5	2.5	2.5	2.0	1.5	1.5	128	75	2.8
23	2.5	2.5	2.5	2.5	2.5	2.5	2.0	1.5	1.5	128	59	2.8
24	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.5	1.5	128	59	2.8
25	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.5	1.5	128	59	2.8
26	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.5	65	128	59	2.8
27	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.5	128	128	59	2.8
28	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.5	128	128	59	2.8
29	2.5	2.5	2.5	2.5	-----	2.5	1.9	1.5	128	128	59	2.8
30	2.5	2.5	2.5	2.5	-----	2.5	1.8	1.5	128	128	59	2.8
31	2.5	-----	2.5	2.5	-----	2.4	-----	1.5	-----	128	59	-----
TOTAL	77.5	75.0	77.5	77.5	70.0	77.4	62.4	50.0	614.5	3,968	3,017	226.4
MEAN	2.50	2.50	2.50	2.50	2.50	2.50	2.11	1.61	20.5	128	97.3	7.55
MAX	2.5	2.5	2.5	2.5	2.5	2.5	2.4	1.8	128	128	128	59
MIN	2.5	2.5	2.5	2.5	2.5	2.4	1.8	1.5	1.5	128	59	2.8
AC-FT	154	149	154	154	130	154	126	99	1,220	7,870	5,980	449

CAL YR 1973 TOTAL 4,182.0 MEAN 11.5 MAX 75 MIN 2.0 AC-FT 8,300
WTR YR 1974 TOTAL 8,204.2 MEAN 23.0 MAX 128 MIN 1.5 AC-FT 16,650

CHEYENNE RIVER BASIN

97

06428500 BELLE FOURCHE RIVER AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°44'59", long 104°02'49", in NE¼NW¼NW¼ sec.18, T.9 N., R.1 E., Butte County, S. Dak, on left bank 0.3 mi (0.5 km) downstream from State line, 3.7 mi (6.0 km) downstream from Oak Creek and 11 mi (18 km) northwest of Belle Fourche, S. Dak.

DRAINAGE AREA.--3,280 mi² (8,500 km²), approximately.

PERIOD OF RECORD.--December 1946 to current year. Records for water year 1947 incomplete, yearly estimate published in WSP 1729.

GAGE.--Water-stage recorder. Datum of gage is 3,095.7 ft (943.57 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 87.7 ft³/s (2.484 m³/s), 63,540 acre-ft/yr (78.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 873 ft³/s (24.7 m³/s) Mar. 5; maximum gage height, 8.06 ft (2.457 m) Jan. 20 (backwater from ice); minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Jan. 10, 11.

Period of record: Maximum discharge, 4,400 ft³/s (125 m³/s) June 18, 1962, gage height, 15.59 ft (4.752 m); no flow at times most years.

REMARKS.--Records good except those for winter periods, which are poor. Diversions above station for irrigation of about 5,400 acres (2,200 hm²). Flow regulated by Keyhole Reservoir, usable capacity, 191,600 acre-ft (236 hm³), 143 mi (230 km) upstream, since Oct. 25, 1952. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	50	138	10	50	90	78	164	102	94	109	59
2	32	50	52	10	65	83	80	147	91	104	112	65
3	30	50	54	9.5	75	112	79	143	82	127	112	64
4	31	35	46	9.0	85	194	77	138	73	133	110	63
5	31	26	34	9.0	80	688	74	132	70	133	109	60
6	31	30	35	9.0	70	593	71	124	66	130	110	56
7	30	40	50	9.0	60	308	70	115	66	125	108	54
8	31	40	50	9.0	50	206	73	108	69	127	109	46
9	34	50	45	9.0	55	179	77	102	68	122	134	40
10	52	53	50	8.0	55	148	79	97	70	116	145	36
11	61	54	60	8.0	60	133	93	91	65	115	130	34
12	56	59	50	8.5	70	124	110	87	60	113	129	32
13	50	67	40	9.0	75	129	157	82	56	119	131	31
14	47	59	35	15	80	122	224	78	53	116	135	29
15	45	52	35	20	85	111	224	78	50	112	131	27
16	44	50	40	50	90	106	181	77	48	106	128	27
17	43	49	45	80	95	102	168	79	45	98	120	26
18	44	48	35	100	100	99	148	82	43	119	95	25
19	43	49	30	120	100	97	162	82	42	113	92	23
20	41	34	30	150	100	88	196	82	40	149	86	21
21	39	26	35	200	100	70	334	82	40	257	87	21
22	38	33	40	150	150	87	459	77	40	202	86	20
23	37	35	35	120	150	65	376	75	37	151	90	20
24	36	56	35	100	100	83	291	70	36	131	88	20
25	35	56	35	110	95	79	237	68	36	122	81	19
26	37	68	35	100	101	114	227	66	38	105	67	19
27	43	65	30	90	116	99	333	63	33	128	58	18
28	75	59	25	90	104	86	252	70	29	116	57	18
29	65	55	20	90	-----	76	216	76	29	113	55	17
30	56	48	15	80	-----	77	188	148	47	110	56	17
31	50	-----	12	60	-----	77	-----	127	-----	109	56	-----
TOTAL	1,322	1,446	1,271	1,842.0	2,416	4,625	5,334	3,010	1,624	3,915	3,116	1,007
MEAN	42.6	48.2	41.0	59.4	86.3	149	178	97.1	54.1	126	101	33.6
MAX	75	68	138	200	150	688	459	164	102	257	145	65
MIN	30	26	12	8.0	50	65	70	63	29	94	55	17
AC-FT	2,620	2,870	2,520	3,650	4,790	9,170	10,580	5,970	3,220	7,770	6,180	2,000

CAL YR 1973 TOTAL 40,541.0 MEAN 111 MAX 1,040 MIN 12 AC-FT 80,410
WTR YR 1974 TOTAL 30,928.0 MEAN 84.7 MAX 688 MIN 8.0 AC-FT 61,350

LOCATION.--Lat 44°34'35", long 104°02'58", in SW₄SW₄ sec.7, T.7 N., R.1 E., Butte County, S. Dak., on right bank 15 ft (5 m) downstream from State line and 12 mi (19 km) southwest of Belle Fourche, S. Dak.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft (1,050 m), from topographic map.

EXTREMES.--Period of record: Maximum daily discharge, 37 ft³/s (1.05 m³/s) July 17, 1973; no flow for long periods in each year.

REMARKS.--Records fair. Ditch diverts water from left bank of Redwater Creek, 2.0 mi (3.2 km) upstream, for irrigation of about 700 acres (283 km²). Flow maintained during irrigation season only.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	5.6								2.4	14	17
2	4.5	3.7								10	17	17
3	2.4	1.4								7.9	15	17
4	1.4	1.1								10	16	17
5	.70	.60								11	11	15
6	.70	.30								15	16	10
7	.60	.35								10	17	11
8	.30	.22								10	18	10
9	.45	0								11	16	8.8
10	3.6	0								14	16	8.0
11	7.6	.06								18	14	11
12	6.6	.02								16	12	12
13	6.0	0								17	14	6.7
14	5.7	0								17	14	6.2
15	5.8	0								17	15	7.4
16	5.8	0								15	14	7.4
17	5.7	0								14	15	8.0
18	5.8	0								12	15	7.4
19	6.3	0								15	16	7.0
20	5.2	0								19	14	6.4
21	3.6	0								15	21	4.8
22	3.3	0								15	15	2.5
23	2.6	0								14	15	1.7
24	2.1	0								13	15	1.5
25	1.5	0								12	15	4.9
26	1.3	0								11	16	10
27	1.1	0								11	15	13
28	1.2	0								13	16	13
29	4.1	0			-----					14	16	13
30	5.0	0			-----					13	16	13
31	3.1	-----			-----		-----		-----	13	16	-----
TOTAL	108.15	13.35	0	0	0	0	0	0	0	405.3	475	287.7
MEAN	3.49	.45	0	0	0	0	0	0	0	13.1	15.3	9.59
MAX	7.6	5.6	0	0	0	0	0	0	0	19	21	17
MIN	.30	0	0	0	0	0	0	0	0	2.4	11	1.5
AC=FT	215	26	0	0	0	0	0	0	0	804	942	571
CAL YR 1973	TOTAL 1,169.27		MEAN 3.20	MAX 37	MIN 0	AC=FT 2,320						
WTR YR 1974	TOTAL 1,289.50		MEAN 3.53	MAX 21	MIN 0	AC=FT 2,560						

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, S. Dak., on left bank 800 ft (244 m) downstream from State line, 5.7 mi (9.2 km) upstream from Crow Creek, and 12 mi (19 km) southwest of Belle Fourche, S. Dak.

DRAINAGE AREA.--471 mi² (1,219 km²).

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 (1,040 m), from topographic map. Apr. 25, 1929, to Sept. 30, 1931, and Feb. 28, 1936, to July 31, 1937, nonrecording gage at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--22 years (1929-31, 1954-74), 36.2 ft³/s (1.025 m³/s), 26,230 acre-ft/yr (32.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 226 ft³/s (6.40 m³/s) July 2, gage height, 3.96 ft (1.207 m); minimum daily, 13 ft³/s (0.37 m³/s) July 17, 18.

Period of record: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Aug. 22, 1973, gage height, 12.19 ft (3.716 m); 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 station 06430000.) Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1309: 1931(M), 1936-37(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	44	48	45	45	42	45	59	54	41	23	26
2	44	44	48	45	44	43	45	59	52	65	22	24
3	46	47	48	44	44	47	44	61	52	44	24	23
4	47	46	48	45	44	45	43	59	52	39	32	24
5	48	48	48	44	46	43	42	57	56	40	30	26
6	48	48	46	45	43	43	43	57	61	34	25	29
7	47	48	46	47	44	42	47	54	57	37	27	29
8	48	48	47	45	44	42	46	54	55	37	27	29
9	51	48	46	45	44	41	46	57	54	33	25	31
10	48	49	48	43	44	42	49	58	52	27	27	34
11	42	49	49	43	44	42	56	57	51	20	27	34
12	43	49	50	45	45	43	54	57	52	19	28	35
13	42	49	47	47	45	43	52	56	52	18	29	40
14	42	49	48	47	44	42	50	55	51	18	32	39
15	42	48	47	48	44	41	51	53	50	19	31	39
16	42	49	46	58	43	41	51	54	50	18	30	39
17	41	49	48	55	44	42	55	56	51	13	30	39
18	42	49	48	48	43	43	64	55	53	13	30	39
19	41	49	45	48	43	46	65	54	53	14	30	39
20	42	48	46	47	43	42	67	53	52	15	31	40
21	43	49	47	46	41	41	81	52	53	14	25	40
22	44	48	48	45	42	41	73	50	50	15	22	41
23	45	47	49	45	43	41	64	51	50	16	22	41
24	49	48	47	45	41	41	59	52	49	16	22	41
25	47	49	48	45	42	42	67	54	51	17	22	36
26	47	48	47	46	43	43	77	53	51	20	22	33
27	47	47	45	45	43	43	93	54	49	23	22	33
28	46	47	46	45	42	43	77	58	48	21	23	34
29	44	49	45	45	-----	44	66	57	48	22	23	34
30	42	48	45	45	-----	44	61	57	48	24	23	34
31	44	-----	46	44	-----	45	-----	56	-----	24	23	-----
TOTAL	1,390	1,438	1,460	1,430	1,217	1,323	1,733	1,719	1,557	776	809	1,025
MEAN	44.8	47.9	47.1	46.1	43.5	42.7	57.8	55.5	51.9	25.0	26.1	34.2
MAX	51	49	50	58	46	47	93	61	61	65	32	41
MIN	41	44	45	43	41	41	42	50	48	13	22	23
AC-FT	2,760	2,850	2,900	2,840	2,410	2,620	3,440	3,410	3,090	1,540	1,600	2,030

CAL YR 1973 TOTAL 20,656 MEAN 56.6 MAX 490 MIN 18 AC-FT 40,970
WTR YR 1974 TOTAL 15,877 MEAN 43.5 MAX 93 MIN 13 AC-FT 31,490

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
7- 2	2045	3.96	226

06454000 NIOBRARA RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 42°39'33", long 104°03'54", in SE¼SW¼ sec.15, T.31 N., R.60 W., Niobrara County, Wyo., on left bank 0.2 mi (0.3 km) downstream from Van Tassel Creek, 0.3 mi (0.5 km) upstream from Wyoming-Nebraska State line, and 3 mi (5 km) east of Van Tassel, Wyo.

DRAINAGE AREA.--450 mi² (1,170 km²), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,687.70 ft (1,428.811 m) above mean sea level, datum of 1956.

AVERAGE DISCHARGE.--19 years, 4.42 ft³/s (0.125 m³/s), 3,200 acre-ft/yr (3.95 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 605 ft³/s (17.1 m³/s) Jan. 16, gage height, 6.28 ft (1.914 m); minimum daily, 0.82 ft³/s (0.023 m³/s) Aug. 27.

Period of record: Maximum discharge, 800 ft³/s (22.7 m³/s) July 17, 1969, gage height, 6.92 ft (2.109 m) in gage well, 6.75 ft (2.057 m), from floodmarks, from rating curve extended above 63 ft³/s (1.78 m³/s) on basis of computation of peak flow through culvert and over road; minimum daily, 0.82 ft³/s (0.023 m³/s) Aug. 27, 1974.

REMARKS.--Records fair. Diversions for irrigation of about 4,700 acres (19.0 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.8	3.5	3.4	5.4	10	4.0	4.3	3.2	1.9	1.4	1.5
2	2.7	2.8	3.6	3.2	5.5	157	3.7	4.2	3.1	1.8	1.4	1.5
3	2.7	3.0	3.5	3.1	5.2	92	4.0	4.0	3.1	1.7	1.4	1.4
4	2.8	3.0	3.6	2.9	5.1	12	4.4	3.9	2.9	1.6	1.4	1.4
5	2.8	3.0	3.6	2.8	4.9	8.3	4.5	3.5	2.8	1.5	1.4	1.4
6	2.8	3.3	3.5	2.8	4.7	8.3	4.3	3.5	2.8	1.4	1.3	1.4
7	2.7	3.6	3.5	2.7	4.6	9.9	4.5	3.4	2.8	1.4	1.2	1.3
8	2.7	3.4	3.7	2.8	5.0	9.9	4.2	3.4	3.1	1.4	1.3	1.3
9	3.2	3.5	3.7	2.5	5.4	8.9	4.2	3.3	3.0	1.3	1.3	1.3
10	3.1	3.6	3.6	2.5	5.1	9.9	4.0	3.3	2.8	1.4	1.6	1.3
11	3.0	3.6	3.7	2.5	5.3	9.6	4.4	3.3	2.7	1.6	1.5	1.5
12	2.9	3.8	3.8	2.4	5.6	8.9	191	3.3	2.6	1.5	1.4	2.3
13	2.8	3.6	3.8	2.5	5.4	8.6	83	3.1	2.5	1.3	1.4	1.9
14	3.0	3.5	4.0	2.5	5.3	8.0	7.4	3.1	2.4	1.4	1.3	1.8
15	3.0	3.3	4.0	4.4	5.4	7.0	7.6	3.1	2.5	1.4	1.3	1.7
16	3.0	3.3	4.0	93	5.5	7.4	6.6	3.1	2.5	1.4	1.3	1.8
17	2.8	3.3	4.2	155	5.7	6.7	7.9	3.2	2.4	1.4	1.1	1.7
18	2.8	3.4	5.9	26	5.5	6.4	11	3.4	2.3	1.4	1.1	1.8
19	2.7	3.6	4.2	5.7	5.2	6.0	10	3.4	2.2	1.4	1.2	1.7
20	2.8	3.5	4.3	2.7	5.5	5.4	10	3.5	2.1	1.4	1.2	1.9
21	3.8	3.6	4.4	3.6	5.1	5.4	10	3.4	2.1	1.4	1.2	1.9
22	3.3	3.6	4.2	4.4	5.2	4.8	9.6	3.4	2.3	1.4	1.1	2.0
23	3.0	3.6	4.6	4.6	4.8	4.8	8.3	3.6	2.4	1.4	1.1	2.0
24	3.2	3.6	4.4	4.2	5.0	4.6	7.1	3.5	2.4	1.4	.97	2.0
25	3.0	3.6	4.4	4.4	5.0	4.6	6.6	3.4	2.4	1.4	.90	2.0
26	2.6	3.4	4.7	8.8	5.2	4.6	6.7	3.4	2.2	1.4	.90	2.2
27	2.4	3.3	3.7	7.8	5.2	4.6	6.0	3.6	2.2	1.4	.82	2.0
28	2.5	3.4	3.8	6.9	5.2	4.5	5.5	3.4	2.0	1.4	.90	2.1
29	2.5	3.4	3.4	6.7	-----	4.2	5.1	3.3	2.0	1.4	1.4	2.0
30	2.7	3.4	3.6	6.6	-----	4.2	4.9	3.2	1.9	1.4	1.5	2.1
31	2.8	-----	3.4	6.3	-----	4.2	-----	3.0	-----	1.4	1.5	-----
TOTAL	88.6	101.8	122.3	389.7	146.4	450.7	490.1	106.5	75.7	45.0	38.79	52.2
MEAN	2.86	3.39	3.95	12.6	5.23	14.5	16.3	3.44	2.52	1.45	1.25	1.74
MAX	3.8	3.8	5.9	155	5.8	157	191	4.3	3.2	1.9	1.6	2.3
MIN	2.4	2.8	3.4	2.4	4.6	4.2	3.7	3.0	1.9	1.3	.82	1.3
AC=FT	176	202	243	773	290	894	972	211	150	89	77	104

CAL YR 1973 TOTAL 1,620.40 MEAN 4.44 MAX 39 MIN 1.8 AC=FT 3,210
WTR YR 1974 TOTAL 2,107.79 MEAN 5.77 MAX 191 MIN .82 AC=FT 4,180

PEAK DISCHARGE (BASE, 20 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1-16	2100	6.28	605	3- 2	2315	4.93	323
1-21	1300	1.97	23	4-12	0500	4.31	238

NIOBRARA RIVER BASIN

101

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 (3 m) upstream from timber farm-vehicle bridge, 300 ft (91 m) upstream from bridge on State Highway 29, 0.2 mi (0.3 km) northwest of Agate, and 14.5 mi (23.3 km) upstream from Whistle Creek.

DRAINAGE AREA.--840 mi² (2,180 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,440 ft (1,353 m), from topographic map. Prior to Nov. 3, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--17 years, 14.7 ft³/s (0.416 m³/s), 10,650 acre-ft/yr (13.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 76 ft³/s (2.15 m³/s) Mar. 5, gage height, 4.00 ft (1.219 m), from floodmark; minimum daily, 2.3 ft³/s (0.065 m³/s) July 14.

Period of record: Maximum discharge, 181 ft³/s (5.13 m³/s) June 23, 1959, gage height, 5.00 ft (1.524 m), from floodmark; minimum daily, 1.8 ft³/s (0.051 m³/s) 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 (27.1 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	17	12	21	25	20	15	6.2	3.2	2.4	3.5
2	14	16	17	12	21	25	20	13	5.9	3.2	2.5	3.8
3	14	15	18	12	21	25	20	13	5.7	3.1	2.7	5.1
4	14	11	18	12	20	25	20	15	5.2	3.1	2.8	7.8
5	14	16	17	12	20	30	21	15	5.2	3.0	2.8	8.7
6	14	17	13	12	20	40	21	14	5.3	3.0	2.7	8.5
7	13	18	19	11	20	38	20	9.2	5.3	3.0	2.7	7.1
8	13	17	19	11	19	30	20	9.9	6.0	3.1	2.8	5.5
9	13	17	15	11	19	27	20	8.9	7.4	3.4	2.8	5.2
10	14	18	16	10	19	27	20	10	6.6	3.3	3.5	4.9
11	14	18	19	10	19	27	23	11	6.6	2.9	3.4	5.0
12	15	19	19	10	19	27	22	7.1	6.6	2.7	3.1	6.3
13	14	18	18	10	19	27	27	7.5	4.6	2.5	3.1	6.6
14	14	18	18	10	20	27	26	7.1	3.8	2.3	3.0	8.2
15	14	18	17	12	20	26	24	7.4	4.0	2.7	3.4	11
16	13	17	18	16	20	22	24	13	3.8	3.1	3.7	11
17	13	17	18	20	21	22	25	13	3.9	2.8	3.3	11
18	13	17	15	25	21	21	23	14	3.9	3.0	3.2	12
19	13	17	14	24	22	21	22	14	3.8	4.1	3.0	12
20	13	16	16	23	22	21	20	13	4.4	4.0	2.9	11
21	13	15	15	23	23	21	18	13	5.2	4.3	2.9	12
22	13	18	17	22	23	21	18	13	4.8	4.5	2.9	11
23	13	17	18	22	23	21	18	13	5.0	4.0	3.8	11
24	15	17	18	22	24	20	17	12	4.3	3.8	5.4	11
25	15	17	11	22	24	21	17	7.5	4.2	2.7	4.4	11
26	15	17	12	22	24	21	17	6.0	4.0	2.7	4.2	10
27	15	17	12	22	24	21	16	6.0	3.9	2.8	4.2	10
28	15	16	13	22	24	21	16	6.0	3.7	2.5	4.3	10
29	15	17	14	22	-----	21	16	7.3	3.2	2.4	5.0	10
30	15	17	14	22	-----	21	15	7.0	3.5	2.4	3.7	10
31	15	-----	14	21	-----	20	-----	5.8	-----	2.4	3.6	-----
TOTAL	432	503	499	517	592	762	606	326.7	146.0	96.0	104.2	260.2
MEAN	13.9	16.8	16.1	16.7	21.1	24.6	20.2	10.5	4.87	3.10	3.36	8.67
MAX	15	19	19	25	24	40	27	15	7.4	4.5	5.4	12
MIN	13	11	11	10	19	20	15	5.8	3.2	2.3	2.4	3.5
AC-FT	857	998	990	1,030	1,170	1,510	1,200	648	290	190	207	516

CAL YR 1973 TOTAL 5,649.0 MEAN 15.5 MAX 43 MIN 2.9 AC-FT 11,200
WTR YR 1974 TOTAL 4,844.1 MEAN 13.3 MAX 40 MIN 2.3 AC-FT 9,610

PEAK DISCHARGE (BASE, 35 FT³/S)

NOTE.--No gage-height record Jan. 2-24, Jan. 27 to Mar. 6, Mar. 10-12, Mar. 26 to Apr. 3.

DATE TIME G.H.T. DISCHARGE
3- 5 unknown 4.00 76

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 (110 m) downstream from bridge on State Highway 125, 0.8 mi (1.3 km) upstream from Camp Creek, 4.2 mi (6.8 km) northwest of Northgate, and 4.4 mi (7.1 km) south of Colorado-Wyoming State line.

DRAINAGE AREA.--1,431 mi² (3,706 km²).

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 (2,380.607 m) 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 mi (1.3 km) downstream at datum 3.36 ft (1.024 m) lower.

AVERAGE DISCHARGE.--59 years, 436 ft³/s (12.35 m³/s), 315,900 acre-ft/yr (390 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 4,200 ft³/s (119 m³/s) June 18, from comparison with downstream station; minimum daily, 78 ft³/s (2.21 m³/s) Sept. 28.

Period of record: Maximum discharge, 6,720 ft³/s (190 m³/s) June 11, 1923, gage height, 6.24 ft (1.902 m), site and datum then in use; maximum gage height recorded, 8.84 ft (2.694 m) Apr. 9, 1962 (ice jam); minimum daily discharge, 19 ft³/s (0.54 m³/s) July 17-19, 1934.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Diversions for irrigation of about 130,000 acres (526 km²) of hay meadows above station. Transbasin diversions above station to Cache la Poudre River basin (see elsewhere in this report). 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	160	110	110	100	100	450	1,660	1,220	1,200	413	96
2	172	169	110	110	100	100	400	1,630	1,100	1,000	364	95
3	163	267	110	110	100	100	360	1,800	1,050	920	342	104
4	158	256	110	110	100	100	340	1,860	1,050	820	328	111
5	154	385	110	110	100	100	300	1,860	1,030	720	309	107
6	151	529	110	110	100	100	280	1,960	1,450	640	289	99
7	151	585	110	110	100	100	290	2,070	2,140	600	274	91
8	146	351	110	110	100	100	300	2,170	2,650	540	261	88
9	142	369	110	110	100	100	300	2,250	3,200	500	260	92
10	150	362	110	110	100	100	300	2,410	3,600	520	290	95
11	177	357	110	110	100	100	330	2,730	3,400	540	305	87
12	194	355	110	110	100	100	370	2,730	3,000	480	269	97
13	193	399	110	110	100	100	300	2,330	2,800	420	242	127
14	176	429	110	110	100	110	288	2,150	3,000	380	229	139
15	183	311	110	110	100	110	304	1,960	3,300	340	209	145
16	183	228	110	110	100	120	322	1,490	3,600	400	194	140
17	171	200	110	110	100	130	490	1,280	3,800	506	183	131
18	162	186	110	110	100	140	573	1,250	3,900	531	174	127
19	154	160	110	110	100	150	1,040	1,220	3,800	818	164	124
20	148	150	110	110	100	170	1,270	1,290	3,800	663	158	111
21	143	140	110	110	100	190	1,260	1,450	3,600	639	153	103
22	139	130	110	110	100	210	1,150	1,360	3,400	626	158	98
23	135	120	110	110	100	250	1,120	1,080	3,200	794	155	94
24	129	120	110	110	100	280	1,350	847	2,900	821	148	89
25	124	110	110	100	100	320	1,650	764	2,600	867	138	86
26	131	110	110	100	100	360	2,130	737	2,200	752	129	82
27	120	110	110	100	100	400	2,360	788	2,000	597	123	79
28	120	110	110	100	100	440	2,260	999	1,800	506	118	78
29	140	110	110	100	-----	480	2,050	1,140	1,600	493	112	79
30	143	110	110	100	-----	480	1,850	1,210	1,400	495	106	79
31	151	-----	110	100	-----	480	-----	1,240	-----	470	101	-----
TOTAL	4,785	7,372	3,410	3,340	2,800	6,120	25,687	49,754	77,590	19,598	6,698	3,073
MEAN	154	246	110	108	100	197	856	1,605	2,586	632	216	102
MAX	194	585	110	110	100	480	2,360	2,730	3,900	1,200	413	145
MIN	120	110	110	100	100	100	280	737	1,030	340	101	78
AC-FT	9,490	14,620	6,760	6,620	5,550	12,140	50,950	98,690	153,900	38,870	13,290	6,100

CAL YR 1973 TOTAL 205,336 MFAN 563 MAX 3,790 MIN 90 AC-FT 407,300
WTR YR 1974 TOTAL 210,227 MFAN 576 MAX 3,900 MIN 78 AC-FT 417,000

NOTE.--No gage-height record June 9 to July 16.

PLATTE RIVER BASIN

103

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 (3.0 m) downstream from logging road bridge, 0.7 mi (1.1 km) downstream from Lincoln Creek, 1.6 mi (2.6 km) upstream from South Brush Creek, and 16 mi (26 km) southeast of Saratoga.

DRAINAGE AREA.--37.4 mi² (96.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,020 ft (2,444 m), from topographic map. Prior to June 17, 1971, at site 110 ft (34 m) downstream at different datum. June 17 to Sept. 21, 1971, at site 10 ft (3 m) downstream at present datum.

AVERAGE DISCHARGE.--14 years, 52.8 ft³/s (1.495 m³/s), 38,250 acre-ft/yr (47.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 680 ft³/s (19.3 m³/s) May 29, gage height, 4.03 ft (1.228 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Jan. 2.

Period of record: Maximum discharge, 1,120 ft³/s (31.7 m³/s) June 7, 1964, gage height, 5.75 ft (1.753 m), site and datum then in use, from rating curve extended above 480 ft³/s (13.6 m³/s); minimum daily, 5.0 ft³/s (0.14 m³/s) 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 CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.0	13	8.0	11	14	12	58	424	98	15	8.4
2	12	10	12	7.0	11	13	12	60	404	87	15	8.7
3	11	13	11	7.5	10	12	12	54	396	78	14	15
4	11	15	10	8.0	10	11	12	61	364	66	14	15
5	11	16	10	9.0	10	11	12	92	452	58	14	15
6	11	17	10	9.0	9.5	12	11	120	456	58	14	14
7	11	18	11	9.5	9.0	13	10	152	276	62	13	13
8	11	19	11	9.0	9.0	13	11	174	201	56	14	12
9	11	18	10	9.0	9.5	13	12	234	216	51	15	12
10	12	17	10	9.0	10	13	12	243	219	52	20	10
11	11	18	11	9.5	10	12	12	186	231	40	16	9.7
12	11	18	11	10	10	13	12	165	269	35	13	12
13	12	18	11	10	10	13	12	183	350	31	13	12
14	13	18	11	10	10	13	11	152	412	28	12	13
15	12	18	10	10	11	13	10	138	432	29	11	12
16	11	17	10	11	11	14	10	150	456	66	11	11
17	11	17	10	12	11	14	11	180	400	45	11	10
18	11	16	11	11	12	12	12	234	356	38	10	9.7
19	10	15	10	10	12	11	13	325	350	31	10	9.4
20	10	14	9.5	9.5	11	10	14	346	346	27	10	9.0
21	10	13	10	9.0	10	9.5	14	252	314	30	9.7	9.0
22	10	14	10	8.5	10	9.5	15	228	272	26	9.7	9.0
23	10	13	11	9.0	10	9.5	17	252	240	23	9.0	9.0
24	10	13	10	9.0	11	10	22	308	222	26	9.0	9.0
25	10	13	10	9.5	12	11	35	339	204	28	8.7	8.7
26	10	13	10	10	13	12	52	388	192	20	8.4	8.4
27	9.7	12	10	10	13	13	51	448	165	19	8.7	9.0
28	10	12	11	10	13	13	40	494	145	18	8.7	9.7
29	9.7	13	10	11	-----	12	38	530	125	19	8.7	10
30	9.4	14	10	12	-----	12	45	502	115	18	8.7	9.4
31	9.0	-----	9.0	11	-----	12	-----	436	-----	16	8.4	-----
TOTAL	333.8	451.0	323.5	297.0	299.0	373.5	562	7,484	9,004	1,279	362.7	322.1
MEAN	10.8	15.0	10.4	9.58	10.7	12.0	18.7	241	300	41.3	11.7	10.7
MAX	13	19	13	12	13	14	52	530	456	98	20	15
MIN	9.0	9.0	9.0	7.0	9.0	9.5	10	54	115	16	8.4	8.4
AC-FT	662	895	642	589	593	741	1,110	14,840	17,860	2,540	719	639

CAL YR 1973 TOTAL 21,782.3 MEAN 59.7 MAX 597 MIN 9.0 AC-FT 43,210

WTR YR 1974 TOTAL 21,091.6 MEAN 57.8 MAX 530 MIN 7.0 AC-FT 41,840

PEAK DISCHARGE (BASE, 350 FT³/S)

NOTE.--No gage-height record Dec. 3 to Mar. 18.

DATE	TIME	G.HT.	DISCHARGE
5-29	2000	4.03	680
6-16	0100	3.70	525

PLATTE RIVER BASIN

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 (91 m) upstream from culvert on State Highway 130, 1.6 mi (2.6 km) upstream from North Brush Creek, and 17 mi (27.4 km) southeast of Saratoga.

DRAINAGE AREA.--22.8 mi² (59.1 km²).

PERIOD OF RECORD.--May 1960 to current year (no winter records since 1972).

GAGE.--Water-stage recorder. Altitude of gage is 8,100 ft (2,469 m), from topographic map.

AVERAGE DISCHARGE.--12 years (1960-72), 31.8 ft³/s (0.901 m³/s), 23,040 acre-ft/yr (28.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 325 ft³/s (9.20 m³/s) May 27, gage height, 3.49 ft (1.064 m); minimum daily during period of operation, 3.4 ft³/s (0.096 m³/s) Aug. 5.

Period of record: Maximum discharge, 559 ft³/s (15.8 m³/s) June 10, 1965, gage height, 4.09 ft (1.247 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Aug. 15-20, 28, 29, 1963.

REMARKS.--Records poor. Transbasin diversion 0.3 mi (0.5 km) above station for irrigation in North Brush Creek basin.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								30	224	61	11	4.2
2								30	224	52	8.5	4.3
3								25	237	47	7.9	4.3
4								35	237	47	5.5	4.3
5								45	221	48	3.4	4.2
6								65	210	60	5.0	4.5
7								80	110	68	8.0	4.3
8								90	83	47	10	4.3
9								120	76	31	13	4.5
10								130	68	38	16	4.3
11								95	74	46	13	4.5
12								85	89	41	10	5.9
13								95	170	40	9.4	5.5
14								95	200	40	8.2	5.5
15								70	230	43	7.9	5.0
16								75	260	74	8.2	5.0
17								85	240	58	7.9	4.5
18								110	220	46	7.6	4.5
19								140	220	38	7.3	4.5
20								170	210	43	6.8	4.5
21								140	200	56	7.3	4.5
22								130	190	40	7.0	4.5
23								140	180	23	6.8	4.5
24								150	169	16	6.3	5.0
25								170	146	14	5.7	5.0
26								170	119	11	5.9	5.0
27								260	99	8.8	5.2	5.0
28								277	84	8.5	4.8	5.5
29								288	76	8.2	4.5	5.5
30								284	71	10	4.2	5.5
31		-----			-----		-----	266	-----	11	4.0	-----
TOTAL								3,945	4,937	1,174.5	236.3	142.6
MEAN								127	165	37.9	7.62	4.75
MAX								288	260	74	16	5.9
MIN								25	68	8.2	3.4	4.2
AC-FT								7,820	9,790	2,330	469	283

NOTE.--No gage-height record June 13-23.

PLATTE RIVER BASIN

105

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 mi (1.0 km) upstream from Hog Park Creek and 13 mi (21 km) south of Encampment.

DRAINAGE AREA.--72.7 mi² (188.3 km²). Area at mouth, 265 mi² (686 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,270 ft (2,521 m), from topographic map.

AVERAGE DISCHARGE.--10 years, 112 ft³/s (3.172 m³/s), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,300 ft³/s (36.8 m³/s) June 5, gage height, 4.88 ft (1.487 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 3.

Period of record: Maximum discharge, 1,680 ft³/s (47.6 m³/s) about June 13, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 9.5 ft³/s (0.27 m³/s) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	20	17	14	15	18	19	105	908	310	60	26
2	28	19	17	13	15	18	19	120	902	270	55	25
3	26	18	17	12	15	18	19	130	908	235	55	24
4	25	18	17	13	15	18	19	150	908	205	50	24
5	24	19	17	13	15	18	20	180	1,060	190	50	23
6	24	21	17	13	15	18	20	220	980	180	45	24
7	23	23	16	13	15	18	20	290	824	170	40	25
8	22	24	16	13	15	18	21	370	686	160	40	24
9	22	25	16	13	15	18	22	440	660	145	45	24
10	24	25	16	13	15	17	24	400	655	140	50	24
11	24	23	16	13	15	17	21	360	630	130	45	27
12	24	22	16	14	15	17	20	320	660	125	40	30
13	26	22	16	14	15	17	19	350	788	115	35	35
14	28	22	16	14	15	17	18	300	914	105	35	30
15	27	21	15	14	16	18	19	350	998	130	30	30
16	26	20	15	14	16	18	20	400	1,030	159	30	29
17	24	20	15	14	16	19	22	440	1,050	152	30	28
18	23	20	15	14	16	18	24	500	1,040	128	30	27
19	22	20	15	14	16	18	24	580	1,030	138	28	26
20	22	20	14	14	15	18	23	620	1,020	132	26	24
21	21	19	14	14	15	18	25	500	920	127	32	23
22	20	18	14	14	15	17	27	430	820	120	32	22
23	20	17	14	14	15	17	30	450	720	140	32	22
24	21	17	15	14	16	17	35	500	640	120	28	22
25	20	17	15	14	16	17	46	560	580	100	26	22
26	22	17	15	14	17	18	61	680	550	85	25	21
27	19	17	15	14	17	18	89	840	500	75	24	23
28	24	16	15	14	18	19	80	930	440	95	23	24
29	22	17	15	15	-----	19	80	1,050	390	85	23	24
30	22	17	14	15	-----	19	90	992	350	75	25	22
31	22	-----	14	15	-----	19	-----	938	-----	65	26	-----
TOTAL	727	594	479	426	434	554	976	14,495	23,561	4,406	1,115	754
MEAN	23.5	19.8	15.5	13.7	15.5	17.9	32.5	468	785	142	36.0	25.1
MAX	30	25	17	15	18	19	90	1,050	1,060	310	60	35
MIN	19	16	14	12	15	17	18	105	350	65	23	21
AC-FT	1,440	1,180	950	845	861	1,100	1,940	28,750	46,730	8,740	2,210	1,500

CAL YR 1973 TOTAL 36,525 MEAN 100 MAX 825 MIN 13 AC-FT 72,450
WTR YR 1974 TOTAL 48,521 MEAN 133 MAX 1,060 MIN 12 AC-FT 96,240

PEAK DISCHARGE (BASE, 750 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
6- 5	2130	4.88	1,300
6-17	2130	4.73	1,190

NOTE.--No gage-height record Feb. 27 to Apr. 8, Apr. 28 to May 29, June 21 to July 15, July 23 to Aug. 20, Aug. 24 to Sept. 20.

PLATTE RIVER BASIN

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 mi (0.8 km) upstream from mouth and 8.0 mi (12.9 km) northeast of Encampment.

DRAINAGE AREA.--265 mi² (686 km²).

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 (2,124 m), from topographic map. Prior to June 28, 1961, water-stage recorder at site 660 ft (201 m) upstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--34 years, 239 ft³/s (6.77 m³/s), 173,200 acre-ft/yr (214 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,070 ft³/s (86.9 m³/s) June 6, gage height, 6.60 ft (2.012 m); minimum daily, 36 ft³/s (1.02 m³/s) Aug. 30.

Period of record: Maximum discharge, 4,510 ft³/s (128 m³/s) June 1, 1943, gage height, 8.25 ft (2.515 m), site and datum then in use; maximum gage height, 8.33 ft (2.539 m) June 4, 1952, site and datum then in use; minimum daily discharge, 5.2 ft³/s (0.15 m³/s) 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 (0.493 hm³). Slight regulation by Hog Park Creek Reservoir, capacity, about 2,970 acre-ft (3.66 hm³). Diversions for irrigation of about 8,800 acres (35.6 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	63	88	62	62	74	71	321	1,930	716	108	42
2	67	55	86	57	62	72	70	403	1,880	520	97	42
3	66	55	84	54	61	70	69	411	1,880	530	92	42
4	66	52	82	54	60	69	70	453	1,850	461	90	41
5	65	52	80	54	59	70	71	615	2,150	415	84	40
6	65	75	78	54	58	73	73	863	2,620	379	80	38
7	64	106	77	55	57	73	75	892	1,960	358	63	41
8	61	125	76	55	57	73	77	1,060	1,640	346	63	38
9	62	122	75	54	58	69	80	1,280	1,470	313	64	39
10	63	110	74	55	58	67	81	1,450	1,420	269	75	39
11	65	106	74	56	59	67	80	1,190	1,280	248	66	39
12	66	106	73	57	60	66	80	1,080	1,260	231	61	65
13	65	110	73	58	60	69	80	1,170	1,460	212	61	79
14	63	112	72	59	61	69	81	995	1,800	184	59	68
15	64	90	72	60	62	71	84	853	2,090	172	56	64
16	63	92	71	60	62	71	87	942	2,320	228	50	60
17	61	97	71	60	62	78	90	1,080	2,330	228	46	56
18	61	95	70	59	61	82	95	1,190	2,270	205	48	50
19	60	101	69	58	60	74	97	1,480	2,180	196	44	50
20	57	108	68	58	60	71	97	1,620	2,080	187	42	49
21	56	101	68	57	60	73	98	1,240	2,000	199	41	47
22	56	95	68	57	60	66	103	983	1,710	199	49	47
23	54	91	68	57	62	65	115	943	1,600	196	53	46
24	53	88	66	58	64	65	138	1,010	1,490	251	53	48
25	53	87	65	59	68	67	187	1,190	1,370	196	47	49
26	53	86	64	60	71	70	272	1,380	1,260	155	40	48
27	50	88	63	60	74	71	326	1,720	1,140	138	39	50
28	53	89	63	61	75	71	305	1,990	1,000	118	38	53
29	55	90	63	62	-----	71	286	2,190	883	153	38	51
30	63	90	64	62	-----	72	276	2,300	782	145	35	50
31	64	-----	63	62	-----	73	-----	2,090	-----	118	42	-----
TOTAL	1,882	2,737	2,228	1,794	1,733	2,192	3,714	36,413	51,105	8,376	1,925	1,471
MEAN	60.7	91.2	71.9	57.9	61.9	70.7	124	1,175	1,704	270	58.9	49.0
MAX	68	125	88	62	75	82	326	2,300	2,620	716	108	79
MIN	50	52	63	54	57	65	59	321	782	118	36	38
AC-FT	3,730	5,430	4,420	3,560	3,440	4,350	7,370	72,230	101,400	16,610	3,620	2,920

CAL YR 1973 TOTAL 93,045 MEAN 255 MAX 2,240 MIN 40 AC-FT 184,600
WTR YR 1974 TOTAL 115,470 MEAN 316 MAX 2,620 MIN 35 AC-FT 229,000

PEAK DISCHARGE (BASE, 1,700 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
6-6	0300	6.60	3,070
6-17	0300	6.01	2,540

PLATTE RIVER BASIN

107

06628800 SAGE CREEK NEAR SARATOGA, WYO.

LOCATION.--Lat 41°34'53", long 106°59'17", in SE4NE4NW4 sec.32, T.19 N., R.85 W., Carbon County, on right bank 300 ft (91 m) upstream from private farm bridge, 1.1 mi (1.8 km) downstream from Little Sage Creek, 3.6 mi (5.8 km) upstream from mouth, and 13 mi (21 km) northwest of Saratoga.

DRAINAGE AREA.--263 mi² (681 km²).

PERIOD OF RECORD.--May 1973 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (2,027 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 406 ft³/s (11.5 m³/s) July 29, gage height, 9.77 ft (2.978 m); minimum daily during period of operation, 1.3 ft³/s (0.037 m³/s) Sept. 11.

Period of record: Maximum discharge, 406 ft³/s (11.5 m³/s) July 29, 1974, gage height, 9.77 ft (2.978 m); minimum daily during periods of operation, 1.3 ft³/s (0.037 m³/s) Sept. 11, 1974.

Flood of June 5, 1972, reached a discharge of 1,800 ft³/s (51.0 m³/s), gage height, 11.71 ft (3.569 m) from floodmarks, by slope-area measurement of peak flow.

REMARKS.--Records fair. Several small reservoirs above station, total capacity, about 3,000 acre-ft (3.70 hm³). Diversions for irrigation of about 1,560 acres (6.31 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							45	60	53	13	7.6	1.8
2							43	80	49	11	5.4	1.8
3							29	90	45	11	4.8	1.9
4							25	60	41	11	4.0	2.1
5							19	70	40	12	3.4	2.1
6							19	80	54	11	3.2	1.9
7							19	90	59	10	3.1	1.6
8							17	105	57	10	3.0	1.4
9							20	120	83	10	3.0	1.4
10							21	121	97	9.2	7.6	1.5
11							41	95	72	8.5	4.8	1.3
12							30	90	59	8.0	3.5	3.6
13							22	77	43	7.5	3.0	3.3
14							19	67	38	7.2	2.7	3.1
15							17	65	37	7.0	2.6	2.3
16							22	62	39	7.2	2.4	2.0
17							22	63	38	7.2	2.0	2.2
18							45	70	37	11	1.7	2.2
19							59	74	34	9.4	1.8	2.3
20							49	68	31	8.2	1.8	2.3
21							26	62	28	16	1.8	2.3
22							21	64	27	8.8	2.0	2.0
23							41	57	26	7.0	2.1	2.2
24							55	55	25	8.9	2.0	1.9
25							70	54	22	25	2.0	2.0
26							90	55	19	7.4	1.8	1.8
27							80	58	17	5.7	1.8	1.9
28							50	62	16	6.2	1.8	1.9
29							40	62	16	205	1.8	2.3
30							45	58	14	26	1.9	2.6
31								57		16	1.9	
TOTAL							1,140	2,252	1,216	521.4	92.3	63.0
MEAN							38.0	72.6	40.5	16.8	2.98	2.10
MAX							90	121	97	205	7.6	3.6
MIN							17	54	14	5.7	1.7	1.3
AC-FT							2,260	4,470	2,410	1,030	183	125

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 (72 m) downstream from Lone Tree Creek, 1,000 ft (305 m) upstream from Brush Creek, 12 mi (19 km) southwest of Elk Mountain, and 14 mi (23 km) northeast of Saratoga.

DRAINAGE AREA.--91.5 mi² (237.0 km²). Area at mouth, 279 mi² (723 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft (2,204 m), from topographic map. Prior to Oct. 6, 1966, 15 ft (5 m) downstream at present datum.

AVERAGE DISCHARGE.--17 years, 41.1 ft³/s (1.164 m³/s), 29,780 acre-ft/yr (36.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 841 ft³/s (23.8 m³/s) June 9, gage height, 5.17 ft (1.576 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Sept. 11.

Period of record: Maximum discharge, 1,180 ft³/s (33.4 m³/s) May 9, 1973, gage height, 6.27 ft (1.911 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 11, 12, 1959.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 6,300 acres (25.5 km²) above station. Diversion to Kerr ditch 7.5 mi (12.1 km) upstream.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	22	12	16	15	53	298	206	54	23	7.9
2	18	19	22	13	15	16	47	356	194	54	23	8.6
3	18	22	22	12	14	16	42	282	182	54	21	9.5
4	18	20	22	13	14	15	40	291	162	56	20	9.1
5	17	21	22	14	14	16	27	216	245	56	19	8.2
6	17	23	21	14	12	17	22	348	490	54	18	9.1
7	16	23	21	15	13	16	21	372	310	52	18	7.6
8	16	31	20	15	12	18	21	420	277	50	18	7.2
9	17	35	16	14	12	18	20	582	469	50	18	6.9
10	20	20	19	14	13	18	22	649	426	48	18	6.9
11	20	26	19	15	12	19	25	367	317	46	18	6.6
12	20	28	20	16	13	20	26	319	220	44	17	10
13	19	20	20	16	12	20	23	352	180	42	17	13
14	19	21	18	17	12	20	30	238	160	40	16	13
15	19	27	17	17	12	21	31	188	151	38	15	12
16	18	26	16	18	12	22	22	190	186	38	14	11
17	17	27	15	17	12	22	45	242	170	39	14	10
18	17	25	15	16	14	23	70	291	134	35	13	9.5
19	17	23	15	15	13	23	104	373	108	39	13	9.5
20	17	23	15	15	13	25	122	399	102	39	13	9.5
21	18	22	15	14	12	28	89	240	92	32	12	9.5
22	17	23	16	15	12	21	89	196	84	33	12	10
23	16	23	16	15	12	33	118	226	78	30	12	9.5
24	15	22	16	15	12	35	216	264	74	31	12	9.1
25	15	21	15	15	13	37	400	281	70	39	11	9.1
26	16	21	14	16	14	27	485	291	66	29	12	10
27	15	21	14	16	14	28	428	335	64	26	12	10
28	16	20	15	16	15	40	252	338	60	25	11	12
29	17	20	16	17	-----	42	206	314	58	27	9.5	12
30	18	22	15	17	-----	49	220	293	56	26	8.6	11
31	18	-----	14	16	-----	59	-----	238	-----	24	8.6	-----
TOTAL	540	748	547	471	371	810	3,417	9,880	5,391	1,250	466.7	287.3
MEAN	17.4	24.9	17.6	15.2	13.3	26.1	114	319	180	40.3	15.1	9.58
MAX	20	38	23	18	16	59	485	648	490	56	23	13
MIN	15	19	14	12	12	15	30	188	56	24	8.6	6.6
AC-FT	1,070	1,480	1,080	934	736	1,610	6,780	19,600	10,690	2,480	926	570

CAL YR 1973 TOTAL 27,762.0 MEAN 76.1 MAX 608 MIN 7.0 AC-FT 55,070
WTP YR 1974 TOTAL 24,179.0 MEAN 66.2 MAX 648 MIN 6.6 AC-FT 47,960

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-25	2200	4.54	660	5-28	0300	3.45	402
5-10	0100	4.94	772	6- 6	0600	4.10	550
5-20	0430	3.85	490	6- 9	2100	5.17	841

PLATTE RIVER BASIN

109

06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WYO.

LOCATION.--Lat 41°52'20", long 107°03'25", in SW¼SW¼ sec.13, T.22 N., R.86 W., Carbon County, on left bank 6.5 mi (10.5 km) northeast of Sinclair and 14 mi (22.5 km) upstream from high-water line of Seminoe Reservoir at elevation 6,357 ft (1,938 m).

DRAINAGE AREA.--8,134 mi² (21,067 km²), of which 4,073 mi² (10,549 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--July 1939 to current year. Prior to October 1943, published as "near Parco."

GAGE.--Water-stage recorder. Datum of gage is 6,400.75 ft (1,950.949 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 1,110 ft³/s (31.44 m³/s), 804,200 acre-ft/yr (992 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,930 ft³/s (225 m³/s) June 10, gage height, 7.20 ft (2.195 m); minimum daily, 205 ft³/s (5.81 m³/s) Sept. 10.

Period of record: Maximum discharge, 14,500 ft³/s (411 m³/s) June 15, 1957, gage height, 9.72 ft (2.963 m); minimum daily, 70 ft³/s (1.98 m³/s) Sept. 17, 1944.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 215,000 acres (870 km²) above station. Transbasin diversions above station. Water-quality records for the current year are published in Part 2 of this report.

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

REVISIONS.--WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	437	402	400	330	370	430	1,480	3,340	6,590	2,210	876	220
2	430	423	390	300	380	440	1,520	3,420	6,150	2,020	804	225
3	409	400	380	290	390	430	1,610	3,610	5,810	1,800	732	225
4	395	400	360	310	380	420	1,370	3,750	5,570	1,580	660	225
5	381	340	350	320	380	430	1,220	3,990	5,450	1,430	636	220
6	381	360	340	340	370	450	1,050	4,490	6,630	1,320	628	225
7	374	508	340	350	360	490	1,180	4,910	7,730	1,240	580	225
8	367	705	350	340	350	540	1,150	5,350	7,390	1,210	540	220
9	360	714	350	330	360	600	1,130	6,110	7,650	1,240	532	210
10	367	804	340	330	370	620	1,140	7,150	7,670	1,220	540	205
11	374	768	330	330	370	660	1,270	7,710	7,270	1,130	596	215
12	395	732	330	340	370	700	1,350	7,170	6,110	980	604	230
13	423	732	330	340	370	740	1,280	6,650	5,510	985	564	235
14	430	759	320	340	370	780	1,150	6,450	5,470	922	508	275
15	437	813	320	350	370	820	1,070	5,650	5,710	732	465	282
16	423	732	310	360	380	867	1,010	5,170	6,490	714	437	294
17	423	604	320	370	380	903	1,050	4,870	7,290	930	409	306
18	423	532	310	360	390	1,040	1,200	4,910	7,470	1,180	374	294
19	409	580	300	350	380	1,320	1,670	5,370	7,370	1,190	360	282
20	395	560	290	350	360	1,240	2,100	6,130	7,270	1,340	342	275
21	388	540	300	340	360	1,320	2,280	6,330	6,950	1,320	330	264
22	381	500	310	340	360	1,400	2,150	5,430	6,370	1,310	318	264
23	381	460	330	350	370	1,220	2,050	4,670	5,730	1,320	312	258
24	367	430	340	360	370	1,120	2,120	4,250	5,150	1,310	300	252
25	360	400	340	360	380	921	2,550	4,170	4,610	1,450	288	252
26	360	390	330	370	390	930	3,270	4,330	4,090	1,320	276	252
27	354	380	340	370	400	921	4,310	4,830	3,570	1,210	264	252
28	360	390	360	370	420	960	4,510	5,670	3,140	1,030	252	259
29	354	380	370	360	-----	1,030	4,030	6,450	2,790	1,100	240	264
30	360	390	370	360	-----	1,120	3,590	7,070	2,480	1,140	235	264
31	381	-----	360	360	-----	1,280	-----	7,130	-----	960	230	-----
TOTAL	12,079	16,128	10,510	10,670	10,500	26,142	56,910	166,530	177,480	38,543	14,232	7,470
MEAN	390	538	339	344	375	843	1,897	5,372	5,915	1,247	459	249
MAX	437	813	400	370	420	1,400	4,510	7,710	7,730	2,210	876	305
MIN	354	340	290	290	350	420	1,010	3,340	2,480	714	230	205
AC-FT	23,960	31,990	20,850	21,160	20,830	51,850	112,900	330,300	352,000	76,650	28,230	14,820

CAL YR 1973 TOTAL 571,491 MEAN 1,566 MAX 10,200 MIN 290 AC-FT 1,134,000
 WTR YR 1974 TOTAL 547,294 MEAN 1,499 MAX 7,730 MIN 205 AC-FT 1,086,000

PLATTE RIVER BASIN

06630440 MEDICINE BOW RIVER AT BOW RANGER STATION, NEAR ELK MOUNTAIN, WYO.

LOCATION.--Lat 41°31'12", long 106°22'56", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.18 N., R.80 W., Carbon County, Medicine Bow National Forest, on right bank 0.5 mi (0.8 km) southeast of Bow ranger station, 4.0 mi (6.4 km) upstream from East Fork Medicine Bow River, and 11.5 mi (18.5 km) south of Elk Mountain.

DRAINAGE AREA.--28.7 mi² (74.3 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (2,563 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,120 ft³/s (31.7 m³/s) June 21; gage height, 2.88 ft (0.878 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Mar. 25-27.

Period of record: Maximum discharge, 1,120 ft³/s (31.7 m³/s) June 21, 1974; gage height, 2.88 ft (0.878 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Mar. 25-27, 1974.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.3	8.8	8.0	8.6	5.0	5.5	16	386	346	27	8.5
2	12	10	8.8	8.0	8.5	5.5	5.0	24	398	306	25	8.3
3	12	12	8.5	7.5	8.5	5.5	4.5	34	410	292	24	8.3
4	12	13	9.0	9.0	8.8	5.5	4.5	35	402	233	22	8.3
5	11	13	9.0	9.5	8.8	5.5	5.0	46	422	208	22	8.0
6	10	13	9.0	9.9	8.5	5.5	5.0	68	350	175	20	7.8
7	9.9	12	8.8	9.9	8.5	5.5	5.0	96	258	163	19	7.6
8	9.6	11	8.8	10	7.5	5.5	5.0	127	193	157	19	7.1
9	9.9	11	8.5	10	7.0	5.5	6.0	181	190	142	21	7.1
10	10	11	8.5	10	7.5	5.5	6.0	202	169	142	28	6.9
11	10	11	8.5	9.6	7.5	5.5	6.0	172	178	132	24	7.1
12	9.6	11	8.3	9.6	7.5	5.5	5.0	148	258	119	19	8.5
13	11	11	8.5	9.3	7.5	5.5	5.0	157	346	103	18	9.6
14	12	11	8.5	9.0	7.5	5.5	5.0	135	470	94	17	9.3
15	11	11	9.0	9.0	7.5	5.5	5.0	108	614	94	16	8.8
16	10	11	9.9	8.8	7.5	6.0	6.0	117	806	196	15	8.3
17	9.9	11	9.9	8.8	7.5	6.0	6.5	157	798	148	14	7.6
18	9.3	10	9.6	8.8	7.5	6.0	6.5	196	713	122	14	7.3
19	9.0	10	9.3	8.8	7.5	6.0	6.0	261	748	103	14	7.1
20	9.0	10	10	8.8	7.0	5.5	6.0	272	713	121	13	7.1
21	8.5	10	9.9	8.8	6.5	5.0	6.0	250	730	193	12	7.1
22	8.3	10	9.3	8.8	6.0	5.0	6.0	212	614	110	12	6.9
23	8.0	10	9.0	8.8	5.5	4.5	6.5	222	590	78	11	6.9
24	8.0	10	9.0	9.0	5.0	4.5	7.0	250	584	73	10	6.7
25	7.1	10	9.3	9.0	4.5	4.0	8.0	286	566	76	9.9	6.7
26	8.8	9.9	9.0	8.8	4.5	4.0	8.5	326	520	53	9.6	6.5
27	7.8	9.6	9.6	8.8	4.5	4.0	9.0	374	500	44	9.6	6.7
28	8.5	9.3	9.6	8.8	5.0	4.5	9.5	418	435	38	9.3	7.3
29	7.8	9.3	9.3	8.5	-----	5.0	10	548	382	37	9.3	7.6
30	8.3	9.3	9.3	8.8	-----	5.5	12	520	366	35	9.0	6.9
31	9.9	-----	9.0	9.0	-----	6.0	-----	414	-----	32	9.0	-----
TOTAL	302.2	319.7	281.5	279.4	198.4	163.5	191.0	6,372	14,109	4,165	501.7	227.9
MEAN	9.75	10.7	9.08	9.01	7.09	5.27	6.37	206	470	134	16.2	7.60
MAX	14	13	10	10	8.8	6.0	12	548	806	346	28	9.6
MIN	7.1	9.3	8.3	7.5	4.5	4.0	4.5	16	169	32	9.0	6.5
AC-FT	599	634	558	554	394	324	379	12,640	27,990	8,260	995	452

CAL YR 1973 TOTAL 20,464.6 MEAN 56.1 MAX 563 MIN 5.8 AC-FT 40,590
 WTR YR 1974 TOTAL 27,111.3 MEAN 74.3 MAX 806 MIN 4.0 AC-FT 53,780

PLATTE RIVER BASIN

111

06630480 EAST FORK MEDICINE BOW RIVER NEAR ELK MOUNTAIN, WYO.

LOCATION.--Lat 41°32'55", long 106°23'46", in SE¼SW¼NW¼ sec.9, T.18 N., R.80 W., Carbon County, on right bank 15 ft (5 m) downstream from abandoned bridge, 0.2 mi (0.3 km) downstream from county road, 0.7 mi (1.1 km) upstream from mouth, 1.7 mi (2.7 km) north of Bow ranger station, and 9.5 mi (15.3 km) south of Elk Mountain.

DRAINAGE AREA.--17.8 mi² (46.1 km²), revised.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,020 ft (2,444 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 620 ft³/s (17.6 m³/s) about May 28, gage height, 3.5 ft (1.07 m) from floodmarks; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 24, 25.

Period of record: Maximum discharge, 620 ft³/s (17.6 m³/s) about May 28, 1974, gage height, 3.5 ft (1.07 m) from floodmarks; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 24, 25, 1974.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	4.5	4.4	3.4	3.0	4.2	33	260	28	6.7	2.5
2	3.8	3.7	4.5	4.2	3.4	3.1	4.4	40	290	26	6.4	2.5
3	3.6	4.8	4.5	4.2	3.4	3.0	4.3	38	290	23	6.2	2.4
4	3.6	5.8	4.4	4.1	3.6	2.0	4.2	41	300	20	5.8	2.5
5	3.6	6.0	4.4	4.1	3.3	3.1	4.2	54	160	18	5.6	2.6
6	3.3	5.8	4.4	4.1	3.3	3.3	4.4	78	95	17	5.6	2.5
7	3.4	5.5	4.4	4.1	3.4	3.2	4.8	96	75	17	5.6	2.5
8	3.4	6.0	4.2	4.1	3.4	3.2	5.3	120	75	16	5.6	2.6
9	3.6	6.7	4.2	4.1	3.3	3.2	6.1	180	85	16	5.8	2.6
10	3.7	6.2	4.2	4.1	3.2	3.2	7.0	169	115	16	6.4	2.5
11	3.8	6.2	4.2	4.1	3.1	3.2	7.5	118	150	14	5.8	2.5
12	3.8	7.0	4.1	3.9	3.2	3.2	8.3	116	143	13	4.8	2.7
13	3.8	7.7	4.1	3.9	2.2	3.2	8.3	124	139	12	5.0	2.7
14	3.9	7.2	4.1	4.1	3.1	3.3	7.5	86	137	12	4.5	2.7
15	3.9	6.7	4.1	3.9	3.0	3.3	7.2	70	139	9.9	4.4	2.7
16	3.8	6.2	4.1	3.8	3.0	3.3	7.3	81	143	14	4.2	2.7
17	3.8	5.9	4.1	3.8	3.0	3.7	7.4	114	143	14	3.7	2.6
18	3.6	5.5	4.0	3.7	3.0	3.7	7.5	155	110	18	3.4	2.6
19	3.6	5.2	4.0	3.7	3.0	3.6	8.9	230	101	24	3.4	2.5
20	3.4	5.0	4.0	3.7	2.9	3.6	8.9	205	92	17	3.3	2.5
21	3.3	4.9	4.2	3.3	2.9	3.6	9.2	133	81	24	3.3	2.4
22	3.3	4.9	4.5	2.8	2.9	3.5	9.5	124	80	16	3.2	2.4
23	3.2	4.8	4.5	2.7	3.0	3.6	9.2	139	72	12	3.1	2.3
24	3.2	4.8	4.5	2.8	3.0	3.7	12	170	64	12	3.0	2.2
25	3.2	4.8	4.5	3.0	3.1	3.7	17	200	55	13	2.9	2.2
26	3.1	4.8	4.4	3.7	3.1	3.8	21	250	49	9.9	2.8	2.3
27	3.1	4.8	4.4	3.7	3.1	3.8	18	330	45	8.6	2.7	2.3
28	3.2	4.5	4.4	3.6	3.0	4.1	20	450	40	7.7	2.7	2.4
29	3.3	4.5	4.4	3.6	-----	4.1	32	420	35	7.7	2.7	2.6
30	3.3	4.5	4.5	3.4	-----	4.1	30	310	32	7.2	2.7	2.6
31	3.3	-----	4.5	3.4	-----	4.1	-----	230	-----	7.0	2.7	-----
TOTAL	108.9	163.7	133.3	116.1	88.3	107.5	305.6	4,904	3,595	470.0	134.0	75.1
MEAN	3.51	5.46	4.30	3.75	3.15	3.47	10.2	158	120	15.2	4.32	2.50
MAX	3.9	7.7	4.5	4.4	3.6	4.1	32	450	300	28	6.7	2.7
MIN	2.1	3.2	4.0	2.7	2.9	2.5	4.2	33	32	7.0	2.7	2.2
AC-FT	216	325	264	232	175	213	636	9,730	7,130	932	266	149

CAL YR 1973 TOTAL 7,226.3 MEAN 19.8 MAX 244 MIN 2.8 AC-FT 14,330

WTR YR 1974 TOTAL 10,201.5 MEAN 27.9 MAX 450 MIN 2.2 AC-FT 20,230

NOTE.--No gage-height record May 24 to June 11.

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 (61 m) upstream from point of diversion to King Canyon Canal, 0.4 mi (0.6 km) downstream from Overland Creek, 1.0 mi (1.6 km) southwest of Arlington, and 6.9 mi (11.1 km) southwest of McFadden.

DRAINAGE AREA.--62.9 mi² (162.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,790 ft (2,374 m), from topographic map.

AVERAGE DISCHARGE.--20 years (1954-74), 82.3 ft³/s (2.331 m³/s), 59,630 acre-ft/yr (73.5 hm³/yr), includes records for station 06632500 Rock Creek at Arlington 1954-65, adjusted for diversion by King Canyon Canal.

EXTREMES.--Current year: Maximum discharge, 1,530 ft³/s (43.3 m³/s) May 29, gage height, 4.58 ft (1.396 m); minimum daily, 8.0 ft³/s (0.23 m³/s) Mar. 11.

Period of record: Maximum discharge, 2,590 ft³/s (73.3 m³/s) June 19, 1971, gage height, 5.83 ft (1.777 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Dec. 21, 1967.

REMARKS.--Records good except those for winter period, which are poor. Minor regulation by Sand Lake, capacity, 1,100 acre-ft (1.36 hm³) on Deep Creek, 12 mi (19 km) upstream. No diversion above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	14	11	11	18	11	18	59	715	289	44	16
2	18	13	11	12	20	9.9	15	70	715	275	38	16
3	17	18	11	12	20	11	15	63	722	247	36	16
4	16	21	10	13	19	12	16	70	722	204	35	16
5	16	22	9.5	14	18	13	16	78	857	195	33	15
6	16	22	9.0	13	16	15	15	103	715	178	31	15
7	16	21	10	14	15	10	15	141	480	170	30	15
8	16	20	11	14	12	9.4	14	180	372	165	30	14
9	16	20	11	15	13	8.3	15	286	334	150	31	13
10	16	19	13	16	15	8.3	15	368	382	144	29	13
11	16	18	9.9	15	16	8.0	15	272	460	126	28	14
12	16	18	9.4	16	18	8.5	16	254	535	113	26	18
13	18	19	12	15	20	9.0	15	296	661	103	26	17
14	22	18	11	14	20	8.5	16	244	801	100	25	18
15	20	17	11	15	20	9.0	17	195	878	98	23	17
16	18	17	10	14	21	9.4	18	216	976	155	22	15
17	17	17	11	14	20	11	19	296	878	130	21	14
18	16	16	10	14	20	13	20	395	822	160	20	14
19	16	16	10	13	19	12	26	568	767	137	20	13
20	15	16	10	13	18	11	23	590	748	124	19	13
21	16	15	10	13	17	10	22	408	748	130	20	21
22	15	15	10	13	16	11	23	368	655	100	20	50
23	15	14	11	12	15	12	24	408	584	78	19	50
24	15	14	11	12	15	13	31	500	573	75	18	48
25	14	14	10	12	15	13	45	625	546	78	18	47
26	15	15	11	13	14	12	59	774	515	62	17	45
27	12	14	10	15	14	13	63	913	475	54	17	48
28	16	13	9.5	14	13	13	55	1,010	418	54	16	47
29	16	12	10	15	-----	13	50	1,120	382	54	16	42
30	14	11	10	16	-----	14	48	1,000	330	47	16	39
31	15	-----	11	17	-----	15	-----	801	-----	45	16	-----
TOTAL	506	499	324.3	429	477	346.3	759	12,671	18,766	4,040	760	739
MEAN	16.3	16.6	10.5	13.8	17.0	11.2	25.3	409	626	130	24.5	24.6
MAX	22	22	13	17	21	15	63	1,120	976	289	44	50
MIN	12	11	9.0	11	12	8.0	14	59	330	45	16	13
AC-FT	1,300	990	643	851	946	687	1,510	25,130	37,220	8,010	1,510	1,470

CAL YR 1973 TOTAL 35,852.9 MEAN 98.2 MAX 1,350 MIN 7.4 AC-FT 71,110
WTR YR 1974 TOTAL 40,316.6 MEAN 110 MAX 1,120 MIN 8.0 AC-FT 79,970

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-29	2030	4.58	1,530
6-16	0100	4.45	1,240

06634600 LITTLE MEDICINE BOW RIVER NEAR MEDICINE BOW, WYO.

LOCATION.--Lat 41°57'12", long 106°09'38", in NW¼SW¼NE¼ sec.22, T.23 N., R.78 W., Carbon County, on right bank 1.6 mi (2.6 km) upstream from State Highway 487, 3.2 mi (5.1 km) downstream from Muddy Creek, and 4.3 mi (6.9 km) northeast of Medicine Bow.

DRAINAGE AREA.--963 mi² (2,494 km²), of which 54 mi² (140 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 968 ft³/s (27.4 m³/s) Apr. 27, gage height, 6.00 ft (1.829 m); minimum daily, 0.90 ft³/s (0.025 m³/s) Jan. 3.

REMARKS.--Records poor. Diversions for irrigation of about 5,200 acres (21.0 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	22	10	2.0	1.0	12	130	350	69	7.2	8.4	5.6
2	18	14	15	1.0	1.0	14	123	400	59	6.8	8.4	6.0
3	18	17	14	1.0	1.0	16	94	478	38	6.4	8.4	6.0
4	18	14	14	1.0	1.7	20	73	288	24	5.6	8.0	6.4
5	18	16	13	1.0	1.6	15	59	336	21	5.2	8.0	6.4
6	18	21	12	1.0	1.0	28	62	336	21	5.2	7.6	5.6
7	18	28	12	1.0	1.5	19	64	373	20	5.2	7.2	4.8
8	18	28	12	1.0	1.5	21	66	400	21	5.6	7.2	4.4
9	18	46	12	1.0	1.6	24	73	400	24	6.0	7.2	4.4
10	18	46	12	1.0	1.6	25	71	418	23	6.8	7.2	4.0
11	18	41	11	1.0	2.0	59	75	442	61	6.8	27	4.4
12	17	38	10	1.1	2.2	100	80	385	61	5.2	16	9.8
13	17	37	10	1.2	2.6	200	64	217	58	4.4	12	15
14	16	30	9.6	1.2	3.0	293	63	288	42	4.0	12	14
15	17	18	9.2	1.3	3.4	258	64	248	28	4.0	9.0	12
16	17	18	9.9	1.2	4.1	260	63	216	21	34	8.0	11
17	17	19	8.6	1.2	5.0	228	70	190	16	41	7.2	11
18	17	19	8.4	1.4	6.4	204	100	166	12	32	6.6	10
19	17	19	8.0	1.0	6.0	224	124	161	12	22	6.4	10
20	17	17	7.6	1.2	7.2	126	288	157	12	12	6.0	9.8
21	17	16	7.4	1.1	7.4	60	275	157	12	9.4	6.0	9.4
22	18	14	7.4	1.1	7.2	47	252	140	12	8.9	6.0	8.9
23	18	13	7.4	1.1	7.2	43	214	123	12	8.4	5.2	8.4
24	18	12	6.0	1.1	7.1	43	252	114	12	8.0	4.8	8.4
25	18	11	6.1	1.2	7.4	45	293	100	11	8.0	4.4	8.0
26	18	11	5.6	1.3	8.0	50	443	88	9.9	7.6	4.4	7.6
27	18	11	5.6	1.4	8.6	62	679	81	9.4	7.2	4.8	8.0
28	19	12	5.6	1.5	10	121	664	80	8.4	8.4	5.2	8.9
29	20	12	5.6	1.6	-----	197	415	72	7.6	8.9	5.6	8.4
30	20	15	5.2	1.7	-----	179	359	73	7.6	8.0	5.6	8.4
31	20	-----	5.7	1.8	-----	161	-----	76	-----	8.4	6.0	-----
TOTAL	554	650	292.7	30.10	123.0	3,497	5,711	7,558	746.8	316.6	261.6	245.0
MEAN	17.9	21.7	9.44	1.22	4.29	113	190	244	24.9	10.2	8.44	8.17
MAX	20	46	16	2.0	10	334	679	478	69	41	27	15
MIN	16	11	2.7	.90	1.5	12	59	73	7.6	4.0	4.4	4.0
AC-FT	1,100	1,290	581	76	244	6,040	11,330	14,990	1,480	628	519	486

WTR YR 1974 TOTAL 19,953.80 MEAN 54.8 MAX 679 MIN .90 AC-FT 39,660

NOTE.--No gage-height record Nov. 22 to Mar. 2.

06635000 MEDICINE BOW RIVER ABOVE SEMINOLE 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 (5 m) downstream from county highway bridge, 2.0 mi (3.2 km) upstream from Troublesome Creek, 9.0 mi (14.5 km) upstream from high-water line of Seminole Reservoir at elevation 6,357 ft (1,938 m), and 10 mi (16 km) north of Hanna.

DRAINAGE AREA.--2,338 mi² (6,055 km²), of which 396 mi² (1,026 km²) is probably noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 6,415.40 ft (1,955.414 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 178 ft³/s (5.041 m³/s), 129,000 acre-ft/yr (159 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,740 ft³/s (49.3 m³/s) June 12, gage height, 3.58 ft (1.091 m); minimum daily, 15 ft³/s (0.42 m³/s) Aug. 29 to Sept. 11.

Period of record: Maximum discharge, 6,590 ft³/s (187 m³/s) Mar. 29, 1943, gage height, 5.23 ft (1.594 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s); maximum gage height, 6.74 ft (2.054 m) May 12, 1973; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Sept. 7-14, 1959, Aug. 7, 1963.

REMARKS.--Records good except those for winter period, which are poor. Many small reservoirs above station, total capacity, about 6,000 acre-ft (7.40 hm³), for irrigation. Diversions for irrigation of about 43,000 acres (174 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Ten 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	70	49	50	60	84	370	659	1,270	345	82	15
2	82	75	57	45	54	86	350	666	1,390	315	76	15
3	82	62	92	47	54	96	420	743	1,220	285	73	15
4	85	70	90	48	58	102	360	764	1,060	270	70	15
5	79	68	51	50	56	109	320	652	960	245	68	15
6	79	102	90	51	55	115	285	617	924	215	66	15
7	79	111	50	51	55	120	300	654	988	182	64	15
8	73	118	92	50	54	130	290	736	1,140	158	60	15
9	68	178	80	42	50	150	290	820	1,450	138	78	15
10	68	148	80	54	56	170	290	924	1,270	138	91	15
11	70	220	76	56	59	190	320	1,070	1,260	142	64	15
12	73	198	74	56	63	300	340	1,210	1,670	138	79	25
13	76	170	70	57	65	400	320	1,050	1,530	130	73	26
14	79	154	67	58	65	582	300	960	1,040	115	68	26
15	82	120	65	59	69	504	280	1,000	836	106	62	30
16	82	115	66	60	70	522	250	844	844	109	56	30
17	79	116	67	59	71	492	240	736	956	112	50	36
18	79	106	66	57	71	504	265	687	1,100	138	44	40
19	79	110	65	54	70	575	335	701	1,240	162	36	38
20	85	90	62	52	70	568	510	736	1,310	166	30	36
21	82	96	61	49	71	572	589	652	1,260	170	27	34
22	79	95	61	49	71	178	561	956	1,220	146	26	32
23	79	96	62	49	72	166	510	868	1,160	190	25	30
24	75	98	62	51	73	138	480	757	1,040	182	24	30
25	73	95	61	52	74	250	554	706	684	150	21	29
26	73	64	60	54	75	235	673	694	736	130	18	27
27	70	64	59	58	76	240	844	736	617	124	17	27
28	70	95	60	56	70	260	1,120	806	516	115	17	29
29	72	97	60	59	-----	270	884	932	462	100	16	27
30	76	69	57	61	-----	290	729	1,040	402	94	15	29
31	73	-----	52	62	-----	320	-----	1,160	-----	85	15	-----
TOTAL	2,382	3,420	2,259	1,667	1,832	8,520	15,425	25,763	31,775	5,095	1,511	746
MEAN	76.8	114	72.9	53.8	61.4	275	448	831	1,059	164	48.7	24.9
MAX	85	220	99	62	78	582	1,120	1,210	1,670	345	91	40
MIN	68	62	53	46	54	84	240	617	402	85	15	15
AC-FT	4,720	6,780	4,460	3,310	3,630	16,900	26,630	51,100	63,030	10,110	3,000	1,480

CAL YR 1973 TOTAL 155,882 MEAN 537 MAX 5,330 MIN 26 AC-FT 388,500
WTR YR 1974 TOTAL 98,345 MEAN 270 MAX 1,670 MIN 15 AC-FT 195,260

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, 6.0 mi (9.7 km) upstream from high-water line of Pathfinder Reservoir at elevation 5,850.1 ft (1,783.11 m), and 9.0 mi (14.5 km) southwest of Leo.

DRAINAGE AREA.--11,189 mi² (28,980 km²), of which 4,548 mi² (11,779 km²), including 3,959 mi² (10,254 km²) 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 (1,886.712 m) 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, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum daily contents, 983,700 acre-ft (1,210 hm³) July 3, elevation, 6,355.63 ft (1,937.196 m); minimum daily, 541,600 acre-ft (668 hm³) Apr. 19, elevation, 6,327.58 ft (1,928.646 m).

Period of record: Maximum daily contents, 1,073,000 acre-ft (1,320 hm³) June 20, 1949, elevation, 6,359.29 ft (1,938.312 m); minimum daily (since appreciable storage was attained), 19,040 acre-ft (23.5 hm³) Sept. 1, 1939, elevation, 6,228.00 ft (1,898.294 m).

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 (1,250 hm³) below elevation 6,357 ft (1,937.6 m), top of spillway gates. Figures given herein represent total contents, of which 30,100 acre-ft (37.1 hm³), capacity below elevation 6,239 ft (1,901.6 m), minimum operating level for power development, are not available for power development and 325 acre-ft (0.401 hm³), below elevation 6,185.09 ft (1,885.215 m), penstock invert, is dead storage. Water is used for irrigation and power development. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

6,327	534,500	6,350	877,900
6,330	572,200	6,356	990,900
6,340	712,300		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	949,200	898,500	856,000	812,600	698,200	639,200	581,400	570,600	785,300	983,500	950,100	903,700
2	947,100	897,100	854,400	808,300	696,400	638,500	579,600	573,300	790,700	983,500	948,200	902,600
3	945,200	896,000	853,200	804,300	694,700	637,200	578,900	579,700	795,300	983,700	946,500	900,600
4	944,300	894,900	851,300	799,300	692,200	635,600	576,600	584,500	799,800	983,300	943,500	898,000
5	942,200	893,600	848,800	796,500	690,300	633,300	574,800	589,500	803,800	982,300	942,000	895,400
6	940,800	891,400	846,200	792,000	687,600	630,500	572,300	594,400	811,500	980,700	940,700	893,800
7	939,500	889,400	843,700	788,700	685,100	628,700	569,500	603,700	822,400	978,600	939,300	892,200
8	937,200	886,400	841,100	787,900	684,400	626,700	567,100	607,400	834,900	978,400	937,400	890,000
9	935,000	887,600	839,900	784,300	682,400	623,900	564,800	615,900	847,300	976,600	936,700	887,500
10	934,000	886,900	838,900	780,200	680,500	621,300	561,800	626,900	858,300	975,300	936,700	885,100
11	932,700	886,000	837,700	777,700	678,100	619,800	559,800	638,500	870,700	973,500	936,100	883,500
12	930,600	885,100	836,300	776,400	676,500	618,400	557,400	649,300	879,700	971,300	935,500	882,200
13	928,900	884,000	836,000	774,300	674,600	617,200	555,800	658,800	888,200	969,000	935,500	880,600
14	926,900	882,900	834,400	770,400	672,400	615,400	553,200	667,600	896,200	965,900	934,300	878,600
15	926,100	882,800	833,200	765,300	669,600	614,400	550,700	674,700	903,500	964,800	932,500	877,000
16	924,500	882,400	831,500	760,100	667,000	614,000	548,100	683,200	912,900	961,500	931,400	875,400
17	923,300	880,900	830,600	755,500	663,100	612,700	545,100	689,100	923,500	959,500	930,300	874,100
18	921,700	879,500	829,100	753,100	660,800	611,200	542,400	694,700	933,800	959,000	928,900	872,000
19	919,900	879,700	828,600	748,200	657,700	609,900	541,600	701,800	945,400	958,000	927,100	870,600
20	918,900	876,400	827,000	743,700	655,800	608,500	542,100	709,300	955,300	958,800	925,600	868,800
21	917,700	875,200	825,600	740,100	654,600	606,600	543,000	717,700	961,900	958,800	923,700	867,000
22	916,000	872,200	824,900	736,100	653,100	603,800	543,500	724,800	968,200	957,800	921,800	864,900
23	914,700	871,100	823,900	732,200	652,200	601,600	543,600	731,000	972,300	957,400	920,000	862,900
24	913,300	868,800	824,600	728,000	651,100	598,900	543,600	735,500	975,400	956,900	919,000	861,300
25	910,700	867,200	822,700	724,800	649,000	596,100	544,600	740,500	977,600	957,300	917,200	859,900
26	908,700	864,700	821,600	719,700	646,200	594,000	548,000	745,200	978,200	956,300	915,100	857,900
27	906,800	862,500	819,700	716,300	644,000	591,500	552,000	751,400	979,200	955,100	912,900	856,200
28	905,500	860,000	818,200	711,400	641,400	588,900	557,900	758,000	980,700	954,200	911,100	854,400
29	903,900	858,300	816,600	707,700	638,000	586,600	563,200	764,100	982,300	953,200	909,400	852,300
30	901,900	857,400	815,100	703,100	635,000	583,900	567,200	770,700	983,500	952,600	907,700	850,200
31	900,000	856,000	813,800	700,300	632,000	582,100	565,000	777,200	984,000	951,100	905,700	848,000
MAX	949,200	898,500	856,000	812,600	698,200	639,200	581,400	777,200	983,500	983,700	950,100	903,700
MIN	900,000	857,400	813,800	700,300	632,000	582,100	565,000	570,600	785,300	951,100	905,700	850,200

(†) 6,351.22 6,348.85 6,346.32 6,339.20 6,335.14 6,330.76 6,329.61 6,344.12 6,355.62 6,353.95 6,351.53 6,348.44
(‡) -50,500 -42,600 -43,600 -113,500 -58,900 -59,300 -14,900 +210,000 +206,300 -32,400 -45,400 -55,500

CAL YR 1973..... +160,600

WTR YR 1974..... -100,300

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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 (61 m) upstream from high-water line of Rock Creek Reservoir, 2.7 mi (4.3 km) downstream from Little Rock Creek, and 4.3 mi (6.9 km) northwest of Atlantic City.

DRAINAGE AREA.--9.2 mi² (23.8 km²), approximately.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 8,330 ft (2,539 m), from topographic map.

AVERAGE DISCHARGE.--12 years, 9.22 ft³/s (0.261 m³/s), 6,680 acre-ft/yr (8.24 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 100 ft³/s (2.83 m³/s) May 28, gage height, 6.62 ft (2.018 m); minimum daily, 1.6 ft³/s (0.045 m³/s) Mar. 5, 9, 10.

Period of record: Maximum discharge, 214 ft³/s (6.06 m³/s) June 9, 1965, gage height, 7.26 ft (2.213 m); maximum gage height, 8.54 ft (2.603 m) Apr. 22, 1965 (backwater from ice); minimum daily discharge, 0.5 ft³/s (0.014 m³/s) Jan. 12-14, 1963.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	2.5	2.9	2.5	2.2	1.7	1.7	13	62	10	4.4	2.3
2	3.6	2.4	3.0	2.4	2.2	1.7	1.7	15	61	11	4.9	2.5
3	3.6	2.3	2.9	2.4	2.2	1.7	1.7	17	60	13	4.3	2.4
4	3.5	2.5	2.8	2.4	2.2	1.7	1.7	18	59	9.7	4.1	2.3
5	3.4	2.6	2.7	2.4	2.1	1.6	1.7	24	58	9.1	3.8	2.2
6	3.4	2.8	2.6	2.4	2.2	1.7	1.8	29	54	8.5	3.4	2.1
7	3.3	2.8	2.7	2.4	2.0	1.7	1.8	37	48	7.9	3.3	2.1
8	3.3	3.0	2.6	2.4	2.0	1.7	1.7	50	48	7.4	3.4	2.0
9	3.9	3.0	2.5	2.3	2.0	1.6	1.8	66	42	7.1	4.4	1.9
10	4.0	3.1	2.4	2.3	2.0	1.6	1.8	65	40	6.7	4.7	1.9
11	4.0	3.4	2.5	2.3	2.0	1.7	1.7	52	39	6.2	3.6	2.1
12	3.8	3.7	2.5	2.3	2.0	1.7	1.8	50	39	5.9	3.2	2.4
13	4.6	3.9	2.5	2.3	2.0	1.7	1.7	47	40	5.7	3.1	2.5
14	6.3	3.9	2.5	2.3	1.9	1.7	1.8	43	39	5.5	2.9	2.4
15	5.7	3.7	2.4	2.4	1.9	1.7	1.9	39	39	5.4	2.8	2.2
16	4.7	3.6	2.5	2.4	1.9	1.8	2.1	38	37	5.4	2.7	2.1
17	4.1	3.4	2.6	2.4	1.8	2.0	2.3	39	32	5.7	2.7	2.0
18	3.8	3.2	2.7	2.3	1.8	2.1	2.9	44	29	7.4	2.6	2.0
19	3.5	3.4	2.6	2.3	1.8	1.8	3.2	49	26	15	2.5	2.0
20	3.5	3.1	2.7	2.3	1.8	1.7	2.4	44	24	9.1	2.4	2.0
21	3.3	3.1	2.7	2.3	1.8	1.8	2.7	38	21	6.3	2.5	2.0
22	3.3	3.0	2.7	2.2	1.8	1.8	2.7	38	20	5.4	2.5	2.0
23	3.2	2.9	2.6	2.2	1.8	1.8	3.6	39	19	5.1	2.4	1.9
24	3.1	2.9	2.6	2.2	1.7	1.8	5.2	42	17	4.9	2.3	1.8
25	2.9	3.0	2.6	2.2	1.7	1.8	8.0	49	16	4.6	2.3	1.8
26	2.9	2.9	2.5	2.2	1.7	1.7	12	58	14	4.2	2.3	1.8
27	3.0	2.8	2.5	2.2	1.7	1.8	12	69	13	4.0	2.4	1.9
28	2.9	2.8	2.5	2.2	1.7	1.8	11	82	12	4.0	2.3	2.0
29	2.8	2.9	2.6	2.2	-----	1.8	9.5	83	12	4.2	2.2	2.0
30	2.8	2.9	2.6	2.2	-----	1.8	11	72	11	4.2	2.2	1.8
31	2.7	-----	2.5	2.2	-----	1.7	-----	65	-----	4.2	2.2	-----
TOTAL	112.7	91.5	81.0	71.5	53.9	54.2	116.9	1,415	1,031	212.8	94.8	62.4
MEAN	3.64	3.05	2.61	2.31	1.93	1.75	3.90	45.5	34.4	6.86	3.06	2.08
MAX	6.3	3.9	3.0	2.5	2.2	2.1	12	83	62	15	4.9	2.5
MIN	2.7	2.3	2.4	2.2	1.7	1.6	1.7	13	11	4.0	2.2	1.8
AC-FT	224	181	161	142	107	108	232	2,810	2,040	422	188	124

CAL YR 1973 TOTAL 2,840.1 MEAN 7.78 MAX 75 MIN 1.5 AC-FT 5,630
WTR YR 1974 TOTAL 3,397.7 MEAN 9.31 MAX 83 MIN 1.6 AC-FT 6,740

PEAK DISCHARGE (BASE, 70 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-28	1915	6.62	100

PLATTE RIVER BASIN

117

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 (152 m) downstream from Slate Creek and 1.4 mi (2.3 km) northwest of Atlantic City.

DRAINAGE AREA.--21.3 mi² (55.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,850 ft (2,393 m), from topographic map. Prior to Oct. 4, 1957, at site 35 ft (11 m) upstream at different datum.

AVERAGE DISCHARGE.--17 years, 12.0 ft³/s (0.340 m³/s), 8,690 acre-ft/yr (10.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 155 ft³/s (4.39 m³/s) May 29, gage height, 3.19 ft (0.972 m); maximum gage height, 3.38 ft (1.030 m) May 11 (backwater from beaver dam); minimum daily discharge, 3.2 ft³/s (0.091 m³/s) Nov. 20.

Period of record: Maximum discharge, 340 ft³/s (9.63 m³/s) June 10, 1965, gage height, 3.85 ft (1.173 m); maximum gage height, 4.30 ft (1.311 m) Sept. 28, 1971 (backwater from beaver dam); minimum daily discharge, 0.62 ft³/s (0.018 m³/s) Aug. 31, 1966.

REMARKS.--Records poor. Flow regulated by Rock Creek Reservoir 3.0 mi (4.8 km) upstream since October 1961, capacity, 2,800 acre-ft (3.45 hm³). Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	13	8.2	7.0	11	9.7	8.5	32	88	16	5.7	3.8
2	5.8	11	8.5	6.2	11	7.8	14	42	86	14	6.8	3.9
3	6.0	10	9.1	5.7	10	7.0	9.0	35	89	16	8.3	4.8
4	6.0	9.9	8.9	6.1	10	9.0	11	25	91	11	7.6	7.5
5	8.3	8.5	6.4	6.9	9.6	6.2	5.1	29	89	13	7.0	8.6
6	9.8	9.4	7.0	7.1	9.2	6.7	7.4	36	83	16	7.0	8.8
7	9.6	9.3	5.1	6.4	7.7	9.4	14	45	77	11	7.1	7.1
8	9.5	9.9	9.2	6.0	6.7	10	14	54	80	9.8	6.6	5.7
9	10	8.4	9.7	3.7	5.7	17	9.0	58	75	9.0	7.1	3.4
10	6.7	4.7	9.9	4.0	6.4	19	9.0	52	60	8.4	8.5	3.3
11	7.4	4.7	9.7	4.5	7.3	15	7.7	45	56	7.1	7.6	3.4
12	7.8	5.4	9.2	11	10	13	9.4	32	53	6.4	7.2	3.7
13	8.0	5.5	4.9	13	10	14	9.4	27	51	5.8	7.7	3.8
14	8.9	4.0	4.9	11	9.3	19	15	26	50	8.0	7.5	3.9
15	10	3.5	6.1	5.6	9.1	20	14	29	48	7.7	6.2	4.9
16	9.5	4.3	6.4	6.7	9.2	16	11	24	48	7.8	6.1	4.7
17	6.2	7.5	8.2	6.3	11	20	14	20	43	7.2	5.8	5.1
18	3.6	7.5	11	4.9	10	20	22	22	41	8.0	6.4	6.4
19	3.5	5.5	8.6	6.1	8.5	16	22	29	37	15	8.0	6.9
20	3.4	3.2	5.0	6.4	7.6	11	18	29	32	14	6.3	6.3
21	3.4	3.4	5.4	7.7	8.1	9.4	11	27	29	11	4.0	5.4
22	3.4	5.7	9.1	10	8.6	12	16	50	27	10	4.0	5.5
23	6.0	4.1	8.8	9.2	9.1	12	22	67	25	8.7	4.0	6.0
24	6.3	7.0	9.2	7.0	9.5	9.0	26	72	22	6.6	3.8	5.3
25	5.4	6.3	8.7	7.1	9.8	9.9	33	79	22	4.3	3.4	5.1
26	5.7	7.4	8.5	7.0	10	13	41	94	21	3.8	3.3	4.4
27	3.8	6.3	8.4	7.5	11	11	31	113	17	3.6	3.4	4.8
28	4.3	7.4	10	8.3	11	8.5	29	131	16	3.4	3.5	6.0
29	5.7	7.7	11	9.0	-----	11	26	134	16	4.1	3.5	5.7
30	9.9	7.7	11	10	-----	8.1	27	112	16	5.0	3.6	4.2
31	13	-----	8.3	10	-----	6.7	-----	92	-----	4.8	3.7	-----
TOTAL	212.8	208.2	254.4	227.4	256.4	376.4	505.5	1,659	1,487	277.5	180.7	158.4
MEAN	6.86	6.94	8.21	7.34	9.16	12.1	16.9	53.5	49.6	8.95	5.83	5.28
MAX	13	13	11	13	11	20	41	134	91	16	8.5	8.8
MIN	3.4	3.2	4.9	3.7	5.7	6.2	5.1	20	16	3.4	3.3	3.3
AC-FT	422	413	505	451	509	747	1,000	3,290	2,950	550	358	314

CAL YR 1973 TOTAL 4,444.2 MEAN 12.2 MAX 59 MIN 2.7 AC-FT 8,820
WTR YR 1974 TOTAL 5,803.7 MEAN 15.9 MAX 134 MIN 3.2 AC-FT 11,510

PLATTE RIVER BASIN

06638090 SWEETWATER RIVER NEAR SWEETWATER STATION, WYO.

LOCATION.--Lat 42°30'17", long 108°14'59", in SW¼SE¼NE¼ sec.12, T.29 N., R.96 W., Fremont County, on left bank 1.4 mi (2.3 km) downstream from Alkali Creek and 4.4 mi (7.1 km) southwest of Sweetwater Station.

DRAINAGE AREA.--849 mi² (2,199 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 6,590 ft (2,009 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,950 ft³/s (83.5 m³/s) Apr. 27, gage height, 9.78 ft (2.981 m) from floodmark; minimum daily, 17 ft³/s (0.48 m³/s) Jan. 7.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Transbasin diversion by Continental Divide ditch diverts water from Little Sandy Creek to land along Lander Creek (tributary to Sweetwater River). A transbasin diversion diverts water from Sweetwater River into Pacific Creek (tributary to Big Sandy River in Green River basin).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	42	42	24	36	39	251	773	840	158	41	21
2	65	42	41	23	35	38	235	872	722	148	41	21
3	60	47	40	22	34	37	223	1,033	682	145	46	22
4	58	53	39	21	33	36	189	1,040	688	153	49	22
5	54	63	38	20	32	34	148	825	708	138	51	23
6	53	70	39	19	30	35	136	723	714	126	47	25
7	54	75	41	17	29	37	143	803	678	117	45	22
8	56	81	41	18	31	39	158	873	598	107	41	22
9	64	85	39	18	32	41	204	913	542	114	41	21
10	72	79	39	19	34	44	223	1,013	488	101	51	19
11	75	81	40	21	36	46	197	992	450	90	52	19
12	81	75	41	22	38	52	178	885	445	84	51	20
13	84	75	40	24	39	50	181	685	463	79	45	21
14	84	70	39	25	39	58	158	608	478	73	41	22
15	81	68	38	26	39	77	150	552	502	72	37	22
16	86	64	39	28	38	83	197	508	532	70	35	22
17	86	62	40	30	37	78	309	468	542	77	34	22
18	75	58	39	31	36	73	845	453	482	77	31	22
19	68	54	38	31	35	66	1,020	468	452	77	29	22
20	64	50	37	30	34	50	1,030	495	422	155	28	23
21	62	44	36	29	33	65	922	483	388	131	29	24
22	59	37	35	29	33	70	834	457	356	109	27	23
23	54	39	33	31	34	70	692	465	310	95	25	22
24	53	39	32	33	35	65	995	474	282	72	25	22
25	52	37	31	32	36	50	1,450	472	259	65	25	22
26	51	35	30	31	37	55	2,040	490	238	56	25	22
27	46	36	29	33	39	74	2,430	545	217	49	23	21
28	49	38	28	35	40	176	1,500	612	202	45	22	22
29	42	39	27	36	-----	158	955	725	181	43	22	21
30	46	41	26	38	-----	158	729	840	165	42	21	22
31	44	-----	25	37	-----	236	-----	922	-----	42	21	-----
TOTAL	1,948	1,679	1,122	833	984	2,260	15,352	21,475	14,031	2,910	1,102	654
MEAN	62.8	56.0	36.2	26.9	35.1	72.9	612	693	468	93.9	35.5	21.8
MAX	86	85	42	38	40	236	2,430	1,040	840	163	52	25
MIN	42	35	25	17	29	34	135	450	165	42	21	19
AC-FT	3,860	3,330	2,230	1,650	1,950	4,480	35,400	42,600	27,830	5,770	2,190	1,300

WTR YR 1974 TOTAL 67,350 MEAN 185 MAX 2,430 MIN 17 AC-FT 133,600

NOTE.--No gage-height record Apr. 26-28.

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 mi (1.6 km) downstream from Schounmaker ditch diversion dam, 13 mi (21 km) upstream from high-water line of Pathfinder Reservoir at elevation 5,850 ft (1,783 m), and 25 mi (40 km) southwest of Alcova.

DRAINAGE AREA.--2,327 mi² (6,027 km²).

PERIOD OF RECORD.--August 1913 to September 1924, October 1938 to current year (no winter records since 1938). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft (1,804 m), from topographic map. Aug. 28, 1913, to Sept. 30, 1924, nonrecording gages at site 0.4 mi (0.6 km) upstream at different datums.

AVERAGE DISCHARGE.--46 years (1913-24, 1938-73), 126 ft³/s (3.568 m³/s), 91,290 acre-ft/yr (113 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,910 ft³/s (54.1 m³/s) Apr. 30, gage height, 8.15 ft (2.484 m); minimum daily during period of operation, 26 ft³/s (0.74 m³/s) Sept. 5-10.

Period of record: Maximum discharge observed, 4,290 ft³/s (121 m³/s) Apr. 13, 1924, gage height, 8.36 ft (2.548 m), site and datum then in use; minimum daily, 0.5 ft³/s (0.014 m³/s) July 30 to Aug. 12, 1940.

REMARKS.--Records fair. Several small reservoirs above station, combined capacity, about 5,000 acre-ft (6.16 hm³), for irrigation. Diversions for irrigation of about 24,000 acres (97.1 km²) above station. Water-quality records for the current year are published in Part 2 of this report. Results of discharge measurements, in cubic feet per second, made during winter when station was not in operation are given below:

Oct. 30 . . 94 Feb. 26 . . 68
Jan. 24 . . 62 Mar. 21 . . 348

COOPERATION.--Fourteen discharge measurements were made by the Bureau of Reclamation. Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1310: 1921, 1923-24. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							232	1,600	582	159	71	32
2							241	1,310	641	134	67	31
3							270	934	704	123	68	28
4							264	810	743	119	68	27
5							250	817	682	113	68	26
6							237	887	656	108	68	26
7							216	967	644	102	68	26
8							197	912	701	99	70	26
9							194	776	743	95	71	26
10							189	793	704	95	72	26
11							200	838	614	88	68	27
12							224	866	557	84	65	28
13							232	884	508	84	64	28
14							217	930	458	89	63	28
15							216	949	433	84	61	27
16							205	790	425	85	61	27
17							194	666	421	86	60	27
18							194	571	430	85	57	27
19							223	524	445	85	54	28
20							349	490	433	85	51	28
21							545	462	394	95	50	28
22							685	445	366	98	49	28
23							814	448	339	108	48	28
24							883	445	317	120	45	28
25							776	440	304	116	44	28
26							698	445	270	104	44	28
27							767	442	247	104	43	30
28							866	448	232	89	44	28
29							-----	1,090	475	200	84	28
30							-----	1,690	508	175	78	28
31							-----	-----	545	-----	75	-----
TOTAL							13,358	22,417	14,368	3,073	1,777	831
MEAN							445	723	479	99.1	57.3	27.7
MAX							1,690	1,600	743	159	72	32
MIN							189	440	175	75	34	26
AC-FT							26,500	44,460	28,500	6,100	3,520	1,650

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 9.0 mi (14.5 km) southwest of Alcovia.

DRAINAGE AREA.--14,670 mi² (37,995 km²), of which 4,659 mi² (12,067 km²), including 3,959 mi² (10,254 km²) 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 (1,730.68 m) 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 (0.58 m) lower than mean sea level. Prior to Apr. 12, 1950, nonrecording gages near present site at datum 1.9 ft (0.58 m) lower.

EXTREMES.--Current year: Maximum daily contents, 972,900 acre-ft (1,200 hm³) Mar. 18, elevation, 5,848.12 ft (1,782.507 m); minimum daily, 687,200 acre-ft (847 hm³) Sept. 29, elevation, 5,833.08 ft (1,777.923 m).

Period of record: Maximum daily contents, 1,182,000 acre-ft (1,460 hm³) June 25-27, 1917, elevation, 5,858.86 ft (1,785.781 m), 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 (1,250 hm³) between elevations 5,668.1 ft (1,727.64 m), north outlet trashrack sill, and 5,850.1 ft (1,783.11 m), 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

5,833	685,900	5,845	907,700
5,835	719,500	5,849	991,900
5,840	809,500		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	771,400	783,900	812,600	836,600	927,100	964,000	961,900	959,800	931,200	896,400	784,600	710,400
2	770,700	784,600	813,300	840,100	928,700	965,300	960,230	961,000	932,000	891,500	782,400	708,300
3	771,400	785,700	816,000	842,400	929,100	967,000	959,800	960,600	932,900	886,200	780,900	708,000
4	771,100	786,100	816,700	845,500	930,800	967,400	958,900	961,500	933,700	881,800	779,800	705,300
5	770,700	787,200	818,200	849,000	932,500	968,200	957,600	961,000	934,600	877,100	778,700	703,200
6	770,400	787,500	820,100	852,200	933,700	968,700	957,200	960,200	934,100	873,500	777,300	702,200
7	769,300	788,300	821,300	854,500	935,800	969,900	956,400	961,000	931,600	869,500	775,100	701,200
8	769,300	789,400	820,900	855,700	937,500	969,900	955,500	962,300	931,600	865,100	772,500	699,500
9	770,400	790,500	824,700	858,800	938,300	969,900	953,400	961,700	930,000	861,200	770,400	698,900
10	771,100	791,200	825,100	860,800	940,000	971,200	953,400	960,200	927,900	856,100	767,100	696,200
11	771,800	792,700	825,100	863,200	941,200	971,200	952,600	959,300	926,200	852,200	763,500	694,900
12	772,200	794,200	825,100	865,100	942,100	971,600	951,700	958,100	924,200	848,600	760,600	693,900
13	771,800	796,400	825,100	867,100	942,900	972,100	951,300	955,500	922,100	844,000	757,800	692,900
14	773,600	796,800	825,500	869,500	945,000	972,100	950,900	954,700	919,600	840,500	754,500	691,900
15	773,600	797,600	826,600	872,700	945,800	972,500	950,000	954,700	917,000	834,700	752,000	690,500
16	774,300	797,900	827,700	875,500	949,200	972,900	948,800	952,100	913,900	829,700	749,600	689,200
17	774,000	797,900	827,700	879,400	950,900	973,400	947,900	951,700	913,900	825,500	747,800	689,500
18	773,600	799,400	828,500	883,000	953,400	973,800	947,100	949,600	912,600	820,500	745,300	690,200
19	773,200	800,900	829,300	885,800	955,500	972,900	948,300	948,800	911,600	815,600	742,200	689,900
20	774,000	803,500	829,300	889,900	956,400	972,900	949,200	945,800	907,100	810,600	739,300	689,900
21	774,300	802,800	829,300	893,500	958,500	971,600	951,300	943,700	906,700	808,000	736,900	689,200
22	775,100	803,900	829,300	897,000	958,900	971,200	951,700	941,700	906,700	804,300	734,400	688,900
23	774,700	804,700	830,100	900,400	958,900	969,900	952,300	939,600	908,700	800,900	732,400	688,500
24	776,500	804,700	829,700	903,200	958,500	969,100	953,000	937,900	909,400	796,800	729,600	688,900
25	778,400	805,000	830,800	905,700	959,800	968,200	953,800	935,800	910,200	794,200	727,200	688,500
26	780,600	806,200	831,600	909,400	960,600	967,400	954,900	933,700	909,800	792,700	724,700	687,900
27	781,300	808,400	832,000	913,100	961,900	966,100	955,300	931,200	910,200	791,600	722,700	687,900
28	782,000	809,900	833,100	916,300	962,300	964,400	955,700	928,700	907,700	790,100	719,500	687,900
29	782,800	810,300	833,500	919,200	-----	963,600	956,400	928,900	903,600	789,400	717,200	687,200
30	783,100	811,000	834,700	923,300	-----	963,200	958,500	928,900	900,400	788,600	714,400	688,000
31	784,600	-----	835,800	925,800	-----	962,300	-----	929,500	-----	787,400	712,700	-----
MAX	784,600	811,000	835,800	925,800	962,300	973,800	961,900	962,300	934,600	896,400	784,600	710,400
MIN	769,300	783,900	812,600	836,600	927,100	962,300	947,100	928,700	900,400	787,400	712,700	687,200

WTR YR 1974 MAX 973,800 MIN 687,200

(†)	5,838.66	5,840.08	5,841.38	5,845.88	5,847.62	5,847.62	5,847.44	5,846.06	5,844.64	5,838.81	5,834.60	5,833.13
(‡)	+12,800	+26,400	+24,800	+90,000	+36,500	0	-3,800	-29,000	-29,100	-113,000	-74,700	-24,700

CAL YR 1973..... +6,900

WTR YR 1974..... -83,800

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

PLATTE RIVER BASIN
06641500 ALCOVA RESERVOIR AT ALCOVA, WYO.

121

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 mi (0.3 km) southwest of Alcoa.

DRAINAGE AREA.--14,735 mi² (38,164 km²), of which 4,659 mi² (12,067 km²), including 3,959 mi² (10,254 km²) 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 (1,660.246 m). Datum of gage is 5,320 ft (1,621.5 m) 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, 181,500 acre-ft (224 hm³) July 27, elevation, 5,498.87 ft (1,676.056 m); minimum daily, 155,100 acre-ft (191 hm³) Jan. 2, elevation, 5,487.61 ft (1,672.624 m).

Period of record: Maximum daily contents, 190,300 acre-ft (235 hm³) Aug. 14, 15, 1952, elevation, 5,499.92 ft (1,676.376 m); minimum daily (since appreciable storage was attained), 1,980 acre-ft (2.44 hm³) Sept. 30, 1940, elevation, 5,353.56 ft (1,631.765 m). 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 (227 hm³) at elevation 5,500.00 ft (1,676.400 m), top of spillway gates. Dead storage, 100 acre-ft (0.123 hm³). Figures given herein represent total contents. Usable contents published prior to October 1956. Water is used for irrigation in North Platte River basin. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

5,487	153,700	5,495	172,200
5,490	160,500	5,499	181,800

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179,300	156,500	155,900	155,300	155,900	158,900	181,400	179,500	177,000	180,600	181,100	179,400
2	179,300	156,600	155,700	155,100	156,200	158,700	181,300	179,500	176,900	180,800	180,900	179,600
3	179,200	156,700	155,800	155,300	156,000	158,500	181,300	179,400	176,900	180,900	180,700	179,700
4	179,200	156,900	156,000	155,300	156,000	158,000	181,400	179,400	177,100	180,800	180,600	179,900
5	179,000	156,900	156,200	155,500	156,000	158,200	181,200	179,400	177,400	180,800	180,200	179,900
6	178,900	156,300	156,000	155,700	156,000	157,900	181,100	179,300	177,700	180,700	179,800	180,000
7	178,700	156,000	155,500	155,700	156,000	157,300	180,900	179,300	177,900	180,600	179,500	180,200
8	177,600	156,200	155,900	156,000	155,900	157,400	180,700	179,300	178,400	180,500	179,200	180,300
9	176,600	156,400	155,900	156,100	155,800	157,700	180,600	179,500	178,800	180,400	179,600	181,000
10	175,600	156,500	155,900	156,300	155,700	158,000	180,600	179,700	179,200	180,200	179,600	180,800
11	174,600	156,800	156,000	156,300	155,600	158,500	180,600	179,900	179,600	180,000	179,800	180,300
12	173,400	155,900	155,900	156,400	155,500	158,700	180,200	180,000	180,000	179,900	179,500	179,800
13	172,600	155,900	156,100	156,400	155,700	158,900	179,400	179,900	180,400	179,900	179,800	179,300
14	171,100	155,800	155,800	156,200	155,600	159,000	179,400	179,700	180,600	179,900	179,900	178,900
15	170,100	156,300	155,800	155,700	155,700	159,100	179,400	179,400	180,800	179,900	179,900	178,400
16	169,000	156,500	155,700	155,600	155,700	159,600	179,400	179,100	181,000	179,900	180,000	178,000
17	168,800	156,900	155,700	155,400	155,600	160,000	179,300	178,800	178,500	179,900	180,000	178,000
18	168,800	156,300	155,800	155,600	155,600	160,800	179,200	178,400	177,300	180,000	180,000	178,100
19	168,700	156,200	156,200	155,700	155,600	163,000	179,300	178,100	177,600	180,000	179,900	178,200
20	167,800	156,200	156,300	155,400	155,700	165,500	179,600	177,700	177,800	180,100	179,900	178,000
21	166,700	156,300	156,400	155,800	155,800	167,800	179,600	177,500	178,100	180,200	179,900	178,100
22	165,600	156,200	156,000	155,800	155,900	170,300	179,600	177,500	178,300	180,000	179,800	178,300
23	165,100	156,400	156,000	155,900	155,800	173,000	179,600	177,500	178,600	179,900	179,800	178,500
24	162,100	156,600	156,100	156,100	155,900	174,900	179,600	177,500	178,900	180,000	179,800	178,500
25	159,500	157,100	155,800	156,400	156,200	177,400	179,700	177,500	179,100	180,600	179,800	179,900
26	157,500	156,900	156,000	156,500	157,000	179,300	179,700	177,500	179,400	181,000	179,700	178,800
27	156,900	156,900	156,400	156,100	158,100	180,400	179,700	177,300	179,700	181,500	179,700	178,800
28	156,400	156,800	156,300	156,400	158,900	181,000	179,600	177,300	179,900	181,400	179,600	178,800
29	156,000	156,700	156,300	156,300	-----	181,200	179,600	177,300	180,100	181,200	179,300	178,700
30	156,100	156,600	155,800	156,000	-----	181,300	179,500	177,300	180,400	181,000	179,100	178,700
31	156,500	-----	155,600	155,800	-----	181,400	-----	177,300	-----	181,100	179,100	-----
MAX	179,300	157,100	156,400	156,500	158,900	181,400	181,400	180,000	181,000	181,500	181,100	181,000
MIN	156,000	155,800	155,500	155,100	155,500	157,300	179,200	177,300	176,900	179,900	179,100	178,000

(†)	5,488.24	5,488.28	5,487.87	5,487.95	5,489.30	5,498.83	5,498.04	5,497.12	5,498.40	5,498.71	5,497.90	5,497.73
(‡)	-22,800	+100	-1,000	+200	+3,100	+22,500	-1,900	-2,200	+3,100	+700	-2,000	-400

CAL YR 1973..... -300

WTR YR 1974..... -600

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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 (274 m) downstream from bridge on U.S. Highways 20 and 87, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--213 mi² (552 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft (1,518 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 81.6 ft³/s (2.311 m³/s), 59,120 acre-ft/yr (72.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,980 ft³/s (84.4 m³/s) Apr. 27, gage height, 6.50 ft (1.981 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Aug. 6, 7, 23-29, 31.

Period of record: Maximum discharge, 14,200 ft³/s (402 m³/s) June 12, 1970, gage height, 9.45 ft (2.880 m); no flow at times in 1961-63, 1965.

REMARKS.--Records fair except those for winter period, which are poor. One small reservoir above station, capacity, about 60 acre-ft (0.074 hm³) for irrigation. Diversions above station for irrigation of about 3,700 acres (15.0 km²), of which about 400 acres (1.62 km²) lies below station. Water is diverted to Millar ditch 0.3 mi (0.5 km) upstream and bypasses the station; observations of no flow, estimates of flow, and results of discharge measurements, in cubic feet per second, of flow in ditch are given below:

Oct. 19 . . 0	Apr. 30 . . 0	June 19 . . 0
Jan. 10 . . 0	May 7 . . 0	July 2 . . 1.8
Mar. 13 . . 0	May 20 . . 0	Aug. 7 . . .8
Apr. 24 . . 0	May 30 . . 0	Sept. 24 . . a.1
Apr. 25 . . a.8	June 14 . . 0	
a Estimate		

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2118: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	32	47	26	32	32	173	772	80	2.6	1.6	2.2
2	34	33	43	26	36	34	148	1,040	74	2.0	1.6	4.0
3	34	31	40	26	36	40	126	588	65	1.8	1.6	4.0
4	35	32	40	27	36	32	94	460	44	1.8	1.6	3.8
5	35	40	44	26	35	34	104	540	50	1.8	1.5	3.2
6	34	36	44	28	35	42	119	648	44	1.6	1.4	3.6
7	34	35	38	30	35	37	132	716	44	1.6	1.4	2.4
8	33	36	33	29	36	36	122	814	80	1.8	1.6	3.2
9	35	39	36	28	38	36	128	1,010	164	1.8	2.0	2.6
10	38	41	47	29	40	37	132	1,210	112	1.6	3.2	3.6
11	39	39	31	28	40	39	157	996	77	1.6	3.2	4.9
12	39	36	30	30	39	39	111	772	64	1.6	2.8	8.0
13	38	35	29	32	44	44	132	624	54	1.6	2.8	9.5
14	37	35	31	35	45	47	113	480	45	1.6	2.8	7.4
15	37	34	38	38	37	53	113	392	38	1.6	3.0	6.8
16	35	32	32	43	37	59	132	305	31	2.0	2.6	6.8
17	36	32	30	46	30	77	140	228	25	2.6	2.6	8.7
18	34	32	31	43	29	168	180	224	20	2.2	2.6	10
19	33	33	42	35	28	185	360	232	17	2.8	2.4	12
20	33	36	47	35	31	132	420	252	6.8	2.6	1.8	14
21	32	30	44	32	35	98	330	215	7.4	2.4	1.8	20
22	33	33	34	32	36	101	320	188	6.3	2.2	1.6	17
23	33	37	33	35	33	77	470	156	4.9	2.0	1.4	14
24	33	36	41	38	34	70	636	140	4.3	2.0	1.4	14
25	32	35	38	43	35	67	1,070	140	4.0	2.2	1.4	12
26	30	35	36	40	36	64	1,640	132	4.6	2.6	1.4	9.5
27	29	35	36	40	28	64	1,610	128	3.4	2.4	1.4	9.5
28	29	40	36	39	31	173	636	124	2.8	2.2	1.4	14
29	30	45	34	42	-----	203	490	135	3.4	1.8	1.4	12
30	31	50	32	48	-----	168	520	120	3.6	1.8	1.6	14
31	32	-----	31	45	-----	193	-----	100	-----	1.8	1.4	-----
TOTAL	1,052	1,075	1,148	1,074	987	2,481	10,858	13,884	1,179.5	62.0	60.3	256.7
MEAN	33.9	35.8	37.0	34.6	35.3	80.0	362	448	39.3	2.00	1.95	8.56
MAX	39	50	47	48	45	203	1,640	1,210	164	2.8	3.2	20
MIN	29	30	29	26	28	32	94	100	2.8	1.6	1.4	2.2
AC-FT	2,090	2,130	2,240	2,130	1,960	4,920	21,540	27,540	2,340	123	120	509

CAL YR 1973	TOTAL 61,388.2	MEAN 168	MAX 3,420	MIN 9.1	AC-FT 121,800
WTR YR 1974	TOTAL 34,117.5	MEAN 93.5	MAX 1,640	MIN 1.4	AC-FT 67,670

PEAK DISCHARGE (BASE, 450 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
4-27	0130	6.50	2,980
5-2	0330	5.41	1,370
5-10	0700	5.32	1,250

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 mi (1.3 km) downstream from Sand Creek, 1.0 mi (1.6 km) downstream from Dave Johnston powerplant, and 5.8 mi (9.3 km) east of Glenrock city limits.

DRAINAGE AREA.--17,497 mi² (45,317 km²), of which 5,132 mi² (13,292 km²), including 3,959 mi² (10,254 km²) 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 (1,500 m), from topographic map. Prior to Oct. 1, 1965, at datum 1.00 ft (0.305 m) higher.

EXTREMES.--Current year: Maximum discharge, 6,420 ft³/s (182 m³/s) Apr. 27, gage height, 4.80 ft (1.463 m); minimum daily, 619 ft³/s (17.5 m³/s) Jan. 2.

Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) May 14, 1965, gage height, 6.10 ft (1.859 m); minimum daily, 176 ft³/s (4.98 m³/s) Dec. 11, 1961.

REMARKS.--Records good. Flow regulated by Seminoe, Pathfinder, and Alcova Reservoirs. (See sta 06635500, 06640500, 06641500.) Slight regulation 1.0 mi (1.6 km) upstream by storage pond for Dave Johnston powerplant, capacity, 755 acre-ft (0.931 hm³). 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,590	1,190	1,050	665	1,190	1,090	3,460	4,410	4,030	3,950	2,030	1,760
2	1,570	1,190	1,050	619	1,130	1,240	3,520	4,540	3,990	3,950	2,070	1,730
3	1,580	1,200	1,050	638	1,120	1,590	3,530	4,380	3,970	3,960	2,150	1,710
4	1,600	1,180	1,040	637	1,100	1,470	3,470	4,210	3,840	3,970	2,160	1,710
5	1,620	1,150	1,020	664	1,130	1,370	3,510	4,140	3,780	3,970	2,170	1,710
6	1,620	1,150	932	711	1,030	1,890	3,510	4,180	3,820	3,960	2,180	1,700
7	1,620	1,160	1,140	742	1,010	2,100	3,650	4,190	3,840	3,970	2,200	1,720
8	1,640	1,170	1,080	881	1,020	2,120	3,620	4,270	4,010	3,980	2,130	1,720
9	1,650	1,170	1,050	984	998	2,120	3,620	4,370	4,170	4,010	2,060	1,750
10	1,710	1,150	1,010	975	1,110	2,140	3,640	4,530	4,030	3,960	2,200	1,730
11	1,700	1,110	914	990	1,150	2,140	3,650	4,940	3,880	3,950	2,160	1,720
12	1,690	1,100	1,030	990	1,110	2,140	3,640	4,820	3,810	3,940	2,140	1,870
13	1,670	1,080	1,020	1,030	1,130	2,170	3,790	4,700	3,810	3,950	2,120	1,830
14	1,670	1,100	1,040	1,150	1,140	2,120	4,110	4,500	3,870	3,930	2,100	1,830
15	1,690	1,090	995	1,230	1,150	2,160	3,590	4,470	3,940	3,950	2,080	1,830
16	1,690	1,070	1,050	1,310	1,160	2,170	3,640	4,380	4,000	3,940	2,080	1,830
17	1,680	1,070	1,030	1,350	1,210	2,210	3,660	4,350	4,010	3,990	2,070	1,850
18	1,690	1,080	1,050	1,320	1,210	2,250	3,710	4,340	3,960	3,960	2,060	1,410
19	1,670	1,090	980	1,270	1,150	2,330	3,910	4,320	3,940	4,060	2,060	1,050
20	1,680	1,090	950	1,260	1,190	2,260	4,490	4,350	3,890	4,050	2,060	1,000
21	1,690	1,070	1,030	1,210	1,080	2,150	5,080	4,300	3,890	4,000	2,080	1,100
22	1,690	1,050	1,180	1,040	1,070	2,180	4,760	4,270	3,900	3,960	2,110	1,400
23	1,690	1,060	1,130	999	1,060	2,160	4,660	4,260	3,900	3,800	2,110	1,400
24	1,680	1,030	1,080	1,060	983	2,200	4,920	4,250	4,030	3,150	2,080	1,380
25	1,720	1,060	1,030	1,120	943	2,200	5,180	4,180	3,930	2,900	2,070	1,270
26	1,690	1,010	1,020	1,120	1,210	2,210	5,380	4,110	3,910	2,590	2,060	1,220
27	1,600	1,060	822	1,090	1,140	2,450	5,550	4,100	3,930	2,080	2,060	1,220
28	1,420	1,070	711	1,050	1,090	2,730	4,760	4,130	3,930	1,880	2,060	1,240
29	1,430	1,080	750	1,040	-----	3,030	4,420	4,170	3,950	2,040	2,040	1,220
30	1,410	1,040	805	1,070	-----	3,270	4,340	4,090	3,950	2,050	2,050	1,230
31	1,220	-----	790	1,100	-----	3,420	-----	4,060	-----	2,040	1,910	-----
TOTAL	50,270	33,120	30,829	31,315	31,014	67,080	122,770	134,310	117,910	109,890	54,910	46,140
MEAN	1,622	1,104	994	1,010	1,108	2,164	4,092	4,333	3,930	3,545	2,094	1,538
MAX	1,720	1,200	1,180	1,350	1,210	3,420	5,550	4,940	4,170	4,060	2,200	1,870
MIN	1,220	1,010	711	619	943	1,090	3,460	4,060	3,780	1,880	1,910	1,000
AC-FT	99,710	65,690	61,150	62,110	61,520	133,100	243,500	266,400	233,900	218,000	128,700	91,520

CAL YR 1973 TOTAL 959,734 MEAN 2,629 MAX 11,000 MIN 641 AC-FT 1,904,000
WTR YR 1974 TOTAL 839,558 MEAN 2,300 MAX 5,550 MIN 619 AC-FT 1,665,000

PLATTE RIVER BASIN

125

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 1.0 mi (1.6 km) downstream from Snowshoe Creek, and 17 mi (27 km) south of Glenrock.

DRAINAGE AREA.--63.0 mi² (163.2 km²).

PERIOD OF RECORD.--April 1946 to September 1951, October 1961 to September 1967, October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,703.18 ft (2,043.129 m) above mean sea level. Prior to June 7, 1946, nonrecording gage, and June 8, 1946, to Oct. 26, 1965, water-stage recorder at same site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--14 years, 40.1 ft³/s (1.136 m³/s), 29,050 acre-ft/yr (35.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 557 ft³/s (15.8 m³/s) Apr. 26, gage height, 4.19 ft (1.277 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Aug. 30 to Sept. 2, 6-12.

Period of record: Maximum discharge, 4,530 ft³/s (128 m³/s) May 14, 1965, gage height, 9.58 ft (2.920 m), present datum; no flow at times.

REMARKS.--Records fair above 25 ft³/s (0.71 m³/s) and poor below. Diversions above station for irrigation of about 60 acres (24 hm²), of which about 40 acres (16 hm²) lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.3	3.4	1.7	2.1	4.4	20	285	80	13	.80	.70
2	3.1	3.8	3.3	1.7	2.2	5.1	20	315	70	11	.90	.70
3	2.9	3.6	2.0	1.7	2.2	5.0	17	263	61	10	.90	.80
4	3.0	3.6	1.9	1.7	2.5	5.0	19	233	53	9.7	.90	.80
5	2.8	3.2	1.8	1.7	2.5	5.2	20	243	49	8.3	.90	.80
6	3.1	3.5	2.0	1.7	2.5	5.1	20	281	51	7.5	.90	.70
7	2.9	4.3	2.2	1.7	2.5	5.7	21	313	44	7.2	.80	.70
8	2.8	5.5	1.9	1.7	2.6	6.3	21	362	66	6.8	.80	.70
9	3.3	5.9	1.7	1.7	2.7	6.5	24	414	100	6.2	.90	.70
10	4.0	5.2	2.0	1.7	2.8	7.0	28	474	89	5.3	2.4	.70
11	3.9	4.7	2.2	1.9	2.8	7.6	21	385	72	4.6	2.6	.70
12	3.8	4.5	2.3	2.1	2.6	8.2	25	310	62	3.9	1.5	.70
13	3.7	4.3	2.2	2.5	2.6	9.6	24	273	55	3.5	1.2	.80
14	3.6	4.4	2.2	3.0	2.5	11	22	235	52	3.0	1.2	.90
15	3.4	4.3	2.1	3.2	2.5	11	24	203	49	2.7	1.1	.90
16	3.3	4.8	2.3	3.2	2.7	10	28	183	45	3.5	1.0	.90
17	2.9	4.3	2.7	3.2	3.0	12	42	169	43	4.7	1.0	1.0
18	2.9	4.1	2.1	2.8	2.9	11	71	175	39	3.9	1.0	.90
19	2.9	3.6	2.0	2.4	2.7	10	115	192	35	3.4	.90	.90
20	2.5	3.2	2.3	2.0	2.4	10	126	215	32	3.1	.90	.90
21	2.5	3.0	2.4	1.9	2.2	10	100	199	29	4.0	.90	1.0
22	2.7	2.5	2.4	1.8	2.3	12	95	175	27	3.7	.90	1.0
23	2.5	2.1	2.3	1.7	2.2	11	131	155	27	2.5	.90	.90
24	2.5	1.9	2.0	1.7	2.1	10	218	143	35	1.4	.90	.90
25	2.7	1.8	1.8	1.7	2.4	9.9	305	135	25	1.3	.80	.90
26	2.7	1.7	1.8	1.7	2.7	11	420	131	21	1.1	.80	.90
27	2.7	1.7	1.8	1.7	3.2	15	385	129	20	1.2	.90	.90
28	2.7	1.9	1.8	1.8	3.7	15	294	125	18	1.2	.80	1.0
29	2.9	3.0	1.8	1.8	-----	18	250	121	15	1.0	.80	1.1
30	2.9	3.3	1.7	1.9	-----	20	255	105	14	1.0	.70	1.2
31	2.9	-----	1.7	2.0	-----	23	-----	92	-----	.90	.70	-----
TOTAL	94.0	107.1	66.1	63.0	72.1	312.6	3,173	7,073	1,380	140.50	31.70	25.70
MEAN	3.03	3.57	2.13	2.03	2.58	10.1	105	223	46.0	4.54	1.02	.85
MAX	4.0	5.9	3.4	3.2	3.7	23	420	474	100	13	2.5	1.2
MIN	2.5	1.7	1.7	1.7	2.1	4.4	17	92	14	.90	.70	.70
AC-FT	186	212	131	125	143	620	6,300	14,020	2,740	279	63	51

CAL YR 1973 TOTAL 24,308.99 MEAN 66.6 MAX 1,490 MIN 0 AC-FT 48,220
 WTR YR 1974 TOTAL 12,540.90 MEAN 34.4 MAX 474 MIN .70 AC-FT 24,870

PEAK DISCHARGE (BASE, 250 FT³/S)

NOTE.--No gage-height record Aug. 13 to Sept. 30.

DATE	TIME	G.HT.	DISCHARGE
4-26	1915	4.19	557
5- 1	2230	3.51	362
5- 9	2300	3.97	491

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 mi (1.3 km) upstream from La Prele Reservoir and 13.5 mi (21.7 km) southwest of Douglas.

DRAINAGE AREA.--135 mi² (350 km²).

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 (1,707 m), from nearby line of levels.

AVERAGE DISCHARGE.--52 years (1919-71), 40.4 ft³/s (1.144 m³/s), 29,270 acre-ft/yr (36.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 586 ft³/s (16.6 m³/s) Apr. 26, gage height, 9.03 ft (2.752 m); minimum daily during period of operation, 0.75 ft³/s (0.021 m³/s) Aug. 25 to Sept. 2.

Period of record: Maximum discharge, 17,300 ft³/s (490 m³/s) June 12, 1970, gage height, 13.01 ft (3.965 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of peak flow; no flow at times in 1936, 1939-40, 1943.

REMARKS.--Records fair. Several small reservoirs above station; combined capacity, about 140 acre-ft (0.173 hm³) for irrigation. Diversions for irrigation of about 4,600 acres (18.6 km²) 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.

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

REVISIONS (WATER YEARS).--WSP 1710: Drainage area. WSP 1918: 1920(M), 1952(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						14	48	204	26	9.5	5.0	.75
2						14	48	238	18	8.2	4.7	.75
3						17	38	191	16	10	5.6	1.0
4						18	38	166	12	9.5	5.6	1.3
5						18	34	172	11	8.2	5.6	1.5
6						19	36	186	9.0	7.0	2.9	1.9
7						18	46	222	7.4	6.6	1.5	1.7
8						18	42	262	70	8.2	1.4	1.5
9						18	43	296	130	9.1	1.4	1.5
10						18	46	350	104	8.7	1.5	1.5
11						18	44	292	52	7.9	1.9	1.5
12						18	43	212	30	6.0	1.9	2.5
13						18	48	177	23	7.0	1.3	2.3
14						20	43	133	18	7.0	1.0	2.1
15						22	42	121	16	7.0	1.0	2.1
16						22	50	98	16	6.3	1.0	2.1
17						22	78	86	15	6.6	1.0	1.9
18						30	119	86	14	5.0	.90	2.1
19						30	182	90	13	4.7	.90	2.1
20						26	218	112	12	4.7	1.0	2.1
21						24	156	98	11	5.7	1.0	2.3
22						20	142	77	10	5.4	.90	2.5
23						20	206	62	10	5.4	.90	3.3
24						18	300	56	9.0	3.3	.90	5.6
25						18	360	48	9.0	2.9	.75	7.8
26						23	448	53	8.2	2.7	.75	7.6
27						23	434	52	6.0	2.5	.75	7.5
28						28	304	56	7.4	2.5	.75	7.4
29					-----	30	241	54	8.2	2.5	.75	7.4
30					-----	38	203	38	8.7	2.7	.75	7.4
31		-----			-----	48	-----	25	-----	4.1	.75	-----
TOTAL						688	4,080	4,314	699.9	186.9	56.05	93.00
MEAN						22.2	136	139	23.3	6.03	1.81	3.10
MAX						48	448	350	130	10	5.6	7.8
MIN						14	34	26	6.0	2.5	.75	.75
AC-FT						1,360	8,090	8,560	1,390	371	111	184

PLATTE RIVER BASIN

127

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 (192 m) downstream from bridge on U.S. Highway 87, 0.2 mi (0.3 km) upstream from Shawnee Creek, and 1.5 mi (2.4 km) east of Orin.

DRAINAGE AREA.--18,847 mi² (48,814 km²), of which 5,152 mi² (13,344 km²), including 3,959 mi² (10,254 km²) 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 (1,420 m), 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 mi (3.5 km) downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 7,950 ft³/s (225 m³/s) Apr. 27, gage height, 6.12 ft (1.865 m); minimum daily, 920 ft³/s (26.1 m³/s) Jan. 2-7.

Period of record: Maximum discharge, 23,800 ft³/s (674 m³/s) May 15, 1965, gage height, 10.00 ft (3.048 m); maximum gage height, 10.45 ft (3.185 m) June 12, 1970; minimum daily discharge determined, 170 ft³/s (4.81 m³/s) Sept. 11-14, 1899.

REMARKS.--Records good except those for winter period, which are fair. 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.--Twenty-four 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,580	1,310	1,250	1,100	1,300	1,080	3,690	5,040	4,080	3,820	1,970	1,970
2	1,580	1,280	1,240	920	1,400	1,050	3,710	5,160	4,030	3,820	1,960	1,880
3	1,570	1,290	1,230	920	1,400	1,260	3,770	5,280	3,970	3,880	1,990	1,860
4	1,570	1,290	1,220	920	1,400	1,510	3,710	4,950	3,900	3,930	2,100	1,840
5	1,590	1,270	1,220	920	1,400	1,520	3,710	4,700	3,800	3,950	2,110	1,820
6	1,610	1,290	1,230	920	1,400	1,510	3,710	4,660	3,840	3,950	2,100	1,800
7	1,610	1,340	1,200	920	1,400	2,060	3,900	4,770	3,880	4,010	2,100	1,800
8	1,620	1,310	1,360	1,000	1,300	2,230	3,970	4,790	4,180	3,990	2,140	1,800
9	1,640	1,290	1,300	1,100	1,250	2,270	3,900	4,900	4,770	3,950	2,040	1,800
10	1,660	1,300	1,320	1,100	1,240	2,260	3,920	5,110	4,610	3,950	2,130	1,830
11	1,730	1,290	1,220	1,100	1,300	2,290	3,970	5,500	4,310	3,930	2,250	1,820
12	1,740	1,250	1,100	1,100	1,330	2,300	3,970	5,630	4,120	3,900	2,160	1,910
13	1,740	1,220	1,220	1,100	1,280	2,320	3,950	5,330	4,050	3,880	2,110	2,010
14	1,710	1,210	1,230	1,150	1,280	2,350	4,220	5,040	4,030	3,880	2,070	1,970
15	1,710	1,210	1,230	1,240	1,300	2,290	4,080	4,860	3,990	3,840	2,030	1,970
16	1,700	1,190	1,180	1,330	1,290	2,320	3,820	4,700	4,050	3,820	2,010	1,990
17	1,710	1,170	1,270	1,410	1,280	2,320	3,920	4,570	4,080	3,840	2,000	1,990
18	1,730	1,170	1,250	1,500	1,310	2,400	4,030	4,520	4,050	3,900	2,010	2,000
19	1,750	1,180	1,290	1,500	1,300	2,530	4,290	4,480	3,950	3,920	2,030	1,490
20	1,750	1,200	1,190	1,400	1,250	2,540	4,660	4,500	3,900	4,050	2,010	1,150
21	1,750	1,220	1,160	1,300	1,260	2,400	5,550	4,550	3,840	4,030	2,010	1,060
22	1,770	1,210	1,260	1,200	1,160	2,320	5,550	4,460	3,840	4,010	2,030	1,190
23	1,770	1,190	1,430	1,100	1,140	2,320	5,160	4,390	3,860	3,950	2,060	1,490
24	1,780	1,210	1,380	1,100	1,140	2,290	5,330	4,300	3,930	3,680	2,040	1,500
25	1,790	1,190	1,360	1,200	1,030	2,290	6,090	4,240	3,930	3,070	2,010	1,460
26	1,800	1,240	1,290	1,200	924	2,250	6,600	4,200	3,840	2,950	2,010	1,340
27	1,760	1,220	1,210	1,200	1,230	2,260	7,210	4,160	3,800	2,440	2,010	1,270
28	1,660	1,320	1,020	1,200	1,130	2,660	6,250	4,350	3,790	2,040	2,030	1,270
29	1,520	1,270	946	1,200	-----	2,880	5,580	4,350	3,790	1,910	2,070	1,290
30	1,520	1,290	1,000	1,200	-----	3,370	5,110	4,290	3,800	1,990	2,110	1,290
31	1,480	-----	1,100	1,200	-----	3,530	-----	4,160	-----	2,000	2,140	-----
TOTAL	51,900	37,420	37,906	35,750	35,424	68,980	137,330	145,940	120,010	110,280	63,840	49,860
MEAN	1,674	1,247	1,223	1,153	1,265	2,225	4,578	4,000	3,557	2,059	2,059	1,662
MAX	1,800	1,340	1,430	1,500	1,400	3,530	7,210	5,630	4,770	4,050	2,250	2,010
MIN	1,480	1,170	946	920	924	1,050	3,690	4,160	3,790	1,910	1,960	1,060
AC-FT	102,900	74,220	75,190	70,910	70,260	136,800	272,400	289,500	238,000	218,700	126,600	98,900
CAL YR 1973	TOTAL	1,075,096	MEAN	2,945	MAX	14,500	MIN	700	AC-FT	2,132,000		
WTR YR 1974	TOTAL	894,640	MEAN	2,451	MAX	7,210	MIN	920	AC-FT	1,775,000		

PLATTE RIVER BASIN

06652700 GLENDO RESERVOIR NEAR GLENDO, WYO.

LOCATION.--Lat 42°28'21", long 104°57'28", in SW¼NE¼ sec.24, T.29 N., R.68 W., Platte County, on right bank in gate shaft house on North Platte River, 0.5 mi (0.8 km) southwest of Glendo Dam, and 5.0 mi (8.0 km) southeast of Glendo.

DRAINAGE AREA.--19,504 mi² (50,515 km²), of which 5,174 mi² (13,401 km²), including 3,959 mi² (10,254 km²) 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 (1,384.859 m). Datum of gage is 4,543.50 ft (1,384.859 m) 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, 499,200 acre-ft (616 hm³) Feb. 21, elevation, 4,633.01 ft (1,412.141 m); minimum daily, 55,980 acre-ft (69.0 hm³) Sept. 27, elevation, 4,567.15 ft (1,392.067 m).

Period of record: Maximum daily contents, 758,800 acre-ft (936 hm³) May 28, 1973, elevation, 4,650.94 ft (1,417.607 m); minimum daily (since appreciable storage was attained), 15,140 acre-ft (18.7 hm³) Sept. 28, 1966, elevation, 4,548.10 ft (1,386.261 m).

REMARKS.--Reservoir is formed by rock-fill dam completed in October 1957. Storage began Oct. 17, 1957. Capacity, 795,200 acre-ft (980 hm³) at elevation 4,653.00 ft (1,418.234 m), spillway crest. Dead storage, 11,500 acre-ft (14.2 hm³). Figures given herein represent total contents. Water is used for irrigation in North Platte River basin. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

4,567	55,530	4,610	278,300
4,570	64,780	4,620	363,400
4,580	100,900	4,630	464,700
4,590	146,900	4,634	511,100
4,600	206,000		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151,500	259,500	331,800	395,100	463,000	490,400	389,400	431,200	477,000	373,200	287,600	120,800
2	155,300	262,100	334,400	396,000	465,900	488,900	388,700	435,800	475,000	368,000	287,400	117,200
3	158,600	265,000	336,600	396,800	468,300	486,600	387,600	440,300	472,900	364,600	287,300	113,800
4	162,100	267,500	338,900	397,700	470,400	483,900	386,700	444,400	471,100	362,900	285,600	110,400
5	165,500	269,900	341,200	398,800	473,400	479,900	385,800	448,100	469,600	363,000	280,600	106,800
6	169,100	272,500	343,100	400,000	475,200	474,900	384,800	452,100	468,600	365,300	275,500	103,100
7	172,600	275,200	345,200	401,200	477,300	471,000	384,200	456,200	468,100	369,400	269,700	99,830
8	176,200	278,300	347,600	403,100	478,900	467,600	384,000	460,100	468,100	373,400	264,100	96,560
9	180,000	280,800	349,900	405,000	481,200	463,000	385,200	463,700	467,900	376,700	256,300	93,440
10	183,400	283,400	352,100	406,800	483,200	459,200	386,000	467,100	467,400	375,000	247,300	90,530
11	187,000	285,900	354,400	409,000	485,800	455,100	387,400	471,000	465,800	372,400	238,900	87,770
12	190,500	288,600	356,400	410,700	488,400	450,700	387,900	474,900	463,000	369,200	229,700	85,650
13	194,000	290,800	358,500	412,600	491,000	446,600	387,800	478,800	459,700	366,800	220,900	84,480
14	197,800	293,400	360,600	415,100	493,400	441,900	387,900	481,900	456,600	364,200	212,000	83,160
15	201,400	295,400	362,700	418,000	494,800	437,900	388,300	484,000	453,200	361,600	204,600	81,850
16	205,500	297,900	365,100	421,000	495,800	434,100	387,900	484,600	450,000	359,300	199,400	80,530
17	208,900	300,300	367,400	424,400	497,000	430,400	387,800	485,200	446,800	357,000	194,700	78,960
18	212,600	302,600	370,000	428,000	498,200	427,200	387,600	485,700	443,500	358,000	189,600	77,130
19	216,100	305,300	372,000	431,200	498,900	424,300	388,100	486,500	440,200	358,500	184,300	74,350
20	219,800	307,300	373,600	434,300	499,100	420,800	389,500	486,800	436,700	353,700	178,800	71,220
21	223,500	309,700	375,100	437,600	499,200	417,600	392,600	487,500	432,900	348,800	173,600	68,360
22	227,000	311,900	377,800	438,800	498,300	414,200	396,600	487,600	428,200	343,600	168,600	65,270
23	230,700	314,200	380,800	441,800	497,100	410,700	399,500	487,500	422,700	338,700	163,700	62,720
24	234,100	316,500	383,100	443,900	495,900	407,600	402,700	486,800	417,000	332,800	158,800	60,320
25	237,700	318,700	385,100	446,500	494,800	403,800	406,600	485,500	410,900	325,900	153,900	58,110
26	241,200	320,400	386,800	449,000	493,500	400,700	411,300	483,800	404,400	318,500	148,900	56,010
27	244,500	322,100	388,400	451,500	492,300	397,400	416,700	482,200	397,100	310,400	143,900	55,980
28	247,800	324,600	390,100	453,900	491,500	394,900	421,200	481,100	390,500	303,300	139,000	58,140
29	250,900	327,000	391,400	456,100	-----	392,500	424,600	480,100	384,700	296,900	134,200	60,380
30	253,900	329,900	392,900	458,400	-----	391,200	427,400	481,100	379,000	290,900	129,200	63,130
31	256,800	-----	394,100	460,700	-----	390,400	-----	479,300	-----	287,700	124,800	-----
MAX	256,800	329,900	394,100	460,700	499,200	490,400	427,400	487,600	477,000	376,700	287,600	120,800
MIN	151,500	259,500	331,800	395,100	463,000	390,400	384,000	431,200	379,000	287,700	124,800	55,980

(†) 4,607.19 4,616.26 4,623.23 4,629.64 4,632.35 4,622.85 4,626.53 4,631.30 4,621.66 4,611.19 4,585.52 4,569.48
 (‡) +108,900 +73,100 +64,200 +66,600 +30,800 -101,100 +37,000 +51,900 -100,300 -91,300 -162,900 -61,670

CAL YR 1973..... +117,200
 WTR YR 1974..... -84,770

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

PLATTE RIVER BASIN

129

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 mi (2.1 km) upstream from Horseshoe Creek, 3.1 mi (5.0 km) downstream from Glendo Dam, and 5.2 mi (8.4 km) southeast of Glendo.

DRAINAGE AREA.--19,507 mi² (50,523 km²), of which 5,174 mi² (13,401 km²), including 3,959 mi² (10,254 km²) 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 (1,368.229 m) above mean sea level (levels by Bureau of Reclamation).

EXTREMES.--Current year: Maximum discharge, 7,650 ft³/s (217 m³/s) June 27, gage height, 9.88 ft (3.011 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Oct. 15-17, Dec. 18.

Period of record: Maximum discharge, 9,700 ft³/s (275 m³/s) June 1, 6, 1973; maximum gage height, 10.97 ft (3.344 m) June 1, 1973; minimum daily discharge, 0.80 ft³/s (0.023 m³/s) Oct. 5, Dec. 3, 1966.

REMARKS.--Records good except those below 40 ft³/s (1.13 m³/s), 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.--Twenty-six discharge measurements furnished by Bureau of Reclamation.

REVISIONS.--WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	2.9	2.9	2.2	2.3	1,540	4,040	3,110	5,040	6,750	2,010	4,070
2	8.1	2.9	3.2	2.0	2.6	1,910	4,140	2,900	5,020	6,730	2,030	3,790
3	8.1	3.0	3.0	2.1	2.3	2,400	4,140	2,910	4,980	5,580	2,060	3,650
4	8.1	3.2	2.5	2.1	2.5	2,960	4,110	2,890	4,800	4,650	2,980	3,610
5	8.3	3.0	2.5	2.2	3.4	3,490	4,070	2,760	4,590	4,010	4,700	3,710
6	7.9	3.0	2.6	2.2	2.8	3,970	4,100	2,690	4,290	2,790	4,570	3,710
7	8.0	3.4	2.6	2.5	2.5	3,950	4,100	2,680	4,080	1,700	5,290	3,540
8	7.9	3.7	2.7	2.4	2.4	4,090	3,750	2,790	4,400	1,720	5,150	3,460
9	7.8	3.4	2.4	2.3	3.1	4,250	3,480	3,020	4,620	1,870	6,390	3,460
10	7.0	3.0	2.3	2.3	2.7	4,260	3,480	3,250	4,620	4,760	6,880	3,400
11	7.0	2.9	2.3	2.2	2.6	4,260	3,490	3,240	5,110	5,060	6,880	3,290
12	6.2	2.9	2.4	2.4	2.5	4,410	3,700	3,240	5,620	5,190	6,910	2,980
13	4.2	2.8	2.2	2.7	2.5	4,490	3,900	3,230	5,700	5,090	6,880	2,630
14	2.3	5.4	2.2	3.0	2.5	4,500	3,970	3,230	5,700	5,000	6,860	2,660
15	1.8	2.7	2.2	3.4	4.90	4,300	4,020	3,570	5,720	5,000	6,020	2,660
16	1.8	3.1	2.2	3.9	6.24	4,190	4,010	4,230	5,700	4,960	4,650	2,640
17	1.8	2.6	2.2	3.6	6.09	4,160	4,060	4,200	5,700	4,940	4,490	2,760
18	2.0	2.4	1.8	3.2	6.11	3,990	4,110	4,220	5,700	3,110	4,680	2,930
19	2.0	2.0	2.0	2.9	9.54	4,000	4,020	4,190	5,700	3,610	4,820	2,980
20	2.0	2.8	2.4	2.7	1,110	4,010	3,940	3,940	5,700	6,390	4,830	2,800
21	2.0	2.5	2.6	2.5	1,430	4,020	3,700	4,040	5,720	6,660	4,760	2,580
22	2.1	2.3	2.6	2.5	1,540	4,010	3,480	4,140	6,350	6,560	4,670	2,690
23	2.2	2.3	2.5	2.6	1,540	4,010	3,530	4,320	6,790	6,560	4,650	2,780
24	2.4	2.3	2.5	2.7	1,530	4,020	3,670	4,480	6,950	6,680	4,670	2,660
25	2.3	2.2	2.5	2.5	1,540	3,980	3,610	4,780	7,140	6,700	4,650	2,580
26	2.3	2.2	2.4	2.7	1,550	3,970	3,890	4,930	7,510	6,790	4,650	2,380
27	2.4	2.6	2.4	2.8	1,540	4,000	3,910	4,940	7,600	6,820	4,670	1,230
28	2.4	2.6	2.4	2.8	1,540	4,000	3,880	4,890	7,420	5,720	4,670	265
29	2.4	2.8	2.4	3.9	-----	3,970	3,840	4,850	6,930	5,230	4,670	201
30	2.6	2.8	2.4	2.9	-----	3,920	3,710	3,680	6,700	5,230	4,670	6.5
31	2.6	-----	2.4	2.2	-----	3,920	-----	4,980	-----	3,690	4,490	-----
TOTAL	135.9	113.6	75.7	82.4	16,644.7	118,950	116,050	116,320	171,900	155,750	150,300	82,102.5
MEAN	4.38	3.79	2.44	2.66	594	3,837	3,868	3,752	5,730	5,024	4,848	2,737
MAX	8.3	3.1	3.2	3.9	1,550	4,500	4,140	4,980	7,600	6,820	6,910	4,070
MIN	1.8	2.0	1.8	2.0	2.3	1,540	3,480	2,680	4,080	1,700	2,010	6.5
AC-FT	270	225	150	163	33,010	235,900	230,200	230,700	341,000	308,900	298,100	162,900

CAL YR 1973 TOTAL 1,004,636.7 MEAN 2,752 MAX 9,640 MIN 1.0 AC-FT 1,993,000
WTR YR 1974 TOTAL 928,424.8 MEAN 2,544 MAX 7,600 MIN 1.8 AC-FT 1,842,000

PLATTE RIVER BASIN

06654550 COTTONWOOD CREEK NEAR BINFORD, WYO.

LOCATION.--Lat 42°18'01", long 105°11'12", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.27 N., R.70 W., Platte County, on right bank 8.5 mi (13.7 km) southeast of Binford and 20 mi (32 km) northwest of Wheatland.

DRAINAGE AREA.--61.0 mi² (158.0 km²).

PERIOD OF RECORD.--October 1973 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 52 ft³/s (1.47 m³/s) Apr. 19, gage height 2.27 ft (0.692 m); no flow July 29 to Sept. 30.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 125 acres (50.6 hm²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.5	1.5	1.0	.73	.68	3.5	24	6.9	2.3		
2	4.7	3.5	1.5	.91	.73	.68	4.1	22	6.2	1.8		
3	4.6	3.6	1.5	.88	.73	.73	5.5	24	5.2	2.3		
4	4.5	3.8	1.5	.91	.73	.94	5.2	23	3.8	3.2		
5	4.5	3.9	1.5	.94	.68	.90	5.2	21	2.8	2.8		
6	4.5	4.0	1.5	.86	.62	.86	6.9	20	3.5	2.3		
7	4.5	4.2	1.4	.86	.64	.86	9.7	25	4.8	2.0		
8	4.5	4.4	1.4	.86	.64	.94	12	20	9.6	2.0		
9	4.5	4.2	1.4	.86	.68	.94	12	21	36	1.8		
10	4.5	3.8	1.4	.86	.75	1.1	12	20	23	1.8		
11	4.5	3.5	1.4	.73	.78	1.2	13	20	18	1.7		
12	4.6	3.2	1.2	.68	.76	1.2	12	18	16	1.7		
13	4.4	2.8	1.2	.73	.73	1.4	14	15	14	1.5		
14	4.3	2.8	1.2	.73	.68	1.4	13	12	12	1.5		
15	4.3	3.2	1.2	.73	.68	1.4	14	9.7	10	1.5		
16	4.3	2.8	1.2	.73	.63	1.4	22	9.0	9.7	1.4		
17	4.3	2.6	1.2	.73	.63	1.4	36	8.3	9.4	1.2		
18	4.2	2.6	1.2	.73	.63	1.4	42	14	8.7	1.1		
19	4.0	2.6	1.2	.79	.63	2.0	46	14	8.3	1.1		
20	3.9	2.3	1.2	.79	.59	2.3	42	15	6.9	1.0		
21	3.8	2.0	1.1	.79	.58	1.8	40	12	4.8	.94		
22	3.7	2.0	1.1	.79	.63	1.8	38	9.4	3.8	.94		
23	3.6	1.8	1.1	.79	.62	1.8	37	8.7	3.5	.86		
24	3.5	1.7	1.2	.79	.63	1.5	35	8.0	3.5	.73		
25	3.4	1.7	1.2	.79	.68	1.7	36	7.6	3.2	.63		
26	3.3	1.5	1.2	.79	.68	1.8	42	7.2	3.2	.55		
27	3.4	1.7	1.1	.79	.68	2.3	43	7.6	3.5	.43		
28	3.4	1.5	1.1	.79	.68	2.8	35	8.0	3.5	.17		
29	3.4	1.5	1.1	.79	-----	3.2	30	8.3	3.2	0		
30	3.4	1.5	1.1	.79	-----	3.2	27	8.3	2.8	0		
31	3.4	-----	1.1	.73	-----	3.5	-----	7.6	-----	0		
TOTAL	126.6	84.2	39.2	24.94	18.85	49.13	693.1	442.7	249.8	41.25	0	0
MEAN	4.08	2.81	1.26	.80	.67	1.58	23.1	14.3	8.33	1.33	0	0
MAX	4.7	4.4	1.5	1.0	.78	3.5	46	24	36	3.2	0	0
MIN	3.3	1.5	1.1	.68	.58	.68	3.5	7.2	2.8	0	0	0
AC-FT	251	167	78	49	37	97	1,370	878	495	82	0	0

WTR YR 1974 TOTAL 1,769.77 MEAN 4.85 MAX 46 MIN 0 AC-FT 3,510

NOTE.--No gage-height record Oct. 1 to Nov. 12.

06655000 COTTONWOOD CREEK AT WENDOVER, WYO.

LOCATION.--Lat 42°19'33", long 104°52'33", in SE¼NW¼SE¼ sec.10, T.27 N., R.67 W., Platte county, on left bank 0.1 mi (0.2 km) southwest of Wendover and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--196 mi² (508 km²).

PERIOD OF RECORD.--April 1916 to September 1924, May 1929 to September 1933, April 1935 to September 1942, April 1946 to September 1955, October 1973 to September 1974 (discontinued). No winter records prior to 1936 except for water years 1930-32. Monthly discharge only for some periods, published in WSP 1310. Published as "near Wendover" 1916-24.

GAGE.--Water-stage recorder. Altitude of gage is 4,450 ft (1,356 m), from topographic map. Apr. 19, 1916, to Sept. 30, 1924, May 1, 1929, to Sept. 30, 1933, and Apr. 1 to May 23, 1935, nonrecording gages within 0.8 mi (1.3 km) upstream; May 24, 1935, to Sept. 30, 1942, water-stage recorder at site 50 ft (15 m) upstream; all at different datums. Apr. 6, 1946, to Sept. 30, 1955, water-stage recorder at site 200 ft (61 m) downstream at present datum.

AVERAGE DISCHARGE.--20 years (1929-32, 1935-42, 1946-55, 1973-74), 5.64 ft³/s (0.160 m³/s), 4,090 acre-ft/yr (5.04 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 36 ft³/s (1.02 m³/s) Apr. 19, gage height, 5.60 ft (1.707 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Aug. 18-20.

Period of record: Maximum discharge, 4,140 ft³/s (117 m³/s) Sept. 23, 1940, gage height, 12.13 ft (3.697 m), site and datum then in use, from floodmark, from rating curve extended above 140 ft³/s (3.96 m³/s), on basis of slope-area measurements at gage heights 7.57 ft (2.307 m) and 12.13 ft (3.697 m); no flow July 12, 15, 1932.

Maximum discharge known, about 5,800 ft³/s (164 m³/s) Aug. 15, 1927, gage height, 10.6 ft (3.23 m), from floodmark, site and datum of 1929, by slope-area measurement.

REMARKS.--Records good. Diversion for irrigation of about 1,500 acres (6.07 km²) above station. Two small reservoirs above station, combined capacity, about 20 acre-ft (0.025 hm³), for irrigation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.3	8.3	5.5	7.9	7.2	6.9	17	4.9	3.5	3.8	3.2
2	11	8.3	8.3	5.2	7.6	7.6	7.2	14	4.9	3.5	4.2	3.2
3	10	8.6	8.3	4.9	7.2	7.6	7.9	13	4.5	3.8	4.2	3.2
4	10	9.6	8.3	4.5	7.2	7.2	7.2	13	4.2	4.2	3.8	3.2
5	10	10	7.9	4.9	7.2	7.2	7.6	13	4.2	4.2	3.8	3.2
6	10	10	7.9	5.2	5.9	7.6	7.2	12	4.9	5.2	3.5	3.2
7	10	10	8.6	5.2	6.9	7.2	7.2	10	4.9	5.5	3.8	3.2
8	10	11	8.3	5.2	6.6	7.2	7.2	8.6	6.9	4.9	3.5	3.2
9	10	10	7.9	5.5	6.9	7.2	7.2	9.3	7.6	4.5	3.8	3.2
10	10	10	8.3	5.5	8.3	7.2	7.2	9.3	8.6	4.5	3.8	2.8
11	11	10	7.9	5.2	8.3	6.9	7.6	8.9	8.3	4.2	3.5	3.5
12	10	9.6	7.9	5.2	7.6	6.9	8.6	8.9	7.9	4.2	3.5	3.5
13	10	9.3	7.6	5.2	7.6	6.9	8.9	8.3	6.2	3.8	3.2	3.5
14	10	8.9	7.6	6.9	6.9	7.2	8.3	7.9	5.5	3.8	3.2	3.5
15	10	8.6	7.6	13	6.9	7.2	8.9	7.9	5.2	3.5	2.8	3.2
16	10	8.3	7.6	13	7.2	7.2	8.9	7.6	5.9	3.5	2.8	3.2
17	10	8.3	7.6	11	6.9	6.9	11	7.9	6.6	3.5	2.8	3.2
18	10	8.6	6.9	10	6.9	7.2	21	7.9	6.2	3.5	2.5	2.8
19	10	9.3	6.2	9.6	6.9	7.6	30	7.2	5.5	3.2	2.5	2.8
20	9.6	8.6	6.9	8.9	6.9	6.9	32	6.9	4.9	3.2	2.5	3.2
21	9.6	9.3	8.3	8.9	6.2	6.9	30	6.2	3.8	3.5	2.8	3.2
22	9.6	8.6	8.9	7.2	6.6	7.2	30	6.5	3.5	3.2	2.8	3.2
23	8.6	8.6	7.9	7.9	6.9	7.2	29	6.6	3.2	3.5	2.8	3.2
24	8.3	8.3	7.6	7.9	6.2	6.9	29	5.9	3.2	3.5	2.8	3.2
25	8.3	8.3	7.2	8.3	6.9	7.2	25	5.9	3.2	3.5	2.8	3.2
26	7.9	8.3	7.2	8.3	7.9	6.9	24	5.9	3.5	3.5	3.2	3.2
27	8.3	7.9	5.9	7.9	7.6	6.9	26	5.9	3.5	3.5	3.2	3.2
28	7.9	8.3	7.2	7.9	7.2	6.9	24	5.9	3.8	3.5	2.8	3.2
29	7.9	7.9	5.5	7.9	-----	7.2	21	6.9	3.8	3.5	3.2	3.2
30	7.9	8.3	6.6	7.6	-----	7.2	19	6.6	3.5	3.5	3.2	3.2
31	7.9	-----	5.5	7.2	-----	6.9	-----	5.2	-----	3.8	3.2	-----
TOTAL	294.8	269.1	233.7	226.6	199.3	221.5	475.0	266.2	152.8	118.7	100.3	96.0
MEAN	9.51	8.97	7.54	7.31	7.12	7.15	15.8	8.53	5.09	3.83	3.24	3.20
MAX	11	11	8.9	13	8.3	7.6	32	17	8.6	5.5	4.2	3.5
MIN	7.9	7.9	5.5	4.5	5.9	6.9	6.9	5.2	3.2	3.2	2.5	2.8
AC-FT	585	534	464	449	395	439	942	528	303	235	199	190

WTR YR 1974 TOTAL 2,654.0 MEAN 7.27 MAX 32 MIN 2.5 AC-FT 5,260

PEAK DISCHARGE (BASE, 120 FT³/S).--No peak above base.

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 mi (1.9 km) northwest of Guernsey.

DRAINAGE AREA.--20,183 mi² (52,274 km²), of which 5,175 mi² (13,403 km²), including 3,959 mi² (10,254 km²) 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 (1,331.976 m) above sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level. Prior to Sept. 20, 1966, nonrecording gages at same datum.

EXTREMES.--Current year: Maximum daily contents, 37,140 acre-ft (45.8 hm³) Feb. 28, elevation, 4,416.44 ft (1,346.131 m); minimum daily, 100 acre-ft (0.123 hm³) Oct. 11, 16; minimum daily elevation, 4,369.89 ft (1,331.939 m), Oct. 16.

Period of record: Maximum daily contents, 73,240 acre-ft (90.3 hm³) Oct. 17, 1929, elevation, 4,420.95 ft (1,347.506 m); minimum daily, 30 acre-ft (0.0370 hm³) Oct. 5, 6, 1958, elevation, 4,361.50 ft (1,329.385 m), and Oct. 18 to Nov. 3, 1969, elevation, 4,367.70 ft (1,331.275 m).

REMARKS.--Reservoir is formed by rock-fill dam completed in July 1927. Capacity, 45,230 acre-ft (55.8 hm³) at elevation 4,420 ft (1,347.2 m), 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)

4,369	63	4,390	3,530	4,410	24,140
4,375	480	4,395	5,870	4,415	34,040
4,380	1,060	4,400	9,840	4,417	38,360
4,385	2,010	4,405	15,940		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,810	120	2,520	5,230	8,140	36,900	34,620	35,710	33,670	36,090	23,230	25,880
2	15,640	150	2,610	5,280	8,260	36,090	34,870	35,810	34,620	36,520	17,190	25,730
3	13,370	150	2,720	5,320	8,290	35,280	35,220	35,920	35,510	36,050	11,000	25,450
4	11,220	150	2,810	5,340	8,410	34,640	35,470	35,960	36,110	34,320	4,800	25,220
5	9,120	150	2,880	5,360	8,500	34,000	35,490	35,920	36,520	32,060	3,900	25,090
6	6,930	150	2,970	5,360	8,670	33,650	35,710	35,560	36,480	27,820	2,700	25,480
7	5,050	150	3,080	5,570	8,760	33,440	35,860	35,070	36,160	20,800	2,770	25,840
8	3,720	150	3,170	5,640	8,830	33,270	35,660	34,700	35,750	13,590	2,890	26,050
9	2,870	120	3,240	5,700	8,920	33,230	34,360	34,720	35,430	6,300	4,550	26,320
10	2,050	110	3,350	5,770	8,990	33,380	36,740	35,000	35,150	4,270	8,470	26,660
11	100	110	3,450	5,830	9,110	33,540	36,090	35,040	34,600	3,650	12,170	26,660
12	110	120	3,530	5,840	9,190	33,850	35,150	35,020	34,530	3,490	15,980	26,900
13	110	250	3,630	5,950	9,260	34,530	34,940	35,040	34,750	3,480	19,800	26,320
14	120	410	3,720	6,020	9,350	35,110	34,750	34,830	35,000	3,240	23,670	25,760
15	120	570	3,800	6,100	9,470	35,470	34,700	34,430	35,240	3,010	26,690	25,220
16	100	710	3,900	6,290	10,810	35,540	34,680	34,700	35,470	3,000	26,640	24,770
17	110	920	3,980	6,470	12,140	35,640	34,680	35,280	35,750	3,060	26,120	24,440
18	130	1,070	4,090	6,640	13,420	35,540	35,090	35,730	35,900	4,310	25,840	24,420
19	130	1,200	4,150	6,770	15,050	35,490	35,620	36,310	35,750	3,540	25,990	24,640
20	140	1,300	4,230	6,920	17,320	35,390	35,880	36,310	35,240	6,830	26,300	24,850
21	140	1,440	4,300	7,060	19,820	35,360	35,790	35,790	34,320	11,260	26,410	24,380
22	130	1,560	4,420	7,130	23,090	35,320	35,170	34,920	33,880	14,750	26,220	24,120
23	120	1,680	4,520	7,260	26,280	35,300	34,510	34,260	34,020	17,380	26,030	24,080
24	120	1,790	4,620	7,360	29,410	35,280	34,230	33,880	34,060	19,720	25,800	23,900
25	120	1,900	4,690	7,440	32,560	35,260	34,040	33,690	34,060	22,330	25,650	23,810
26	120	2,000	4,760	7,570	34,980	35,130	34,210	33,960	34,660	25,300	25,620	24,470
27	120	2,110	4,830	7,670	36,550	35,110	34,620	34,230	35,190	28,370	25,500	24,550
28	120	2,210	4,930	7,770	37,140	35,130	34,770	35,090	36,000	30,150	25,500	22,160
29	120	2,310	5,000	7,840	-----	35,020	34,810	35,150	36,180	30,410	25,450	19,950
30	120	2,400	5,100	7,950	-----	34,870	34,980	32,940	36,160	30,570	25,620	17,890
31	120	-----	5,170	8,060	-----	34,700	-----	33,190	-----	29,170	25,970	-----
MAX	17,810	2,400	5,170	8,060	37,140	36,900	36,740	36,310	36,520	36,520	26,690	26,900
MIN	100	110	2,520	5,230	8,140	33,230	34,040	32,940	33,670	3,000	2,700	17,890

(†) 4,370.28 4,386.50 4,393.72 4,398.08 4,416.44 4,415.31 4,415.44 4,414.59 4,415.99 4,412.62 4,410.98 4,406.31
 (‡) -19,860 +2,280 +2,770 +2,890 +29,080 -2,440 +280 -1,790 +2,970 -6,990 -3,200 -8,080

CAL YR 1973..... +1,740

WTR YR 1974..... -2,090

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WYO.

LOCATION.--Lat 42°16'50", long 104°45'15", in SE4SE4 sec.27, T.27 N., R.66 W., Platte County, on right bank 1.0 mi (1.6 km) northwest of Guernsey and 1.1 mi (1.8 km) downstream from Guernsey Dam.

DRAINAGE AREA.--20,196 mi² (52,308 km²), of which 5,175 mi² (13,403 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing. Area at site used May 1909 to December 1927, 20,277 mi² (52,517 km²).

PERIOD OF RECORD.--June 1900 to current year (no winter records prior to 1903). Monthly discharge only for some periods, published in WSP 1310. Published as "near Guernsey" 1900-1901, 1904; as "at Guernsey" 1902-3, 1905-8, March to October 1912; as "at Whalen" 1909; as North Platte River and Interstate Canal at Whalen 1910-11, 1913-16; and as "above Whalen" 1917-27.

GAGE.--Water-stage recorder. Altitude of gage is 4,340 ft (1,323 m), from topographic map. Prior to Nov. 17, 1908, and Mar. 30 to Oct. 31, 1912, nonrecording gages downstream at several sites within 0.8 mi (1.3 km) at different datums. May 1, 1909, to Dec. 31, 1927, nonrecording gages at different datums on river and diversion canals at Whalen Dam about 9.0 mi (14.5 km) downstream. Jan. 1, 1928, to Sept. 30, 1964, water-stage recorder at present site and datum 1.50 ft (0.457 m) higher.

EXTREMES.--Current year: Maximum discharge, 7,080 ft³/s (200 m³/s) June 28, gage height, 7.13 ft (2.173 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Nov. 19.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) June 2 or 3, 1908, gage height, 11.5 ft (3.51 m), from floodmark, site and datum then in use, from rating curve extended above 13,000 ft³/s (368 m³/s); no flow Feb. 28, 1927, Nov. 19 to Dec. 8, Dec. 10-12, 14, 15, 1951.

REMARKS.--Records good except those below 500 ft³/s (14.2 m³/s), which are poor. Flow completely regulated by Guernsey Reservoir since 1927. (See sta 06655500.) Small diversions for irrigation between this station and diversion dam at Whalen. 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.--Twenty-eight discharge measurements furnished by Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 1310: 1903-4, 1924. WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,480	62	1.9	2.8	2.3	1,770	4,030	3,030	4,640	6,710	4,860	3,900
2	1,430	60	2.3	2.8	2.3	2,220	4,030	3,050	4,550	6,510	4,900	3,640
3	1,450	60	1.9	2.8	2.3	2,640	4,050	3,030	4,620	6,020	4,900	3,520
4	1,420	76	1.9	2.8	2.3	3,060	4,070	3,050	4,660	5,700	4,900	3,470
5	1,370	66	1.9	2.8	2.3	3,570	4,070	3,050	4,660	5,450	4,920	3,410
6	1,380	76	1.9	2.8	2.3	3,890	4,090	3,060	4,610	5,450	4,860	3,280
7	1,320	69	2.3	2.8	2.3	4,070	4,100	3,050	4,400	5,450	4,880	3,180
8	975	69	2.3	2.8	2.3	4,070	4,140	3,050	4,610	5,480	4,860	3,160
9	673	72	1.9	2.3	2.3	4,070	4,140	3,060	4,780	5,430	4,780	3,130
10	599	66	1.9	2.3	2.3	4,100	2,360	3,230	4,780	5,450	4,680	3,110
11	1,080	62	2.3	2.3	2.3	4,100	3,940	3,310	5,170	5,370	4,620	3,100
12	110	62	2.8	2.3	2.3	4,120	4,050	3,310	5,500	5,320	4,590	2,940
13	80	37	2.3	2.3	2.3	4,140	4,050	3,330	5,520	5,220	4,530	2,810
14	69	1.5	2.8	2.3	2.3	4,140	4,070	3,310	5,520	5,130	4,510	2,800
15	66	1.9	2.8	2.3	2.3	4,160	4,070	3,640	5,520	5,070	4,470	2,770
16	69	1.6	2.8	2.3	2.3	4,160	4,050	4,010	5,540	4,960	4,490	2,730
17	66	1.6	2.8	2.3	2.3	4,160	4,050	4,010	5,520	4,860	4,490	2,720
18	62	1.6	2.8	2.3	2.3	4,090	4,050	3,990	5,610	3,550	4,490	2,690
19	62	1.0	2.8	2.3	2.3	4,030	4,030	3,990	5,740	3,500	4,490	2,690
20	62	1.9	2.8	2.3	2.3	4,030	4,010	4,010	5,900	3,970	4,450	2,700
21	66	1.9	2.8	2.3	2.3	4,030	3,990	4,280	6,090	4,280	4,470	2,720
22	66	1.6	2.8	2.3	2.3	4,030	3,990	4,590	6,230	4,570	4,470	2,690
23	66	1.6	2.8	2.3	2.3	4,030	3,950	4,620	6,440	4,980	4,470	2,720
24	66	1.6	2.8	2.3	2.3	4,030	3,970	4,660	6,660	5,050	4,430	2,750
25	66	1.6	2.8	2.3	2.3	4,030	3,990	4,740	6,730	4,980	4,400	2,540
26	69	1.9	2.8	2.3	358	4,050	4,010	4,820	6,830	4,860	4,280	2,220
27	66	1.9	2.8	2.3	838	4,030	3,990	4,840	6,940	4,820	4,260	1,900
28	66	1.9	2.8	2.3	1,320	4,030	3,990	4,590	6,830	4,840	4,280	1,590
29	60	2.3	2.8	2.3	-----	4,030	3,990	4,800	6,610	4,840	4,280	1,430
30	62	1.9	2.8	2.3	-----	4,030	3,850	4,800	6,610	4,840	4,150	1,240
31	60	-----	2.8	2.3	-----	4,030	-----	4,780	-----	4,840	4,060	-----
TOTAL	14,536	866.3	78.0	75.3	2,573.5	118,940	119,170	119,090	167,820	157,500	141,220	83,550
MEAN	469	28.9	2.52	2.43	91.9	3,837	3,972	3,842	5,594	5,081	4,555	2,785
MAX	1,480	76	2.8	2.8	1,320	4,160	4,140	4,840	6,940	6,710	4,920	3,900
MIN	60	1.0	1.9	2.3	2.3	1,770	2,360	3,030	4,400	3,500	4,060	1,240
AC-FT	28,830	1,720	155	149	5,100	235,900	236,400	236,200	332,900	312,400	280,100	165,700

CAL YR 1973 TOTAL 1,052,089.7 MEAN 2,882 MAX 9,660 MIN 1.0 AC-FT 2,087,000
WTR YR 1974 TOTAL 925,419.1 MEAN 2,535 MAX 6,940 MIN 1.0 AC-FT 1,836,000

06657000 NORTH PLATTE RIVER AT RECORDER STATION, BELOW WHALEN, WYO.

LOCATION.--Lat 42°14'20", long 104°36'29", in NE4SW4 sec.12, T.26 N., R.65 W., Goshen County, on left bank 0.2 mi (0.3 km) downstream from Cottonwood Draw, 2.5 mi (4.0 km) downstream from Whalen Dam, and 4.8 mi (7.7 km) northwest of Fort Laramie.

DRAINAGE AREA.--20,384 mi² (52,795 km²), of which 5,178 mi² (13,411 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing. Area at site used prior to Apr. 16, 1938, 20,277 mi² (52,517 km²).

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 (1,295 m), from topographic map. Prior to Apr. 16, 1938, nonrecording gages at Whalen Dam and canals 2.5 mi (4.0 km) upstream at different datums. Apr. 16, 1938, to Nov. 17, 1955, water-stage recorder at site 200 ft (61 m) downstream, and Nov. 18, 1955, to Feb. 16, 1972, at present site at datum 1.00 ft (0.305 m) higher.

EXTREMES.--Current year: Maximum discharge, 4,270 ft³/s (121 m³/s) Mar. 10, gage height, 5.49 ft (1.673 m); minimum daily, 0.83 ft³/s (0.024 m³/s) Jan. 7, 8, 13.

Period of record: Maximum discharge determined, 22,000 ft³/s (623 m³/s) June 26, 1955, gage height, 9.85 ft (3.002 m), from rating curve extended above 4,500 ft³/s (127 m³/s) 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. Flow regulated by Whalen Dam 2.5 mi (4.0 km) 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.--Twenty-one discharge measurements furnished by Bureau of Reclamation.

REVISIONS (WATER YEARS).--WSP 1310: 1924. WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	79	6.8	2.0	1.9	1,560	4,100	2,210	1,280	3,050	1,400	663
2	226	81	6.2	1.9	1.9	2,200	4,140	2,150	1,170	2,990	1,420	528
3	214	81	6.5	1.7	1.6	2,690	4,120	2,120	1,140	2,380	1,440	422
4	190	81	6.2	1.6	1.5	3,150	4,140	2,120	1,130	2,080	1,420	415
5	122	87	6.2	1.4	1.4	3,580	4,140	2,100	1,110	1,720	1,400	408
6	107	96	6.0	1.1	1.4	3,900	4,150	2,000	1,070	1,710	1,330	332
7	104	92	5.7	.83	1.6	4,140	4,120	1,790	1,060	1,680	1,300	254
8	136	94	5.4	.83	1.7	4,140	4,170	1,650	1,530	1,720	1,320	238
9	177	92	4.9	.96	1.7	4,190	4,170	1,360	2,050	1,680	1,280	226
10	515	92	5.4	1.1	2.0	4,240	2,850	945	2,180	1,640	1,220	198
11	1,140	85	5.2	1.2	2.2	4,220	3,590	1,060	2,480	1,600	1,130	206
12	603	83	4.9	.96	2.0	4,220	4,040	934	2,870	1,640	1,120	262
13	226	81	4.9	.83	1.9	4,220	4,040	800	2,890	1,640	1,070	254
14	183	48	4.6	1.7	3.1	4,200	4,050	645	2,890	1,580	1,050	238
15	166	25	4.3	3.4	2.9	4,200	4,070	736	2,890	1,580	1,040	246
16	144	19	4.3	4.9	2.5	4,200	4,090	1,140	2,920	1,490	1,050	222
17	139	16	4.3	4.6	2.4	4,190	4,050	1,020	2,870	1,520	1,040	226
18	127	15	4.9	5.4	2.4	4,120	4,020	934	2,910	1,730	1,020	198
19	120	13	4.3	4.6	3.6	4,070	4,070	850	2,920	1,500	1,010	198
20	114	11	3.8	3.4	6.8	4,050	4,020	730	2,990	1,530	978	187
21	112	12	4.3	3.6	7.9	4,050	4,000	860	3,130	1,570	978	198
22	104	11	4.1	3.3	13	4,050	3,780	1,280	3,290	1,540	1,020	166
23	100	10	4.1	2.7	11	4,090	3,500	1,250	3,450	1,600	1,020	163
24	100	9.3	3.8	2.5	9.2	4,090	3,230	1,340	3,660	1,650	1,020	159
25	96	9.0	3.3	2.5	7.6	4,100	3,190	1,370	3,580	1,600	989	163
26	92	8.6	3.4	2.4	6.2	4,120	3,190	1,460	3,530	1,460	923	187
27	85	8.2	3.3	2.0	528	4,090	3,160	1,440	3,530	1,420	870	408
28	85	7.9	3.4	1.9	880	4,050	3,150	1,200	3,320	1,420	890	552
29	81	7.9	3.1	1.7	-----	4,090	3,070	1,230	3,030	1,420	912	471
30	81	7.6	3.3	1.7	-----	4,120	3,050	1,410	3,080	1,410	840	250
31	79	-----	2.7	1.7	-----	4,100	-----	1,410	-----	1,400	740	-----
TOTAL	6,083	1,362.5	143.6	70.41	1,509.4	120,430	113,460	41,544	75,950	52,950	34,240	8,638
MEAN	196	45.4	4.63	2.27	53.9	3,885	3,782	1,340	2,532	1,708	1,105	288
MAX	1,140	96	6.8	5.4	880	4,240	4,170	2,210	3,660	3,050	1,440	663
MIN	79	7.6	2.7	.83	1.4	1,560	2,850	645	1,060	1,400	740	159
AC-FT	12,070	2,700	285	140	2,990	238,900	225,000	82,400	150,600	105,000	67,920	17,130
CAL YR 1973	TOTAL	624,008.23	MEAN	1,710	MAX	7,430	MIN	.49	AC-FT	1,238,000		
WTR YR 1974	TOTAL	456,380.91	MEAN	1,250	MAX	4,240	MIN	.83	AC-FT	905,200		

06657500 LARAMIE RIVER NEAR GLENDEVEY, COLO.

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 (61 m) downstream from bridge on county road, 350 ft (110 m) downstream from Nunn Creek, 1,300 ft (400 m) upstream from Stub Creek, and 3.0 mi (4.8 km) east of Glendevy.

DRAINAGE AREA.--101 mi² (262 km²).

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 Glendevy" 1905, 1910-18.

GAGE.--Water-stage recorder. Altitude of gage is 8,230 ft (2,509 m), from topographic map. See WSP 1730 for history of changes prior to Sept. 20, 1935.

AVERAGE DISCHARGE.--65 years, 74.0 ft³/s (2.096 m³/s), 53,610 acre-ft/yr (66.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, about 710 ft³/s (20.1 m³/s) June 17, gage height, about 3.0 ft (0.91 m); minimum daily, 16 ft³/s (0.45 m³/s) Jan. 3.

Period of record: Maximum discharge, 2,240 ft³/s (63.4 m³/s) June 9, 1923, gage height, 4.55 ft (1.387 m), site and datum then in use, from floodmarks, from rating curve extended above 1,400 ft³/s (40 m³/s); minimum daily recorded, 5.0 ft³/s (0.14 m³/s) Feb. 14, 15, 1911, but may have been less during winter periods of no gage-height record.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Diversions for irrigation of about 700 acres (2.83 km²) of hay meadows above station. Transbasin diversions above station to Cache la Poudre River and tributaries (see elsewhere in this report).

REVISIONS (WATER YEARS).--WSP 469: 1911-12. WSP 506: Drainage area. WSP 1310: 1905, 1914. WSP 1918: 1918 (monthly runoff).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	26	23	18	18	17	24	100	326	115	35	36
2	49	20	22	18	18	17	24	100	291	105	32	41
3	42	21	22	16	18	18	22	100	283	88	31	42
4	36	31	21	18	16	19	22	112	279	78	28	37
5	34	38	20	18	18	19	20	141	302	69	29	34
6	32	33	19	19	18	18	20	180	300	62	27	33
7	31	32	19	20	18	18	20	211	247	59	25	32
8	27	35	19	20	18	18	20	250	218	55	25	31
9	28	35	19	20	18	19	22	357	337	58	25	32
10	32	32	19	20	18	18	22	436	412	54	28	30
11	33	31	19	20	18	19	24	340	375	48	24	30
12	31	33	19	20	18	20	24	325	354	43	22	42
13	34	38	19	20	18	20	26	353	394	42	23	45
14	37	35	19	20	18	19	28	271	445	39	21	45
15	37	29	19	20	18	19	30	270	545	45	20	41
16	36	30	19	20	18	20	32	351	586	55	20	38
17	34	27	19	20	18	23	34	427	654	82	19	35
18	32	29	19	20	18	25	36	463	624	67	19	33
19	31	26	19	20	18	24	40	545	616	64	19	32
20	30	26	19	19	18	22	45	536	607	57	19	31
21	29	25	19	18	18	21	50	414	565	68	18	30
22	28	23	19	18	17	20	55	345	519	79	18	29
23	27	23	19	18	17	19	60	344	425	60	18	28
24	26	23	19	18	17	19	70	304	256	52	17	28
25	23	23	19	18	17	20	80	304	236	52	17	27
26	24	23	19	18	17	20	100	335	197	43	17	27
27	25	23	19	18	17	21	120	393	184	41	30	27
28	25	23	19	18	17	22	140	467	161	40	41	30
29	25	23	19	18	-----	24	140	439	140	50	40	29
30	26	23	19	18	-----	26	120	416	128	54	38	28
31	26	-----	19	18	-----	26	-----	355	-----	40	37	-----
TOTAL	982	839	602	584	497	630	1,470	9,984	11,006	1,864	782	1,003
MEAN	31.7	28.0	19.4	18.8	17.8	20.3	49.0	322	367	60.1	25.2	33.4
MAX	52	38	23	20	18	26	140	545	654	115	41	45
MIN	23	20	19	16	17	17	20	100	128	39	17	27
AC-FT	1,950	1,660	1,190	1,160	986	1,250	2,920	19,800	21,830	3,700	1,550	1,990

CAL YR 1973 TOTAL 30,220 MEAN 82.8 MAX 820 MIN 14 AC-FT 59,940
WTR YR 1974 TOTAL 30,243 MEAN 82.9 MAX 654 MIN 16 AC-FT 59,990

NOTE.--No gage-height record Mar.29 to May 2, June 16-21.

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 (30 m) upstream from diversion dam for Pioneer Canal, 2.2 mi (3.5 km) downstream from Fox Creek, 2.5 mi (4.0 km) northeast of Woods, and 23 mi (37 km) 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 (122 m) downstream from headgate.

DRAINAGE AREA.--434 mi² (1,124 km²). Drainage area at mouth, 4,565 mi² (11,823 km²).

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year (no winter records since 1972). 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 (2,252.164 m) 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 (27 m) downstream between dam crest and canal headgates at datum 1.00 ft (0.305 m) higher. Sept. 23, 1915, to Sept. 30, 1924, Apr. 19 to Sept. 30, 1927, and Apr. 11, 1932, to Sept. 30, 1935, water-stage recorder at site 50 ft (15 m) downstream at datum 1.00 ft (0.305 m) higher. Oct. 1, 1935, to July 13, 1950, water-stage recorder at site 50 ft (15 m) downstream at present datum.

Canal: Water-stage recorder and Parshall flume. Altitude of gage is 7,390 ft (2,250 m), 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 mi (2.4 km) downstream at different datums. Apr. 27, 1966, to May 8, 1967, at present site, at datum 0.06 ft (0.018 m) lower.

EXTREMES (combined flow river and canal).--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) May 10, minimum daily during period of operation, 39 ft³/s (1.10 m³/s) Aug. 27.

Period of record: Maximum discharge, 5,060 ft³/s (143 m³/s) June 10, 1923 (river discharge by computation of peak flow over dam); minimum daily (1950-72), 10 ft³/s (0.28 m³/s) Aug. 30, Sept. 2-5, 1954.

REMARKS.--Records good. Pioneer Canal diverts from left bank of river at diversion dam 100 ft (30 m) 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 (0.740 km³) for irrigation, stock water, and domestic use. Diversions for irrigation of about 5,200 acres (21.0 km²) above station. Trans-basin diversions above station to Cache la Poudre River and tributaries (see page 155).

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

REVISIONS (WATER YEARS).--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							93	339	941	276	97	57
2							93	424	851	254	97	58
3							90	419	798	223	92	70
4							85	454	762	201	87	69
5							87	496	834	184	90	62
6							86	606	941	170	87	57
7							86	753	836	154	83	54
8							94	890	787	154	79	52
9							82	1,170	821	154	80	53
10							90	1,360	1,120	149	88	53
11							96	1,170	1,050	142	88	50
12							87	1,050	845	122	76	64
13							85	1,150	840	114	70	83
14							86	904	898	108	68	87
15							84	789	978	102	61	86
16							83	879	1,100	103	58	83
17							90	1,090	1,160	154	55	73
18							114	1,140	1,190	169	51	67
19							151	1,280	1,110	181	48	66
20							151	1,320	1,050	161	47	70
21							155	1,130	995	140	45	68
22							137	974	923	199	44	70
23							172	925	856	210	44	67
24							191	915	653	169	42	63
25							281	883	578	148	40	60
26							386	931	506	125	40	60
27							455	1,070	458	110	39	59
28							390	1,150	401	107	46	69
29							351	1,200	330	104	63	74
30							313	1,170	302	107	61	71
31								1,050		107	59	
TOTAL							4,734	29,083	24,914	4,801	2,025	1,975
MEAN							158	938	830	155	65.3	65.8
MAX							455	1,360	1,190	276	97	87
MIN							82	339	302	102	39	50
AC-FT							9,390	57,690	49,420	9,520	4,020	3,920

PLATTE RIVER BASIN

137

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 (61 m) south of Colorado-Wyoming State line, and 17 mi (27 km) southwest of Tie Siding, Wyo.

DRAINAGE AREA.--29.2 mi² (75.6 km²).

PERIOD OF RECORD.--October 1968 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Altitude of gage is 7,620 ft (2,323 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) May 9, gage height, 3.88 ft (1.183 m); maximum gage height, 3.98 ft (1.213 m) Apr. 6 (backwater from ice); minimum daily discharge during period of operation, 1.4 ft³/s (0.040 m³/s) Aug. 30 to Sept. 2, 8-11.

Period of record: Maximum discharge, 250 ft³/s (7.08 m³/s) June 15, 1970, gage height, 4.41 ft (1.344 m); minimum daily during period of operation, 0.13 ft³/s (0.004 m³/s) July 26-28, 1972.

REMARKS.--Records fair. Natural flow affected by diversion above station to Cache la Poudre River basin through Wilson Supply ditch (see page 155). Water imported above station from Deadman Creek in Laramie River basin is rediverted through Wilson Supply ditch but is wasted down Sand Creek at times. Diversions for irrigation of about 170 acres (69 hm²) above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.0	47	31	15	6.9	1.4
2							5.0	54	31	13	5.6	1.4
3							5.6	52	31	11	5.0	1.6
4							5.6	54	35	10	4.5	1.9
5							5.3	63	38	9.7	4.2	1.8
6							4.2	74	45	8.8	4.2	1.6
7							5.0	83	41	8.8	4.0	1.5
8							5.3	86	41	8.8	3.6	1.4
9							5.6	96	52	8.0	3.0	1.4
10							6.5	92	59	7.6	3.4	1.4
11							6.9	79	52	7.6	3.6	1.4
12							6.2	78	41	6.9	3.2	2.0
13							5.9	79	34	6.5	3.0	2.7
14							6.2	65	35	5.9	2.9	3.2
15							6.2	46	44	5.6	2.6	3.2
16							6.2	41	47	5.9	2.4	2.9
17							7.2	42	56	7.6	2.0	2.6
18							11	44	46	9.7	1.9	2.3
19							15	45	45	14	1.8	2.2
20							15	44	45	10	1.7	1.9
21							15	40	40	8.8	1.7	2.0
22							14	37	41	13	1.7	2.0
23							18	34	39	11	1.7	2.0
24							22	33	37	8.8	1.7	2.0
25							35	31	30	7.2	1.6	2.0
26							50	33	27	6.2	1.6	2.0
27							54	35	21	5.0	1.5	1.9
28							48	35	20	5.0	1.5	2.0
29					-----		47	37	17	6.5	1.5	2.0
30					-----		42	37	15	6.9	1.4	2.0
31		-----			-----		-----	34	-----	8.8	1.4	-----
TOTAL							483.9	1,650	1,136	267.6	86.8	59.7
MEAN							16.1	53.2	37.9	8.63	2.80	1.99
MAX							54	96	59	15	6.9	3.2
MIN							4.2	31	15	5.0	1.4	1.4
AC-FT							960	3,270	2,250	531	172	118

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 (8 m) downstream from bridge at May Ranch, 1.5 mi (2.4 km) west of Filmore, and 3.5 mi (5.6 km) downstream from North Fork.

DRAINAGE AREA.--156 mi² (404 km²).

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 (2,316 m), from topographic map. July 5, 1902, to Aug. 15, 1903, nonrecording gage at site 5 ft (1.5 m) downstream at different datum. May 14, 1911, to Apr. 11, 1914, nonrecording gage at site 5 ft (1.5 m) downstream at datum 0.21 ft (0.064 m) lower. May 1, 1933, to Sept. 15, 1938, nonrecording gage, and Sept. 16, 1938, to Nov. 5, 1969, water-stage recorder at site 5 ft (1.5 m) downstream at present datum.

AVERAGE DISCHARGE.--55 years (1902-3, 1911-26, 1932-71), 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 894 ft³/s (25.3 m³/s) June 6, gage height, 3.32 ft (1.012 m); minimum daily during period of operation, 17 ft³/s (0.48 m³/s) Sept. 8-10.

Period of record: Maximum discharge, 3,450 ft³/s (97.7 m³/s) June 10, 1965, gage height, 5.33 ft (1.625 m); minimum daily determined, 1.0 ft³/s (0.028 m³/s) Sept. 17-20, 1913.

REMARKS.--Records good. Ten small reservoirs above station, combined capacity, about 160 acre-ft (0.20 hm³), for irrigation, stock water, recreation, and domestic use. Diversions above station for irrigation of about 11,020 acres (44.6 km²), of which about 200 acres (8.1 hm²) lies below station.

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

REVISIONS (WATER YEARS).--WSP 1310: 1903, 1914, 1922-26. WSP 1440: 1902. WSP 1730: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							40	69	605	286	72	20
2							36	79	595	259	69	23
3							32	80	610	238	66	26
4							30	87	600	217	62	26
5							35	87	680	211	60	22
6							42	107	786	202	57	20
7							37	132	595	193	55	19
8							35	181	585	193	54	17
9							38	271	555	181	53	17
10							39	310	475	172	60	17
11							35	265	445	162	53	18
12							33	241	440	150	47	32
13							33	265	485	148	50	36
14							33	238	580	138	45	36
15							35	217	655	142	41	32
16							39	220	735	205	38	29
17							42	256	710	214	36	27
18							45	283	655	211	35	26
19							50	336	650	214	34	26
20							44	384	565	158	34	26
21							43	339	565	175	31	26
22							42	310	510	181	31	26
23							45	316	485	142	28	25
24							48	343	435	132	26	24
25							61	400	420	125	26	24
26							79	455	384	103	25	22
27							80	590	360	89	24	22
28							65	705	332	114	24	25
29						-----	62	745	316	119	24	23
30						-----	60	730	301	91	23	22
31		-----				-----	-----	655	-----	80	22	-----
TOTAL							1,338	9,696	16,114	5,245	1,305	734
MEAN							44.6	313	537	169	42.1	24.5
MAX							80	745	786	286	72	36
MIN							30	69	301	80	22	17
AC-FT							2,650	19,230	31,966	10,400	2,590	1,460

PLATTE RIVER BASIN

139

06661585 LARAMIE RIVER NEAR BOSLER, WYO.

LOCATION.--Lat 41°33'17", long 107°40'58", in NW¼NW¼NE¼ sec.10, T.18 N., R.74 W., Albany County, on left bank 50 ft (15 m) upstream from bridge on U.S. Highways 30 and 287, 0.2 mi (0.3 km) northwest of Bosler Junction, 1.7 mi (2.7 km) south of Bosler, and 2.0 mi (3.2 km) downstream from Soil Bank Boughton Canal diversion dam.

DRAINAGE AREA.--1,790 mi² (4,636 km²), of which 283 mi² (733 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,030 ft (2,140 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,310 ft³/s (37.1 m³/s) June 10, gage height, 6.26 ft (1.908 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 10, 11.

Period of record: Maximum discharge, 1,630 ft³/s (46.2 m³/s) June 19, 1973, gage height, 6.72 ft (2.048 m); maximum gage height, 8.40 ft (2.560 m) Apr. 22, 1973, (backwater from ice jam); minimum daily discharge, 18 ft³/s (0.51 m³/s) Sept. 10, 11, 1974.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by transtasin diversions, storage reservoirs, diversion above station for irrigation of about 54,700 acres (221 km²), of which about 2,300 acres (9.31 km²) lies below station, and return flows from irrigated areas.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	84	140	56	66	100	233	221	717	190	181	20
2	81	88	130	52	64	100	230	203	769	167	161	21
3	81	61	120	48	64	90	156	206	713	141	156	21
4	83	61	121	46	68	90	239	233	623	124	145	20
5	86	56	122	44	68	100	213	265	539	129	141	20
6	83	68	120	47	65	120	210	267	542	129	134	21
7	76	74	118	49	65	165	221	259	658	150	122	20
8	71	96	119	49	65	180	241	273	841	176	117	20
9	69	210	110	49	67	185	239	299	1,200	186	119	19
10	66	221	112	49	70	189	237	343	1,280	183	134	18
11	66	203	105	50	70	195	228	424	1,280	188	127	18
12	66	195	100	51	70	199	137	484	1,220	174	110	22
13	62	177	98	52	70	206	237	518	1,030	161	102	24
14	62	168	96	52	71	210	222	525	845	156	91	33
15	62	140	94	53	71	219	213	507	693	134	81	38
16	59	125	97	54	72	225	213	487	644	195	69	41
17	58	125	91	54	72	235	208	373	661	206	59	42
18	58	130	85	55	70	247	201	313	777	206	52	41
19	62	125	86	56	70	226	197	336	881	212	44	42
20	66	110	82	56	68	177	201	397	941	241	40	42
21	66	98	85	58	68	185	212	460	945	251	37	44
22	64	94	90	56	70	150	217	532	897	247	35	44
23	64	98	85	58	68	140	212	570	813	239	31	43
24	58	96	80	60	70	150	204	546	725	237	29	44
25	58	96	80	60	75	150	181	484	540	253	27	44
26	59	98	85	60	75	180	152	460	525	237	26	43
27	79	98	85	58	80	190	145	457	418	204	24	42
28	83	100	80	58	85	224	176	466	334	195	23	37
29	81	120	75	60	-----	217	210	514	271	185	22	34
30	78	130	70	64	-----	230	221	577	226	206	21	34
31	76	-----	65	64	-----	222	-----	640	-----	199	20	-----
TOTAL	2,164	3,545	3,026	1,680	1,957	5,496	6,266	12,639	22,648	5,901	2,480	952
MEAN	69.8	118	97.6	54.2	69.9	177	209	408	755	190	80.0	31.7
MAX	86	221	140	66	85	247	241	640	1,280	253	181	44
MIN	58	56	65	44	64	90	145	203	226	124	20	18
AC-FT	4,290	7,030	6,000	3,330	3,880	10,900	12,430	25,070	44,920	11,700	4,920	1,890
CAL YR 1973	TOTAL 97,742		MEAN 268	MAX 1,620	MIN 30	AC-FT 193,900						
WTR YR 1974	TOTAL 68,754		MEAN 188	MAX 1,280	MIN 18	AC-FT 136,400						

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 (47 m) downstream from bridge on county road, 1.0 mi (1.6 km) upstream from Wheatland Reservoir No. 2, and 9.0 mi (14.5 km) northeast of Lookout.

DRAINAGE AREA.--2,174 mi² (5,631 km²), of which 603 mi² (1,562 km²) is probably noncontributing. Drainage area at mouth, 4,565 mi² (11,823 km²).

PERIOD OF RECORD.--May 1912 to December 1917, January 1921 to December 1927, April 1932 to current year (no winter records since 1972). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 6,962.68 ft (2,122.225 m) above mean sea level. Prior to Apr. 22, 1915, nonrecording gage and Apr. 22, 1915, to Aug. 31, 1917, water-stage recorder, at bridge 155 ft (47 m) upstream at same datum. Oct. 14, 1931, to Sept. 17, 1938, at site 125 ft (38 m) upstream at same datum.

AVERAGE DISCHARGE.--51 years (1912-17, 1921-27, 1932-72), 131 ft³/s (3.710 m³/s), 94,910 acre-ft/yr (117 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft³/s (39.1 m³/s) June 12, gage height, 4.51 ft (1.375 m); minimum daily during period of operation, 17 ft³/s (0.48 m³/s) Sept. 10, 11.

Period of record: Maximum discharge, 3,340 ft³/s (94.6 m³/s) June 17, 1957, gage height, 6.41 ft (1.954 m); maximum gage height, about 8.0 ft (2.4 m), occurred in 1973 (backwater from ice); no flow at times in 1934-35, 1939-40, 1954-55.

REMARKS.--Records fair. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 108,000 acres (437 km²) above station, and return flow from irrigated areas.

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

REVISIONS (WATER YEARS).--WSP 1310: 1913-17. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							180	238	631	299	207	25
2							170	228	690	254	192	22
3							166	220	680	218	170	20
4							200	228	617	187	170	20
5							170	259	541	172	154	19
6							190	272	509	175	147	18
7							205	270	550	182	145	19
8							209	267	685	205	139	18
9							215	283	898	228	136	18
10							227	302	1,200	220	139	17
11							230	329	1,360	215	141	17
12							233	386	1,370	215	132	22
13							230	422	1,240	202	124	22
14							238	441	1,030	192	117	24
15							230	465	862	180	111	37
16							225	489	740	177	103	43
17							220	441	700	246	99	48
18							220	359	745	233	91	51
19							215	354	844	225	84	53
20							215	359	934	254	77	54
21							231	422	982	277	75	56
22							233	477	976	280	71	61
23							233	527	952	275	66	63
24							228	532	880	272	63	63
25							223	501	800	283	59	63
26							194	461	715	285	56	61
27							170	449	604	282	54	82
28							175	453	509	241	53	105
29							205	477	418	223	46	103
30							228	514	359	212	35	101
31								572		225	28	
TOTAL							6,308	11,997	24,021	7,114	3,284	1,325
MEAN							210	387	801	229	106	44.2
MAX							238	572	1,370	299	207	105
MIN							166	220	359	172	28	17
AC-FT							12,510	23,800	47,650	14,110	6,510	2,630

PLATTE RIVER BASIN

141

06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WYO.

LOCATION.--Lat 41°50'39", long 105°13'15", in NE¼SW¼SE¼ sec.27, T.22 N., R.70 W., Platte County, on right bank just upstream from bridge on U.S. Highway 34, 900 ft (274 m) upstream from Mule Creek, 2.9 mi (4.7 km) upstream from Bluegrass Creek, and 20 mi (32 km) southwest of Wheatland.

DRAINAGE AREA.--194 mi² (502 km²).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 5,340 ft (1,628 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 75 ft³/s (2.12 m³/s) Apr. 27, gage height, 2.82 ft (0.860 m); minimum daily, 4.9 ft³/s (0.14 m³/s) Aug. 28-30, Sept. 5, 6.

REMARKS.--Records good. Seven small reservoirs above station, combined capacity, about 400 acre-ft (0.493 hm³) for irrigation. Diversions above station for irrigation of about 2,020 acres (8.17 km²), of which about 80 acres (32.4 hm²) lies below station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							50	55	16	15	8.8	5.1
2							49	54	14	15	8.8	5.3
3							50	52	14	14	8.3	5.3
4							45	47	13	14	8.3	5.1
5							46	40	12	14	8.3	4.9
6							47	37	13	13	8.0	4.9
7							48	34	14	12	8.0	5.1
8							46	32	23	12	8.3	5.1
9							44	30	32	14	8.0	5.1
10							44	28	33	16	8.5	5.1
11							44	28	30	18	8.3	5.8
12							44	26	27	16	8.0	7.1
13							44	25	27	15	7.8	7.1
14							44	25	24	13	7.3	7.1
15							44	25	23	12	7.3	6.6
16							44	23	22	14	7.1	6.4
17							46	24	22	15	6.6	6.4
18							52	25	21	15	6.4	6.4
19							56	24	20	17	6.0	6.4
20							58	24	20	16	5.8	6.4
21							60	24	19	16	5.6	6.4
22							56	23	19	16	5.6	6.4
23							58	21	10	14	5.6	6.2
24							62	19	20	13	5.6	6.2
25							64	18	19	12	5.3	6.2
26							70	18	18	12	5.3	6.0
27							70	19	17	11	5.1	6.0
28							62	18	16	10	4.9	6.2
29							59	17	15	10	4.9	6.2
30							56	17	16	9.7	4.9	6.2
31								18		10	5.1	
TOTAL							1,563	870	598	423.7	211.8	178.7
MEAN							52.1	28.1	19.9	13.7	6.83	5.96
MAX							70	55	33	18	8.8	7.1
MIN							44	17	12	9.7	4.9	4.9
AC-FT							3,100	1,730	1,190	840	420	354

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 (46 m) upstream from State Highway 34, 0.2 mi (0.3 km) upstream from Sybille Creek, and 18.2 mi (29.3 km) southwest of Wheatland.

DRAINAGE AREA.--139 mi² (360 km²).

PERIOD OF RECORD.--August 1958 to September 1963, October 1968 to current year (no winter records since 1972).

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

EXTREMES.--Current year: Maximum discharge, 510 ft³/s (14.4 m³/s) July 10, gage height, 3.22 ft (0.981 m); minimum daily during period of operation, 14 ft³/s (0.40 m³/s) Sept. 17, 18.

Period of record: Maximum discharge, 2,590 ft³/s (73.3 m³/s) May 9, 1973, gage height, 5.92 ft (1.804 m), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily, 0.35 ft³/s (0.010 m³/s) Jan. 8, 1970.

Flood of June 8, 1968, reached a discharge of about 3,400 ft³/s (96.3 m³/s), from comparison of flow at stations on Sybille Creek above and below Bluegrass Creek.

REMARKS.--Records fair. Most of flow during irrigation season is water released from Wheatland Reservoir No. 2, capacity, 98,930 acre-ft (122 hm³), corrected, and Wheatland Reservoir No. 3, capacity, 90,870 acre-ft (112 hm³), on the Laramie River and diverted through a tunnel 15 mi (24 km) upstream. Diversions for irrigation of about 210 acres (85 hm²) above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							36	21	387	441	450	410
2							29	22	392	441	450	400
3							25	22	392	441	450	370
4							22	21	396	450	441	352
5							19	21	460	450	436	348
6							18	20	465	460	410	336
7							18	60	436	490	410	272
8							18	190	414	485	405	253
9							18	199	182	490	405	253
10							19	235	73	495	396	235
11							20	244	46	490	360	223
12							19	279	35	490	352	208
13							18	285	52	490	387	124
14							18	279	113	490	418	52
15							18	296	129	485	450	20
16							18	340	129	470	450	16
17							19	348	129	480	450	14
18							22	352	155	475	446	14
19							24	324	169	460	460	76
20							22	320	169	446	450	110
21							24	313	172	455	446	110
22							22	313	217	455	446	110
23							22	310	229	455	441	110
24							23	316	306	455	423	113
25							24	352	306	460	400	121
26							27	356	306	470	400	121
27							29	360	313	470	415	124
28							24	369	382	470	428	132
29							22	369	392	470	428	118
30							22	356	446	475	424	104
31							22	356	446	475	415	104
TOTAL							659	7,648	7,792	14,529	13,142	5,249
MEAN							22.0	247	260	469	424	175
MAX							36	369	465	495	460	410
MIN							18	20	35	441	352	14
AC-FT							1,310	15,170	15,460	28,820	26,070	10,410

06667060 LARAMIE RIVER ABOVE NORTH LARAMIE RIVER, NEAR UVA, WYO.

LOCATION.--Lat 42°07'12", long 104°56'09", in SW¼SW¼SE¼ sec.19, T.25 N., R.67 W., Platte County, on right bank 75 ft (23 m) downstream from bridge on U.S. Highway 87, 0.8 mi (1.3 km) upstream from North Laramie River, 1.1 mi (1.8 km) southwest of Uva, and 4.6 mi (7.4 km) north of Wheatland.

DRAINAGE AREA.--3,131 mi² (8,109 km²), of which 611 mi² (1,582 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 476 ft³/s (13.5 m³/s) May 18, gage height, 4.78 ft (1.457 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Aug. 19.

REMARKS.--Records poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, ground-water withdrawals, diversions for irrigation of about 157,000 acres (635 km²) above station, and return flow from irrigated areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	90	88	66	85	56	158	112	17	26	4.1	6.7
2	72	102	92	65	88	56	161	99	22	27	3.8	7.9
3	73	109	92	64	89	55	167	83	25	25	4.9	9.3
4	87	100	88	64	88	54	139	67	22	18	4.9	10
5	99	95	71	64	87	55	119	60	15	17	7.1	11
6	97	124	68	65	86	61	127	48	28	18	7.5	9.6
7	94	146	99	66	85	64	123	37	34	20	6.4	9.2
8	94	137	120	68	84	66	122	26	86	22	6.0	9.6
9	68	145	108	69	84	67	123	14	209	31	5.8	10
10	62	158	104	70	85	68	122	10	274	34	5.6	9.2
11	66	149	107	72	88	71	117	10	94	43	5.8	9.6
12	69	131	105	74	92	76	116	9.2	51	49	6.0	23
13	62	119	75	77	96	82	118	8.4	48	42	6.0	31
14	82	110	66	78	91	88	116	13	50	40	5.4	31
15	82	111	63	80	93	92	113	18	46	34	4.8	31
16	68	104	63	80	89	92	111	14	41	28	5.0	28
17	62	99	65	80	92	90	110	48	37	30	4.6	28
18	61	105	66	80	92	88	111	272	24	25	4.0	26
19	61	107	66	79	85	90	113	85	21	26	3.6	26
20	61	111	67	78	88	96	120	70	22	26	6.6	28
21	59	90	69	76	78	102	122	56	16	20	8.4	36
22	59	83	72	74	60	104	125	45	12	15	9.2	33
23	58	90	74	73	56	104	137	42	12	16	7.6	31
24	58	83	75	74	45	105	126	38	22	23	6.4	28
25	58	78	76	76	44	110	129	33	24	18	6.0	26
26	56	74	75	78	45	120	138	31	19	13	5.8	24
27	68	78	74	78	52	130	137	37	14	13	6.2	23
28	75	67	73	77	56	133	142	28	13	7.9	6.7	24
29	74	93	71	78	-----	139	120	25	16	4.5	7.4	24
30	71	92	70	80	-----	150	117	24	19	7.1	7.4	24
31	76	-----	68	82	-----	154	-----	20	-----	7.1	6.3	-----
TOTAL	2,200	3,180	2,470	2,285	2,203	2,818	3,800	1,482.5	1,335	725.6	185.3	627.0
MEAN	71.0	106	79.7	73.7	78.7	90.9	127	47.8	44.5	23.4	5.98	20.9
MAX	99	158	120	82	96	154	167	272	274	48	9.2	36
MIN	56	67	63	64	44	54	110	8.4	12	4.5	3.6	6.7
AC-FT	4,360	6,310	4,900	4,530	4,370	5,590	7,540	2,940	2,650	1,440	368	1,240

WTR YR 1974 TOTAL 23,312.5 MEAN 63.9 MAX 274 MIN 3.6 AC-FT 46,240

NOTE.--No gage-height record Dec. 19 to Feb. 8, Feb. 25 to Apr. 2, June 9-11, Aug. 7 to Sept. 4.

06667500 NORTH LARAMIE RIVER NEAR WHEATLAND, WYO.

LOCATION.--Lat 42°09'58", long 105°12'23", in NE¼SE¼ sec.2, T.25 N., R.70 W., Platte County, on left bank 0.3 mi (0.5 km) upstream from headgate of North Laramie Land Company canal, 1.2 mi (1.9 km) downstream from Spring Creek, and 15 mi (24 km) northwest of Wheatland.

DRAINAGE AREA.--370 mi² (958 km²). Drainage area at mouth, 530 mi² (1,373 km²).

PERIOD OF RECORD.--October 1914 to September 1923, July 1939 to September 1971, October 1973 to September 1974 (discontinued). Monthly discharge only for some periods, published in WSP 1310. Published as "at upper station near Wheatland" in WSP 469. January 1912 to November 1914 at site 1.2 mi (1.9 km) downstream; records not equivalent owing to diversion.

GAGE.--Water-stage recorder. Altitude of gage is 4,840 ft (1,475 m), from topographic map. Nov. 6, 1914, to Sept. 30, 1923, water-stage recorder at present site at different datum; July 25, 1939, to Aug. 12, 1954, at site 460 ft (140 m) downstream at datum 1.84 ft (0.561 m) lower.

AVERAGE DISCHARGE.--42 years (1914-23, 1939-71, 1973-74), 40.9 ft³/s (1.158 m³/s), 29,630 acre-ft/yr (36.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 226 ft³/s (6.40 m³/s) Apr. 27, gage height, 5.02 ft (1.530 m); maximum gage height, 5.40 ft (1.646 m) Mar. 5 (backwater from ice); minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Sept. 11.

Period of record: Maximum discharge, 9,260 ft³/s (262 m³/s) July 27, 1951, gage height, 12.9 ft (3.93 m), from floodmarks, present site and datum, from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of slope-area measurements at gage heights 8.09 ft (2.466 m) and 12.9 ft (3.93 m); no flow Nov. 29, 1915, at times July to September 1919, Aug. 3 to Oct. 24, 1954, Oct. 1-6, 1956, Aug. 25 to Sept. 8, 1960.

REMARKS.--Records good. Seven small reservoirs above station, total capacity, about 290 acre-ft (0.358 hm³) for irrigation and stock water. Diversions for irrigation of about 4,800 acres (19.4 km²) above station.

REVISIONS (WATER YEARS).--WSP 1310: 1915-22. WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	23	18	16	14	14	68	150	31	15	7.0	3.8
2	25	24	19	16	17	17	67	152	31	14	5.8	4.0
3	24	24	20	16	14	18	56	162	30	13	5.4	4.2
4	24	16	18	9.8	14	24	43	160	25	12	5.4	4.0
5	24	24	15	9.8	12	7.0	40	148	24	12	6.1	3.8
6	24	28	9.4	9.8	14	26	44	141	27	11	6.7	3.8
7	24	29	18	9.8	16	29	56	137	33	11	5.8	3.7
8	24	30	22	9.7	16	27	57	137	40	11	6.1	3.4
9	24	31	16	9.6	18	56	59	134	103	11	6.1	3.2
10	25	33	16	9.7	16	68	61	141	101	11	7.0	3.1
11	26	34	17	9.7	14	66	72	150	66	9.8	6.7	2.5
12	25	33	16	9.9	14	56	66	129	53	9.4	7.3	3.8
13	24	31	14	11	12	90	60	115	49	8.5	7.6	4.0
14	24	30	24	12	12	88	56	101	39	8.2	7.0	4.3
15	24	29	22	13	12	67	54	95	36	7.9	7.0	5.0
16	24	26	14	15	12	64	59	88	34	7.9	6.7	4.9
17	23	24	18	16	12	67	80	84	32	8.2	5.8	4.8
18	22	23	19	14	13	113	108	87	31	8.5	5.5	4.9
19	22	23	9.6	13	16	92	134	85	30	8.5	5.0	5.0
20	22	23	7.0	12	14	83	143	78	27	9.8	4.9	5.0
21	22	16	14	12	18	81	137	64	25	9.8	4.8	4.8
22	21	20	21	11	9.6	77	125	57	23	8.5	4.8	4.3
23	21	21	18	7.9	17	64	125	50	23	9.8	4.6	4.2
24	20	19	15	17	11	58	129	46	27	9.0	4.3	4.2
25	20	17	14	21	13	59	150	43	24	7.9	4.0	4.0
26	20	14	16	16	13	62	180	40	21	7.3	3.4	3.7
27	21	14	12	16	12	64	200	40	18	6.7	3.2	3.8
28	22	14	12	19	13	66	178	40	16	6.4	3.6	3.8
29	22	15	11	19	-----	68	166	41	15	6.4	4.0	4.0
30	22	16	11	19	-----	69	160	41	16	7.0	4.0	4.0
31	22	-----	10	16	-----	69	-----	36	-----	7.0	4.0	-----
TOTAL	713	704	485.4	397.7	400.8	1,809.0	2,933	2,972	1,050	293.5	169.6	122.0
MEAN	23.0	23.5	15.7	12.8	14.3	58.4	97.8	95.9	35.0	9.47	5.47	4.07
MAX	26	34	24	21	19	113	200	162	103	15	7.6	5.0
MIN	20	14	7.0	7.0	9.8	7.0	40	36	15	6.4	3.2	2.5
AC-FT	1,410	1,400	963	789	795	3,590	5,820	5,890	2,080	582	336	242

WTR YR 1974 TOTAL 12,050.0 MEAN 33.0 MAX 200 MIN 2.5 AC-FT 23,900

PEAK DISCHARGE (BASE, 170 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
4-27	0500	5.02	226

PLATTE RIVER BASIN

145

06668200 FISH CREEK NEAR FLETCHER PARK, WYO.

LOCATION.--Lat 42°15'13", long 105°15'09", in NE¼NE¼SW¼ sec.4, T.26 N., R.70 W., Platte County, on left bank 1.9 mi (3.1 km) upstream from Matilda Creek, 5.3 mi (8.5 km) northeast of Fletcher Park, and 19 mi (31 km) northwest of Wheatland.

DRAINAGE AREA.--6.33 mi² (16.4 km²).

PERIOD OF RECORD.--October 1973 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,470 ft (1,667 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 0.88 ft³/s (0.025 m³/s) Apr. 23, gage height, 1.51 ft (0.460 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Sept. 26-30.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.45	.41	.22	.21	.27	.22	.72	.39	.25	.09	.05
2	.76	.50	.42	.25	.21	.25	.24	.70	.40	.25	.09	.05
3	.29	.40	.41	.21	.71	.28	.21	.71	.39	.22	.09	.04
4	.32	.55	.41	.70	.22	.27	.20	.69	.36	.23	.09	.04
5	.32	.50	.39	.21	.24	.22	.20	.63	.36	.19	.09	.04
6	.32	.45	.33	.25	.23	.23	.23	.62	.39	.17	.09	.04
7	.33	.40	.35	.24	.24	.23	.26	.65	.38	.17	.08	.04
8	.36	.45	.29	.23	.23	.24	.24	.66	.53	.17	.08	.04
9	.40	.42	.39	.22	.76	.24	.24	.61	.41	.18	.08	.04
10	.45	.41	.40	.22	.26	.24	.23	.62	.39	.17	.08	.04
11	.46	.41	.40	.23	.26	.26	.23	.58	.38	.16	.07	.04
12	.48	.41	.40	.24	.25	.29	.21	.57	.35	.16	.07	.04
13	.47	.42	.39	.24	.25	.31	.20	.49	.33	.14	.08	.04
14	.43	.43	.35	.26	.25	.29	.25	.47	.31	.14	.07	.04
15	.45	.43	.38	.31	.25	.28	.34	.46	.30	.13	.07	.04
16	.47	.43	.36	.35	.25	.31	.34	.46	.30	.13	.07	.04
17	.47	.42	.39	.40	.24	.24	.31	.47	.28	.13	.07	.04
18	.46	.42	.38	.40	.22	.25	.32	.45	.27	.13	.07	.04
19	.46	.45	.27	.41	.20	.28	.34	.47	.27	.12	.07	.04
20	.47	.41	.26	.40	.20	.24	.57	.46	.26	.12	.06	.04
21	.46	.42	.28	.40	.19	.26	.75	.47	.25	.12	.06	.04
22	.47	.41	.33	.35	.21	.28	.83	.45	.25	.11	.06	.04
23	.48	.42	.39	.35	.19	.28	.87	.40	.26	.11	.07	.04
24	.46	.42	.42	.32	.19	.29	.86	.39	.26	.11	.06	.04
25	.45	.42	.40	.31	.23	.31	.83	.41	.25	.11	.06	.04
26	.45	.41	.40	.30	.23	.28	.71	.41	.24	.11	.06	.03
27	.45	.42	.41	.30	.23	.26	.79	.40	.23	.11	.06	.03
28	.42	.42	.43	.29	.23	.26	.70	.39	.22	.11	.06	.03
29	.41	.41	.43	.29	-----	.26	.66	.42	.22	.11	.06	.03
30	.42	.41	.41	.26	-----	.27	.70	.41	.22	.11	.06	.03
31	.42	-----	.40	.23	-----	.22	-----	.40	-----	.11	.05	-----
TOTAL	12.80	13.12	11.95	8.97	6.38	8.23	13.08	16.04	9.45	4.58	2.22	1.17
MEAN	.41	.44	.38	.29	.23	.27	.44	.52	.32	.15	.072	.039
MAX	.48	.60	.43	.41	.26	.31	.87	.72	.53	.25	.09	.05
MIN	.24	.40	.26	.20	.19	.22	.20	.39	.22	.11	.05	.03
AC-FT	25	26	24	18	13	16	26	32	19	9.1	4.4	2.3

WTR YR 1974 TOTAL 107.97 MEAN .30 MAX .87 MIN .03 AC-FT 214

PLATTE RIVER BASIN

06669100 WHEATLAND CREEK NEAR UVA, WYO.

LOCATION.--Lat 42°07'23", long 104°54'17", in SE¼NW¼SW¼ sec.21, T.25 N., R.67 W., Platte County, on right bank 0.5 mi (0.8 km) upstream from mouth, 0.9 mi (1.4 km) southeast of Uva, and 5.4 mi (8.7 km) northeast of Wheatland.

DRAINAGE AREA.--56.7 mi² (147 km²).

PERIOD OF RECORD.--October 1973 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,460 ft (1,359 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 92 ft³/s (2.61 m³/s) about June 9, gage height, 3.42 ft (1.042 m); minimum daily, 0.09 ft³/s (0.003 m³/s) May 29-31.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Diversions for irrigation of about 30 acres (12 hm²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	14	6.0	15	13	10	9.7	.16	1.3	4.1	6.8
2	25	20	14	6.0	12	12	11	10	.20	1.5	4.7	11
3	23	19	14	6.3	12	10	16	12	.20	1.6	4.1	9.7
4	24	18	14	6.5	12	8.6	16	12	.25	1.8	3.0	7.2
5	24	18	12	6.8	12	4.4	16	11	.25	1.7	3.4	4.7
6	23	18	13	7.0	5.2	12	16	10	.25	1.6	4.7	4.4
7	22	20	15	7.0	7.2	9.7	14	7.9	.30	1.6	6.5	4.4
8	22	21	16	6.9	10	9.7	13	4.7	21	1.6	6.5	3.8
9	23	21	13	6.6	6.5	9.0	8.8	4.4	42	1.3	8.6	4.4
10	22	21	14	6.8	7.9	9.0	1.0	4.1	32	5.2	13	5.1
11	23	19	14	6.5	12	10	8.6	3.8	18	1.9	13	6.8
12	22	15	14	7.2	12	10	16	3.8	13	1.6	8.6	16
13	21	18	13	7.6	13	9.3	14	3.2	8.4	1.9	10	14
14	19	18	13	7.5	13	9.0	12	2.9	8.2	2.0	8.6	12
15	19	16	12	16	14	9.0	12	2.9	8.2	2.2	8.6	9.0
16	19	16	13	23	14	9.0	11	2.9	7.6	5.7	9.7	6.8
17	19	16	14	19	14	9.3	11	8.0	6.8	8.6	9.3	6.1
18	20	16	13	25	13	9.3	11	12	5.4	5.8	9.0	5.4
19	20	16	5.8	22	12	10	11	3.6	4.3	5.8	11	9.0
20	20	15	9.2	14	12	8.6	11	4.1	3.7	4.7	12	15
21	21	16	6.3	15	8.6	12	13	3.4	2.9	2.6	7.9	12
22	20	15	11	11	12	12	15	3.0	2.5	2.9	10	7.9
23	20	15	13	12	11	12	38	2.8	2.5	2.9	8.3	7.2
24	18	14	12	14	9.7	12	20	2.8	2.7	2.6	8.6	5.8
25	17	15	12	16	12	13	12	2.4	2.3	2.9	8.3	6.1
26	17	14	11	16	14	15	12	2.0	1.9	2.9	10	6.1
27	18	14	5.0	14	14	12	12	1.9	1.6	3.2	7.9	6.8
28	19	14	9.0	12	12	12	11	.94	1.3	4.7	6.8	8.6
29	20	15	7.5	13	-----	11	11	.09	1.1	6.5	7.5	8.3
30	18	14	7.2	15	-----	10	10	.09	1.2	6.8	6.5	8.3
31	18	-----	6.5	14	-----	11	-----	.09	-----	4.7	6.8	-----
TOTAL	641	511	386.6	371.6	323.1	322.9	393.4	152.51	200.21	102.1	247.0	238.7
MEAN	20.7	17.0	11.8	12.0	11.5	10.4	13.1	4.92	6.67	3.29	7.97	7.96
MAX	25	21	16	25	15	15	38	12	42	8.6	13	16
MIN	17	14	5.8	6.0	5.2	4.4	1.0	.09	.16	1.3	3.0	3.8
AC-FT	1,270	1,010	727	727	641	640	780	303	397	203	490	473

WTR YR 1974 TOTAL 3,270.12 MEAN 10.8 MAX 42 MIN .09 AC-FT 7,680

NOTE.--No gage-height record June 6 to July 1.

PLATTE RIVER BASIN

147

06669850 CHUGWATER CREEK NEAR UVA, WYO.

LOCATION.--Lat 42°07'12", long 104°51'05", in SE¼SE¼ sec.23, T.25 N., R.67 W., Platte County, on left bank 0.5 mi (0.8 km) upstream from mouth and 3.6 mi (5.8 km) east of Uva.

DRAINAGE AREA.--654 mi² (1,694 km²).

PERIOD OF RECORD.--October 1965 to September 1968, October 1973 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,430 ft (1,350 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 145 ft³/s (4.11 m³/s) Apr. 29, gage height, 3.23 ft (0.985 m); maximum gage height, 5.25 ft (1.600 m) Jan. 12 (backwater from ice); minimum daily discharge, 7.2 ft³/s (0.204 m³/s) July 23.

Period of record: Maximum discharge, 249 ft³/s (7.05 m³/s) June 21, 1967, gage height, 4.67 ft (1.423 m); maximum gage height, 5.25 ft (1.600 m) Jan. 12, 1974 (backwater from ice); minimum daily discharge, 5.8 ft³/s (0.164 m³/s) July 16-18, 1966.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 10,800 acres (43.7 km²), of which about 50 acres (20 hm²) lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	82	88	50	95	89	94	109	17	9.6	12	10
2	94	84	88	46	95	89	94	97	18	10	12	16
3	92	87	88	44	84	92	101	88	18	12	10	14
4	91	84	88	41	80	92	102	83	16	11	12	16
5	91	81	79	40	90	83	101	73	10	10	12	15
6	90	91	69	39	75	86	98	60	12	10	12	13
7	88	95	81	39	74	89	98	51	11	14	11	12
8	87	98	82	39	70	91	100	50	27	15	11	12
9	87	98	87	39	66	91	102	50	45	14	12	13
10	86	100	84	40	63	91	98	46	40	21	13	14
11	87	100	84	43	65	92	97	43	31	20	13	15
12	84	100	84	46	69	95	102	39	31	20	13	22
13	83	97	84	51	78	95	106	42	30	20	15	22
14	82	96	83	58	77	92	107	43	29	20	13	22
15	81	94	80	63	86	90	104	29	27	17	13	22
16	80	94	77	70	86	89	106	22	25	14	13	21
17	79	92	77	88	88	91	103	21	21	11	13	21
18	79	91	84	106	90	91	100	24	19	9.2	13	22
19	79	91	75	112	89	91	97	25	18	10	15	26
20	81	90	64	114	91	95	98	24	17	8.8	17	24
21	80	88	74	114	83	100	106	20	16	9.2	12	23
22	80	88	72	92	78	97	123	19	15	8.0	11	23
23	78	87	78	75	84	94	135	16	16	7.2	12	26
24	75	82	79	84	69	91	135	16	16	10	10	26
25	76	84	68	94	63	88	131	17	16	10	12	22
26	78	84	69	96	84	91	133	20	16	11	12	24
27	80	87	57	94	88	95	134	20	15	10	10	23
28	81	76	65	79	90	92	133	20	14	11	10	25
29	81	87	57	80	-----	91	140	21	12	12	12	27
30	79	86	61	91	-----	90	128	21	8.4	20	12	31
31	80	-----	54	94	-----	92	-----	20	-----	16	10	-----
TOTAL	2,583	2,694	2,360	2,161	2,250	2,835	3,306	1,229	606.4	401.0	378	602
MEAN	83.3	89.8	76.1	69.7	80.4	91.5	110	39.6	20.2	12.9	12.2	20.1
MAX	94	100	88	114	95	100	140	109	45	21	17	31
MIN	75	76	54	39	63	83	94	16	8.4	7.2	10	10
AC-FT	5,120	5,340	4,680	4,290	4,460	5,620	6,560	2,440	1,200	795	750	1,190
WTR YR 1974	TOTAL 21,405.4		MEAN 58.6		MAX 140		MIN 7.2		AC-FT 42,460			

06670500 LARAMIE RIVER NEAR FORT LARAMIE, WYO.

LOCATION.--Lat 42°11'57", long 104°35'28", in SE¼SE¼NE¼ sec.25, T.26 N., R.65 W., Goshen County, on right bank 5 ft (1.5 m) downstream from Fort Laramie Canal Siphon, 10 ft (3 m) east of county road, 1.1 mi (1.8 km) downstream from Gering-Fort Laramie Canal diversion, 1.7 mi (2.7 km) southwest of Old Fort Laramie, 3.0 mi (4.8 km) upstream from Deer Creek, 4.0 mi (6.4 km) southwest of Fort Laramie and 5.1 mi (8.2 km) upstream from mouth.

DRAINAGE AREA.--4,495 mi² (11,642 km²), of which 631 mi² (1,634 km²) is probably noncontributing. Drainage area at mouth, 4,565 mi² (11,823 km²).

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." Prior to May 10, 1973, at site 4.4 mi (7.1 km) downstream at different datum.

GAGE.--Water-stage recorder. Datum of gage is 4,257.04 ft (1,297.546 m) above mean sea level (Bureau of Reclamation bench mark). Apr. 4, 1915, to Mar. 31, 1925, nonrecording gage at site 4.4 mi (7.1 km) downstream at different datum. Apr. 1, 1925, to Sept. 30, 1932, nonrecording gage and Oct. 1, 1932, to Aug. 20, 1935, water-stage recorder, at present site at different datum. Aug. 21, 1935, to Nov. 2, 1970, water-stage recorder 4.0 mi (6.4 km) downstream at different datum. Nov. 3, 1970, to May 9, 1973, water-stage recorder 4.4 mi (7.1 km) downstream at different datum.

AVERAGE DISCHARGE.--18 years (1956-74), 148 ft³/s (4.191 m³/s), 106,900 acre-ft/yr (132 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 412 ft³/s (11.7 m³/s) Apr. 30; maximum gage height, 5.77 ft (1.759 m) Jan. 17 (backwater from ice); minimum daily discharge, 7.6 ft³/s (0.22 m³/s) Aug. 19.

Period of record: Maximum discharge, 6,260 ft³/s (177 m³/s) May 10, 1973, gage height, 9.40 ft (2.865 m); 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. Diversion, at times, to Gering-Fort Laramie Canal, 1.1 mi (1.8 km) upstream. Natural flow of stream affected by transbasin diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation of about 176,000 acres (710 km²) 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.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	229	242	162	294	233	329	365	46	29	22	10
2	242	239	242	158	297	235	337	337	41	31	19	11
3	239	257	244	152	271	235	329	323	40	39	19	12
4	233	259	242	148	269	242	323	310	31	44	19	13
5	246	245	233	144	260	237	332	294	25	44	20	13
6	250	267	210	142	222	211	291	271	37	38	18	12
7	246	302	212	140	206	257	291	237	42	38	13	11
8	242	310	242	138	202	264	302	209	57	42	12	11
9	239	302	257	139	202	244	310	191	187	44	12	11
10	223	315	240	148	206	244	297	178	281	47	11	11
11	221	323	248	158	218	281	281	174	225	116	12	12
12	225	315	248	168	235	297	299	178	144	71	12	14
13	225	304	244	180	227	291	307	165	143	72	12	24
14	219	291	223	194	233	304	291	160	126	65	10	38
15	227	284	213	208	227	318	279	157	110	62	10	39
16	225	281	204	226	237	291	274	141	97	48	11	41
17	217	269	200	242	233	274	267	126	92	32	10	42
18	215	262	204	252	239	264	267	184	85	33	8.4	41
19	213	262	202	254	242	320	279	244	69	30	7.6	40
20	215	262	200	250	233	342	294	164	60	26	11	44
21	215	262	205	236	237	291	312	141	56	32	14	48
22	211	242	212	226	212	259	329	115	53	31	15	53
23	209	239	218	222	198	253	345	99	47	27	12	51
24	207	239	220	228	192	237	354	82	44	24	10	52
25	204	235	218	232	190	235	337	74	41	22	10	50
26	206	233	208	238	192	267	345	66	44	23	9.2	50
27	206	229	200	238	235	279	371	61	47	22	10	48
28	219	223	190	234	237	276	403	56	42	20	11	48
29	223	221	182	240	-----	281	394	52	37	19	12	55
30	221	242	174	259	-----	318	391	49	31	19	12	56
31	217	-----	168	279	-----	320	-----	47	-----	19	10	-----
TOTAL	6,946	7,943	6,745	6,235	6,446	8,400	9,530	5,250	2,380	1,209	394.2	961
MEAN	224	265	218	201	230	271	318	169	79.3	39.0	12.7	32.0
MAX	250	323	257	279	297	342	403	365	281	116	22	56
MIN	204	221	168	138	190	211	267	47	25	19	7.6	10
AC-FT	13,780	15,750	13,380	12,370	12,790	16,660	18,930	10,410	4,720	2,400	782	1,910
CAL YR 1973	TOTAL	172,055.0	MEAN	471	MAX	5,810	MIN	56	AC-FT	341,300		
WTR YR 1974	TOTAL	62,439.2	MEAN	171	MAX	403	MIN	7.6	AC-FT	123,800		

PLATTE RIVER BASIN

149

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 mi (2.9 km) upstream from mouth of Rawhide Creek, and 2.1 mi (3.4 km) south of Lingle.

DRAINAGE AREA.--25,095 mi² (64,996 km²), of which 5,809 mi² (15,045 km²), including 3,959 mi² (10,254 km²) 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 (1,259.254 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 4,920 ft³/s (139 m³/s) Mar. 15; minimum daily, 190 ft³/s (5.38 m³/s) Jan. 3.

Period of record: Maximum discharge, 9,480 ft³/s (268 m³/s) May 16, 1971; minimum daily, 106 ft³/s (3.00 m³/s) Jan. 6, 1970.

REMARKS.--Records fair. 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 mi (1.0 km) upstream. Diversion from north channel to Torrington ditch 1.4 mi (2.3 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,070	433	337	212	289	1,230	4,630	3,230	1,420	3,380	1,450	899
2	867	433	337	198	289	1,990	4,650	3,030	1,320	3,350	1,420	839
3	770	445	337	190	283	2,600	4,650	2,840	1,290	3,180	1,440	711
4	710	453	334	192	271	3,160	4,600	2,630	1,270	3,110	1,440	653
5	659	445	330	196	268	3,670	4,600	2,520	1,240	2,970	1,440	619
6	623	445	306	200	280	4,120	4,580	2,380	1,230	2,860	1,440	609
7	598	469	309	204	259	4,480	4,550	2,220	1,210	2,650	1,420	514
8	583	501	312	208	257	4,630	4,540	2,040	1,370	2,450	1,440	470
9	603	501	326	212	257	4,650	4,550	1,820	2,060	2,250	1,420	442
10	685	501	330	216	254	4,720	4,190	1,360	2,390	2,090	1,410	414
11	859	505	330	220	262	4,800	3,040	1,350	2,540	2,000	1,340	366
12	1,210	501	330	228	262	4,800	4,240	1,250	3,000	1,850	1,320	390
13	738	489	330	240	262	4,800	4,300	1,140	3,040	1,810	1,300	386
14	622	477	320	251	262	4,780	4,280	1,020	3,020	1,750	1,250	392
15	582	449	312	262	262	4,860	4,300	874	3,010	1,700	1,220	400
16	556	433	302	286	265	4,830	4,340	1,180	3,060	1,570	1,220	412
17	521	421	306	312	274	4,820	4,320	1,160	3,060	1,540	1,220	416
18	501	401	320	337	265	4,800	4,270	1,080	3,010	1,870	1,180	399
19	489	394	323	351	265	4,670	4,340	1,080	3,010	1,550	1,160	383
20	469	391	295	351	268	4,660	4,340	1,060	3,040	1,550	1,100	377
21	465	387	295	351	268	4,600	4,350	1,060	3,050	1,590	1,090	383
22	461	380	309	334	268	4,540	4,260	1,260	3,220	1,530	1,090	387
23	453	366	320	302	265	4,560	3,930	1,310	3,250	1,570	1,090	380
24	441	362	320	283	259	4,520	3,700	1,340	3,480	1,720	1,090	366
25	437	354	312	289	257	4,520	3,540	1,340	3,500	1,760	1,090	352
26	429	351	298	295	251	4,530	3,580	1,450	3,510	1,710	1,050	345
27	425	340	280	302	344	4,550	3,540	1,460	3,490	1,630	945	338
28	421	340	286	286	761	4,490	3,530	1,450	3,500	1,590	945	519
29	429	326	277	280	-----	4,540	3,530	1,250	3,390	1,350	912	599
30	429	337	255	286	-----	4,610	3,500	1,470	3,450	1,510	925	476
31	429	-----	230	286	-----	4,590	-----	1,460	-----	1,490	967	-----
TOTAL	18,534	12,630	9,608	8,160	8,027	133,110	124,790	50,114	78,430	63,460	37,826	14,234
MEAN	598	421	310	263	287	4,294	4,160	1,617	2,614	2,047	1,220	474
MAX	1,210	505	337	351	761	4,860	4,650	3,230	3,510	3,380	1,450	899
MIN	421	326	230	190	251	1,230	3,040	874	1,210	1,490	912	338
AC-FT	36,760	25,050	19,060	16,190	15,920	264,000	247,500	99,400	155,600	125,900	75,030	28,230

CAL YR 1973 TOTAL 804,032 MEAN 2,203 MAX 8,260 MIN 168 AC-FT 1,595,000
WTR YR 1974 TOTAL 558,923 MEAN 1,531 MAX 4,860 MIN 190 AC-FT 1,109,000

PLATTE RIVER BASIN

06671000 RAWHIDE CREEK NEAR LINGLE, WYO.

LOCATION.--Lat 42°07'32", long 104°19'36", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.25 N., R.62 W., Goshen County, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 26, 1.0 mi (1.6 km) east of Lingle, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--522 mi² (1,352 km²).

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 (1,268 m), from topographic map. See WSP 1918 for history of changes prior to May 16, 1955.

AVERAGE DISCHARGE.--43 years (1928-71), 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 56 ft³/s (1.59 m³/s) Sept. 12, gage height, 3.54 ft (1.079 m); minimum daily during period of operation, 5.8 ft³/s (0.16 m³/s) Apr. 25 to May 2.

Period of record: Maximum discharge, 3,970 ft³/s (112 m³/s) Sept. 7, 1946, gage height, 11.76 ft (3.584 m); no flow July 5-7, 1961, Apr. 12, 29, 1966, Mar. 20-28, 1967, Apr. 13, 1971.

REMARKS.--Records fair. 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 (0.567 hm³), for irrigation. Diversions for irrigation of about 1,600 acres (6.48 km²) above station.

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

REVISIONS (WATER YEARS)--WSP 1440: 1932, 1936(M). WSP 1918: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							15	5.8	27	13	29	24
2							15	5.8	26	13	30	27
3							16	6.4	21	8.2	31	30
4							16	7.1	15	9.3	39	31
5							16	7.1	18	8.6	42	31
6							16	7.5	23	8.9	39	30
7							16	7.5	27	9.6	37	30
8							15	8.9	33	12	37	30
9							15	18	35	11	36	29
10							15	18	30	11	43	26
11							16	16	37	13	41	25
12							16	16	36	13	39	45
13							16	14	29	13	39	43
14							16	13	29	11	35	41
15							16	13	28	12	35	42
16							15	14	27	14	36	38
17							15	16	24	16	38	33
18							15	15	18	15	36	29
19							15	16	18	15	31	27
20							14	16	22	15	29	30
21							14	14	23	16	25	28
22							14	9.3	23	15	25	24
23							9.3	12	26	14	27	22
24							6.1	14	30	19	27	24
25							5.8	18	32	22	23	25
26							5.8	18	29	19	18	27
27							5.8	19	23	26	19	29
28							5.8	22	21	25	18	38
29					-----		5.8	25	14	20	19	39
30					-----		5.8	31	12	24	21	34
31		-----			-----		-----	26	-----	29	21	-----
TOTAL							387.2	449.4	756	470.6	965	931
MEAN							12.9	14.5	25.2	15.2	31.1	31.0
MAX							16	31	37	29	43	45
MIN							5.8	5.8	12	8.2	18	22
AC-FT							766	891	1,500	933	1,910	1,850

PLATTE RIVER BASIN

151

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 (15 m) downstream from bridge on county road, 0.6 mi (1.0 km) upstream from mouth, and 2.0 mi (3.2 km) southeast of Torrington.

DRAINAGE AREA.--356 mi² (922 km²).

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 (1,244 m), from topographic map. Prior to June 12, 1935, nonrecording gage at site 1.0 mi (1.6 km) upstream at different datum. June 12, 1935, to Sept. 30, 1945, water-stage recorder at site 100 ft (30 m) downstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1945, to Nov. 27, 1950, water-stage recorder at site 100 ft (30 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years (1935-71), 21.6 ft³/s (0.612 m³/s), 15,650 acre-ft/yr (19.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 367 ft³/s (10.4 m³/s) June 8, gage height, 4.45 ft (1.356 m); minimum daily during period of operation, 10 ft³/s (0.28 m³/s) May 8.

Period of record: Maximum discharge, 2,420 ft³/s (68.5 m³/s) June 27, 1955, gage height, 10.31 ft (3.142 m) from floodmark; minimum daily, 0.40 ft³/s (0.011 m³/s) Jan. 28, 29, 1949.

REMARKS.--Records good. Flow is mainly return water from irrigation.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							11	11	50	75	55	57
2							12	11	53	70	57	62
3							13	11	54	67	57	62
4							13	11	53	65	58	63
5							14	11	53	60	59	63
6							15	11	58	63	59	63
7							15	11	65	60	57	57
8							15	10	188	57	52	51
9							14	12	238	53	50	50
10							13	25	143	51	57	51
11							14	14	62	67	58	63
12							15	13	41	60	57	93
13							13	19	37	57	55	104
14							12	58	37	55	49	95
15							12	28	37	54	42	89
16							12	33	37	57	45	84
17							12	35	37	54	44	79
18							12	41	36	53	49	72
19							12	41	35	53	52	70
20							13	45	39	32	52	69
21							13	44	40	29	49	68
22							13	40	47	27	51	67
23							12	41	52	28	57	64
24							12	46	60	40	60	64
25							12	41	58	60	64	67
26							12	42	64	62	65	64
27							12	46	68	62	64	58
28							11	51	68	59	68	55
29							11	57	69	58	69	46
30							11	53	69	59	63	37
31								51		58	58	
TOTAL							381	963	1,948	1,705	1,732	1,987
MEAN							12.7	31.1	64.9	55.0	55.9	66.2
MAX							15	58	238	75	69	104
MIN							11	10	35	27	42	37
AC-FT							756	1,910	3,860	3,380	3,440	3,940

PLATTE RIVER BASIN

06673500 KATZER DRAIN NEAR HENRY, NEBR.

LOCATION.--Lat 41°58'45", long 104°04'15", in NW¼NW¼SW¼ sec.10, T.23 N., R.60 W., Goshen County, Wyoming, on left bank 0.2 mi (0.3 km) upstream from bridge on county road, 0.8 mi (1.3 km) upstream from mouth, and 1.7 mi (2.7 km) southwest of Henry.

DRAINAGE AREA.--45.9 mi² (118.9 km²), of which 8.2 mi² (21.2 km²) 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 4,040 ft (1,231 m), from topographic map. See WSP 1918 for history of changes prior to Dec. 1, 1950. Dec. 1, 1950, to Sept. 30, 1969, at site 1.0 mi (1.6 km) upstream at different datum. Oct. 1, 1969, to Mar. 31, 1974, at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--40 years (1931-71), 19.6 ft³/s (0.555 m³/s), 14,200 acre-ft/yr (17.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 142 ft³/s (4.02 m³/s) Sept. 12, gage height, 2.04 ft (0.622 m); minimum daily during period of operation, 6.1 ft³/s (0.17 m³/s) May 12.

Period of record: Maximum discharge, 1,230 ft³/s (34.8 m³/s) May 19, 1938, gage height, 9.47 ft (2.886 m), site and datum then in use, from rating curve extended above 330 ft³/s (9.35 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 0.50 ft³/s (0.014 m³/s) Jan. 14, 1937.

REMARKS.--Records fair. Flow is mainly return water from land irrigated by Fort Laramie Canal.

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

REVISIONS.--WSP 1710: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							8.5	9.2	58	49	48	83
2							8.5	9.2	63	51	50	86
3							7.0	9.2	69	41	52	91
4							13	9.2	71	44	56	88
5							12	8.9	71	47	69	79
6							26	8.9	74	40	59	84
7							52	8.5	77	38	52	87
8							23	8.5	95	38	52	89
9							18	7.4	101	35	55	87
10							16	7.0	76	38	73	80
11							18	7.7	64	41	67	81
12							24	6.1	60	42	68	117
13							18	23	63	45	63	110
14							15	47	63	42	55	103
15							14	33	61	47	49	103
16							13	46	61	42	48	103
17							13	41	59	45	48	91
18							12	35	53	48	50	83
19							12	31	52	52	52	78
20							12	40	53	21	48	79
21							12	40	55	12	51	78
22							11	40	51	9.6	56	78
23							11	38	52	8.1	61	69
24							11	33	59	17	66	65
25							10	32	56	48	67	70
26							10	39	51	40	68	70
27							10	45	48	38	64	58
28							9.2	49	45	37	69	44
29					-----		9.2	48	40	39	72	29
30					-----		9.2	53	44	70	75	20
31		-----			-----		-----	54	-----	47	77	-----
TOTAL							437.6	866.8	1,845	1,211.7	1,840	2,383
MEAN							14.6	28.0	61.5	39.1	59.4	79.4
MAX							52	54	101	70	77	117
MIN							7.0	6.1	40	8.1	48	20
AC-FT							868	1,720	3,660	2,400	3,650	4,730

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 650 ft (198 m) upstream from bridge on Nebr. State Highway 86, 700 ft (213 m) downstream from Wyoming-Nebraska State line, and 0.5 mi (0.8 km) south of Henry, Nebraska.

DRAINAGE AREA.--26,177 mi² (67,798 km²), of which 5,888 mi² (15,250 km²), including 3,959 mi² (10,254 km²) 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 (1,225 m), from topographic map. Prior to Nov. 6, 1929, nonrecording gage and Nov. 6, 1929, to Feb. 22, 1972, water-stage recorder at sites 0.5 mi (0.8 km) upstream at different datums.

EXTREMES.--Current year: Maximum discharge, 5,040 ft³/s (143 m³/s) Apr. 2, gage height, 5.17 ft (1.576 m); minimum daily, 276 ft³/s (7.82 m³/s) Jan. 4.

Period of record: Maximum discharge observed, 17,900 ft³/s (507 m³/s) June 2, 1929, gage height, 7.04 ft (2.146 m), site and datum then in use; minimum daily, 13 ft³/s (0.37 m³/s) May 12, 1961.

REMARKS.--Records good. 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 mi (1.3 km) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	578	480	330	436	972	4,700	3,500	1,280	2,830	1,220	926
2	1,130	583	485	300	441	1,510	4,780	2,940	1,220	2,760	1,220	891
3	1,070	605	480	282	441	1,990	4,880	2,740	1,150	2,560	1,250	842
4	1,010	611	485	276	432	2,520	4,800	2,620	1,110	2,250	1,270	772
5	980	600	470	280	428	3,100	4,820	2,530	1,080	1,930	1,300	730
6	956	588	455	282	428	3,540	4,760	2,480	1,070	1,670	1,290	704
7	926	600	446	288	428	3,900	4,740	2,360	1,070	1,590	1,230	665
8	912	647	441	292	414	4,310	4,620	2,180	1,240	1,530	1,230	617
9	905	672	446	290	392	4,440	4,640	1,860	1,820	1,510	1,230	578
10	912	653	450	290	405	4,560	4,660	1,600	2,150	1,480	1,240	561
11	1,040	653	455	300	405	4,720	3,530	1,370	2,270	1,580	1,190	530
12	1,250	665	450	316	410	4,780	4,440	1,300	2,600	1,580	1,130	578
13	1,090	653	446	340	410	4,820	4,500	1,200	2,830	1,500	1,100	605
14	905	641	446	386	414	4,840	4,600	1,160	2,900	1,460	1,050	600
15	835	605	428	444	414	4,840	4,640	996	2,900	1,400	1,030	605
16	800	583	418	530	418	4,860	4,680	996	2,850	1,390	1,040	600
17	779	566	410	588	423	4,840	4,680	1,060	2,850	1,370	1,040	588
18	730	550	408	710	418	4,840	4,580	988	2,750	1,550	1,040	572
19	698	535	410	617	418	4,760	4,540	940	2,750	1,510	1,040	545
20	678	530	414	594	423	4,760	4,540	884	2,750	1,320	1,030	535
21	672	525	423	583	414	4,780	4,580	800	2,780	1,300	1,010	525
22	659	520	428	561	423	4,740	4,620	849	2,850	1,300	1,020	525
23	653	510	436	535	418	4,720	4,310	1,030	2,910	1,260	1,040	515
24	641	500	446	500	400	4,660	4,060	1,080	3,040	1,300	1,060	510
25	641	495	441	485	396	4,640	3,820	1,100	3,170	1,330	1,070	515
26	641	495	428	485	387	4,640	3,810	1,150	3,170	1,340	1,040	556
27	629	490	405	480	387	4,640	3,740	1,210	3,190	1,260	1,010	545
28	623	490	410	465	605	4,580	3,690	1,220	3,150	1,240	996	605
29	617	480	392	450	-----	4,600	3,740	1,140	2,970	1,240	980	737
30	605	475	392	436	-----	4,640	3,710	1,180	2,820	1,290	972	717
31	600	-----	360	432	-----	4,720	-----	1,250	-----	1,240	956	-----
TOTAL	25,827	17,098	13,484	13,147	11,828	130,262	132,210	47,713	70,690	48,870	34,324	18,794
MEAN	833	570	435	424	422	4,202	4,407	1,539	2,356	1,576	1,107	626
MAX	1,250	672	485	710	605	4,860	4,880	3,500	3,190	2,830	1,300	926
MIN	600	475	360	276	387	972	3,530	800	1,070	1,240	956	510
AC-FT	51,230	33,910	26,750	26,080	23,460	258,400	262,200	94,640	140,200	96,930	68,080	37,280

CAL YR 1973 TOTAL 836,392 MEAN 2,291 MAX 8,500 MIN 200 AC-FT 1,659,000
WTR YR 1974 TOTAL 564,247 MEAN 1,546 MAX 4,880 MIN 276 AC-FT 1,119,000

PLATTE RIVER BASIN

06679500 NORTH PLATTE RIVER AT MITCHELL, NEBR.

LOCATION.--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, 0.5 mi (0.8 km) south of Mitchell.

DRAINAGE AREA.--28,300 mi² (73,300 km²), approximately, of which about 5,960 mi² (15,440 km²) 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 (1,197.65 m) 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 (0.305 m) higher.

EXTREMES.--Current year: Maximum discharge, 5,110 ft³/s (145 m³/s) Apr. 7, gage height, 7.13 ft (2.173 m); minimum daily, 266 ft³/s (7.53 m³/s) July 23.

Period of record: Maximum discharge, 27,500 ft³/s (779 m³/s) June 3, 1909, gage height, 6.45 ft (1.966 m), datum then in use, from graph based on gage readings, from rating curve extended above 17,000 ft³/s (481 m³/s); minimum daily observed, 25 ft³/s (0.71 m³/s) 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 Nebr. 1967: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,750	973	765	555	817	1,050	4,840	3,700	528	1,700	302	380
2	1,660	967	770	550	828	1,390	4,820	3,010	621	1,650	298	431
3	1,520	979	760	540	817	1,840	5,010	2,740	598	1,550	302	459
4	1,440	985	756	535	817	2,370	4,860	2,610	594	1,240	322	467
5	1,410	979	746	540	812	2,830	4,840	2,530	571	1,030	337	451
6	1,360	973	731	545	780	3,200	4,930	2,300	571	791	351	455
7	1,300	973	726	550	775	3,600	4,970	1,930	566	650	347	471
8	1,290	1,030	726	555	746	3,910	4,820	1,780	639	557	344	487
9	1,270	1,070	717	560	702	4,050	4,760	1,650	1,230	507	340	479
10	1,270	1,050	717	570	712	4,180	4,760	1,530	1,640	467	395	471
11	1,330	1,030	717	575	756	4,380	4,030	1,410	1,850	495	423	471
12	1,480	1,030	717	595	775	4,470	4,040	1,250	2,110	511	419	532
13	1,530	1,010	707	610	791	4,540	4,560	1,050	2,440	479	395	702
14	1,340	996	707	661	780	4,540	4,650	850	2,520	451	383	731
15	1,270	967	693	688	780	4,620	4,690	736	2,570	419	365	741
16	1,230	944	679	736	775	4,630	4,690	639	2,530	399	347	760
17	1,200	933	679	893	775	4,650	4,690	707	2,590	391	344	775
18	1,170	910	693	1,020	780	4,710	4,620	571	2,540	379	330	770
19	1,150	898	674	1,070	780	4,730	4,510	536	2,500	495	330	756
20	1,130	882	665	1,050	791	4,690	4,540	532	2,400	379	323	726
21	1,120	876	656	1,070	770	4,780	4,560	510	2,310	305	312	731
22	1,110	871	656	1,000	775	4,780	4,560	480	2,310	280	305	770
23	1,100	854	670	910	770	4,760	4,380	450	2,360	266	302	828
24	1,080	844	670	876	741	4,760	4,100	440	2,390	336	305	865
25	1,070	833	661	876	741	4,780	3,860	400	2,410	383	305	933
26	1,050	817	665	876	746	4,760	3,770	350	2,390	383	309	1,030
27	1,030	812	648	860	736	4,760	3,770	309	2,360	336	302	1,080
28	1,020	796	643	844	796	4,760	3,760	312	2,220	302	305	1,100
29	1,010	791	634	833	-----	4,690	3,770	326	2,010	284	319	1,170
30	996	770	625	822	-----	4,760	3,750	322	1,690	305	333	1,180
31	985	-----	616	812	-----	4,840	-----	415	-----	316	344	-----
TOTAL	38,671	27,843	21,489	23,177	21,664	126,810	133,910	36,375	54,058	18,036	10,438	21,202
MEAN	1,247	928	693	748	774	4,091	4,464	1,173	1,802	582	337	707
MAX	1,750	1,070	770	1,070	828	4,840	5,010	3,700	2,590	1,700	423	1,180
MIN	985	770	616	535	702	1,050	3,750	309	528	266	298	380
AC-FT	76,700	55,230	42,620	45,970	42,970	251,500	265,600	72,150	107,200	35,770	20,700	42,050

CAL YR 1973 TOTAL 823,686 MEAN 2,257 MAX 8,640 MIN 519 AC-FT 1,634,000
WTR YR 1974 TOTAL 533,673 MEAN 1,462 MAX 5,010 MIN 266 AC-FT 1,059,000

PLATTE RIVER BASIN

155

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 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 1973 TO SEPTEMBER 1974

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
October.....	0	0	0	0	0	0	0
November.....	0	0	0	0	0	0	0
December.....	0	0	0	0	0	0	0
January.....	0	0	0	0	0	0	0
February.....	0	0	0	0	0	0	0
March.....	0	0	0	0	0	0	0
April.....	0	0	0	0	0	0	0
May.....	40	522	0	2,290	0	0	2,520
June.....	208	797	466	5,500	0	0	1,810
July.....	48	369	184	7,600	0	0	12
August.....	0	94	0	2,480	0	0	0
September.....	0	6.0	0	0	0	0	0
Water year 1974.....	296	1,790	651	17,870	0	0	4,340

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 (30 m) upstream from bridge on U.S. Highways 187 and 189, 3.4 mi (5.5 km) upstream from Beaver Creek, and 12 mi (19 km) north of Daniel.

DRAINAGE AREA.--468 mi² (1,212 km²).

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 (2,276.274 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 515 ft³/s (14.58 m³/s), 373,100 acre-ft/yr (460 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,230 ft³/s (120 m³/s) June 19, gage height, 5.66 ft (1.725 m); minimum daily, 91 ft³/s (2.58 m³/s) Jan. 2.

Period of record: Maximum discharge, 4,840 ft³/s (137 m³/s) June 9, 1972, gage height, 5.77 ft (1.759 m); minimum recorded, 31 ft³/s (0.88 m³/s) Nov. 26, 1933, gage height, 0.70 ft (0.213 m), from rating curve extended below 120 ft³/s (3.40 m³/s).

REMARKS.--Records fair 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 (41.3 km²), of which about 6,100 acres (24.7 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	130	145	93	130	115	120	634	2,410	2,250	708	296
2	236	110	140	91	132	120	122	783	2,230	2,180	701	296
3	228	93	135	95	132	115	128	819	2,320	2,220	692	295
4	221	118	130	98	130	105	132	795	2,430	1,930	668	281
5	215	150	130	105	125	105	142	904	2,510	1,640	636	265
6	211	180	133	115	120	109	155	1,040	2,630	1,470	605	249
7	206	200	140	118	115	115	172	1,190	2,240	1,450	584	240
8	206	228	140	114	110	120	185	1,430	1,730	1,460	589	231
9	219	242	142	115	112	125	195	1,450	1,440	1,460	601	231
10	224	242	135	110	118	125	209	1,590	1,370	1,440	586	222
11	215	236	127	110	116	130	225	1,270	1,450	1,440	537	217
12	209	218	122	115	112	125	235	1,130	1,730	1,420	472	222
13	206	228	116	120	110	123	250	1,100	2,170	1,310	427	227
14	202	211	112	125	113	130	258	960	2,630	1,160	404	221
15	201	175	110	130	115	135	270	904	3,190	1,130	386	211
16	196	180	115	133	118	130	280	803	3,780	1,150	375	200
17	192	190	118	135	120	126	290	747	4,000	1,180	364	192
18	189	160	117	133	122	124	324	768	4,040	1,140	351	185
19	187	130	110	131	120	123	334	880	4,160	1,110	345	179
20	185	110	105	128	118	120	363	1,150	4,160	1,140	344	175
21	185	110	108	125	116	115	398	1,110	4,120	1,180	358	171
22	185	105	110	120	113	110	405	968	3,950	1,150	360	170
23	181	105	108	118	109	117	423	976	3,580	1,090	336	170
24	183	110	107	120	107	123	496	1,160	3,180	1,050	311	169
25	176	115	104	122	105	133	600	1,490	3,080	969	294	167
26	157	123	102	118	104	140	552	1,840	3,080	906	284	165
27	148	131	104	117	106	140	550	2,180	3,010	846	283	161
28	149	135	107	120	108	135	622	2,640	2,820	807	287	165
29	151	140	106	122	-----	130	489	3,080	2,550	785	292	163
30	150	144	100	127	-----	125	553	3,570	2,360	750	298	162
31	148	-----	95	128	-----	120	-----	3,060	-----	735	298	-----
TOTAL	6,000	4,749	3,673	3,651	3,256	3,808	9,477	42,421	84,350	39,948	13,776	6,298
MEAN	194	158	118	118	116	123	316	1,368	2,812	1,289	444	210
MAX	239	242	145	135	132	140	622	3,570	4,160	2,250	708	296
MIN	148	93	95	91	104	105	120	634	1,370	735	283	161
AC-FT	11,900	9,420	7,290	7,240	6,460	7,550	18,800	84,140	167,300	79,240	27,320	12,490

CAL YR 1973 TOTAL 159,641 MEAN 437 MAX 2,550 MIN 90 AC-FT 316,600
WTR YR 1974 TOTAL 221,407 MEAN 607 MAX 4,160 MIN 91 AC-FT 439,200

NOTE.--No gage-height record Nov. 27 to Apr. 2.

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 mi (0.8 km) east of Sherman ranger station, 0.8 mi (1.3 km) downstream from Spring Creek, 5.5 mi (8.8 km) upstream from South Horse Creek, and 17 mi (27 km) west of Daniel.

DRAINAGE AREA.--43.0 mi² (111 km²).

PERIOD OF RECORD.--October 1954 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 7,770.71 ft (2,368.512 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 69.6 ft³/s (1.971 m³/s), 50,430 acre-ft/yr (62.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,510 ft³/s (42.8 m³/s) June 15, gage height, 7.88 ft (2.402 m); minimum daily, 3.8 ft³/s (0.11 m³/s) Jan. 2.

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) June 1, 1956; maximum gage height, 7.88 ft (2.402 m) June 15, 1974; minimum daily discharge, 1.4 ft³/s (0.040 m³/s) 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 (1.46 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	5.7	7.2	4.0	5.2	4.8	4.9	145	758	201	22	6.3
2	8.6	5.6	7.0	3.8	5.1	4.7	4.9	183	794	228	22	6.0
3	8.1	6.0	6.7	3.9	5.0	4.6	5.0	180	824	180	24	5.6
4	8.1	7.2	6.5	4.0	4.8	4.4	5.2	172	842	152	25	6.3
5	7.6	8.0	6.6	4.2	4.7	4.2	5.4	192	890	135	24	6.0
6	7.6	8.4	7.0	4.4	4.6	4.1	5.7	234	764	122	18	6.0
7	7.6	9.0	7.3	4.5	4.6	4.2	6.2	261	580	108	22	5.2
8	7.8	9.5	7.0	4.6	4.7	4.3	6.6	306	458	97	21	5.2
9	9.1	9.7	6.8	4.7	4.8	4.4	7.0	390	471	89	18	5.6
10	9.7	9.6	6.6	4.8	4.9	4.5	7.6	412	595	81	20	5.2
11	8.7	9.3	6.7	4.9	5.0	4.6	8.1	278	740	76	16	6.0
12	8.9	8.9	6.8	4.9	5.0	4.8	8.8	225	836	67	14	7.6
13	8.7	8.6	6.8	5.0	5.1	4.9	9.7	207	950	61	13	8.1
14	9.9	8.2	6.6	5.1	5.2	5.0	11	183	1,010	58	12	7.0
15	10	7.8	6.4	5.0	5.2	5.1	12	160	1,050	60	11	7.0
16	9.2	8.2	6.2	4.9	5.1	5.2	13	142	1,040	71	10	6.3
17	8.6	8.0	6.0	4.8	5.0	5.3	16	138	956	54	9.8	6.3
18	8.0	7.7	5.8	4.7	4.9	5.4	17	168	782	52	8.6	6.0
19	7.8	7.4	5.7	4.6	4.8	5.5	17	213	692	51	8.6	6.0
20	7.7	7.0	5.6	4.5	4.7	5.6	20	231	665	51	8.6	6.0
21	8.0	6.7	5.4	4.5	4.6	5.5	24	178	570	50	12	6.3
22	7.6	6.8	5.3	4.4	4.5	5.4	23	162	480	45	10	6.3
23	7.4	7.0	5.2	4.4	4.4	5.2	24	178	448	41	8.1	6.6
24	7.5	7.5	5.1	4.5	4.3	5.1	30	254	440	40	7.0	6.6
25	7.3	7.8	5.0	4.5	4.4	5.0	32	399	404	34	6.6	7.0
26	6.5	8.0	4.9	4.6	4.5	5.2	83	530	354	30	6.3	6.6
27	6.2	8.2	4.8	4.7	4.6	5.4	140	782	326	27	6.0	7.0
28	6.1	8.0	4.7	4.8	4.8	5.4	125	818	296	25	6.0	8.1
29	5.8	7.8	4.5	4.9	-----	5.3	115	836	272	24	6.0	8.1
30	5.7	7.6	4.4	5.1	-----	5.2	122	746	237	23	6.6	8.1
31	5.8	-----	4.2	5.2	-----	5.0	-----	670	-----	22	7.0	-----
TOTAL	244.8	235.2	184.8	142.9	134.5	153.3	909.1	9,973	19,524	2,355	409.2	194.4
MEAN	7.90	7.84	5.96	4.61	4.80	4.95	30.3	322	651	76.0	13.2	6.48
MAX	10	9.7	7.3	5.2	5.2	5.6	140	836	1,050	228	25	8.1
MIN	5.7	5.6	4.2	3.8	4.3	4.1	4.9	139	237	22	6.0	5.2
AC=FT	486	467	367	283	267	304	1,800	19,780	38,730	4,670	812	386

CAL YR 1973 TOTAL 20,754.6 MEAN 56.9 MAX 722 MIN 3.8 AC=FT 41,170
WTR YR 1974 TOTAL 34,460.2 MEAN 94.4 MAX 1,050 MIN 3.8 AC=FT 68,350

PEAK DISCHARGE (BASE, 200 FT³/S)

NOTE.--No gage height record Jan. 12 to Apr. 2.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5- 9	2030	5.80	510	6- 4	0100	7.07	974
5-19	2330	5.02	261	6-15	2230	7.88	1,510

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 mi (0.8 km) upstream from Fremont Lake, 0.5 mi (0.8 km) downstream from Fremont Creek, and 12 mi (19 km) northeast of Pinedale.

DRAINAGE AREA.--75.8 mi² (196 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (2,298 m), from topographic map.

AVERAGE DISCHARGE.--20 years, 181 ft³/s (5.126 m³/s), 131,100 acre-ft/yr (162 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,010 ft³/s (56.9 m³/s) June 18, gage height, 6.57 ft (2.003 m); minimum daily, 14 ft³/s (0.40 m³/s) Mar. 1.

Period of record: Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, 1959, gage height, 7.15 ft (2.179 m); minimum daily, 6.0 ft³/s (0.17 m³/s) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	42	42	24	22	14	23	97	596	997	204	66
2	84	43	40	23	22	15	23	110	734	846	201	65
3	79	44	40	22	23	16	23	103	904	756	197	64
4	74	46	39	21	24	16	23	100	1,010	636	189	63
5	70	50	37	21	24	17	22	118	952	642	179	61
6	66	52	36	22	24	17	22	145	741	630	166	59
7	62	58	35	21	23	19	21	177	551	630	161	57
8	60	63	33	20	23	21	21	227	428	642	158	55
9	62	64	31	21	24	22	21	248	373	605	155	51
10	61	61	30	23	24	23	23	243	449	605	152	49
11	58	60	28	24	22	22	24	201	706	620	143	46
12	56	60	27	25	21	22	24	177	1,030	555	130	44
13	55	61	27	26	20	21	24	161	1,320	480	121	43
14	55	61	27	24	19	20	24	145	1,650	445	112	41
15	55	61	27	23	18	21	27	136	1,820	426	105	40
16	57	60	27	22	18	21	27	124	1,800	445	98	39
17	57	59	27	23	18	22	30	118	1,760	445	93	38
18	56	60	27	22	17	22	36	125	1,850	412	90	37
19	55	61	27	23	17	21	41	134	1,710	440	87	36
20	54	57	27	23	17	20	41	133	1,660	550	85	35
21	53	56	27	22	18	20	42	124	1,730	480	84	33
22	52	52	26	21	16	21	46	115	1,560	394	82	31
23	50	50	26	22	16	22	58	113	1,480	357	80	30
24	48	50	25	23	16	22	75	133	1,480	345	79	28
25	47	49	25	23	16	21	101	191	1,510	309	79	27
26	45	48	24	22	15	21	129	298	1,460	281	77	26
27	44	46	24	21	15	21	111	457	1,300	258	74	25
28	44	45	26	21	15	21	100	577	1,170	240	72	25
29	43	44	27	20	-----	21	91	730	1,150	237	70	25
30	42	43	27	20	-----	22	89	688	1,110	227	69	24
31	42	-----	25	21	-----	23	-----	567	-----	215	67	-----
TOTAL	1,774	1,606	916	689	547	627	1,362	7,015	35,994	15,150	3,659	1,263
MEAN	57.2	53.5	29.5	22.2	19.5	20.2	45.4	225	1,200	489	118	42.1
MAX	88	64	42	26	24	23	129	730	1,850	997	204	66
MIN	42	42	24	20	15	14	21	97	373	215	67	24
AC-FT	3,520	3,190	1,820	1,370	1,080	1,240	2,700	13,910	71,390	30,050	7,260	2,510

CAL YR 1973 TOTAL 60,388.9 MEAN 165 MAX 1,590 MIN 9.9 AC-FT 119,000
WTR YR 1974 TOTAL 70,602.0 MEAN 193 MAX 1,850 MIN 14 AC-FT 140,000

PEAK DISCHARGE (BASE, 800 FT³/S)

NOTE.--No gage height record Dec. 26 to Jan. 31.

DATE	TIME	G.HT.	DISCHARGE
6-4	0600	5.37	1,040
6-18	0300	6.57	2,010

GREEN RIVER BASIN

159

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 1.0 mi (1.6 km) downstream from Jim Creek and 4.0 mi (6.4 km) northeast of Big Sandy.

DRAINAGE AREA.--79.2 mi² (205 km²).

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 (2,377 m), by barometer.

AVERAGE DISCHARGE.--36 years, 104 ft³/s (2.945 m³/s), 75,350 acre-ft/yr (92.9 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,480 ft³/s (41.9 m³/s) May 29, gage height, 6.65 ft (2.027 m); minimum daily, 5.4 ft³/s (0.15 m³/s) Sept. 28, 29.

Period of record: Maximum discharge, 1,790 ft³/s (50.7 m³/s) June 11, 1965, gage height, 7.16 ft (2.182 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage height 6.88 ft (2.097 m); minimum observed, 1.2 ft³/s (0.034 m³/s) Jan. 4, 1940 (discharge measurement).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	17	16	10	14	10	15	81	952	278	55	12
2	31	19	16	10	14	11	16	93	1,040	254	56	11
3	28	22	15	11	14	10	15	99	1,140	284	56	11
4	27	26	14	12	14	10	15	102	1,080	222	58	10
5	25	28	13	13	15	11	15	135	1,030	200	59	9.6
6	24	32	12	13	15	11	15	178	746	185	54	9.1
7	22	32	12	12	15	11	16	212	559	180	50	8.6
8	21	33	12	12	15	11	16	299	434	192	48	8.2
9	25	34	11	13	15	12	15	438	442	175	45	7.7
10	29	33	11	14	15	12	16	450	559	165	45	7.2
11	29	31	11	15	14	13	15	344	735	158	45	7.4
12	27	30	11	16	14	14	15	330	928	140	42	8.8
13	26	29	10	17	13	14	16	305	1,040	121	37	9.5
14	30	28	10	17	13	14	16	272	1,200	111	35	9.3
15	34	29	9.8	17	12	15	16	228	1,190	106	32	9.2
16	35	29	10	17	11	16	17	192	964	109	29	8.2
17	34	27	11	17	11	17	18	192	874	106	27	7.4
18	31	27	11	17	11	16	22	228	910	99	24	7.1
19	29	26	12	17	10	14	25	305	784	109	22	6.8
20	27	25	11	16	10	13	26	311	735	120	21	6.8
21	26	24	12	16	10	14	24	265	790	114	20	6.8
22	25	23	12	15	10	14	25	230	631	105	19	6.8
23	23	22	12	16	10	15	32	222	568	93	18	6.4
24	22	21	12	15	10	16	41	254	522	89	17	6.0
25	22	20	11	15	10	16	60	383	522	82	16	6.8
26	18	19	11	14	10	17	78	625	490	74	15	6.4
27	18	18	11	14	10	18	66	930	442	67	14	5.7
28	19	17	12	14	10	16	57	1,180	372	62	14	5.4
29	19	16	12	14	-----	16	54	1,360	341	58	13	5.4
30	18	15	11	13	-----	16	64	1,020	311	56	13	6.0
31	18	-----	11	13	-----	16	-----	885	-----	54	12	-----
TOTAL	795	752	365.8	445	345	429	841	12,150	22,339	4,168	1,011	236.6
MEAN	25.6	25.1	11.8	14.4	12.3	13.8	28.0	392	745	134	32.6	7.89
MAX	35	34	16	17	15	18	78	1,360	1,200	284	59	12
MIN	18	15	9.8	10	10	10	15	81	311	54	12	5.4
AC-FT	1,580	1,490	726	883	684	851	1,670	24,100	44,310	8,270	2,010	469

CAL YR 1973 TOTAL 37,284.4 MEAN 102 MAX 1,030 MIN 8.3 AC-FT 77,950
 WTR YR 1974 TOTAL 43,877.4 MEAN 120 MAX 1,360 MIN 5.4 AC-FT 87,030

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-29	0130	6.65	1,480
6-14	0500	6.56	1,420

GREEN RIVER BASIN

09205000 NEW FORK RIVER NEAR BIG PINEY, WYO.

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 (11 m) downstream from old highway bridge, 3.4 mi (5.5 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Big Piney.

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

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

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

AVERAGE DISCHARGE.--20 years, 729 ft³/s (20.65 m³/s), 528,200 acre-ft/yr (651 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,820 ft³/s (165 m³/s) June 18, gage height, 6.38 ft (1.945 m); minimum daily, 220 ft³/s (6.23 m³/s) Jan. 2.

Period of record: Maximum discharge, 9,170 ft³/s (260 m³/s) June 10, 1972, gage height, 8.15 ft (2.484 m); minimum daily, 90 ft³/s (2.55 m³/s) Jan. 13, 1963.

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, power development, and diversion for irrigation of about 62,100 acres (251 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	380	325	222	295	305	445	555	3,180	2,510	590	294
2	455	400	310	220	285	285	440	582	3,210	2,370	573	288
3	424	410	295	225	280	270	372	607	3,520	2,510	666	300
4	417	431	270	235	275	250	353	590	3,910	2,320	658	294
5	415	428	255	245	275	230	347	564	4,220	2,000	641	294
6	408	454	240	250	280	250	359	590	4,440	1,720	607	294
7	410	444	250	250	285	265	404	615	4,040	1,560	582	294
8	409	473	255	255	290	290	404	665	3,250	1,360	582	294
9	422	500	260	275	295	310	417	947	2,560	1,280	564	294
10	468	491	250	280	290	325	452	1,320	2,240	1,230	573	294
11	464	483	260	290	285	365	438	1,460	2,200	1,170	573	294
12	456	483	270	295	290	425	452	1,370	2,480	1,110	530	305
13	460	490	270	300	300	480	452	1,260	3,110	1,100	505	317
14	465	483	260	310	310	535	430	1,210	3,900	1,090	539	317
15	469	465	270	310	305	595	445	1,100	4,720	1,080	514	323
16	442	445	270	300	295	640	475	958	5,460	1,100	490	323
17	437	430	275	300	290	660	522	850	5,750	1,100	468	323
18	428	420	280	295	290	635	564	780	5,710	1,070	410	323
19	422	410	275	290	285	600	598	760	5,660	1,050	391	317
20	413	400	290	280	280	555	582	820	5,350	1,190	372	311
21	412	390	290	275	275	509	582	881	5,010	1,200	384	323
22	407	380	300	270	275	490	548	800	5,030	1,160	378	329
23	403	360	290	268	280	455	505	742	4,780	1,070	365	329
24	394	353	280	270	285	450	522	713	4,420	1,040	359	329
25	391	342	270	280	300	460	514	751	4,060	1,000	353	329
26	386	349	260	280	315	495	573	969	3,770	947	347	323
27	377	380	260	290	320	520	675	1,420	3,540	881	335	341
28	372	360	250	290	315	505	616	2,120	3,320	800	317	335
29	386	352	240	300	-----	460	573	2,860	3,020	770	305	335
30	383	340	235	305	-----	440	539	3,640	2,740	694	305	341
31	387	-----	225	300	-----	450	-----	3,520	-----	616	305	-----
TOTAL	13,059	12,526	8,330	8,555	8,145	13,504	14,598	36,022	118,600	40,098	14,581	9,407
MEAN	421	418	269	276	291	436	487	1,162	3,953	1,293	470	314
MAX	477	500	325	310	320	660	675	3,640	5,750	2,510	666	341
MIN	372	340	225	220	275	230	347	555	2,200	616	305	288
AC-FT	25,900	24,850	16,520	16,970	16,160	26,790	28,960	71,450	235,200	79,530	28,920	18,660

CAL YR 1973 TOTAL 262,758 MEAN 720 MAX 4,600 MIN 190 AC-FT 521,200
 WTR YR 1974 TOTAL 297,425 MEAN 815 MAX 5,750 MIN 220 AC-FT 589,900

NOTE.--No gage-height record Feb. 23 to Apr. 3.

GREEN RIVER BASIN

161

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 mi (0.8 km) upstream from Crystal Creek, 2.0 mi (3.2 km) southeast of La Barge Meadows ranger station, and 29 mi (46.7 km) northwest of La Barge.

DRAINAGE AREA.--6.3 mi² (16.3 km²), 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 (2,563 m), from topographic map. Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft (91 m) upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

AVERAGE DISCHARGE.--26 years, 14.3 ft³/s (0.405 m³/s), 10,360 acre-ft/yr (12.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 152 ft³/s (4.30 m³/s) June 5, gage height, 4.98 ft (1.518 m); maximum gage height, 6.20 ft (1.890 m) Mar. 8 (backwater from snow); minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Mar. 3, 4.

Period of record: Maximum discharge, 196 ft³/s (5.55 m³/s) June 9, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 7.08 ft (2.158 m) Nov. 26, 1967 (backwater from snow); minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Jan. 29 to Feb. 2, 1963.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.1	3.7	2.8	4.3	2.8	3.0	16	106	31	11	6.0
2	4.5	4.2	3.8	2.7	4.3	2.7	3.0	20	114	31	13	5.9
3	4.5	4.5	3.9	2.8	4.2	2.6	3.0	19	114	27	12	6.0
4	4.5	4.5	4.1	2.9	4.2	2.6	3.0	21	120	25	11	5.9
5	4.5	4.5	4.2	3.0	4.2	2.7	3.0	25	137	24	11	5.9
6	4.5	4.8	4.2	2.9	4.2	2.9	3.0	29	111	23	11	5.9
7	4.5	4.8	3.9	2.9	3.9	3.1	3.2	36	88	22	12	5.9
8	4.8	4.8	3.9	2.8	3.7	3.2	3.0	45	77	20	12	5.9
9	5.1	4.8	3.9	2.9	3.8	3.2	3.0	50	78	19	12	5.9
10	5.1	4.8	3.9	3.0	3.8	3.2	3.0	48	81	19	12	5.9
11	5.1	4.8	3.7	3.2	3.9	3.1	3.2	34	89	18	11	5.9
12	5.1	4.8	3.8	3.3	3.7	3.0	3.7	33	99	18	11	5.9
13	5.1	4.8	3.8	3.5	3.7	2.9	3.5	31	108	17	11	5.9
14	5.1	4.7	3.8	3.6	3.5	3.0	3.5	26	118	17	11	5.9
15	4.8	4.5	3.7	3.7	3.2	3.1	3.7	24	120	17	11	6.2
16	4.5	4.2	3.7	3.8	3.0	3.0	3.7	22	116	18	11	6.2
17	4.5	4.5	3.7	3.8	3.0	3.0	4.2	24	114	17	11	6.7
18	4.5	4.5	3.7	3.7	3.0	3.0	5.1	31	110	15	11	6.2
19	4.2	4.2	3.7	3.6	3.0	3.2	6.7	37	103	15	9.8	6.2
20	4.5	4.1	3.7	3.5	3.1	3.2	7.1	36	98	15	10	5.9
21	4.5	4.2	3.5	3.4	3.0	3.2	6.7	29	91	15	10	5.9
22	4.5	4.1	3.7	3.3	3.1	3.1	7.1	27	80	15	9.8	5.9
23	4.8	4.2	3.7	3.3	3.1	3.2	11	27	72	14	9.6	5.7
24	5.1	4.1	3.6	3.4	3.2	3.2	13	29	66	14	8.9	5.8
25	4.8	4.1	3.6	3.5	3.2	3.0	15	35	62	13	8.8	6.2
26	4.5	4.1	3.5	3.6	3.0	2.8	16	53	56	12	7.7	5.8
27	4.2	4.1	3.3	3.7	3.0	3.0	16	81	48	12	7.6	5.7
28	4.5	4.0	3.2	3.8	2.8	3.0	15	106	41	13	6.9	5.9
29	4.5	3.9	3.1	3.9	-----	3.0	15	111	37	12	6.5	5.8
30	4.2	3.9	3.0	4.0	-----	3.0	15	100	34	12	6.3	6.1
31	4.1	-----	2.9	4.1	-----	3.0	-----	99	-----	12	6.0	-----
TOTAL	143.9	131.6	113.9	104.4	98.1	93.0	204.4	1,304	2,688	552	312.9	179.0
MEAN	4.64	4.39	3.67	3.37	3.50	3.00	6.81	42.1	89.6	17.8	10.1	5.97
MAX	5.1	4.8	4.2	4.1	4.3	3.2	16	111	137	31	13	6.7
MIN	4.1	3.9	2.9	2.7	2.8	2.6	3.0	16	34	12	6.0	5.7
AC-FT	285	261	226	207	195	184	405	2,590	5,330	1,090	621	355

CAL YR 1973 TOTAL 3,930.5 MEAN 10.8 MAX 73 MIN 2.9 AC-FT 7,800
WTR YR 1974 TOTAL 5,925.2 MEAN 16.2 MAX 137 MIN 2.6 AC-FT 11,750

PEAK DISCHARGE (BASE, 120 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
6- 5	1600	4.98	152
6-14	1930	4.77	130

LOCATION.--Lat 42°11'34", long 110°09'45", in SE4SE4NW4 sec.33, T.26 N., R.112 W., Lincoln County, on right bank 1.7 mi (2.7 km) upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft (1,985.2 m), 4.0 mi (6.4 km) upstream from Muddy Creek, and 5.0 mi (8.0 km) south of La Barge.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres (801 km²) 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	972	815	540	420	550	595	1,200	2,250	8,020	5,400	1,750	748
2	948	825	500	400	540	570	1,180	2,490	7,150	5,160	1,720	731
3	912	840	470	390	530	550	998	2,880	6,870	5,500	1,940	732
4	889	850	450	410	520	510	949	2,850	7,290	5,470	1,980	737
5	878	856	430	440	530	500	920	2,690	7,820	4,800	1,860	722
6	870	990	417	460	540	500	906	2,820	8,320	4,180	1,730	700
7	859	986	430	470	530	520	914	3,150	8,880	3,680	1,590	683
8	858	998	450	465	540	550	950	3,300	8,600	3,300	1,540	667
9	874	1,060	460	490	550	590	957	3,850	6,900	3,100	1,500	653
10	940	1,080	450	500	560	650	1,010	4,350	5,400	3,000	1,520	645
11	981	1,060	460	510	550	730	1,020	4,980	4,680	2,890	1,530	638
12	959	1,060	480	530	530	800	1,000	4,620	4,680	2,820	1,440	635
13	940	1,070	490	540	550	910	1,050	4,000	5,280	2,790	1,320	659
14	945	1,060	490	550	570	1,000	976	3,580	6,420	2,730	1,260	685
15	948	970	475	560	570	1,100	989	3,220	7,780	2,620	1,220	692
16	940	955	480	570	560	1,200	1,040	2,850	9,320	2,740	1,160	687
17	906	930	500	570	550	1,350	1,210	2,570	10,700	2,960	1,110	674
18	889	940	500	560	540	1,450	1,450	2,290	11,600	2,950	1,060	665
19	873	930	485	550	540	1,450	1,640	2,100	11,700	2,890	984	653
20	861	905	500	530	530	1,400	1,760	2,230	11,700	2,890	946	639
21	850	870	520	520	525	1,380	1,820	2,530	11,100	3,070	933	638
22	850	830	540	510	520	1,300	1,920	2,530	10,800	3,060	944	641
23	845	770	525	500	515	1,250	1,790	2,210	10,500	2,930	943	637
24	835	730	510	500	530	1,150	1,880	1,950	9,800	2,770	908	629
25	824	690	500	500	550	1,130	2,040	1,900	8,880	2,720	881	610
26	819	630	485	510	570	1,230	2,310	2,230	8,020	2,520	856	599
27	807	580	480	520	600	1,290	2,750	2,950	7,540	2,350	829	596
28	799	550	465	530	620	1,350	2,670	4,150	7,080	2,190	802	611
29	809	520	455	550	-----	1,250	2,480	5,680	6,560	2,140	780	613
30	831	520	445	560	-----	1,150	2,130	7,220	5,860	2,060	770	619
31	815	-----	435	570	-----	1,180	-----	8,100	-----	1,890	767	-----
TOTAL	27,326	25,870	14,817	15,685	15,310	30,585	43,909	104,520	245,250	99,570	38,573	19,838
MEAN	881	862	478	506	547	987	1,464	3,372	8,175	3,212	1,244	661
MAX	981	1,080	540	570	620	1,450	2,750	8,100	11,700	5,500	1,980	748
MIN	799	520	417	390	515	500	906	1,900	4,680	1,890	767	596
AC=FT	54,200	51,310	29,390	31,110	30,370	60,670	87,090	207,300	486,500	197,500	76,510	39,350
CAL YR 1973	TOTAL	527,595	MEAN	1,445	MAX	6,450	MIN	360	AC=FT	1,046,000		
WTR YR 1974	TOTAL	681,253	MEAN	1,866	MAX	11,700	MIN	390	AC=FT	1,351,000		

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 2.0 mi (3.2 km) downstream from Dutch George Creek and 14 mi (22.5 km) west of Fontenelle.

DRAINAGE AREA.--152 mi² (394 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Prior to May 5, 1970, at site 300 ft (91 m) downstream at present datum.

AVERAGE DISCHARGE.--23 years, 71.3 ft³/s (2.019 m³/s), 51,660 acre-ft/yr (63.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 409 ft³/s (11.6 m³/s) June 5, gage height, 7.69 ft (2.344 m); minimum daily, 20 ft³/s (0.57 m³/s) Jan 2.

Period of record: Maximum discharge, 821 ft³/s (23.3 m³/s) June 13, 1965, gage height, 6.87 ft (2.094 m), site then in use; maximum gage height, 7.93 ft (2.417 m) Dec. 24, 1955 (backwater from ice), site then in use; minimum daily discharge, 10 ft³/s (0.28 m³/s) 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 (3.16 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	26	27	21	31	26	50	217	332	140	39	33
2	31	28	26	20	31	26	45	257	328	142	41	35
3	27	30	25	21	31	25	43	266	337	142	44	38
4	28	32	24	23	30	25	42	259	344	124	44	36
5	29	33	26	24	29	23	41	281	386	116	41	35
6	29	41	28	26	28	24	40	293	380	109	40	34
7	29	48	29	25	27	24	43	296	339	103	38	33
8	31	82	29	24	28	25	47	337	319	99	36	33
9	33	63	28	23	29	26	50	366	274	95	36	32
10	39	46	27	23	31	27	54	344	262	87	37	32
11	36	41	28	24	30	27	52	274	264	82	35	32
12	35	41	30	26	31	28	56	246	271	78	35	33
13	32	47	30	27	32	29	56	230	291	73	35	36
14	31	42	29	29	33	30	54	215	310	72	35	33
15	31	34	29	30	32	32	66	204	325	72	35	35
16	32	35	30	30	30	36	106	190	326	76	34	34
17	30	35	30	29	28	55	137	188	314	76	33	33
18	29	32	29	28	27	73	178	191	300	73	34	32
19	29	28	29	27	28	76	172	199	284	78	35	32
20	29	28	28	26	27	63	191	220	267	82	36	31
21	29	28	27	26	27	52	210	223	252	82	36	32
22	29	27	28	28	26	43	202	209	236	73	36	42
23	29	26	27	30	25	38	231	199	220	68	35	30
24	30	27	27	30	24	38	255	191	206	66	34	29
25	30	28	26	29	25	39	269	199	191	58	33	29
26	28	29	25	27	26	43	293	222	182	54	32	28
27	26	30	25	26	26	52	228	269	172	50	32	27
28	28	31	24	27	25	53	188	325	159	47	31	29
29	29	29	24	28	-----	51	161	368	151	42	31	30
30	28	28	23	30	-----	50	178	382	146	43	31	30
31	27	-----	22	32	-----	52	-----	357	-----	41	32	-----
TOTAL	935	1,075	839	819	797	1,211	3,738	8,017	8,168	2,543	1,106	978
MEAN	30.2	35.8	27.1	26.4	28.5	39.1	125	259	272	82.0	35.7	32.6
MAX	39	82	30	32	33	76	293	382	336	142	44	42
MIN	26	26	22	20	24	23	40	188	146	41	31	27
AC-FT	1,850	2,130	1,666	1,620	1,580	2,400	7,410	15,900	16,200	5,040	2,190	1,940

CAL YR 1973 TOTAL 21,504 MEAN 58.9 MAX 326 MIN 22 AC-FT 42,650
WTR YR 1974 TOTAL 30,226 MEAN 82.8 MAX 386 MIN 20 AC-FT 59,950

PEAK DISCHARGE (BASF, 150 FT³/S)

NOTE.--No gage-height record Aug. 3 to Sept. 11.

DATE	TIME	G.HT.	DISCHARGE
4-26	0100	7.56	373
5-9	0500	7.62	397
6-5	1530	7.69	409

GREEN RIVER BASIN

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WYO.

LOCATION.--Lat' 42°02'00", long 110°04'00", in S½ sec.25, T.24 N., R.112 W., Lincoln County, at dam on Green River, 3.0 mi (4.8 km) north of Fontenelle, and 3.5 mi (5.6 km) upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi² (11,085 km²), 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, 361,600 acre-ft (446 hm³) June 24, elevation, 6,507.98 ft (1,983.632 m); minimum daily, 166,300 acre-ft (205 hm³) Apr. 11, elevation, 6,479.93 ft (1,975.083 m).

Period of record: Maximum daily contents, 387,000 acre-ft (477 hm³) June 29, 1965, elevation, 6,511.01 ft (1,984.556 m); minimum daily, 5,680 acre-ft (7.00 hm³) July 28, 1967, elevation, 6,423.98 ft (1,958.029 m).

REMARKS.--Reservoir is formed by earthfill dam completed by Bureau of Reclamation in April 1964. Capacity, 344,800 acre-ft (425 hm³) between elevations 6,506.0 ft (1,983.03 m), crest of spillway, and 6,408.0 ft (1,953.16 m), invert of outlet pipe. Dead storage, below elevation 6,408.0 ft (1,953.16 m), 563 acre-ft (0.694 hm³). Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

REVISIONS.--WSP 2125: Drainage area.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,504.98	337,300	-
Oct. 31	6,503.43	325,000	-12,300
Nov. 30	6,503.25	323,600	-1,400
Dec. 31	6,502.01	314,000	-9,600
CAL YR 1973	-	-	+4,100
Jan. 31	6,496.96	276,200	-37,800
Feb. 28	6,487.04	208,300	-67,900
Mar. 31	6,481.38	174,300	-34,000
Apr. 30	6,483.86	188,700	+14,400
May 31	6,487.31	210,000	+21,300
June 30	6,507.23	355,400	+145,400
July 31	6,506.36	348,300	-7,100
Aug. 31	6,503.94	329,000	-19,300
Sept. 30	6,502.25	315,900	-13,100
WTR YR 1974	-	-	-21,400

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 mi (1.6 km) downstream from Fontenelle Dam, 2.5 mi (4.0 km) upstream from Slate Creek, and 6.0 mi (9.7 km) southeast of Fontenelle.

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

EXTREMES.--Current year: Maximum discharge, 8,820 ft³/s (250 m³/s) June 25, gage height, 15.73 ft (4.794 m); minimum daily, 636 ft³/s (18.0 m³/s) Sept. 30.

Period of record: Maximum discharge, 19,400 ft³/s (549 m³/s) Sept. 5, 1965, gage height, 18.74 ft (5.712 m), from floodmarks, caused by emergency release from Fontenelle Reservoir; minimum daily, 209 ft³/s (5.92 m³/s) Nov. 22-24, 1968.

REMARKS.--Records fair. Flow completely regulated by Fontenelle Reservoir 1.0 mi (1.6 km) upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres (817 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2125: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	853	1,000	676	860	1,840	1,720	1,550	2,200	5,100	6,200	2,340	1,200
2	1,220	1,000	716	860	1,820	1,650	1,550	2,470	5,120	5,540	1,840	1,200
3	1,480	1,000	724	900	1,820	1,640	1,590	2,790	5,360	5,420	1,790	1,120
4	1,610	1,000	749	880	1,820	1,630	1,630	2,790	5,780	5,600	1,790	840
5	1,610	1,000	776	870	1,820	1,630	1,640	2,790	6,100	5,300	1,810	776
6	1,520	990	785	821	1,840	1,650	1,640	2,930	6,120	4,820	1,810	776
7	1,120	990	785	870	1,810	1,640	1,640	2,900	6,180	4,560	1,790	776
8	940	980	767	870	1,820	1,640	1,580	3,390	6,220	3,920	1,750	785
9	930	980	724	840	1,840	1,630	1,440	3,740	6,180	3,010	1,710	785
10	930	970	732	821	1,820	1,610	1,440	3,750	5,540	2,510	1,670	785
11	920	970	767	758	1,820	1,610	1,440	3,770	4,470	2,560	1,650	785
12	920	970	758	767	1,820	1,470	1,380	3,770	3,420	2,590	1,610	794
13	910	980	724	794	1,820	1,310	1,270	4,130	2,980	2,630	1,610	803
14	900	980	724	724	1,820	1,270	1,270	4,470	2,980	2,630	1,600	803
15	890	990	708	708	1,820	1,340	1,260	4,470	2,990	2,610	1,410	776
16	900	980	758	724	1,820	1,340	1,240	4,470	3,010	2,590	1,580	758
17	890	990	767	700	1,810	1,340	1,220	4,490	3,570	2,640	1,600	758
18	880	990	785	850	1,810	1,340	1,340	4,470	4,580	2,690	1,590	740
19	880	860	794	1,130	1,810	1,460	1,550	4,470	5,680	2,790	1,410	803
20	890	692	794	1,340	1,810	1,590	1,640	4,200	6,260	2,770	1,250	803
21	880	749	749	1,600	1,810	1,590	1,650	3,840	6,280	2,800	1,260	812
22	880	758	785	1,750	1,810	1,580	1,670	3,610	6,960	2,830	1,260	812
23	880	749	785	1,820	1,810	1,580	1,650	3,210	8,040	2,870	1,250	821
24	880	776	758	1,820	1,790	1,580	1,650	2,700	8,700	2,800	1,240	767
25	940	767	758	1,820	1,820	1,580	1,650	1,670	8,700	2,770	1,210	684
26	1,000	758	724	1,810	1,820	1,550	1,650	1,680	8,350	2,670	1,200	652
27	1,000	794	776	1,790	1,820	1,550	1,670	1,700	7,690	2,590	1,200	652
28	1,000	767	794	1,790	1,820	1,580	1,680	2,040	6,940	2,450	1,210	644
29	1,000	767	776	1,840	-----	1,560	1,920	2,820	6,640	2,360	1,200	644
30	1,000	660	812	1,840	-----	1,550	2,200	3,670	6,520	2,580	1,190	636
31	1,000	-----	850	1,840	-----	1,550	-----	4,580	-----	2,750	1,190	-----
TOTAL	31,653	26,857	23,580	36,807	50,910	47,760	46,700	103,980	172,460	102,850	47,020	23,990
MEAN	1,021	895	761</									

GREEN RIVER BASIN

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 mi (0.8 km) downstream from Squaw Creek, and 9.0 mi (14.5 km) southeast of Rig Sandy.

DRAINAGE AREA.--94 mi² (243 km²), 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 (2,377 m), 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 (23 m) downstream at present datum.

AVERAGE DISCHARGE.--32 years (1939-71), 86.0 ft³/s (2.436 m³/s), 62,310 acre-ft/yr (76.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 14, gage height, 8.22 ft (2.505 m); minimum daily during period of operation, 13 ft³/s (0.37 m³/s) Mar. 4, Sept. 25, 27, 28.

Period of record: Maximum discharge, 1,580 ft³/s (44.7 m³/s) June 10, 1965, gage height, 9.06 ft (2.761 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) Dec. 17, 1964.

REMARKS.--Records fair except those for March and April, which are poor. Diversions for irrigation of about 750 acres (3.04 km²) above station.

REVISIONS (WATER YEARS).--WSP 2125: 1963, 1964(P), 1965.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						15	19	170	634	251	68	20
2						15	18	166	700	239	70	21
3						14	17	143	770	261	90	21
4						13	17	140	749	205	87	20
5						14	18	168	696	185	82	18
6						15	18	202	507	170	72	18
7						16	18	269	408	158	71	17
8						16	19	360	335	152	69	17
9						17	20	477	325	146	67	18
10						17	19	445	382	143	82	17
11						18	20	323	489	137	71	17
12						18	20	295	621	127	58	19
13						19	20	263	735	119	54	20
14						19	22	225	881	111	51	19
15						20	24	197	881	108	45	19
16						21	26	170	749	113	41	18
17						21	27	187	668	108	40	17
18						20	32	231	679	101	35	17
19						19	38	287	624	109	34	16
20						18	43	269	594	122	32	16
21						18	56	223	600	111	32	18
22						19	60	216	507	102	32	14
23						19	65	220	459	95	30	14
24						19	114	233	418	93	29	16
25						18	220	317	400	87	28	13
26						18	202	492	380	76	25	15
27						19	99	686	348	70	25	13
28						19	80	865	309	66	24	13
29					-----	19	90	993	293	65	23	14
30					-----	18	130	728	273	63	23	14
31		-----			-----	18	-----	612	-----	59	21	-----
TOTAL						549	1,571	10,572	16,414	3,952	1,511	509
MEAN						17.7	52.4	341	547	127	48.7	17.0
MAX						21	220	993	881	261	90	21
MIN						13	17	140	273	59	21	13
AC-FT						1,090	3,120	20,970	32,560	7,840	3,000	1,010

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-9	2200	6.63	564
5-29	0400	8.20	1,120
6-14	0530	8.22	1,140

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 1.0 mi (1.6 km) upstream from high-water line of Big Sandy Reservoir, 14.5 mi (23.3 km) north of Farson, and 24.5 mi (39.4 km) upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi² (834 km²).

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 (2,063 m), 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 mi (0.8 km) upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 ft (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--33 years (1914-17, 1920-24, 1926-34, 1953-71), 86.5 ft³/s (2.450 m³/s) 62,700 acre-ft/yr (77.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 30, gage height, 7.52 ft (2.292 m); minimum daily during period of operation, 8.8 ft³/s (0.25 m³/s) Sept. 9-11.

Period of record: Maximum discharge, 1,480 ft³/s (41.9 m³/s) June 9, 1972, gage height, 8.10 ft (2.469 m); no flow Jan. 27-31, 1963, may have also reached no flow in previous years during periods of ice effect.

REMARKS.--Records poor. Diversions for irrigation of about 1,000 acres (4.05 km²) above station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. Results of a discharge measurement, in cubic feet per second, made during the period when station was not in operation is given below:

Oct. 10 . . 59

Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1733: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							44	113	606	266	56	11
2							39	158	622	251	56	11
3							35	163	685	250	61	12
4							32	141	720	258	72	14
5							30	125	760	208	80	14
6							32	151	720	185	77	11
7							38	184	540	166	72	10
8							36	242	425	153	65	9.1
9							34	345	360	146	66	8.8
10							36	469	350	139	70	8.8
11							34	435	420	132	76	8.8
12							33	324	530	126	71	12
13							38	292	620	126	62	11
14							37	259	700	117	54	13
15							32	220	820	111	49	15
16							34	190	800	108	47	14
17							36	170	700	109	42	12
18							44	180	638	109	38	12
19							60	220	630	105	37	14
20							100	283	586	106	32	17
21							87	274	564	121	30	14
22							72	240	552	110	30	15
23							54	215	486	104	28	16
24							67	218	440	94	27	18
25							92	221	408	92	26	19
26							180	310	396	90	24	18
27							120	492	378	76	23	18
28							90	680	346	70	22	17
29							77	870	309	65	20	17
30							67	966	288	62	19	17
31								690		60	13	
TOTAL							1,710	9,840	16,399	4,115	1,445	407.5
MEAN							57.0	317	547	133	46.6	13.6
MAX							180	966	820	266	80	19
MIN							30	113	288	60	13	8.8
AC-FT							3,390	19,520	32,530	8,160	2,870	808

PEAK DISCHARGE (BASE, 350 FT³/S)

NOTE.--No gage-height record June 4-17.

DATE	TIME	G.HT.	DISCHARGE
5-10	1900	6.46	522
5-30	1100	7.52	1,040
a6-15	unknown	b7.30	a910

a About

b From floodmarks

GREEN RIVER BASIN

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 mi (2.6 km) upstream from diversion to Eden No. 2 Reservoir, 11 mi (18 km) northeast of Farson, and 14 mi (23 km) northeast of Eden.

DRAINAGE AREA.--170 mi² (440 km²), approximately.

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

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

AVERAGE DISCHARGE.--20 years, 18.4 ft³/s (0.521 m³/s), 13,330 acre-ft/yr (16.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 174 ft³/s (4.93 m³/s) June 18, gage height, 7.80 ft (2.377 m); maximum gage height, 9.74 ft (2.969 m) Mar. 17 (backwater from ice); minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Sept. 12, 13.

Period of record: Maximum discharge, 386 ft³/s (10.9 m³/s) June 17, 1963, gage height, 8.57 ft (2.612 m); maximum gage height, 9.74 ft (2.969 m) Mar. 17, 1974 (backwater from ice); no flow at times in most years.

REMARKS.--Records poor. Diversions above station for irrigation of about 1,220 acres (4.94 km²), of which about 150 acres (61 hm²) lies below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	11	13	5.4	6.6	7.2	24	44	120	68	9.2	1.0
2	19	12	13	5.0	6.3	7.6	19	66	105	65	8.6	1.1
3	19	11	13	4.8	6.0	8.3	16	72	97	67	7.7	.94
4	18	11	12	4.8	5.8	8.0	14	58	104	65	7.3	.82
5	18	11	10	4.9	5.6	8.9	12	44	118	55	6.9	1.0
6	18	13	8.8	5.2	5.4	11	14	44	126	48	6.6	3.6
7	18	17	9.7	5.4	5.7	13	18	52	112	42	6.4	2.3
8	18	17	10	5.5	6.1	17	17	56	87	38	6.0	1.1
9	19	15	10	5.2	6.4	20	16	61	74	39	5.9	.88
10	23	13	11	5.1	6.6	19	17	68	60	36	7.7	.76
11	25	12	11	5.3	6.7	22	16	73	49	36	7.9	.76
12	24	11	10	5.5	6.8	27	15	49	48	36	7.9	.70
13	24	12	9.7	5.7	6.9	35	20	44	62	36	6.6	.70
14	22	11	10	6.0	7.0	45	18	39	95	25	4.3	.88
15	22	11	10	6.6	7.2	43	15	39	118	19	3.3	1.4
16	21	12	9.7	6.6	7.3	47	14	36	148	17	3.4	1.7
17	20	12	9.6	6.3	7.5	61	17	30	168	15	4.0	1.4
18	18	11	9.4	6.1	7.6	80	21	29	170	16	4.3	1.4
19	18	10	9.2	6.2	7.5	70	43	29	150	17	5.5	1.7
20	17	11	9.5	6.4	7.3	60	56	35	153	19	3.8	2.3
21	17	10	9.3	6.2	7.1	52	51	37	158	19	4.3	1.4
22	16	9.6	9.0	5.9	6.9	48	34	27	144	19	3.8	1.7
23	17	9.3	8.7	5.7	6.7	45	26	30	149	17	3.3	1.4
24	17	8.9	8.3	5.9	6.5	39	51	30	120	15	3.0	2.0
25	16	8.3	7.8	5.8	6.4	36	96	26	105	14	4.8	2.8
26	15	8.8	7.7	5.8	6.5	35	138	30	98	15	3.8	2.8
27	13	9.6	7.3	6.0	6.3	37	162	46	98	14	4.0	2.7
28	11	9.9	6.9	6.3	6.9	40	76	66	97	15	5.5	2.6
29	12	11	6.6	6.4	-----	38	44	74	85	12	3.8	2.6
30	14	12	6.3	6.7	-----	32	40	79	74	11	2.2	2.6
31	13	-----	5.8	6.8	-----	38	-----	100	-----	9.9	1.3	-----
TOTAL	563	341.4	292.3	179.5	185.6	1,050.0	1,120	1,517	3,292	919.9	163.1	49.04
MEAN	18.2	11.4	9.43	5.79	6.63	33.9	37.3	48.9	110	29.7	5.26	1.63
MAX	25	17	13	6.8	7.6	80	162	100	170	68	9.2	3.6
MIN	11	8.3	5.8	4.8	5.4	7.2	12	26	48	9.9	1.3	.70
AC-FT	1,120	677	580	356	368	2,080	2,220	3,010	6,530	1,820	324	97

CAL YR 1973 TOTAL 9,472.50 MEAN 26.0 MAX 175 MIN 4.2 AC-FT 18,790
WTR YR 1974 TOTAL 9,672.84 MEAN 26.5 MAX 170 MIN .70 AC-FT 19,190

169

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 mi (0.2 km) downstream from Simpson Gulch, 8.0 mi (12.9 km) southwest of Eden, and 12.5 mi (20.1 km) downstream from Little Sandy Creek.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1968, published as Big Sandy Creek below Eden.

AVERAGE DISCHARGE.--20 years, 46.0 ft³/s (1.303 m³/s), 33,330 acre-ft/yr (41.1 hm³/yr).

Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 28, 1971, gage height, 6.47 ft (1.972 m), from floodmarks; maximum gage height, 7.22 ft (2.201 m) Mar. 20, 1956 (backwater from ice); minimum daily discharge, 0.1 ft³/s (0.003 m³/s) Feb. 24, Feb. 26 to Mar. 1, 1960.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) 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	50	52	44	24	31	26	273	34	51	84	71	74
2	48	49	45	23	31	27	185	35	52	84	80	77
3	48	45	43	24	30	28	143	61	54	92	87	78
4	48	47	41	25	29	27	88	75	61	90	93	72
5	48	52	38	26	29	28	75	72	85	94	99	66
6	48	59	35	27	31	29	66	63	117	91	99	60
7	47	67	36	28	32	30	90	61	140	93	95	59
8	47	81	37	29	33	30	185	63	134	92	90	64
9	50	82	34	30	32	34	154	66	95	87	85	67
10	59	67	32	29	31	34	169	64	72	83	83	71
11	58	58	33	28	32	39	165	41	65	78	79	74
12	57	55	33	30	32	61	115	38	64	76	77	79
13	55	54	34	31	32	141	111	36	60	77	76	86
14	52	53	33	32	32	201	98	34	58	77	81	90
15	51	45	32	33	31	253	90	37	71	84	81	80
16	51	48	32	31	31	257	78	37	145	90	83	78
17	50	47	34	30	30	588	97	38	240	90	83	77
18	50	47	35	29	29	661	149	50	312	79	80	62
19	50	47	36	28	28	508	197	53	372	80	83	57
20	51	46	36	28	28	169	191	54	360	90	84	54
21	52	43	34	27	27	88	127	53	322	80	83	52
22	51	40	33	27	26	68	95	54	308	75	88	52
23	51	39	32	26	25	53	73	36	285	73	87	52
24	52	39	31	27	24	49	73	32	253	72	86	51
25	51	39	31	28	25	52	79	35	217	74	84	50
26	50	42	32	28	25	65	75	38	176	63	83	50
27	52	43	30	27	25	91	69	37	137	61	75	49
28	53	44	29	28	26	403	61	45	116	59	73	49
29	53	43	27	29	-----	542	49	46	97	61	70	49
30	55	45	26	30	-----	223	39	47	89	65	76	48
31	56	-----	25	32	-----	225	-----	49	-----	69	76	-----
TOTAL	1,594	1,518	1,053	874	817	5,030	3,459	1,485	4,608	2,463	2,570	1,927
MEAN	51.4	50.6	34.0	28.2	29.2	162	115	47.9	154	79.5	82.9	64.2
MAX	59	82	45	33	33	661	273	75	372	94	99	90
MIN	47	39	25	23	24	26	39	32	51	59	70	48
AC-FT	3,160	3,010	2,090	1,730	1,620	9,980	6,860	2,950	9,140	4,890	5,100	3,820
CAL YR 1973	TOTAL	23,447	MEAN	64.2	MAX	293	MIN	25	AC-FT	46,510		
WTR YR 1974	TOTAL	27,399	MEAN	75.1	MAX	661	MIN	23	AC-FT	54,350		

GREEN RIVER BASIN

171

09217000 GREEN RIVER NEAR GREEN RIVER, WYO.

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

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

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

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

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

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

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

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

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

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

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

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

CAL YR 1973 TOTAL 601,530 MEAN 1,648 MAX 3,340 MIN 426 AC-FT 1,193,000
WTR YR 1974 TOTAL 758,880 MEAN 2,079 MAX 9,020 MIN 426 AC-FT 1,505,000

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 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State line, and 17 mi (27 km) south of Robertson.

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

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

GAGE.--Water-stage recorder. Datum of gage is 8,803.8 ft (2,683.40 m) above mean sea level (levels by Bureau of Reclamation). Prior to July 29, 1966, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--9 years (1937-38, 1966-74), 170 ft³/s (4.814 m³/s), 123,200 acre-ft/yr (152 hm³/yr).

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	57	55	41	43	31	31	102	1,060	317	101	41
2	85	66	55	41	42	31	32	127	1,010	300	112	43
3	82	70	55	41	42	31	32	127	1,010	277	101	41
4	78	68	55	41	41	31	34	135	923	241	89	41
5	78	64	54	41	42	31	34	177	992	229	85	41
6	75	64	54	41	42	31	34	235	773	216	82	39
7	72	65	54	41	42	31	33	317	600	207	80	39
8	71	68	54	41	41	31	34	455	513	197	77	39
9	75	75	53	42	41	30	35	688	470	194	75	39
10	82	70	53	42	40	30	33	765	450	185	73	38
11	78	64	53	42	39	29	35	648	530	176	69	39
12	76	65	52	42	38	28	34	648	697	164	67	43
13	79	65	52	42	37	27	40	681	822	156	65	43
14	89	64	52	41	36	27	55	553	917	150	62	42
15	89	63	52	41	35	26	52	540	923	148	59	41
16	82	62	51	42	35	28	48	568	873	164	57	39
17	74	60	51	41	35	30	52	616	830	198	55	38
18	70	66	51	42	34	30	53	654	781	232	53	38
19	68	58	51	44	34	29	40	699	761	252	51	37
20	67	58	50	44	34	29	38	516	781	238	50	36
21	63	58	49	43	34	28	43	395	704	182	50	36
22	62	58	48	40	33	28	48	358	625	155	50	36
23	61	57	47	40	33	28	48	380	578	172	48	36
24	64	57	47	40	33	28	58	465	546	160	47	35
25	66	57	47	40	32	28	72	647	516	142	47	35
26	59	57	45	40	32	28	84	858	490	126	45	35
27	62	56	44	41	32	29	75	1,320	440	121	45	35
28	63	56	43	41	32	29	72	1,670	393	120	44	35
29	57	56	42	42	-----	29	77	1,670	364	110	44	38
30	65	56	41	42	-----	29	86	1,330	342	104	42	36
31	64	-----	41	42	-----	31	-----	1,110	-----	102	42	-----
TOTAL	2,248	1,860	1,551	1,284	1,034	906	1,442	19,455	20,714	5,735	1,967	1,154
MEAN	72.5	62.0	50.0	41.4	36.9	29.2	48.1	628	690	185	63.5	38.5
MAX	92	75	55	44	43	31	86	1,670	1,060	317	112	43
MIN	57	56	41	40	32	26	31	102	342	102	42	35
AC-FT	4,460	3,690	3,080	2,550	2,050	1,800	2,860	38,590	41,090	11,380	3,900	2,290

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

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0100	3.94	1,980
6-13	2400	3.02	1,070

GREEN RIVER BASIN

173

09218500 BLACKS FORK NEAR MILLBURNE, WYO.

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

DRAINAGE AREA.--152 mi² (394 km²).

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

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

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	80	58	45	39	33	32	33	1,210	660	191	182
2	137	71	58	45	38	33	32	33	1,120	510	194	182
3	115	71	58	44	38	34	32	33	1,150	360	191	182
4	135	71	58	44	38	34	32	33	1,050	287	191	180
5	140	71	58	44	38	34	32	33	1,060	287	188	182
6	150	71	58	43	38	34	32	34	995	291	174	180
7	150	60	58	43	38	34	32	35	750	291	168	180
8	148	52	58	43	38	34	32	35	620	287	168	180
9	148	53	58	43	38	34	32	35	517	300	166	177
10	148	53	58	43	38	33	32	37	486	313	166	152
11	66	53	58	43	37	33	32	37	504	326	166	135
12	32	54	58	43	37	33	32	37	612	326	166	138
13	52	54	58	43	37	33	32	38	777	326	127	135
14	107	54	58	43	37	33	32	38	918	326	89	135
15	107	54	58	43	36	33	32	38	930	308	91	135
16	107	56	58	42	36	33	32	165	930	336	91	135
17	107	56	58	42	36	33	32	558	920	380	91	120
18	107	54	51	42	36	33	33	768	870	380	91	104
19	107	56	45	42	36	33	33	910	822	380	91	104
20	107	56	45	42	35	33	33	804	822	380	149	105
21	107	56	45	42	35	33	34	678	786	390	207	109
22	107	56	45	42	35	33	34	705	714	390	200	107
23	107	57	45	42	35	33	34	696	628	326	188	109
24	107	57	45	42	35	33	33	768	580	267	188	92
25	100	57	45	42	34	33	33	910	596	267	188	81
26	94	58	45	41	34	33	33	890	604	267	188	81
27	94	53	45	41	34	32	33	1,040	620	271	182	81
28	94	58	45	41	34	32	33	1,260	669	271	180	81
29	94	58	45	41	-----	32	33	1,430	750	275	180	81
30	94	58	45	41	-----	32	33	1,410	750	244	180	81
31	92	-----	45	41	-----	32	-----	1,270	-----	213	182	-----
TOTAL	3,377	1,773	1,622	1,318	1,020	1,025	976	14,791	23,760	10,235	5,012	3,926
MEAN	109	59.1	52.3	42.5	36.4	33.1	32.5	477	792	330	162	131
MAX	150	80	58	45	39	34	34	1,430	1,210	660	207	182
MIN	32	52	45	41	34	32	32	33	486	213	89	81
AC-FT	6,700	3,520	3,220	2,610	2,020	2,030	1,940	29,340	47,130	20,300	9,940	7,790

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

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

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.11S W., Uinta County, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

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

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

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

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

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

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

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

REVISIONS.--WSP 979: Drainage area.

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

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

PEAK DISCHARGE (BASE, 300 FT³/S)

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

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WYO.

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

DRAINAGE AREA.--37.2 mi² (96.3 km²).

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

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

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

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

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

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

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

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

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

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

PEAK DISCHARGE (BASE, 280 FT³/S)

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

GREEN RIVER BASIN

09222000 BLACKS FORK NEAR LYMAN, WYO.

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¼NW¼SW¼ sec.15, T.17 N., R.113 W., Uinta County, on left bank 200 ft (61 m) downstream from bridge on old U.S. Highway 30S, 8.5 mi (13.7 km) downstream from Smiths Fork, and 11 mi (18 km) northeast of Lyman.

DRAINAGE AREA.--821 mi² (2,126 km²).

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map. Oct. 21, 1937, to Dec. 31, 1957, at site 300 ft (91 m) downstream, at datum 1.51 ft (0.460 m) higher.

AVERAGE DISCHARGE.--32 years, 152 ft³/s (4.305 m³/s), 110,100 acre-ft/yr (136 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft³/s (50.1 m³/s) May 30, gage height, 8.33 ft (2.539 m); minimum daily, 13 ft³/s (0.37 m³/s) Sept. 7.

Period of record: Maximum discharge, 7,960 ft³/s (225 m³/s) June 11, 1965, gage height, 12.68 ft (3.865 m); no flow Aug. 8, 15-22, 1940, Dec. 26-28, 1962.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, several smaller reservoirs, and diversions for irrigation of about 62,200 acres (252 km²) 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(N).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	105	120	46	100	255	186	270	1,190	185	58	15
2	78	100	118	43	105	285	164	346	1,000	185	49	14
3	71	98	113	42	110	320	147	399	892	192	48	14
4	74	96	109	43	108	320	136	402	860	164	45	17
5	94	98	108	44	104	300	154	404	695	122	42	18
6	114	164	110	46	100	260	211	486	958	101	42	14
7	108	190	115	48	99	320	219	586	1,050	84	44	13
8	110	180	115	47	101	390	180	750	815	70	43	14
9	126	130	111	49	103	560	197	969	720	63	41	14
10	164	114	107	50	108	510	263	1,210	526	59	39	14
11	198	106	103	53	104	480	229	1,270	379	56	39	14
12	159	106	98	57	102	520	291	949	305	51	36	19
13	94	112	95	61	101	650	234	898	290	50	37	19
14	87	110	98	67	99	590	250	849	285	52	35	16
15	114	101	100	76	98	550	307	690	361	62	33	19
16	118	110	98	86	97	800	289	615	530	85	27	23
17	114	118	95	93	95	660	280	656	700	117	26	26
18	110	115	94	100	94	534	328	788	675	141	24	27
19	108	110	92	108	93	361	327	940	606	130	22	26
20	101	100	90	104	91	320	362	1,080	552	148	20	25
21	92	83	92	100	88	250	488	801	403	169	19	22
22	92	54	90	97	85	200	504	549	352	150	19	26
23	96	56	85	95	83	155	457	450	312	123	20	29
24	92	62	82	96	83	122	408	367	248	114	17	27
25	96	75	77	97	86	123	408	340	195	108	17	26
26	99	85	73	96	94	147	458	490	154	84	17	25
27	92	94	69	95	135	169	418	650	134	74	17	19
28	89	100	63	96	195	181	322	942	130	72	18	18
29	90	110	58	100	-----	160	270	1,490	128	67	18	17
30	97	115	55	102	-----	215	260	1,690	150	65	16	16
31	101	-----	51	100	-----	248	-----	1,570	-----	65	15	-----
TOTAL	3,267	3,197	2,884	2,337	2,861	10,955	8,747	23,896	15,595	3,208	943	586
MEAN	105	107	93.0	75.4	102	353	292	771	520	103	30.4	19.5
MAX	198	190	120	108	195	800	504	1,690	1,190	192	58	29
MIN	71	54	51	42	83	122	136	270	128	50	15	13
AC-FT	6,480	6,340	5,720	4,640	5,670	21,730	17,350	47,400	30,930	6,360	1,870	1,160

CAL YR 1973 TOTAL 79,838 MEAN 219 MAX 2,320 MIN 34 AC-FT 158,400
WTR YR 1974 TOTAL 78,476 MEAN 215 MAX 1,690 MIN 13 AC-FT 155,700

GREEN RIVER BASIN

177

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 mi (3.2 km) downstream from Pole Creek, 4.6 mi (7.4 km) upstream from Taylor Creek, and 22 mi (35.4 km) northwest of Frontier.

DRAINAGE AREA.--128 mi² (332 km²).

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 (2,272 m), from topographic map. Prior to Sept. 2, 1971, at site 120 ft (37 m) upstream at present datum.

AVERAGE DISCHARGE.--22 years, 101 ft³/s (2.860 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,010 ft³/s (28.6 m³/s) May 29, gage height, 7.22 ft (2.201 m); minimum daily, 13 ft³/s (0.37 m³/s) Jan. 2.

Period of record: Maximum discharge, 1,520 ft³/s (43.0 m³/s) May 28, 1971, gage height, 8.10 ft (2.469 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Mar. 20, 1965.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	22	14	21	21	29	430	736	177	37	18
2	18	17	21	13	20	20	29	520	710	177	37	20
3	19	16	21	14	20	19	32	489	724	175	47	20
4	19	19	20	15	19	18	35	457	744	153	44	19
5	19	23	19	16	18	18	35	576	804	139	40	19
6	19	28	20	17	17	20	33	682	812	129	39	19
7	19	30	20	16	16	21	32	768	692	123	37	19
8	18	39	19	16	16	22	34	908	518	117	35	19
9	18	38	18	15	17	22	36	904	517	111	37	18
10	18	30	18	15	17	21	34	888	460	99	32	18
11	18	31	19	16	16	22	35	646	460	91	30	18
12	18	32	20	17	17	21	36	608	496	88	32	18
13	18	31	20	18	18	21	38	562	545	84	31	19
14	18	26	19	19	18	22	40	486	590	77	31	20
15	18	25	19	20	17	23	47	415	618	75	31	21
16	18	27	20	20	17	24	56	370	615	79	25	21
17	18	26	20	19	16	26	52	385	566	77	23	21
18	18	25	19	18	16	25	61	463	520	71	24	20
19	18	24	19	18	17	23	59	503	486	71	25	19
20	18	23	19	17	17	22	63	552	442	71	25	19
21	18	23	18	17	16	21	78	469	406	72	24	19
22	18	22	19	18	16	20	99	427	370	64	22	19
23	18	22	18	19	15	21	120	427	341	57	21	19
24	18	21	18	19	16	20	207	433	307	55	20	19
25	18	21	18	18	17	21	291	500	285	50	19	19
26	17	21	17	17	18	23	397	598	263	46	19	19
27	18	20	17	17	19	25	364	760	243	43	18	18
28	18	19	16	17	20	27	296	900	223	43	18	18
29	18	20	16	18	-----	28	277	972	204	40	18	18
30	18	21	15	19	-----	27	330	920	190	40	18	19
31	18	-----	15	20	-----	28	-----	820	-----	39	18	-----
TOTAL	563	737	579	532	487	692	3,285	18,838	14,987	2,733	877	572
MEAN	18.2	24.6	18.7	17.2	17.4	22.3	110	608	500	88.2	28.3	19.1
MAX	19	39	22	20	21	28	397	972	812	177	47	21
MIN	17	16	15	13	15	18	29	370	190	39	18	18
AC-FT	1,120	1,460	1,150	1,060	966	1,370	6,520	37,370	29,730	5,420	1,740	1,130

CAL YR 1973 TOTAL 28,676 MEAN 78.6 MAX 816 MIN 13 AC-FT 56,880
WTR YR 1974 TOTAL 44,882 MEAN 123 MAX 972 MIN 13 AC-FT 89,020

PEAK DISCHARGE (BASE, 350 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-26	1830	5.77	448	5-29	1300	7.22	1,010
5-9	0300	7.10	960	6-15	1600	6.25	632

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WYO.

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼NE¼NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 30, 4.2 mi (6.8 km) upstream from Meadow Springs Wash, and 8.5 mi (13.7 km) east of Little America.

DRAINAGE AREA.--3,100 mi² (8,030 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft (1,867.711 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 374 ft³/s (10.59 m³/s), 271,000 acre-ft/yr (334 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,100 ft³/s (87.8 m³/s) May 11, gage height, 7.35 ft (2.240 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 6-12.

Period of record: Maximum discharge, 9,980 ft³/s (283 m³/s) June 13, 1965, gage height, 10.90 ft (3.322 m); no flow Sept. 20-26, 1962.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft (52.3 hm³), numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres (308 km²) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	150	174	85	128	290	395	1,200	2,230	300	126	23
2	154	150	174	76	132	350	420	1,240	1,990	318	123	23
3	141	150	170	69	134	390	355	1,360	1,900	328	118	22
4	126	140	167	63	132	440	346	1,540	1,870	314	105	23
5	118	180	160	65	130	530	300	1,510	1,690	296	98	21
6	120	230	155	69	129	520	300	1,560	1,530	256	98	18
7	141	270	163	73	127	500	328	1,760	1,870	232	98	18
8	150	300	170	75	125	475	350	1,910	1,860	210	93	18
9	150	270	170	79	127	540	323	2,180	1,720	196	88	18
10	168	236	165	80	130	650	318	2,540	1,610	192	82	18
11	192	206	158	83	130	890	390	2,930	1,450	185	80	18
12	220	192	152	89	125	830	415	2,500	1,110	168	75	18
13	228	188	145	100	122	900	445	2,190	899	150	68	19
14	185	188	140	115	120	1,100	456	2,200	854	135	64	21
15	154	182	147	124	118	1,200	415	2,070	836	126	57	23
16	160	178	150	130	115	1,100	466	1,890	842	126	54	26
17	174	171	147	135	113	1,130	440	1,730	981	132	49	27
18	174	168	141	142	112	946	440	1,510	1,130	144	40	26
19	168	158	139	140	112	824	488	1,540	1,140	157	35	28
20	164	150	137	137	110	710	584	1,710	1,070	196	35	31
21	160	138	142	130	108	572	638	1,680	988	228	33	30
22	154	130	138	126	102	500	728	1,380	848	224	33	30
23	150	120	130	120	98	395	770	1,160	758	224	33	30
24	147	110	122	115	97	400	860	1,060	674	199	40	30
25	147	105	112	110	98	365	886	967	590	185	39	33
26	147	100	110	118	109	314	953	892	500	174	36	34
27	147	110	108	114	162	310	1,100	1,020	440	160	32	30
28	144	124	100	110	200	332	1,240	1,180	385	141	32	28
29	141	140	97	115	-----	355	1,190	1,690	336	132	28	28
30	138	160	93	118	-----	375	1,170	2,140	310	129	26	29
31	144	-----	91	122	-----	346	-----	2,360	-----	129	24	-----
TOTAL	4,874	5,094	4,367	3,227	3,445	18,579	17,509	52,599	34,411	6,086	1,942	741
MEAN	157	170	141	104	123	599	584	1,697	1,147	196	62.6	24.7
MAX	228	300	174	142	200	1,200	1,240	2,930	2,230	328	126	34
MIN	118	100	91	63	97	290	300	892	310	126	24	18
AC-FT	9,670	10,100	8,660	6,400	6,830	36,850	34,730	104,300	68,250	12,070	3,850	1,470

CAL YR 1973 TOTAL 152,159 MEAN 417 MAX 4,010 MIN 65 AC-FT 301,800
WTR YR 1974 TOTAL 152,874 MEAN 419 MAX 2,930 MIN 18 AC-FT 303,200

GREEN RIVER BASIN

179

09228500 BURNT FORK NEAR BURNTFORK, WYO.

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

DRAINAGE AREA.--52.8 mi² (136.8 km²).

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

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

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

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

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

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

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

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

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

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

GREEN RIVER BASIN

09229500 HENRYS FORK NEAR MANILA, UTAH

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

DRAINAGE AREA.--520 mi² (1,350 km²), approximately.

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

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

AVERAGE DISCHARGE.--46 years, 83.0 ft³/s (2.351 m³/s), 60,130 acre-ft/yr (74.1 hm³/yr).

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.
1	108	95	65	42	54	58	89	81	328	8.8	4.9	3.3
2	103	95	60	41	53	70	91	85	256	7.6	4.4	3.0
3	101	90	58	43	52	77	79	97	235	6.5	4.9	3.0
4	101	85	57	46	52	72	83	99	215	5.6	3.3	3.3
5	101	85	56	49	50	70	87	93	180	4.8	3.0	3.0
6	103	100	57	52	49	79	99	115	200	4.2	3.0	3.6
7	99	130	59	50	50	86	91	120	188	3.5	2.8	3.3
8	97	125	60	51	51	93	83	139	168	3.1	2.8	3.0
9	101	118	58	53	53	100	81	188	148	2.7	2.8	4.4
10	118	108	59	55	55	105	89	299	110	2.3	2.8	4.0
11	122	105	57	57	56	122	79	322	91	2.0	2.8	2.2
12	118	108	56	58	55	136	89	256	83	2.0	3.0	3.0
13	112	105	55	60	53	125	71	310	73	1.8	3.3	3.3
14	110	103	57	61	55	120	81	322	75	1.8	3.3	4.4
15	108	85	57	63	57	142	101	268	85	2.0	3.3	7.9
16	108	85	56	65	58	142	112	235	91	39	3.3	4.0
17	105	90	54	65	59	118	95	235	101	25	3.3	3.0
18	103	90	52	64	55	120	97	262	93	18	3.0	3.0
19	103	85	49	63	54	79	93	250	79	23	3.0	3.6
20	103	80	48	60	52	61	97	245	65	51	2.8	5.4
21	101	73	49	57	49	47	93	184	54	65	4.0	5.9
22	101	67	49	54	47	45	120	151	47	44	4.0	5.4
23	99	68	48	56	45	56	122	157	47	26	2.8	6.9
24	95	65	47	57	44	54	99	180	35	25	2.8	6.9
25	73	62	46	55	43	56	95	164	20	30	2.8	3.6
26	61	60	48	53	44	71	99	176	18	22	2.8	3.6
27	95	61	50	51	46	73	101	310	15	13	2.8	3.3
28	93	62	50	53	50	75	77	586	13	4.9	2.8	3.6
29	97	64	48	55	-----	67	83	688	12	5.4	2.8	8.4
30	97	65	46	55	-----	81	83	682	10	12	2.8	11
31	93	-----	44	55	-----	101	-----	490	-----	14	3.0	-----
TOTAL	3,129	2,614	1,655	1,699	1,441	2,701	2,759	7,788	3,135	476.0	99.2	132.3
MEAN	101	87.1	53.4	54.8	51.5	87.1	92.0	251	105	15.4	3.20	4.41
MAX	122	130	65	65	59	142	122	688	328	65	4.9	11
MIN	61	60	44	41	43	45	71	81	10	1.8	2.8	2.2
AC-FT	6,210	5,180	3,280	3,370	2,860	5,360	5,470	15,450	6,220	944	197	262

CAL YR 1973 TOTAL 60,636.0 MEAN 166 MAX 1,130 MIN 35 AC-FT 120,300
WTR YR 1974 TOTAL 27,628.5 MEAN 75.7 MAX 688 MIN 1.8 AC-FT 54,900

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 mi (2.9 km) southwest of Dutch John, and 4 mi (6.4 km) northeast of Greendale.

DRAINAGE AREA.--15,100 mi² (39,100 km²), approximately.

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

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

EXTREMES.--Current year: Maximum contents observed, 3,751,000 acre-ft (4,620 hm³) Aug. 1, elevation, 6,040.04 ft (1,841.004 m); minimum observed, 2,873,000 acre-ft (3,540 hm³) Jan. 16, elevation, 6,017.03 ft (1,833.991 m).

Period of record: Maximum contents observed, 3,751,000 acre-ft (4,620 hm³) Aug. 1, 1974, elevation, 6,040.04 ft (1,841.004 m); minimum, 582,900 acre-ft (719 hm³), Apr. 26, 1965.

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

COOPERATION.--Records furnished by Bureau of Reclamation.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,178	3,107	3,029	2,932	2,900	2,970	3,089	3,183	3,352	3,637	3,751	3,685
2	3,176	3,103	3,028	2,925	2,903	2,973	3,093	3,189	3,364	3,646	3,749	3,683
3	3,172	3,101	3,024	2,918	2,905	2,977	3,097	3,195	3,376	3,651	3,746	3,681
4	3,169	3,099	3,020	2,913	2,908	2,980	3,099	3,204	3,384	3,659	3,742	3,679
5	3,168	3,097	3,014	2,905	2,910	2,983	3,100	3,212	3,395	3,667	3,739	3,675
6	3,167	3,096	3,010	2,899	2,913	2,986	3,104	3,219	3,406	3,674	3,737	3,669
7	3,167	3,093	3,006	2,893	2,916	2,989	3,106	3,225	3,418	3,681	3,735	3,663
8	3,166	3,091	3,002	2,888	2,919	2,994	3,107	3,230	3,428	3,686	3,734	3,658
9	3,165	3,089	2,999	2,883	2,921	2,999	3,110	3,233	3,440	3,689	3,734	3,654
10	3,163	3,087	2,995	2,881	2,923	3,005	3,113	3,239	3,451	3,691	3,732	3,647
11	3,160	3,087	2,992	2,878	2,925	3,010	3,115	3,247	3,460	3,693	3,730	3,641
12	3,157	3,085	2,989	2,877	2,928	3,015	3,115	3,255	3,466	3,695	3,726	3,635
13	3,155	3,083	2,986	2,876	2,931	3,020	3,117	3,264	3,469	3,698	3,726	3,629
14	3,155	3,079	2,983	2,874	2,934	3,025	3,120	3,275	3,471	3,701	3,725	3,624
15	3,152	3,077	2,978	2,874	2,936	3,030	3,121	3,286	3,477	3,703	3,723	3,620
16	3,150	3,074	2,975	2,873	2,938	3,036	3,124	3,291	3,483	3,706	3,721	3,615
17	3,148	3,072	2,971	2,875	2,941	3,040	3,126	3,295	3,488	3,710	3,719	3,611
18	3,144	3,072	2,967	2,876	2,944	3,046	3,128	3,300	3,492	3,712	3,718	3,607
19	3,140	3,070	2,965	2,876	2,947	3,051	3,129	3,305	3,498	3,714	3,718	3,603
20	3,137	3,067	2,964	2,877	2,949	3,055	3,133	3,311	3,508	3,718	3,714	3,602
21	3,135	3,063	2,961	2,878	2,952	3,059	3,139	3,316	3,518	3,721	3,711	3,601
22	3,133	3,061	2,958	2,879	2,955	3,062	3,143	3,320	3,528	3,723	3,708	3,600
23	3,130	3,057	2,958	2,878	2,957	3,065	3,147	3,324	3,543	3,726	3,705	3,597
24	3,126	3,055	2,957	2,879	2,959	3,067	3,151	3,328	3,536	3,729	3,702	3,597
25	3,124	3,051	2,956	2,882	2,961	3,069	3,154	3,330	3,570	3,733	3,701	3,596
26	3,121	3,046	2,952	2,885	2,963	3,071	3,158	3,330	3,584	3,735	3,698	3,595
27	3,118	3,039	2,948	2,888	2,966	3,073	3,163	3,329	3,597	3,737	3,695	3,594
28	3,117	3,035	2,945	2,891	2,968	3,076	3,168	3,329	3,607	3,740	3,692	3,592
29	3,117	3,033	2,943	2,893	-----	3,080	3,173	3,330	3,617	3,742	3,691	3,588
30	3,115	3,030	2,943	2,896	-----	3,084	3,178	3,335	3,628	3,744	3,689	3,583
31	3,110	-----	2,938	2,898	-----	3,087	-----	3,342	-----	3,747	3,687	-----
MAX	3,178	3,107	3,029	2,932	2,968	3,087	3,178	3,342	3,628	3,747	3,751	3,685
MIN	3,110	3,030	2,938	2,873	2,900	2,970	3,089	3,183	3,352	3,637	3,687	3,583

(†)	6,023.72	6,021.49	6,018.89	6,017.73	6,019.74	6,023.08	6,025.56	6,029.90	6,037.09	6,039.96	6,038.51	6,035.97
(‡)	-70	-80	-92	-40	+70	+119	+91	+164	+286	+119	-60	-104

CAL YR 1973..... ‡ -149

WTR YR 1974..... ‡ +403

† Elevation, in feet, at end of month.

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

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UTAH

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

DRAINAGE AREA.--15,100 mi² (39,100 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.198 m) above mean sea level. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 2,030 ft³/s (57.49 m³/s), 1,471,000 acre-ft/yr (1,810 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,600 ft³/s (133 m³/s) Jan. 9, gage height, 6.43 ft (1.960 m); maximum gage height, 6.50 ft (1.978 m) Nov. 1; minimum discharge, 410 ft³/s (20.3 m³/s) Oct. 3.

Period of record: Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957, gage height, 10.60 ft (3.231 m), site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963 (regulated).

REMARKS.--Records good. Transbasin diversions and diversions for irrigation above station. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream since Nov. 1, 1962. (See sta 09234400). Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,650	3,390	2,640	3,950	810	798	1,070	992	2,240	2,270	1,570	1,900
2	2,640	3,000	1,730	4,310	811	799	827	863	2,020	2,530	2,980	1,810
3	2,880	2,580	3,010	4,390	813	800	827	863	2,300	1,550	2,600	1,660
4	3,090	1,770	2,920	4,420	807	905	838	869	2,400	844	3,150	2,060
5	2,090	2,540	3,120	4,420	819	789	1,080	875	1,960	1,620	3,180	2,700
6	1,210	2,570	3,140	4,430	873	789	881	2,200	2,780	1,020	2,670	3,470
7	815	2,060	3,110	4,410	824	788	877	1,880	2,750	1,170	2,160	3,180
8	2,330	2,440	3,070	4,330	807	788	1,100	2,960	2,870	2,430	2,010	3,110
9	2,830	2,810	2,860	4,040	808	789	868	4,130	1,830	1,630	2,160	3,360
10	2,920	3,050	3,020	1,950	809	789	869	4,300	3,080	1,830	2,200	3,960
11	2,990	1,350	2,940	2,310	810	789	1,370	3,180	2,340	965	2,060	3,870
12	2,660	2,520	2,320	1,080	805	791	2,760	3,120	2,960	1,130	2,120	3,380
13	2,080	2,120	2,470	1,090	808	808	851	3,020	2,740	963	1,780	3,350
14	1,100	2,680	2,650	1,720	804	853	850	1,390	2,690	837	2,420	3,040
15	2,740	2,500	3,400	1,180	804	844	861	2,140	1,120	1,300	2,220	2,570
16	2,520	3,140	2,440	1,180	800	829	858	4,400	824	1,400	2,290	3,090
17	2,390	2,600	3,270	861	800	829	902	4,430	2,500	1,600	2,070	2,900
18	3,330	939	3,290	1,040	801	830	858	4,340	2,370	1,770	1,410	2,640
19	3,580	2,700	1,960	878	800	835	848	4,330	2,170	1,540	2,490	2,260
20	2,320	3,340	1,780	914	802	836	860	4,220	2,590	1,060	2,080	1,220
21	1,900	3,370	2,600	1,280	803	836	861	3,860	2,310	1,110	2,410	1,030
22	1,920	1,670	2,720	863	803	843	863	3,290	1,790	1,600	2,210	1,060
23	2,930	2,650	1,430	2,140	798	845	863	3,840	1,020	2,090	2,510	2,230
24	2,880	2,800	1,450	876	800	846	851	3,380	2,180	1,270	2,430	1,110
25	2,370	3,030	1,160	875	801	846	1,850	3,160	2,190	1,410	1,760	1,070
26	2,640	3,090	2,790	875	800	850	1,110	3,070	2,490	1,410	2,460	1,160
27	2,560	4,060	2,850	876	797	847	847	3,200	2,480	1,110	2,250	1,120
28	1,530	2,750	2,150	919	797	844	849	3,410	2,340	1,170	2,120	1,540
29	2,450	1,910	2,070	828	-----	850	854	3,520	2,270	1,050	1,300	2,400
30	2,170	2,360	1,300	824	-----	853	1,090	3,430	839	1,150	1,920	2,820
31	2,940	-----	2,850	852	-----	853	-----	3,270	-----	1,050	2,000	-----
TOTAL	74,455	77,789	78,510	64,111	22,614	25,591	30,293	91,933	66,443	43,879	68,990	71,070
MEAN	2,402	2,593	2,533	2,068	808	826	1,010	2,966	2,215	1,415	2,225	2,369
MAX	3,580	4,060	3,400	4,430	873	905	2,760	4,430	3,080	2,530	3,180	3,960
MIN	815	939	1,160	824	797	788	827	863	824	837	1,300	1,030
AC-FT	147,700	154,300	155,700	127,200	44,850	50,760	60,090	182,300	131,800	87,030	136,800	141,000

CAL YR 1973 TOTAL 973,685 MEAN 2,668 MAX 4,360 MIN 800 AC-FT 1,931,000
WTR YR 1974 TOTAL 715,678 MEAN 1,961 MAX 4,430 MIN 788 AC-FT 1,420,000

GREEN RIVER BASIN

183

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 mi (0.3 km) downstream from Spring Creek and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

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 (2,082.089 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 226 ft³/s (6.400 m³/s), 163,700 acre-ft/yr (202 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 14 ft³/s (0.40 m³/s) Sept. 7.

Period of record: Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km²) above station.

REVISIONS (WATER YEARS).--WSP 1733: 1960.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	30	32	29	36	49	67	2,900	1,800	380	55	16
2	28	30	33	28	35	45	68	3,100	1,750	325	51	15
3	27	28	34	28	33	43	61	3,320	1,680	288	50	16
4	26	26	34	28	32	42	57	3,160	1,640	244	50	17
5	26	26	33	30	30	42	54	2,810	2,050	220	49	17
6	27	27	32	31	28	48	58	2,630	2,110	204	40	16
7	27	29	34	32	29	50	55	2,400	1,760	192	40	14
8	25	30	35	32	29	52	51	2,380	1,490	189	45	15
9	25	51	34	32	30	50	66	2,420	1,410	171	49	16
10	28	48	33	31	32	50	180	2,420	1,270	154	62	16
11	30	44	36	31	33	52	230	1,970	1,180	138	51	15
12	30	50	36	31	35	56	150	1,940	1,200	122	41	19
13	30	64	36	32	36	60	90	1,970	1,310	108	39	22
14	31	58	36	32	37	61	76	1,510	1,420	96	38	22
15	31	39	36	33	37	57	84	1,480	1,510	94	31	21
16	30	27	35	34	36	53	130	1,650	1,550	146	30	20
17	29	28	34	32	35	57	220	1,750	1,500	151	30	20
18	28	28	32	31	34	68	450	1,900	1,410	114	33	20
19	28	29	30	31	34	64	800	2,120	1,310	107	25	21
20	27	29	30	30	34	62	840	1,920	1,250	116	25	21
21	27	29	31	30	34	57	760	1,520	1,040	120	24	22
22	26	28	32	30	35	58	620	1,380	1,010	116	22	21
23	25	27	32	30	36	55	800	1,380	925	116	23	22
24	25	27	31	30	36	55	1,300	1,410	855	105	19	21
25	24	27	30	30	36	55	3,300	1,520	750	90	20	21
26	24	27	31	31	37	61	3,400	1,670	680	76	20	22
27	21	28	32	31	39	65	3,000	1,890	608	68	19	22
28	22	28	33	32	44	71	2,800	2,100	530	62	17	21
29	25	29	33	33	-----	69	2,700	2,150	475	79	17	22
30	28	30	32	34	-----	68	2,800	2,110	420	75	17	22
31	29	-----	30	35	-----	74	-----	1,920	-----	65	17	-----
TOTAL	840	1,001	1,022	964	962	1,749	25,267	64,800	37,893	4,531	1,049	575
MEAN	27.1	33.4	33.0	31.1	34.4	56.4	842	2,090	1,263	146	33.8	19.2
MAX	31	64	36	35	44	74	3,400	3,320	2,110	380	62	22
MIN	21	26	30	28	28	42	51	1,380	420	62	17	14
AC-FT	1,670	1,990	2,030	1,910	1,910	3,470	50,120	128,500	75,160	8,990	2,080	1,140

CAL YR 1973 TOTAL 85,726 MEAN 235 MAX 1,800 MIN 21 AC-FT 170,000
WTR YR 1974 TOTAL 140,653 MEAN 385 MAX 3,400 MIN 14 AC-FT 279,000

NOTE.--No gage-height record Jan. 1 to Feb. 24, Apr. 9 to May 1.

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 (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

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 (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--43 years (1931-74), 73.5 ft³/s (2.082 m³/s), 53,250 acre-ft/yr (65.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, gage height, 10.75 ft (3.277 m), from peak indicator; minimum daily, 4.5 ft³/s (0.13 m³/s) Sept. 1.

Period of record: Maximum discharge observed, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions for irrigation of about 500 acres (2.02 km²) above station.

REVISIONS (WATER YEARS).--WSP 618: 1910-11. WSP 764: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	17	22	17	12	19	130	27	800	386	65	11	4.5
2	16	17	17	11	18	135	26	760	363	58	11	5.1
3	15	15	17	11	17	130	24	700	348	50	12	5.1
4	15	20	16	12	16	120	24	900	330	42	12	5.5
5	15	32	15	13	15	100	23	420	438	33	11	6.1
6	15	36	15	13	15	82	24	800	700	29	11	6.2
7	15	32	15	13	16	90	24	850	488	28	10	5.8
8	15	35	15	13	17	70	25	900	444	31	11	5.7
9	15	37	15	14	18	52	25	960	386	29	13	5.8
10	18	34	16	15	18	50	25	1,020	414	24	15	5.6
11	21	32	17	16	18	50	25	804	328	21	13	5.4
12	20	32	18	17	19	40	25	754	304	17	11	9.1
13	20	39	19	18	19	30	27	782	322	16	10	11
14	20	38	20	19	19	25	29	520	334	17	9.5	11
15	21	23	21	20	19	25	30	448	360	21	8.6	11
16	20	31	22	20	19	28	37	564	356	21	8.1	12
17	19	28	23	20	19	30	54	592	335	23	7.9	11
18	18	25	22	20	19	33	68	558	293	23	7.6	10
19	18	28	21	20	18	30	68	682	268	20	6.7	9.4
20	17	21	19	20	18	20	70	622	245	29	6.1	9.1
21	17	20	18	20	17	25	130	381	222	38	6.1	9.1
22	17	19	17	19	17	28	200	303	183	27	6.0	9.3
23	17	18	17	19	16	26	300	332	164	29	6.1	9.3
24	17	17	17	19	17	23	500	368	149	32	6.1	9.4
25	17	17	17	20	18	22	620	408	135	27	6.1	9.2
26	18	17	17	20	19	20	750	452	121	20	5.9	9.5
27	15	17	16	20	23	21	660	552	107	16	4.9	9.7
28	19	17	15	20	50	22	500	615	97	14	4.9	11
29	19	17	14	20	-----	24	600	590	81	13	4.9	11
30	18	17	13	20	-----	25	700	552	71	14	4.8	11
31	19	-----	12	20	-----	26	-----	438	-----	13	4.8	-----
TOTAL	543	753	533	534	533	1,532	5,643	19,428	8,773	840	266.1	252.9
MEAN	17.5	25.1	17.2	17.2	19.0	49.4	188	640	292	27.1	8.58	8.43
MAX	21	39	23	20	50	135	750	1,020	700	65	15	12
MIN	15	15	12	11	15	20	23	303	71	13	4.8	4.5
AC-FT	1,080	1,490	1,050	1,060	1,060	3,040	11,190	39,330	17,400	1,570	528	502

CAL YR 1973 TOTAL 35,540.6 MEAN 97.4 MAX 872 MIN 8.3 AC-FT 70,490
 WTR YR 1974 TOTAL 40,031.0 MEAN 110 MAX 1,020 MIN 4.5 AC-FT 79,400

PEAK DISCHARGE (BASE, 430 FT³/S)

NOTE.--No gage-height record Jan. 8 to May 9.

DATE	TIME	G.H.T.	DISCHARGE
5- 8	2400	10.75	1,860
5-28	0300	7.47	722
6- 6	0400	8.29	940

GREEN RIVER BASIN
09257000 LITTLE SNAKE RIVER NEAR DIXON, WYO.

185

LOCATION.--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 (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

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 (1,929,756 m) above mean sea level. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

AVERAGE DISCHARGE.--46 years (1910-23, 1938-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,360 ft³/s (208 m³/s) May 10, gage height, 12.08 ft (3.682 m); minimum daily during period of operation, 0.32 ft³/s (0.009 m³/s) Sept. 1.

Period of record: Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; minimum daily discharge, 0.2 ft³/s (0.006 m³/s) Sept. 26, 1956.

REMARKS.--Records poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation are given below:

Oct. 2 . . 22
Mar. 20 . . 269

Water-quality records for the current year are published in Part 2 of this report.

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

REVISIONS (WATER YEARS).--WSP 1243: 1920(N).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							310	3,200	3,120	850	40	.32
2							300	4,210	3,000	750	40	.93
3							270	3,260	2,900	650	40	3.0
4							250	3,730	2,840	550	40	.75
5							240	4,380	3,030	500	30	.93
6							250	4,790	4,360	450	28	1.4
7							260	4,940	3,360	400	28	1.2
8							240	5,480	2,910	300	28	1.2
9							240	6,060	2,630	200	32	1.7
10							260	6,440	2,680	100	35	2.0
11							300	4,930	2,240	80	30	1.0
12							320	4,290	2,110	76	25	1.1
13							292	4,480	2,200	68	20	5.2
14							264	3,380	2,460	56	15	3.8
15							251	2,900	2,600	52	10	1.7
16							288	3,130	2,760	63	7.0	2.0
17							445	3,410	2,740	106	5.0	1.1
18							640	3,380	2,700	115	4.0	.65
19							936	3,920	2,600	120	3.0	.60
20							810	4,100	2,400	97	2.0	.60
21							690	3,070	2,200	137	1.1	.70
22							615	2,510	2,000	135	1.1	.65
23							990	2,470	1,800	128	1.1	.45
24							1,530	2,550	1,600	120	1.1	.45
25							2,230	2,730	1,400	113	1.1	.60
26							3,370	2,900	1,300	82	1.1	.50
27							3,780	3,280	1,100	62	1.1	.36
28							2,180	3,700	918	58	1.1	2.7
29					-----		2,000	3,940	900	64	1.1	17
30					-----		2,300	3,960	880	54	.87	13
31		-----			-----		-----	3,440	-----	50	.36	-----
TOTAL							25,851	118,960	69,738	6,586	473.13	67.59
MEAN							895	3,837	2,325	212	15.3	2.25
MAX							3,780	6,440	4,360	850	40	17
MIN							240	2,470	880	50	.36	.32
AC-FT							53,260	236,000	138,300	13,060	938	134

PEAK DISCHARGE (BASE, 3,200 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-27	0700	10.27	4,520	5-30	1130	10.17	4,390
5-10	1230	12.08	7,360	6- 6	1300	10.55	4,900
5-20	1230	10.35	4,620				

GREEN RIVER BASIN

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 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

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

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

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

AVERAGE DISCHARGE.--21 years, 9.53 ft³/s (0.270 m³/s), 6,900 acre-ft/yr (8.51 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); minimum daily, 1.4 ft³/s (0.040 m³/s) Aug. 23, 24, 26, 27.

Period of record: Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955.

REMARKS.--Records good except those for winter period, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (0.493 hm³).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.1	3.3	2.8	3.4	4.8	4.9	79	36	13	3.1	1.8
2	2.6	2.6	3.4	2.0	3.3	4.4	7.2	69	36	12	3.1	2.1
3	2.5	2.4	3.2	2.1	3.2	4.0	7.2	46	36	10	3.1	2.1
4	2.5	2.4	3.4	2.3	3.0	4.1	8.9	67	35	8.9	3.1	2.3
5	2.5	2.5	3.2	2.6	2.8	4.6	7.2	69	51	7.0	3.1	2.1
6	2.6	2.8	3.3	2.7	2.8	5.0	7.9	68	66	6.2	3.0	1.9
7	2.8	2.9	3.5	2.9	2.9	5.0	7.0	68	42	6.0	3.1	1.9
8	2.6	3.0	3.4	3.0	3.0	5.0	6.5	71	40	6.2	3.6	1.9
9	3.0	2.8	3.5	3.1	3.1	4.8	13	75	38	5.2	4.2	1.9
10	3.6	2.7	3.6	3.1	3.3	5.0	23	65	39	5.4	4.6	1.8
11	3.6	2.9	3.6	3.1	3.4	5.2	16	44	34	4.0	3.1	2.0
12	3.4	3.0	3.6	3.4	3.5	5.6	9.7	37	38	3.6	2.4	2.4
13	3.4	3.0	3.6	3.6	3.6	5.6	7.9	36	44	3.4	2.5	2.1
14	3.6	2.9	3.6	3.8	3.6	5.6	7.2	24	52	2.8	2.3	2.6
15	3.4	2.7	3.5	3.9	3.6	6.0	9.2	22	59	1.5	2.1	2.5
16	3.4	2.9	3.4	3.8	3.5	7.0	18	25	62	2.8	1.9	2.1
17	3.2	3.0	3.2	3.7	3.4	6.4	37	26	60	2.8	1.9	2.3
18	3.1	3.2	3.0	3.6	3.3	7.0	58	29	56	1.9	1.9	2.4
19	3.1	2.9	2.9	3.5	3.3	8.2	65	35	57	1.7	1.7	2.3
20	3.0	2.8	3.2	3.3	3.4	9.2	38	29	57	2.6	1.7	2.3
21	3.0	3.0	3.3	3.0	3.0	8.8	24	17	49	8.2	1.5	2.4
22	3.0	3.0	3.2	2.9	3.0	5.0	29	14	41	4.8	1.5	2.5
23	2.8	3.0	3.1	2.9	2.9	5.6	77	15	37	4.2	1.4	2.5
24	2.8	2.9	3.0	2.9	2.9	7.2	101	18	35	5.6	1.4	2.4
25	2.8	2.7	3.0	3.0	3.4	7.2	143	22	31	5.4	1.5	2.5
26	3.0	2.8	3.2	3.0	3.8	7.9	167	24	29	4.2	1.4	2.6
27	2.4	2.8	3.3	3.1	4.3	12	83	31	24	3.7	1.4	2.8
28	2.6	2.9	3.4	3.2	4.8	13	39	44	20	3.4	1.7	3.1
29	3.2	3.0	3.2	3.3	-----	10	44	44	17	3.8	1.7	3.1
30	3.0	3.1	3.0	3.4	-----	9.7	61	44	15	3.4	1.8	3.0
31	3.0	-----	2.9	3.6	-----	14	-----	39	-----	3.4	1.8	-----
TOTAL	92.3	85.7	102.0	96.6	93.5	212.9	1,130.8	1,296	1,236	157.1	72.6	69.7
MEAN	2.98	2.86	3.29	3.12	3.34	6.87	37.7	41.8	41.2	5.07	2.34	2.32
MAX	3.6	3.2	3.6	3.9	4.8	14	167	79	66	13	4.6	3.1
MIN	2.4	2.4	2.9	2.0	2.8	4.0	6.5	14	15	1.5	1.4	1.8
AC-FT	183	170	202	192	185	422	2,240	2,570	2,450	312	144	138

CAL YR 1973 TOTAL 4,869.8 MEAN 13.3 MAX 150 MIN 1.9 AC-FT 9,660
WTR YR 1974 TOTAL 4,645.2 MEAN 12.7 MAX 167 MIN 1.4 AC-FT 9,210

PEAK DISCHARGE (BASE, 70 FT³/S)

NOTE.--No gage-height record Dec. 24 to Mar. 20.

DATE	TIME	G.H.T.	DISCHARGE
4-18	2200	4.13	130
4-25	1900	5.42	319
6- 6	0200	3.89	101

GREAT SALT LAKE BASIN

187

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WYO.

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, Utah, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi² (89.6 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 563 ft³/s (15.9 m³/s) May 28, gage height, 4.00 ft (1.219 m); minimum, 5.9 ft³/s (0.17 m³/s) Apr. 8.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	20	14	11	10	11	14	39	384	173	51	18
2	27	20	14	11	10	11	15	45	389	166	58	18
3	26	20	14	11	10	11	15	39	389	150	50	18
4	25	20	14	11	10	11	14	42	361	135	45	18
5	25	20	14	11	10	11	15	63	363	128	42	18
6	25	18	14	11	10	12	15	82	289	121	41	17
7	24	18	14	11	10	12	15	104	237	116	40	17
8	24	18	14	11	10	12	13	145	202	111	38	16
9	26	18	14	11	10	12	12	209	179	107	36	16
10	27	18	14	11	10	12	12	233	181	103	35	15
11	25	18	13	11	10	13	14	200	222	98	33	16
12	25	18	13	11	10	13	12	205	293	92	32	18
13	26	18	13	11	10	13	15	199	355	87	31	17
14	28	18	13	11	10	13	19	176	414	84	29	17
15	27	18	13	11	10	13	22	171	429	82	28	16
16	26	18	13	10	10	15	26	174	412	88	27	16
17	24	18	13	10	10	20	21	187	410	83	26	15
18	23	18	13	10	10	16	18	200	395	81	26	15
19	22	18	13	10	10	13	16	199	387	88	25	14
20	22	18	13	10	10	13	16	159	385	90	24	14
21	21	16	12	10	10	13	23	134	357	79	24	14
22	20	16	12	10	10	13	25	123	322	73	24	14
23	20	16	12	10	10	13	19	129	300	74	23	14
24	22	16	12	10	10	13	23	154	285	69	22	13
25	21	16	12	10	10	14	32	204	271	64	22	13
26	20	16	12	10	11	18	35	275	256	60	21	13
27	22	16	12	10	11	17	31	379	232	61	21	14
28	23	16	12	10	11	14	33	465	210	60	20	14
29	18	16	12	10	-----	15	28	475	195	54	20	14
30	24	16	12	10	-----	15	30	420	184	52	19	13
31	20	-----	12	10	-----	14	-----	389	-----	50	19	-----
TOTAL	737	530	402	325	283	416	598	6,018	9,288	2,879	952	465
MEAN	23.8	17.7	13.0	10.5	10.1	13.4	19.9	194	310	92.9	30.7	15.5
MAX	29	20	14	11	11	20	35	475	429	173	58	18
MIN	18	16	12	10	10	11	12	39	179	50	19	13
AC-FT	1,460	1,050	797	645	561	825	1,190	11,940	18,420	5,710	1,890	922

WTR YR 1974 TOTAL 22,893 MEAN 62.7 MAX 475 MIN 10 AC-FT 45,410

NOTE.--No gage-height record Nov. 1 to Mar. 2.

BEAR RIVER BASIN

10010500 HILLIARD-EAST FORK CANAL NEAR STATE LINE, NEAR EVANSTON, WYO.

LOCATION.--Lat 40°54'49", long 110°49'25", in NW¼ sec.16, T.2 N., R.10 E., Summit County, Utah, Wasatch National Forest, on left bank 300 ft (91 m) downstream from road bridge, 0.8 mi (1.3 km) downstream from head, and 32 mi (51 km) south of Evanston.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 8,500 ft (2,590 m), from topographic map.

AVERAGE DISCHARGE.--32 years (1942-74), 5.01 ft³/s (0.142 m³/s), 3,630 acre-ft/yr (4.48 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 44 ft³/s (1.25 m³/s) July 3-5, 8, 1963; no flow during winter and at other times each year except 1958.

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres (10.5 km²) in Hilliard Flat area in Wyoming.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10								0	26	.23	.23
2	10								0	21	1.6	.23
3	9.8								0	21	2.5	.23
4	9.5								0	17	4.3	8.0
5	9.2								0	15	4.3	13
6	9.0								0	19	4.1	15
7	8.5								0	18	4.1	15
8	9.0								0	18	4.1	15
9	10								0	22	4.1	15
10	9.8								0	24	4.1	12
11	9.2								0	24	3.4	.15
12	8.7								0	22	1.1	.04
13	10								0	20	.23	0
14	11								0	20	.23	0
15	9.8								0	26	.23	0
16	9.0								0	32	.23	0
17	8.5								0	31	.23	0
18	8.2								0	30	.23	0
19	8.0								0	30	.23	0
20	7.6								0	30	.23	0
21	7.3								0	28	.23	0
22	7.1								0	26	.23	0
23	7.3								0	27	.23	0
24	1.3								0	26	.23	0
25	0								3.6	24	.23	0
26	0								19	22	.23	0
27	0								21	23	.23	0
28	0								21	23	.23	0
29	0								28	13	.23	0
30	0								32	.12	.23	0
31	0	-----							-----	.04	.23	-----
TOTAL	207.8	0	0	0	0	0	0	0	124.6	678.16	42.30	93.88
MEAN	6.70	0	0	0	0	0	0	0	4.15	21.9	1.36	3.13
MAX	11	0	0	0	0	0	0	0	32	32	4.3	15
MIN	0	0	0	0	0	0	0	0	0	.04	.23	0
AC-FT	412	0	0	0	0	0	0	0	247	1,350	84	186

CAL YR 1973 TOTAL 1,102.03 MEAN 3.02 MAX 37 MIN 0 AC-FT 2,190
WTR YR 1974 TOTAL 1,146.74 MEAN 3.14 MAX 32 MIN 0 AC-FT 2,270

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UTAH

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Wasatch National Forest, on left bank 1,380 ft (421 m) below Whitney Dam, 7.0 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi² (17.59 km²).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965, published as "at Whitney Dam Site".

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m), from topographic map.

AVERAGE DISCHARGE.--8 years (1967-74), 8.88 ft³/s (0.251 m³/s), 6,430 acre-ft/yr (7.93 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 114 ft³/s (3.23 m³/s) July 21, gage height, 2.76 ft (0.841 m); minimum daily, 0.52 ft³/s (0.015 m³/s) Aug. 14.

Period of record: Maximum discharge, 145 ft³/s (4.11 m³/s) June 13, 1965, gage height, 1.95 ft (0.594 m); maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

REMARKS.--Records good. Flow regulated by Whitney Reservoir. Usable capacity between sill of outlet and spillway crest, 4,200 acre-ft (5.18 hm³). Dead storage, 500 acre-ft (0.617 hm³). Construction of dam began Aug. 1, 1965 and completed October 1966. Storage began July 24, 1966, and reached sill of outlet Nov. 20, 1966. No diversion above station.

REVISIONS.--WRD Wyo 1973: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	4.2	3.8	3.8	2.6	2.4	2.7	4.8	18	.65	41
2	12	9.8	4.1	3.8	3.8	2.5	2.4	2.7	48	17	.63	41
3	12	9.8	3.9	3.8	3.8	2.4	2.4	2.7	88	16	.63	40
4	12	9.7	3.9	3.8	3.8	2.4	2.4	2.8	87	15	.63	65
5	12	9.6	4.0	3.8	3.8	2.5	2.4	2.8	87	15	.63	76
6	12	9.6	4.0	3.8	3.8	2.5	2.4	2.9	84	14	.62	73
7	27	9.6	4.0	3.8	3.8	2.5	2.4	2.9	71	13	.60	70
8	35	9.6	4.0	3.8	3.8	2.5	2.4	3.0	63	12	.59	68
9	38	9.6	4.0	3.8	3.8	2.5	2.4	3.0	51	11	.57	67
10	42	9.6	4.0	3.8	3.8	2.5	2.4	3.0	47	10	.57	64
11	42	9.6	4.1	3.8	3.8	2.5	2.4	3.0	52	9.0	.57	59
12	42	6.5	3.9	3.8	3.8	2.5	2.4	3.1	63	12	.57	54
13	38	4.5	3.9	3.8	3.8	2.2	2.4	3.1	69	7.0	.57	19
14	35	4.4	3.9	3.8	3.8	2.1	2.4	3.1	71	6.0	.52	1.8
15	35	4.3	3.9	3.8	3.8	2.1	2.4	3.1	77	54	.54	1.7
16	34	4.3	3.9	3.8	3.0	2.1	2.5	3.2	75	61	.54	1.7
17	34	4.3	3.8	3.8	2.6	2.1	2.5	3.2	69	61	.54	1.8
18	34	4.2	3.7	3.8	2.6	2.2	2.5	3.3	65	61	.54	1.7
19	33	4.3	3.8	3.8	2.6	2.2	2.5	3.3	67	60	12	1.7
20	17	4.3	3.8	3.8	2.6	2.4	2.5	3.4	67	60	39	1.8
21	11	4.3	3.7	3.8	2.6	2.6	2.5	3.4	59	67	39	1.8
22	11	4.2	3.7	3.8	2.6	2.6	2.6	3.4	50	100	39	1.8
23	11	4.2	3.7	3.8	2.6	2.6	2.6	3.4	38	98	39	1.8
24	11	4.2	3.7	3.8	2.6	2.5	2.6	3.4	27	77	39	1.8
25	11	4.2	3.7	3.8	2.6	2.5	2.6	3.5	27	86	38	1.7
26	11	4.2	3.8	3.8	2.6	2.4	2.6	3.5	26	85	39	1.7
27	11	4.2	3.8	3.8	2.6	2.3	2.6	3.7	24	83	43	1.8
28	11	4.2	3.8	3.8	2.6	2.3	2.6	3.7	21	82	43	1.8
29	11	4.2	3.8	3.8	-----	2.3	2.6	3.5	20	36	43	1.8
30	11	4.2	3.8	3.8	-----	2.3	2.7	3.3	19	.75	42	1.8
31	10	-----	3.8	3.8	-----	2.3	-----	3.4	-----	.67	42	-----
TOTAL	678	189.5	120.1	117.8	91.2	74.0	74.5	98.6	1,616.8	1,247.42	507.51	767.0
MEAN	21.9	6.32	3.87	3.80	3.26	2.39	2.48	3.18	53.9	40.2	16.4	25.6
MAX	42	9.8	4.2	3.8	3.8	2.6	2.7	3.7	88	100	43	76
MIN	10	4.2	3.7	3.8	2.6	2.1	2.4	2.7	4.8	.67	.52	1.7
AC-FT	1,340	376	238	234	181	147	148	196	3,210	2,470	1,010	1,520

CAL YR 1973 TOTAL 2,242.68 MEAN 6.14 MAX 74 MIN .62 AC-FT 4,450
WTR YR 1974 TOTAL 5,582.43 MEAN 15.3 MAX 100 MIN .52 AC-FT 11,070

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, Utah, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

EXTREMES.--Current year: Maximum discharge, 480 ft³/s (13.6 m³/s) May 9, gage height, 3.83 ft (1.167 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 18, Sept. 24-26.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir. Usable capacity between sill of outlet and spillway crest, 4,200 acre-ft (5.18 hm³). Dead storage, 500 acre-ft (0.617 hm³). 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.

[illegible]

BEAR RIVER BASIN

191

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, Utah, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m), from river-profile map.

AVERAGE DISCHARGE.--32 years, 192 ft³/s (5.437 m³/s), 139,100 acre-ft/yr (172 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,140 ft³/s (60.6 m³/s) May 29, gage height, 3.42 ft (1.042 m); minimum daily, 45 ft³/s (1.27 m³/s) Sept. 25, 26.

Period of record: Maximum discharge, 2,980 ft³/s (84.4 m³/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 16 ft³/s (0.45 m³/s) Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir completed 1966. Usable capacity, 4,200 acre-ft (5.18 hm³). Three diversions above station for irrigation of about 265 acres (107 hm²) above and 2,600 acres (10.5 km²) below station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	83	66	60	53	51	55	216	1,280	424	101	76
2	85	74	66	60	55	48	59	244	1,300	395	112	76
3	83	81	65	60	52	55	62	228	1,340	358	105	75
4	81	81	65	60	52	55	62	240	1,210	302	93	85
5	79	91	65	60	52	56	53	320	1,270	276	85	98
6	79	85	64	60	52	55	61	464	1,100	252	81	88
7	85	83	64	58	52	53	61	622	885	242	80	84
8	93	87	64	58	52	53	56	777	784	240	78	83
9	106	83	62	58	52	53	64	840	678	228	74	80
10	109	83	60	58	52	55	61	984	678	206	73	77
11	109	81	62	58	52	53	61	849	813	200	71	88
12	109	91	64	58	52	52	62	912	993	184	70	92
13	109	81	62	58	52	53	64	885	1,160	167	69	83
14	114	72	60	58	52	55	65	768	1,310	159	65	56
15	111	66	58	58	53	56	62	786	1,390	159	65	53
16	104	81	61	58	50	58	66	777	1,240	216	65	51
17	100	74	61	56	50	65	66	786	1,210	214	63	50
18	96	70	61	62	50	66	78	858	1,120	202	61	48
19	93	70	61	56	50	61	83	858	1,100	202	62	48
20	87	64	58	55	50	62	76	702	1,080	219	81	47
21	76	72	61	56	50	50	76	569	1,010	203	83	46
22	74	59	61	58	50	59	78	527	921	211	84	46
23	74	65	59	58	50	65	98	548	858	212	83	46
24	79	65	61	58	50	52	125	622	804	191	81	46
25	83	65	60	58	50	61	168	813	759	188	81	45
26	78	65	60	59	50	62	208	1,010	718	176	80	45
27	74	65	60	58	51	62	179	1,340	641	167	82	46
28	78	65	60	55	51	61	152	1,610	577	164	80	48
29	79	65	60	56	-----	59	149	1,710	524	142	79	49
30	78	65	60	64	-----	62	165	1,450	472	106	77	47
31	81	-----	60	58	-----	61	-----	1,290	-----	104	76	-----
TOTAL	2,777	2,232	1,911	1,807	1,437	1,769	2,673	24,605	29,227	6,709	2,440	1,902
MEAN	89.6	74.4	61.6	58.3	51.3	57.1	89.1	794	974	216	78.7	63.4
MAX	114	91	66	64	55	66	208	1,710	1,390	424	112	98
MIN	74	59	58	55	50	48	53	216	472	104	61	45
AC-FT	5,510	4,430	3,790	3,580	2,850	3,510	5,300	48,800	57,970	13,310	4,840	3,770

CAL YR 1973 TOTAL 70,664 MEAN 194 MAX 1,520 MIN 41 AC-FT 140,200
WTR YR 1974 TOTAL 79,489 MEAN 218 MAX 1,710 MIN 45 AC-FT 157,700

PEAK DISCHARGE (BASE, 1,100 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0100	3.42	2,140
6-15	0200	3.20	1,840

LOCATION.--Lat 41°08'38", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2.0 mi (3.2 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

AVERAGE DISCHARGE.--17 years, 16.6 ft³/s (0.470 m³/s), 12,030 acre-ft/yr (14.8 hm³/yr).

Period of record: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Apr. 21, 1965, gage height, 6.02 ft (1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	11	9.0	4.0	3.0	11	63	191	77	6.1	1.7	.24
2	4.5	12	8.0	3.5	3.0	12	40	232	66	5.9	1.1	.28
3	4.3	12	8.0	3.5	3.0	8.0	40	190	64	7.2	1.2	.33
4	4.3	13	8.0	3.5	3.0	6.5	44	149	49	6.4	1.1	.33
5	4.3	9.9	8.0	3.5	3.0	8.0	43	223	62	5.6	.92	.36
6	4.3	10	8.0	3.5	3.0	10	39	257	101	4.5	.84	.33
7	4.3	19	8.0	3.5	3.0	9.0	33	288	72	4.0	.76	.33
8	4.3	20	8.0	3.5	3.0	8.0	32	323	94	3.8	.76	.33
9	4.9	14	8.0	3.5	3.0	8.0	43	409	77	3.2	.68	.33
10	6.9	11	8.0	3.5	3.0	10	27	402	53	3.0	.60	.30
11	7.7	10	8.0	3.0	3.5	13	30	196	45	2.7	.57	.30
12	7.7	11	8.0	3.0	4.0	17	31	235	48	2.5	.51	.33
13	7.7	14	8.0	3.0	4.0	22	29	241	45	2.0	.45	.39
14	6.7	14	8.0	3.0	4.0	27	34	155	36	1.6	.42	.39
15	6.4	12	8.0	3.0	4.0	35	35	154	36	1.9	.42	.39
16	6.4	13	7.0	3.0	4.0	45	34	176	45	1.9	.39	.39
17	5.9	14	7.0	3.0	4.0	60	44	142	48	1.9	.33	.39
18	5.9	14	7.0	3.0	4.0	65	67	268	41	2.4	.30	.39
19	5.9	14	7.0	3.0	4.0	45	82	207	33	1.7	.28	.39
20	5.9	14	7.0	3.0	4.0	35	69	137	29	1.6	.24	.39
21	5.6	12	6.0	3.0	4.0	25	67	92	23	2.0	.24	.39
22	5.6	11	6.0	3.0	4.0	35	69	85	19	1.6	.26	.39
23	5.6	10	6.0	3.0	4.0	50	124	86	15	2.0	.26	.39
24	6.4	9.0	6.0	3.0	4.0	40	205	100	12	2.4	.26	.36
25	7.2	8.0	6.0	3.0	6.0	55	338	137	11	2.7	.24	.33
26	6.9	7.0	5.0	3.0	8.0	76	348	142	9.2	1.7	.24	.33
27	6.1	7.0	5.0	3.0	7.0	77	192	178	8.6	.92	.24	.33
28	6.4	7.0	5.0	3.0	8.5	79	122	180	8.9	1.4	.24	.36
29	6.7	8.0	5.0	3.0	-----	57	111	137	8.0	2.0	.26	.36
30	7.4	9.0	5.0	3.0	-----	77	134	111	7.2	3.2	.26	.36
31	8.6	-----	5.0	3.0	-----	100	-----	81	-----	3.2	.26	-----
TOTAL	185.5	349.9	216.0	98.5	115.0	1,125.5	2,569	5,904	1,242.9	93.02	16.33	10.54
MEAN	5.98	11.7	6.97	3.18	4.11	36.3	85.6	190	41.4	3.00	.53	.35
MAX	8.6	20	9.0	4.0	8.5	100	348	409	101	7.2	1.7	.39
MIN	4.3	7.7	5.0	3.0	3.0	6.5	27	81	7.2	.92	.24	.24
AC-FT	368	694	428	195	228	2,230	5,100	11,710	2,470	185	32	21
CAL YR 1973	TOTAL	10,262.50	MEAN	28.1	MAX	260	MIN	1.3	AC-FT	20,360		
WTR YR 1974	TOTAL	11,526.19	MEAN	32.7	MAX	409	MIN	.24	AC-FT	23,660		

BEAR RIVER BASIN

193

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WYO.

LOCATION.--Lat 41°09'21", long 110°50'05", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.14 N., R.119 W., Uinta County, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi² (179.2 km²), revised.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m), from topographic map.

AVERAGE DISCHARGE.--6 years (1958-64), 11.2 ft³/s (0.317 m³/s), 8,110 acre-ft/yr (10.0 hm³/yr). 10 years (1964-74), 28.0 ft³/s (0.793 m³/s), 20,290 acre-ft/yr (25.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 425 ft³/s (12.0 m³/s) May 10, gage height, 3.71 ft (1.131 m); no flow Oct. 1-23, Sept. 29, 30.

1958-64: Maximum discharge, 164 ft³/s (4.64 m³/s) June 29, 1959, gage height, 3.67 ft (1.119 m); no flow at times each year.

1964-74: Maximum discharge, 425 ft³/s (12.0 m³/s) May 10, 1974, gage height, 3.71 ft (1.131 m); no flow at times each year except 1972.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir 400 ft (122 m) upstream, capacity, 7,100 acre-ft (8.75 hm³). Enlargement completed November 1964. Prior to enlargement, capacity, 4,600 acre-ft (5.67 hm³). Records prior to 1965 to not include flow over spillway of the dam.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	62	8.1	8.2	8.4	14	16	225	106	7.5	27	42
2	0	61	8.1	8.1	8.4	15	16	225	105	7.6	27	41
3	0	61	8.1	8.0	8.5	14	16	225	104	8.6	27	37
4	0	60	8.0	7.8	8.8	15	16	224	104	9.0	27	31
5	0	60	7.6	7.8	8.7	15	16	224	85	9.5	27	37
6	0	60	7.7	7.8	8.7	14	16	224	41	9.6	27	36
7	0	59	7.8	7.8	8.5	14	16	227	41	9.3	27	29
8	0	60	7.8	7.7	8.5	14	16	231	41	9.1	32	29
9	0	59	7.8	7.7	8.5	14	17	270	41	16	36	29
10	0	59	7.8	7.7	8.5	14	17	392	41	25	35	25
11	0	59	7.9	7.6	8.5	14	17	319	41	25	35	17
12	0	58	8.1	7.6	8.5	14	41	272	42	36	40	16
13	0	58	8.1	7.6	8.5	14	94	265	43	45	42	16
14	0	58	8.1	7.7	8.5	14	93	240	43	45	42	15
15	0	57	8.1	7.8	8.5	14	92	230	44	45	42	9.7
16	0	57	8.1	7.8	8.3	14	91	228	46	39	42	9.7
17	0	56	8.2	7.8	8.5	14	92	227	49	37	42	9.6
18	0	56	8.3	7.8	8.6	14	91	227	53	36	41	9.6
19	0	55	8.3	7.8	8.6	14	91	227	55	36	41	30
20	0	55	8.3	7.8	8.6	15	93	226	54	29	46	74
21	0	54	8.1	7.9	8.5	14	92	224	50	24	67	52
22	0	54	8.3	8.0	8.6	15	93	221	47	24	76	9.9
23	0	53	8.3	8.1	8.5	15	156	218	46	24	63	9.9
24	65	46	8.3	8.1	8.8	15	220	114	45	17	56	9.9
25	65	8.3	8.3	8.1	8.8	15	251	34	44	17	56	9.9
26	64	8.3	8.3	8.2	11	15	383	35	25	16	55	9.9
27	64	8.3	8.3	8.3	14	15	331	35	12	12	55	9.9
28	63	8.2	8.3	8.5	14	15	256	36	12	12	54	4.3
29	63	8.1	8.3	8.5	-----	15	231	51	12	12	54	0
30	63	8.1	8.3	8.5	-----	15	227	105	12	13	52	0
31	62	-----	8.3	8.5	-----	15	-----	106	-----	22	42	-----
TOTAL	509	1,426.3	251.4	246.6	252.8	448	3,197	6,107	1,484	677.2	1,335	658.3
MEAN	16.4	47.5	8.11	7.95	9.03	14.5	107	197	49.5	21.8	43.1	21.9
MAX	65	62	8.3	8.5	14	15	383	392	106	45	76	74
MIN	0	8.1	7.6	7.6	8.3	14	16	34	12	7.5	27	0
AC-FT	1,010	2,830	499	489	501	889	6,340	12,110	2,940	1,340	2,650	1,310

CAL YR 1973 TOTAL 12,118.31 MEAN 33.2 MAX 218 MIN 0 AC-FT 24,040
WTR YR 1974 TOTAL 16,592.60 MEAN 45.5 MAX 392 MIN 0 AC-FT 32,910

BEAR RIVER BASIN

10017000 YELLOW CREEK NEAR EVANSTON, WYO.

LOCATION.--Lat 41°08'39", long 111°03'08", in NW¼NW¼NW¼ sec.28, T.5 N., R.8 E., Summit County, Utah, on left bank 600 ft (183 m) downstream from Sage Creek, 1.5 mi (2.4 km) upstream from Coyote Creek, 1.8 mi (2.9 km) downstream from Barker Dam, and 9.8 mi (15.8 km) southwest of Evanston.

DRAINAGE AREA.--79.2 mi² (205.1 km²), revised.

PERIOD OF RECORD.--October 1944 to September 1945, October 1949 to current year. Records for February 1943 to September 1944 at site 1.2 mi (1.9 km) downstream not equivalent, but would be equivalent by adding flow of Wright No. 2 and Cook Canals, in reports on Bear River Hydrometric Data, 1944 (Geological Survey open-file report).

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft (2,109 m), from river-profile map. Oct. 1, 1944, to Sept. 30, 1945, at site 500 ft (152 m) upstream, at different datums.

AVERAGE DISCHARGE.--26 years (1944-45, 1949-74), 10.8 ft³/s (0.306 m³/s), 7,820 acre-ft/yr (9.64 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 400 ft³/s (11.3 m³/s) May 10, gage height, 6.73 ft (2.051 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Aug. 15-26, Sept. 23-30.

Period of record: Maximum discharge, 477 ft³/s (13.5 m³/s) Apr. 28, 1952, gage height, 7.04 ft (2.146 m); maximum gage height, 7.05 ft (2.149 m) Mar. 12, 1972 (backwater from ice); no flow at times in most years.

REMARKS.--Records good except those for winter months, which are fair. One small diversion for irrigation of hay meadows above station. Flow regulated by Barker Reservoir, capacity, 162 acre-ft (0.200 hm³), completed in fall of 1959.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.4	5.4	3.5	2.5	6.5	24	125	90	6.3	.98	.33
2	5.2	6.6	5.0	3.0	2.5	6.0	21	170	80	5.8	.98	.33
3	4.9	7.0	4.5	3.0	2.5	5.0	19	200	75	5.9	.80	.33
4	4.5	7.0	4.4	3.0	2.5	4.1	18	173	60	6.1	.71	.33
5	3.9	7.0	4.4	3.0	2.5	4.4	17	182	59	5.8	.67	.33
6	3.4	6.2	4.5	3.0	2.5	6.5	20	205	63	4.8	.67	.33
7	3.6	6.6	4.5	3.0	2.5	5.6	18	216	63	3.9	.63	.33
8	3.2	6.6	4.5	3.0	2.5	4.9	17	231	60	4.2	.50	.33
9	3.7	6.2	4.5	3.0	2.5	4.4	20	267	57	3.6	.41	.33
10	4.1	5.2	4.5	3.0	2.5	5.6	25	293	53	3.6	.37	.33
11	4.6	4.8	5.0	3.0	3.0	6.5	23	207	45	3.9	.37	.33
12	4.9	4.9	5.2	3.0	3.0	6.0	26	183	42	3.7	.33	.33
13	4.8	5.2	4.5	3.0	3.0	6.5	22	185	40	3.3	.33	.33
14	4.5	5.0	4.4	3.0	3.0	10	22	171	39	2.9	.33	.33
15	4.4	5.0	4.4	3.0	3.5	15	22	139	35	3.4	.30	.33
16	3.9	4.9	4.2	3.0	3.5	20	24	138	36	4.5	.30	.33
17	3.8	4.8	4.4	3.0	3.5	21	28	135	34	4.8	.30	.33
18	4.2	5.0	3.9	3.0	3.5	18	35	134	33	5.6	.30	.33
19	4.4	5.0	4.0	3.0	3.5	16	39	130	32	5.6	.30	.33
20	4.0	5.0	4.0	3.0	3.5	14	42	140	30	5.3	.30	.33
21	5.7	4.5	4.1	2.8	3.5	15	39	120	25	4.9	.30	.33
22	10	4.3	3.8	2.8	3.5	17	41	83	20	4.4	.30	.33
23	11	4.3	3.6	2.7	3.5	19	47	83	19	4.0	.30	.30
24	6.0	4.5	3.4	2.6	3.5	19	87	100	18	3.7	.30	.30
25	5.8	4.5	3.7	2.6	3.5	20	139	121	17	3.1	.30	.30
26	5.6	4.5	4.0	2.6	5.6	22	174	114	15	2.5	.33	.30
27	5.2	4.5	4.1	2.5	5.0	25	175	108	12	1.9	.33	.30
28	5.2	4.5	4.2	3.2	6.5	27	147	112	10	1.5	.33	.30
29	5.2	4.7	3.9	2.5	-----	23	111	114	8.9	1.3	.33	.30
30	5.4	5.0	3.5	2.5	-----	26	85	112	7.7	1.0	.33	.30
31	5.8	-----	3.5	2.5	-----	27	-----	109	-----	1.0	.33	-----
TOTAL	156.5	159.7	132.0	89.8	92.6	426.0	1,527	4,800	1,178.6	122.3	13.36	9.66
MEAN	5.05	5.32	4.26	2.90	3.31	13.7	50.9	155	39.3	3.95	.43	.32
MAX	11	7.0	5.4	3.5	6.5	27	175	293	90	6.3	.98	.33
MIN	3.2	4.3	3.4	2.5	2.5	4.1	17	83	7.7	1.0	.30	.30
AC-FT	310	317	262	178	184	845	3,030	9,520	2,340	243	26	19

CAL YR 1973 TOTAL 6,272.00 MEAN 17.2 MAX 183 MIN 2.2 AC-FT 12,440
WTR YR 1974 TOTAL 8,707.52 MEAN 23.9 MAX 293 MIN .30 AC-FT 17,270

BEAR RIVER BASIN

195

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WYO.

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m), from river-profile map. Prior to Oct. 11, 1946, nonrecording gage and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder at site 20 ft (6 m) downstream at same datum.

AVERAGE DISCHARGE.--30 years (1944-74), 19.9 ft³/s (0.564 m³/s), 14,420 acre-ft/yr (17.8 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 143 ft³/s (4.05 m³/s) June 24, 1970; no flow at times each year.

REMARKS.--Records fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and for irrigation in Salaratus basin, Utah.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.85	20	70	39	30	7.8
2						0	.94	22	67	34	32	7.6
3						0	1.0	24	66	33	34	7.4
4						0	1.0	19	66	28	40	7.1
5						0	1.1	22	68	23	34	7.6
6						0	1.2	25	73	20	25	7.6
7						0	1.3	28	60	19	25	8.4
8						0	1.2	39	63	17	23	11
9						.12	.94	95	57	25	23	11
10						.36	1.0	122	51	26	21	17
11						.49	1.2	97	73	26	16	3.3
12						.58	1.4	89	71	18	13	.32
13						.67	1.4	86	81	19	11	12
14						.76	1.8	66	88	18	9.4	15
15						.85	11	43	89	16	8.6	14
16						.94	39	76	109	19	9.4	13
17						1.0	41	72	113	28	8.8	18
18						1.1	44	74	110	52	6.5	17
19						1.1	45	88	91	58	3.1	15
20						1.1	48	77	79	66	4.2	13
21						1.2	44	60	73	71	4.5	11
22						1.2	46	77	79	66	5.3	11
23						1.1	48	74	76	87	6.0	9.1
24						1.1	48	72	69	83	12	7.6
25						1.0	53	66	81	76	14	7.4
26						1.0	55	66	75	64	13	4.9
27						.94	38	69	66	51	13	7.1
28						.94	29	75	60	42	12	8.4
29						.94	22	75	52	46	12	8.8
30						.94	21	77	47	38	11	7.8
31						.85		74		28	10	
TOTAL	0	0	0	0	0	20.28	648.33	1,969	2,223	1,236	489.8	296.22
MEAN	0	0	0	0	0	.65	21.6	63.5	74.1	39.9	15.8	9.87
MAX	0	0	0	0	0	1.2	55	122	113	87	40	18
MIN	0	0	0	0	0	0	.85	19	47	16	3.1	.32
AC-FT	0	0	0	0	0	40	1,290	3,910	4,410	2,450	972	588
CAL YR 1973	TOTAL 8,995.50		MEAN 24.6		MAX 134		MIN 0		AC-FT 17,840			
WTR YR 1974	TOTAL 6,882.63		MEAN 18.9		MAX 122		MIN 0		AC-FT 13,650			

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi² (1,948 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m), from river-profile map.

AVERAGE DISCHARGE.--13 years, 256 ft³/s (7.250 m³/s), 185,500 acre-ft/yr (229 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) May 11, gage height, 5.38 ft (1.640 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Aug. 18, 19.

Period of record: Maximum discharge, 3,340 ft³/s (94.6 m³/s) June 13, 14, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 24, 1964.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	214	170	110	110	130	326	894	1,670	211	9.8	12
2	123	222	160	100	110	130	303	1,070	1,540	202	8.9	13
3	118	202	150	100	110	130	277	1,140	1,520	222	9.3	18
4	114	208	140	100	110	125	273	1,070	1,460	205	9.3	21
5	112	211	135	100	110	125	269	1,140	1,340	175	9.8	18
6	112	211	130	100	105	125	273	1,270	1,550	144	9.3	21
7	107	228	130	100	105	125	269	1,420	1,280	125	12	21
8	112	254	130	100	105	125	254	1,560	1,080	99	10	13
9	132	239	130	100	105	140	273	1,750	942	71	10	10
10	158	218	130	100	105	150	335	1,910	763	60	12	10
11	166	208	130	110	105	170	298	2,060	674	43	13	25
12	169	205	130	110	105	200	335	1,970	781	32	12	27
13	169	222	130	110	105	240	345	1,940	972	33	12	19
14	166	225	130	110	105	280	375	1,920	1,120	33	13	14
15	166	196	130	110	105	330	380	1,710	1,240	33	12	15
16	164	187	130	110	105	400	375	1,610	1,300	36	12	13
17	158	218	130	110	105	460	434	1,610	1,240	48	8.4	11
18	150	208	130	110	105	480	494	1,560	1,200	218	6.6	10
19	140	199	130	110	105	453	536	1,660	1,130	199	6.6	11
20	140	196	130	110	105	392	590	1,700	1,060	164	7.0	11
21	132	196	120	110	105	335	512	1,390	996	172	7.0	13
22	118	187	120	110	105	298	566	1,160	870	137	9.3	15
23	114	180	120	110	105	281	632	1,040	732	99	31	15
24	155	160	120	110	105	242	850	1,030	644	72	38	15
25	181	150	120	110	105	239	1,120	918	572	62	16	13
26	187	150	120	110	105	290	1,440	1,040	536	40	12	14
27	190	150	120	110	110	321	1,400	1,220	447	32	11	13
28	181	160	120	110	120	365	1,090	1,530	360	26	11	9.8
29	187	170	120	110	-----	321	870	1,780	285	18	10	9.8
30	196	170	120	110	-----	326	812	1,880	236	13	12	9.8
31	190	-----	120	110	-----	380	-----	1,860	-----	11	13	-----
TOTAL	4,639	5,944	4,025	3,320	2,985	8,108	16,276	45,812	29,540	3,035	373.3	440.4
MEAN	150	198	130	107	107	262	543	1,478	985	97.9	12.0	14.7
MAX	196	254	170	110	120	480	1,440	2,060	1,670	222	38	27
MIN	107	150	120	100	105	125	254	894	236	11	6.6	9.8
AC-FT	9,200	11,790	7,980	6,590	5,920	16,080	32,280	90,870	58,590	6,020	740	874

CAL YR 1973 TOTAL 103,082.3 MEAN 282 MAX 1,970 MIN 9.3 AC-FT 204,500
WTR YR 1974 TOTAL 124,497.7 MEAN 341 MAX 2,060 MIN 5.6 AC-FT 246,900

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, Wyoming, in gate house on dam, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²), revised.

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

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m), from levels by Bureau of Reclamation.

EXTREMES.--Current year: Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, gage height, 38.3 ft (11.67 m); minimum, 12,900 acre-ft (15.9 hm³) Sept. 29, 30.

Period of record: Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, 1974, gage height, 38.3 ft (11.67 m); minimum, 6,480 acre-ft (7.99 hm³) Sept. 11-13, 1966.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm³) below spillway crest, which includes 18,240 acre-ft (22.5 hm³) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm³) of irrigation holdover, 4,000 acre-ft (4.93 hm³) for winter release for fish propagation in Utah, and 1,500 acre-ft (1.85 hm³) of storage for fish propagation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

Capacity table (gage height, in feet, and total contents, in acre-feet)

21	10,760	30	20,180
22	11,600	32	23,040
24	13,360	34	25,800
26	15,570	36	29,000
28	17,770	38	32,520

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18,510	23,760	28,120	25,340	21,180	18,390	29,000	30,850	32,520	26,140	16,240	14,900
2	18,640	24,010	28,120	25,170	21,030	18,260	29,000	31,030	32,180	25,340	16,120	14,900
3	18,760	24,260	28,120	25,010	20,890	18,260	29,000	31,200	32,020	24,710	16,120	14,900
4	18,880	24,560	28,120	24,860	20,700	18,260	28,860	31,200	32,020	24,140	16,120	14,800
5	19,000	24,860	28,120	24,710	20,510	18,130	28,860	31,200	31,850	23,520	16,000	14,800
6	19,000	25,170	28,120	24,560	20,360	18,130	28,860	31,530	32,020	22,590	16,000	14,700
7	19,120	25,500	28,120	24,560	20,270	18,130	28,860	31,690	31,850	21,600	16,000	14,700
8	19,240	25,970	28,120	24,410	20,180	18,130	28,860	32,020	31,370	20,510	15,890	14,590
9	19,240	26,320	28,120	24,260	20,060	18,260	28,860	32,350	31,200	20,060	15,890	14,480
10	19,480	26,660	28,120	24,140	19,960	18,390	29,000	32,520	30,850	19,600	15,890	14,370
11	19,600	27,020	27,970	24,010	19,840	18,510	29,000	33,080	30,410	19,120	15,780	14,370
12	19,840	27,370	27,970	23,890	19,720	18,880	29,000	32,880	30,410	18,640	15,780	14,260
13	20,060	27,690	27,970	23,760	19,600	19,120	29,000	32,520	30,850	18,130	15,670	14,260
14	20,270	27,970	27,970	23,640	19,480	19,480	29,180	32,520	31,200	17,660	15,670	14,140
15	20,360	28,120	27,970	23,520	19,360	19,840	29,180	32,180	31,370	17,130	15,670	14,030
16	20,700	28,120	27,970	23,410	19,240	20,270	29,180	32,020	31,690	16,600	15,570	13,910
17	20,890	28,260	27,930	23,290	19,120	21,320	29,370	31,850	31,690	16,000	15,570	13,910
18	21,030	28,410	27,690	23,160	19,000	22,590	29,550	31,850	31,690	15,670	15,450	13,800
19	21,180	28,410	27,370	23,040	19,000	23,520	29,550	31,850	31,530	15,890	15,450	13,690
20	21,320	28,410	27,200	22,890	18,880	24,140	29,740	32,020	31,370	16,120	15,340	13,580
21	21,460	28,260	27,020	22,740	18,880	24,710	29,740	31,530	31,200	16,240	15,340	13,580
22	21,600	28,260	27,020	22,590	18,760	25,170	29,740	31,370	31,030	16,370	15,220	13,470
23	21,600	28,260	26,840	22,450	18,760	25,800	29,930	31,200	30,630	16,490	15,220	13,360
24	21,740	28,260	26,660	22,310	18,640	26,320	30,230	31,030	30,230	16,490	15,220	13,270
25	22,020	28,120	26,490	22,170	18,640	26,840	30,850	30,850	30,080	16,490	15,220	13,270
26	22,170	28,120	26,320	22,020	18,510	27,550	31,530	31,030	29,550	16,490	15,220	13,180
27	22,450	28,120	26,140	21,880	18,510	28,120	31,690	31,370	29,180	16,490	15,220	13,090
28	22,740	28,120	25,970	21,740	18,390	28,560	31,370	31,850	28,560	16,370	15,110	13,000
29	22,890	28,120	25,800	21,600	-----	28,710	31,030	32,180	27,830	16,370	15,110	12,900
30	23,160	28,120	25,650	21,460	-----	28,860	30,850	32,520	27,020	16,370	15,000	12,900
31	23,520	-----	25,500	21,320	-----	29,000	-----	32,700	-----	16,370	15,000	-----
MAX	23,520	28,410	28,120	25,340	21,180	29,000	31,690	33,080	32,520	26,140	16,240	14,900
MIN	18,510	23,760	25,500	21,320	18,390	18,130	28,860	30,850	27,020	15,670	15,000	12,900
(+)	32.4	35.4	33.8	30.8	28.5	36.0	37.0	38.1	34.7	26.7	25.5	23.5
(‡)	+5,130	+4,600	-2,620	-4,180	-2,930	+10,610	+1,850	+1,850	-5,680	-10,650	-1,370	-2,100

CAL YR 1973..... ‡ +5,900

WTR YR 1974..... ‡ -5,490

† Gage height, in feet, at 2400 of last day of month.

‡ Change in contents, in acre-feet.

BEAR RIVER BASIN

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, on right bank 1,100 ft (340 m) below Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.35 ft (1,950.217 m) above mean sea level (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

AVERAGE DISCHARGE.--13 years, 250 ft³/s (7.080 m³/s), 181,100 acre-ft/yr (223 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) May 12, gage height, 7.35 ft (2.240 m); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 9, 11-14, 16, 17, 19, Sept. 1, 2.

Period of record: Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200). Diversions for irrigation of about 43,500 acres (176 km²) above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	66	108	123	140	152	350	852	1,780	502	29	26
2	59	66	109	123	141	153	320	898	1,650	590	29	26
3	60	66	109	124	141	153	310	996	1,560	586	29	27
4	61	67	110	124	142	154	300	1,060	1,520	580	29	27
5	61	67	110	125	142	154	282	1,060	1,420	574	29	34
6	61	67	110	125	142	152	271	1,120	1,440	570	28	46
7	61	67	110	126	143	154	271	1,240	1,460	564	27	46
8	61	67	110	127	144	159	262	1,380	1,270	557	27	45
9	61	67	110	127	145	160	257	1,520	1,110	550	26	45
10	61	67	111	128	146	160	303	1,760	969	544	27	45
11	61	67	111	128	147	161	325	2,150	811	537	26	45
12	61	67	112	129	148	161	329	2,210	764	526	26	46
13	62	67	113	129	148	162	334	2,040	835	200	26	46
14	62	80	114	130	149	162	351	1,970	964	70	26	46
15	62	96	115	130	149	163	369	1,840	1,100	70	27	46
16	62	98	115	131	150	163	375	1,680	1,240	70	26	46
17	63	98	115	131	150	164	387	1,630	1,270	70	26	45
18	63	99	116	131	150	165	421	1,560	1,280	66	27	45
19	63	100	117	132	150	166	468	1,560	1,220	71	26	45
20	63	101	117	132	150	168	524	1,640	1,160	70	27	45
21	63	102	118	132	151	170	546	1,540	1,090	70	27	45
22	64	103	118	133	151	170	534	1,260	1,020	70	27	45
23	64	104	119	134	151	171	557	1,090	902	70	27	45
24	64	104	119	135	151	171	639	1,050	786	70	27	45
25	64	105	120	135	151	172	809	1,010	693	65	27	44
26	64	105	120	136	151	172	1,030	987	752	31	27	44
27	64	105	120	137	151	172	1,290	1,090	667	30	27	44
28	64	106	121	138	152	173	1,240	1,280	568	29	27	44
29	65	108	121	139	-----	175	1,060	1,500	588	29	27	44
30	65	108	122	140	-----	200	906	1,720	490	29	27	39
31	65	-----	122	140	-----	380	-----	1,850	-----	29	27	-----
TOTAL	1,933	2,590	3,562	4,054	4,126	5,312	15,420	44,543	32,379	7,889	840	1,261
MEAN	62.4	86.3	115	131	147	171	514	1,437	1,079	254	27.1	42.0
MAX	65	108	122	140	152	380	1,290	2,210	1,780	590	29	46
MIN	59	66	108	123	140	152	257	852	490	29	26	26
AC-FT	3,830	5,140	7,070	8,040	8,180	10,540	30,590	88,350	64,220	15,650	1,670	2,500

CAL YR 1973 TOTAL 96,505 MEAN 264 MAX 1,750 MIN 39 AC-FT 191,400
WTR YR 1974 TOTAL 123,909 MEAN 339 MAX 2,210 MIN 26 AC-FT 245,800

NOTE.--No gage-height record Nov. 16 to Apr. 2.

BEAR RIVER BASIN

199

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 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi² (4,185 km²), revised.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,880.8 m), from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--31 years, 205 ft³/s (5.806 m³/s), 148,500 acre-ft/yr (183 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,600 ft³/s (45.3 m³/s) May 14, gage height, 6.91 ft (2.106 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 10.

Period of record: Maximum discharge, 2,660 ft³/s (75.3 m³/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft³/s (0.045 m³/s) Nov. 12, 1961.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km²) above station. Flow regulated by Woodruff Narrows Reservoir beginning January 1962 (see sta 10020200).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	117	140	136	207	198	356	1,130	901	304	102	21
2	116	117	140	124	210	198	399	1,040	1,080	251	93	20
3	116	117	140	137	206	198	425	958	1,190	256	103	18
4	115	117	137	150	207	198	420	970	1,170	308	108	16
5	116	121	140	166	205	198	406	1,040	1,140	325	103	16
6	117	115	150	168	204	213	402	1,100	1,120	315	96	15
7	116	123	150	181	204	225	391	1,120	1,180	272	95	15
8	115	124	150	181	203	235	379	1,140	1,190	264	88	15
9	117	121	163	180	203	245	379	1,190	1,220	268	81	15
10	120	114	137	181	203	255	383	1,230	1,230	247	88	14
11	121	108	134	178	203	260	397	1,280	1,050	244	85	15
12	115	104	154	176	203	270	450	1,340	883	258	81	15
13	109	101	160	173	203	290	453	1,440	826	277	79	16
14	109	97	148	170	203	300	458	1,570	710	284	72	17
15	115	86	138	168	203	308	458	1,520	726	254	67	18
16	110	90	126	168	203	317	467	1,360	782	260	64	18
17	109	104	135	165	203	330	470	1,280	781	265	54	23
18	109	116	164	165	201	338	475	1,240	697	291	52	20
19	109	131	150	162	201	303	487	1,200	717	275	49	21
20	109	138	172	165	201	222	519	1,160	768	270	33	49
21	109	145	150	162	201	196	558	1,090	762	241	47	35
22	108	131	150	175	201	178	594	1,080	736	217	45	36
23	108	130	150	177	201	165	600	1,100	630	209	43	38
24	107	130	150	178	200	152	606	1,010	582	190	41	38
25	107	130	150	200	199	145	634	808	523	181	36	39
26	108	130	150	207	199	147	699	697	441	162	32	39
27	108	130	140	206	199	145	788	630	418	151	29	40
28	109	130	150	201	199	149	908	616	410	143	26	33
29	110	130	150	196	-----	151	1,000	616	372	133	25	33
30	110	130	150	205	-----	232	1,100	678	344	126	23	36
31	112	-----	150	205	-----	323	-----	755	-----	119	23	-----
TOTAL	3,476	3,577	4,568	5,406	5,675	7,084	16,061	33,388	24,579	7,360	1,963	744
MEAN	112	119	147	174	203	229	535	1,077	819	237	63.3	24.8
MAX	121	145	172	207	210	338	1,100	1,570	1,230	325	108	49
MIN	107	86	126	124	199	145	356	616	344	119	23	14
AC-FT	6,890	7,090	9,060	10,720	11,260	14,050	31,860	66,230	48,750	14,600	3,890	1,480
CAL YR 1973	TOTAL	97,969	MEAN	268	MAX	1,460	MIN	65	AC-FT	194,300		
WTR YR 1974	TOTAL	113,881	MEAN	312	MAX	1,570	MIN	14	AC-FT	225,900		

BEAR RIVER BASIN

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 (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²), revised.

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m), from river-profile map. Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

EXTREMES.--Current season: Maximum discharge, 1,330 ft³/s (37.7 m³/s) May 17, gage height, 8.09 ft (2.466 m); minimum daily, 28 ft³/s (0.79 m³/s) Sept. 9-13.

Period of record: Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft³/s (0.008 m³/s) Aug. 21, 1961.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1,060	648	272	166	36
2								1,070	713	267	163	37
3								1,040	772	258	142	35
4								994	921	255	150	33
5								998	969	265	153	31
6								1,040	977	245	138	31
7								1,070	980	235	118	30
8								1,090	977	290	116	29
9								1,080	1,030	303	117	28
10								1,020	1,160	306	116	28
11								1,040	1,230	383	120	28
12								1,070	1,160	351	117	28
13								1,090	948	342	116	28
14								1,110	861	351	105	29
15								1,140	783	349	102	29
16								1,170	772	331	95	30
17							514	1,260	742	336	92	33
18							520	1,250	675	349	87	38
19							537	1,130	687	370	81	36
20							553	1,120	680	366	78	38
21							605	1,100	696	346	73	50
22							637	1,070	699	315	68	52
23							651	1,060	677	300	64	54
24							675	1,050	594	269	62	56
25							680	1,000	386	258	60	54
26							718	872	383	246	55	53
27							783	764	425	225	51	52
28							861	687	379	195	45	53
29					-----		934	632	314	194	41	47
30					-----		988	537	269	185	41	46
31		-----			-----		-----	588	-----	175	36	-----
TOTAL								31,202	22,507	8,932	2,968	1,162
MEAN								1,007	750	288	95.7	38.7
MAX								1,260	1,230	383	166	60
MIN								537	269	175	36	28
AC-FT								61,890	44,640	17,720	5,890	2,300

THE SEASON AC-FT 66,771

BEAR RIVER BASIN

201

10032000 SMITHS FORK NEAR BORDER, WYO.

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6.0 mi (10 km) downstream from Hobbie Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi² (427 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (2,036 m), from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--32 years, 198 ft³/s (5.607 m³/s), 143,500 acre-ft/yr (177 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) May 30, gage height, 4.79 ft (1.460 m); minimum, 32 ft³/s (0.91 m³/s) Mar. 21.

Period of record: Maximum discharge, 1,610 ft³/s (45.6 m³/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum recorded, 32 ft³/s (0.91 m³/s) Mar. 21, 1974, result of freezeup.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (81 hm²) above station.

REVISIONS (WATER YEARS)--WSP 1734: 1952(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	87	69	64	60	54	58	515	1,000	500	209	132
2	91	75	68	64	62	56	59	621	1,010	493	218	131
3	90	75	66	64	60	53	57	642	1,030	469	225	131
4	89	73	64	64	60	53	56	605	1,030	436	211	129
5	87	71	62	64	60	55	53	676	1,080	411	205	124
6	87	76	66	64	60	55	57	747	1,060	392	200	123
7	86	79	69	64	60	56	57	793	969	376	202	122
8	87	88	68	64	60	55	57	870	854	358	200	121
9	90	84	69	64	60	54	62	828	774	344	194	119
10	89	78	64	64	60	55	66	878	750	331	192	115
11	86	76	61	64	60	54	64	749	769	320	186	115
12	86	78	68	64	60	54	67	709	828	307	181	117
13	84	80	67	64	60	55	63	678	907	298	180	116
14	83	76	69	66	60	57	64	626	983	290	176	114
15	82	75	68	68	60	57	70	572	1,020	283	173	110
16	81	75	68	68	60	56	80	522	1,030	298	170	108
17	79	76	65	68	60	57	91	506	1,020	285	166	107
18	79	76	65	68	60	59	116	544	1,000	271	163	105
19	78	73	64	68	58	58	147	571	957	272	161	102
20	78	66	63	68	59	57	169	614	920	268	160	102
21	77	72	64	65	55	58	164	577	871	262	160	102
22	77	71	64	66	56	57	179	545	814	257	156	101
23	76	77	64	64	56	54	248	538	765	249	152	100
24	78	76	63	64	56	54	347	535	725	247	151	97
25	76	73	64	62	56	57	477	579	693	239	149	97
26	74	64	64	64	56	58	597	665	665	233	146	96
27	73	68	64	63	56	60	499	821	626	228	144	97
28	74	68	64	61	56	63	420	971	589	225	142	96
29	74	71	64	58	-----	61	397	1,110	553	221	140	94
30	72	68	64	59	-----	60	439	1,110	523	218	138	93
31	78	-----	64	59	-----	60	-----	1,040	-----	215	136	-----
TOTAL	2,533	2,245	2,026	1,991	1,646	1,752	5,280	21,757	25,815	9,596	5,386	3,316
MEAN	81.7	74.8	65.4	64.2	58.8	56.5	176	702	861	310	174	111
MAX	92	88	69	68	62	63	597	1,110	1,080	500	225	132
MIN	72	64	61	58	55	53	53	506	523	215	136	93
AC-FT	5,020	4,450	4,020	3,950	3,260	3,480	10,470	43,160	51,200	19,030	10,680	6,580

CAL YR 1973 TOTAL 55,872 MEAN 153 MAX 795 MIN 54 AC-FT 110,800
WTR YR 1974 TOTAL 83,343 MEAN 228 MAX 1,110 MIN 53 AC-FT 165,300

BEAR RIVER BASIN

203

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 mi (0.3 km) west of Wyoming-Idaho State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--37 years, 426 ft³/s (12.06 m³/s), 308,600 acre-ft/yr (381 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft³/s (57.8 m³/s) May 11, gage height, 7.15 ft (2.179 m); minimum daily, 130 ft³/s (3.68 m³/s) Sept. 21.

Period of record: Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum daily, 30 ft³/s (0.85 m³/s) Aug. 18-22, 1940.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 122,000 acres (494 km²) above station. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	281	330	310	330	350	612	1,620	1,520	708	326	137
2	270	281	330	310	330	360	662	1,840	1,580	697	319	134
3	266	268	330	310	330	365	683	1,860	1,610	725	321	142
4	263	266	330	310	330	385	694	1,880	1,710	704	303	142
5	266	248	330	310	330	360	680	1,860	1,850	680	299	149
6	266	263	330	300	330	350	666	1,860	1,960	640	296	149
7	266	281	330	300	330	380	645	1,900	1,990	610	279	158
8	268	299	330	300	330	410	639	1,960	1,970	595	266	153
9	270	308	330	300	330	500	632	2,000	1,860	620	268	149
10	277	294	330	300	330	700	652	2,010	1,860	590	268	149
11	281	288	330	300	330	700	659	2,040	1,880	710	268	146
12	283	285	330	300	330	740	686	2,010	1,920	640	266	148
13	279	290	330	300	330	800	711	1,980	1,900	620	266	151
14	270	292	330	300	330	850	700	1,960	1,800	580	259	153
15	261	285	330	300	330	880	710	1,960	1,720	590	246	144
16	261	281	310	300	330	900	715	1,940	1,680	612	234	136
17	261	279	310	300	330	1,050	725	1,900	1,700	603	242	134
18	259	292	310	300	330	1,100	751	1,880	1,610	587	242	137
19	257	322	310	300	330	1,100	798	1,840	1,560	596	240	142
20	257	321	310	300	330	850	840	1,830	1,510	680	234	132
21	253	321	310	330	330	680	864	1,860	1,460	656	222	130
22	253	320	310	330	330	580	900	1,800	1,440	626	218	146
23	251	320	310	330	330	514	956	1,740	1,380	571	222	139
24	251	320	310	330	330	464	1,070	1,660	1,290	542	214	146
25	253	320	310	330	330	438	1,200	1,620	1,130	467	199	158
26	251	330	310	330	340	458	1,330	1,550	928	455	193	157
27	251	330	310	330	340	467	1,440	1,490	912	424	188	157
28	251	330	310	330	340	502	1,460	1,510	896	384	180	158
29	251	330	310	330	-----	495	1,530	1,560	820	348	175	153
30	253	330	310	330	-----	484	1,530	1,550	715	345	166	146
31	257	-----	310	330	-----	523	-----	1,520	-----	336	158	-----
TOTAL	8,128	8,975	9,910	9,680	9,270	18,736	26,110	55,990	46,161	17,941	7,577	4,375
MEAN	262	299	320	312	331	604	870	1,806	1,539	579	244	146
MAX	283	330	330	330	340	1,100	1,530	2,040	1,990	725	326	158
MIN	251	248	310	300	330	350	612	1,490	715	336	158	130
AC-FT	16,120	17,800	19,660	19,200	18,390	37,160	51,790	111,100	91,560	35,590	15,030	8,680
CAL YR 1973	TOTAL	174,006	MEAN	477	MAX	1,780	MIN	182	AC-FT	345,100		
WTR YR 1974	TOTAL	222,853	MEAN	611	MAX	2,040	MIN	130	AC-FT	442,000		

BEAR RIVER BASIN

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi² (293 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m), from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--25 years, 54.8 ft³/s (1.552 m³/s), 39,700 acre-ft/yr (49.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 617 ft³/s (17.5 m³/s) May 8, gage height, 3.15 ft (0.960 m); minimum, 9.4 ft³/s (0.27 m³/s) Nov. 20.

Period of record: Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	30	18	17	16	16	34	377	156	60	33	18
2	20	20	17	17	16	18	31	454	148	67	33	19
3	20	20	18	17	16	18	28	451	143	64	36	19
4	20	20	18	17	16	17	27	429	141	58	34	19
5	20	21	18	17	16	17	28	457	147	56	32	18
6	20	22	18	17	16	17	30	490	138	54	31	18
7	20	25	18	17	16	17	32	503	132	52	34	18
8	21	35	18	17	16	18	35	520	125	51	34	18
9	22	28	18	17	16	18	44	498	117	50	31	18
10	22	23	18	17	16	19	50	483	112	49	31	18
11	21	22	18	17	16	20	45	393	109	47	30	18
12	21	22	18	17	16	20	58	360	104	47	28	19
13	21	23	17	17	16	19	46	335	100	45	28	19
14	20	21	16	17	16	19	50	305	96	44	26	19
15	20	23	17	17	16	19	62	278	94	45	25	18
16	19	21	17	17	16	20	77	254	91	56	25	18
17	19	21	17	16	16	23	93	242	88	49	24	18
18	19	21	18	19	16	28	127	237	86	45	24	17
19	19	20	18	18	16	27	149	228	82	43	23	17
20	19	18	18	17	16	26	159	242	79	45	23	17
21	19	19	18	17	16	25	135	234	77	44	24	17
22	19	19	17	17	16	24	158	220	75	41	23	17
23	19	20	16	17	16	23	213	206	73	40	22	17
24	20	20	15	17	16	23	284	195	70	41	21	17
25	19	20	18	16	16	22	376	192	68	38	21	17
26	19	20	18	15	16	25	472	195	66	37	21	17
27	19	19	18	16	16	28	383	200	64	36	20	18
28	19	18	18	16	16	32	326	197	63	36	20	18
29	19	18	18	16	-----	30	306	192	61	35	20	18
30	19	18	18	16	-----	33	331	179	60	36	19	17
31	22	-----	18	16	-----	36	-----	166	-----	36	19	-----
TOTAL	616	647	545	521	448	697	4,189	9,712	2,965	1,447	815	536
MEAN	19.9	21.6	17.6	16.8	16.0	22.5	140	313	98.8	46.7	26.3	17.9
MAX	22	35	18	19	16	36	472	520	156	67	36	19
MIN	19	18	15	15	16	16	27	166	60	35	19	17
AC=FT	1,220	1,280	1,080	1,030	889	1,380	8,310	19,260	5,880	2,870	1,620	1,060

CAL YR 1973 TOTAL 18,404 MEAN 50.4 MAX 425 MIN 15 AC=FT 36,500
WTR YR 1974 TOTAL 23,138 MEAN 63.4 MAX 520 MIN 15 AC=FT 45,890

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
4-25	2400	3.00	552
5- 8	0100	3.15	617

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 mi (6.9 km) west of Moran, and at mile 1,000.2 (1,609.3 km).

DRAINAGE AREA.--807 mi² (2,090 km²), revised.

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 (0.634 m) lower. Prior to June 1, 1941, at site 300 ft (91 m) upstream at same datum.

EXTREMES.--Current year: Maximum contents, 852,100 acre-ft (1,050 hm³) July 3, elevation, 6,769.20 ft (2,063.252 m); minimum, 402,100 acre-ft (496 hm³) May 25, elevation, 6,750.41 ft (2,057.525 m).

Period of record: Maximum contents, 859,530 acre-ft (1,060 hm³) July 11, 1965, elevation, 6,769.49 ft (2,063.341 m); 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 (370 hm³). 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 (469 hm³). The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft (974 hm³). In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft (1,040 hm³) between elevations 6,730 ft (2,051 m), top of baffles to sluices, and 6,769 ft (2,063 m), 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-ft)

6,740	182,500
6,750	392,900
6,760	624,400
6,770	872,600

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606,900	607,400	625,600	633,500	645,800	651,100	663,700	493,200	474,300	849,300	794,500	657,100
2	606,000	607,900	625,600	633,500	646,200	651,100	662,900	490,200	483,900	851,300	791,000	650,800
3	605,200	608,100	625,600	633,700	646,500	651,300	661,200	488,100	496,200	852,100	787,000	645,500
4	604,800	608,100	625,800	634,000	646,500	652,500	658,800	487,200	509,100	851,600	783,700	639,800
5	604,500	608,100	625,800	634,200	647,400	652,800	655,900	486,000	523,500	851,300	780,500	633,700
6	604,300	609,300	625,800	634,200	647,900	653,500	652,800	484,600	541,000	850,300	777,200	627,700
7	604,500	611,700	626,000	634,500	647,900	657,600	649,600	480,700	552,500	850,300	773,900	622,200
8	604,800	612,600	626,000	634,700	647,900	657,600	646,700	476,400	558,400	850,000	770,900	615,800
9	605,700	613,800	626,000	634,700	648,200	657,800	642,600	472,900	561,000	849,500	767,200	610,000
10	605,500	614,100	626,000	634,900	648,200	657,800	638,100	471,800	563,800	849,000	763,200	605,500
11	605,200	614,300	626,300	634,900	648,400	658,100	631,800	468,100	568,300	847,500	759,000	602,100
12	605,200	615,000	626,500	635,400	648,400	658,600	627,000	463,100	576,800	845,400	755,000	599,000
13	604,800	616,200	627,000	636,100	648,400	658,600	620,800	458,700	590,300	842,600	750,800	596,900
14	605,000	616,900	627,500	637,300	648,400	659,100	614,600	452,100	606,900	840,600	746,500	595,000
15	605,000	617,400	628,000	637,300	648,400	659,500	608,400	445,800	627,200	838,300	742,300	593,100
16	605,200	617,900	628,000	637,800	648,600	660,000	602,100	439,200	649,100	836,300	737,900	591,200
17	605,200	618,600	628,200	638,500	648,600	660,000	595,700	432,600	671,400	834,200	733,700	589,600
18	605,200	619,800	629,600	638,800	648,900	660,500	589,300	426,100	692,100	832,200	729,500	588,400
19	605,200	621,500	629,900	641,700	649,600	661,000	582,400	420,900	713,000	830,200	725,000	587,700
20	605,200	622,000	629,900	642,900	650,300	661,500	576,000	417,100	733,200	827,900	720,800	587,200
21	605,000	622,200	629,900	643,300	650,600	661,700	569,900	413,000	754,800	825,800	716,400	586,700
22	605,000	622,400	629,900	643,300	650,600	661,700	563,100	410,100	771,900	823,300	711,500	586,700
23	605,000	622,900	629,900	643,300	650,600	662,200	555,600	405,200	789,000	820,800	706,600	586,700
24	605,000	623,400	629,900	643,300	650,800	662,700	547,800	402,500	802,800	818,000	701,200	587,000
25	605,200	623,600	630,600	643,600	650,800	663,200	539,200	402,100	814,400	815,700	696,000	587,200
26	605,500	623,900	630,600	643,600	651,100	663,900	531,400	406,300	822,800	814,000	691,200	587,200
27	605,200	624,400	630,800	643,800	651,100	664,100	524,000	413,500	828,600	810,200	685,500	587,700
28	605,200	624,800	632,500	643,800	651,100	664,100	516,500	425,200	832,700	807,400	679,900	587,000
29	605,500	625,100	633,000	644,300	-----	664,900	507,700	441,400	837,300	804,800	674,600	586,700
30	605,500	625,300	633,200	644,300	-----	664,400	499,200	455,800	843,200	800,800	669,000	586,700
31	605,500	-----	633,500	644,300	-----	664,100	-----	466,500	-----	797,500	662,900	-----
MAX	606,900	625,300	633,500	644,300	651,100	664,900	663,700	493,200	843,200	852,100	794,500	657,100
MIN	604,300	607,400	625,600	633,500	645,800	651,100	499,200	402,100	474,300	797,500	662,900	586,700
(†)	6,759.21	6,760.04	6,760.38	6,760.83	6,761.11	6,761.65	6,754.68	6,753.26	6,768.85	6,767.05	6,761.60	6,758.42
(‡)	-1,900	+19,800	+8,200	+10,800	+6,800	+13,000	-164,900	-32,700	+376,700	-45,700	-134,600	-76,200

CAL YR 1973‡ +17,700

WTR YR 1974‡ -20,700

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

PACIFIC CREEK BASIN

207

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 (2 m) upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5 (0.8 km).

DRAINAGE AREA.--169 mi² (438 km²), revised. Mean altitude, 8,160 ft (2,490 m).

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 (2,050 m), from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi (0.6 km) downstream at different datum. July 20, 1917, to Sept. 30, 1918, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Sept. 23, 1944, to Nov. 13, 1959, at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--30 years (1944-74), 270 ft³/s (7.646 m³/s), 22.92 in/yr (582 mm/yr), 195,600 acre-ft/yr (241 hm³/yr); 15-year base period (1952-67), 258 ft³/s (7.307 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,790 ft³/s (107 m³/s) June 15, gage height, 6.27 ft (1.911 m); minimum daily, 46 ft³/s (1.30 m³/s) Oct. 5, 6, 7.

Period of record: Maximum discharge, 3,790 ft³/s (107 m³/s) June 15, 1974; maximum gage height, 6.35 ft (1.935 m) June 23, 1971; minimum daily discharge, 22 ft³/s (0.62 m³/s) 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	60	64	55	57	63	69	393	1,840	1,540	124	72
2	52	69	62	50	57	64	69	472	2,030	1,420	130	74
3	50	68	60	54	57	66	69	505	2,230	1,330	148	71
4	48	66	54	55	57	62	69	518	2,510	1,250	137	71
5	46	64	48	56	57	63	67	635	2,790	1,210	147	71
6	46	64	47	56	55	63	67	763	2,400	1,160	117	70
7	46	64	51	56	54	63	67	808	1,920	1,100	147	70
8	50	65	52	56	54	63	67	919	1,560	1,040	174	69
9	52	65	52	56	56	63	69	965	1,480	956	126	68
10	50	65	50	56	56	63	71	984	1,690	901	152	68
11	49	65	49	56	57	64	71	781	1,990	808	111	69
12	49	71	50	56	58	64	71	893	2,360	702	85	73
13	49	71	52	58	58	64	71	868	2,660	610	74	75
14	48	69	52	60	58	64	71	594	2,970	548	89	74
15	48	69	53	65	58	64	71	532	3,110	505	83	75
16	48	69	54	69	59	65	71	505	3,250	505	83	76
17	48	71	54	72	59	68	76	540	3,210	453	70	72
18	48	71	54	71	59	70	92	627	3,230	410	65	71
19	48	69	53	63	59	70	110	826	3,160	393	63	69
20	48	66	50	61	59	70	124	835	3,070	364	62	69
21	48	65	52	59	58	69	130	728	2,790	353	67	70
22	48	65	54	58	58	66	130	851	2,470	305	66	69
23	48	64	54	57	57	66	173	885	2,470	261	65	69
24	49	64	54	57	56	65	238	873	2,480	261	67	69
25	52	62	54	57	58	65	331	1,120	2,430	221	67	70
26	52	58	55	57	60	67	447	1,410	2,280	198	67	71
27	51	60	56	57	62	67	410	1,860	1,990	182	69	73
28	51	58	56	57	62	69	353	2,400	1,810	167	71	71
29	51	61	56	57	-----	69	316	2,400	1,690	158	70	70
30	52	63	56	57	-----	69	337	2,020	1,620	142	69	70
31	54	-----	56	57	-----	69	-----	1,700	-----	136	71	-----
TOTAL	1,533	1,961	1,664	1,811	1,615	2,037	4,377	29,410	71,490	19,589	2,936	2,129
MEAN	49.5	65.4	53.7	58.4	57.7	65.7	146	949	2,383	632	94.7	71.0
MAX	54	71	64	72	62	70	447	2,400	3,250	1,540	174	76
MIN	46	58	47	50	54	62	67	393	1,480	136	62	68
CFSM	.29	.39	.32	.35	.34	.34	.86	5.62	14.1	3.74	.56	.42
IN.	.34	.43	.37	.40	.36	.45	.96	6.47	15.74	4.31	.65	.47
AC-FT	3,040	3,890	3,300	3,590	3,200	4,040	8,680	58,330	141,800	38,850	5,820	4,220

CAL YR 1973 TOTAL 60,013 MEAN 164 MAX 1,460 MIN 46 CFSM .97 IN 13.21 AC-FT 119,000
WTR YR 1974 TOTAL 140,552 MEAN 385 MAX 3,250 MIN 46 CFSM 2.28 IN 30.94 AC-FT 278,800

PEAK DISCHARGE (BASE, 1,300 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-29	0100	5.71	2,870
6- 4	0100	5.87	3,230
6-15	2200	6.27	3,790

BUFFALO FORK BASIN

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WYO.

LOCATION.--Lat 43°50'14", long 110°26'21", in SE4NE4 sec.29, T.45 N., R.113 W., Teton County, Grand Teton National Park, on right bank, underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--323 mi² (837 km²), revised.

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 mi (6 km) downstream.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m) above mean sea level (U.S. Bureau of Public Roads bench mark).

AVERAGE DISCHARGE.--9 years (1965-74), 593 ft³/s (16.79 m³/s), 429,600 acre-ft/yr (530 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,020 ft³/s (170 m³/s) June 19, gage height, 7.91 ft (2.411 m); minimum daily, 107 ft³/s (3.03 m³/s) Feb. 7.

Period of record: Maximum discharge, 6,020 ft³/s (170 m³/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft³/s (2.32 m³/s) Jan. 28-31, 1969.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	195	158	120	112	116	125	408	2,280	4,000	860	345
2	173	190	160	110	112	120	125	490	2,700	3,580	832	345
3	175	180	158	115	112	120	126	474	3,110	3,230	794	336
4	173	175	145	120	112	118	124	470	3,210	2,960	783	330
5	171	170	130	123	112	112	122	564	3,300	3,050	750	324
6	165	170	135	125	110	112	120	721	2,850	3,020	720	318
7	163	170	140	125	107	112	118	805	2,410	2,780	725	312
8	165	173	145	125	110	112	115	950	1,990	2,700	750	303
9	170	175	140	125	110	112	121	970	1,810	2,630	675	295
10	165	175	135	120	110	112	131	998	2,070	2,680	670	288
11	165	177	130	120	110	115	126	820	2,510	2,510	615	290
12	165	177	135	120	110	116	131	726	3,130	2,190	591	295
13	165	177	135	120	110	118	126	703	3,960	2,080	564	290
14	165	173	135	125	110	120	124	636	4,780	2,020	605	282
15	165	172	135	130	110	120	122	568	5,240	1,890	564	278
16	165	170	135	135	110	120	130	514	5,640	1,980	528	272
17	164	170	132	134	110	122	145	538	5,670	1,720	510	268
18	162	170	130	135	112	123	161	600	5,780	1,650	490	265
19	161	170	130	130	112	121	188	795	5,810	1,470	482	260
20	160	170	125	125	112	120	188	880	5,780	1,550	462	258
21	160	168	130	122	112	120	190	740	5,730	1,450	458	255
22	160	168	130	120	112	120	186	658	5,220	1,460	434	252
23	160	163	130	118	112	120	225	672	5,110	1,400	416	250
24	160	162	130	115	112	120	280	795	5,110	1,250	409	248
25	170	160	125	113	112	122	390	1,030	5,220	1,220	398	250
26	170	155	128	110	112	123	502	1,290	5,170	1,140	392	248
27	170	150	130	110	112	125	446	2,040	4,830	1,070	384	248
28	170	150	130	110	113	125	381	2,700	4,480	1,020	374	248
29	170	152	130	110	-----	125	330	3,110	4,290	944	367	245
30	170	155	130	110	-----	125	357	2,660	4,220	914	360	235
31	170	-----	128	110	-----	125	-----	2,090	-----	920	351	-----
TOTAL	5,160	5,082	4,189	3,734	3,110	3,691	5,955	31,415	123,400	62,478	17,313	8,433
MEAN	166	169	135	120	111	119	199	1,015	4,113	2,015	558	281
MAX	175	195	160	138	113	125	502	3,110	5,810	4,000	860	345
MIN	160	150	125	110	107	112	115	408	1,810	914	351	235
CFSM	.51	.52	.42	.37	.34	.37	.62	3.14	12.7	6.24	1.73	.87
IN.	.59	.59	.48	.43	.36	.43	.69	3.62	14.21	7.20	1.99	.97
AC-FT	10,230	10,080	8,310	7,410	6,170	7,320	11,810	62,310	244,800	123,900	34,340	16,730

CAL YR 1973 TOTAL 152,753 MEAN 419 MAX 3,830 MIN 100 CFSM 1.30 IN 17.59 AC-FT 303,000
 WTR YR 1974 TOTAL 273,960 MEAN 751 MAX 5,810 MIN 107 CFSM 2.33 IN 31.55 AC-FT 543,400

PEAK DISCHARGE (BASE, 3,100 FT³/S)

DATE	TIME	G.H.T.	DISCHARGE
5-29	0500	5.88	3,370
6-4	0500	5.98	3,500
6-19	1130	7.91	6,020

SNAKE RIVER MAIN STEM

209

13016100 SNAKE RIVER NEAR WILSON, WYO.

LOCATION.--Lat 43°29'57", long 110°50'16", in NW¼SW¼ sec.24, T.41 N., R.117 W., Teton County, on left bank 45 ft (14 m) upstream from State Highway 22 bridge, about 3.5 mi (5.6 km) upstream from Fish Creek, 1.5 mi (2.4 km) east of Wilson, and at mile 961.2 (1,546.6 km).

DRAINAGE AREA.--2,342 mi² (6,066 km²), revised.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,160 ft (1,878 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 19,300 ft³/s (547 m³/s) June 18, gage height, 12.74 ft (3.883 m); maximum gage height, 12.83 ft (3.911 m) June 5, 6; minimum daily discharge, 820 ft³/s (23.2 m³/s) Jan. 2.

Period of record: Maximum discharge, 19,300 ft³/s (547 m³/s) June 18, 1974, gage height, 12.74 ft (3.883 m); maximum gage height, 12.83 ft (3.911 m) June 5, 6, 1974; minimum daily discharge, 820 ft³/s (23.2 m³/s) Jan. 2, 1974.

REMARKS.--Records good. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,040	1,540	1,220	900	971	1,010	2,040	5,580	11,500	12,400	5,490	4,800
2	1,950	1,310	1,260	820	875	1,140	2,200	5,070	11,900	12,700	5,390	4,770
3	1,800	1,260	1,190	880	888	1,110	2,340	5,050	13,000	12,100	5,360	4,750
4	1,670	1,260	1,170	930	888	1,050	2,460	4,770	13,800	11,500	5,330	4,720
5	1,470	1,260	1,140	960	914	1,040	2,720	5,120	14,200	11,100	5,300	4,640
6	1,400	1,320	1,180	980	915	1,070	2,820	6,150	14,400	10,800	5,210	4,610
7	1,350	1,500	1,220	980	915	1,020	2,800	7,500	14,300	10,200	5,500	4,600
8	1,520	1,580	1,200	980	920	1,010	2,890	8,040	13,900	9,900	5,500	4,550
9	1,580	1,630	1,140	980	930	1,000	3,260	8,230	13,200	9,590	5,350	4,340
10	1,520	1,520	1,100	1,000	940	1,010	3,620	8,550	13,100	9,560	5,280	3,680
11	1,460	1,490	1,070	1,020	950	1,010	4,150	8,410	13,400	9,370	5,160	3,350
12	1,410	1,630	1,110	1,080	950	1,010	4,250	8,200	13,900	9,210	5,020	3,000
13	1,350	1,740	1,160	1,110	960	1,050	4,120	8,240	15,000	8,790	4,930	2,750
14	1,320	1,620	1,140	1,180	970	1,050	4,110	8,120	16,400	8,410	4,900	2,520
15	1,340	1,530	1,110	1,200	1,000	1,050	4,090	8,040	17,100	8,250	4,880	2,350
16	1,320	1,470	1,130	1,200	1,050	1,080	4,130	7,890	17,700	8,320	4,810	2,250
17	1,340	1,460	1,160	1,150	1,050	1,220	4,250	7,770	18,200	7,850	4,720	2,200
18	1,300	1,540	1,160	1,080	1,050	1,310	4,400	8,150	18,900	7,620	4,700	2,100
19	1,280	1,490	1,060	1,080	1,050	1,280	4,640	8,580	18,900	7,310	4,630	1,900
20	1,260	1,380	1,050	1,070	1,030	1,250	4,550	8,870	18,100	7,240	4,580	1,700
21	1,260	1,310	1,000	1,060	1,000	1,170	4,490	8,770	17,400	7,230	4,560	1,600
22	1,240	1,320	1,000	1,070	1,000	1,130	4,560	8,400	16,300	7,110	4,540	1,500
23	1,240	1,240	990	1,070	1,000	1,080	5,000	8,070	15,600	6,940	4,490	1,400
24	1,240	1,240	980	1,030	1,000	1,070	5,570	7,990	16,200	6,750	4,450	1,300
25	1,250	1,250	960	1,050	1,000	1,100	6,270	8,340	16,700	6,450	4,420	1,350
26	1,200	1,190	980	1,070	1,000	1,160	6,570	8,820	17,000	6,300	4,380	1,400
27	1,170	1,170	1,000	1,050	1,020	1,430	6,590	9,920	16,700	6,090	4,400	1,500
28	1,170	1,170	1,000	1,040	991	1,600	6,570	11,800	15,800	5,910	4,560	1,600
29	1,220	1,190	990	966	-----	1,800	6,460	13,300	14,300	5,770	4,700	1,600
30	1,210	1,250	960	1,010	-----	2,070	6,460	12,500	12,800	5,590	4,710	1,500
31	1,240	-----	940	967	-----	2,110	-----	11,200	-----	5,560	4,810	-----
TOTAL	43,120	41,860	33,770	31,993	27,227	37,490	128,380	255,840	459,700	261,920	152,060	84,330
MEAN	1,391	1,395	1,089	1,032	972	1,209	4,279	8,253	15,320	8,449	4,905	2,811
MAX	2,040	1,740	1,260	1,200	1,050	2,110	6,590	13,300	18,900	12,700	5,500	4,800
MIN	1,170	1,170	940	820	875	1,000	2,040	4,770	11,500	5,560	4,380	1,300
AC-FT	85,530	83,030	66,980	63,460	54,000	74,360	254,600	507,500	911,800	519,500	301,600	167,300

CAL YR 1973 TOTAL 959,421 MEAN 2,629 MAX 10,400 MIN 900 AC-FT 1,903,000
WTR YR 1974 TOTAL 1,557,690 MEAN 4,268 MAX 18,900 MIN 620 AC-FT 3,090,000

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 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--10 mi² (26 km²), approximately.

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

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

AVERAGE DISCHARGE.--12 years, 14.5 ft³/s (0.411 m³/s), 10,510 acre-ft/yr (13.0 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 116 ft³/s (3.29 m³/s) June 15, gage height, 3.80 ft (1.158 m); minimum daily, 3.4 ft³/s (0.096 m³/s) Mar. 10.

Period of record: Maximum discharge, 225 ft³/s (6.37 m³/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.7 ft³/s (0.076 m³/s) Jan. 5, 1971.

REMARKS.--Records fair except those for winter period, which are 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 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.6	4.5	4.4	4.3	3.7	3.7	16	46	52	20	11
2	5.4	4.5	4.5	4.2	4.3	3.9	3.7	18	51	49	20	11
3	5.2	4.7	4.5	4.3	4.3	3.7	3.6	20	58	47	22	11
4	5.2	5.0	4.4	4.4	4.3	3.7	3.7	20	58	45	21	11
5	5.2	5.3	4.3	4.4	4.3	3.6	3.7	24	68	43	20	11
6	5.2	5.5	4.4	4.4	4.2	3.5	3.7	27	56	42	20	10
7	5.2	5.1	4.5	4.4	4.2	3.5	3.7	30	45	41	21	10
8	6.3	5.4	4.5	4.4	4.3	3.5	3.7	32	36	40	20	10
9	5.7	5.3	4.5	4.4	4.3	3.5	3.7	33	32	38	20	10
10	5.4	5.0	4.4	4.5	4.4	3.4	3.9	35	33	37	18	10
11	5.4	5.1	4.3	4.5	4.4	3.5	3.9	31	37	36	18	10
12	5.4	5.1	4.3	4.5	4.4	3.5	3.9	29	46	35	17	10
13	5.3	4.9	4.3	4.5	4.3	3.5	4.1	29	63	33	17	10
14	5.2	4.8	4.3	4.5	4.1	3.5	4.1	27	82	32	17	9.6
15	5.2	4.9	4.3	4.5	4.1	3.5	4.5	26	100	32	16	9.2
16	5.2	4.9	4.3	4.7	4.1	3.7	4.5	24	107	31	16	9.2
17	5.1	5.0	4.5	4.7	4.1	4.1	5.2	26	102	30	15	9.2
18	5.0	4.9	4.5	4.5	3.9	4.1	5.7	29	109	29	15	8.9
19	5.0	4.9	4.3	4.5	3.9	4.0	6.5	31	105	28	14	8.6
20	5.0	4.8	4.4	4.5	3.9	3.8	7.1	31	98	28	14	8.6
21	5.0	4.7	4.5	4.5	3.9	3.7	7.1	29	88	27	14	8.6
22	5.0	4.7	4.5	4.4	3.8	3.8	8.4	27	82	26	13	8.6
23	4.9	4.8	4.3	4.5	3.7	3.9	8.8	28	76	25	13	8.6
24	5.0	4.8	4.3	4.5	3.6	3.9	12	30	72	25	13	8.6
25	4.9	4.9	4.5	4.5	3.6	3.9	15	34	71	24	12	8.6
26	4.8	5.1	4.3	4.5	3.6	3.9	18	44	66	23	12	8.2
27	4.7	5.3	4.4	4.5	3.7	3.9	18	60	61	22	12	8.9
28	4.7	5.3	4.5	4.3	3.7	3.9	15	72	57	22	12	8.6
29	4.9	4.6	4.5	4.5	-----	3.7	13	74	56	22	12	8.6
30	4.7	4.5	4.5	4.3	-----	3.9	14	51	54	22	11	8.6
31	4.6	-----	4.5	4.3	-----	3.9	-----	44	-----	21	11	-----
TOTAL	159.2	148.4	136.8	138.0	113.7	115.6	215.9	1,031	2,015	1,007	496	284.2
MEAN	5.14	4.95	4.41	4.45	4.06	3.73	7.20	33.3	67.2	32.5	16.0	9.47
MAX	6.3	5.5	4.5	4.7	4.4	4.1	18	74	109	52	22	11
MIN	4.6	4.5	4.3	4.2	3.6	3.4	3.6	16	32	21	11	8.2
AC-FT	316	294	271	274	226	229	428	2,040	4,000	2,000	984	564

CAL YR 1973 TOTAL 3,471.4 MEAN 9.51 MAX 42 MIN 3.8 AC-FT 6,890
WTR YR 1974 TOTAL 5,860.8 MEAN 16.1 MAX 109 MIN 3.4 AC-FT 11,620

PEAK DISCHARGE (BASE, 52 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
5-28	2000	3.63	87
6- 5	2000	3.58	79
6-15	2000	3.80	116

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, and at mile 928.0 (1.493.2 km).

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

AVERAGE DISCHARGE.--22 years (1937-38, 1953-74), 4,623 ft³/s (130.8 m³/s), 3,349,000 acre-ft (4,130 hm³/yr).

Period of record: Maximum discharge, 28,600 ft³/s (810 m³/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft³/s (21.0 m³/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,480	2,250	1,860	1,500	1,600	1,680	2,750	10,200	17,400	17,000	7,170	5,880
2	2,410	2,070	1,900	1,570	1,600	1,690	2,830	10,000	18,100	17,400	7,090	5,680
3	2,300	1,940	1,600	1,530	1,600	1,860	2,910	9,700	19,800	16,900	7,030	5,870
4	2,200	1,900	1,800	1,500	1,650	1,720	3,060	9,130	21,000	15,900	6,880	5,820
5	2,100	1,880	1,700	1,550	1,600	1,730	3,260	9,810	22,800	15,400	6,790	5,710
6	2,000	1,970	1,660	1,750	1,550	1,770	3,350	11,400	23,700	15,200	6,600	5,660
7	1,980	2,180	1,750	1,830	1,580	1,730	3,230	13,400	20,900	14,300	6,990	5,630
8	2,070	2,380	1,800	1,830	1,550	1,700	3,160	15,300	18,600	13,800	7,230	5,590
9	2,180	2,380	1,700	1,800	1,600	1,690	3,340	15,300	16,600	13,600	6,990	5,520
10	2,110	2,230	1,650	1,700	1,620	1,660	3,760	16,500	16,300	13,200	6,920	4,850
11	2,050	2,150	1,700	1,700	1,660	1,660	5,280	14,800	17,100	13,100	6,710	4,530
12	2,000	2,240	1,700	1,730	1,660	1,670	5,760	13,400	18,500	12,600	6,480	4,170
13	1,970	2,410	1,700	1,760	1,660	1,670	5,560	13,200	20,500	12,000	6,370	3,880
14	1,930	2,280	1,700	1,800	1,660	1,680	5,570	12,400	23,000	11,300	6,400	3,590
15	1,920	2,170	1,700	1,820	1,690	1,680	5,660	11,700	25,300	11,000	6,370	3,440
16	1,920	2,100	1,700	1,850	1,670	1,750	5,550	10,600	27,600	11,400	6,200	3,430
17	1,920	2,090	1,700	1,880	1,700	1,990	6,280	10,300	28,200	10,800	6,080	3,330
18	1,900	2,160	1,720	1,800	1,670	2,180	5,670	10,400	28,200	10,400	6,000	3,050
19	1,880	2,110	1,680	1,750	1,730	2,080	7,320	11,700	28,800	9,960	5,920	2,880
20	1,860	2,000	1,600	1,700	1,680	1,890	7,680	12,400	27,100	9,810	5,870	2,660
21	1,870	1,980	1,650	1,680	1,640	1,830	7,880	11,900	25,100	9,740	5,920	2,520
22	1,860	1,960	1,630	1,680	1,700	1,840	7,720	10,500	22,200	9,510	5,820	2,370
23	1,860	1,890	1,600	1,700	1,640	1,790	8,670	9,920	20,600	9,260	5,740	2,230
24	1,850	1,880	1,580	1,700	1,660	1,730	9,590	10,100	21,400	9,090	5,670	2,140
25	1,860	1,870	1,550	1,640	1,670	1,760	11,300	11,100	23,100	8,540	5,620	2,090
26	1,870	1,870	1,550	1,600	1,690	1,820	12,900	12,400	24,000	8,280	5,570	2,100
27	1,840	1,840	1,550	1,600	1,670	2,070	12,500	15,100	23,500	8,010	5,740	2,220
28	1,820	1,860	1,600	1,600	1,660	2,350	11,200	17,300	21,700	7,750	5,950	2,310
29	1,840	1,850	1,680	1,600	-----	2,440	10,300	22,700	19,700	7,590	5,950	2,320
30	1,850	1,860	1,640	1,600	-----	2,650	10,600	21,200	17,900	7,430	5,900	2,290
31	1,870	-----	1,600	1,600	-----	2,840	-----	17,800	-----	7,290	5,950	-----
TOTAL	61,570	61,750	52,150	52,570	45,980	58,640	195,960	402,060	658,100	357,360	195,920	113,960
MEAN	1,986	2,058	1,682	1,696	1,642	1,898	6,532	12,970	21,940	11,530	6,320	3,799
MAX	2,480	2,410	1,900	1,880	1,730	2,840	12,900	22,700	28,200	17,400	7,230	5,880
MIN	1,820	1,840	1,550	1,500	1,500	1,660	2,750	9,130	16,300	7,290	5,570	2,090
AC-FT	122,100	122,500	103,400	104,300	91,200	116,700	388,700	797,500	1,305M	708,600	388,600	226,000
CAL YR 1973	TOTAL	1,311,230	MEAN	3,552	MAX	14,400	MIN	1,400	AC-FT	2,601,000		
WTR YR 1974	TOTAL	2,256,220	MEAN	6,181	MAX	28,200	MIN	1,500	AC-FT	4,475,000		

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 mi (5 km) upstream from mouth, and 3.6 mi (5.8 km) southeast of Alpine.

DRAINAGE AREA.--448 mi² (1,160 km²). Mean altitude, 8,080 ft (2,460 m).

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 (1,740 m), 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 mi (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

AVERAGE DISCHARGE.--22 years (1937-38, 1953-74), 663 ft³/s (18.78 m³/s), 20.09 in/yr (510 mm/yr), 480,300 acre-ft/yr (592 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,220 ft³/s (148 m³/s) June 6, gage height, 5.97 ft (1.820 m); minimum daily, 200 ft³/s (5.66 m³/s) Jan. 3.

Period of record: Maximum discharge observed, 7,230 ft³/s (205 m³/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m), former site and datum, about Dec. 18, 1965 (ice jam); minimum discharge, 111 ft³/s (3.14 m³/s) Dec. 7, 1960, gage height, 2.45 ft (0.747 m), former site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Less than 500 acres (202 hm²) irrigated by diversions from Greys River and tributaries above station.

REVISIONS (WATER YEAR).--WRD Idaho 1967: 1966.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	405	310	235	255	240	342	1,800	3,320	2,190	773	484
2	342	330	310	220	255	240	330	2,190	3,380	2,170	773	480
3	342	310	280	200	255	240	322	2,170	3,460	2,040	773	480
4	338	306	260	210	255	235	310	2,090	3,500	1,840	716	470
5	334	294	235	220	250	230	306	2,390	4,100	1,780	710	465
6	330	326	240	225	250	230	322	2,720	4,430	1,720	673	460
7	330	350	260	225	250	230	330	2,910	3,660	1,660	729	455
8	350	400	255	220	250	230	330	3,090	3,170	1,610	704	455
9	355	400	230	220	250	226	371	3,580	2,870	1,540	667	451
10	342	350	220	225	250	222	437	3,320	2,830	1,500	662	446
11	334	340	230	230	250	222	428	3,240	2,980	1,460	644	442
12	334	340	240	250	250	226	460	2,420	3,270	1,400	627	446
13	330	340	250	265	250	226	428	2,310	3,540	1,340	639	446
14	330	330	250	240	250	237	442	2,030	3,840	1,300	616	442
15	326	320	250	245	250	230	504	1,870	3,990	1,270	594	432
16	326	320	260	240	250	237	627	1,700	4,050	1,170	583	423
17	322	330	270	240	250	279	792	1,680	4,010	1,100	572	423
18	314	330	270	250	250	334	986	1,690	4,080	1,050	561	419
19	310	330	270	270	250	330	1,130	2,060	3,890	1,020	556	432
20	310	330	260	260	245	240	1,170	2,090	3,820	1,000	561	423
21	310	320	275	260	240	275	1,040	1,880	3,710	965	578	419
22	310	320	270	260	240	310	1,090	1,740	3,460	923	551	419
23	306	320	270	260	240	290	1,430	1,750	3,230	903	540	410
24	314	305	265	260	235	263	1,760	1,760	3,130	890	530	432
25	310	295	260	260	230	279	2,210	2,320	3,060	870	525	428
26	298	280	250	260	235	306	2,440	2,710	2,920	850	514	432
27	290	270	255	260	230	318	1,920	3,330	2,700	830	509	442
28	298	280	265	260	230	334	1,460	3,680	2,530	824	504	442
29	298	290	260	260	-----	322	1,300	3,920	2,430	818	499	437
30	298	305	260	260	-----	326	1,500	3,060	2,310	804	494	437
31	314	-----	250	260	-----	363	-----	3,330	-----	785	489	-----
TOTAL	9,995	9,766	8,030	7,760	6,895	8,320	26,517	77,830	101,670	39,622	18,866	13,272
MEAN	322	326	259	250	246	268	884	2,511	3,389	1,278	609	442
MAX	355	405	310	240	255	363	2,440	3,920	4,430	2,190	773	484
MIN	240	270	220	200	230	222	306	1,680	2,310	785	489	410
CFSM	.72	.73	.58	.56	.55	.60	1.97	5.60	7.56	2.85	1.36	.99
IN.	.83	.81	.67	.64	.57	.69	2.20	6.46	8.44	3.29	1.57	1.10
AC-FT	19,830	19,370	15,930	15,330	13,680	16,500	22,600	154,400	201,700	78,590	37,420	26,330

CAL YR 1973 TOTAL 333,268 MEAN 913 MAX 4,820 MIN 180 CFSM 2.04 IN 27.67 AC-FT 661,000
WTR YR 1974 TOTAL 328,543 MEAN 900 MAX 4,430 MIN 200 CFSM 2.01 IN 27.28 AC-FT 651,700

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
4-25	2200	4.61	2,760	6- 6	0030	5.97	5,220
5- 8	0200	5.51	4,120	6-18	0200	5.60	4,300

SALT RIVER BASIN

213

13025000 SWIFT CREEK NEAR AFTON, 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 1.0 mi (1.6 km) upstream from mouth of canyon, 1.5 mi (2.4 km) east of Afton, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--27.4 mi² (71.0 km²).

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 (1,957 m), from topographic map.

AVERAGE DISCHARGE.--29 years (1942-71), 86.9 ft³/s (2.461 m³/s), 62,960 acre-ft/yr (77.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 758 ft³/s (21.5 m³/s) June 18, gage height, 3.73 ft (1.137 m); minimum daily during period of operation, 56 ft³/s (1.59 m³/s) Sept. 28-30.

Period of record: Maximum discharge, 775 ft³/s (21.9 m³/s) June 30, 1957, gage height, 3.52 ft (1.073 m); maximum gage height, 3.73 ft (1.137 m) June 17, 1971, June 18, 1974; minimum daily discharge, 20 ft³/s (0.57 m³/s) Dec. 30, 1958.

REMARKS.--Records poor. Small powerplant and reservoir, adjudication, 48.45 acre-ft/yr (0.060 hm³/yr), 0.2 mi (0.3 km) upstream. Pipeline, adjudication, 2.5 ft³/s (0.071 m³/s), diverts water above station for town of Afton. No diversion for irrigation above station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								68	292	358	125	77
2								74	348	353	126	76
3								76	353	353	123	72
4								76	384	344	120	72
5								83	458	335	118	72
6								99	458	335	110	70
7								116	389	317	110	68
8								130	300	296	108	68
9								140	276	284	106	68
10								150	272	284	97	65
11								133	312	272	95	67
12								130	433	258	93	67
13								126	509	244	89	67
14								116	526	236	85	67
15								113	483	236	83	67
16								103	498	230	82	65
17								123	542	215	78	64
18								103	622	210	78	64
19								108	609	210	76	61
20								116	493	205	76	61
21								113	389	200	72	62
22								108	358	190	80	62
23								108	348	180	82	64
24								113	366	170	82	64
25								128	371	160	80	62
26								160	376	155	80	60
27								233	344	150	80	58
28								308	312	145	78	56
29								376	335	140	77	56
30								362	344	135	77	56
31								280	-----	130	77	-----
TOTAL								4,452	12,100	7,330	2,843	1,958
MEAN								144	403	236	91.7	65.3
MAX								376	622	358	126	77
MIN								68	272	130	72	56
AC-FT								8,830	24,000	14,540	5,640	3,880

PEAK DISCHARGE (BASE, 390 FT³/S)

DATE	TIME	G.HT.	DISCHARGE
6-15	2400	3.33	478
6-18	0200	3.73	758

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WYO.

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, on right bank 3.4 mi (5.5 km) northwest of Etna, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--829 mi² (2,147 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 764 ft³/s (21.64 m³/s), 554,000 acre-ft/yr (683 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,590 ft³/s (102 m³/s) May 10, gage height, 5.08 ft (1.548 m); minimum, 257 ft³/s (7.28 m³/s) Jan. 2, gage height, 1.71 ft (0.521 m).

Period of record: Maximum discharge, 3,870 ft³/s (110 m³/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft³/s (4.53 m³/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

REMARKS.--Records excellent. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km²), of which about 1,000 acres (405 hm²) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347. Water-quality records for the current year are published in Part 2 of this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	637	570	430	439	401	727	2,350	2,360	1,310	625	656
2	622	635	560	330	430	443	697	2,500	2,260	1,270	627	649
3	615	614	560	324	433	443	674	2,560	2,200	1,310	653	643
4	612	618	520	406	428	424	657	2,350	2,220	1,270	673	640
5	612	609	470	413	432	428	681	2,050	2,330	1,240	678	640
6	607	626	500	402	422	434	709	2,820	2,440	1,210	680	647
7	604	670	540	418	429	440	720	2,930	2,390	1,170	687	640
8	616	750	530	417	419	446	753	3,160	2,260	1,090	701	640
9	634	745	520	387	437	448	904	3,210	2,110	1,050	701	640
10	648	681	520	388	421	448	908	3,490	1,960	1,020	701	640
11	651	651	520	406	409	445	873	3,210	1,790	985	701	640
12	642	652	534	417	417	451	967	2,970	1,710	944	700	640
13	633	673	527	442	421	453	933	2,800	1,720	911	693	640
14	626	661	524	401	423	463	973	2,640	1,790	895	693	640
15	620	638	521	416	425	465	1,070	2,480	1,910	884	692	640
16	615	632	516	484	419	465	1,220	2,290	1,970	902	686	640
17	611	641	516	472	427	509	1,400	2,180	2,030	914	686	640
18	606	655	527	459	429	574	1,610	2,120	2,030	869	679	640
19	603	651	518	459	437	604	1,790	2,130	2,030	846	678	640
20	604	630	479	454	425	509	1,970	2,180	2,010	846	678	640
21	602	625	509	450	418	544	1,720	2,160	1,940	846	678	640
22	605	614	514	439	435	555	1,690	2,090	1,940	846	678	640
23	604	598	507	447	414	544	2,030	1,980	1,830	846	678	648
24	619	599	501	436	408	516	2,370	1,910	1,720	821	678	648
25	619	598	502	435	406	515	2,670	1,950	1,630	804	677	648
26	615	590	483	435	409	528	3,040	2,040	1,580	815	664	648
27	608	592	481	430	399	509	2,770	2,250	1,510	821	663	648
28	605	587	518	435	388	654	2,430	2,390	1,430	821	663	648
29	610	582	494	430	-----	671	2,200	2,510	1,360	797	663	648
30	612	578	495	428	-----	677	2,210	2,570	1,310	748	663	648
31	615	-----	473	430	-----	707	-----	2,500	-----	656	663	-----
TOTAL	19,120	19,032	15,929	13,240	11,801	15,893	43,266	77,570	57,810	29,757	20,980	19,299
MEAN	617	634	514	427	421	513	1,442	2,502	1,927	960	677	643
MAX	651	750	570	484	439	767	3,040	3,490	2,440	1,310	701	656
MIN	602	578	470	324	368	401	657	1,910	1,310	656	625	640
AC-FT	37,920	37,750	31,600	26,260	23,410	31,520	85,820	153,900	114,700	59,020	41,610	38,280

CAI YR 1973 TOTAL 257,105 MEAN 704 MAX 2,180 MIN 414 AC-FT 510,000
 WTR YR 1974 TOTAL 343,697 MEAN 942 MAX 3,490 MIN 324 AC-FT 661,700

HENRYS FORK BASIN

215

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 gatehouse at dam 0.4 mi (0.6 km) upstream from mouth on Grassy Creek, which is tributary to headwaters of Falls River, and 25.4 mi (40.9 km) northwest of Moran, Wyo. Drainage area, 10.4 mi² (26.9 km²), 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, 15,300 acre-ft (18.9 hm³) June 17, 19, July 5, 15; maximum elevation, 7,210.50 ft (2,197.760 m) June 19; minimum contents observed, 9,700 acre-ft (12.0 hm³) Oct. 1, elevation, 7,190.90 ft (2,191.786 m). Period of record: Maximum contents observed, 15,400 acre-ft (19.0 hm³) July 2, 1943, elevation, 7,210.85 ft (2,197.867 m); 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 (18.7 hm³) between elevations 7,135.0 ft (2,174.75 m), sill of trashrack, and 7,210.0 ft (2,197.61 m), 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 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)	CONTENTS (ACRE- FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	---	a9,700	---
OCT. 31	---	a9,790	+90
NOV. 30	---	a10,000	+210
DEC. 31	---	a10,300	+300
CALENDAR YEAR 1973	---	---	+200
JAN. 31	---	a10,500	+200
FEB. 28	---	a10,700	+200
MAR. 31	---	a11,000	+300
APR. 30	7,196.65	11,200	+200
MAY 31	7,202.00	12,800	+1,600
JUNE 30	---	a15,100	+2,300
JULY 31	7,209.05	14,900	-200
AUG. 31	7,196.65	11,200	-3,700
SEPT. 30	---	a10,300	-900
WATER YEAR 1974	---	---	+600

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. 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 represents water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
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	1961-74	7-19-74	17.91	520
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	1961-74	1974		(a)
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	1961-74	1974		(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	1961-74	7-20-74	4.50	330
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, 1961-74	4-25-74	6.59	205
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	1965-74	5-29-74	7.52	165
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	1961-74	1974		(a)
06229900	Trout Creek near Fort Washakie, Wyo. (station discontinued)	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, 1970-74	5-29-74	5.99	97
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 [†] , 1969-74	5-29-74	5.51	1,310
06233360	Monument Draw at lower station, near Hudson, Wyo.	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	1965-74	2-28-74	4.38	247

See footnotes at end of table, p. 228.

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							
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.	b2.89	1969, 1971-74	4-20-74	4.23	5
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, 1961-74	4-20-74	1.43	c1
06238760	West Fork Dry Cheyenne Creek at upper station, near Riverton, Wyo.	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	1965-74	1974		(a)
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.	.39	1959-74	1974		(a)
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	1963-74	4-20-74	6.17	70
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	1960-74	4-21-74	5.77	20
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	1961-74	5-20-74	5.89	(†)
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	1960-74	1974		(a)
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 County, at culvert on U.S. Highway 20 and 12.3 miles southwest of Worland.	1.78	1961-74	3-19-74	(d)	c.5
06266460	Murphy Draw near Grass Creek, Wyo.	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	1965-74	4-20-74	2.37	4
06267260	North Prong East Fork Nowater Creek near Worland, Wyo.	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	1965-74	5-29-74	1.58	13

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							
06268500	Fifteen Mile Creek near Worland, Wyo.	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.	518	1951-72 [†] , 1974	8- 9-74	3.01	278
06269700	Spring Creek near Ten Sleep, Wyo. (station discontinued)	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	1961-74	4-27-74	5.06	104
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	1960-74	3- 1-74	4.88	12
06270200	Leigh Creek near Ten Sleep, Wyo. (station discontinued)	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.	2.54	1961-74	5- 9-74	16.35	(†)
06270300	Canyon Creek tributary near Ten Sleep, Wyo. (station discontinued)	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	1961-74	5- 9-74	6.46	18
06274190	Nowood River tributary No. 2 near Basin, Wyo.	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	1965-74	1974		(a)
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	1959-74	4-21-74	5.37	180
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	1960-74	7-19-74	7.69	660
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, 1970-74	7-19-74	6.12	136
06278400	Granite Creek near Shell Creek ranger station, near Shell, Wyo. (station discontinued)	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 Creek ranger station, and 11.8 miles east of Shell.	11.1	1961-74	5-28-74	8.11	290
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, 1970-74	7- 3-74	4.42	169

See footnotes at end of table, p. 228.

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							
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 south-east of Kane.	14.0	1961-74	7- 3-74	11.12	630
06279950	Trout Creek near Wapiti, Wyo. (station dis-continued)	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	1961-74	6-19-74	2.58	(†)
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	1967-74	3- -74	56.81	(†)
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	1961-74	4-20-74	5.39	415
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	1970-74	4-20-74	15.01	27
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	1961-74	4-20-74	4.24	21
06313020	Bobcat Creek near Edgerton, Wyo.	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 I. Ranch Headquarters, and 16.7 miles southeast of Edgerton.	8.29	1965-74	4-20-74	2.09	106
06313050	East Teapot Creek near Edgerton, Wyo.	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	1965-74	4-20-74	2.2	259
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	1961-74	4- -74	(d)	<173
06313180	Dugout Creek tributary near Midwest, Wyo.	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.	.71	1965-74	4-20-74	1.9	63
06313630	Van Houten Draw near Buffalo, Wyo. (Formerly published as Van Houghten 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	1971-74	5-20-74	6.37	240

See footnotes at end of table, p. 228.

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							
06313900	Caribou Creek near Buffalo, Wyo. (station discontinued)	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	1961-74	5- 9-74	5.56	73
06316700	Powder River tributary near Buffalo, Wyo.	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	1965-74	8-10-74	1.69	67
06317050	Rucker Draw near Spotted Horse, Wyo. (Formerly published as 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	1961-74	8-10-74	7.93	67
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	1969-74	1974		(a)
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, as site 125 ft downstream at same datum.	.81	1960-74	4-20-74	7.51	15
06324900	Cedar Draw near Gillette, Wyo. (Formerly published as 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	1959-74	4-20-74	c3.9	c7
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	1971-74	4-20-74	4.38	9
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	1959-74	1974		(a)
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, 1961-74	4- 7-74	3.47	17
06382200	Pritchard Draw near Lance Creek, Wyo.	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	1965-74	8-10-74	8.57	1,120
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.	f14.5	1972-74	5-29-74	4.79	12

See footnotes at end of table, p. 228.

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							
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	1959-74	10-24-73	10.04	470
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.	.25	1960-74	7- 2-74	8.22	66
06426195	Donkey Creek tri- butary 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	1970-74	4-20-74	15.96	(†)
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	1960-74	4-20-74	4.94	15
06427700	Inyan Kara Creek near Upton, Wyo.	Lat 44°13'45", long 104°26'45", in S½ 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	1959-74	1974	(d)	<72
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 Saw- mill Gulch, and 4.1 miles north of Devils Tower.	21.9	1971-74	4-20-74	6.48	92
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	1962-74	7-20-74	2.61	(†)
06429300	Ogden Creek near Sundance, Wyo.	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 up- stream 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	1962-74	4-20-74	1.16	11
Platte River basin							
06629100	Rattlesnake Creek near Walcott, Wyo. (station discontinued)	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	1962-74	5-30-71 6- 4-72 5-11-73 6- 9-74	g3.37 g3.37 g5.61 3.51	g51 g51 g125 55
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	1962-74	5-10-74	7.43	90

See footnotes at end of table, p. 228.

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							
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	1962-74	7-20-74	6.75	52
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	1959-74	7-20-74	16.61	51
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	1961-74	3- -74	5.68	19
06630200	Big Ditch tributary near Hanna, Wyo.	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	1959-74	6- 9-74	(d)	c2
06630800	Bear Creek near Elk Mountain, Wyo. (station discontinued)	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	1962-74	6- 9-74	8.64	73
06631100	Wagonhound Creek near Elk Mountain, Wyo. (station discontinued)	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	1962-74	5-19-73 5-10-74	g7.77 7.57	g305 265
06631150	Third Sand Creek near Medicine Bow, Wyo.	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	1965-74	6- 9-74	1.69	(†)
06632600	Threemile Creek near Arlington, Wyo. (station discontinued)	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	1962-74	5-20-74	4.65	48
06632700	Onemile Creek near Arlington, Wyo. (station discontinued)	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	1962-74	6- 8-74	2.20	(†)
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	1961-74	4-20-74	6.38	505
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	1961-74	4-27-74	6.88	330

See footnotes at end of table, p. 228.

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.	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	1965-74	4-20-74	2.04	79
06637550	Sweetwater River near South Pass City, Wyo.	Lat 44°22'30", long 108°52'56", in NW¼NW¼ 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.	177	1958-73, [†] 1974	4-25-74	7.13	996
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	1961-74	4-20-74	2.91	3
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 down-stream at different datum.	6.08	1961-74	4-21-74	14.11	13
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	1960-74	4-20-74	10.88	c2.5
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	1961-74	8-10-74	9.15	1,250
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	1961-74	7-21-74	6.50	1,130
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	1960-74	4-20-74	6.74	86
06644840	McKenzie Draw tributary near Casper, Wyo.	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	1965-74	3- 3-74	2.27	27
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 Box-elder Road and 4.9 miles southeast of Glenrock.	2.60	1961-74	6- 8-74	7.63	116
06648780	Sage Creek tribu-tary near Orpha, Wyo.	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	1965-74	1974		(a)

See footnotes at end of table, p. 228.

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							
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	1961-74	1974		(a)
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, 1961-74	6- 8-74	6.24	54
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	1961-74	8- 9-74	5.10	(†)
06652400	Watson Draw near Lost Springs, Wyo.	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	1960-74	6- 8-74	4.42	60
06655380	Fish Canyon near Guernsey, Wyo.	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	1965-74	1974		(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	1962-74	5-20-74	5.54	72
06668040	Rabbit Creek near Wheatland, Wyo.	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.	el.3	1965-74	1974		(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	1971-74	7-10-74	4.59	23
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	1971-74	1974		(a)
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	1969-74	1974		(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	1961-74	4-24-74	5.38	24

See footnotes at end of table, p. 228.

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							
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	1960-74	4-18-74	9.73	c2
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	1960-74	4-24-74	6.66	(†)
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	1960-74	1974		(a)
06761900	Lodgepole Creek tributary near Pine Bluffs, Wyo.	Lat 41°15'23", long 104°04'50", in NE¼NE¼ sec.21, T.15 N., P.60 W., Laramie County, at culvert on State Secondary Highway 1104 and 5.0 miles north of Pine Bluffs.	.44	1960-74	1974		(a)
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	1960-74	4-24-74	6.89	175
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	1961-74	4- -74	4.78	8
09207650	Dry Basin Creek near Rig 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 Rig Piney.	47.2	1971-74	4- -74	h2.45	43
09211100	Green River tributary near Fontenelle, Wyo. (station discontinued)	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	1961-74	1974		(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	1971-74	1974		(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	1969-74	4-20-74	5.01	45
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, 1971-74	4-20-74	4.58	12

See footnotes at end of table, p. 228.

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							
09216400	Greasewood Canyon near Green River, Wyo. (station discontinued)	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	1959-74	4-20-74	1.76	c15
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	1962-74	3- -74	6.66	390
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	1961-74	4-20-74	10.69	470
09216580	Big Flat Draw near Rock Springs, Wyo.	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-74	9-11-74	15.06	(†)
09216600	Salt Wells Creek tributary near Rock Springs, Wyo.	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	1959-74	7-20-74	17.42	(†)
09216695	No Name Creek near Rock Springs, Wyo.	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth, and 15 miles southeast of Rock Springs.	18.2	1973-74	3- -74	13.83	(†)
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	1959-74	3- -74	4.76	400
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	1959-74	3- -74	15.06	(†)
09221680	Mud Spring Hollow near Church Butte, near Lyman, Wyo.	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	1965-74	4- -74	(j)	c5
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	1959-74	4-20-74	6.14	52
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, 1968-74	1974		(a)

See footnotes at end of table, p. 228.

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							
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	1965-74	7-19-74	5.54	29
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	1965-74	1974		(a)
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	1965-74	1974		(a).
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	1965-74	4-20-74	5.57	66
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	1965-74	4-20-74	12.24	26
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, 1961-74	4-20-74	9.40	75
09229450	Henrys Fork tributary near Manila, Utah (station discontinued)	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	1965-74	4-20-74	4.75	31
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 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-74	6- -74	6.66	150
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	1965-74	4-25-74	7.41	160

See footnotes at end of table, p. 228.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Buffalo Fork basin							
13011800	Blackrock Creek tributary near Moran, Wyo. (station discontinued)	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.	0.80	1964-74	6-18-74	6.75	110
Hoback River basin							
13019210	Rim Draw near Bondurant, Wyo. (station discontinued)	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	1964-74	5-28-74	5.64	15
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	1964-74	5-28-74	5.90	21
13019400	Cliff Creek near Bondurant, Wyo. (station discontinued)	Lat 43°13'40", long 110°30'17", Sublette County, Teton National Forest, on right bank 1.6 miles upstream from mouth and 4.9 miles west of Bondurant.	58.6	1964-74	5-28-74	8.33	920
Tributaries to Snake River between Hoback River and Greys River							
13020000	Fall Creek near Jackson, Wyo. (station discontinued)	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 [†] , 1964-74	6-19-74	7.82	780
13021000	Cabin Creek near Jackson, Wyo. (station discontinued)	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 [†] , 1964-74	6-19-74	6.54	165
Salt River basin							
13023800	Fish Creek near Smoot, Wyo. (station discontinued)	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	1964-74	5-28-74	6.77	63

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a No evidence of flow.

b Of which 0.50 mi² is probably noncontributing.

c Estimate.

d Peak stage did not reach bottom of gage.

e Approximately.

f Of which 2.5 mi² is probably noncontributing.

g Revised.

h From floodmarks.

i Backwater from channel obstruction.

j Not determined.

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 (*).

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River Basin						
Clarks Fork Yellowstone	Yellowstone River	Lat 44°50'06", long 109°13'52", in NE¼SE¼NW¼ sec.14, T.56 N., R.102 W., Park County, 1.2 miles upstream from Paint Creek, 1.2 miles downstream from Newmeyer Creek, and 6.1 miles southwest of Clark.			8-22-74 9- 4-74 9-17-74 9-30-74	649 *461 *322 244
Paint Creek	Clarks Fork Yellowstone River	Lat 44°50'06", long 109°12'20", in NE¼SW¼NE¼ sec.13, T.56 N., R.102 W., Park County, at bridge on county road, 0.3 mile upstream from mouth, and 5.2 miles southwest of Clark.			7- 2-74 7-18-74 8- 9-74	2.6 3.4 4.8
Pat O'Hara Creek	Clarks Fork Yellowstone River	Lat 44°51'00", long 109°10'20", in NW¼SE¼NW¼ sec.8, T.56 N., R.102 W., Park County, at culvert on county road, 0.1 mile upstream from mouth, and 3.6 miles south of Clark.			7- 2-74 7-18-74 8- 9-74	9.8 3.7 5.2
State Ditch	Clarks Fork Yellowstone River	Lat 44°54'00", long 109°07'03", in NE¼NE¼NE¼ sec.25, T.57 N., R.102 W., Park County, at bridge on State Secondary Highway 1502, and 1.6 miles east of Clark.			7- 2-74 7-18-74 8- 9-74	72 71 74
Clarks Fork Yellowstone River	Yellowstone River	Lat 44°53'20", long 109°07'03", in NE¼SE¼SE¼ sec.25, T.57 N., R.102 W., Park County, at bridge on State Highway 120, 1.7 miles southeast of Clark, and 3.1 miles upstream from Bennett Creek.			7- 2-74 7-18-74 8- 9-74	5,050 3,020 1,340
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† 1966-73	10-12-73 1- 3-74 2-12-74 3- 8-74 3-28-74 8- 1-74	319 105 132 136 108 62
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† 1968-73	10- 3-73 11- 5-73 11-28-73 1- 4-74 2- 6-74 3- 4-74 3-28-74 4-25-74 6- 7-74 6-27-74 8- 2-74 9-10-74	12 7.3 8.8 3.6 7.9 8.4 25 96 20 .94 0 0
Wind River 06236100	Yellowstone River	Lat 43°07'43", long 108°13'28", in NW¼NE¼NE¼ sec.25, T.2 N., R.5 E., Fremont County, 4.0 miles upstream from Muskrat Creek, 5.3 miles upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft, 6.6 miles southwest of U.S. Highway 26 Causeway, and 9.4 miles southwest of Shoshoni.			1- 4-74 2-11-74 3-12-74 3-27-74 4-25-74 5-23-74 8- 1-74 8-27-74 9-30-74	402 693 861 753 1,590 647 774 486 847
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.		1966-73	5- 4-74	2,310
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† 1970-73	10-22-73 5- 7-74 9-12-74	2,410 1,500 488

See footnotes at end of table, p. 236.

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River Basin--Continued						
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† 1968-73	10-11-73 3-25-74 6- 4-74 8- 8-74	68 32 882 46
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 1965-73	12- 5-73 1-14-74 2-21-74 3-25-74 5- 1-74 8- 8-74	237 162 201 206 465 97
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.		1971-73	10- 3-73 10-30-73 12-11-73 2- 2-74 4- 2-74 5- 6-74 6- 6-74 7- 2-74 7-19-74 9- 5-74	*8.4 6.8 1.8 1.7 .86 9.8 41 69 49 *7.7
Deer Creek	Wood River	Lat 43°56'08", long 109°08'38", in SE¼SW¼ sec.19, T.46 N., R.102 W., Park County, Shoshone National Forest, 0.5 mile upstream from mouth, and 8.7 miles northeast of Kirwin.			4- 2-74 5- 6-74 6- 6-74 7- 2-74 9- 6-74	.68 15 14 4.8 *1.2
Middle Fork Wood River	Wood River	Lat 43°55'43", long 109°08'16", in SW¼NE¼ sec.30, T.46 N., R.102 W., Park County, Shoshone National Forest, 0.1 mile upstream from mouth, and 8.7 miles northeast of Kirwin.			4- 2-74 5- 6-74 6- 6-74 7- 2-74 9- 6-74	6.5 52 119 96 *17
Dick Creek	Wood River	Lat 43°59'19", long 109°05'28", in NW¼NW¼NW¼ sec.3, T.46 N., R.102 W., Park County, 0.5 mile downstream from Shoshone National Forest boundary, and 12.8 miles northeast of Kirwin.			4- 2-74 5- 6-74 6- 6-74 7- 2-74 9- 6-74	1.8 19 20 8.2 *1.7
Greybull River 06277500	Bighorn River	Lat 44°24'24", long 108°11'10", in NE¼NW¼SW¼ sec.8, T.51 N., R.94 W., Big Horn County, at bridge on State Highway 0200, 3.0 miles upstream from Dorsey Creek, and 8.0 miles west of Basin.	1,115	1930-73†	10- 4-73 1-14-74 2-18-74 5-20-74 7-22-74 9- 3-74 9-30-74	242 60 73 112 150 46 52
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	1965-73	10- 9-73 1-15-74 2-19-74 3-19-74 5-20-74 6-18-74 8-19-74	71 76 72 72 157 1,560 28
Shoshone River 06282900	Bighorn River	Lat 44°34'37", long 108°58'18", in SE¼NW¼NW¼ sec.13, T.53 N., R.101 W., Park County, at bridge on U.S. Highway 14A, 160 ft downstream from Dry Gulch, 480 ft upstream from Dry Creek, 0.4 mile south of Trotters Station, and 5.5 miles northeast of Cody.			1-17-74 2-20-74 3-20-74	527 626 645
Tongue River 06299980	Yellowstone River	Lat 44°54'08", long 107°01'49", in NW¼SW¼NW¼ sec.20, T.57 N., R.84 W., Sheridan County, at bridge on county road at Monarch, 0.6 mile upstream from South Dry Creek, and 1.0 mile upstream from Interstate Highway 90.			4- 3-74 5- 1-74 6- 4-74 7- 9-74 9- 3-74	87 404 1,510 269 93

See footnotes at end of table, p. 236.

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Yellowstone River Basin--Continued						
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† 1972-73	11-12-73 3-11-74 4- 4-74 5-29-74	118 140 122 84
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.	a1,150	1911-12† 1938-40† 1950-69† 1970-73	3-11-74 4- 4-74 5-30-74 6-20-74 7-11-74 9-19-74	29 21 29 3.2 0 0
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	1967-73	10-29-73 11-20-73 3-11-74 4- 4-74 5-29-74 7-11-74 8-28-74 9-20-74	24 5.9 31 25 45 23 27 27
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† 1971-73	11- 6-73 12-18-73 2-26-74 4- 6-74	20 26 30 22
Powder River 06324500	Yellowstone River	Lat 45°04'10", long 105°52'00", in NW¼ sec.8, T.9 S., R.48 E., Powder River County, 500 ft downstream from discontinued post office at Moorhead, Mont., 6.2 miles upstream from Buffalo Creek, and at mile 184.8. Measurements made 1.1 miles upstream from discontinued gaging station.	8,088	1929-72†	4- 5-74 4-30-74 6- 5-74 7-11-74 9- 5-74	339 1,560 492 81 195
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.		1968-73	10-24-73 11-14-73 12- 6-73 2-14-74 3-14-74 4-25-74 5- 8-74 6- 5-74 9-11-74	15 14 10 29 65 58 30 16 7.6
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.		1967-73	10-30-73 7-16-74 7-19-74 8-23-74 9-27-74	3.5 25 24 3.9 1.9
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† 1968-73	5- 6-74 7- 8-74	164 .28

See footnotes at end of table, p. 236.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Platte River Basin--Continued						
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.		1968-73	8-13-74	.08
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.	b668	1946-56; 1968-73	4- 1-74 5-13-74 6-24-74 7-15-74 8- 5-74 9- 4-74 9-27-74	9.4 16 27 14 17 16 11
Cottonwood Creek	North Platte River	Lat 42°17'35", long 105°07'38", in SW¼SW¼SE¼ sec.21, T.27 N., R.69 W., Platte County, at abandoned ranch, 4.7 miles upstream from Crow Creek, and 13 miles west of Wendover.			2-14-74	*.64
Cottonwood Creek	North Platte River	Lat 42°17'35", long 105°05'56", in SE¼SE¼SW¼ sec.23, T.27 N., R.69 W., Platte County, 2.9 miles upstream from Crow Creek and 12 miles west of Wendover.			2-14-74	*1.1
Cottonwood Creek	North Platte River	Lat 42°17'10", long 105°03'17", in SW¼SW¼NE¼ sec.30, T.27 N., R.68 W., Platte County, at cuvlert on county road, 0.4 mile downstream from Crow Creek, and 9.7 miles west of Wendover.			2-14-74	*3.7
Cottonwood Creek	North Platte River	Lat 42°17'26", long 105°00'35", in SW¼NE¼NE¼ sec.28, T.27 N., R.68 W., Platte County, at Adams Ranch, and 7.3 miles west of Wendover.			2-14-74	*6.1
Cottonwood Creek	North Platte River	Lat 42°17'54", long 104°57'08", in NW¼NE¼SE¼ sec.24, T.27 N., R.68 W., Platte County, at Herman Ranch, and 4.5 miles southwest of Wendover.			2-14-74	*7.3
Cottonwood Creek	North Platte River	Lat 42°18'08", long 104°54'15", in NE¼SW¼NW¼ sec.21, T.27 N., R.67 W., Platte County, 1.1 miles southwest of Oregon Trail Marker, and 2.3 miles southwest of Wendover.			2-14-74	*2.5
North Platte River	Platte River	Lat 42°14'52", long 104°43'00", in NW¼NE¼NE¼ sec.12, T.26 N., R.66 W., Platte County, 0.3 mile southwest of Old Guernsey Ranch and 2.0 miles southeast of Guernsey.			2-11-74	6.8
North Platte River	Platte River	Lat 42°14'35", long 104°39'22", in SE¼SE¼NE¼ sec.9, T.26 N., R.65 W., Platte County, 1.6 miles upstream from Whalen Diversion Dam and 6.0 miles east of Guernsey.			2-11-74	7.7
Laramie River 06660100	North Platte River	Lat 41°24'50", long 105°36'56", in NE¼SE¼SE¼ sec.30, T.17 N., R.73 W., Albany County, at bridge on county road, 400 ft downstream from bridge on Union Pacific Railroad, 0.2 mile south of Howell, and 7.3 miles north of Laramie.			1-25-74 2-19-74 3-18-74	58 59 114
Laramie River 06660500	North Platte River	Lat 41°28'22", long 105°43'30", in NW¼NE¼SW¼ sec.5, T.17 N., R.74 W., Albany County, at old Two Rivers Post Office, 0.6 mile upstream from Little Laramie River, and 14 miles northwest of Laramie.	1,224	1909-27; 1933-72; 1973	3-18-74 4-29-74 8-26-74	131 181 20

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 6 Platte River Basin--Continued						
Little Laramie River 06661500	Laramie River	Lat 41°28'07", long 105°43'56", in SE½SE½SE½ sec.6, T.17 N., R.74 W., Albany County, at bridge at old Two Rivers Post Office, 0.5 mile upstream from mouth, and 14 miles northwest of Laramie.	376	1903 1911-27† 1933-72† 1973	10-26-73 1-25-74 2-19-74 3-18-74 4-29-74 5-28-74 8-26-74	11 7.8 14 71 45 94 4.5
North Laramie River	Laramie River	Lat 42°10'07", long 105°08'05", in NE½NE½SW½ sec.4, T.25 N., R.69 W., Platte County, 1.8 miles downstream from Rabbit Creek, and 11 miles west of Uva.			2-13-74	*20
North Laramie River	Laramie River	Lat 42°09'55", long 105°03'25", in NE½SE½SW½ sec.6, T.25 N., R.68 W., Platte County, 0.1 mile east of G. Mitchell Ranch, and 7.4 miles northwest of Uva.			2-13-74	*13
North Laramie River	Laramie River	Lat 42°09'25", long 104°59'57", in NW½SE½NW½ sec.10, T.25 N., R.68 W., Platte County, 300 ft upstream from Interstate Highway 25, and 4.4 miles northwest of Uva.			2-13-74	*16
North Laramie River 06668500	Laramie River	Lat 42°07'48", long 104°55'34", in SW½NW½NW½ sec.20, T.25 N., R.67 W., Platte County, 200 ft upstream from bridge on county road, and 0.3 mile west of Uva.	530	1911-12†	2-13-74	*20
Bear Creek	Horse Creek	Lat 41°38'28", long 104°14'26", in SW½NE½SW½ sec.6, T.19 N., R.61 W., Goshen County, 20 ft downstream from U.S. Highway 85 and 3.9 miles west of La Grange.			11-15-73	*20
Bear Creek	Horse Creek	Lat 41°38'15", long 104°12'56", in SW½SW½SE½ sec.5, T.19 N., R.61 W., Goshen County, 50 ft downstream from bridge on State Highway 151 and 2.7 miles west of La Grange.			11-15-73	*19
Bear Creek	Horse Creek	Lat 41°38'50", long 104°13'04", in NE½SE½NW½ sec.5, T.19 N., R.61 W., Goshen County, 0.5 mile upstream from bridge on county road, 1.2 miles east of U.S. Highway 85, and 2.9 miles west of La Grange.			11-15-73	*20
Crow Creek 06756000	South Platte River	Lat 41°07'09", long 104°45'33", in NW½SW½SE½ 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† 1972-73	11- 2-73 11-30-73 12-13-73 3-29-74 4-15-74 4-25-74 5-20-74 6- 7-74 6-21-74 7- 8-74 7-22-74 8-13-74 8-30-74	12 20 23 18 37 28 20 12 21 14 16 13 16
Part 9 Green River Basin						
Green River 09192600	Colorado River	Lat 42°34'14", long 109°56'58", in NE½NE½NE½ 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.	al,260	1965-66 1968-73	1- 9-74 2- 6-74 3- 5-74	150 185 212

See footnotes at end of table, p. 236.

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 9 Green River Basin--Continued						
Smith Fork 09221650	Blacks Fork	Lat 41°22'31", long 110°12'14", in SW¼SE¼SE¼ sec.12, T.16 N., R.114 W., Uinta County, at bridge on U.S. Highway 30S, 1.5 miles downstream from Cottonwood Creek, 1.6 miles upstream from mouth, and 5.7 miles northeast of Lyman.			1-10-74 2- 7-74 3- 7-74 4- 3-74 5- 1-74 5-30-74 7-10-74 8- 7-74 9- 5-74	11 29 175 71 199 818 18 15 1.5
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.	a670	1965-73	11- 8-73 11-28-73 1- 9-74 2- 7-74 3- 7-74 4- 3-74	32 24 6.0 17 34 87
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.		1966-73	10- 3-73 7-16-74 7-19-74 8-23-74 9-27-74	1.8 10 9.3 2.4 1.3
Part 13 Snake River Main Stem						
Snake River 13012400	Columbia River	Lat 43°48'44", long 110°32'44", in NW¼NW¼NW¼ sec.4, T.44 N., R.114 W., Grand Teton National Park, Teton County, 0.2 mile upstream from Spread Creek, and 2.8 miles southwest of Moran.			10-27-73	650
Spread Creek Basin						
Spread Creek 13012500	Snake River	Lat 43°47'26", long 110°32'14", in NE¼NE¼SW¼ sec.9, T.44 N., R.114 W., Grand Teton National Park, Teton County, 200 ft upstream from bridge on U.S. Highways 26, 89, and 287, 1.7 miles upstream from mouth, and 3.9 miles south of Moran.	101	1917-18; 1971, 1973	6-18-74	976
Snake River Main Stem						
Snake River 13012760	Columbia River	Lat 43°44'09", long 110°39'43", in SE¼SW¼NW¼ sec.33, T.44 N., R.115 W., Grand Teton National Park, Teton County, 5.5 miles upstream from Cottonwood Creek and 6.2 miles north-east of Moose.		1973	10-27-73	764
Cottonwood Creek basin						
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, at bridge on Teton Park road, 0.5 mile upstream from Taggart Creek, 3.0 miles upstream from mouth, 3.0 miles northwest of Moose, and 3.6 miles south of Jenny Lake.			6-19-74	945

See footnotes at end of table, p. 236.

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13						
Ditch Creek Basin						
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.		1972-73	6-18-74	176
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.		1972-73	10-25-73	1,060
Gros Ventre River Basin						
Gros Ventre River	Snake River	Lat 43°33'59", long 110°43'57", in NE¼NE¼NW¼ sec.35, T.42 N., R.116 W., Grand Teton National Park, Teton County, at bridge on U.S. Highways 26, 89, and 187, 4.0 miles upstream from mouth, 6.0 miles northeast of Jackson, and 6.5 miles south of Moose.			6-19-74	4,310
Gros Ventre River	Snake River	Lat 43°33'26", long 110°45'45", in SE¼NE¼SE¼ sec.33, T.42 N., R.116 W., Teton County, 100 ft downstream from bridge on county road, 2.0 miles upstream from mouth, and 5.3 miles north of Jackson.			10-24-73	76
Fish Creek Basin						
Fish Creek 13016450	Snake River	Lat 43°30'03", long 110°52'15", in NW¼NW¼SE¼ sec.22, T.41 N., R.117 W., Teton County, 10 ft downstream from bridge, and 0.3 mile northeast of Wilson.	72.3	1970	10-24-73	*62
Spring Creek Basin						
Spring Creek 13017450	Snake River	Lat 43°28'49", long 110°47'48", in SW¼SE¼SW¼ sec.29, T.41 N., R.116 W., Teton County, 100 ft downstream from State Secondary Highway 22, and 1.8 miles west of Jackson.			10-28-73	*15
Snake River Main Stem						
Snake River 13017800	Columbia River	Lat 43°23'04", long 110°44'41", in NE¼NE¼SW¼ sec.34, T.40 N., R.116 W., Teton County, at bridge on U.S. Highways 26, 89, 187, and 189, 0.1 mile upstream from Flat Creek, and 6.6 miles south of Jackson.			10-26-73	1,520

See footnotes at end of table, p. 236.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1974

Additional measurements made at these locations during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 13 Flat Creek Basin						
Flat Creek 13018000	Snake River	Lat 43°33'28", long 110°37'30", in SW¼NE¼SE¼ sec.34, T.42 N., R.115 W., Teton County, 0.1 mile downstream from Teton National Forest boundary, and 8.6 miles northeast of Jackson.	40.7	1933-42†	10- 2-73	*18
Flat Creek 13018350	Snake River	Lat 43°27'43", long 110°47'32", in NW¼SW¼NW¼ sec.5, T.40 N., R.116 W., Teton County, 30 ft upstream from bridge on U.S. Highways 26, 89, 187, and 189, and 2.0 miles southwest of Jackson.			10- 2-73	*76
Flat Creek 13018550	Snake River	Lat 43°23'11", long 110°44'35", in SE¼SE¼NW¼ sec.34, T.40 N., R.116 W., Teton County, 300 ft upstream from mouth, and 6.5 miles south of Jackson.			10- 2-73	116
Henrys Fork Basin						
Trail Creek 13050750	Henrys Fork	Lat 43°32'31", long 111°02'37", Targhee National Forest, Teton County, at downstream edge of campground, 0.3 mile east of State line, and 9.0 miles west of Wilson.			10- 1-73	*18
Darby Creek 13051300	Teton River	Lat 43°40'27", long 110°01'20", Targhee National Forest, Teton County, 20 ft downstream from bridge, 0.8 mile downstream from Deadwood Creek, 1.2 miles east of State line, and 5.4 miles south of Alta.			10- 1-73	*24
Teton Creek 13051500	Teton River Columbia	Lat 43°45'19", long 110°58'02", Targhee National Forest, Teton County, at trail end, 1.7 miles upstream from Mill Creek, and 3.4 miles east of Alta.	33.8	1946-53‡	10- 1-73	*67

* Base flow.

† Operated as a continuous-record gaging station.

‡ Approximately.

b 98 mi² is probably noncontributing.

INDEX

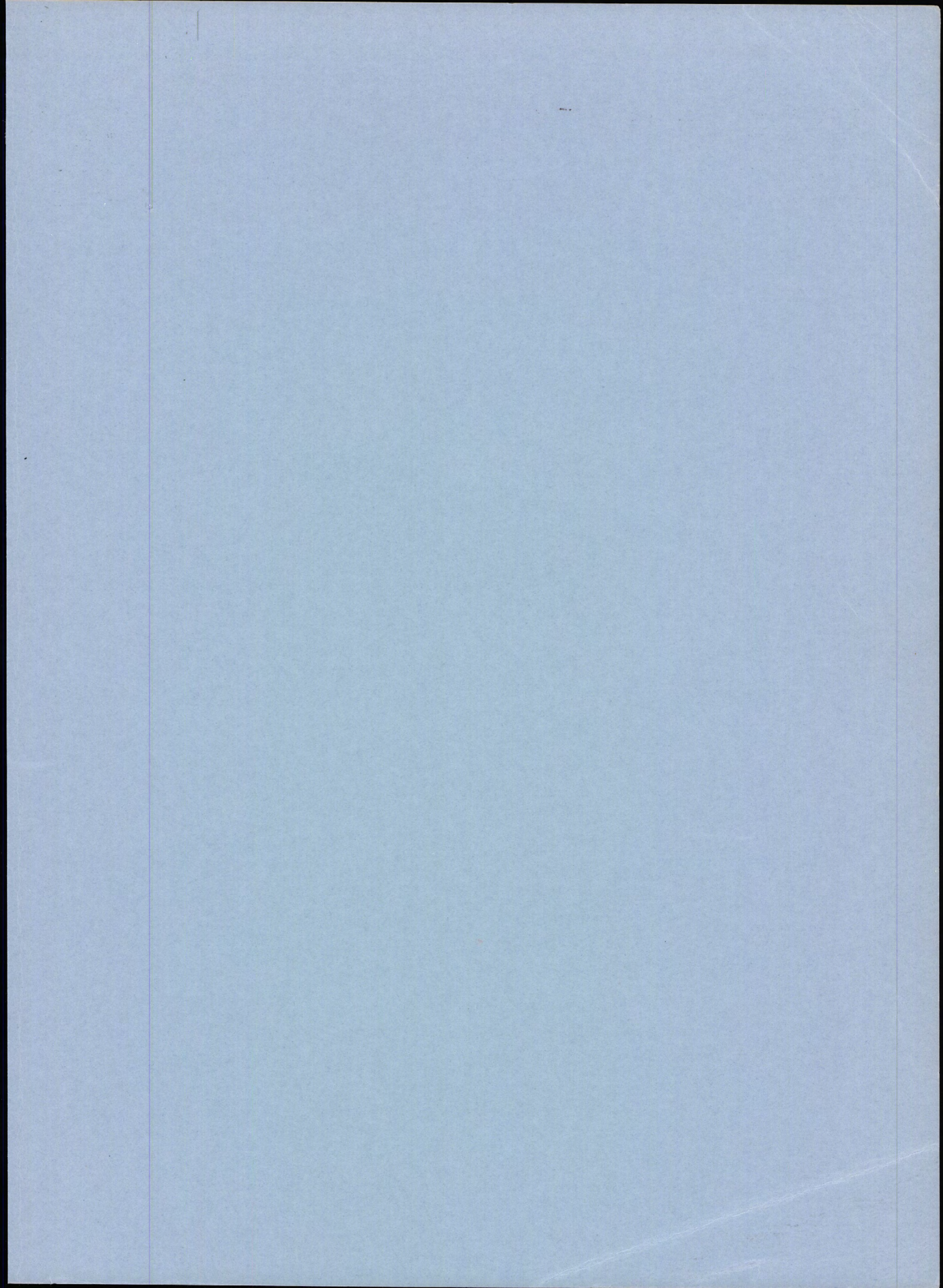
	Page		Page
Accuracy of field data and computed results..	9	Big Sandy, Big Sandy River at	
Acme, Prairie Dog Creek near.....	71	Leckie Ranch, near.....	166
Acre-foot, definition of.....	2	East Fork River near.....	159
Afton, Swift Creek near.....	213	Big Sandy River, at Gasson Bridge, near Eden.	170
Agate, Nebr., Niobrara River at.....	101	at Leckie Ranch, near Big Sandy.....	166
Alcova, Alcova Reservoir at.....	121	below Eden.....	169
North Platte River at.....	122	near Farson.....	167
Pathfinder Reservoir near.....	120	Bighorn Lake near St. Xavier, Mont.....	59
Sweetwater River near.....	119	Bighorn River, at Kane.....	48
Alcova Reservoir at Alcova.....	121	at Lucerne.....	229
Alpine, Greys River above Reservoir, near....	212	at Worland.....	229
Snake River above Reservoir, near.....	211	near St. Xavier, Mont.....	60
Anchor, North Fork Owl Creek above		Binford, Cottonwood Creek near.....	130
Basin Ranch, near.....	39	Bitter Creek (Green River basin), near	
South Fork Owl Creek near.....	37	Point of Rocks.....	226
Anchor Reservoir.....	89-90	tributary near Green River.....	226
South Fork Owl Creek below.....	38	Bitter Creek (Yellowstone River basin)	
Arlington, Rock Creek above King		near Garland.....	54
Canyon Canal, near.....	112	Blackrock Creek tributary near Moran.....	228
Arvada, Clear Creek near.....	87	Blacks Fork, near Little America.....	178
Powder River at.....	79	near Lyman.....	176
Atlantic City, Rock Creek at.....	117	near Millburne.....	173
		near Robertson.....	172
Badger Basin, Big Sand Coulee above State		tributary near Granger.....	226
ditch near.....	18	tributary No. 2 near Green River.....	227
Barlow Creek near Devils Tower.....	221	tributary No. 3 near Green River.....	227
Barnum, Middle Fork Powder River near.....	73	tributary No. 4 near Green River.....	227
Bates Creek near Alcova.....	231	Blacktail Creek tributary near Newcastle....	221
Bear Creek (tributary to Horse Creek), at		Bluegrass Creek near Wheatland.....	142
State Highway 151, near La Grange.....	233	Rob Creek ditch near Glendevey, Colo.,	
at U.S. Highway 85, near La Grange.....	233	diversion by.....	155
east of U.S. Highway 85, near La Grange....	233	Bobcat Creek near Edgerton.....	219
South Fork, near Little Bear.....	225	Bobcat Draw near Sand Draw.....	217
Bear Creek (tributary to Medicine Bow River)		Bonneville, Dry Creek near.....	34
near Elk Mountain.....	222	Border, Bear River at.....	203
Bear River, above reservoir, near		Smiths Fork near.....	201
Woodruff, Utah.....	196	Rosler, Laramie River near.....	139
at Border.....	203	Pox Creek near Bill.....	220
below Pixley Dam, near Cokeville.....	200	Box Elder Creek at Boxelder.....	125
below reservoir, near Woodruff, Utah.....	198	Boysen Reservoir.....	89-90
below Smiths Fork, near Cokeville.....	202	Wind River below.....	36
East Fork, near Evanston.....	187	Buffalo, Clear Creek near.....	80
near Randolph, Utah.....	199	Dead Horse Creek near.....	76
near Utah-Wyoming State line.....	191	North Fork Crazy Woman Creek, below	
West Fork, at Whitney Dam, near		Pole Creek, near.....	77
Oakley, Utah.....	189	near.....	78
below Deer Creek, near Evanston.....	190	Rock Creek near.....	81
Bear River basin, crest-stage partial-		Buffalo Bill Reservoir.....	89-90
record station in.....	227	Shoshone River, below.....	51
gaging-station records in.....	187-204	South Fork, above.....	50
Bear Springs Creek near Alcova.....	223	Puffalo Fork above Lava Creek, near Moran....	208
Beaver Creek (tributary to Cheyenne River)		Buffalo Fork basin, crest-stage partial-	
near Newcastle.....	93	record station in.....	228
Beaver Creek (tributary to Little Wind		gaging-station record in.....	208
River) near Arapahoe.....	229	Bull Lake Creek, above Bull Lake.....	24
Belfry, Mont., Clarks Fork Yellowstone		near Lenore.....	25
River near.....	17	Bull Lake.....	89-90
Silver Tip Creek near.....	20	Bull Lake Creek above.....	24
Belle Fourche River, at Devils Tower.....	231	Burnt Fork near Burnt Fork.....	179
at Wyoming-South Dakota State line.....	97	Burris, Dinwoody Creek above lakes, near....	22
below Keyhole Reservoir.....	96		
tributary No. 2 near Hulett.....	221	Cabin Creek near Jackson.....	228
Big Coulee near Lovell.....	58	Cache Creek near Jackson.....	210
Big Ditch tributary near Hanna.....	222	Cache la Poudre River basin, transbasin div-	
Big Flat Draw near Rock Springs.....	226	ersions to, from North Platte River....	155
Big Goose Creek, East Fork, near Big Horn....	66	Cameron Pass ditch at Cameron Pass,	
near Sheridan.....	68	Colo., diversion by.....	155
West Fork, near Big Horn.....	67	Canyon Creek tributary near Ten Sleep.....	218
Big Horn, East Fork Big Goose Creek near....	66	Caribou Creek near Puffalo.....	220
Little Goose Creek in canyon, near.....	69	Casper Creek, at Casper.....	232
West Fork Big Goose Creek near.....	67	Middle Fork, near Bucknum.....	232
Big Piney, New Fork River near.....	160	Cedar Draw near Gillette.....	220
Big Sand Coulee, above State ditch, near		Cfs-day, definition of.....	2
Badger Basin.....	18	Chapman Canal at State line, near Evanston...	195
at Wyoming-Montana State line.....	19	Cherry Creek drain near Torrington.....	151

	Page		Page
Cheyenne River, at Edgemont, S. Dak.....	94	Ditch Creek near Moose, Grand Teton	
near Spencer.....	92	National Park.....	235
Cheyenne River basin, crest-stage partial-		Dixon, Little Snake River near.....	185
record station in.....	220-221	Willow Creek near.....	186
discharge measurements at miscellaneous		Donkey Creek tributary, above reservoir,	
site in.....	231	near Gillette.....	221
gaging-station records in.....	91-99	near Gillette.....	221
Chugwater Creek near Uva.....	147	Douglas, La Prele Creek near.....	126
Clarks Fork Yellowstone River, above		Drainage area, definition of.....	3
Bennett Creek, near Clark.....	229	Dry Basin Creek near Big Piney.....	225
above Paint Creek, near Clark.....	229	Dry Cheyenne Creek, West Fork, at upper	
near Belfry, Mont.....	17	station, near Riverton.....	217
Clear Creek, near Arvada.....	87	Dry Cow Creek near Baggs.....	227
near Buffalo.....	80	Dry Creek (tributary to Badwater Creek)	
Cliff Creek near Bondurant.....	228	near Bonneville.....	34
Coal Bank Draw, tributary near Walcott.....	221	Dry Creek (tributary to Bighorn River)	
tributary No. 2 near Walcott.....	222	tributary near Emblem.....	218
Coal Creek (tributary to Muddy Creek)		Dry Creek (tributary to North Platte River),	
near Muddy Gap.....	223	East Fork, tributary near Glenrock.....	223
Coal Creek (tributary to North Platte River)		Dry Creek (tributary to Wind River)	
near Goose Egg.....	223	near Crowheart.....	216
Coal Creek (tributary to Sugar Creek)		Dry Rawhide Creek near Lingle.....	224
near Rawlins.....	222	Dubois, Wind River near.....	21
Coal Draw near Midwest.....	219	Dugout Creek tributary near Midwest.....	219
Cokeville, Bear River below Pixley Dam, near.	200		
Bear River below Smiths Fork, near.....	202	East Fork River near Big Sandy.....	159
Columbine ditch at Deadman Hill, Colo.,		East Otterson Wash near Green River.....	225
diversion by.....	155	East Teapot Creek near Edgerton.....	219
Colter, East Fork Nowater Creek near.....	41	Eden, Big Sandy River at Gasson Bridge, near.	170
Contents, definition of.....	2	Big Sandy River below.....	169
Control, definition of.....	2	Little Sandy Creek above.....	168
Cooperation, record of.....	1	Edgemont, S. Dak., Cheyenne River at.....	94
Corwin Springs, Mont., Yellowstone River at..	16	Elk Creek near Basin.....	218
Cottonwood Creek (tributary to Cheyenne		Elk Mountain, East Fork Medicine Bow	
River) at Hat Creek.....	220	River near.....	111
Cottonwood Creek (tributary to North Platte		Medicine Bow River at Bow ranger station,	
River), above Crow Creek, near Wendover	232	near.....	110
above Wendover.....	232	Pass Creek near.....	108
at abandoned ranch, near Binford.....	232	Encampment River, above Hog Park Creek,	
at Adams Ranch, near Wendover.....	232	near Encampment.....	105
at county road, near Wendover.....	232	at mouth, near Encampment.....	106
at Herman Ranch, near Wendover.....	232	Etna, Salt River above Reservoir, near.....	214
at Wendover.....	131	Evanston, Chapman Canal at State line, near..	195
near Binford.....	130	Fast Fork Bear River near.....	187
Cottonwood Creek (tributary to Snake River)		Hilliard-Fast Fork Canal near State	
near Moose, Grand Teton National Park..	234	line, near.....	188
Cow Creek tributary near Weston.....	220	Sulphur Creek above Reservoir, near.....	192
Crazy Woman Creek, at upper station,		Sulphur Creek below Reservoir, near.....	193
near Arvada.....	231	West Fork Bear River below Deer Creek,	
North Fork, below Pole Creek, near Buffalo.	77	near.....	190
near Buffalo.....	78	Yellow Creek near.....	194
Crooks Creek, West Fork, near Jeffrey City..	223	Explanation of surface-water data.....	4
Crow Creek (tributary to South Platte River)			
near Cheyenne.....	233	Fall Creek near Jackson.....	228
Crow Creek (tributary to Wind River)		Farson, Big Sandy River near.....	167
near Tipperary.....	23	Fifteen Mile Creek near Worland.....	218
Crowheart, Wind River near.....	26	Filmore, Little Laramie River near.....	138
Cubic feet per second per square mile,		Fish Canyon near Guernsey.....	224
definition of.....	3	Fish Creek (Platte River basin) near	
Cubic foot per second, definition of.....	3	Fletcher Park.....	145
		Fish Creek (Salt River basin) near Smoot....	228
Daniel, Green River at Warren Bridge, near...	156	Fish Creek (Snake River basin) at Wilson....	235
Darby Creek near State line, near Alta.....	236	Fivemile Creek, above Wyoming Canal,	
Data, accuracy of.....	9	near Pavillion.....	32
collection and computation.....	4	near Shoshoni.....	33
explanation of.....	4	Flaming Gorge Reservoir at Flaming Gorge	
other available.....	10	Dam, Utah.....	181
Dayton, Highline ditch, diversion by, near...	63	Flat Creek, above mouth, near Jackson.....	236
Little Tongue River near.....	64	at forest boundary, near Jackson.....	236
Tongue River near.....	63	below Cache Creek, near Jackson.....	236
Dead Horse Creek near Buffalo.....	76	Flat Creek basin, discharge measurements	
Deadman Wash near Point of Rocks.....	226	at miscellaneous sites in.....	236
Deaver, Sage Creek at Sidon Canal, near.....	57	gaging-station record in.....	210
Decker, Mont., Tongue River at State		Fletcher Park, Fish Creek near.....	145
line, near.....	72	Fontenelle Creek near Herschler Ranch,	
Deer Creek (tributary to North Platte River)		near Fontenelle.....	163
below Millar wasteway, at Glenrock.....	123	Fontenelle Reservoir, near Fontenelle.....	164
Deer Creek (tributary to Wood River)		Green River below.....	165
near Kirwin.....	230	Fort Laramie, Laramie River near.....	148
Definition of terms.....	2	Fourmile Gulch tributary near Fontenelle....	225
Delaney Draw near Red Desert.....	222	Fremont Lake, Pine Creek above.....	158
Dick Creek near Kirwin.....	230	Frontier, Hams Fork below Pole Creek, near...	177
Dickie, Gooseberry Creek at.....	40		
Dinwoody Creek above lakes, near Burris.....	22	Gage height, definition of.....	3
Discharge, definition of.....	3	Gaging station, definition of.....	3

	Page		Page
Gallatin Gateway, Mont., Gallatin River near.	13	Lakes and reservoirs:	
Gallatin River near Gallatin Gateway, Mont...	13	Alcova Reservoir at Alcova.....	121
Garland, Bitter Creek near.....	54	Anchor Reservoir.....	89-90
Shoshone River near.....	52	Bighorn Lake near St. Xavier, Mont.....	59
Whistle Creek near.....	55	Boysen Reservoir.....	89-90
Glendevey, Colo., Laramie River near.....	135	Buffalo Bill Reservoir.....	89-90
Glendo Reservoir, near Glendo.....	128	Bull Lake.....	89-90
North Platte River below.....	129	Flaming Gorge Reservoir.....	181
Glenrock, Deer Creek below Millar waste-		Fontenelle Reservoir near Fontenelle.....	164
way, at.....	123	Glendo Reservoir near Glendo.....	128
North Platte River near.....	124	Grassy Lake.....	215
Goose Creek below Sheridan.....	70	Guernsey Reservoir near Guernsey.....	132
Gooseberry Creek at Dickie.....	40	Jackson Lake near Moran.....	205
Granite Creek (Yellowstone River basin) near		Keyhole Reservoir near Moorcroft.....	95
Shell Creek ranger station, near Shell.	218	Pathfinder Reservoir near Alcova.....	120
Grassy Lake near Moran.....	215	Seminole Reservoir near Leo.....	115
Greasewood Canyon near Green River.....	226	Woodruff Narrows Reservoir near	
Green River, Green River near.....	171	Woodruff, Utah.....	197
Green River, at Warren Bridge, near Daniel...	156	Yellowstone Lake at Bridge Bay,	
below Fontenelle Reservoir.....	165	Yellowstone National Park.....	14
near Big Piney.....	233	Lance Creek, at Spencer.....	91
near Green River.....	171	Lander, Little Popo Agie River near.....	30
near Greendale, Utah.....	182	Laramie-Poudre tunnel near Chambers Lake,	
near La Barge.....	162	Colo., diversion by.....	155
tributary near Fontenelle.....	225	Laramie River and Pioneer Canal near Woods...	136
tributary No. 2 near Burntfork.....	227	Laramie River, above North Laramie River,	
Green River basin, crest-stage partial-		near Uva.....	143
record stations in.....	225-227	at Howell.....	232
discharge measurements at miscellaneous		at Two Rivers.....	232
sites in.....	233-234	near Bosler.....	139
gaging-station records in.....	156-186	near Fort Laramie.....	148
Greendale, Utah, Green River near.....	182	near Glendevey, Colo.....	135
Greybull River, at Meeteetse.....	45	near Lookout.....	140
near Basin.....	230	tributary near Guernsey.....	224
Greys River above Reservoir, near Alpine....	212	tributary No. 2 near Fort Laramie.....	224
Gros Ventre River, at U.S. Highways 26,		Lawn Creek near Alcova.....	223
89, 187, near Jackson.....	235	Leigh Creek near Ten Sleep.....	218
near mouth, near Jackson.....	235	Lenore, Bull Lake Creek near.....	25
Gros Ventre River basin, discharge measure-		Wyoming Canal near.....	27
ments at miscellaneous sites in.....	235	Leo, Seminole Reservoir near.....	115
Guernsey Reservoir, near Guernsey.....	132	Lingle, North Platte River near.....	149
North Platte River below.....	133	Rawhide Creek near.....	150
		Little America, Blacks Fork near.....	178
Hams Fork, below Pole Creek, near Frontier...	177	Little Bighorn River, at State line,	
near Granger.....	234	near Wyola.....	61
Hanna, Medicine Bow River above Seminole		below Pass Creek, near Wyola.....	62
Reservoir, near.....	114	Little Dry Creek near Crowheart.....	216
Hazleton, North Fork Powder River near.....	74	Little Goose Creek in canyon, near Big Horn..	69
Henry, Nebr., Katzer drain near.....	152	Little Laramie River, near Filmore.....	138
Henrys Fork, near Manila, Utah.....	180	at Two Rivers.....	233
tributary near Manila, Utah.....	227	Little Medicine Bow River near Medicine Bow..	113
Henrys Fork basin, discharge measurements		Little Popo Agie River near Lander.....	30
at miscellaneous sites in.....	236	Little Powder River, above Dry Creek,	
reservoir in.....	215	near Weston.....	88
Highline ditch, diversion by, near Dayton...	63	tributary near Gillette.....	220
Hilliard-East Fork Canal near State line,		Little Sandy Creek above Eden.....	168
near Evanston.....	188	Little Snake River, near Dixon.....	185
Hoback River basin, crest-stage partial-		near Slater, Colo.....	183
record stations in.....	228	North Fork, diversion to Hog Park	
Hog Park Creek below Hog Park Reservoir,		Creek, near Encampment.....	234
near Encampment.....	231	Little Tongue River near Dayton.....	64
Horse Creek (Green River basin) at		Little Wind River, above Arapahoe.....	229
Sherman ranger station.....	157	near Riverton.....	31
Horse Creek (Platte River basin) tributary		Lodgepole Creek, tributary near Pine Bluffs..	225
near Little Bear.....	224	tributary No. 2 near Albin.....	225
Hydrologic bench-mark station, definition of.	4	Lookout, Laramie River near.....	140
Hydrologic conditions.....	10	Lovell, Big Coulee near.....	58
		Shoshone River near.....	56
Introduction.....	1	Lyman, Blacks Fork near.....	176
Inyan Kara Creek near Upton.....	221		
Jackson, Cache Creek near.....	210	Manila, Utah, Henrys Fork near.....	180
Jackson Lake near Moran.....	205	Map of Wyoming, showing location of lake	
		and stream gaging stations.....	243
		showing location of partial-record	
		stations.....	245
Kane, Bighorn River at.....	48	Mayoworth, North Fork Powder River below	
Katzer drain near Henry, Nebr.....	152	Pass Creek, near.....	75
Kearny, Piney Creek at.....	86	McKenzie Draw tributary near Casper.....	223
Keyhole Reservoir, near Moorcroft.....	95	Meadow Springs Wash tributary near	
Belle Fourche River below.....	96	Green River.....	226
Kinnear, Wind River near.....	28	Medicine Bow, Little Medicine Bow River near.	113
Kirby Draw near Riverton.....	217	Medicine Bow River, above Seminole Reservoir,	
Kirwin, Wood River near.....	43	near Hanna.....	114
		at Bow ranger station, near Elk Mountain...	110
La Barge, Green River near.....	162	East Fork, near Elk Mountain.....	111
La Barge Creek near La Barge Meadows		tributary near Hanna.....	223
ranger station.....	161	Meeteetse, Greybull River at.....	45
La Prele Creek near Douglas.....	126		

	Page		Page
Michigan ditch at Cameron Pass, Colo., diversion by.....	155	Pavillion, Fivemile Creek above Wyoming Canal, near.....	32
Middle Popo Agie River below The Sinks, near Lander.....	216	Pine Creek above Fremont Lake.....	158
Millburne, Blacks Fork near.....	173	Piney Creek, at Kearny.....	85
Miscellaneous sites, discharge measurements at.....	229-236	at Ucross.....	86
Mitchell, Nebr., North Platte River at.....	154	Pioneer Canal. See Laramie River and Pioneer Canal.	
Monument Draw at lower station, near Hudson..	216	Platte River basin, crest-stage partial- record stations in.....	221-225
Moorcroft, Keyhole Reservoir near.....	95	discharge measurements at miscellaneous sites in.....	231-233
Moran, Buffalo Fork above Lava Creek, near...	208	gaging-station records in.....	102-155
Grassy Lake near.....	215	Poison Creek tributary near Shoshoni.....	217
Jackson Lake near.....	205	Porcupine Creek near Turnercrest.....	220
Pacific Creek at.....	207	Powder River, at Arvada.....	79
Snake River near.....	206	at Moorhead, Mont.....	231
Mud Spring Hollow, near Church Butte, near Lyman.....	226	Middle Fork, near Barnum.....	73
Muddy Creek (tributary to Lodgepole Creek) tributary near Burns.....	225	near Kaycee.....	231
Muddy Creek (tributary to Wind River) near Shoshoni.....	35	North Fork, near Hazelton.....	74
Murphy Draw near Grass Creek.....	217	below Pass Creek, near Mayoworth.....	75
Murray ditch at Wyoming-South Dakota State line.....	98	South Fork, near Kaycee.....	231
New Fork River near Big Piney.....	160	near Powder River.....	219
Newcastle, Beaver Creek near.....	93	tributary near Buffalo.....	220
Ninemile Draw tributary near Federal.....	225	Prairie Dog Creek near Acme.....	71
Niobrara River, at Agate, Nebr.....	101	Pritchard Draw near Lance Creek.....	220
at Wyoming-Nebraska State line.....	100	Publications on streamflow, by Geological Survey.....	9
Niobrara River basin, gaging station records in.....	100-101	Rabbit Creek near Wheatland.....	224
No Name Creek near Rock Springs.....	226	Randolph, Utah, Bear River near.....	199
Norkok Meadows Creek near Fort Washakie.....	216	Rattlesnake Creek near Walcott.....	221
North Brush Creek near Saratoga.....	103	Rawhide Creek near Lingle.....	150
North Laramie River, above Rabbit Creek, near Uva.....	233	Red Creek near Arminto.....	217
at G. Mitchell Ranch, near Uva.....	233	Red Gulch near Shell.....	218
at Interstate Highway 25, near Uva.....	233	Redwater Creek at Wyoming-South Dakota State line.....	99
at Uva.....	233	Reservoirs. See lakes and reservoirs.	
near Wheatland.....	144	Rim Draw near Bondurant.....	228
North Piney Creek near Story.....	84	Riverton, Little Wind River near.....	31
North Platte River, above Seminole Reservoir, near Sinclair.....	109	Wind River at.....	29
above Whalen Dam.....	232	Robertson, Blacks Fork near.....	172
at Alcova.....	122	East Fork of Smith Fork near.....	174
at Mitchell, Nebr.....	154	West Fork of Smith Fork near.....	175
at Old Guernsey Ranch, near Guernsey.....	232	Rock Creek (tributary to Clear Creek) near Buffalo.....	81
at Orin.....	127	Rock Creek (tributary to Medicine Bow River) above King Canyon Canal, near Arlington.....	112
at recorder station, below Whalen.....	134	Rock Creek (tributary to Sweetwater River), above Rock Creek Reservoir.....	116
at Wyoming-Nebraska State line.....	153	at Atlantic City.....	117
below Glendo Reservoir.....	129	Rucker Draw near Spotted Horse.....	220
below Guernsey Reservoir.....	133	Runoff in inches, definition of.....	3
near Glenrock.....	124	Sage Creek (North Platte River basin), near Saratoga.....	107
near Lingle.....	149	tributary near Orpha.....	223
near Northgate, Colo.....	102	Sage Creek (Yellowstone River basin) at Sidon Canal, near Deaver.....	57
tributary near Douglas.....	224	St. Xavier, Mont., Bighorn Lake near.....	59
North Platte River basin in Colorado, transbasin diversions from, to Cache la Poudre River basin.....	155	Bighorn River near.....	60
Northgate, Colo., North Platte River near...	102	Salt Creek near Sussex.....	231
Nowater Creek, East Fork, near Colter.....	41	Salt River above Reservoir, near Etna.....	214
North Prong East Fork, near Worland.....	217	Salt River basin, crest-stage partial- record station in.....	228
Nowood River, at Manderson.....	230	gaging-station records in.....	213-214
near Ten Sleep.....	42	Salt Wells Creek, near Rock Springs.....	226
tributary near Ten Sleep.....	218	tributary near Rock Springs.....	226
tributary No. 2 near Basin.....	218	Sanchez Creek, above reservoir, near Arminto. near Arminto.....	219
Oakley, Utah, West Fork Bear River at Whitney Dam, near.....	189	Sand Creek (tributary to Clear Creek) near Buffalo.....	220
Ogden Creek near Sundance.....	221	Sand Creek (tributary to Laramie River) at Colorado-Wyoming State line.....	137
Onemile Creek near Arlington.....	222	Sand Creek (tributary to North Platte River) near Orin.....	224
Order, downstream, and station numbers.....	4	Sand Draw (tributary to Bighorn River) near Thermopolis.....	217
Orin, North Platte River at.....	127	Sand Draw (tributary to Sage Creek) near Fort Washakie.....	216
Owl Creek, North Fork, above Basin Ranch, near Anchor.....	39	Sand Draw (tributary to Wind River) near Crowheart.....	216
South Fork, below Anchor Reservoir.....	38	Sand Springs Draw tributary near Boulder....	225
near Anchor.....	37	Saratoga, North Brush Creek near.....	103
Pacific Creek at Moran.....	207	Sage Creek near.....	107
Paint Creek at mouth, near Clark.....	229	South Brush Creek near.....	104
Paint Rock Creek near mouth, below Hyattville.....	230	Selected references.....	11
Partial-record station, definition of.....	3	Seminole Reservoir near Leo.....	115
Partial-record stations, discharge at.....	216-228		
Pass Creek near Elk Mountain.....	108		
Pat O'Hara Creek at mouth, near Clark.....	229		
Pathfinder Reservoir near Alcova.....	120		

	Page		Page
Sevenmile Creek near Centennial.....	224	Torrington, Cherry Creek drain near.....	151
Shawnee Creek tributary near Orin.....	224	Trail Creek at State line, near Wilson.....	236
Sheep Creek, near Marshall.....	222	Transbasin diversions from North Platte	
near Medicine Bow.....	222	River basin to Cache la Poudre River	
Shell Creek, above Shell Reservoir.....	46	basin in Colorado.....	155
near Greybull.....	230	Trout Creek (tributary to Little Wind River)	
near Shell.....	47	near Fort Washakie.....	216
Shell Reservoir, Shell Creek above.....	46	Trout Creek (tributary to North Fork	
Sheridan, Big Goose Creek near.....	68	Shoshone River) near Wapiti.....	219
Goose Creek below.....	70	Turner Creek near Osage.....	221
Shoshone River, above Dry Creek, near Cody... 230		Twentyfour Mile Creek near Emblem.....	218
at Willwood.....	52		
below Buffalo Bill Reservoir.....	51	Ucross, Piney Creek at.....	86
near Garland.....	53	Uva, Chugwater Creek near.....	147
near Lovell.....	56	Laramie River above North Laramie	
South Fork, above Buffalo Bill Reservoir... 50		River, near.....	143
near Valley.....	49	Wheatland Creek near.....	146
Shoshoni, Fivemile Creek near.....	33		
Muddy Creek near.....	35	Valley, South Fork Shoshone River near.....	49
Shotgun Creek tributary near Pavillion.....	217	Van Houten Draw near Buffalo.....	219
Silver Tip Creek near Belfry, Mont.....	20		
Sinclair, North Platte River above		Wagon Gulch near Dubois.....	216
Seminole Reservoir, near.....	109	Wagonhound Creek near Elk Mountain.....	222
Skunk Canyon Creek near Green River.....	225	Watson Draw near Lost Springs.....	224
Skyline ditch at Chambers Lake, Colo.,		Wendover, Cottonwood Creek at.....	131
diversion by.....	155	Weston, Little Powder River above Dry	
Slater, Colo., Little Snake River near.....	183	Creek, near.....	88
Slater Fork near.....	184	Whalen, North Platte River at recorder	
Slater Creek near Monarch.....	219	station, below.....	134
Slater Fork near Slater, Colo.....	184	Wheatland, Bluegrass Creek near.....	142
Smith Fork, East Fork of, near Robertson.....	174	North Laramie River near.....	144
near Lyman.....	234	Sybille Creek above Mule Creek, near.....	141
West Fork of, near Robertson.....	175	Wheatland Creek near Uva.....	146
Smiths Fork near Border.....	201	Whistle Creek near Garland.....	55
Snake River, above Flat Creek, near Jackson.. 235		Whitney Canyon Creek near Evanston.....	227
above Reservoir, near Alpine.....	211	Willow Creek (Green River basin)	
above Spread Creek, near Moran.....	234	near Dixon.....	186
above upper Schwabacher Landing, Grand		Willow Creek (Yellowstone River basin)	
Teton National Park.....	234	near Kane.....	219
at Moose, Grand Teton National Park.....	235	Willow Park, South Piney Creek at.....	82
near Moran.....	206	Willwood, Shoshone River at.....	52
near Wilson.....	209	Wilson, Snake River near.....	209
Snake River basin, crest-stage partial-		Wilson Supply ditch near Eaton Reservoir,	
record stations in.....	228	Colo., diversion by.....	155
discharge measurements at miscellaneous		Wind River, above Boysen Reservoir, near	
sites in.....	234-236	Shoshoni.....	229
gaging-station records in.....	205-215	at Riverton.....	29
Sour Moose Creek near Bondurant.....	228	below Boysen Reservoir.....	36
South Bridger Creek near Lysite.....	217	near Crowheart.....	26
South Brush Creek near Saratoga.....	104	near Dubois.....	21
South Piney Creek, at Willow Park.....	82	near Kinnear.....	28
near Story.....	83	tributary No. 2 near Crowheart.....	216
Special networks and programs.....	4	Wolf Creek at Wolf.....	65
Spencer, Cheyenne River near.....	92	Wood River, at Kirwin.....	230
Lance Creek at.....	91	at Sunshine.....	44
Spread Creek near Moran, Grand Teton		Middle Fork, near Kirwin.....	230
National Park.....	234	near Kirwin.....	43
Spring Creek (Snake River basin) near		Woodruff Narrows Reservoir near	
Jackson.....	235	Woodruff, Utah.....	197
Spring Creek (Yellowstone River basin)		Woodruff, Utah, Bear River above reservoir,	
near Ten Sleep.....	218	near.....	196
Squaw Hollow near Burntfork.....	227	Bear River below reservoir, near.....	198
Stage-discharge relation, definition of.....	3	Woodruff Narrows Reservoir near.....	197
State Ditch near Clark.....	229	Woods, Laramie River and Pioneer	
Stinking Creek near Alcova.....	223	Canal near.....	136
Story, North Piney Creek near.....	84	WRD, definition of.....	3
South Piney Creek near.....	83	WSP, definition of.....	3
Sulphur Creek, above Reservoir, near Evanston 192		Wyola, Mont., Little Bighorn River at	
below Reservoir, near Evanston.....	193	State line, near.....	61
Summers Dry Creek near Green River.....	227	Little Bighorn River below Pass	
Sunshine, Wood River at.....	44	Creek, near.....	62
Sweetwater River, near Sweetwater Station... 118		Wyoming Canal near Lenore.....	27
near Alcova.....	119		
near South Pass City.....	223	Yellow Creek near Evanston.....	194
Sweetwater Station, Sweetwater River near... 118		Yellowstone Lake at Bridge Bay,	
Swift Creek near Afton.....	213	Yellowstone National Park.....	14
Sybille Creek above Mule Creek, near		Yellowstone National Park:	
Wheatland.....	141	Yellowstone Lake at Bridge Bay.....	14
		Yellowstone River at Yellowstone	
Ten Sleep, Nowood River near.....	42	Lake Outlet.....	15
Teton Creek near Alta.....	236	Yellowstone River, at Corwin Springs, Mont... 16	
Third Sand Creek, near Medicine Bow.....	222	at Yellowstone Lake Outlet, Yellowstone	
Thomas Fork near Wyoming-Idaho State line... 204		National Park.....	15
Threemile Creek near Arlington.....	222	Yellowstone River basin, crest-stage	
Tie Down Gulch near Worland.....	217	partial-record stations in.....	216-220
Tipperary, Crow Creek near.....	23	discharge measurements at miscellaneous	
Tongue River, at Monarch.....	230	sites in.....	229-231
at State line, near Decker, Mont.....	72	gaging-station records in.....	13-88
near Dayton.....	63	reservoirs in.....	89-90



U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
4015 Warren Avenue
P. O. Box 2087
Cheyenne, Wyoming 82001

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF THE INTERIOR
INT 413

USGS LIBRARY - RESTON



3 1818 00474080 7

