

Statistical Summaries of Streamflow Data for Selected Gaging Stations in Idaho and Western Wyoming Through September 1990—Volume 2: Gaging Stations with 5 to 9 Years of Record or that Measure Discharge from Springs

U.S. Geological Survey
Water-Resources Investigations Report 94-4070



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By L.C. Kjelstrom, M.A.J. Stone, and W.A. Harenberg

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Water-Resources Investigations Report 94–4070

Boise, Idaho
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CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATIONS

	Multiply	By	To obtain
acre		4,047	square meter
cubic foot per second (ft ³ /s)		0.02832	cubic meter per second
foot (ft)		0.3048	meter
mile (mi)		1.609	kilometer
square mile (mi ²)		2.590	square kilometer

Sea level: In this report, “sea level” refers to the National Geodetic Vertical Datum of 1929—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Abbreviations

USGS, U.S. Geological Survey
WDR, Water-data report
WSP, Water-Supply Paper

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By L.C. Kjelstrom, M.A.J. Stone, and W.A. Harenberg

Abstract

This volume presents statistical summaries of streamflow data for 76 gaging stations with 5 to 9 years of continuous record, or with records of discharge measurements from springs, through September 1990. The gaging stations are located in Idaho and western Wyoming. Some of the gaging stations at which spring discharge is measured have 10 or more years of record. Volume 1 presents statistical summaries of streamflow data for 257 gaging stations with 10 or more years of continuous record through September 1990. The gaging stations are located in Idaho and adjacent States.

Streamflow statistics generated for gaging stations with 5 to 9 years of record or that measure discharge from springs were (1) magnitudes of monthly and annual flows; (2) duration of daily mean flows; and (3) maximum, median, and minimum daily mean flows. Streamflow statistics generated for stations with 10 or more years of record (volume 1) were (1) magnitudes of monthly and annual flows; (2) magnitudes and frequencies of daily low, high, instantaneous peak (flood frequency), and annual mean flows; (3) duration of daily mean flows; and (4) maximum, median, and minimum daily mean flows.

INTRODUCTION

Information concerning streamflow characteristics is essential for the development and management of surface-water resources. Statistical analysis of streamflow records provides information about the spatial and temporal characteristics of streamflow. Project designers, land-use managers, and hydrologists need information on all aspects of streamflow to evaluate various hydraulic and hydrologic designs or land-use alternatives.

This volume presents statistical summaries of streamflow data for 76 gaging stations with 5 to 9 years of continuous record, or with records of discharge measurements from springs. The gaging stations are located in Idaho and in the headwaters of the Snake River in western Wyoming. Some of the gaging stations at which spring discharge is measured have 10 or more years of record. Volume 1 presents statistical summaries of streamflow data for 257 gaging stations with 10 or more years of continuous record. The gaging stations are located in Idaho and adjacent States.

Streamflow statistics generated for gaging stations with 5 to 9 years of record or with records of discharge measurements from springs were (1) magnitudes of monthly and annual flows; (2) duration of daily mean flows; and (3) maximum, median, and minimum daily mean flows. Because of the relatively steady discharge of springs and short period of record at other gaging stations, fewer statistical data are provided in this volume than in volume 1. Magnitudes at selected exceedance probabilities were not computed for low, high, peak, and annual streamflows.

Monthly and mean annual flows and flow-duration data were computed using records through the 1990 water year (October 1, 1989, through September 30, 1990). If a gaging station had been discontinued before 1990, records through September 30 of the last year in which data were collected were used for analysis.

Gaging stations are assigned 8-digit numbers for identification (appendix 1). The first two digits are a part number and refer to a major drainage basin. Parts 6, 10, 12, and 13 refer to the Missouri River Basin, Great Basin, Pacific Slope Basins, and Snake River Basin, respectively. The six digits that follow are assigned to the gaging station on the basis of downstream order (numbers increase from headwaters to mouth).

EXPLANATION OF STATISTICAL SUMMARIES

Statistical summaries of streamflow data are presented (appendix 2) for 76 gaging stations shown in figures 1–8 (back of report). The description of each gaging station includes the location of the gage, drainage area, period of record, description of the gage, remarks pertinent to the quality of streamflow records and to conditions that affect the flow, extremes for the period of record, and known extremes outside the period of record.

Water is diverted and regulated by storage reservoirs upstream from many gaging stations. The development of storage reservoirs and the diversion of water for irrigation affect monthly and annual means, low and high frequencies, peaks, and durations of streamflow. Streamflow may be affected not only by the construction of a storage reservoir, but also by changes in its operation. For example, a storage reservoir that originally was used only to store irrigation water later may be operated for flood control, power generation, and recreation. The amount of water diverted for irrigation varies with changes in climate, irrigated acreage, and irrigation practices.

Tabulations and graphs for each gaging station (appendix 2) include the magnitudes of monthly and annual flows; duration of daily mean flows; and maximum, median, and minimum daily mean flows. The statistical summaries are based on years of recorded streamflow at the gaging station shown in each table heading. Statistical summaries for specific periods of record can be obtained by contacting the USGS district office at the address shown on the back of the title page.

Monthly and Annual Flow

Monthly and annual flow tabulations for the period of record include the maximum, minimum, and mean monthly and mean annual flow, the standard deviation of the mean, the coefficient of variation (ratio of the standard deviation to the mean), and the percentage of average annual runoff for each month. Annual flows are based on the water year, which ends September 30. The water year generally is used because the growing season is at an end, and surface-water storage is near a minimum on that date as a result of heavy water use during the preceding summer. In nonirrigated areas, ground-water and soil-moisture storage also is near minimum.

Flow Duration

Flow-duration tabulations show the data necessary to plot a standard flow-duration curve, which is a cumulative frequency curve that shows the percentage of time that specified daily flows were equaled or exceeded during the period of record. The tabulations show the flows, in cubic feet per second, that were equaled or exceeded for a given percentage of time.

Maximum-Median-Minimum Discharge

The maximum-median-minimum discharge graph (fig. 9) shows the highest, median, and lowest flow past the gaging station during the period of record for each day of the year. A minimum of 0.01 ft³/s, or five logarithmic cycles below the maximum flow, was the minimum discharge graphed.

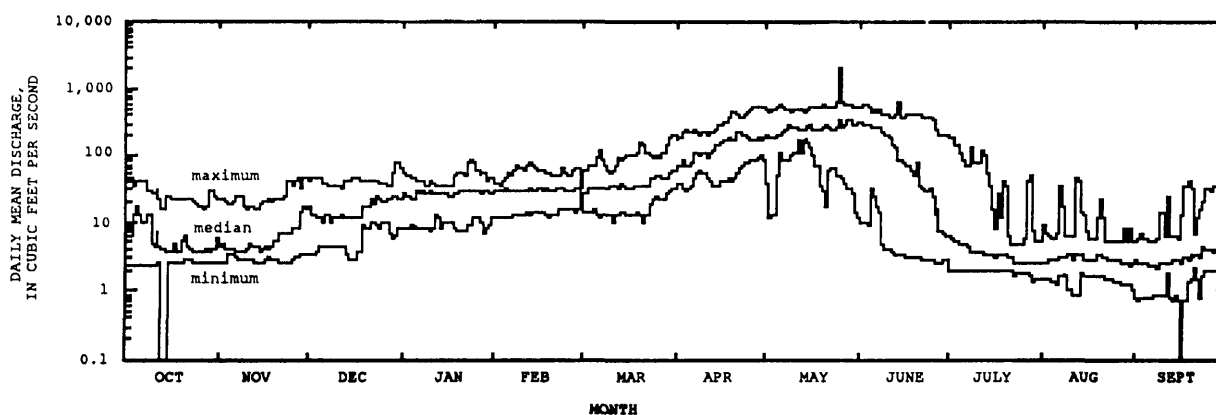


Figure 9. Maximum-median-minimum discharge for a selected streamflow-gaging station.

FIGURES 1 – 8

p. 3
(p. 5 follows)

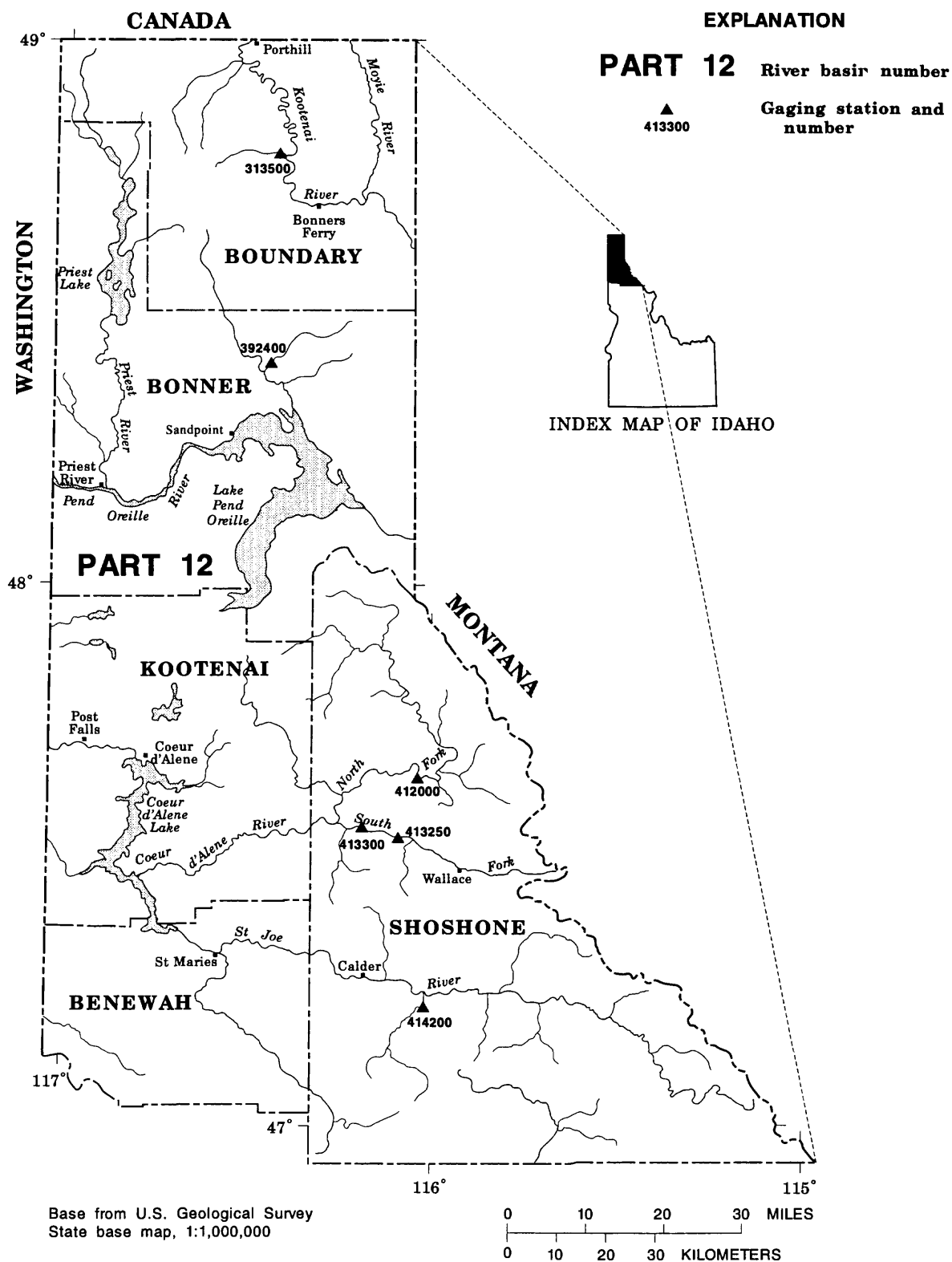


Figure 1. Locations of streamflow-gaging stations in north Idaho.

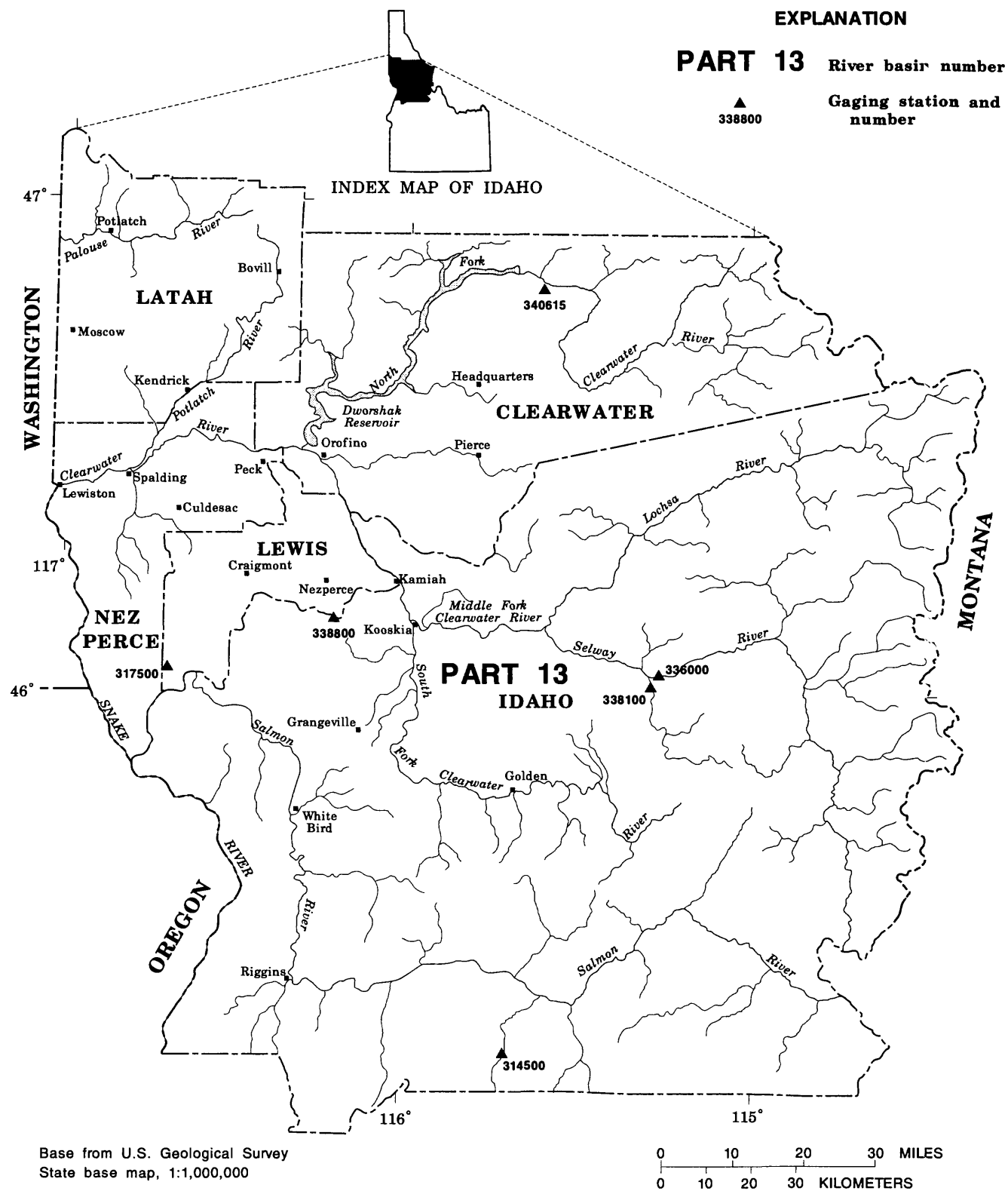


Figure 2. Locations of streamflow-gaging stations in north-central Idaho.

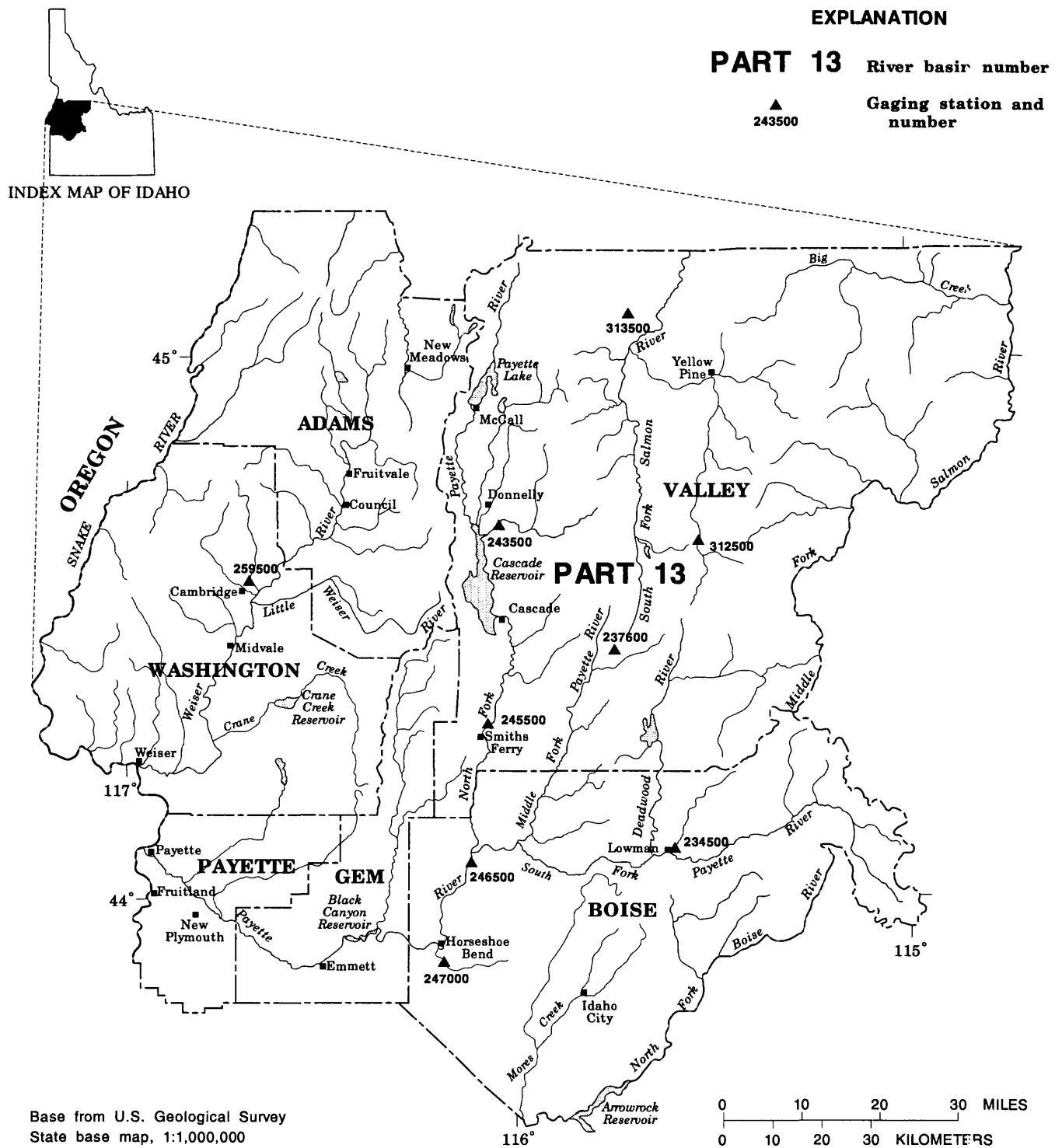


Figure 3. Locations of streamflow-gaging stations in west-central Idaho.

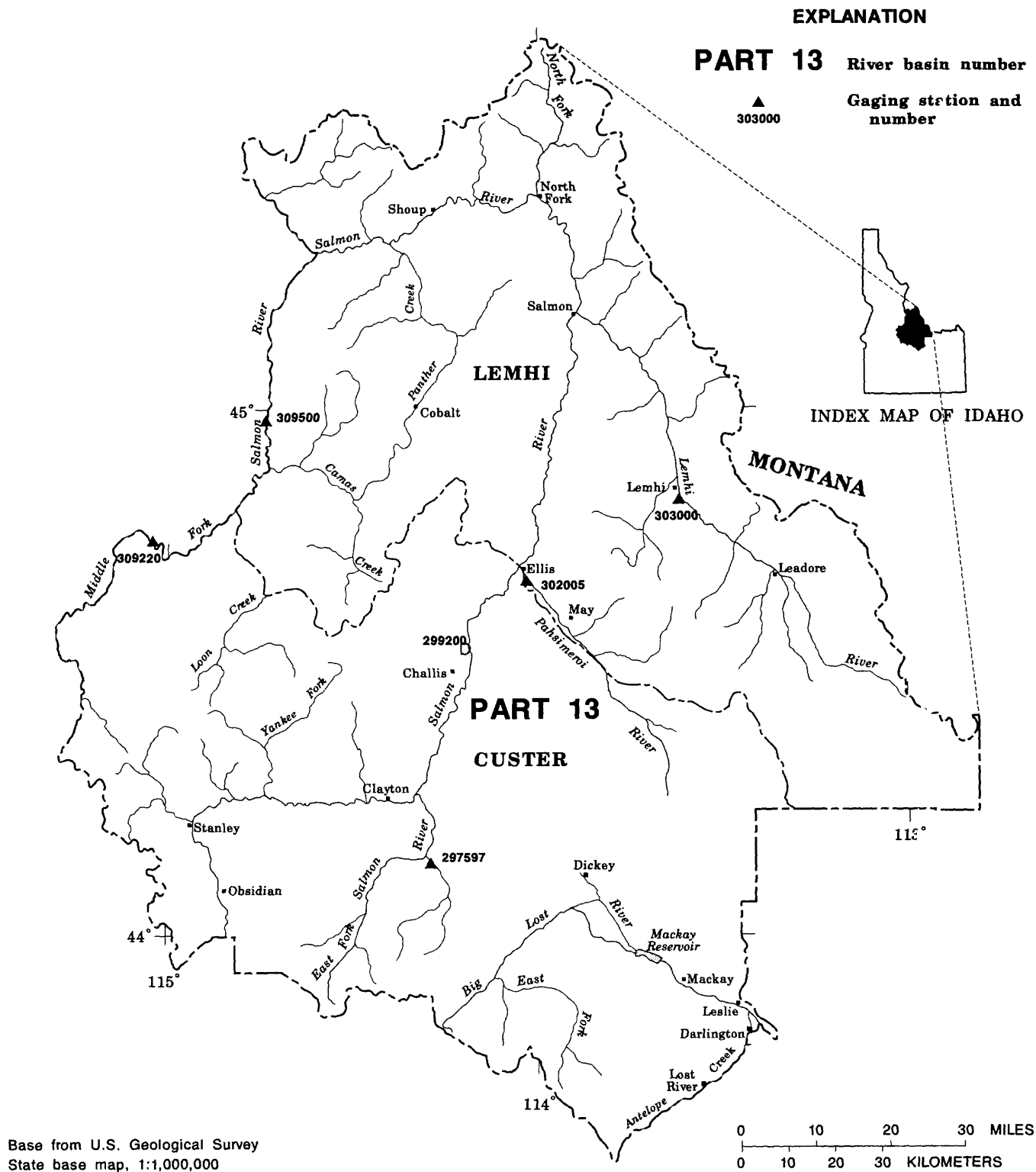


Figure 4. Locations of streamflow-gaging stations in east-central Idaho.

EXPLANATION

PART 13 River basin number

▲
184500

Gaging station and
number

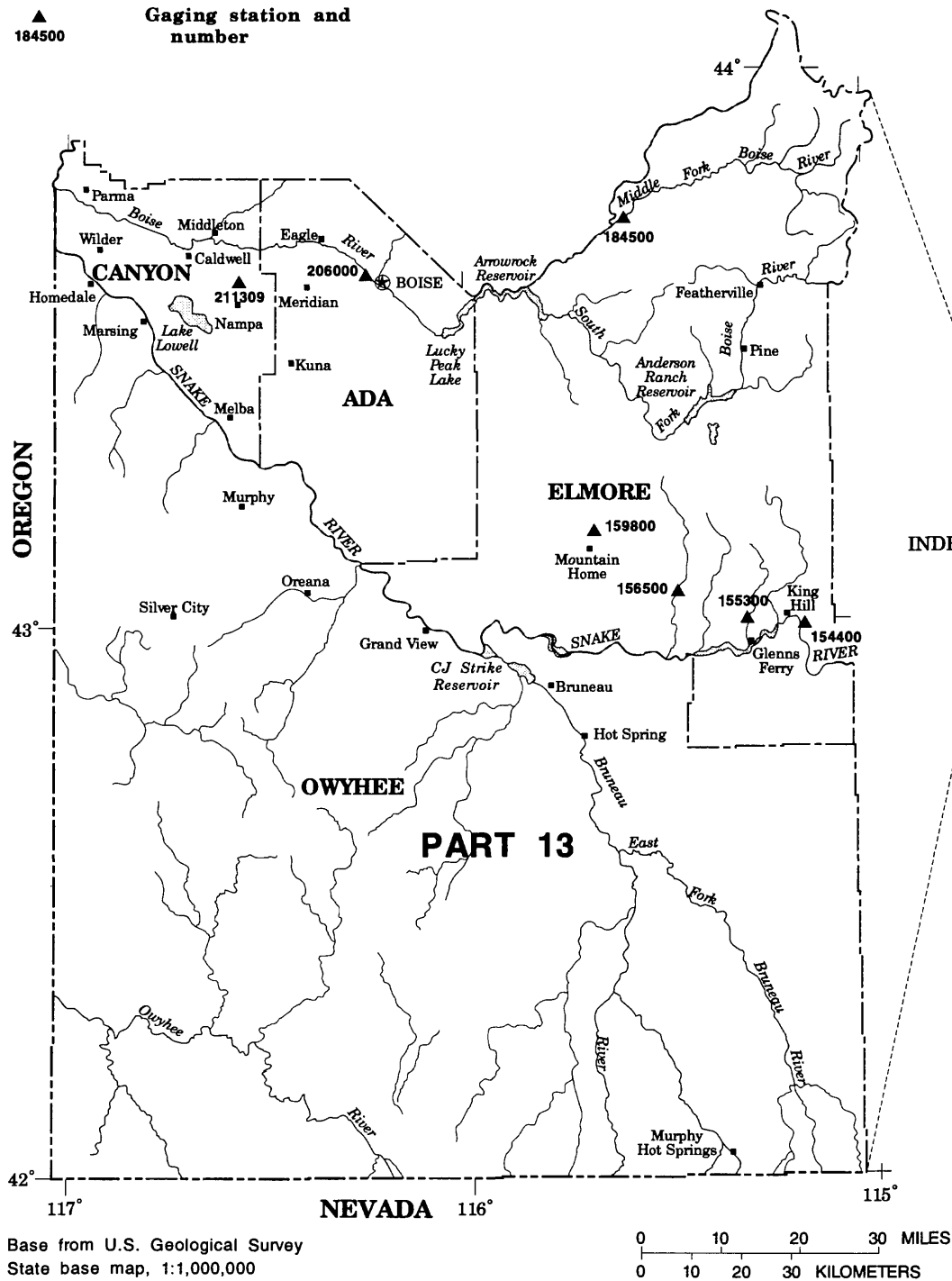


Figure 5. Locations of streamflow-gaging stations in southwest Idaho.

EXPLANATION

PART 13 River basin number

▲
154000

Gaging station and
number

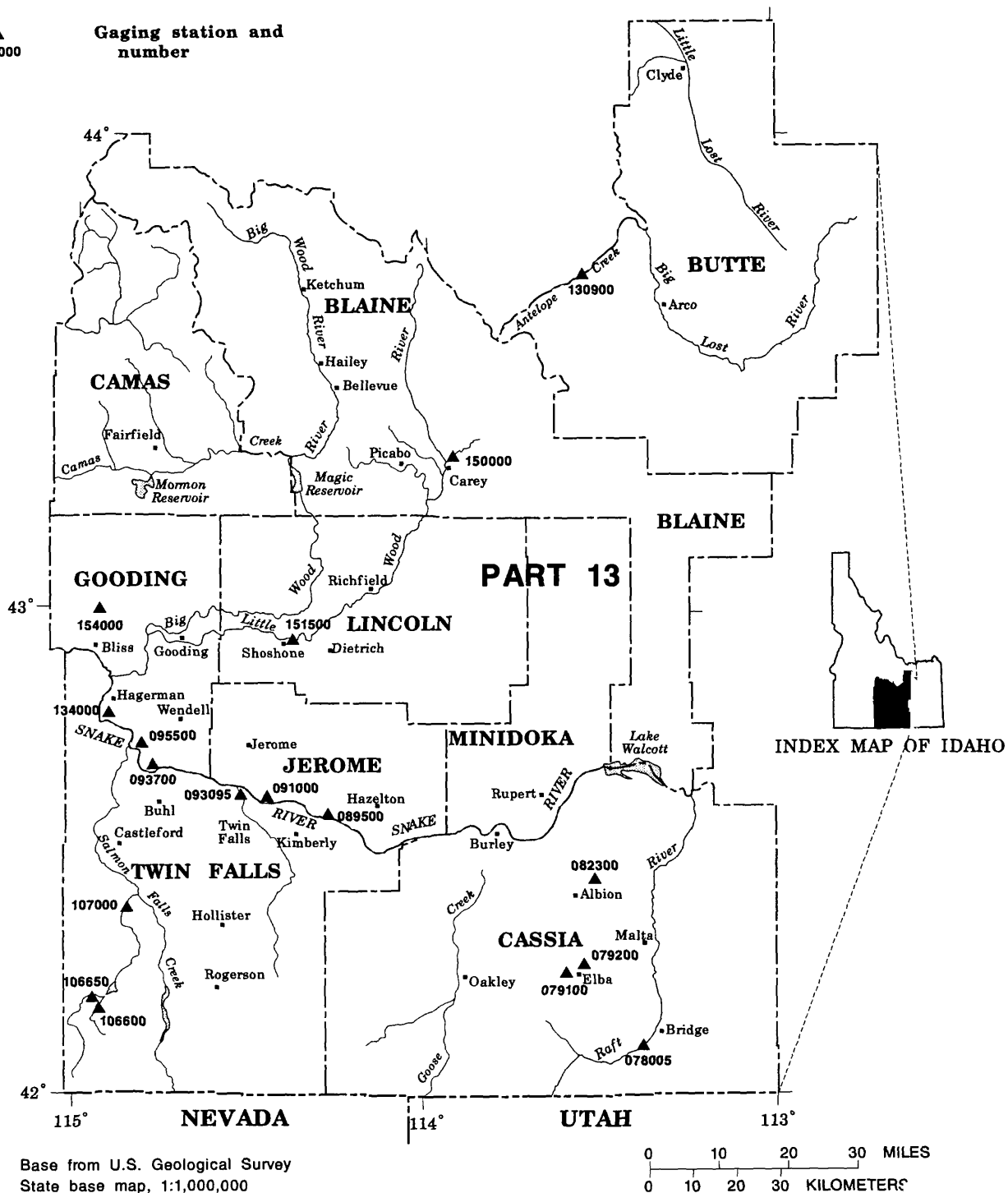


Figure 6. Locations of streamflow-gaging stations in south-central Idaho.

EXPLANATION

PART 13 River basin boundary and number

▲ Gaging station and number
055319

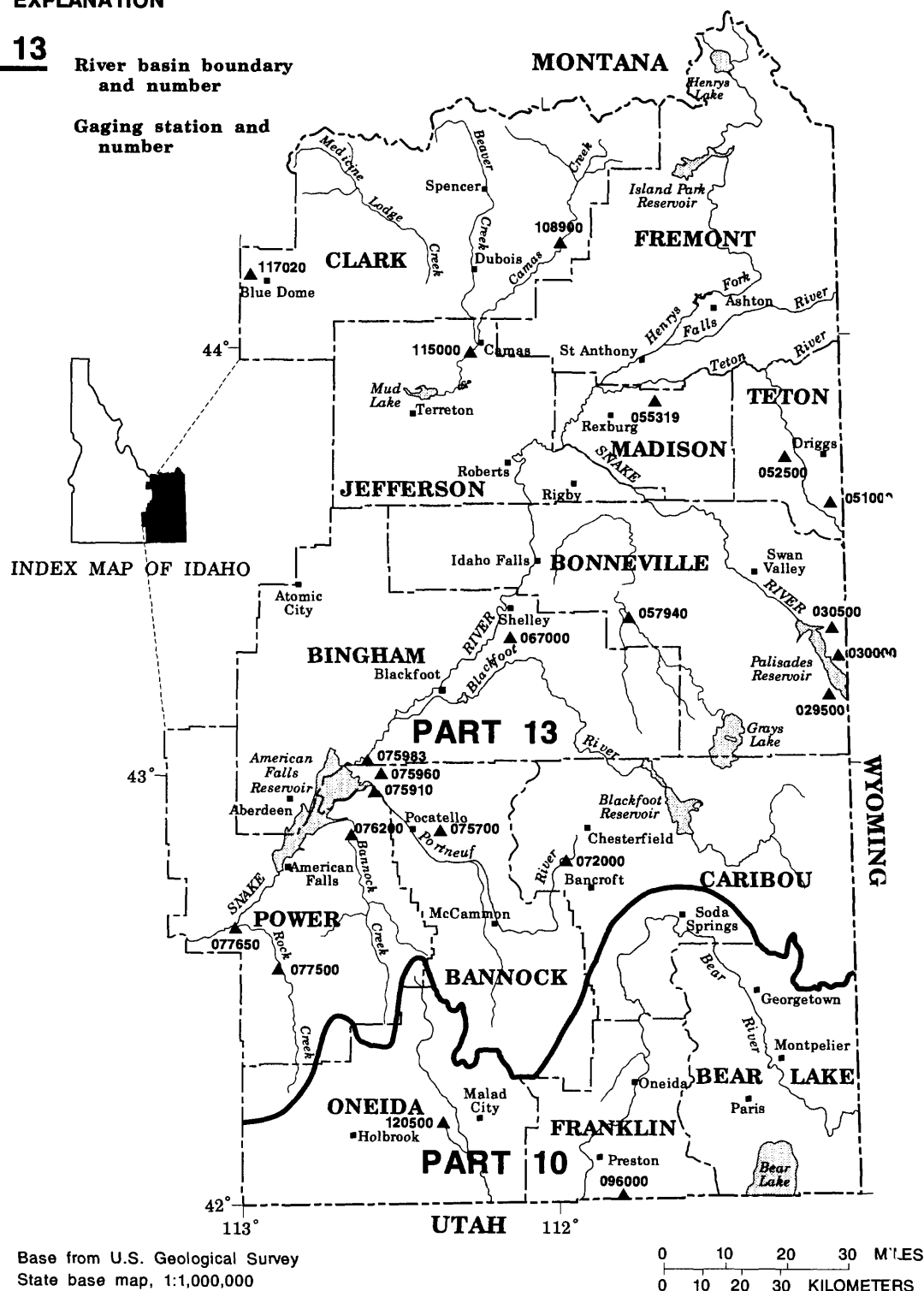


Figure 7. Locations of streamflow-gaging stations in southeast Idaho.

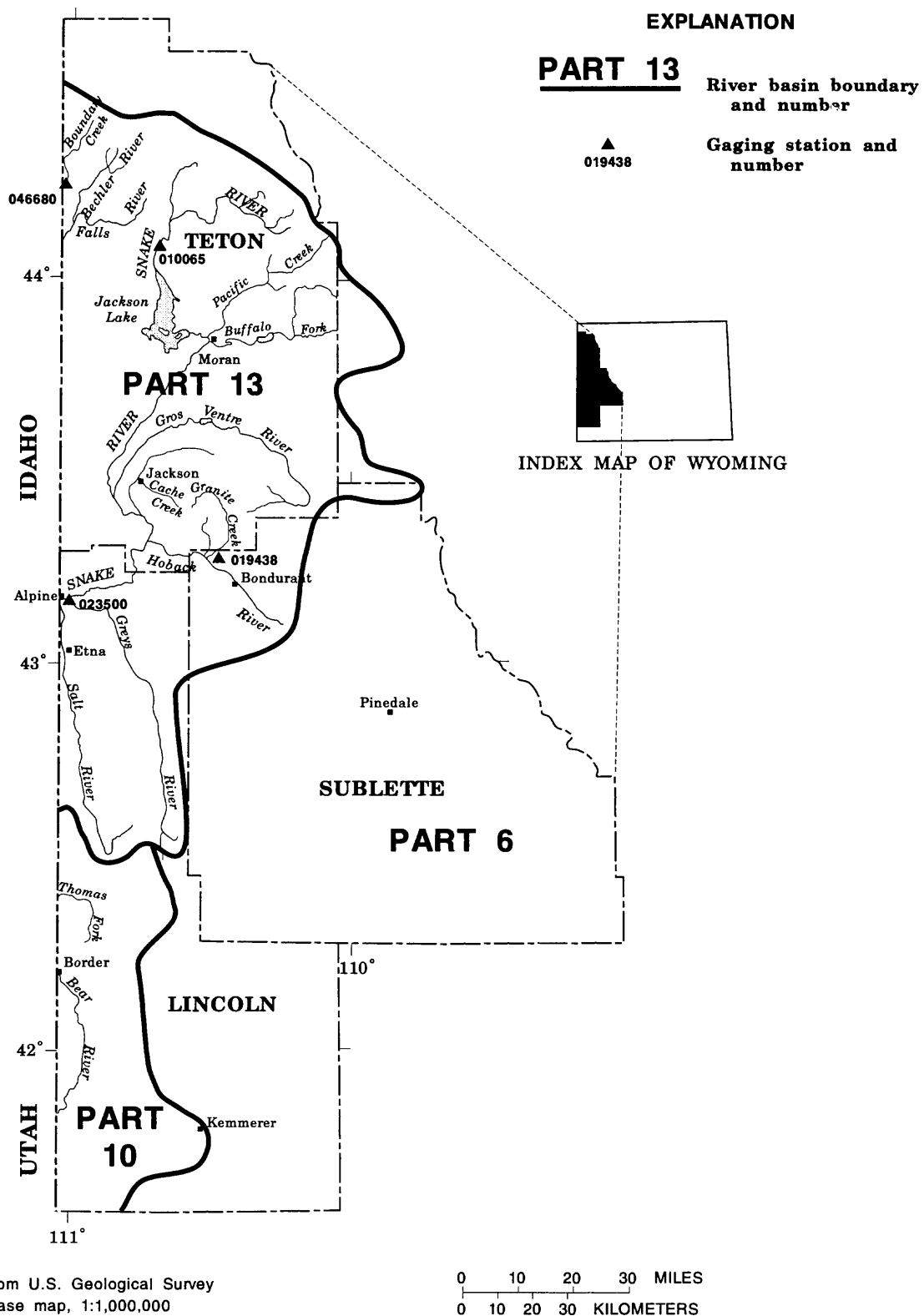


Figure 8. Locations of streamflow-gaging stations in western Wyoming.

APPENDIX 1

LIST OF STREAMFLOW-GAGING STATIONS, IN DOWNSTREAM ORDER

Appendix 1. List of streamflow-gaging stations, in downstream order

Number	Name	Page	Number	Name	Page
10096000	Cub River above Maple Creek, near Franklin, ID	19	13107000	Cedar Creek near Roseworth, ID	58
10120500	Little Malad River below Sand Ridge Dam site, near Malad City, ID	20	13108900	Camas Creek at Red Road, near Kilgore, ID	59
12313500	Ball Creek near Bonners Ferry, ID	21	13111500	Camas Creek near Camas, ID	60
12392400	Rapid Lightning Creek near Samuels, ID	22	13117020	Birch Creek at Blue Dome Inn, near Reno, ID	61
12412000	Coeur d'Alene River near Prichard, ID	23	13130900	Antelope Creek above Willow Creek, near Darlington, ID	62
12413250	South Fork Coeur d'Alene River at Kellogg, ID	24	13134000	Riley Creek below Lewis Spring, near Hagerman, ID	63
12413300	South Fork Coeur d'Alene River at Smelterville, ID	25	13150000	Fish Creek near Carey, ID	64
12414200	Marble Creek near Calder, ID	26	13151500	Little Wood River at Shoshone, ID	65
13010065	Snake River above Jackson Lake, at Flagg Ranch, WY	27	13154000	Clover Creek near Bliss, ID	66
13019438	Little Granite Creek at mouth, near Bondurant, WY	28	13154400	Clover Creek near King Hill, ID	67
13023500	Snake River below Greys River, at Alpine, WY	29	13155300	Little Canyon Creek at Stout Crossing, near Glenns Ferry, ID	68
13029500	McCoy Creek above reservoir, near Alpine, WY	30	13156500	Bennett Creek near Bennett, ID	69
13030000	Indian Creek above reservoir, near Alpine, WY	31	13159800	Canyon Creek at Oregon Trail Crossing, near Mountain Home, ID	70
13030500	Elk Creek above reservoir, near Irwin, ID	32	13184500	Middle Fork Boise River near Twin Springs, ID	71
13046680	Boundary Creek near Bechler Ranger Station, WY	33	13206000	Boise River at Glenwood Bridge, near Boise, ID	72
13051000	Trail Creek near Victor, ID	34	13211309	Indian Creek above Waste Water Plant, near Nampa, ID	73
13052500	Horseshoe Creek near Driggs, ID	35	13234500	Clear Creek at Lowman, ID	74
13055319	Moody Creek near Rexburg, ID	36	13237600	Cabin Creek near Smiths Ferry, ID	75
13057940	Willow Creek below Tex Creek, near Ririe, ID	37	13243500	Gold Fork River near Roseberry, ID	76
13067000	Sand Creek near Firth, ID	38	13245500	North Fork Payette River near Smiths Ferry, ID	77
13072000	Portneuf River near Pebble, ID	39	13246500	Payette River at Banks, ID	78
13075700	South Fork Pocatello Creek near Pocatello, ID	40	13247000	Porter Creek near Gardena, ID	79
13075910	Portneuf River at Tyhee, ID	41	13259500	Rush Creek at Cambridge, ID	80
13075960	Ross Fork near Fort Hall, ID	42	13297597	Herd Creek below Trail Gulch, near Clayton, ID	81
13075983	Spring Creek at Sheepskin Road, near Fort Hall, ID	43	13299200	Challis Creek below Jeffs Creek, near Challis, ID	82
13076200	Bannock Creek near Pocatello, ID	44	13302005	Pahsimeroi River at Ellis, ID	83
13077500	Rock Creek near Rockland, ID	45	13303000	Texas Creek near Leadore, ID	84
13077650	Rock Creek near American Falls, ID	46	13309220	Middle Fork Salmon River at Middle Fork Lodge, near Yellow Pine, ID	85
13078205	Raft River below Onemile Creek, near Malta, ID	47	13309500	Middle Fork Salmon River near Meyers Cove, ID	86
13079100	Cassia Creek above Stinson Creek, near Elba, ID	48	13312500	Johnson Creek near Landmark Ranger Station, ID	87
13079200	Cassia Creek near Elba, ID	49	13313500	Secesh River near Burgdorf, ID	88
13082300	Marsh Creek near Albion, ID	50	13314500	Warren Creek near Warren, ID	89
13089500	Devils Washbowl Spring near Kimberly, ID	51	13317500	Deer Creek near Winchester, ID	90
13091000	Blue Lakes Spring near Twin Falls, ID	52	13336000	Selway River above Meadow Creek, near Lowell, ID	91
13093095	Rock Creek at mouth, near Twin Falls, ID	53	13336100	Meadow Creek near Lowell, ID	92
13093700	Niagara Springs near Twin Falls, ID	54	13338800	Lawyer Creek near Nezperce, ID	93
13095500	Box Canyon Springs near Twin Falls, ID	55	13340615	Beaver Creek near Canyon Ranger Station, ID ..	94
13106600	Cedar Creek above reservoir, near Roseworth, ID	56			
13106650	House Creek near Roseworth, ID	57			

APPENDIX 2

**DESCRIPTIONS OF STREAMFLOW-GAGING STATIONS AND TABLES
AND GRAPHS OF FLOW STATISTICS**

p. 17

(p. 19 follows)

BEAR RIVER BASIN

10096000 CUB RIVER ABOVE MAPLE CREEK, NEAR FRANKLIN, ID

LOCATION.—Lat 42°03', long 111°47', in SW 1/4, sec.9, T.16 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on left bank 1.5 mi upstream from Maple Creek and 2.5 mi north of Franklin.

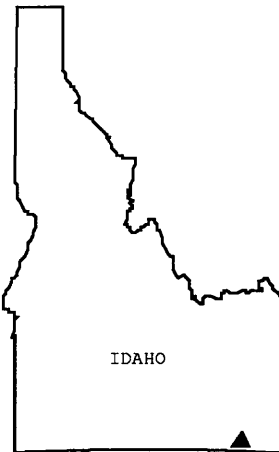
DRAINAGE AREA.—53.7 mi².

PERIOD OF RECORD.—March 1940 to September 1952.

GAGE.—Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map. Prior to June 13, 1951, at datum 1.0 ft higher.

REMARKS.—Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas. Franklin-Cub River pumping station is the only diversion between station and Idaho-Utah State line.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 740 ft³/s May 25, 1950, gage height, 4.80 ft; minimum daily, 0.6 ft³/s Sept. 16, 1948.



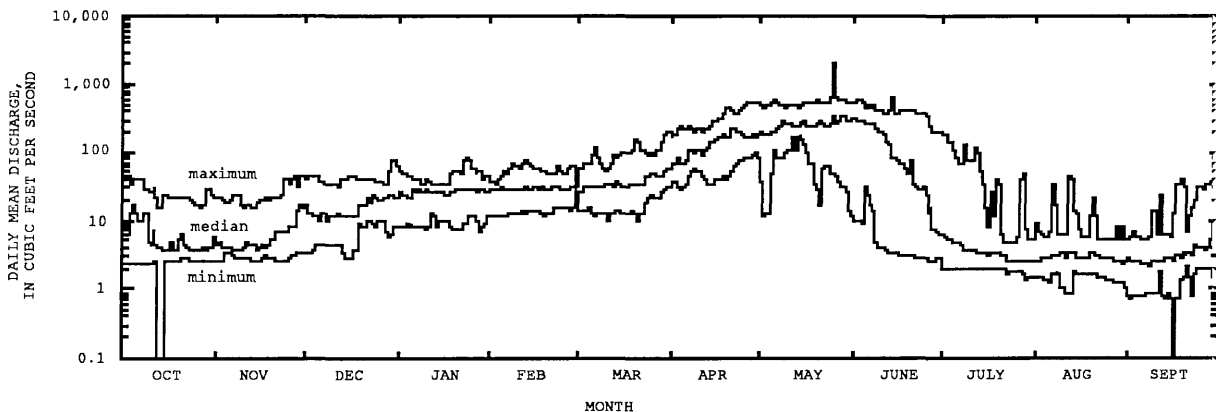
LOCATION MAP

Summary of monthly and annual discharges, 1941-43, 1945-52

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	21	2.6	9.9	7.2	0.73	1.3
November	17	3.0	8.6	4.8	0.55	1.0
December	34	9.5	20	8.6	0.43	2.6
January	42	12	26	9.0	0.34	3.3
February	52	19	31	8.9	0.29	3.8
March	82	17	45	19	0.43	5.7
April	296	72	165	74	0.45	21.2
May	360	209	294	52	0.18	37.8
June	362	18	161	106	0.66	20.7
July	49	2.0	8.9	13	1.5	1.1
August	8.0	1.7	3.9	2.0	0.52	0.5
September	8.4	2.5	5.3	1.9	0.35	0.7
Annual	93	34	65	15	0.22	100

Duration table of daily mean flow for period of record 1941-43, 1945-52

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
503	331	224	163	85	37	29	21	12	5.1	3.7	2.7	2.3	1.9	1.7	1.2	0.75



BEAR RIVER BASIN

10120500 LITTLE MALAD RIVER BELOW SAND RIDGE DAM SITE, NEAR MALAD CITY, ID

LOCATION.—Lat 42°12', long 112°20', in SE 1/4, sec.14, T.14 S., R.35 E., Oneida County, Hydrologic Unit 16010204, on right bank 0.6 mi below proposed Sand Ridge dam site, 1.25 mi below unnamed tributary, 3.5 mi west of Malad City, and 9 mi downstream from Elkhorn Reservoir.

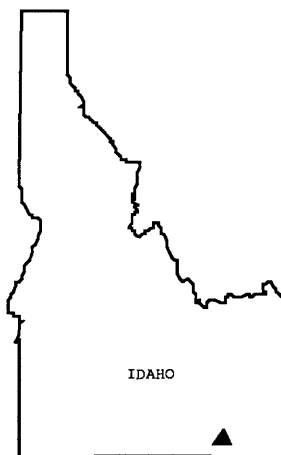
DRAINAGE AREA.—223 mi².

PERIOD OF RECORD.—October 1945 to June 1951.

GAGE.—Water-stage recorder.

REMARKS.—Diversions above station for irrigation of about 4,000 acres.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 240 ft³/s Feb. 22, 1948, gage height, 9.6 ft (from floodmark, by submerged orifice method); minimum discharge recorded, 0.1 ft³/s Sept. 7, 1947, Oct. 17-23, 1950; minimum gage height observed, 1.48 ft Dec. 22, 1950, Jan. 1, 1951.



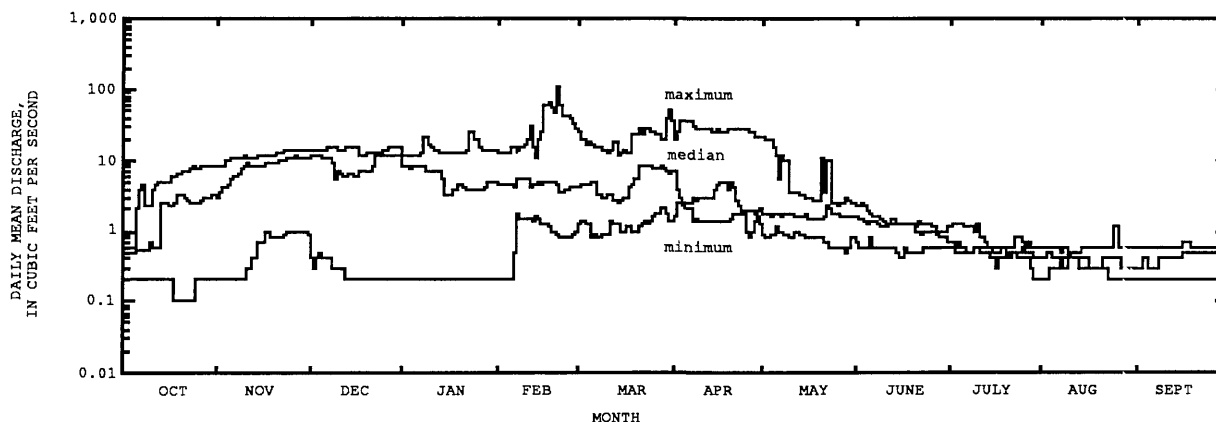
LOCATION MAP

Summary of monthly and annual discharges, 1946-49

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	4.4	0.62	2.6	2.1	0.79	3.8
November	12	1.3	7.7	4.6	0.59	11.1
December	14	4.0	10	4.2	0.42	14.6
January	14	4.1	9.5	4.6	0.49	13.7
February	24	4.6	13	10	0.75	19.2
March	18	2.9	11	6.2	0.57	15.7
April	27	2.8	10	11	1.1	14.6
May	6.1	0.78	2.6	2.4	0.92	3.8
June	1.4	0.59	1.1	0.34	0.32	1.5
July	0.63	0.45	0.54	0.07	0.14	0.8
August	0.58	0.33	0.41	0.12	0.28	0.6
September	0.60	0.25	0.43	0.15	0.34	0.6
Annual	9.6	2.9	5.7	3.1	0.54	100

Duration table of daily mean flow for period of record 1946-49

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
34	21	15	13	12	7.0	3.9	2.1	1.3	0.68	0.59	0.46	0.31	0.21	0.19	0.19	0.18



KOOTENAI RIVER BASIN

12313500 BALL CREEK NEAR BONNERS FERRY, ID

LOCATION.—Lat 48°47'40", long 116°24'54", in SW 1/4, NW 1/4, SW 1/4, sec.24, T.63 N., R.1 W., Boundary County, Hydrologic Unit 17010104, on right bank 600 ft above county road bridge, 0.5 mi upstream from mouth, and 8.2 mi northwest of Bonners Ferry.

DRAINAGE AREA.—26.6 mi².

PERIOD OF RECORD.—June to September 1928, April to August 1929, April to September 1930, March to September 1931-34, September 1971 to September 1979.

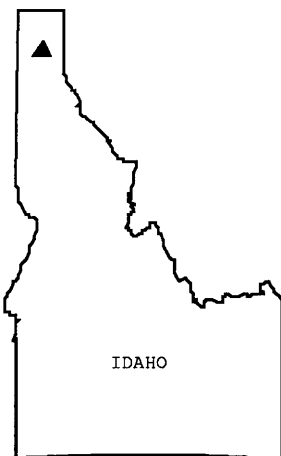
GAGE.—Water-stage recorder. Elevation of gage is 1,820 ft above sea level, from topographic map. June 1928 to September 1934, nonrecording gage at site 30 ft downstream at same datum.

REMARKS.—Diversion above station varies from 10 ft³/s during high stages to approximately 50 percent of flow during July to September.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,180 ft³/s June 17, 1974, gage height, 7.27 ft; minimum observed, 0.95 ft³/s Aug. 23, 24, 1977; minimum gage height, 2.61 ft, Sept. 12-19, 1973.

Summary of monthly and annual discharges, 1972-79

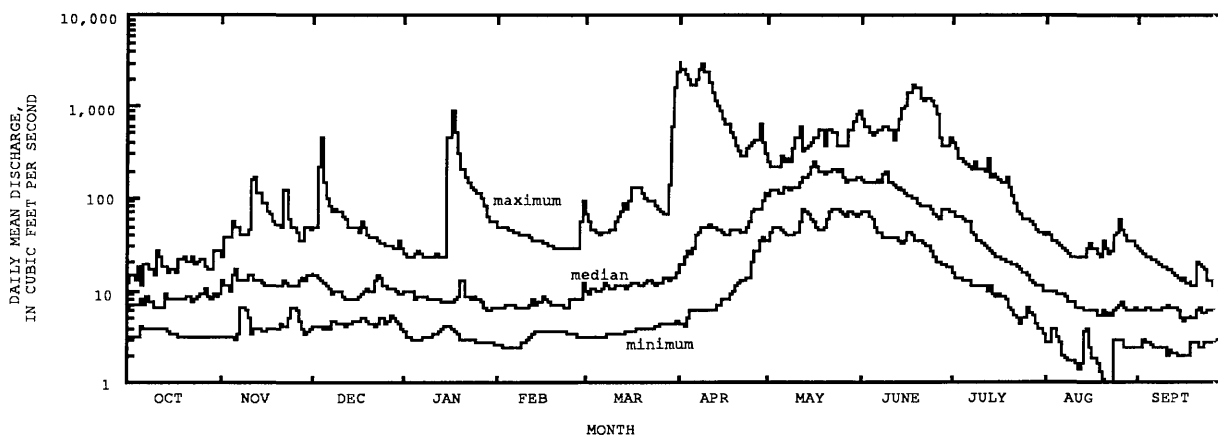
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	17	3.6	9.5	4.4	0.47	1.4
November	49	6.4	21	15	0.73	3.0
December	68	4.6	20	21	1.1	2.9
January	128	3.8	25	42	1.7	3.5
February	36	3.3	12	11	0.90	1.7
March	70	5.1	23	22	0.97	3.3
April	81	19	47	20	0.43	6.8
May	339	87	197	74	0.38	28.6
June	734	52	253	219	0.87	36.6
July	161	9.0	62	52	0.84	9.0
August	28	3.6	14	9.5	0.70	2.0
September	15	3.3	8.2	3.7	0.45	1.2
Annual	124	20	58	33	0.58	100



LOCATION MAP

Duration table of daily mean flow for period of record 1972-79

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
550	251	162	109	71	40	23	14	11	8.5	6.6	4.5	3.3	2.7	2.3	1.9	1.2



PEND OREILLE RIVER BASIN

12392400 RAPID LIGHTNING CREEK NEAR SAMUELS, ID

LOCATION.—Lat 48°22'50", long 116°21'45", in SW ¹/₄, NE ¹/₄, sec.17, T.58 N., R.1 E., Bonner County, Hydrologic Unit 17010214, on left bank 0.2 mi downstream from county bridge, 1.2 mi downstream from Spring Creek, at mile 2.5, and 7 mi east of Samuels.

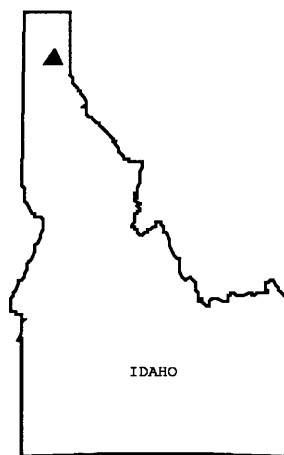
DRAINAGE AREA.—45.0 mi².

PERIOD OF RECORD.—July 1963 to September 1968.

GAGE.—Water-stage recorder. Elevation of gage is 2,330 ft above sea level, from topographic map.

REMARKS.—Occasional diversion for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 718 ft³/s Apr. 20, 1965, gage height, 4.33 ft; minimum, 8.1 ft³/s Sept. 22, 23, 1967, gage height, 1.31 ft.



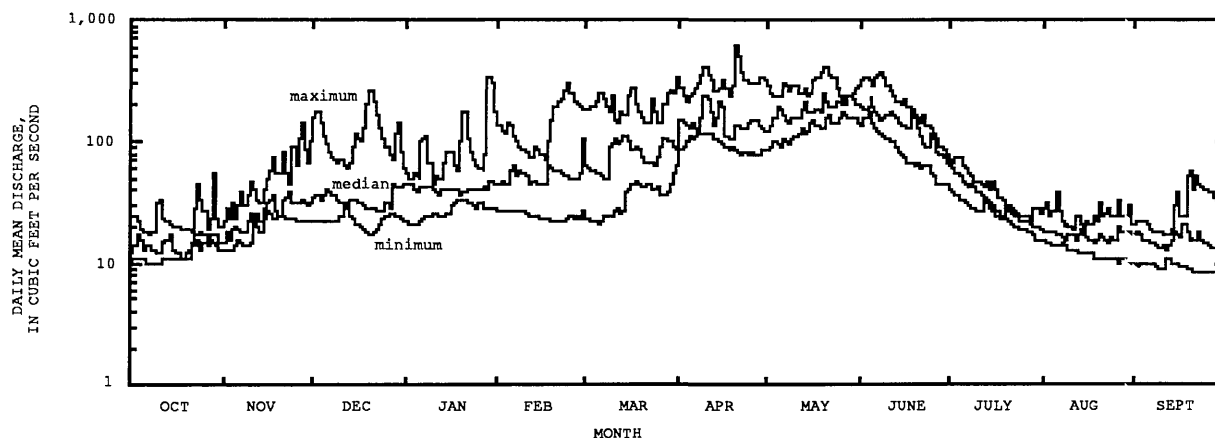
LOCATION MAP

Summary of monthly and annual discharges, 1964-68

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	20	13	16	2.8	0.17	1.8
November	46	23	32	9.4	0.30	3.5
December	81	23	49	24	0.50	5.4
January	94	33	50	25	0.50	5.6
February	124	25	65	41	0.63	7.1
March	190	37	98	57	0.58	10.9
April	256	106	176	67	0.38	19.5
May	260	143	197	43	0.22	21.9
June	214	89	149	48	0.32	16.5
July	40	27	34	5.6	0.17	3.8
August	23	12	18	4.1	0.22	2.0
September	30	9.3	18	8.2	0.46	2.0
Annual	81	69	75	4.7	0.06	100

Duration table of daily mean flow for period of record 1964-68

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
343	251	201	161	132	84	53	39	29	24	19	15	12	10	9.5	8.9	8.5



SPOKANE RIVER BASIN

12412000 COEUR D'ALENE RIVER NEAR PRICHARD, ID

LOCATION.—Lat 47°38', long 115°59', in lot 7, sec.32, T.50 N., R.4 E., Shoshone County, Hydrologic Unit 17010301, on right bank 0.2 mi downstream from Beaver Creek, and 1.2 mi southwest of Prichard.

DRAINAGE AREA.—583 mi².

PERIOD OF RECORD.—August 1944 to Septmeber 1953.

REVISED RECORDS.—WSP 1182: Drainage area.

GAGE.—Nonrecording gage. Elevation of gage is 2,365 ft above sea level, from river-profile map.

REMARKS.—No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 16,400 ft³/s Feb. 11, 1951, gage height, 10.95 ft (from graph based on gage readings), but may have been higher Dec. 15, 1946; minimum daily, 80 ft³/s Nov. 29, 30, 1952.



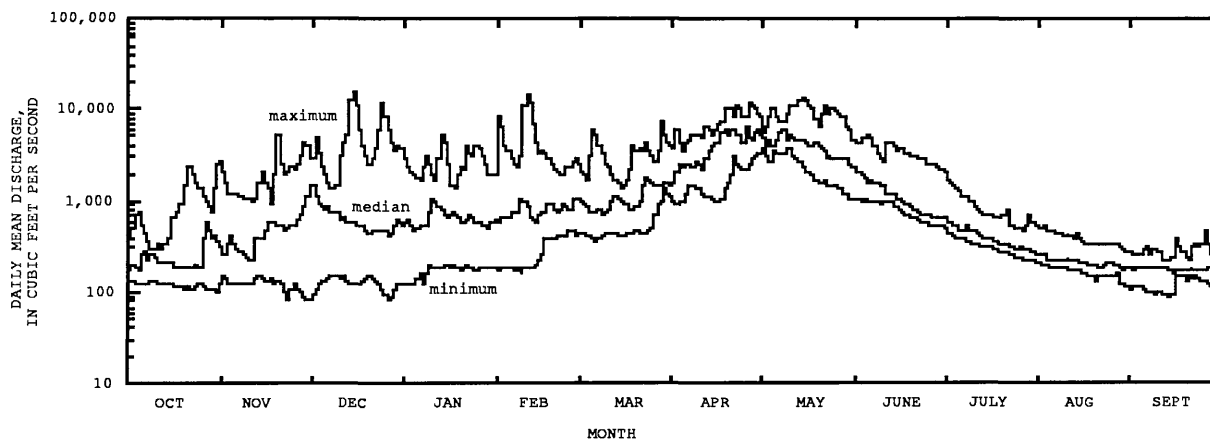
LOCATION MAP

Summary of monthly and annual discharges, 1945-53

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	756	123	349	238	0.68	2.1
November	1,410	124	674	423	0.63	4.0
December	3,220	135	1,090	1,070	0.99	6.5
January	1,400	197	914	396	0.43	5.4
February	2,950	451	1,270	835	0.66	7.5
March	2,380	593	1,340	652	0.49	8.0
April	5,440	2,290	4,140	1,070	0.26	24.6
May	6,860	2,630	4,640	1,450	0.31	27.6
June	3,460	893	1,500	869	0.58	8.9
July	854	315	463	178	0.39	2.8
August	383	165	237	69	0.29	1.4
September	233	164	194	25	0.13	1.2
Annual	1,800	1,020	1,400	239	0.17	100

Duration table of daily mean flow for period of record 1945-53

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
9,710	5,370	3,970	2,930	2,150	1,290	864	618	448	299	212	166	140	123	114	110	88



SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D'ALENE RIVER AT KELLOGG, ID

LOCATION.—Lat 47°32'49", long 116°08'09", in SE 1/4, sec.36, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on left bank at concrete bridge on New Street in Kellogg, 100 ft upstream from Bunker Hill settling pond, 200 ft downstream 0.2 mi from Jackass Creek, and 1.9 mi upstream from Government Gulch, and at mile 6.9.

DRAINAGE AREA.—194 mi².

PERIOD OF RECORD.—April 1974 to September 1982. Records for December 1966 to March 1974 at site 1.9 mi downstream ("at Smelterville", sta 12413300) not equivalent owing to difference in drainage areas.

GAGE.—Water-stage recorder. Elevation of gage is 2,300 ft above sea level, from topographic map.

REMARKS.—None.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,100 ft³/s Jan. 16, 1974, gage height, 16.30 ft; minimum, 30 ft³/s Jan. 11, 1975, gage height, 9.30 ft.

Summary of monthly and annual discharges, 1975-82

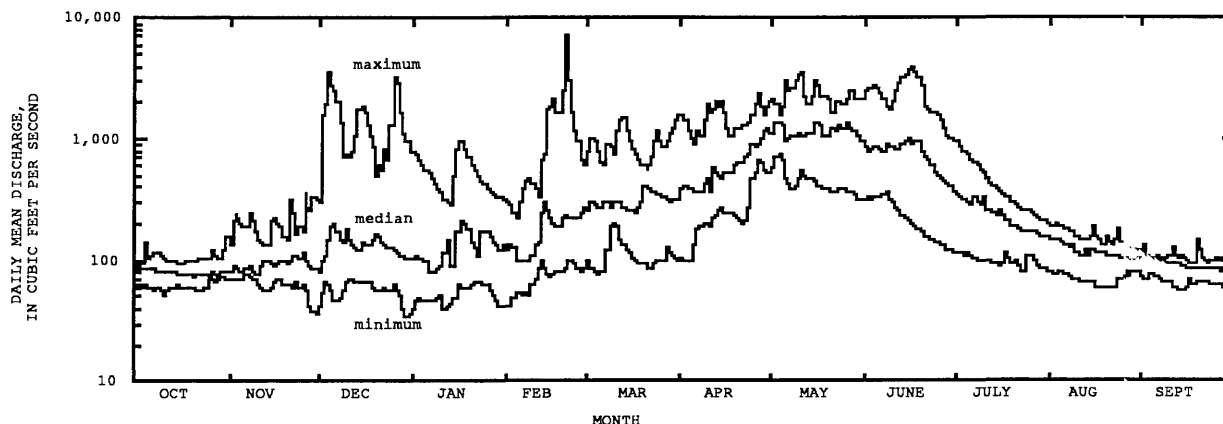
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	104	70	81	10	0.13	1.8
November	165	67	108	35	0.33	2.4
December	776	64	330	322	0.97	7.4
January	417	55	182	137	0.75	4.1
February	1,070	74	319	319	1.0	7.2
March	707	112	374	189	0.51	8.4
April	1,010	325	684	211	0.31	15.3
May	1,740	442	1,180	421	0.36	26.6
June	1,460	225	755	378	0.50	16.9
July	387	98	240	98	0.41	5.4
August	145	70	112	23	0.21	2.5
September	98	71	87	10	0.12	1.9
Annual	521	142	371	121	0.33	100



LOCATION MAP

Duration table of daily mean flow for period of record 1975-82

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
2,170	1,390	1,010	749	581	355	243	169	117	96	82	71	62	55	48	43	38



SPOKANE RIVER BASIN

12413300 SOUTH FORK COEUR D'ALENE RIVER AT SMELTERVILLE, ID

LOCATION.—Lat 47°32'55", long 116°10'25", in SW 1/4, sec.35, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on left bank 490 ft downstream from county road bridge, 0.2 mi downstream from Government Gulch, 0.6 mi northwest of Smelterville Post Office, and at mile 5.

DRAINAGE AREA.—202 mi².

PERIOD OF RECORD.—December 1966 to March 1974.

GAGE.—Water-stage recorder. Elevation of gage is 2,220 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,500 ft³/s Jan. 16, 1974, gage height, 13.04 ft; minimum, 50 ft³/s Dec. 8, 1973, gage height, 2.39 ft.



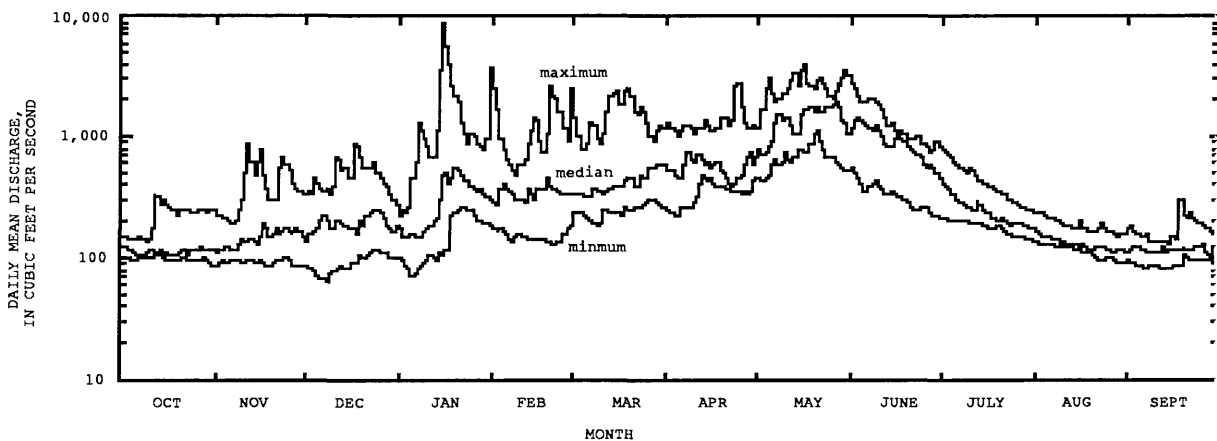
LOCATION MAP

Summary of monthly and annual discharges, 1968-73

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	220	108	135	43	0.32	2.5
November	354	96	169	98	0.58	3.0
December	356	98	188	91	0.49	3.4
January	532	224	343	123	0.36	6.3
February	791	153	464	268	0.58	8.4
March	1,400	252	568	420	0.74	10.4
April	1,320	416	722	352	0.49	13.2
May	2,200	821	1,500	583	0.39	27.5
June	1,340	331	837	388	0.46	15.2
July	433	186	278	105	0.38	5.1
August	187	116	146	29	0.20	2.7
September	162	98	128	23	0.18	2.3
Annual	632	261	457	144	0.31	100

Duration table of daily mean flow for period of record 1968-73

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																	
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%	
2,630	1,710	1,140	845	675	435	325	241	186	148	124	105	97	87	81	76	68	



SPOKANE RIVER BASIN

12414200 MARBLE CREEK NEAR CALDER, ID

LOCATION.—Lat 47°13'38", long 116°01'09", in NW 1/4, SW 1/4, SE 1/4, sec.24, T.45 N., R.3 E., Hydrologic Unit 17010304, Shoshone County, on left bank 20 ft upstream from road fill of bridge abutment, 70 ft downstream from Boulder Creek, 2 mi upstream from mouth. 8 mi southeast of Calder, and 27 mi southeast of St. Maries.

DRAINAGE AREA.—138 mi².

PERIOD OF RECORD.—October 1983 to September 1988.

GAGE.—Water-stage recorder. Elevation of gage is 2,380 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,180 ft³/s June 7, 1985, gage height, 14.46 ft; minimum, 17 ft³/s Nov. 27, 1987, gage height, 10.08 ft.



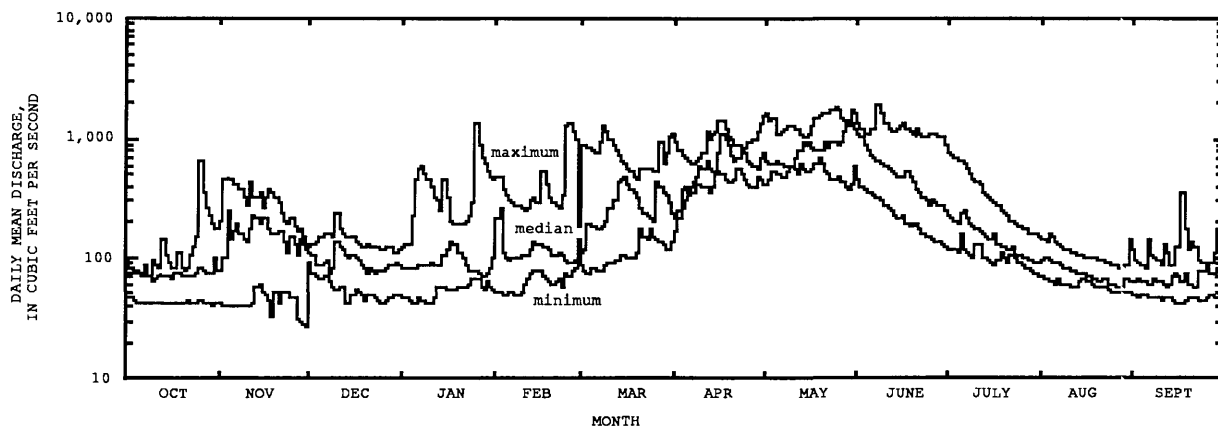
LOCATION MAP

Summary of monthly and annual discharges, 1984-88

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	129	43	80	33	0.41	2.3
November	231	43	153	82	0.54	4.3
December	126	65	91	26	0.28	2.6
January	383	62	152	133	0.87	4.3
February	478	66	198	176	0.89	5.6
March	730	115	344	236	0.69	9.7
April	712	579	643	58	0.09	18.2
May	1,240	750	908	200	0.22	25.7
June	1,120	236	634	375	0.59	17.9
July	363	103	183	104	0.57	5.2
August	108	60	79	19	0.24	2.2
September	102	47	72	25	0.34	2.0
Annual	383	224	295	68	0.23	100

Duration table of daily mean flow for period of record 1984-88

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time															
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.9%
1,450	1,100	836	634	510	307	178	126	98	82	68	53	46	42	41	30



HOBACK RIVER BASIN

13019438 LITTLE GRANITE CREEK AT MOUTH, NEAR BONDURANT, WY

LOCATION.—Lat 43°17'56", long 110°31'33", NW 1/4, SW 1/4, sec. 34, T.39 N., R.114 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, 11.3 mi east of Hoback Junction on U.S. 187/189 and 1.4 mi northeast of U.S. 187/189 on Granite Creek Road.

DRAINAGE AREA.—21.1 mi².

PERIOD OF RECORD.—December 1981 to September 1990.

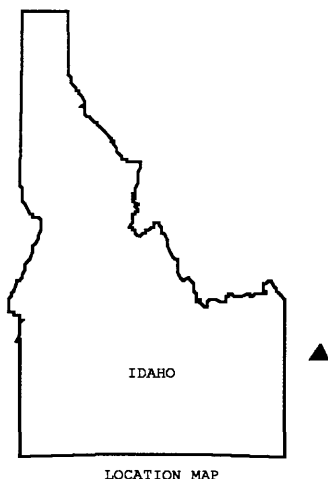
GAGE.—Water-stage recorder. Elevation of gage is 6,390 ft above sea level, from topographic map.

REMARKS.—No diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 876 ft³/s May 29, 1983, gage height, 3.86 ft, maximum gage height, 4.1 ft, Feb. 25, 1982 (backwater from ice); minimum daily, 2.5 ft³/s Feb. 5, 1982.

Summary of monthly and annual discharges, 1983-90

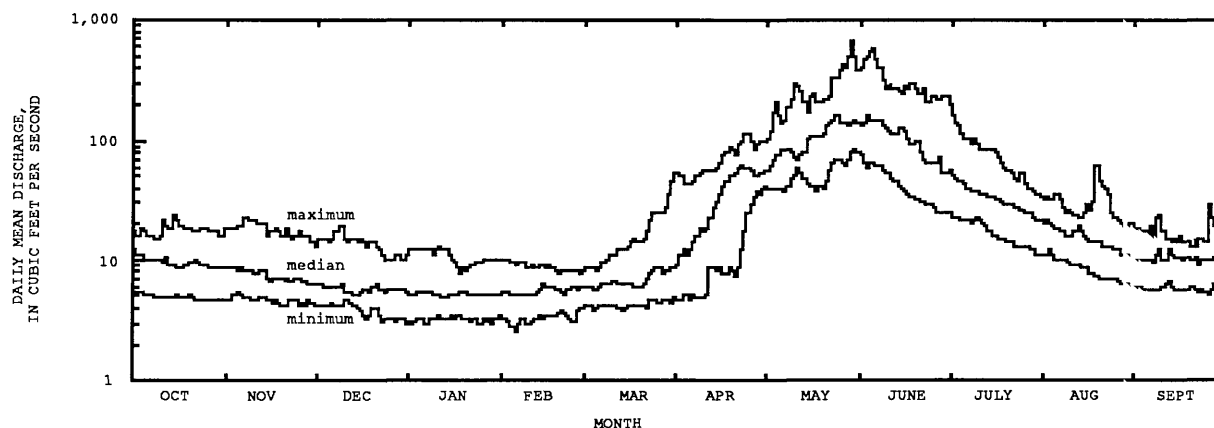
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	17	4.8	9.0	3.8	0.43	2.4
November	17	4.7	7.8	3.8	0.49	2.1
December	14	4.2	6.6	2.9	0.44	1.8
January	10	3.8	5.8	2.0	0.35	1.6
February	8.7	3.7	5.6	1.5	0.27	1.5
March	17	4.7	7.9	3.9	0.49	2.1
April	61	13	38	15	0.39	10.1
May	156	67	118	37	0.31	31.6
June	249	45	115	71	0.61	30.9
July	60	18	34	16	0.46	9.1
August	28	8.3	16	6.2	0.39	4.2
September	15	5.7	9.9	3.3	0.33	2.7
Annual	49	21	31	11	0.35	100



LOCATION MAP

Duration table of daily mean flow for period of record 1983-91

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
262	142	82	59	44	21	14	10	8.0	6.5	5.6	4.8	4.3	4.0	3.7	3.5	3.1



MCCOY CREEK BASIN

13029500 MCCOY CREEK ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.—Lat 43°10'50", long 111°06'55", in SW 1/4, sec. 6, T. 3 S., R. 4 E., Bonneville County, Hydrologic Unit 17040104, on left bank 1.5 mi upstream from mouth, and 5 mi west of Alpine.

DRAINAGE AREA.—108 mi².

PERIOD OF RECORD.—July to September 1917, June to September 1918, May to July 1934, September 1953 to September 1961. Annual maximums, water years 1962-65. Monthly discharge only for some periods, published in WSP 1317. Published as "McCoy Creek near Alpine, ID" 1917-18, and "McCoy Creek near Alpine, WY" 1934.

GAGE.—Water-stage recorder. Datum of gage is 5,635.4 ft above sea level, datum of 1929, supplementary adjustment of 1947 (levels partly by U.S. Bureau of Reclamation). July 15 to Sept. 30, 1917, staff gage, June 25 to Sept. 30, 1918, water-stage recorder, and May 1 to July 31, 1934, staff gage, at sites about 1 mi downstream at different datums. September 1953 to Sept. 30, 1961, water-stage recorder at present site and datum.

REMARKS.—No diversion above station.

COOPERATION.—Water-stage-recorder graph and discharge measurements furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,300 ft³/s May 9, 1963, gage height, 6.16 ft; minimum, 1.0 ft³/s for many days in 1934.



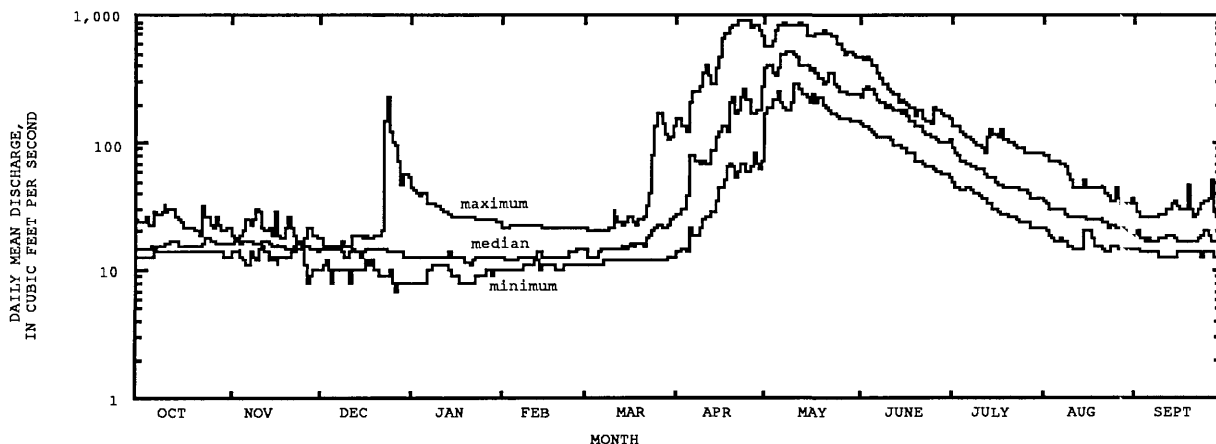
LOCATION MAP

Summary of monthly and annual discharges, 1954-61

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	24	14	17	3.2	0.15	1.8
November	18	14	16	1.6	0.10	1.7
December	41	9.6	17	9.8	0.57	1.8
January	30	9.2	14	6.3	0.44	1.5
February	22	11	14	3.7	0.25	1.4
March	50	12	22	12	0.54	2.3
April	517	48	201	142	0.71	20.7
May	667	228	410	173	0.42	42.1
June	245	93	164	52	0.32	16.8
July	78	34	54	15	0.28	5.5
August	35	18	25	5.5	0.22	2.5
September	23	14	18	3.4	0.18	1.9
Annual	128	53	81	26	0.32	100

Duration table of daily mean flow for period of record 1954-61

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
743	406	245	160	108	43	25	20	17	16	14	13	12	10	8.7	7.8	7.2



INDIAN CREEK BASIN

13030000 INDIAN CREEK ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.—Lat 43°15'35", long 111°04'00", near center of sec.9, T.2 S., R.46 E., Bonneville County, Hydrologic Unit 17040104, on right bank 0.25 mi downstream from forks of creek, 3 mi upstream from mouth, and 5.5 mi north of Alpine.

DRAINAGE AREA.—36.8 mi².

PERIOD OF RECORD.—July to September 1917, June to September 1918, August 1953 to September 1961. Annual maximums, water years 1962-65. Published as "Indian Creek near Blowout" 1917-18.

GAGE.—Water-stage recorder. Elevation of gage is 5,820 ft above sea level, from topographic map. July 14 to Sept. 30, 1917, and June 4 to Sept. 21, 1918, nonrecording gage at site 3 mi downstream at different datum. August 1953 to Sept. 30, 1961, water-stage recorder at present site and datum.

REMARKS.—One small diversion from North Fork for irrigation.

COOPERATION.—Water-stage-recorder graph and discharge measurements furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 350 ft³/s June 14, 1918; no flow for long periods in each year.



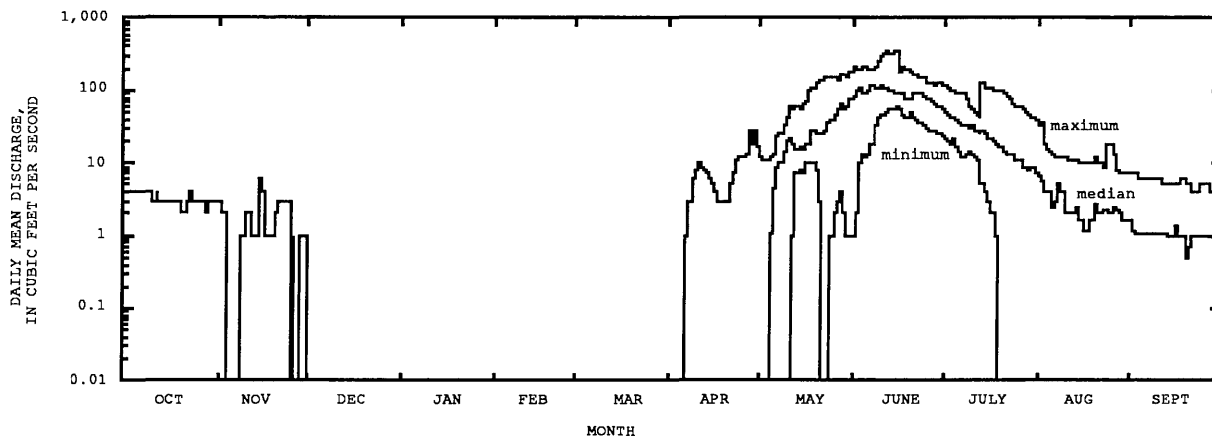
LOCATION MAP

Summary of monthly and annual discharges, 1954-61

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	3.3	0.00	0.47	1.1	2.4	0.3
November	1.6	0.00	0.20	0.56	2.8	0.1
December	0.00	0.00	0.00	0.00		0.0
January	0.00	0.00	0.00	0.00		0.0
February	0.00	0.00	0.00	0.00		0.0
March	0.00	0.00	0.00	0.00		0.0
April	3.9	0.00	1.3	1.9	1.4	0.8
May	70	3.3	36	25	0.70	21.7
June	163	56	96	34	0.35	58.2
July	51	8.6	25	15	0.60	15.4
August	11	0.00	3.9	3.6	0.93	2.4
September	5.2	0.00	1.8	1.9	1.1	1.1
Annual	22	7.0	14	4.5	0.33	100

Duration table of daily mean flow for period of record 1954-61

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
168	104	53	25	13	4.2	0.10	0.08	0.06	0.05	0.03	0.02	0.01	0.00	0.00	0.00	0.00



ELK CREEK BASIN

13030500 ELK CREEK ABOVE RESERVOIR, NEAR IRWIN, ID

LOCATION.—Lat 43°19'25", long 111°06'40", in NW 1/4, sec.19, T.1 S., R.46 E., Bonneville County, Hydrologic Unit 17040104, on right bank 2.5 mi upstream from mouth, and 11 mi southeast of Irwin.

DRAINAGE AREA.—59.2 mi².

PERIOD OF RECORD.—July to September 1917, June to September 1918, September 1953 to September 1961. Published as "Big Elk Creek near Blowout" 1917-18, and as "Elk Creek near Irwin" 1934.

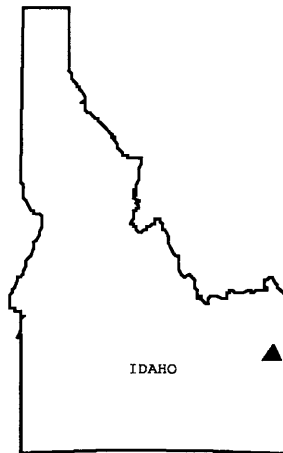
REVISED RECORDS.—WSP 1637: Water years, 1956(M).

GAGE.—Water-stage recorder. Elevation of gage is 5,640 ft above sea level, from topographic map. July 1917 to September 1918 and April to July 1934, staff gage at site 2.25 mi downstream at different datum. September 1953 to August 1957, water-stage recorder at datum 0.41 ft higher.

REMARKS.—No diversion for irrigation.

COOPERATION.—Water-stage-recorder graph and discharge measurements furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 870 ft³/s June 15, 1918; minimum, 5.0 ft³/s Dec. 15, 1953.



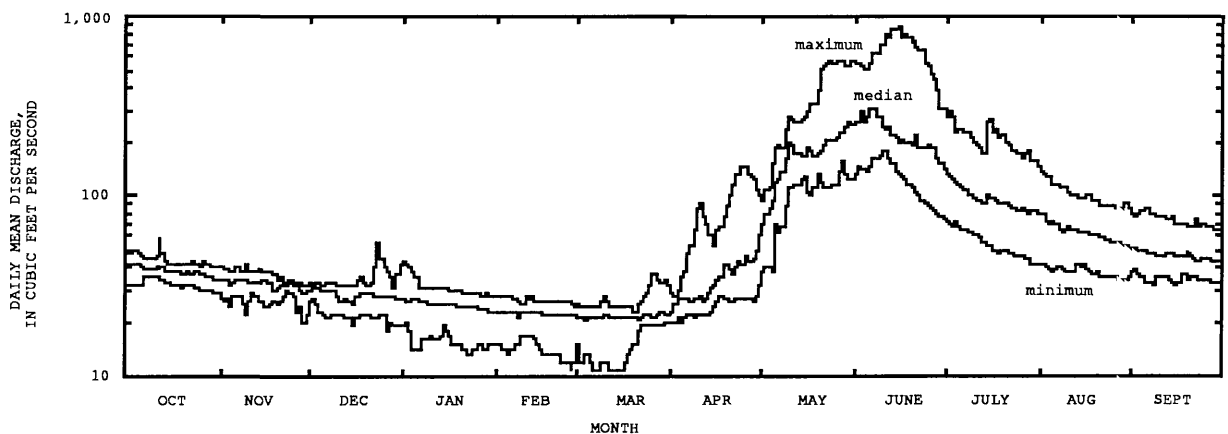
LOCATION MAP

Summary of monthly and annual discharges, 1954-61

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	43	33	38	3.9	0.10	4.6
November	36	29	32	2.5	0.07	3.9
December	32	22	28	3.3	0.12	3.4
January	30	16	24	4.3	0.18	2.9
February	27	15	22	4.1	0.19	2.6
March	25	18	22	2.3	0.11	2.6
April	72	26	42	15	0.35	5.1
May	317	124	197	69	0.35	23.9
June	359	142	229	70	0.30	27.7
July	126	55	93	28	0.30	11.2
August	74	38	56	13	0.23	6.8
September	55	36	44	7.3	0.17	5.3
Annual	96	50	69	15	0.21	100

Duration table of daily mean flow for period of record 1954-61

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
436	239	175	126	89	57	44	37	33	28	25	22	20	16	14	13	11



HENRYS FORK BASIN

13052500 HORSESHOE CREEK NEAR DRIGGS, ID

LOCATION.—Lat 43°44'00", long 111°15'30", in sec.27, T.5 N., R.44 E., Teton County, Hydrologic Unit 17040204, on left bank at mouth of canyon 90 ft upstream from bridge on old railroad grade, 4 mi upstream from mouth, and 7.5 mi west of Driggs.

DRAINAGE AREA.—11.7 mi². Mean altitude, 7,020 ft.

PERIOD OF RECORD.—May 1946 to October 1952.

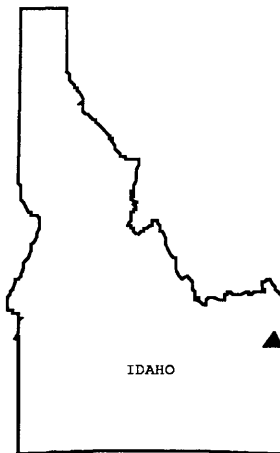
GAGE.—Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from topographic map.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 81 ft³/s May 3, 1952; maximum gage height, 4.16 ft, May 23, 1950; minimum recorded, 0.7 ft³/s Nov. 12, 1946; minimum gage height observed, 0.96 ft, Feb. 11, 1947.

Summary of monthly and annual discharges, 1947-52

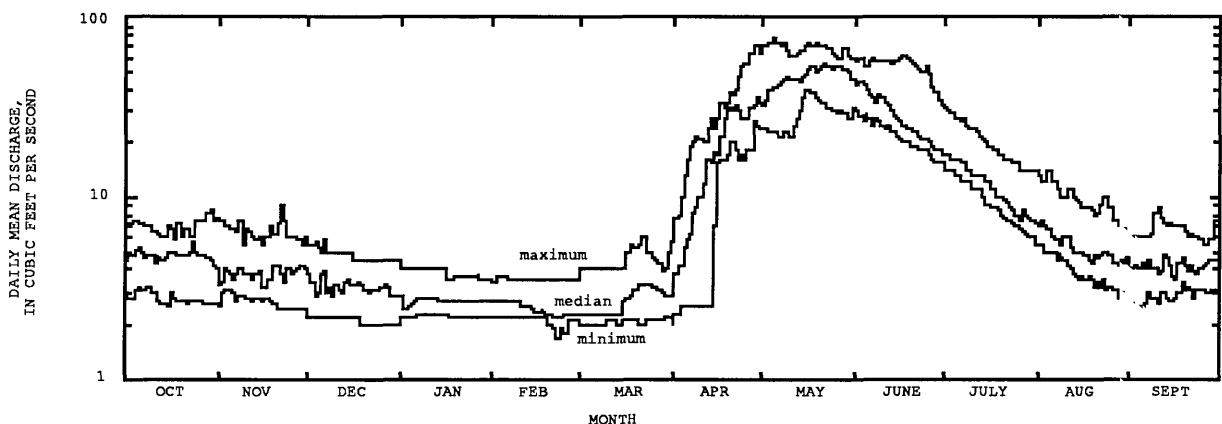
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	6.7	2.9	4.7	1.5	0.31	3.2
November	6.4	2.8	4.1	1.4	0.34	2.8
December	4.8	2.1	3.3	0.93	0.28	2.3
January	3.7	2.3	2.8	0.62	0.22	2.0
February	3.4	2.2	2.6	0.49	0.19	1.8
March	4.4	2.1	3.0	0.87	0.29	2.0
April	28	13	20	5.9	0.29	14.2
May	62	39	48	10	0.21	33.2
June	53	25	33	10	0.30	22.6
July	20	9.6	13	3.7	0.28	8.9
August	9.3	3.9	5.9	2.0	0.33	4.1
September	6.4	3.1	4.2	1.2	0.28	2.9
Annual	15	9.3	12	2.0	0.17	100



LOCATION MAP

Duration table of daily mean flow for period of record 1947-52

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
66	53	37	27	20	9.0	5.8	4.6	3.8	3.3	2.8	2.3	2.2	2.1	2.0	2.0	1.8



WILLOW CREEK BASIN

13057940 WILLOW CREEK BELOW TEX CREEK, NEAR RIRIE, ID

LOCATION.—Lat 43°26'33", long 111°43'37", in NE 1/4, SE 1/4, sec.3, T.1 N., R.40 E., Bonneville County, Hydrologic Unit 17040205, on right bank 0.3 mi below Tex Creek, and 13.2 mi southeast of Ririe.

DRAINAGE AREA.—568 mi².

PERIOD OF RECORD.—August 1977 to September 1979, October 1985 to September 1990.

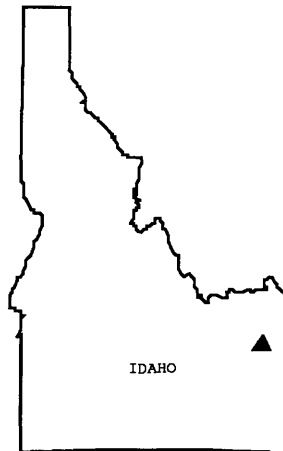
GAGE.—Water-stage recorder. Elevation of gage is 5,200 ft above sea level, from topographic map.

REMARKS.—Diversions above station for irrigation of about 7,300 acres, of which 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake into Meadow Creek basin and thence into Blackfoot Reservoir.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,490 ft³/s Apr. 23, 1986, gage height, 5.76 ft; minimum, 5.0 ft³/s Aug. 26, 27, 1988, gage height, 1.85 ft.

Summary of monthly and annual discharges, 1978-79, 1986-90

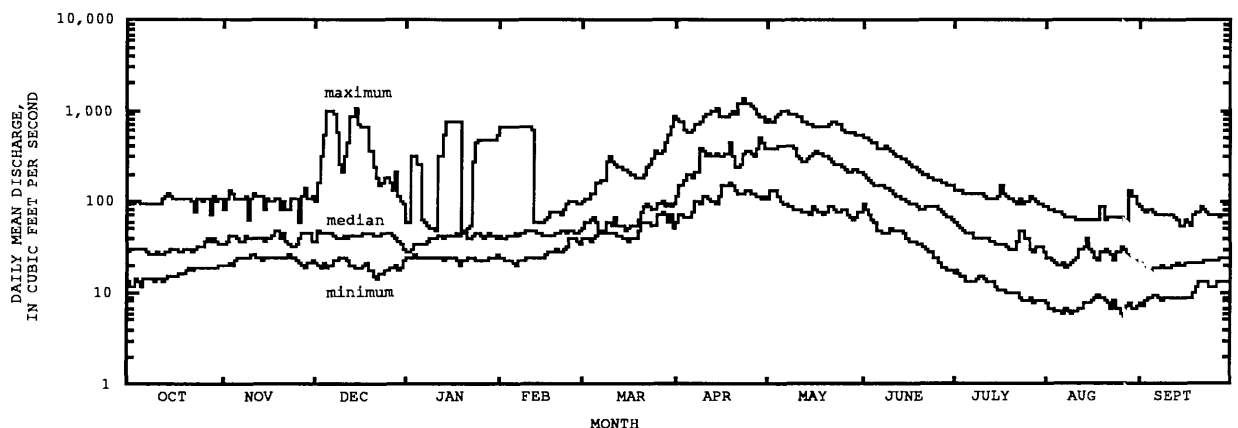
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	74	16	38	20	0.54	3.0
November	75	28	43	16	0.37	3.4
December	63	26	44	14	0.33	3.5
January	55	25	39	11	0.27	3.1
February	65	27	46	12	0.27	3.6
March	264	56	105	73	0.69	8.4
April	867	164	388	259	0.67	30.7
May	737	91	326	238	0.73	25.9
June	292	43	128	90	0.71	10.1
July	113	12	47	35	0.76	3.7
August	71	8.2	30	22	0.73	2.4
September	70	11	28	21	0.74	2.2
Annual	224	48	105	61	0.58	100



LOCATION MAP

Duration table of daily mean flow for period of record 1978-79, 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
879	474	264	158	116	75	56	47	40	34	27	20	13	8.6	7.7	6.9	5.9



PORTNEUF RIVER BASIN

13072000 PORTNEUF RIVER NEAR PEBBLE, ID

LOCATION.—Lat 42°47'12", long 111°58'47", in SE 1/4, NW 1/4, sec.26, T.7 S., R.38 E., Caribou County, Hydrologic Unit 17040208, on right bank 90 ft downstream from county bridge, 4.8 mi upstream from Pebble Creek, 3.5 mi north of Pebble, and at mile 57.8.

PERIOD OF RECORD.—October 1910 to July 1913, October 1968 to September 1977.

GAGE.—Water-stage recorder. Datum of gage is 5,301.27 ft above sea level. October 1910 to July 1913, nonrecording gage 0.5 mi downstream at different datum.

REMARKS.—Flow regulated by Portneuf Reservoir (capacity, 23,695 acre-ft) and Chesterfield Reservoir on Twentymile Creek (capacity, 685 acre-ft). Diversions above station for irrigation of about 14,000 acres, of which about 4,800 acres are by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 624 ft³/s Jan. 31, 1911, gage height, 6.00 ft (site and datum then in use); minimum, 9.0 ft³/s Aug. 23, 1977, gage height, 1.30 ft.

Summary of monthly and annual discharges, 1969-77

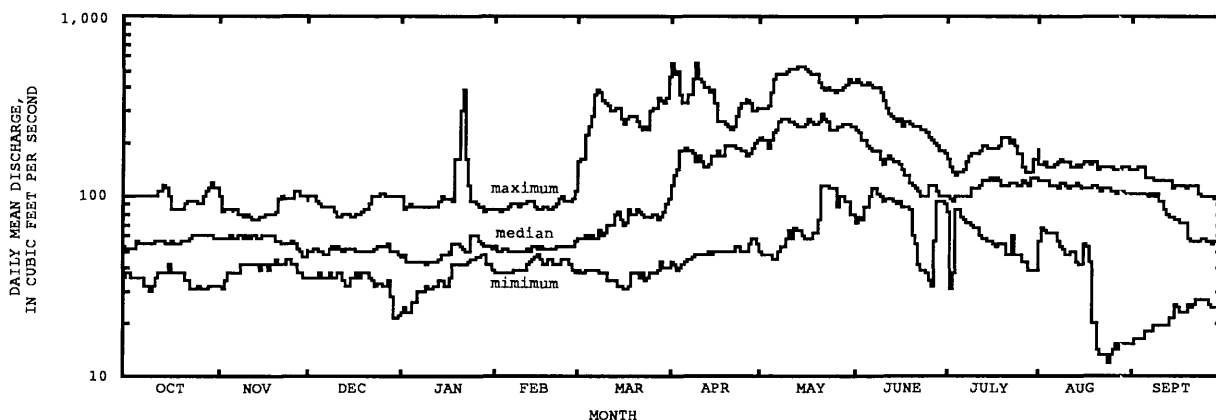
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	88	35	58	19	0.32	4.4
November	86	40	58	14	0.24	4.4
December	88	35	55	15	0.27	4.2
January	89	43	58	15	0.26	4.4
February	86	44	58	15	0.26	4.4
March	258	47	110	72	0.65	8.5
April	276	50	181	84	0.47	13.8
May	434	123	265	104	0.39	20.2
June	292	107	159	59	0.37	12.1
July	157	71	118	22	0.19	9.0
August	143	43	114	30	0.27	8.7
September	110	22	78	27	0.34	5.9
Annual	139	64	109	25	0.22	100



LOCATION MAP

Duration table of daily mean flow for period of record 1969-77

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time															
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%
427	306	239	178	144	119	100	81	65	56	49	41	37	31	23	17



PORTNEUF RIVER BASIN

13075910 PORTNEUF RIVER AT TYHEE, ID

LOCATION.—Lat 42°56'40", long 112°32'40", in NE 1/4 sec.36, T.5 S., R.33 E., Bannock-Power County line, Hydrologic Unit 17040206, 4 mi west of Tyhee.

PERIOD OF RECORD.—April 1927 to October 1928, June 1932 to September 1978, April 1984 (discharge measurements only); May 1985 to September 1990.

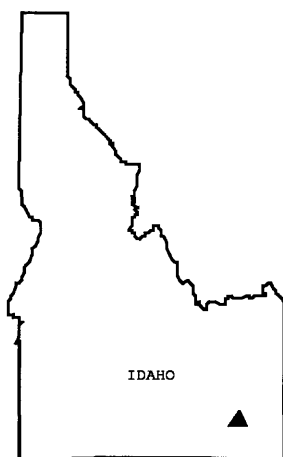
GAGE.—Water-stage recorder. Elevation of gage is 4,370 ft above sea level, from topographic map.

REMARKS.—Many diversions upstream for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,740 ft³/s May 6, 1986, gage height, 6.76 ft; minimum, 54 ft³/s July 3, 4, 1990 gage height 1.93 ft.

Summary of monthly and annual discharges, 1986-90

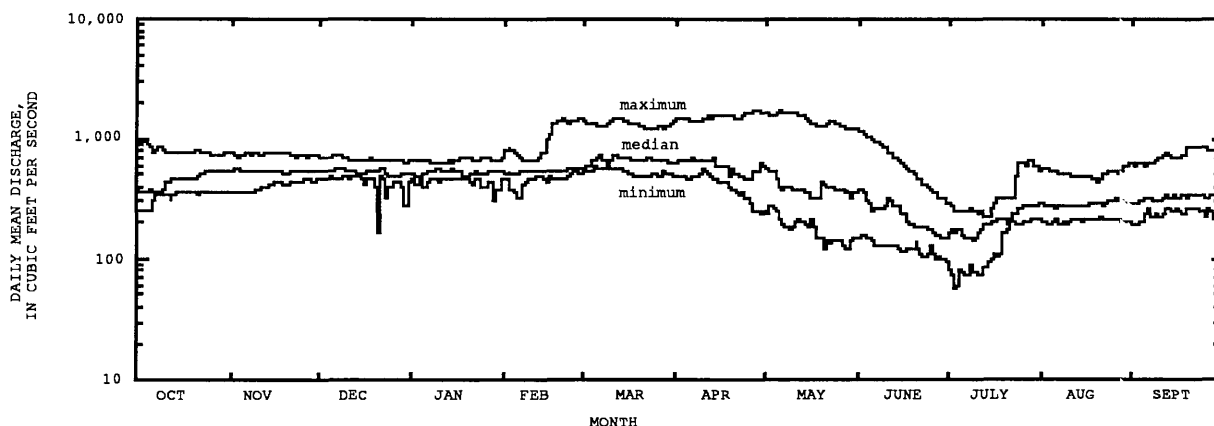
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	787	327	519	184	0.36	8.5
November	732	415	567	123	0.22	9.3
December	668	482	560	81	0.14	9.2
January	633	459	554	78	0.14	9.1
February	1,020	471	637	223	0.35	10.3
March	1,310	532	787	305	0.39	12.9
April	1,540	452	783	450	0.57	12.8
May	1,430	254	533	504	0.95	8.7
June	665	126	286	217	0.76	4.7
July	328	136	209	85	0.41	3.4
August	517	221	304	124	0.41	5.0
September	729	236	376	201	0.54	6.1
Annual	833	367	509	189	0.37	100



LOCATION MAP

Duration table of daily mean flow for period of record 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
1,600	1,210	792	702	659	600	542	484	433	324	252	197	140	107	89	78	63



PORTNEUF RIVER BASIN

13075983 SPRING CREEK AT SHEEPSKIN ROAD, NEAR FORT HALL, ID

LOCATION.—Lat 43°02'36", long 112°33'15", in NW 1/4, NE 1/4, SW 1/4, sec.25, T.4 S., R.33 E., Bingham County, Hydrologic Unit 17040206, on left bank 300 yards upstream of county road bridge, and 5.9 mi west of Fort Hall.

PERIOD OF RECORD.—July 1980 to September 1990 (prior to July 1980, miscellaneous measurements only).

GAGE.—Water-stage recorder. Elevation of gage is 4,380 ft above sea level, from topographic map.

REMARKS.—Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 530 ft³/s Apr. 1, 1985, gage height, 4.88 ft; minimum daily, 278 ft³/s (result of freezeup) Dec. 30, 1982.

Summary of monthly and annual discharges, 1981-85, 1987-88, 1990

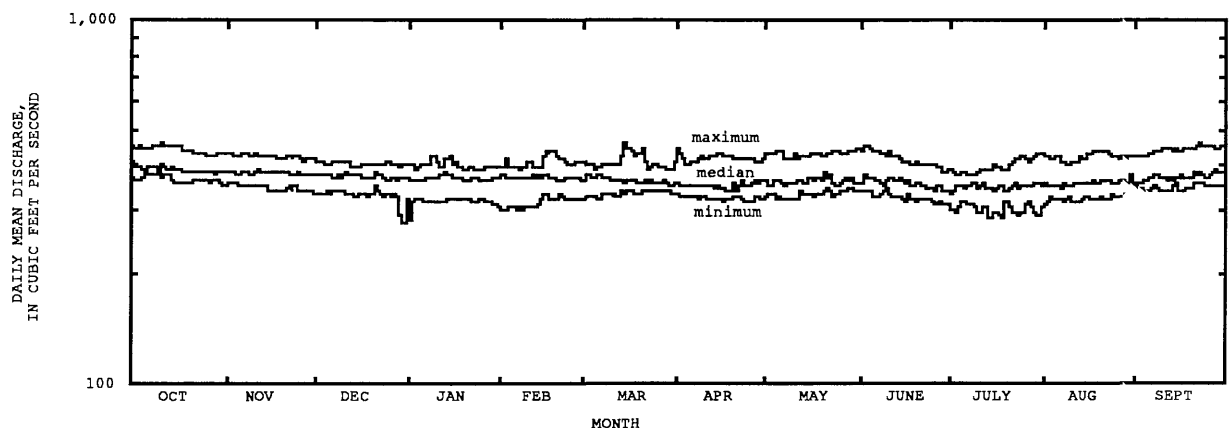


LOCATION MAP

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	438	367	391	24	0.05	8.8
November	419	349	378	24	0.05	8.6
December	398	333	367	24	0.07	8.3
January	392	318	360	26	0.07	8.2
February	390	317	360	25	0.07	8.2
March	403	334	364	24	0.07	8.2
April	414	326	357	28	0.08	8.1
May	425	341	370	27	0.07	8.4
June	414	328	364	29	0.08	8.2
July	387	301	352	29	0.08	8.0
August	417	326	368	32	0.09	8.3
September	435	351	386	33	0.09	8.7
Annual	408	340	368	24	0.05	100

Duration table of daily mean flow for period of record 1981-85, 1987-88, 1990

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time															
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.9%
445	423	409	400	393	383	375	367	359	351	342	331	323	312	304	286



ROCK CREEK BASIN

13076200 BANNOCK CREEK NEAR POCATELLO, ID

LOCATION.—Lat 42°53'10", long 112°38'30", in SW 1/4, NW 1/4, SW 1/4, sec.19, T.6 S., R.33 E., Power County, Hydrologic Unit 17040206, 10.5 mi west of intersection of Interstate Highway 86 and Interstate Highway 15.

PERIOD OF RECORD.—Published as miscellaneous site in 1962-63, 1965, 1968-81, 1984. May 1985 to September 1990.

GAGE.—Water-stage recorder. Elevation of gage is 4,400 ft above sea level, from topographic map.

REMARKS.—None.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 850 ft³/s Feb. 19, 20, 1986, gage height, 7.16 ft; minimum daily, 0.90 ft³/s Aug. 25, 1988.

Summary of monthly and annual discharges, 1986-90

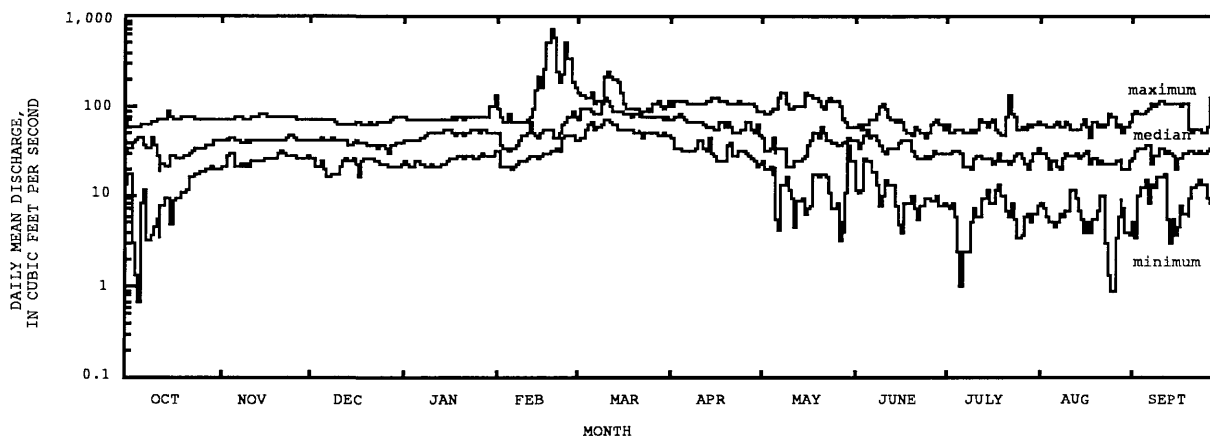
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	71	15	41	23	0.56	7.0
November	76	35	50	17	0.33	8.6
December	67	31	45	14	0.32	7.7
January	64	26	45	18	0.41	7.7
February	200	39	84	66	0.79	14.4
March	112	57	87	22	0.25	14.9
April	110	41	63	28	0.45	10.9
May	101	18	44	34	0.77	7.5
June	61	18	35	22	0.64	6.0
July	52	8.6	25	21	0.82	4.4
August	60	6.0	26	22	0.86	4.5
September	93	14	37	34	0.90	6.4
Annual	83	31	48	23	0.47	100



LOCATION MAP

Duration table of daily mean flow for period of record 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
164	107	88	75	70	60	51	42	36	29	20	11	7.6	5.0	3.8	3.1	1.3



ROCK CREEK BASIN

13077500 ROCK CREEK NEAR ROCKLAND, ID

LOCATION.—Lat 42°31'40", long 112°51'40", in NE 1/4, NW 1/4, sec.29, T.10 S., R.31 E., Power County, Hydrologic Unit 17040209, on right bank 10 ft upstream from culvert on private road, 3 mi south of Rockland, and 3.8 mi upstream from East Fork.

DRAINAGE AREA.—182 mi². Mean elevation, 5,670 ft.

PERIOD OF RECORD.—May 1955 to September 1960.

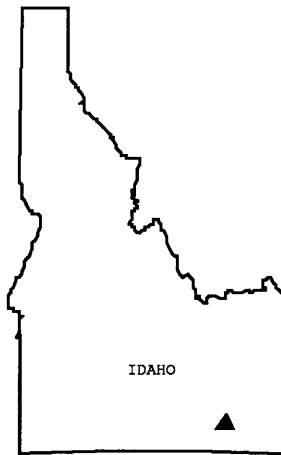
GAGE.—Water-stage recorder. Elevation of gage is 4,720 ft above sea level, from topographic map.

REMARKS.—Practically entire flow diverted for irrigation above station during growing season. Discharge measurements of East Fork made about once a month to supplement this record.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 275 ft³/s Mar. 6, 1960, gage height, 6.21 ft, from rating curve extended above 70 ft³/s on basis of slope-area measurement at gage height 6.10 ft; no flow for long periods each year.

Summary of monthly and annual discharges, 1956-60

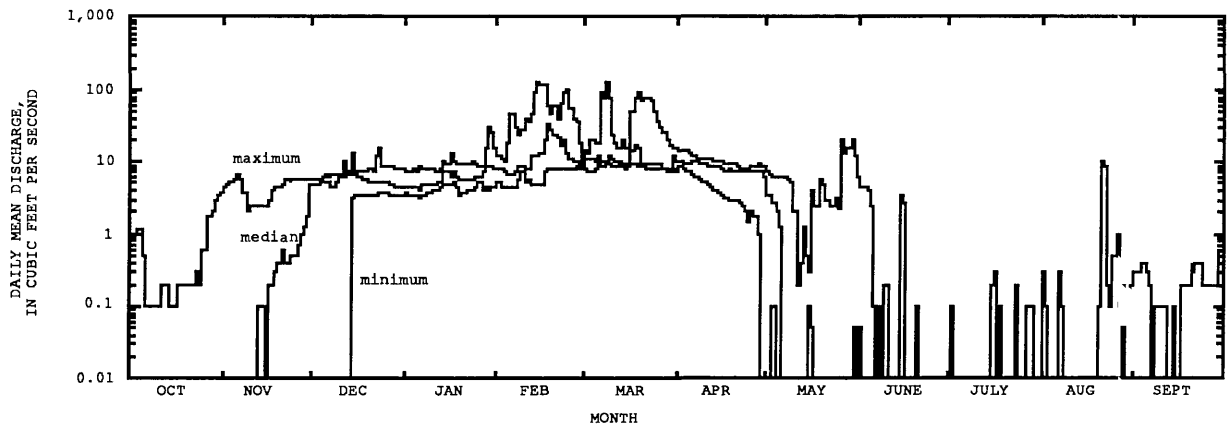
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	0.77	0.00	0.16	0.34	2.2	0.3
November	4.1	0.03	1.5	1.8	1.2	2.3
December	7.4	3.2	5.2	2.0	0.38	8.3
January	8.5	4.8	6.8	1.5	0.23	10.8
February	45	7.9	21	15	0.70	33.9
March	31	9.3	18	12	0.63	28.9
April	10	4.0	7.7	2.3	0.30	12.3
May	4.1	0.01	1.8	1.9	1.1	2.8
June	0.63	0.00	0.14	0.27	1.9	0.2
July	0.02	0.00	0.01	0.01	1.5	0.0
August	0.62	0.00	0.13	0.27	2.1	0.2
September	0.12	0.00	0.03	0.05	1.7	0.0
Annual	6.7	2.9	5.1	1.4	0.28	100



LOCATION MAP

Duration table of daily mean flow for period of record 1956-60

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
64	17	11	9.1	8.1	6.2	4.0	0.21	0.09	0.06	0.04	0.02	0.01	0.00	0.00	0.00	0.00



RAFT RIVER BASIN

13078205 RAFT RIVER BELOW ONEMILE CREEK, NEAR MALTA, ID

LOCATION.—Lat 42°04'13", long 113°26'37", in NW 1/4, SE 1/4, SW 1/4, sec.32, T.15 S., R.26 E., Cassia County, Hydrologic Unit 17040210, U.S. Bureau of Land Management lands, on left bank 64 ft downstream from county road crossing, 300 ft downstream from Onemile Creek, 16 mi southwest of Malta, and at mile 44.3.

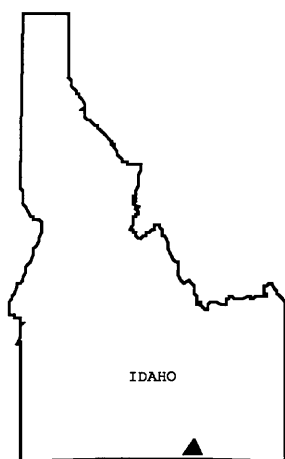
DRAINAGE AREA.—433 mi². Mean elevation, 6,300 ft.

PERIOD OF RECORD.—September 1946 to December 1953, May 1955 to June 1971, October 1975 to May 1984 (destroyed by flood of May 1984). Records since October 1975 equivalent to earlier records published as "at Peterson Ranch, near bridge" (sta 13078000), except for unusually heavy rainstorm runoff from Onemile Creek drainage.

GAGE.—Water-stage recorder. Elevation of gage is 4,940 ft above sea level, from topographic map. Prior to October 1975 at site 0.4 mi upstream at different datum.

REMARKS.—Diversions above station for irrigation of about 16,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,250 ft³/s Jan. 14, 1980, gage height, 8.20 ft, from rating curve extended above 70 ft³/s, on basis of slope-area measurement of peak flow; minimum, 0.8 ft³/s Jan. 23, 1961, gage height, 1.02 ft, site and datum then in use (result of ice jam upstream).



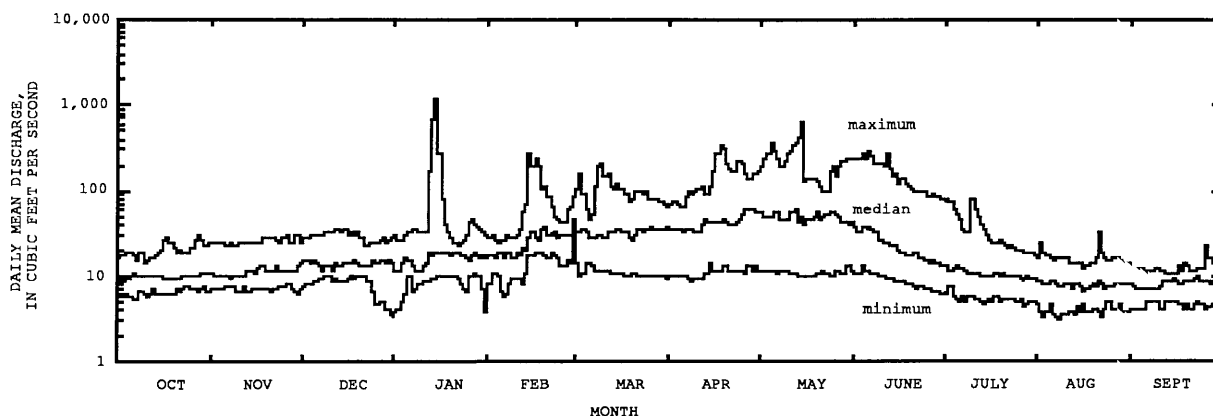
LOCATION MAP

Summary of monthly and annual discharges, 1976-83

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	18	6.5	10	3.8	0.37	3.4
November	21	7.3	12	4.3	0.35	4.0
December	25	9.2	14	5.2	0.37	4.7
January	86	9.3	25	25	1.0	8.4
February	46	14	29	12	0.42	9.7
March	46	11	30	12	0.41	9.9
April	68	11	40	21	0.52	13.2
May	135	11	59	46	0.77	19.5
June	147	9.3	51	60	1.2	16.8
July	36	5.3	14	10	0.72	4.8
August	16	3.9	8.5	3.6	0.42	2.8
September	12	4.6	8.3	2.6	0.31	2.8
Annual	45	9.7	25	13	0.53	100

Duration table of daily mean flow for period of record 1976-83

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time															
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.9%
189	81	51	40	32	22	17	14	12	10	8.6	7.0	5.7	4.6	4.0	3.3



RAFT RIVER BASIN

13079200 CASSIA CREEK NEAR ELBA, ID

LOCATION.—Lat 42°17', long 113°31', in SE 1/4, sec. 22, T. 13 S., R. 25 E., Cassia County, Hydrologic Unit 17040210, on left bank 207 ft downstream from bridge on State Highway 77, 3 mi northeast of Elba, 7.75 mi southwest of Malta, and at mile 15.4.

DRAINAGE AREA.—84 mi², approximately. Mean elevation, 6,430 ft.

PERIOD OF RECORD.—November 1956 to December 1962. Annual maximums, water years 1963-65.

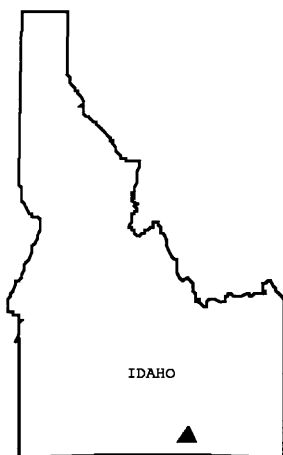
GAGE.—Crest-stage gage. Elevation of gage is 4,910 ft above sea level, by barometer. November 1956 to December 1962, water-stage recorder at same site and datum.

REMARKS.—Numerous diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 982 ft³/s Dec. 23, 1964, gage height, 7.62 ft; minimum, 1.4 ft³/s Aug. 5, 1961, gage height, 1.50 ft.

Summary of monthly and annual discharges, 1958-62

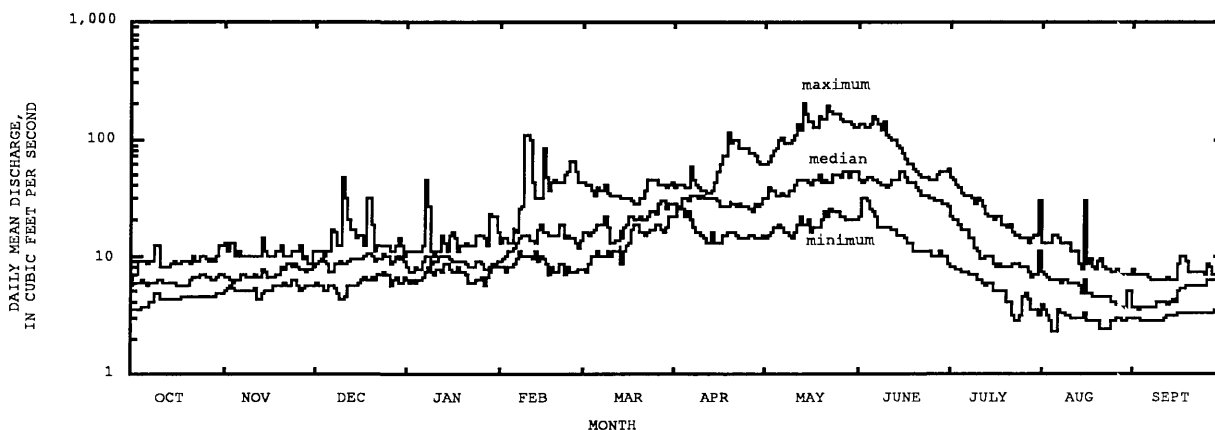
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	8.5	4.3	6.6	1.6	0.23	3.1
November	10	5.4	7.8	1.9	0.25	3.7
December	12	6.1	9.0	2.4	0.27	4.2
January	12	7.8	9.7	1.9	0.20	4.6
February	32	9.6	19	9.3	0.50	8.7
March	36	17	23	8.0	0.35	10.6
April	58	17	33	17	0.52	15.4
May	108	22	48	36	0.74	22.5
June	66	17	37	19	0.52	17.4
July	15	5.9	11	4.1	0.39	4.9
August	8.3	3.3	5.5	2.4	0.43	2.6
September	6.4	3.2	4.6	1.2	0.25	2.2
Annual	31	11	18	8.2	0.46	100



LOCATION MAP

Duration table of daily mean flow for period of record 1958-62

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
107	55	41	33	27	18	13	10	8.5	7.1	5.9	4.3	3.5	3.1	2.9	2.7	2.4



MARSH CREEK BASIN

13082300 MARSH CREEK NEAR ALBION, ID

LOCATION.—Lat 42°27'20", long 113°31'10", in NE¼, sec.22, T.11 S., R.25 E., Cassia County, Hydrologic Unit 17040209, on left bank 750 ft upstream from concrete diversion dam, and 5 mi northeast of Albion.

DRAINAGE AREA.—86 mi², approximately.

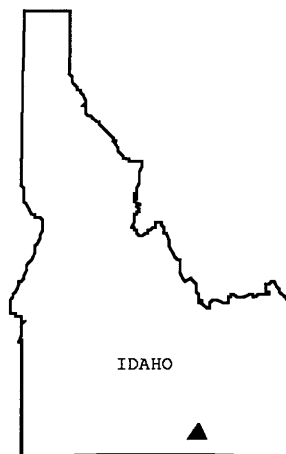
PERIOD OF RECORD.—September 1966 to January 1975.

REVISED RECORDS.—WDR Idaho 1969: 1968(M).

GAGE.—Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map.

REMARKS.—Diversions above station for irrigation of about 5,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 828 ft³/s Jan. 17, 1971, gage height, 7.26 ft, by slope-area measurement; minimum, 1.0 ft³/s Dec. 14, 1967, gage height, 2.00 ft.



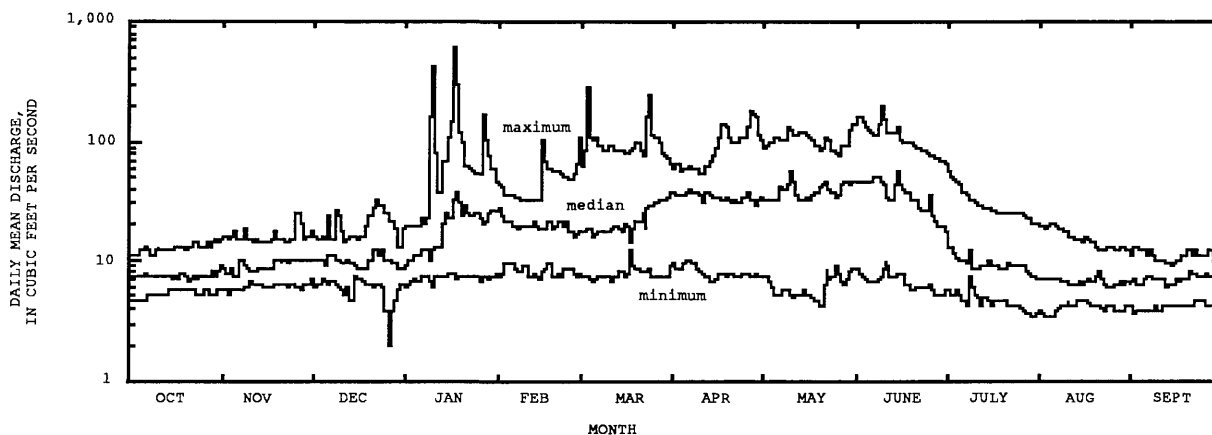
LOCATION MAP

Summary of monthly and annual discharges, 1967-74

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	12	5.3	8.2	2.9	0.35	3.0
November	15	6.0	10	3.6	0.36	3.7
December	17	5.9	11	3.9	0.37	3.9
January	85	7.1	30	24	0.80	11.2
February	49	8.4	22	12	0.55	8.1
March	87	7.8	33	27	0.82	12.1
April	83	8.6	40	28	0.71	14.7
May	102	6.1	44	30	0.69	16.1
June	106	7.9	46	35	0.75	17.0
July	31	5.1	13	8.9	0.68	4.8
August	15	4.3	7.5	3.5	0.47	2.8
September	11	4.1	7.2	2.5	0.35	2.6
Annual	45	7.9	23	13	0.56	100

Duration table of daily mean flow for period of record 1967-74

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
134	79	55	43	33	21	15	12	9.5	7.9	6.8	5.5	4.8	4.2	3.9	3.8	3.4



DEVILS WASHBOWL SPRING BASIN

13089500 DEVILS WASHBOWL SPRING NEAR KIMBERLY, ID

LOCATION.—Lat 42°35'23", long 114°20'46", in SE $\frac{1}{4}$ sec.4, T.10 S., R.18 E., Jerome County, Hydrologic Unit 17040212, on right bank 400 ft downstream from Devils Washbowl Spring, 0.5 mi upstream from mouth, which is 0.5 mi upstream from the Twin Falls of the Snake River, and 3.5 mi north of Kimberly.

PERIOD OF RECORD.—April 1950 to September 1959; April 1985 to September 1990. Records for April 1950 to September 1959 may not be comparable due to changes in inflow.

GAGE.—Water-stage recorder. Elevation of gage is 3,540 ft above sea level, from topographic map. Datum of gage prior to May 16, 1953, was 0.82 ft lower.

REMARKS.—Irrigation return bypass channel is located downstream from the gage on the right bank.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 27.5 ft³/s Oct. 3, 4, 1951; minimum daily, 9.6 ft³/s May 20-22, 26, 27, 1989.



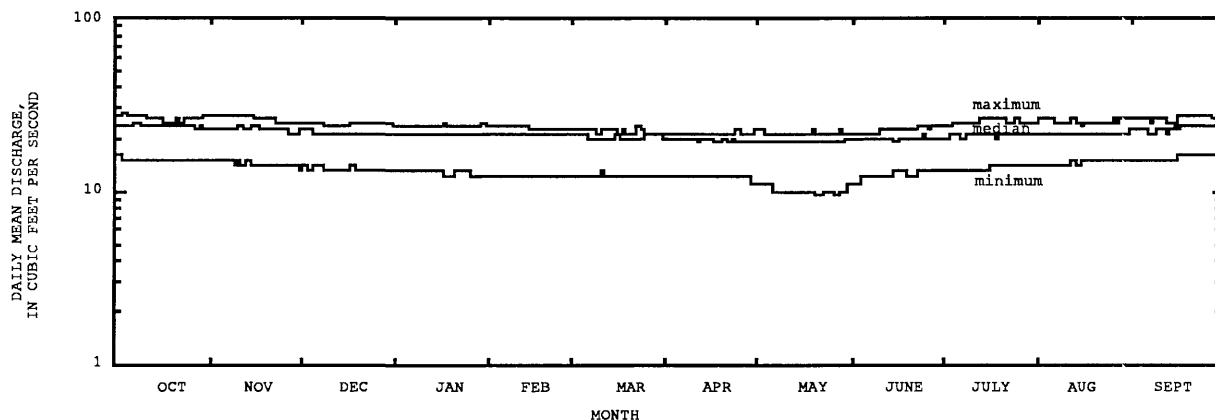
LOCATION MAP

Summary of monthly and annual discharges, 1951-59, 1986-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	26	15	22	4.4	0.20	9.3
November	26	14	21	4.6	0.22	8.9
December	25	13	20	4.3	0.22	8.5
January	24	13	19	4.6	0.24	8.2
February	23	11	19	4.7	0.25	8.0
March	22	11	18	4.4	0.24	7.8
April	22	12	18	4.0	0.22	7.7
May	22	10	17	4.0	0.23	7.5
June	23	12	18	4.0	0.22	7.9
July	25	14	19	3.9	0.21	8.2
August	25	15	20	3.9	0.19	8.7
September	26	16	22	4.1	0.19	9.3
Annual	23	13	19	4.2	0.21	100

Duration table of daily mean flow for period of record 1951-59, 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
27	26	25	24	24	23	22	21	20	16	15	13	13	12	11	11	9.8



BLUE LAKES SPRING BASIN

13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID

LOCATION.—Lat 42°36'53", long 114°28'06", in NE 1/4, NW 1/4, SE 1/4, sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

PERIOD OF RECORD.—April 1950 to September 1990.

GAGE.—Water-stage recorder. Datum of gage is 3,292 ft above sea level.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 256 ft³/s Nov. 10, 11, 1951, Oct. 24 to Nov. 13, 1952, Sept. 29, 30, 1953, Oct. 23, 24, 1957; minimum daily, 152 ft³/s Mar. 21-23, May 2-4, 1989.

Summary of monthly and annual discharges, 1951-90

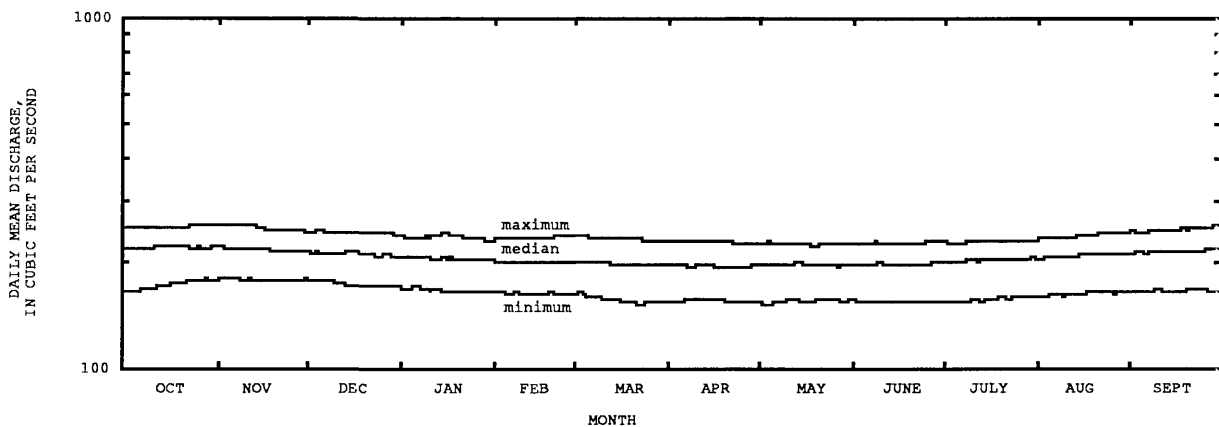
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	252	173	221	19	0.09	8.9
November	251	178	218	20	0.09	8.8
December	243	173	211	19	0.09	8.6
January	237	169	206	19	0.09	8.4
February	235	164	202	18	0.09	8.1
March	235	157	199	18	0.09	8.1
April	231	156	197	18	0.09	8.0
May	227	155	195	18	0.09	7.9
June	229	154	196	18	0.09	7.9
July	231	157	202	17	0.09	8.2
August	240	164	208	18	0.09	8.4
September	249	167	215	19	0.09	8.7
Annual	237	168	206	17	0.08	100



LOCATION MAP

Duration table of daily mean flow for period of record 1951-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
249	240	233	228	225	219	212	206	200	195	189	178	171	162	158	155	153



ROCK CREEK BASIN

13093095 ROCK CREEK AT MOUTH, NEAR TWIN FALLS, ID

LOCATION.—Lat 42°37'25", long 114°31'58", in SW 1/4, SW 1/4, SW 1/4, sec.24, T.9 S., R.16 E., Twin Falls County, Hydrologic Unit 17040212, on right bank 0.8 mi upstream from mouth, and 6 mi northwest of Twin Falls.

DRAINAGE AREA.—300 mi².

PERIOD OF RECORD.—July 1975 to December 1982.

GAGE.—Water-stage recorder. Elevation of gage is 3,150 ft above sea level, from topographic map. Record obtained at site 2 mi upstream 1922-47; records not comparable.

REMARKS.—Flow partially regulated by fish hatchery and irrigation waste flow above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,120 ft³/s from slope-area measurement after failure of irrigation canal, May 12, 1978, gage height, 9.08 ft; minimum, 70 ft³/s Mar. 9, 1981, gage height, 3.35 ft.



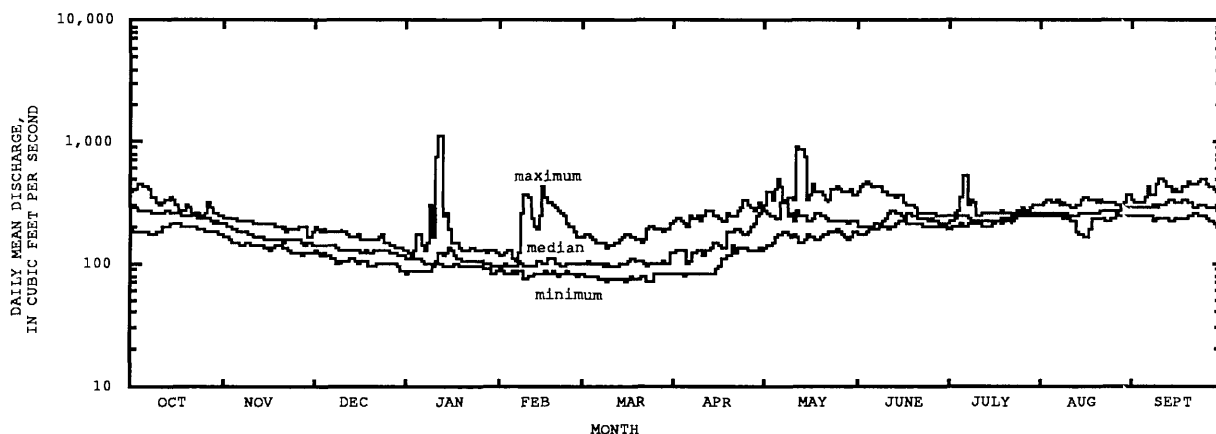
LOCATION MAP

Summary of monthly and annual discharges, 1976-82

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	298	197	257	36	0.14	10.6
November	212	139	173	24	0.14	7.2
December	169	106	134	19	0.14	5.6
January	163	98	122	23	0.19	5.0
February	178	85	119	33	0.28	4.9
March	152	77	110	29	0.26	4.6
April	225	119	169	36	0.21	7.0
May	325	182	263	61	0.23	10.9
June	322	216	248	41	0.16	10.3
July	264	226	245	14	0.06	10.1
August	316	244	268	24	0.09	11.1
September	358	249	308	37	0.12	12.7
Annual	235	175	202	20	0.10	100

Duration table of daily mean flow for period of record 1976-82

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time															
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%
428	337	304	283	268	251	231	206	168	137	115	98	88	82	80	74



BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR TWIN FALLS, ID

LOCATION.—Lat 42°42'29", long 114°48'35", in SW 1/4, NW 1/4, sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on left bank at 150 ft downstream from waterfall, at mile 0.5, 0.8 mi downstream from source, 7.5 mi southwest of Wendell, and 588.8 mi upstream from mouth of Snake River.

PERIOD OF RECORD.—April 1950 to September 1990.

GAGE.—Water-stage recorder. Elevation of gage is 2,950 ft above sea level, from topographic map.

REMARKS.—No regulation or surface diversion above station. Discharge affected by variable surface waste from irrigation, which flows over rimrocks into springs above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 483 ft³/s Oct. 9, 14, 15, 18, 19, 1965; minimum daily, 332 ft³/s May 14, 1989.



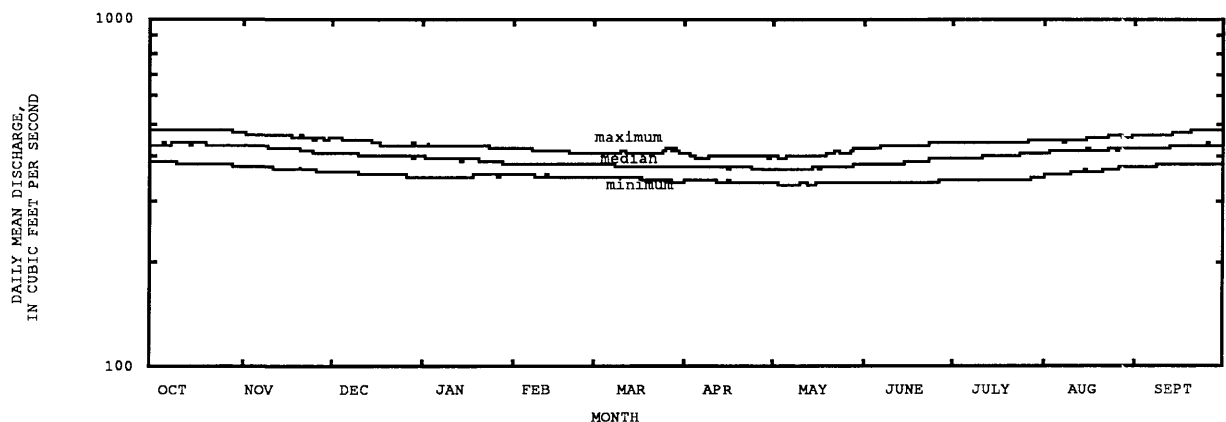
LOCATION MAP

Summary of monthly and annual discharges, 1951-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	479	381	430	24	0.05	9.1
November	457	368	419	21	0.05	8.8
December	440	356	403	19	0.05	8.5
January	432	353	391	19	0.05	8.3
February	416	351	382	17	0.04	8.0
March	412	346	375	16	0.04	7.9
April	399	340	368	15	0.04	7.7
May	407	335	370	20	0.05	7.8
June	429	340	385	26	0.07	8.1
July	440	344	394	28	0.07	8.3
August	449	362	409	27	0.07	8.6
September	472	377	424	26	0.05	8.9
Annual	430	359	396	20	0.05	100

Duration table of daily mean flow for period of record 1951-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
462	449	440	432	425	414	404	395	386	378	369	358	351	344	341	340	334



SALMON FALLS CREEK BASIN

13106600 CEDAR CREEK ABOVE RESERVOIR, NEAR ROSEWORTH, ID

LOCATION.—Lat 42°11'15", long 114°54'38", in SW¼, sec.22, T.14 S., R.13 E., Twin Falls County, Hydrologic Unit 17040213, on left bank 16 ft upstream from Rogerson-Jarbridge Road, 12.5 mi south of Roseworth, and 16.8 mi west of Rogerson.

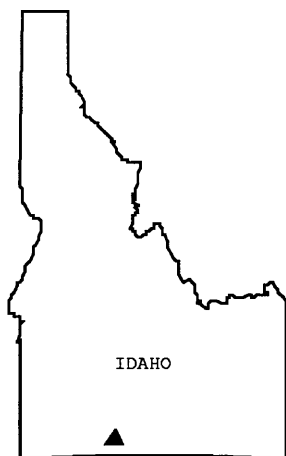
DRAINAGE AREA.—36 mi², approximately.

PERIOD OF RECORD.—April 1961 to September 1968.

GAGE.—Water-stage recorder. Elevation of gage is 5,220 ft above sea level, by barometer.

REMARKS.—In backwater from Cedar Creek Reservoir when reservoir stage exceeds 61.2 ft.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 56 ft³/s Apr 15, 1963 (gage height, 4.51 ft); minimum, 2.1 ft Mar.14, 1962 (gage height, 2.04 ft).



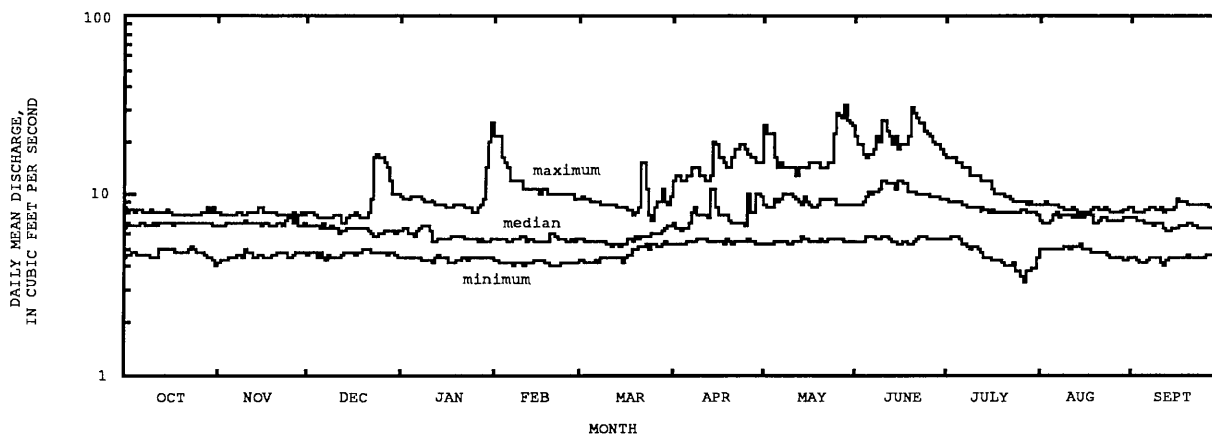
LOCATION MAP

Summary of monthly and annual discharges, 1962-68

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	7.9	4.7	6.6	1.2	0.18	7.2
November	7.5	4.7	6.5	1.2	0.18	7.1
December	9.0	4.7	6.4	1.5	0.22	7.0
January	10	4.4	6.2	1.8	0.29	6.8
February	12	4.1	6.5	2.6	0.39	7.1
March	8.5	4.7	6.1	1.1	0.19	6.7
April	13	5.7	8.9	3.3	0.37	9.8
May	14	5.5	11	3.8	0.36	11.6
June	20	5.6	12	4.9	0.41	12.9
July	11	4.6	8.2	2.4	0.30	9.0
August	8.3	5.0	7.0	1.4	0.20	7.7
September	8.4	4.5	6.6	1.6	0.24	7.3
Annual	9.8	5.9	7.6	1.5	0.20	100

Duration table of daily mean flow for period of record 1962-68

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
21	15	12	10	9.0	8.0	7.5	6.8	6.2	5.7	5.4	4.8	4.5	4.3	4.2	4.0	3.7



SALMON FALLS CREEK BASIN

13106650 HOUSE CREEK NEAR ROSEWORTH, ID

LOCATION.—Lat 42°09'39", long 114°59'00", in SW 1/4, sec.31, T.14 S., R.13 E., Twin Falls County, Hydrologic Unit 17040213, on right bank 4.8 mi upstream from maximum flow line of Cedar Creek Reservoir, and 14.7 mi southwest of Roseworth.

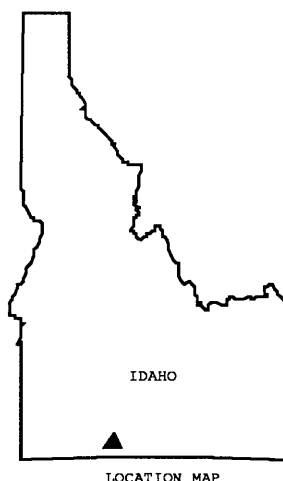
DRAINAGE AREA.—40 mi², approximately.

PERIOD OF RECORD.—May 1961 to September 1968.

GAGE.—Water-stage recorder. Elevation of gage is 5,600 ft above sea level, from topographic map.

REMARKS.—Several diversions for irrigation above station. Since 1920 water has been diverted from Deadwood Creek (tributary to East Fork Bruneau River) and Devil Creek to House Creek.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 170 ft³/s June 10, 1963 (gage height, 4.11 ft); no flow at times.

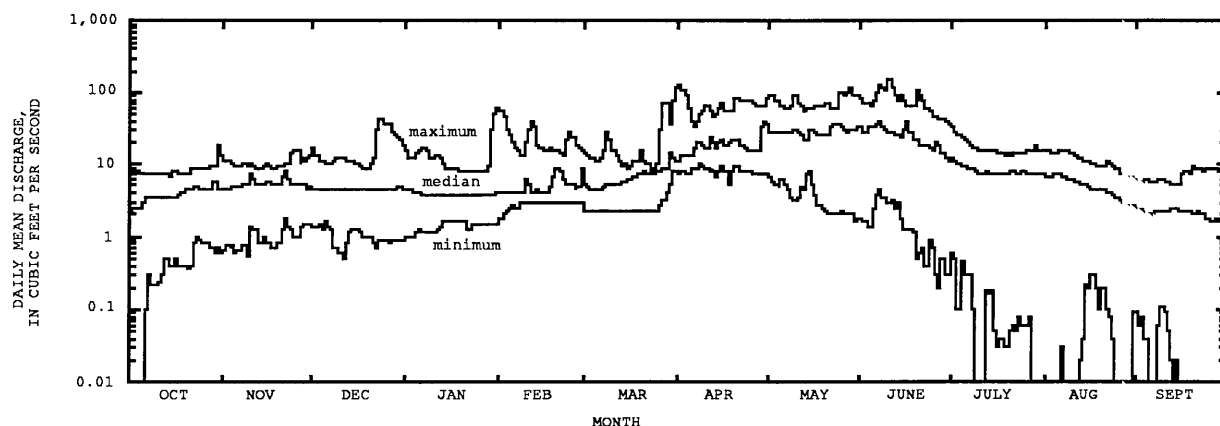


Summary of monthly and annual discharges, 1962-68

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	8.0	0.52	3.9	2.9	0.74	2.6
November	11	1.2	5.6	3.5	0.64	3.7
December	17	1.2	5.8	5.4	0.93	3.9
January	14	1.6	4.8	4.4	0.91	3.2
February	19	2.8	8.1	5.8	0.71	5.4
March	17	4.4	9.1	4.0	0.43	6.1
April	51	10	28	17	0.60	18.5
May	50	3.8	35	20	0.57	23.1
June	62	2.4	33	24	0.71	22.2
July	17	0.20	8.8	6.6	0.75	5.9
August	11	0.13	5.3	3.9	0.75	3.5
September	6.8	0.15	2.8	2.4	0.87	1.9
Annual	18	5.0	12	5.3	0.43	100

Duration table of daily mean flow for period of record 1962-68

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
86	54	37	25	16	10	7.9	5.9	4.7	3.6	2.3	0.96	0.37	0.10	0.04	0.01	0.00



SALMON FALLS CREEK BASIN

13107000 CEDAR CREEK NEAR ROSEWORTH, ID

LOCATION.—Lat 42°14'58", long 114°52'20", in SW 1/4, sec.31, T.13 S., R.14 E., Twin Falls County, Hydrologic Unit 17040213, on right bank 21 ft upstream from stock bridge, 1.7 mi downstream from Cedar Creek Dam, and 8.8 mi south of Roseworth.

DRAINAGE AREA.—130 mi², approximately.

PERIOD OF RECORD.—May 1909 to December 1914, February to June 1916, May 1957 to July 1967.

GAGE.—Water-stage recorder and artificial control. Elevation of gage is 5,050 ft above sea level, by barometer. Prior to May 1957, nonrecording gage at site 1.8 mi upstream at different datum.

REMARKS.—Flow completely regulated by Cedar Creek Reservoir (capacity, 29,930 acre-ft). Several diversions for irrigation above station. Since 1920, water has been diverted from Deadwood Creek (tributary of East Fork Bruneau River) and Devil Creek to House Creek which enters Cedar Creek Reservoir.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 200 ft³/s Mar 1, 1910 (gage submerged); no flow for long periods in most years during irrigation seasons.



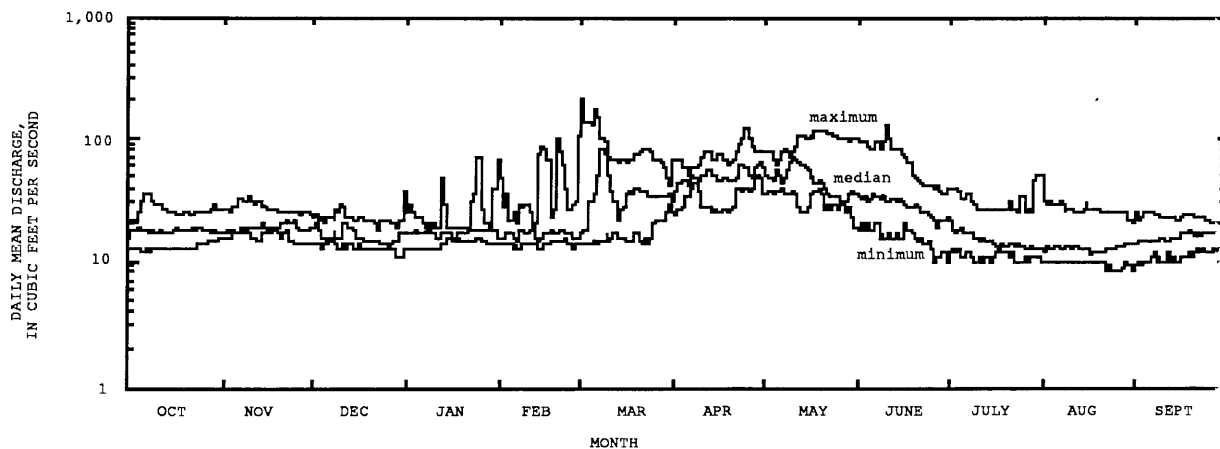
LOCATION MAP

Summary of monthly and annual discharges, 1910-14

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	26	14	18	4.8	0.26	5.5
November	27	16	20	4.1	0.20	6.1
December	21	14	17	3.1	0.18	5.2
January	21	16	19	1.9	0.10	5.6
February	29	16	22	5.1	0.23	6.6
March	80	19	44	22	0.50	13.3
April	59	37	51	8.7	0.17	15.5
May	91	33	53	23	0.43	16.0
June	67	16	35	20	0.58	10.7
July	30	12	18	7.7	0.42	5.6
August	26	11	16	6.9	0.44	4.8
September	22	11	17	4.1	0.25	5.0
Annual	32	21	28	4.2	0.15	100

Duration table of daily mean flow for period of record 1910-14

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
113	73	56	45	38	28	23	20	18	17	15	13	11	10	9.3	8.9	7.7



MUD LAKE-LOST RIVER BASIN

13108900 CAMAS CREEK AT RED ROAD, NEAR KILGORE, ID

LOCATION.—Lat 44°17'20", long 111°51'28", in NE 1/4, NE 1/4, sec.18, T.11 S., R.39 E., Clark County, Hydrologic Unit 17040203, on left bank 200 ft upstream from county road bridge, 1.5 mi southeast of intersection of Red Road and Dubois-Kilgore Road, and 8 mi south of Kilgore.

DRAINAGE AREA.—262 mi².

PERIOD OF RECORD.—July 1985 to September 1990, former station, "Camas Creek at Eighteenmile Shearing Corral, near Kilgore" (sta 13108500) at site 1 mi upstream, May 1937 to October 1953 (no winter records prior to 1947), and April 1969 to September 1973. Records may not be comparable.

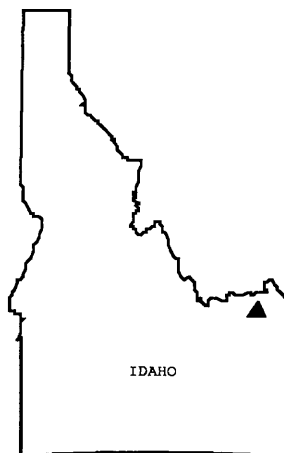
GAGE.—Water-stage recorder. Elevation of gage is 6,220 ft above sea level, from topographic map.

REMARKS.—None.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 1,040 ft³/s Apr 23, 1986; minimum daily, 1.3 ft³/s Sept. 2, 1990.

Summary of monthly and annual discharges, 1986-90

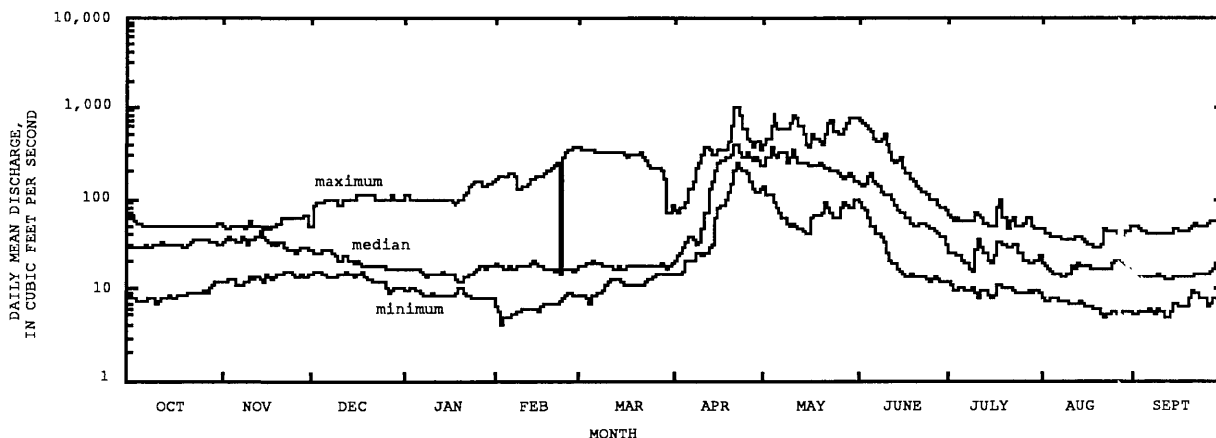
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	50	8.4	28	18	0.63	3.3
November	49	14	30	15	0.51	3.5
December	96	13	34	35	1.0	4.0
January	110	8.4	33	43	1.3	3.9
February	211	6.4	53	88	1.7	6.2
March	277	12	70	116	1.7	8.1
April	352	140	192	90	0.47	22.4
May	522	77	243	215	0.89	28.4
June	295	30	114	109	0.95	13.3
July	53	9.5	25	18	0.74	2.9
August	36	6.1	17	12	0.75	2.0
September	45	6.5	17	16	0.91	2.0
Annual	174	34	71	59	0.83	100



LOCATION MAP

Duration table of daily mean flow for period of record 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
468	205	105	71	49	25	21	18	16	15	12	7.6	6.4	5.4	4.6	3.8	1.7



MUD LAKE-LOST RIVER BASIN

13111500 CAMAS CREEK NEAR CAMAS, ID

LOCATION.—Lat 44°04', long 112°02', in NE 1/4, sec.34, T.9 S., R.36 E., Clark County, Hydrologic Unit 17040214, on right bank 1.0 mi east of railroad bridge, 5 mi northwest of Camas, and 8 mi southeast of Dubois.

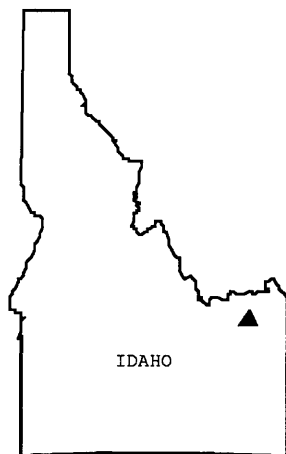
DRAINAGE AREA.—285 mi².

PERIOD OF RECORD.—April 1921 to September 1926, Prior to Nov. 20, 1921, nonrecording gage at same site and datum.

GAGE.—Water-stage recorder. Elevation of gage is 4,840 ft above sea level, by barometer,

REMARKS.—Several irrigation and stock diversions above station. Flow regulated by Lone Tree Reservoir 24 mi upstream.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 645 ft³/s May 22, 1922 (gage height, 4.82 ft); minimum, 2.6 ft³/s July 5, 6, May 29 to June 20, 1926, gage height, -0.17 ft.



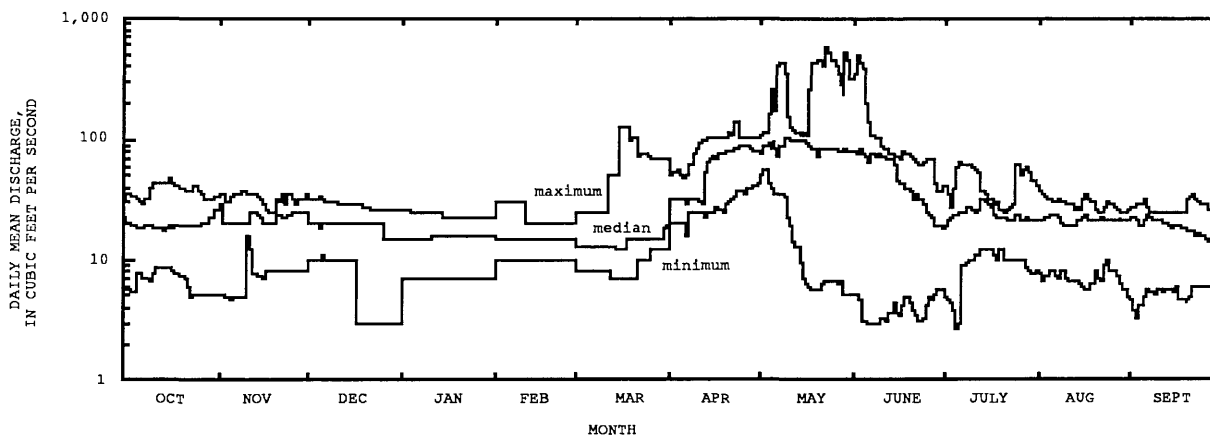
LOCATION MAP

Summary of monthly and annual discharges, 1922-26

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	37	7.6	21	13	0.61	5.8
November	32	11	21	8.2	0.38	5.9
December	28	6.6	18	7.8	0.43	5.0
January	23	7.0	16	5.8	0.37	4.4
February	24	10	16	5.3	0.33	4.5
March	64	9.6	24	23	0.94	6.7
April	82	35	56	20	0.36	15.6
May	209	20	87	76	0.87	24.0
June	71	4.0	40	32	0.78	11.2
July	42	9.8	25	15	0.58	6.9
August	28	7.1	19	9.8	0.52	5.2
September	27	5.7	17	9.8	0.58	4.7
Annual	41	19	30	7.7	0.26	100

Duration table of daily mean flow for period of record 1922-26

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
127	91	74	49	38	29	25	21	18	14	10	6.8	5.3	4.1	3.1	2.9	2.7



MUD LAKE-LOST RIVER BASIN

13117020 BIRCH CREEK AT BLUE DOME INN, NEAR RENO, ID

LOCATION.—Lat 44°09'14", long 112°54'24", in NE 1/4, SW 1/4, sec.32, T.11 S., R.39 E., Clark County, Hydrologic Unit 17040216, on left bank 200 ft upstream from county road bridge, 1.5 mi southeast of intersection of Red Road and Dubois-Kilgore Road, and 8 mi south of Kilgore.

DRAINAGE AREA.—380 mi², approximately.

PERIOD OF RECORD.—June 1967 to September 1981 (no winter records most years), April 1985 to September 1990. Prior to June 1972, at site 40 ft downstream at a different datum.

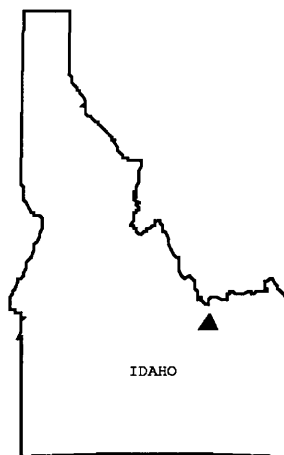
GAGE.—Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

REMARKS.—Diversions above station for irrigation of about 280 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 149 ft³/s July 30, 1969; maximum gage height, 4.14 ft, Feb. 20, 21, 1989 (backwater from ice); minimum recorded, 47 ft³/s June 26-29, 1977, gage height, 1.53 ft.

Summary of monthly and annual discharges, 1978, 1986-90

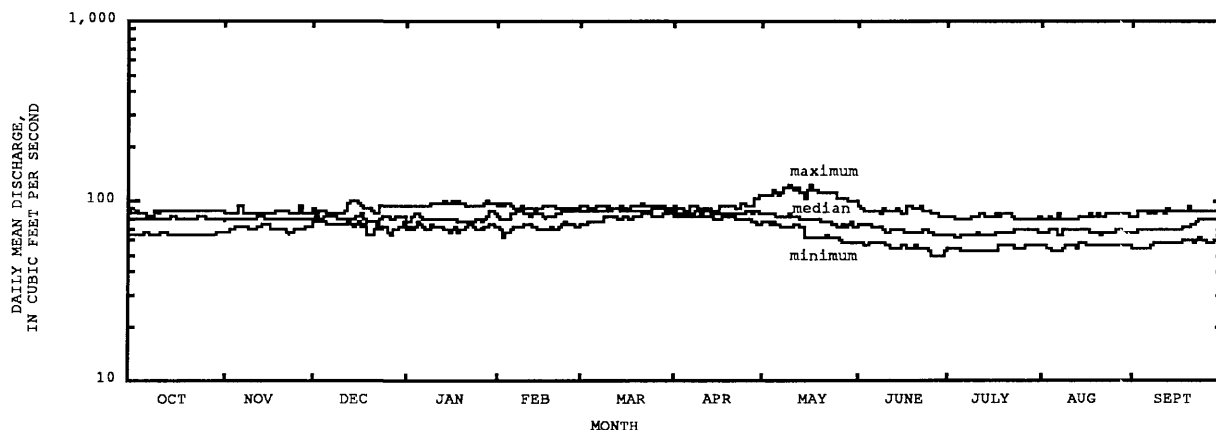
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	84	65	77	6.8	0.09	8.3
November	84	70	78	5.4	0.07	8.4
December	85	74	80	4.4	0.05	8.6
January	94	73	80	7.9	0.10	8.6
February	88	72	81	6.3	0.08	8.7
March	91	82	87	3.6	0.04	9.3
April	88	83	85	2.2	0.03	9.2
May	82	76	79	2.6	0.03	8.5
June	84	62	72	8.4	0.12	7.8
July	79	59	69	8.3	0.12	7.4
August	81	60	69	9.0	0.13	7.4
September	82	60	72	8.9	0.12	7.8
Annual	80	73	78	2.5	0.03	100



LOCATION MAP

Duration table of daily mean flow for period of record 1978, 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
95	91	88	87	85	83	81	79	77	74	70	64	61	59	59	58	58



MUD LAKE-LOST RIVER BASINS

13130900 ANTELOPE CREEK ABOVE WILLOW CREEK, NEAR DARLINGTON, ID

LOCATION.--Lat 43°40'43", long 113°37'45", in NE 1/4, SW 1/4, NW 1/4, sec.17, T.4 N., R.24 E., Custer County, Hydrologic Unit 17040218, at Marcroft Ranch, 0.2 mi upstream from Willow Creek, and 14 mi southwest of Darlington.

DRAINAGE AREA.--93.4 mi². Mean elevation, 7,960 ft.

PERIOD OF RECORD.--May 1966 to September 1974, May 1913 to September 1916, May 1920 to September 1922 at site 4 mi downstream, published as "near Darlington"; records not equivalent owing to diversions and inflow.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above sea level, from topographic map.

REMARKS.--Diversions above station for irrigation of about 800 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 829 ft³/s May 24, 1967, gage height, 6.86 ft; minimum, 12 ft³/s Jan. 2, 1974.



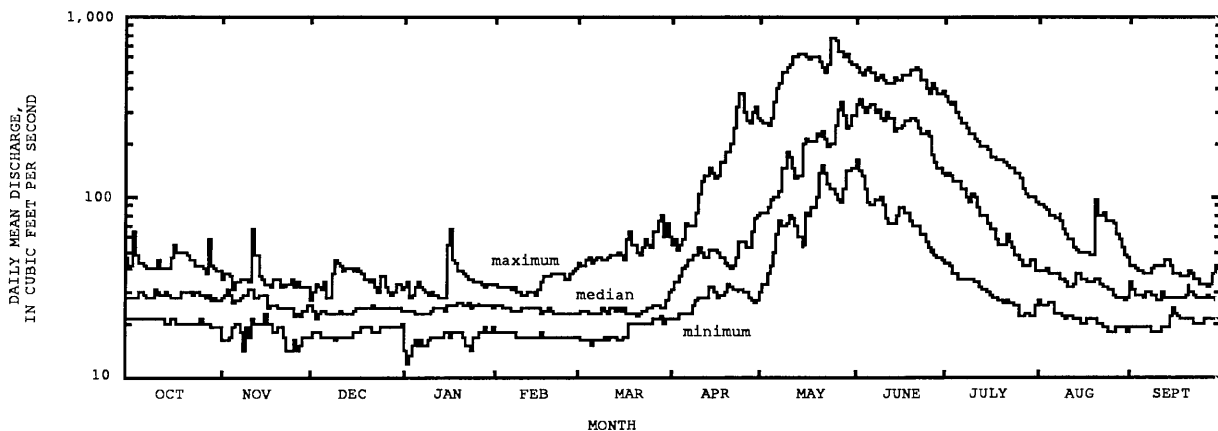
LOCATION MAP

Summary of monthly and annual discharges, 1967-74

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	42	21	30	7.7	0.26	3.2
November	34	18	26	4.5	0.17	2.8
December	35	18	25	5.1	0.21	2.6
January	29	17	24	4.0	0.17	2.6
February	33	17	25	5.0	0.20	2.6
March	46	19	28	11	0.37	3.0
April	173	30	72	53	0.73	7.7
May	517	110	254	139	0.55	27.1
June	448	112	288	107	0.37	30.7
July	182	43	96	52	0.54	10.2
August	54	28	40	10	0.26	4.3
September	36	25	30	4.3	0.14	3.2
Annual	113	46	78	24	0.31	100

Duration table of daily mean flow for period of record 1967-74

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
539	344	232	146	91	47	37	32	28	26	24	21	19	17	17	15	14



RILEY CREEK BASIN

13134000 RILEY CREEK BELOW LEWIS SPRING, NEAR HAGERMAN, ID

LOCATION.--Lat 42°45'50", long 114°51'30", in SE 1/4, NW 1/4, sec.6, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on left bank 560 ft downstream from confluence of Riley Creek and Lewis Spring, 0.1 mi downstream from U.S. Fish Hatchery, and 4 mi southeast of Hagerman.

PERIOD OF RECORD.--June 1951 to September 1959.

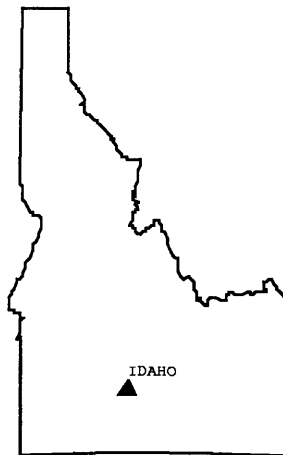
GAGE.--Water-stage recorder. Elevation of gage is 2,955 ft above sea level, from topographic map. Prior to June 17, 1955, at site 1,200 ft downstream at different datum.

REMARKS.--Flow at this station plus flow of Brailsford Ditch gives total flow from Riley and Lewis Springs plus intervening inflow. Flow diverted from Lewis Spring to Brailsford Ditch for irrigation. Slight regulation by ponds at fish hatchery. Beginning about Aug. 30, 1957, water was diverted from Bickel Spring through Bickel Ditch to Riley Creek upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s Nov. 14, 15, 20-23, 1953; minimum daily, 49 ft³/s July 28, 1959.

Summary of monthly and annual discharges, 1952-59

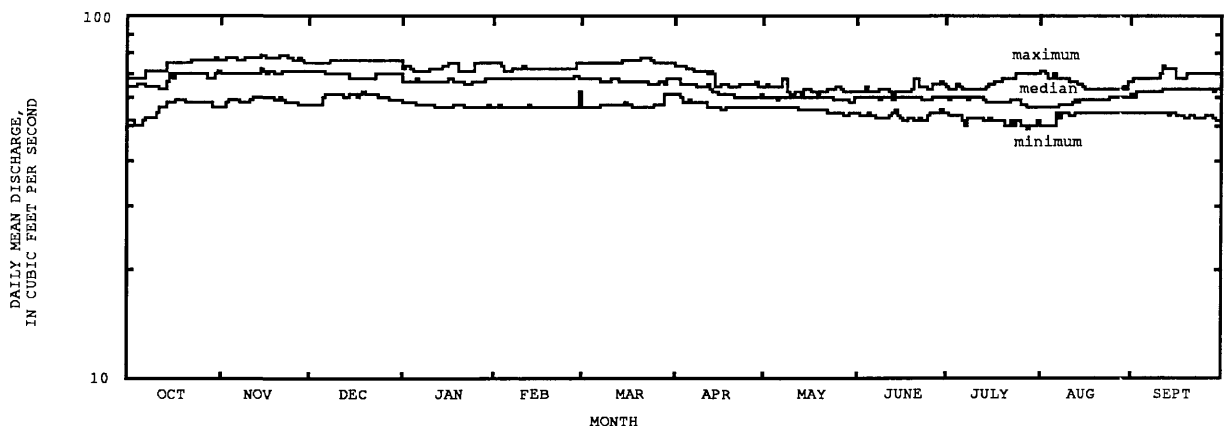
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	71	57	65	5.6	0.09	8.6
November	77	59	68	6.3	0.09	9.0
December	72	61	67	4.4	0.07	8.9
January	72	57	65	5.9	0.09	8.7
February	72	57	65	6.0	0.09	8.5
March	75	58	66	5.7	0.09	8.8
April	66	59	62	3.3	0.05	8.2
May	62	56	59	2.4	0.04	7.8
June	63	53	59	3.6	0.06	7.8
July	66	52	58	4.9	0.08	7.7
August	65	54	58	4.0	0.07	7.7
September	68	53	62	4.6	0.07	8.3
Annual	68	58	63	4.0	0.06	100



LOCATION MAP

Duration table of daily mean flow for period of record 1952-59

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
77	74	72	71	70	67	64	63	61	60	58	56	54	52	51	51	50



MALAD RIVER BASIN

13150000 FISH CREEK NEAR CAREY, ID

LOCATION.--Lat 43°26'00", long 113°49'00", in sec.15, T.1 N., R.22 E., Blaine County, Hydrologic Unit 17040221, on right bank 600 ft downstream from Carey Valley Reservoir Company's dam and 11 mi northeast of Carey.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--May 1919 to September 1920. June 1923 to September 1932 (irrigation season). May 1933 to September 1938 and June to August 1939.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 5,215 ft above sea level, by barometer. Prior to Jan. 20, 1920, at site 400 ft downstream at different datum. Jan. 21, 1920, to Sept. 30, 1920, nonrecording and sharp-crested weir 600 ft upstream at different datum. May 12, 1923, to Apr. 28, 1926, nonrecording gage and Apr. 29, 1926, to Nov. 9, 1930, water-stage recorder and sharp-crested weir 1.5 mi downstream at different datum.

REMARKS.--Flow regulated by storage in Fish Creek Reservoir (capacity, about 14,400 acre-ft). Several small diversions for irrigation above dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 341 ft³/s May 1, 1938, gage height, 3.10 ft; reservoir gates usually closed during nonirrigation season and flow past station is leakage only.



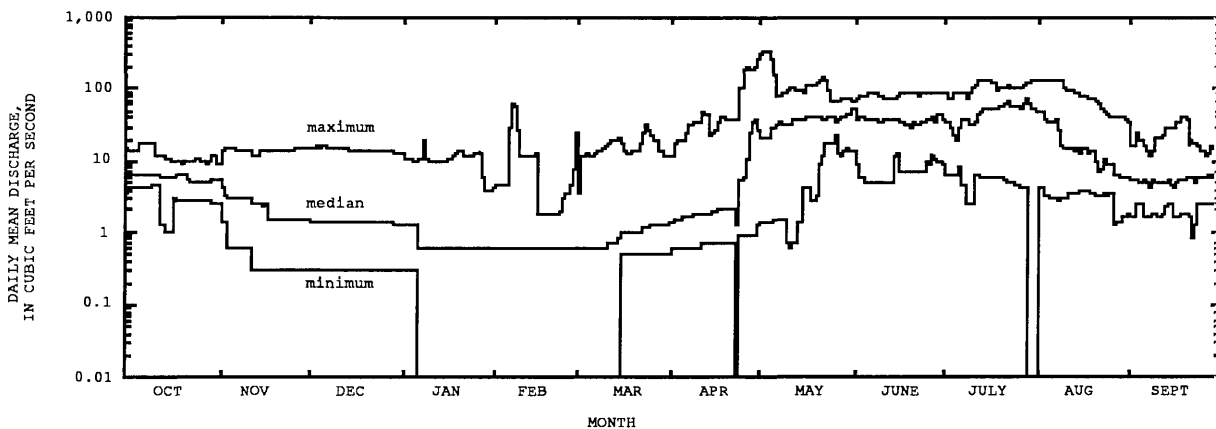
LOCATION MAP

Summary of monthly and annual discharges, 1920, 1930, 1934-38

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	9.5	4.4	6.1	1.7	0.28	3.4
November	14	1.1	3.8	4.5	1.2	2.2
December	14	0.30	3.1	4.9	1.6	1.8
January	10	0.30	2.2	3.6	1.7	1.2
February	12	0.00	2.3	4.2	1.8	1.3
March	16	0.50	3.9	5.4	1.4	2.2
April	46	1.0	16	18	1.1	9.0
May	114	19	45	32	0.71	25.4
June	47	9.5	35	15	0.43	19.7
July	83	12	39	25	0.64	22.3
August	37	4.4	15	11	0.74	8.7
September	7.5	3.8	5.1	1.3	0.26	2.9
Annual	25	8.2	15	5.5	0.37	100

Duration table of daily mean flow for period of record 1920, 1930, 1934-38

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
103	67	46	32	23	13	7.0	5.2	3.4	1.6	0.89	0.46	0.33	0.22	0.11	0.06	0.01



MALAD RIVER BASIN

13151500 LITTLE WOOD RIVER AT SHOSHONE, ID

LOCATION.—Lat 42°56'00", long 114°24'00", in sec. 2, T. 6 S., R. 17 E., Lincoln County, Hydrologic Unit 17040221, on left bank just upstream from dam used prior to 1955 for diversion of town water supply, 400 ft upstream from highway bridge in Shoshone.

DRAINAGE AREA.—620 mi², approximately.

PERIOD OF RECORD.—April 1922 to December 1959 (irrigation seasons only prior to 1955).

GAGE.—Water-stage recorder. Datum of gage is 3,956.99 ft above sea level. Prior to Oct. 18, 1954, at datum 1.98 ft higher.

REMARKS.—Diversion for irrigation of about 52,300 acres (1950 determination) above station. Flow affected by operation of Milner-Gooding Canal, which diverts from Snake River and crosses Little Wood River above station, by operation of five reservoirs above Carey, and by Big Wood River water deliveries through Byrns Slough to Dietrich Canal, which diverts from left bank of Little Wood River at Richfield.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge recorded, 697 ft³/s May 13, 1958, gage height, 4.78 ft; maximum gage height, 9.42 ft Feb. 28, 1957 (ice jam); no flow July 29, 1931, Oct. 3, 1938.



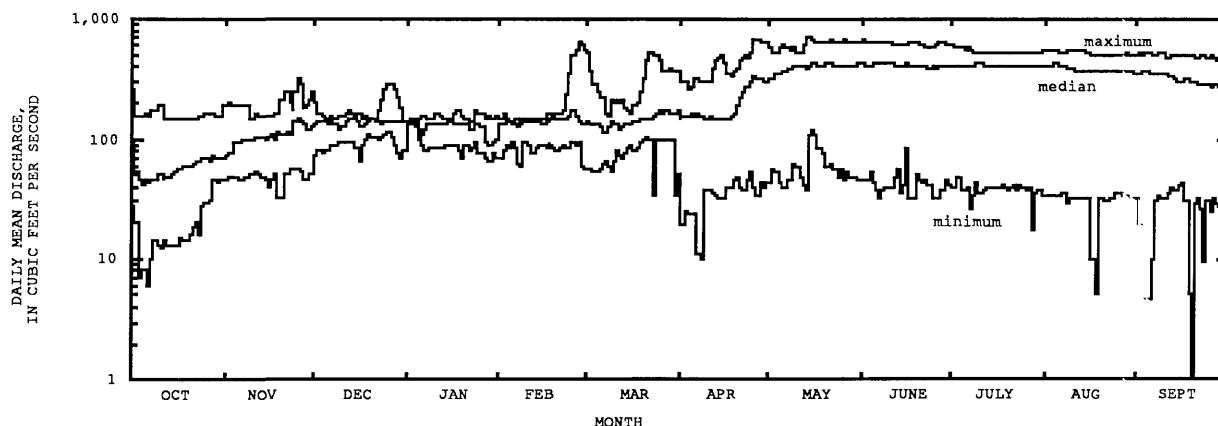
LOCATION MAP

Summary of monthly and annual discharges, 1955-59

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	74	24	50	18	0.35	1.5
November	136	81	113	25	0.22	3.3
December	148	124	141	9.9	0.07	4.1
January	143	97	123	22	0.18	3.6
February	215	89	146	46	0.32	4.3
March	231	100	160	51	0.32	4.7
April	284	144	225	58	0.26	6.6
May	580	432	499	59	0.12	14.7
June	597	452	517	53	0.10	15.2
July	515	496	504	8.0	0.02	14.8
August	501	475	485	11	0.02	14.2
September	455	433	440	8.8	0.02	12.9
Annual	306	259	284	18	0.06	100

Duration table of daily mean flow for period of record 1955-59

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
655	557	539	520	501	464	397	180	154	137	110	76	50	28	16	14	8.2



CLOVER CREEK BASIN

13154000 CLOVER CREEK NEAR BLISS, ID

LOCATION.--Lat 43°01'30", long 115°00'20", in NE 1/4, sec.3, T.5 S., R.12 E., Gooding County, Hydrologic Unit 17040212 just downstream from Calf Creek and 6.5 mi northwest of Bliss.

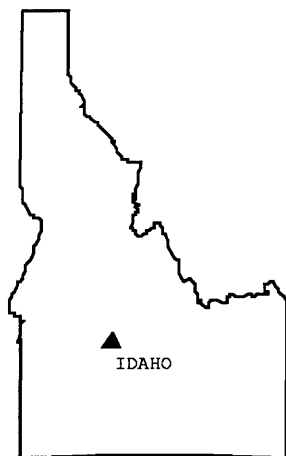
DRAINAGE AREA.--140 mi². Mean elevation, 4,700 ft.

PERIOD OF RECORD.--April 1938 to October 1943, August 1957 to September 1962, at site 3 mi downstream.

GAGE.--Water-stage recorder. Datum of gage is 3,119.97 ft above sea level. April 1938 to October 1943 at site 3 mi downstream at different datum.

REMARKS.--Many diversions above and below station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft³/s February 10, 1962, gage height, 8.59 ft; from curve extended about 2,730 ft³/s, which was slope-area measurement of peak March 7, 1960; minimum daily, 0.7 ft³/s August 21 to September 24-26, 1938-43, 1957-62; maximum discharge, that of February 10, 1962; no flow for many days in 1938-40, 1942. Flood of Dec. 1955 reached a stage of about 10.2 ft, present site and datum (corrected), from floodmarks.



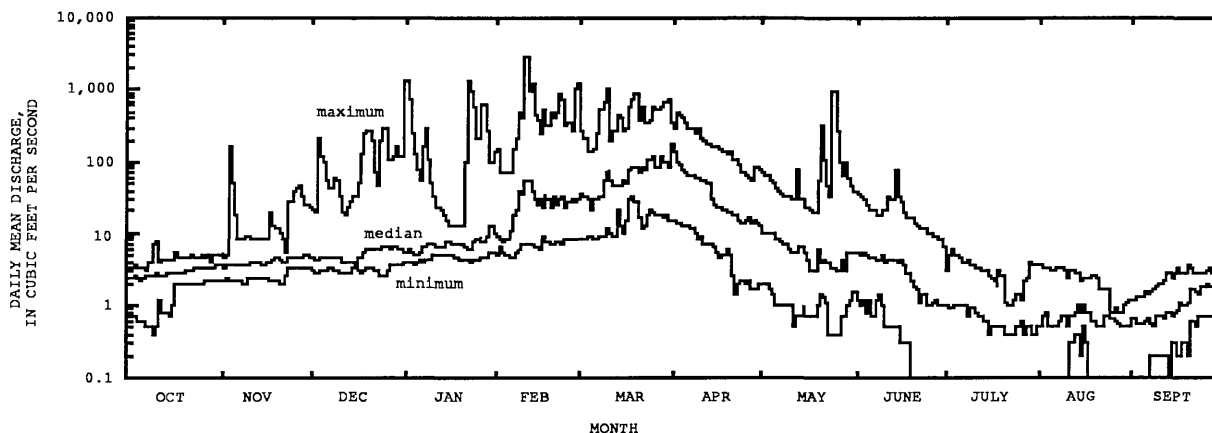
LOCATION MAP

Summary of monthly and annual discharges, 1939-43, 1958-62

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	3.9	1.3	2.8	0.76	0.27	0.8
November	15	3.1	6.1	3.8	0.62	1.7
December	95	3.0	20	29	1.4	5.5
January	208	4.6	37	65	1.8	10.3
February	265	7.6	95	84	0.88	26.1
March	308	24	115	89	0.77	31.8
April	184	6.4	64	58	0.90	17.7
May	73	1.0	14	22	1.5	4.0
June	18	0.84	4.9	5.7	1.2	1.4
July	1.7	0.06	0.72	0.54	0.75	0.2
August	1.3	0.39	0.70	0.33	0.47	0.2
September	2.2	0.64	1.2	0.53	0.43	0.3
Annual	86	7.0	30	23	0.78	100

Duration table of daily mean flow for period of record 1939-43, 1958-62

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
473	151	64	36	21	9.8	5.6	4.1	3.1	2.0	1.0	0.46	0.24	0.08	0.04	0.02	0.00



CLOVER CREEK BASIN

13154400 CLOVER CREEK NEAR KING HILL, ID

LOCATION.--Lat 43°00'11", long 115°10'44", in NW 1/4, NE 1/4, SW 1/4, sec. 8, T.5 S., R.11 E., Elmore County, Hydrologic Unit 17040212, on right bank 0.4 mi upstream from mouth, and 1.2 mi east of King Hill.

DRAINAGE AREA.--265 mi², approximately.

PERIOD OF RECORD.--April 1985 to September 1990.

GAGE.--Water-stage recorder. Elevation of gage is 2,550 ft above sea level, from topographic map.

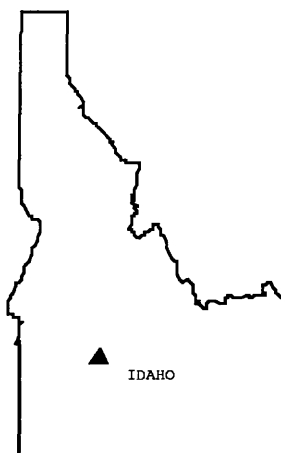
REMARKS.--Flow regulated by Pioneer Reservoir (sta 13154120) and other diversions upstream for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 23, 1964, reached a discharge of 10,100 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s February 10, 1986, gage height, 9.50 ft, from slope-area measurement of peak flow; minimum daily, 3.1 ft³/s November 1, 1988.

Summary of monthly and annual discharges, 1986-90

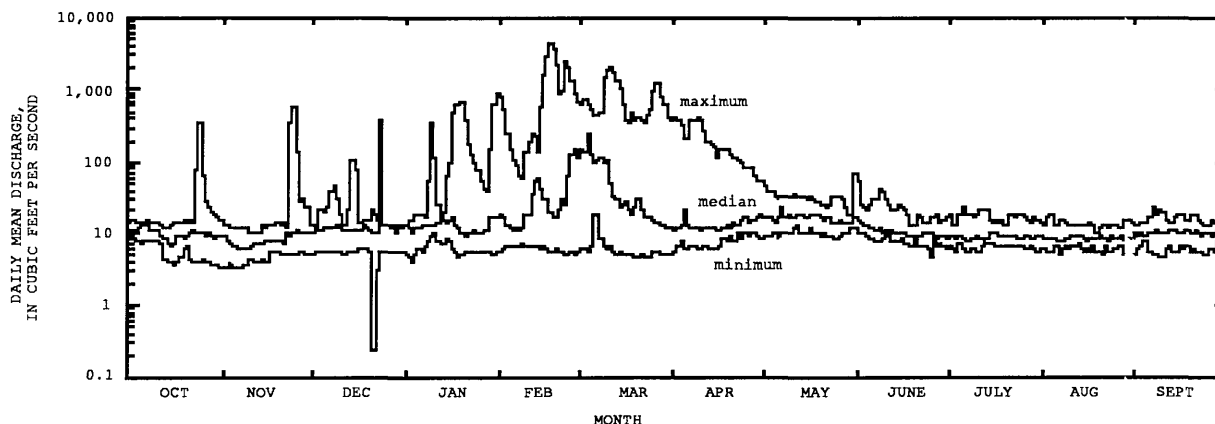
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	29	5.4	12	9.4	0.75	1.7
November	43	5.2	15	16	1.1	2.1
December	18	5.6	11	5.7	0.50	1.7
January	175	11	49	71	1.4	6.9
February	1,020	20	259	428	1.7	36.5
March	673	23	243	289	1.2	34.2
April	187	11	62	77	1.3	8.7
May	29	12	18	7.6	0.41	2.6
June	21	8.1	12	5.1	0.42	1.7
July	17	6.3	9.6	4.1	0.43	1.3
August	13	5.7	8.5	3.0	0.35	1.2
September	15	5.8	10	4.0	0.40	1.4
Annual	148	14	58	61	1.0	100



LOCATION MAP

Duration table of daily mean flow for period of record 1986-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
1,040	254	80	32	21	16	13	12	10	8.4	7.0	5.7	5.0	4.5	3.8	3.4	2.7



LITTLE CANYON CREEK BASIN

13155300 LITTLE CANYON CREEK AT STOUT CROSSING, NEAR GLENN'S FERRY, ID

LOCATION.--Lat 43°09'14", long 115°18'32", in NE 1/4, NW 1/4, NE 1/4, sec.19, T.3 S., R.10 E., Elmore County, Hydrologic Unit 17050101 on left bank at county road crossing 13.8 mi north of Glenn's Ferry.

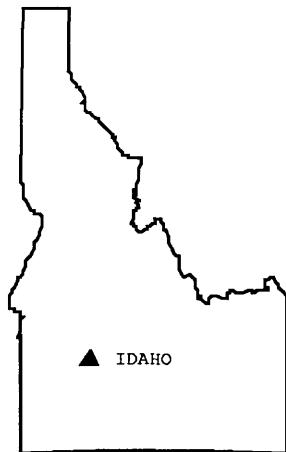
DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--Annual maximum, water years 1961-65, November 1965 to September 1971.

GAGE.--Water-stage recorder. Datum of gage is 4,918 ft above sea level. November 3, 1960, to November 4, 1965, crest-stage gage at same site at datum 7.28 ft lower.

REMARKS.--None.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 500 ft³/s December 23, 1964 (gage height, 7.44 ft, present datum); no flow September 7, 1967.



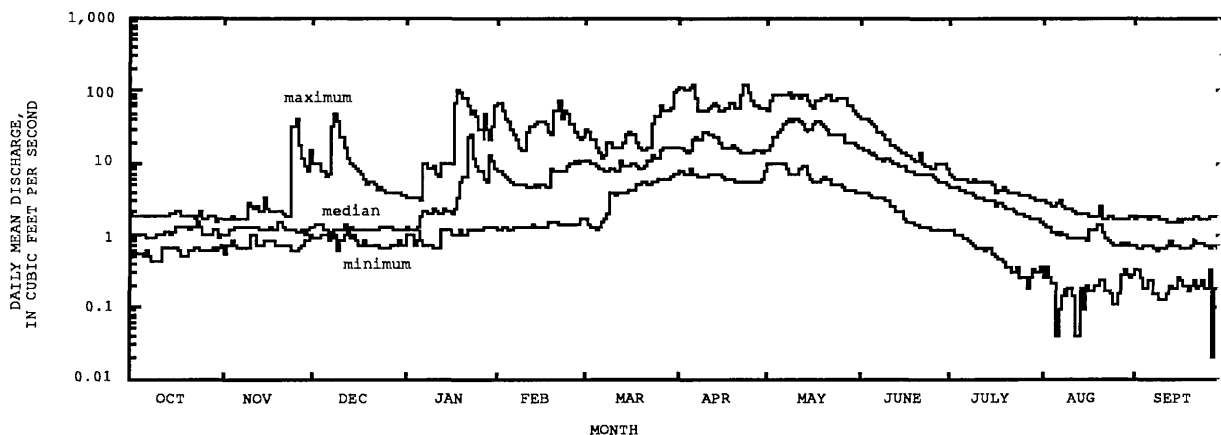
LOCATION MAP

Summary of monthly and annual discharges, 1967-71

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	1.3	0.63	0.95	0.31	0.32	0.7
November	5.9	0.87	2.0	2.2	1.1	1.5
December	10	0.90	3.0	4.2	1.4	2.3
January	25	1.2	11	9.2	0.86	8.1
February	27	4.3	13	9.1	0.70	9.9
March	21	8.2	15	5.3	0.36	11.3
April	77	6.4	33	29	0.88	25.0
May	60	6.8	38	21	0.56	29.2
June	19	2.2	11	6.3	0.59	8.1
July	4.7	0.56	3.0	1.6	0.53	2.3
August	2.0	0.53	1.2	0.68	0.56	0.9
September	1.6	0.34	0.93	0.58	0.63	0.7
Annual	18	3.6	11	5.7	0.53	100

Duration table of daily mean flow for period of record 1967-71

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
89	53	35	21	16	8.8	5.4	3.0	1.5	1.2	0.98	0.68	0.47	0.28	0.20	0.16	0.05



BENNETT CREEK BASIN

13156500 BENNETT CREEK NEAR BENNETT, ID

LOCATION.--Lat 43°13'30", long 115°31'30", in sec. 28, T.2 S., R.8 E., Elmore County, Hydrologic Unit 17050101, on right bank 300 ft downstream from Dive Creek and 7.5 mi southwest of Bennett Post Office (Dixie store).

DRAINAGE AREA.--21.3 mi².

PERIOD OF RECORDS.--June 1938 to September 1945.

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above sea level, from topographic map.

REMARKS.--No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft³/s April 2, 1943 (gage height, 6.05 ft); practically no flow at times during most years.



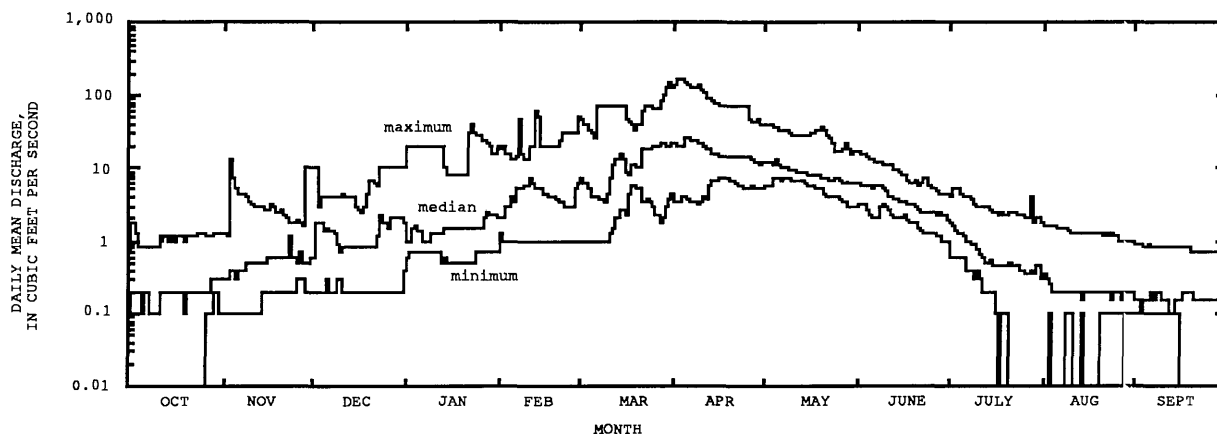
LOCATION MAP

Summary of monthly and annual discharges, 1939-45

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	0.96	0.05	0.36	0.39	1.1	0.5
November	3.1	0.17	1.1	1.0	0.94	1.4
December	5.4	0.22	2.0	1.8	0.94	2.6
January	19	0.70	3.9	6.5	1.7	5.2
February	21	1.0	7.9	7.1	0.90	10.4
March	56	3.3	20	18	0.90	26.1
April	90	6.5	25	29	1.1	33.4
May	24	5.7	10	6.5	0.64	13.4
June	8.9	2.1	4.0	2.4	0.61	5.3
July	2.9	0.22	0.97	0.94	0.97	1.3
August	0.87	0.06	0.26	0.28	1.1	0.3
September	0.53	0.09	0.19	0.16	0.83	0.2
Annual	19	2.1	6.3	5.8	0.91	100

Duration table of daily mean flow for period of record 1939-45

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
76	26	17	12	8.3	4.6	2.6	1.5	0.85	0.51	0.23	0.12	0.11	0.06	0.03	0.02	0.00



CANYON CREEK BASIN

13159800 CANYON CREEK AT OREGON TRAIL CROSSING, NEAR MOUNTAIN HOME, ID

LOCATION.--Lat 43°15'39", long 115°42'06", in SE 1/4, NW 1/4, SE 1/4, sec.11, T.2 S., R.6 E., Elmore County, Hydrologic Unit 17050101, on right bank 31 mi upstream from mouth, 3 mi downstream from confluence of Syrup Creek and Long Tom Creek, and 8.5 mi north of Mountain Home.

DRAINAGE AREA.--70.5 mi², approximately.

PERIOD OF RECORD.--March 1984 to September 1990.

GAGE.--Water-stage recorder. Elevation of gage is 3,540 ft above sea level, from topographic map.

REMARKS.--Flow partly regulated by Long Tom Reservoir, which receives water by interbasin transfer from South Fork Boise River drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft³/s February 23, 1986, gage height, 5.09 ft; minimum daily, 0.24 ft³/s September 10, 1988.



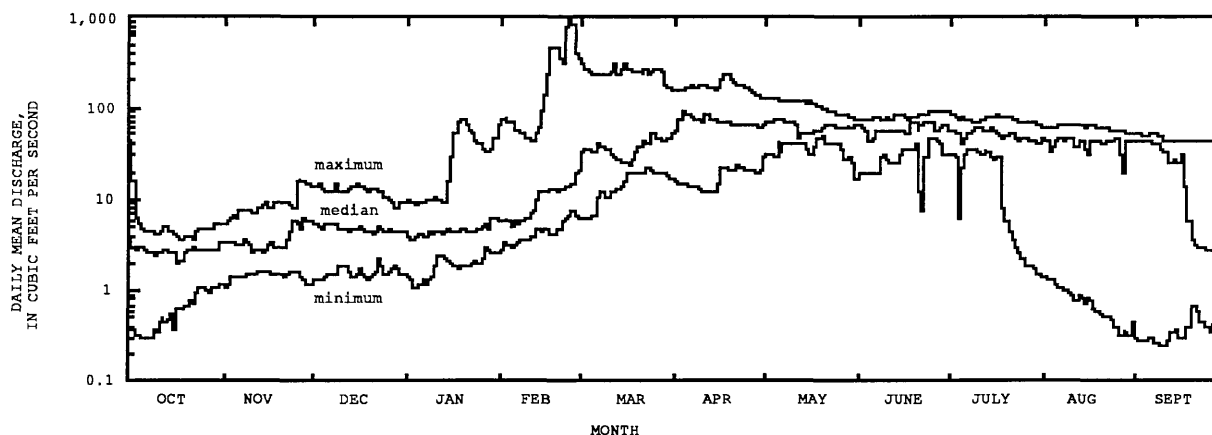
LOCATION MAP

Summary of monthly and annual discharges, 1985-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	5.7	0.65	2.9	1.8	0.63	0.7
November	8.1	1.5	4.4	2.3	0.52	1.0
December	12	1.6	5.8	4.4	0.75	1.4
January	29	2.2	8.9	10	1.1	2.1
February	261	5.7	53	102	1.9	12.5
March	196	23	81	87	1.1	19.0
April	123	24	64	36	0.57	14.9
May	70	36	57	15	0.26	13.3
June	79	36	54	19	0.35	12.6
July	72	31	48	16	0.33	11.3
August	61	0.76	33	22	0.68	7.7
September	36	0.37	15	17	1.1	3.6
Annual	70	16	36	23	0.64	100

Duration table of daily mean flow for period of record 1985-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
256	91	74	66	59	47	34	21	8.8	4.5	2.9	1.6	0.99	0.46	0.33	0.28	0.25



BOISE RIVER BASIN

13184500 MIDDLE FORK BOISE RIVER NEAR TWIN SPRINGS, ID

LOCATION.--Lat 43°42'49", long 115°37'50", in NW 1/4, SE 1/4, NW 1/4, sec.4, T.4 N., R.7 E., Elmore County, Hydrologic Unit 17050111, Boise National Forest, on left bank 1,000 ft upstream from confluence with North Fork Boise River, 1,000 ft upstream from Troutdale Guard Station, and 4.5 mi northeast of Twin Springs.

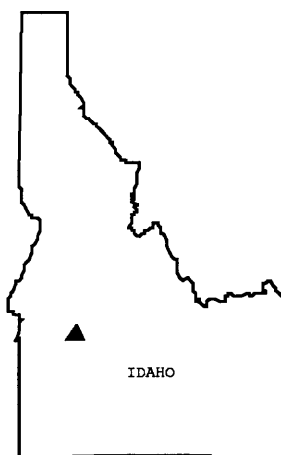
DRAINAGE AREA.--382 mi².

PERIOD OF RECORD.--October 1946 to September 1950, October 1976 to September 1980.

GAGE.--Water-stage recorder. Datum of gage is 3,480.60 ft above sea level, from topographic map.

REMARKS.--No regulation or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,370 ft³/s May 29, 1948, gage height, 7.40 ft; minimum, 60 ft³/s December 30, 1978, gage height, 1.68 ft, result of freezeout upstream.



LOCATION MAP

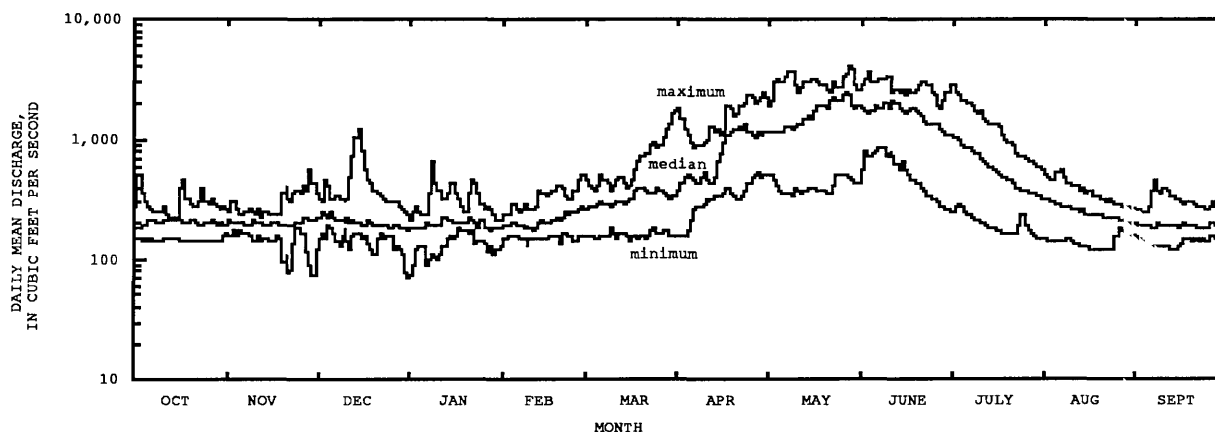
Summary of monthly and annual discharges, 1947-50, 1977-80

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	269	148	206	40	0.20	3.0
November	271	143	207	39	0.19	3.0
December	384	165	231	86	0.37	3.4
January	255	150	202	37	0.18	3.0
February	293	156	220	48	0.22	3.2
March	637	158	359	150	0.42	5.3
April	1,150	371	847	294	0.35	12.5
May	2,330	415	1,690	591	0.35	25.0
June	2,350	547	1,660	625	0.38	24.5
July	1,290	197	696	400	0.58	10.3
August	367	139	255	78	0.31	3.8
September	296	142	206	54	0.26	3.0
Annual	711	239	566	162	0.29	100

Duration table of daily mean flow for period of record 1947-50, 1977-80

Discharge, in ft³/s, which was exceeded for indicated percentage of time

1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
2,960	2,190	1,630	1,210	850	426	312	255	223	201	182	161	144	128	115	105	75



BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE, NEAR BOISE, ID

LOCATION.--Lat 43°39'37", long 116°16'41", in SW $\frac{1}{4}$, NE $\frac{1}{4}$, sec.25, T.4 N., R.1 E., Ada County, Hydrologic Unit 17050114, on bank 175 ft upstream from Glenwood Bridge, 7.4 mi northwest of Boise, and at mile 47.5.

DRAINAGE AREA.--2,800 mi², approximately.

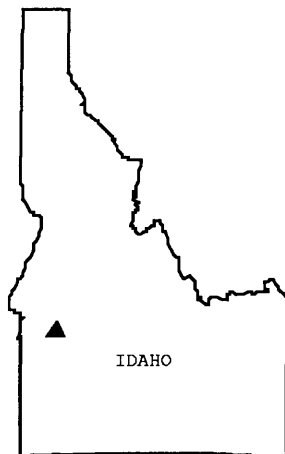
PERIOD OF RECORD.--April 1938 to September 1940 (published as "at Strawberry Glen Bridge near Boise"), March 1982 to September 1990.

GAGE.--Water-stage recorder. Datum of gage is 2,600 ft above sea level. April 1938 to September 1940, 0.30 mi downstream at different datum.

REMARKS.--Flow regulated by Anderson Ranch Reservoir, Arrowrock Reservoir, and Lucky Peak Lake. The New York, Ridenbaugh, and eight small canals divert between station near Boise and this station. Diversions above station for about 5,000 acres are outside the basin near Mountain Home.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 13,000 ft³/s May 2, 1938, gage height, minimum observed, 19 ft³/s December 3, 1939. Extremes since completion of Lucky Peak Dam; maximum discharge, 9,840 ft³/s June 13, 1983, gage height, 11.54 ft; minimum, 42 ft³/s October 26, 1983; minimum gage height, 4.51 ft, October 22, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 20, 1943, reached a discharge of about 21,000 ft³/s.



LOCATION MAP

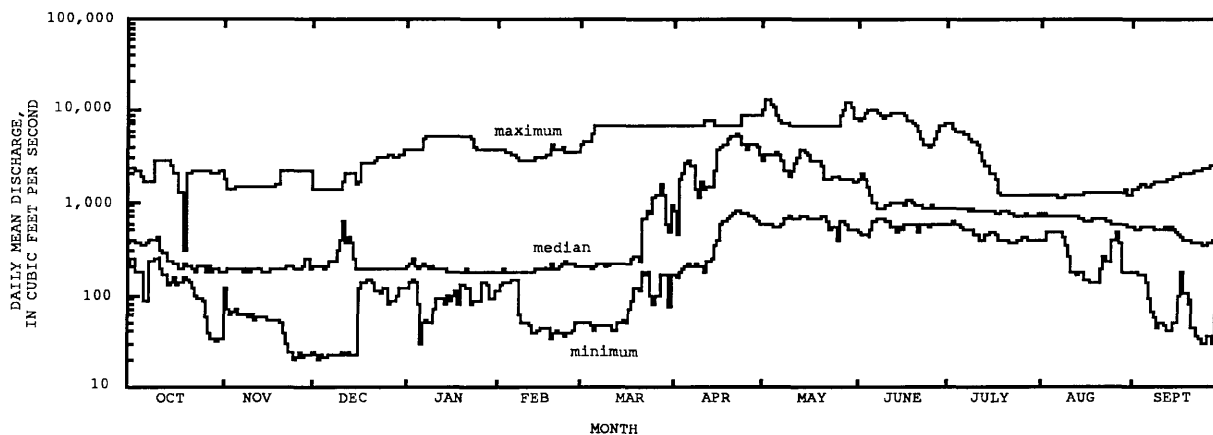
Summary of monthly and annual discharges, 1939-40, 1983-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	1,560	179	515	474	0.92	3.5
November	1,520	48	455	541	1.2	3.1
December	1,690	72	661	612	0.93	4.5
January	4,480	111	992	1,530	1.5	6.7
February	3,240	77	814	1,110	1.4	5.5
March	6,370	165	1,560	2,330	1.5	10.5
April	6,750	586	2,830	2,320	0.82	19.1
May	6,780	655	2,790	2,380	0.85	18.8
June	6,750	587	1,990	2,090	1.0	13.4
July	2,410	470	976	617	0.63	6.6
August	1,180	354	683	242	0.35	4.6
September	1,890	129	573	502	0.88	3.9
Annual	3,170	423	1,240	1,020	0.83	100

Duration table of daily mean flow for period of record 1939-40, 1983-90

Discharge, in ft³/s, which was exceeded for indicated percentage of time

1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
6,850	6,040	3,740	2,320	1,590	961	761	601	407	221	182	151	94	46	36	23	20



BOISE RIVER BASIN

13211309 INDIAN CREEK ABOVE WASTE WATER PLANT NEAR NAMPA, ID

LOCATION.--Lat 43°35'50", long 116°34'42", in NW 1/4, NE 1/4, SW 1/4, sec.16, T.3 N., R.2 W., Canyon County, Hydrologic Unit 17050114, on left bank at Nampa Waste Water Plant.

PERIOD OF RECORD.--October 1981 to September 1990.

GAGE.--Water-stage recorder. Elevation of gage is 2,450 ft above sea level, from topographic map. Prior to June 5, 1987, nonrecording gage, staff and crest-stage gage at same site and datum.

REMARKS.--Flow regulated by many diversions and returns above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 174 ft³/s April 12, 1986, gage height, 2.52 ft; maximum gage height, 3.16 ft, September 10, 1985; minimum daily, 16 ft³/s April 17, 18, 20, 21, 1987; minimum gage height observed, 0.42 ft, April 21, 22, 1987.



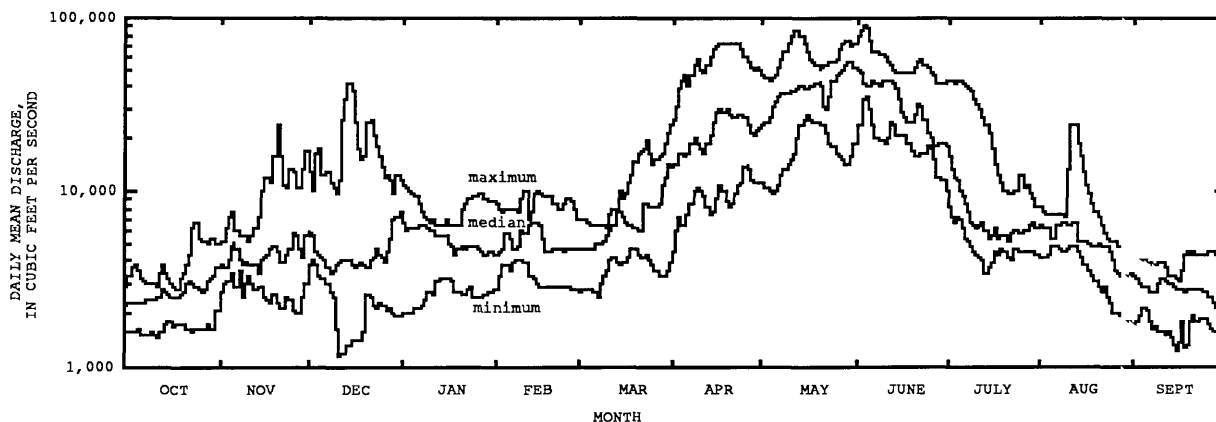
LOCATION MAP

Summary of monthly and annual discharges, 1983, 1985, 1987-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	75	33	50	15	0.30	9.9
November	45	32	39	4.7	0.12	7.6
December	37	29	34	3.1	0.09	6.7
January	33	25	30	2.9	0.10	5.9
February	33	23	27	3.6	0.13	5.4
March	33	23	27	3.4	0.13	5.3
April	62	25	43	13	0.31	8.5
May	68	41	52	11	0.22	10.2
June	69	38	53	11	0.20	10.5
July	72	35	49	15	0.30	9.7
August	72	32	48	14	0.29	9.4
September	75	34	56	17	0.30	10.9
Annual	55	37	42	7.4	0.17	100

Duration table of daily mean flow for period of record 1983, 1985, 1987-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
96	76	66	59	54	48	42	38	35	33	30	27	24	22	21	19	17



PAYETTE RIVER BASIN

13234500 CLEAR CREEK AT LOWMAN, ID

LOCATION.—Lat 44°05', long 115°37', in SW 1/4, SE 1/4, sec.27, T.9 N., R.7 E., Boise County, Hydrologic Unit 17050120, Boise National Forest, on left bank at highway bridge at Lowman, 550 ft upstream from mouth.

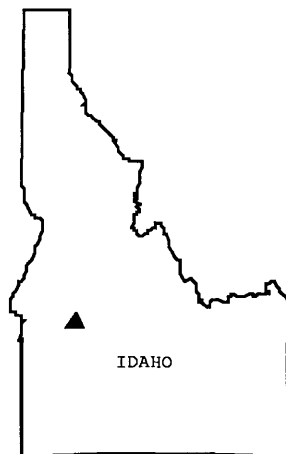
DRAINAGE AREA.—59.6 mi².

PERIOD OF RECORD.—June 1941 to January 1949.

GAGE.—Nonrecording gage. Elevation of gage is 3,820 ft above sea level, from river-profile map. Prior to Jan. 9, 1946, at site 350 ft downstream at different datum.

REMARKS.—Feeder canal for small powerplant diverts 1 mi above gage; water is returned to creek above station except that used for irrigation of small pasture adjacent to Lowman.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 754 ft³/s May 31, 1943; maximum gage height observed, 6.10 ft, Jan. 9, 10, 1942 (ice jam), site and datum then in use; minimum daily discharge, 16 ft³/s Dec. 10, 1944.



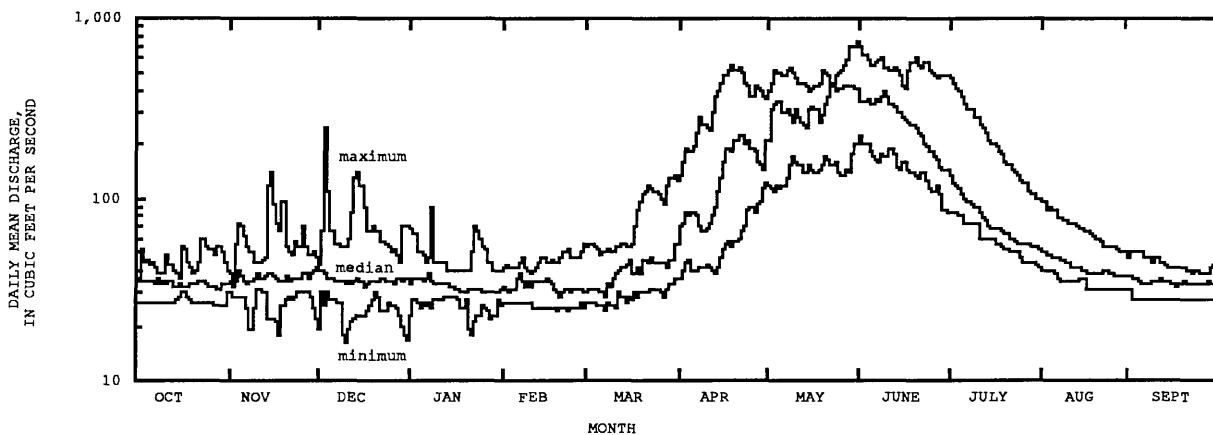
LOCATION MAP

Summary of monthly and annual discharges, 1942-48

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	40	27	35	5.0	0.14	2.9
November	53	30	40	7.9	0.20	3.3
December	62	27	41	14	0.34	3.4
January	45	28	35	6.0	0.17	3.0
February	43	26	34	6.7	0.19	2.9
March	70	30	47	16	0.34	4.0
April	344	74	166	96	0.58	13.9
May	433	168	318	104	0.33	26.7
June	499	149	302	108	0.36	25.3
July	225	63	96	57	0.60	8.0
August	67	36	44	11	0.24	3.7
September	42	28	35	4.7	0.14	2.9
Annual	154	61	100	29	0.29	100

Duration table of daily mean flow for period of record 1942-48

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
544	410	300	198	139	69	50	42	38	35	33	30	28	26	24	22	18



PAYETTE RIVER BASIN

13237600 CABIN CREEK NEAR SMITHS FERRY, ID

LOCATION.--Lat 44°20'53", long 115°47'21", in NW 1/4, sec.30, T.12 S., R.6 E., Valley County, Hydrologic Unit 17050123, on right bank 0.2 mi upstream from mouth, 1.2 mi downstream from Silver Creek Guard Station, and 13 mi east of Smiths Ferry.

DRAINAGE AREA.--0.42 mi². Mean elevation, 5,090 ft.

PERIOD OF RECORD.--September 1960 to September 1967.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,610 ft above sea level.

REMARKS.--No diversions or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s February 10, 1986, gage height, 9.50 ft, from slope-area measurement of peak flow; minimum daily, 3.1 ft³/s November 1, 1988.



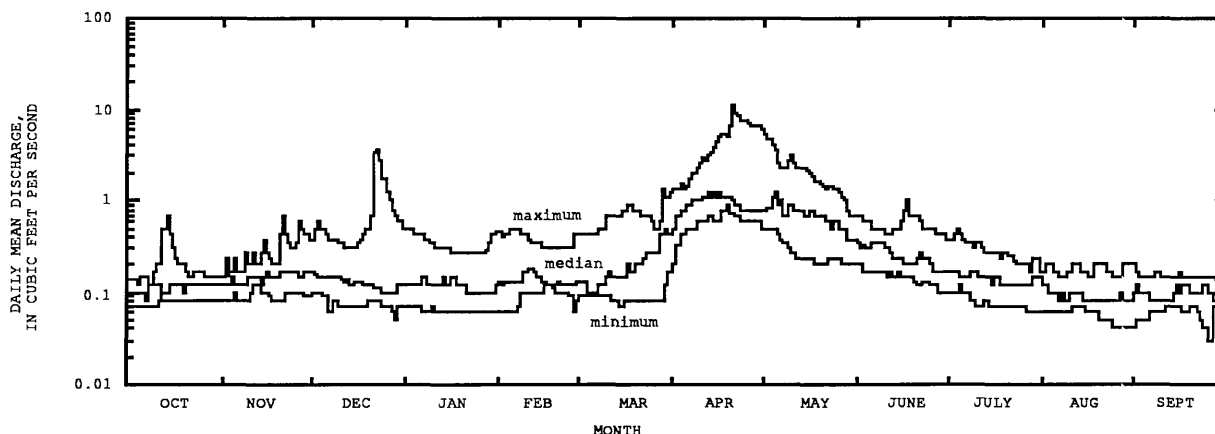
LOCATION MAP

Summary of monthly and annual discharges, 1961-67

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	0.18	0.09	0.12	0.03	0.28	2.8
November	0.26	0.10	0.16	0.06	0.36	3.7
December	0.66	0.08	0.22	0.22	0.97	5.2
January	0.34	0.07	0.15	0.09	0.62	3.4
February	0.34	0.10	0.18	0.10	0.55	4.3
March	0.63	0.10	0.27	0.18	0.68	6.3
April	4.6	0.79	1.6	1.4	0.90	36.6
May	1.9	0.28	0.93	0.61	0.65	21.8
June	0.49	0.15	0.30	0.14	0.48	7.0
July	0.27	0.08	0.17	0.08	0.44	4.0
August	0.17	0.06	0.10	0.04	0.42	2.4
September	0.15	0.06	0.10	0.03	0.32	2.3
Annual	0.82	0.19	0.36	0.21	0.60	100

Duration table of daily mean flow for period of record 1961-67

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
3.5	1.3	0.77	0.55	0.42	0.25	0.19	0.15	0.13	0.12	0.10	0.08	0.07	0.06	0.06	0.05	0.04



PAYETTE RIVER BASIN

13243500 GOLD FORK RIVER NEAR ROSEBERRY, ID

LOCATION.--Lat 44°41'18", long 116°00'02", in SE 1/4, SW 1/4, sec.29, T.16 N., R.4 E., Valley County, Hydrologic Unit 17050123, on left bank 350 ft upstream from county road bridge, 1 mi downstream from Gold Fork Dam, 4 mi southeast of Roseberry, and at mile 7.7.

DRAINAGE AREA.--143 mi².

PERIOD OF RECORD.--August 1920 to September 1921 (fragmentary, published as "Gold Fork Payette River near Roseberry"), October 1961 to September 1970.

GAGE.--Water-stage recorder. Datum of gage is 4,868.52 ft above sea level. August 25, 1920, to September 11, 1921, nonrecording gage at nearby site at different datum.

REMARKS.--Figures of daily discharge do not include discharge in the Gold Fork Canal, which diverts 1 mi above station. Records of daily discharge for Gold Fork Canal are on file in the office of the U.S. Geological Survey, Boise, Idaho.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s May 20, 1921, (gage height, 5.50 ft, site and datum then in use); minimum, 1.3 ft³/s September 6, 1966, August 30, 31, September 1, 1967.



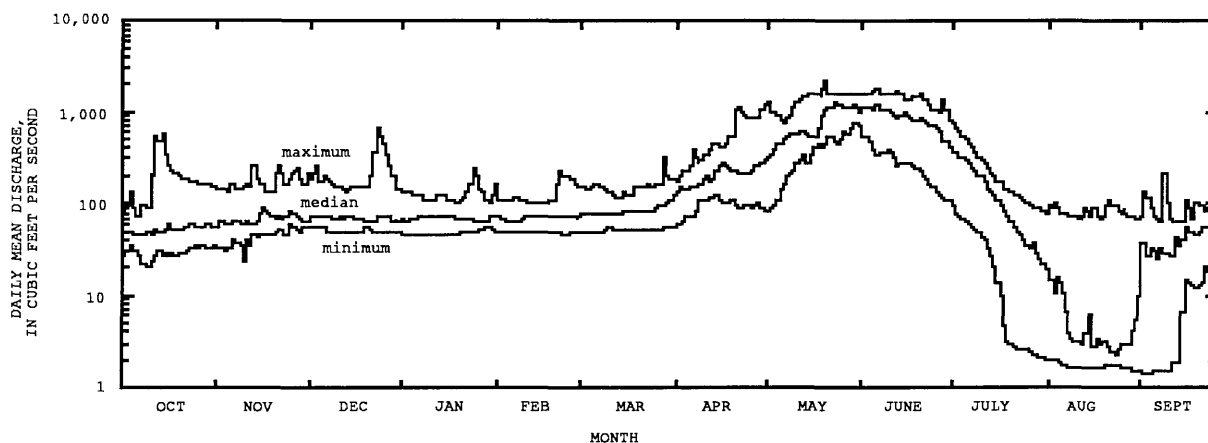
LOCATION MAP

Summary of monthly and annual discharges, 1962-70

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	181	29	66	45	0.68	2.6
November	169	53	81	37	0.46	3.2
December	160	52	87	41	0.48	3.5
January	109	48	77	24	0.31	3.1
February	115	50	78	24	0.30	3.1
March	137	55	88	28	0.32	3.5
April	484	94	247	137	0.55	9.9
May	1,210	524	763	229	0.30	30.5
June	1,150	272	833	314	0.38	33.2
July	227	27	129	80	0.62	5.1
August	62	1.8	17	20	1.2	0.7
September	65	12	40	21	0.52	1.6
Annual	295	129	209	50	0.24	100

Duration table of daily mean flow for period of record 1962-70

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
1,510	1,040	693	435	248	132	94	75	63	54	47	21	2.5	1.8	1.6	1.5	1.4



PAYETTE RIVER BASIN

13245500 NORTH FORK PAYETTE RIVER NEAR SMITHS FERRY, ID

LOCATION.--Lat 44°16', long 116°04', in SW 1/4, sec.23, T.11 N., R.3 E., Valley County, Hydrologic Unit 17050123, on left bank 450 ft downstream from Beaver Creek, 2.5 mi downstream from Tripod Creek, and 2.6 mi southeast of Smiths Ferry.

DRAINAGE AREA.--983 mi².

PERIOD OF RECORD.--June 1941 to September 1947.

GAGE.--Water-stage recorder. Datum of gage is 4,505.95 ft above sea level (levels by U.S. Bureau of Reclamation). May 31, 1941 to November 16, 1941, chain gage at site 30 ft upstream at datum 3.49 ft higher.

REMARKS.--Flow regulated by Payette Lake, Lake Fork Reservoir, and occasionally by mill dam at Cascade. Several diversions from tributaries for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s June 3, 1943, (gage height, 10.70 ft); minimum, 99 ft³/s September 19, 1944 (gage height, 2.05 ft), from rating curve extended below 150 ft³/s.

Summary of monthly and annual discharges, 1942-47

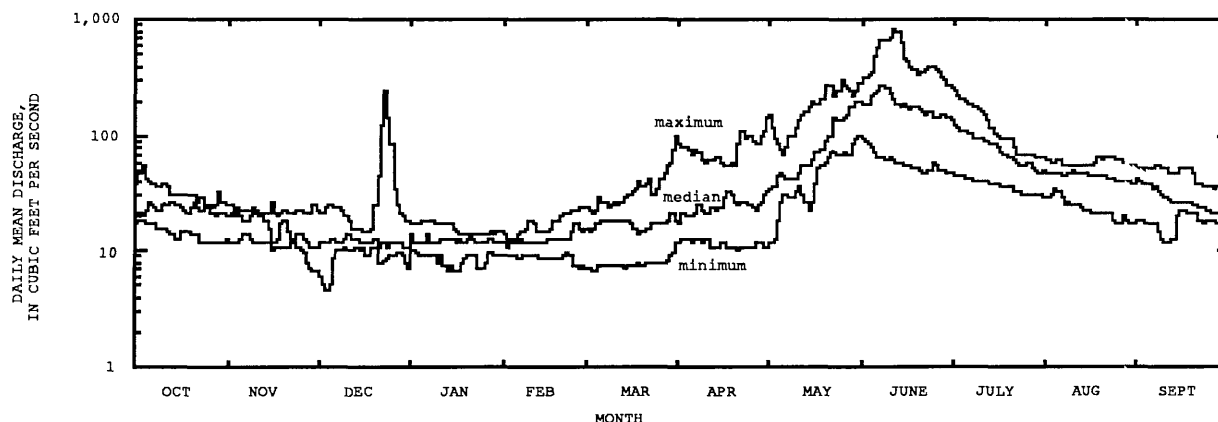
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	364	165	273	75	0.28	1.8
November	786	311	522	193	0.37	3.4
December	1,450	231	698	535	0.77	4.6
January	733	270	523	184	0.35	3.4
February	749	327	556	164	0.29	3.5
March	1,170	362	744	275	0.37	4.9
April	5,570	1,220	2,690	1,650	0.61	17.6
May	5,490	1,970	3,940	1,280	0.32	25.8
June	5,420	2,130	3,570	1,160	0.32	23.3
July	2,310	606	976	658	0.67	6.4
August	810	410	528	144	0.27	3.5
September	340	171	275	63	0.23	1.8
Annual	1,820	712	1,280	371	0.29	100



LOCATION MAP

Duration table of daily mean flow for period of record 1942-47

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
6,820	4,990	4,030	2,690	1,910	1,050	714	581	473	394	312	252	204	165	153	141	122



PAYETTE RIVER BASIN

13246500 PAYETTE RIVER AT BANKS, ID

LOCATION.--Lat 44°05', long 116°07', in SE 1/4 sec.29, T.9 N., R.3 E., Boise County, Hydrologic Unit 17050123, on right bank, 0.2 mi above Banks and 3.7 mi below confluence of North and South Forks of Payette River.

DRAINAGE AREA.--2,120 mi², approximately.

PERIOD OF RECORD.--June 1922 to September 1929.

GAGE.--Staff gage. Altitude of gage is 2,780 ft above sea level, by barometer.

REMARKS.--Many diversions for irrigation above station. Some regulation by Payette Lake and Lake Fork Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft³/s May 26, 1928 (gage height, 13.7 ft); minimum observed, 455 ft³/s December 18, 1924.



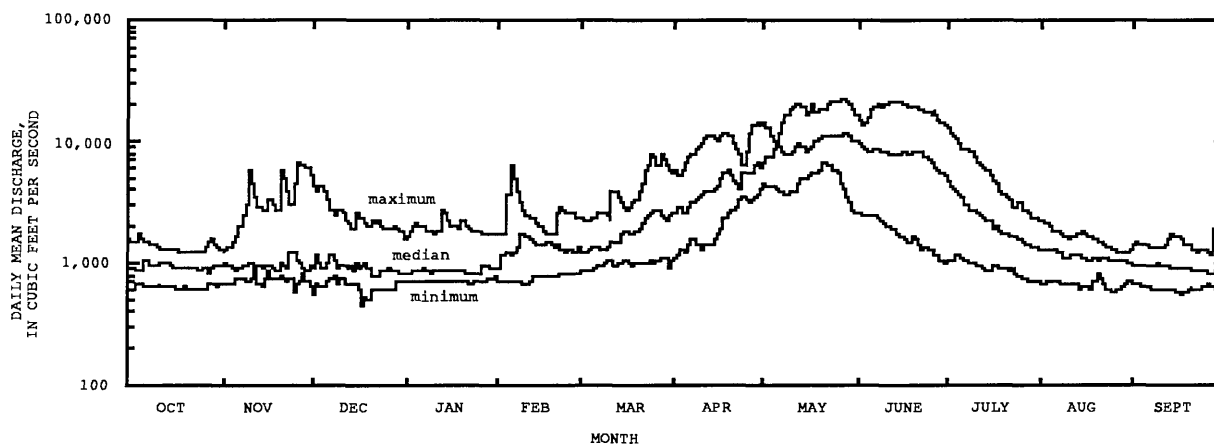
LOCATION MAP

Summary of monthly and annual discharges, 1923-29

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	1,380	687	950	235	0.25	2.7
November	3,560	823	1,420	972	0.69	4.0
December	2,490	744	1,280	716	0.56	3.6
January	1,990	741	1,070	454	0.42	3.0
February	2,340	801	1,440	570	0.40	4.1
March	3,860	1,140	2,100	1,000	0.48	5.9
April	8,060	2,720	4,860	1,880	0.39	13.7
May	17,400	5,890	9,920	4,330	0.44	28.0
June	17,100	1,820	7,660	5,210	0.68	21.7
July	5,770	971	2,660	1,770	0.67	7.5
August	1,640	673	1,110	330	0.30	3.1
September	1,470	626	923	281	0.30	2.6
Annual	4,510	1,580	2,950	1,150	0.39	100

Duration table of daily mean flow for period of record 1923-29

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
19,100	11,200	8,010	5,780	4,290	2,510	1,670	1,310	1,090	954	847	735	674	624	599	587	519



PAYETTE RIVER BASIN

13247000 PORTER CREEK NEAR GARDENA, ID

LOCATION.--Lat 43°57', long 116°11', in NE 1/4, sec.14, T.7 N., R.2 E., Boise County, Hydrologic Unit 17050122, on left bank at Rood ranchhouse, 0.6 mi upstream from mouth and 2 mi south of Gardena.

DRAINAGE AREA.--21.2 mi².

PERIOD OF RECORD.--December 1939 to September 1945.

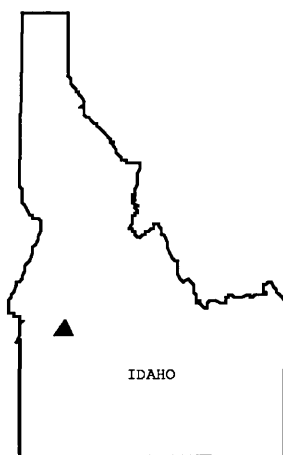
GAGE.--Staff gage. Altitude of gage is 2,740 ft above sea level, by barometer.

REMARKS.--Several diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s August 11, 1941 (gage height, 3.58 ft, from floodmark), from rating curve extended above 60 ft³/s; no flow at times.

Summary of monthly and annual discharges, 1940-45

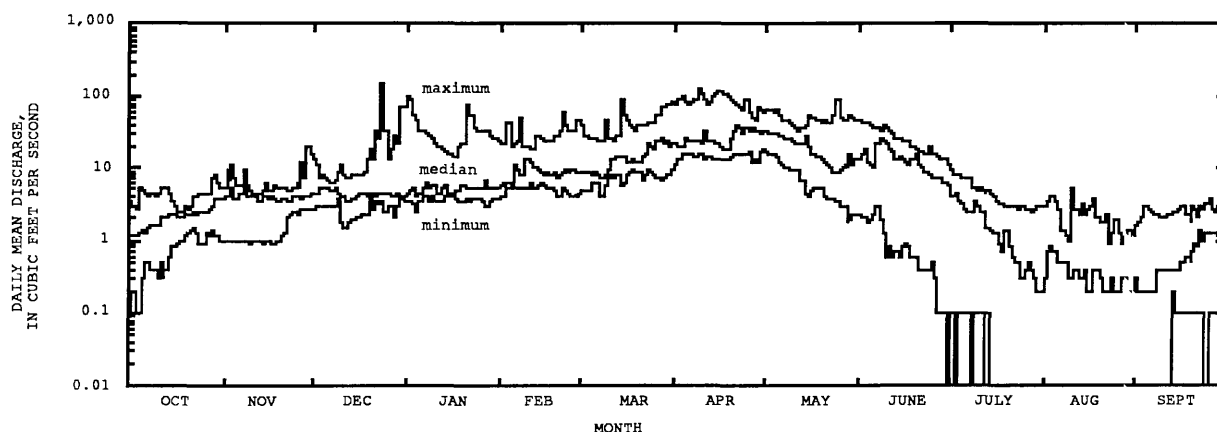
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	3.7	0.76	2.3	0.94	0.41	1.6
November	6.0	1.4	4.1	1.6	0.38	2.9
December	20	3.1	7.1	6.6	0.93	5.0
January	34	3.8	11	12	1.1	7.5
February	26	5.5	14	6.9	0.50	9.7
March	39	7.5	19	13	0.67	13.3
April	84	19	38	25	0.66	26.6
May	41	16	28	13	0.45	19.8
June	24	1.4	15	9.0	0.59	10.8
July	4.4	0.05	2.2	1.8	0.80	1.6
August	1.4	0.02	0.72	0.51	0.71	0.5
September	2.5	0.43	1.0	0.73	0.72	0.7
Annual	23	6.8	12	5.9	0.50	100



LOCATION MAP

Duration table of daily mean flow for period of record 1940-45

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
84	45	32	26	20	12	7.5	4.9	3.8	2.7	1.2	0.42	0.19	0.07	0.04	0.02	0.00



WEISER RIVER BASIN

13259500 RUSH CREEK AT CAMBRIDGE, ID

LOCATION.--Lat 44°35', long 116°40', in SW $\frac{1}{4}$ sec.2, T.14 N., R.3 E., Washington County, Hydrologic Unit 17050124, on left bank in Cambridge, 150 ft upstream from Superior Street, and 3.7 mi upstream from mouth.

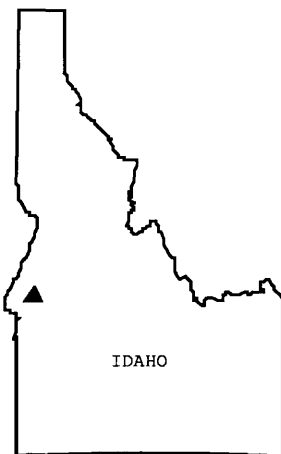
DRAINAGE AREA.--32 mi², approximately.

PERIOD OF RECORD.--May 1938 to September 1943.

GAGE.--Staff gage. Altitude of gage is 2,630 ft above sea level, by barometer.

REMARKS.--Several diversions for irrigation above station. Flow regulated by powerplant 8 mi above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 582 ft³/s March 16, 1938 (gage height, 6.07 ft), from rating table extended above 5.0 ft; no flow at times during 1938-40, 1942.



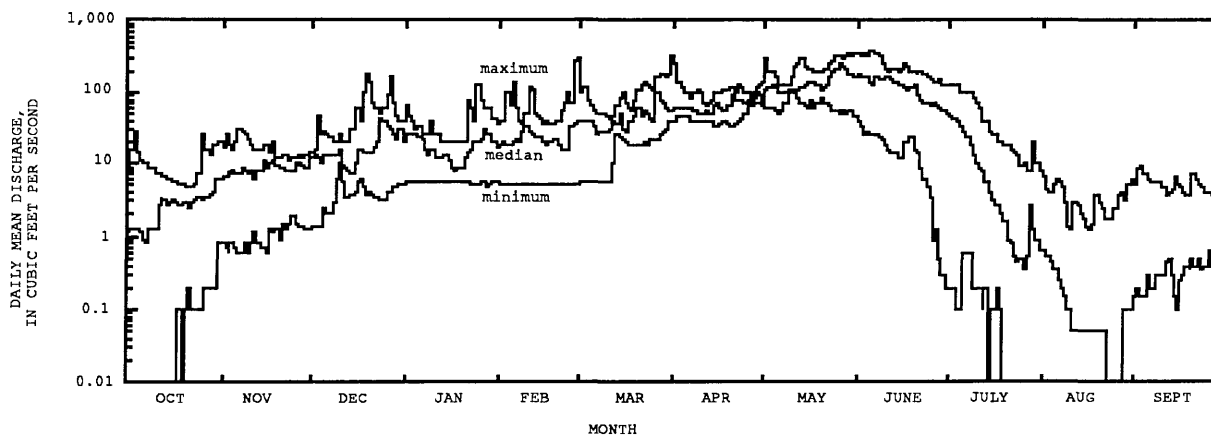
LOCATION MAP

Summary of monthly and annual discharges, 1939-43

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	11	0.08	3.9	4.1	1.0	0.9
November	16	1.0	8.8	5.5	0.62	1.9
December	44	4.3	21	17	0.78	4.6
January	27	5.5	19	10	0.53	4.1
February	55	5.0	31	20	0.63	6.7
March	69	37	51	13	0.26	11.1
April	91	54	71	15	0.21	15.3
May	183	95	142	36	0.26	30.7
June	165	16	98	59	0.60	21.1
July	47	0.18	14	19	1.3	3.1
August	3.3	0.00	0.78	1.4	1.8	0.2
September	5.1	0.00	1.8	2.3	1.3	0.4
Annual	49	21	39	11	0.28	100

Duration table of daily mean flow for period of record 1939-43

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
253	162	120	90	69	41	23	14	6.9	4.7	0.96	0.12	0.06	0.02	0.01	0.01	0.00



SALMON RIVER BASIN

13297597 HERD CREEK BELOW TRAIL GULCH, NEAR CLAYTON, ID

LOCATION.—Lat 44°08'56", long 114°17'22", in SW 1/4, SW 1/4, SW 1/4, sec.36, T.10 N., R.18 E., Custer County, Hydrologic Unit 17060201, on left bank 0.8 mi from mouth, and 9 mi southeast of Clayton.

DRAINAGE AREA.—110 mi², approximately.

PERIOD OF RECORD.—October 1979 to September 1984.

GAGE.—Water-stage recorder. Elevation of gage is 5,790 ft above sea level, from topographic map.

REMARKS.—Small diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 437 ft³/s May 29, 1983, gage height, 4.20 ft; maximum gage height, 4.83 ft, May 29, 1983 (log jam); minimum, 8.5 ft³/s Feb. 9, Mar. 16, 1980, Apr. 8, 1981; minimum gage height, 2.05 ft, Apr. 6, 1983.

Summary of monthly and annual discharges, 1980-84

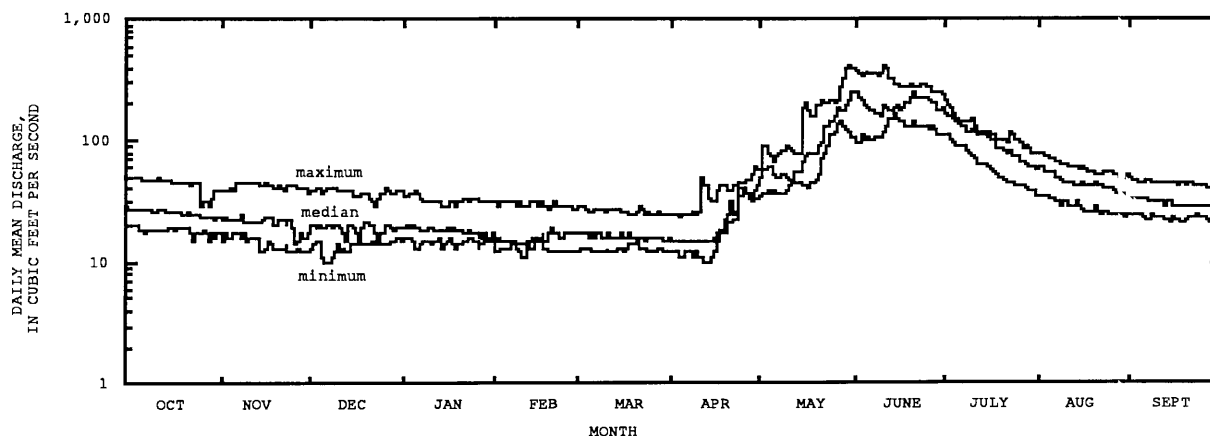
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	32	18	24	5.9	0.24	3.8
November	42	15	23	11	0.46	3.7
December	37	14	21	9.5	0.45	3.3
January	32	15	20	6.9	0.34	3.2
February	29	14	18	6.3	0.34	2.9
March	26	13	18	5.2	0.30	2.8
April	31	20	26	4.7	0.18	4.1
May	133	85	106	18	0.17	16.7
June	289	166	206	48	0.23	32.4
July	115	64	97	22	0.22	15.4
August	60	28	44	12	0.28	6.9
September	44	24	31	8.2	0.26	4.9
Annual	65	41	53	9.9	0.19	100



LOCATION MAP

Duration table of daily mean flow for period of record 1980-84

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
301	199	143	100	67	44	35	28	23	19	17	15	13	12	11	11	10



SALMON RIVER BASIN

13299200 CHALLIS CREEK BELOW JEFFS CREEK, NEAR CHALLIS, ID

LOCATION.—Lat 44°33'43", long 114°16'40", in NW 1/4, NE 1/4, sec.12, T.14 N., R.18 E., Custer County, Hydrologic Unit 17060201, 0.2 mi upstream from Mill Creek, 1.5 mi downstream from Jeffs Creek, 4.5 mi northwest of Challis, and at mile 4.9.

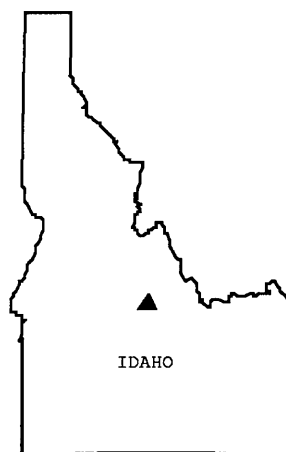
DRAINAGE AREA.—91.2 mi².

PERIOD OF RECORD.—August 1963 to November 1970.

GAGE.—Water-stage recorder. Elevation of gage is 5,210 ft above sea level, from topographic map.

REMARKS.—Flow is partly regulated by Mesquite Flat Reservoir (capacity, 1,050 acre-ft).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 918 ft³/s June 12, 1965, gage height, 5.55 ft; minimum, 0.88 ft³/s Dec. 6, 1966, gage height, 2.46 ft; minimum gage height, 1.92 ft, Mar. 16, 1964.



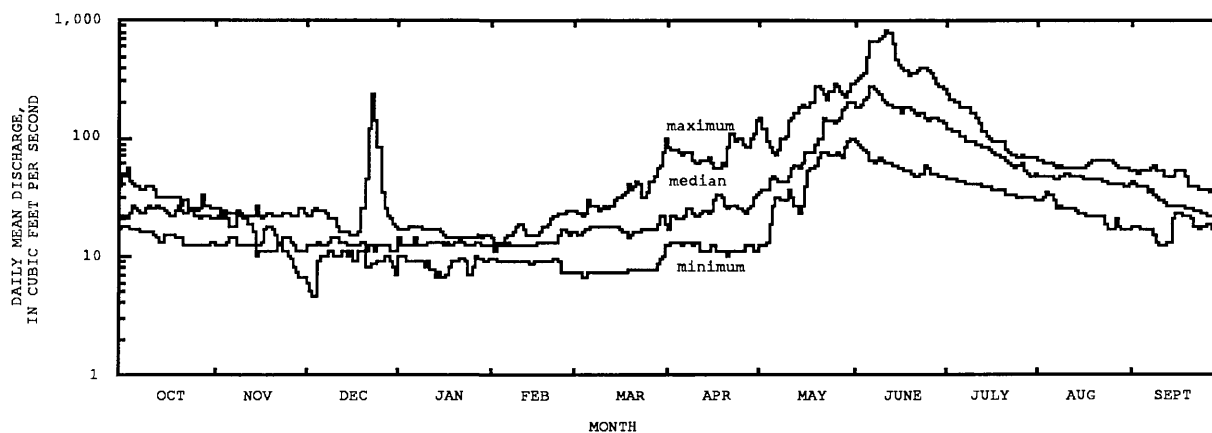
LOCATION MAP

Summary of monthly and annual discharges, 1964-70

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	32	15	23	6.9	0.30	3.9
November	22	11	17	3.8	0.23	2.8
December	34	10	16	8.3	0.52	2.7
January	15	9.1	12	2.2	0.18	2.1
February	17	8.7	13	3.0	0.23	2.2
March	36	7.8	19	9.4	0.50	3.2
April	69	12	33	23	0.68	5.6
May	172	61	99	38	0.38	16.7
June	460	60	210	127	0.60	35.4
July	124	38	78	29	0.37	13.1
August	53	23	44	10	0.23	7.5
September	46	18	29	8.6	0.29	5.0
Annual	82	31	50	16	0.32	100

Duration table of daily mean flow for period of record 1964-70

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
342	191	123	79	61	44	32	24	19	16	13	11	9.5	8.1	7.4	6.9	5.0



SALMON RIVER BASIN

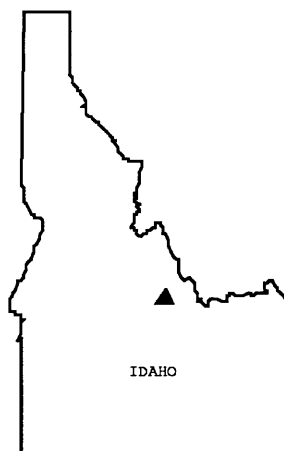
13302005 PAHSIMEROI RIVER AT ELLIS, ID

LOCATION.—Lat 44°41'31", long 114°02'51", in NW 1/4, SW 1/4, NW 1/4, sec.25, T.16 N., R.20 E., on Custer-Lemhi County line, Hydrologic Unit 17060202, on right bank about 500 ft upstream from mouth, at Ellis.

PERIOD OF RECORD.—October 1984 to September 1990.

GAGE.—Water-stage recorder. Datum of gage is 4,634.96 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 710 ft³/s June 4, 1986; maximum gage height, 7.37 ft, June 2, 1986 (backwater from Salmon River); minimum, 89 ft³/s July 6, 7, 8, gage height, 1.18 ft.



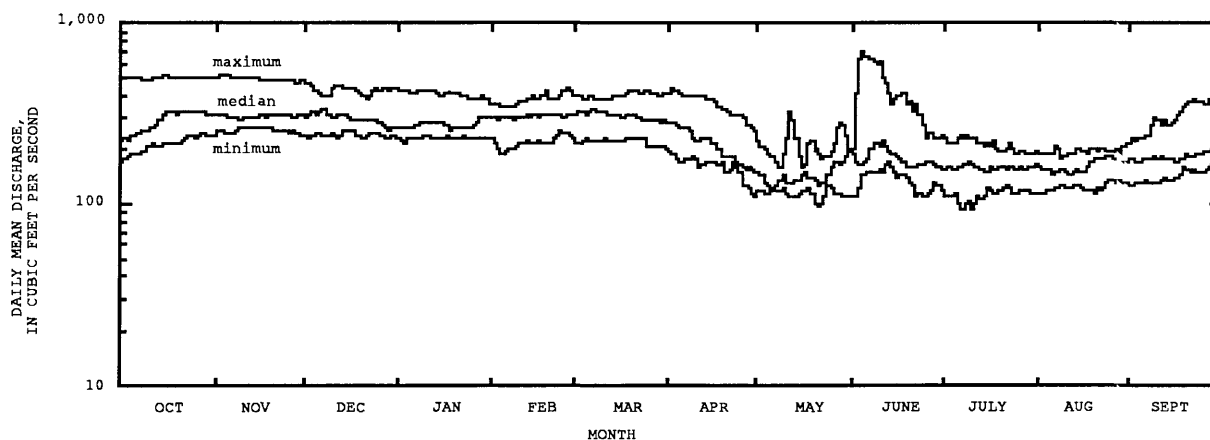
LOCATION MAP

Summary of monthly and annual discharges, 1985-90

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	501	223	319	103	0.32	10.6
November	496	260	339	84	0.25	11.3
December	427	243	316	66	0.21	10.6
January	406	235	293	64	0.22	9.8
February	374	227	301	60	0.20	10.1
March	401	221	307	61	0.20	10.3
April	355	174	230	67	0.29	7.7
May	178	130	151	17	0.12	5.0
June	417	162	212	101	0.47	7.1
July	211	111	159	37	0.23	5.3
August	191	127	160	29	0.18	5.3
September	307	148	207	68	0.33	6.9
Annual	329	196	249	54	0.22	100

Duration table of daily mean flow for period of record 1985-90

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
519	420	373	345	329	304	265	239	208	182	160	135	121	114	111	107	97



SALMON RIVER BASIN

13303000 TEXAS CREEK NEAR LEADORE, ID

LOCATION.—Lat 44°35'10", long 113°19'45", in NW¼, SW ¼, sec.35, T.15 N., R.26 E., Lemhi County, Hydrologic Unit 17060204, on right bank 50 ft downstream from Nez Perce Creek, 0.5 mi upstream from county road bridge, and 6.5 mi south of Leadore.

DRAINAGE AREA.—71.4 mi² (revised).

PERIOD OF RECORD.—June 1955 to September 1960. November 1938 to July 1939 at site 0.5 mi downstream, not equivalent due to diversions.

GAGE.—Water-stage recorder. Elevation of gage is 6,280 ft above sea level, by barometer.

REMARKS.—Diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 116 ft³/s Mar. 25, 1956, gage height, 3.94 ft, from rating curve extended above 50 ft³/s by logarithmic plotting; maximum gage height recorded, 4.47 ft, Jan. 1, 1961; minimum, 4.3 ft³/s Aug. 31, 1955, gage height, 2.72 ft.



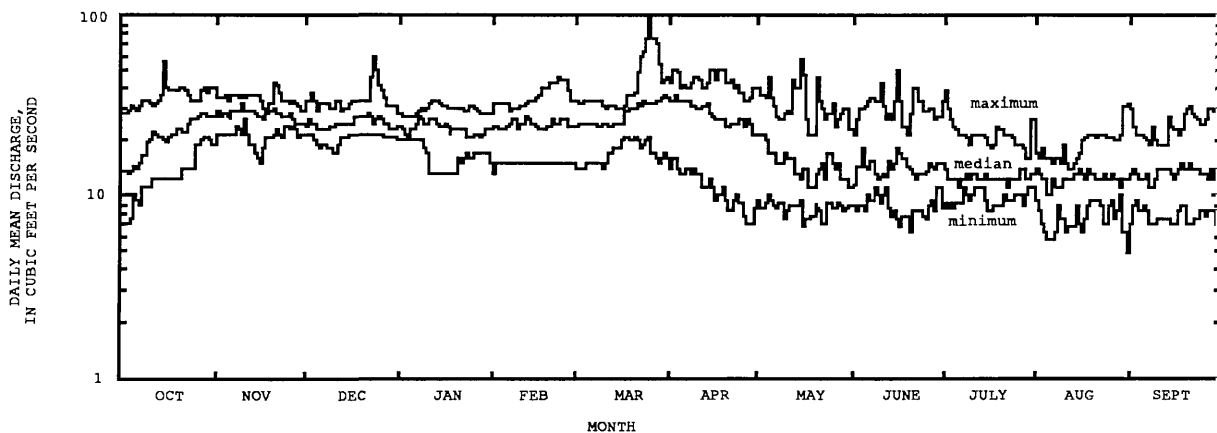
LOCATION MAP

Summary of monthly and annual discharges, 1956-63

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	35	15	22	7.4	0.33	8.6
November	33	25	28	2.9	0.10	10.7
December	31	21	26	2.9	0.11	10.1
January	29	17	23	3.9	0.17	9.0
February	35	21	26	4.2	0.16	9.9
March	36	20	29	5.8	0.20	11.1
April	39	11	29	8.5	0.30	11.1
May	31	9.7	17	6.5	0.38	6.5
June	31	9.9	18	7.1	0.40	6.8
July	21	11	14	3.4	0.25	5.2
August	18	11	13	2.3	0.18	5.0
September	23	9.2	16	4.9	0.32	6.0
Annual	27	17	22	3.5	0.16	100

Duration table of daily mean flow for period of record 1956-63

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
47	36	33	31	29	27	25	23	20	16	13	11	9.5	8.2	7.6	7.1	6.4



SALMON RIVER BASIN

13309220 MIDDLE FORK SALMON RIVER AT MIDDLE FORK LODGE, NEAR YELLOW PINE, ID

LOCATION.—Lat 44°43'11", long 115°00'48", NW 1/4, SW 1/4, SW 1/4, in sec.16, T.16 N., R.12 E., Valley County, Hydrologic Unit 17060205, Boise National Forest, on left bank at Middle Fork Lodge, 325 ft downstream from Middle Fork Lodge bridge, 0.4 mi upstream from Thomas Creek, 1.8 mi downstream from Marble Creek, 29 mi southeast of Yellow Pine, and at mile 61.0.

DRAINAGE AREA.—1,040 mi², approximately.

PERIOD OF RECORD.—April 1973 to September 1981.

REVISED RECORDS.—WDR ID-81-2: Drainage area.

GAGE.—Water-stage recorder. Elevation of gage is 4,380 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 20,900 ft³/s June 16, 1974, gage height, 5.95 ft; minimum, 190 ft³/s Nov. 21, 1979, gage height, 1.32 ft.



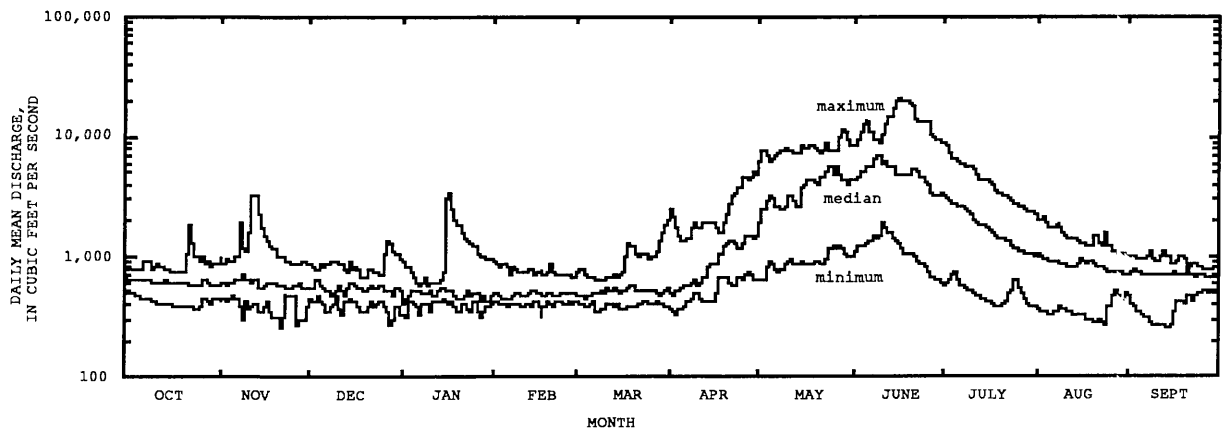
LOCATION MAP

Summary of monthly and annual discharges, 1974-81

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	835	427	616	131	0.21	3.4
November	1,150	408	647	231	0.36	3.6
December	717	420	566	122	0.22	3.1
January	1,080	422	556	220	0.39	3.1
February	719	411	505	103	0.20	2.8
March	855	407	570	169	0.30	3.1
April	1,920	584	1,320	571	0.43	7.3
May	6,400	957	4,120	1,870	0.45	22.7
June	13,100	1,130	5,550	3,670	0.66	30.5
July	4,460	493	2,170	1,350	0.62	11.9
August	1,440	354	884	350	0.40	4.9
September	859	396	669	175	0.26	3.7
Annual	2,700	581	1,520	627	0.41	100

Duration table of daily mean flow for period of record 1974-81

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
9,480	6,060	4,310	2,870	1,730	1,030	796	671	587	523	469	419	383	347	320	288	257



SALMON RIVER BASIN

13309500 MIDDLE FORK SALMON RIVER NEAR MEYERS COVE, ID

LOCATION.—Lat 44°57', long 114°44', in sec.27, T.19 N., R.14 E., Valley County, Hydrologic Unit 17060206, on left bank at the George D. Crandall Ranch, 500 ft downstream from Brush Creek, and 15 mi northwest of Meyers Cove.

DRAINAGE AREA.—2,020 mi², approximately.

PERIOD OF RECORD.—July 1931 to October 1939.

GAGE.—Staff gage. Elevation of gage is 3,640 ft above sea level, from river-profile survey.

REMARKS.—A few small ranch diversions from tributaries upstream. No regulation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 17,000 ft³/s June 10, 1933, gage height, 8.10 ft; minimum not determined.



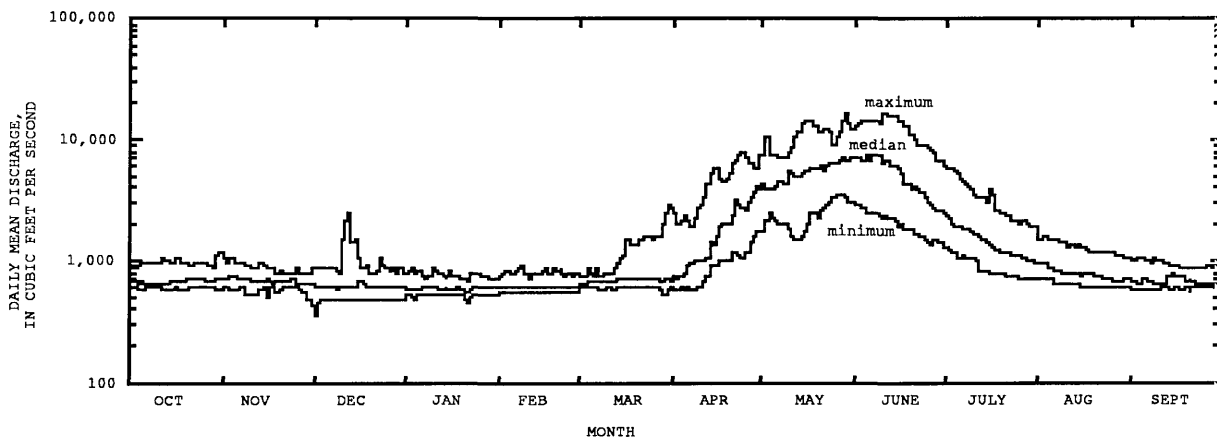
LOCATION MAP

Summary of monthly and annual discharges, 1932-39

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	947	589	715	118	0.16	3.3
November	858	599	700	100	0.14	3.2
December	818	475	658	121	0.18	3.0
January	729	520	609	82	0.14	2.8
February	799	550	622	80	0.13	2.8
March	1,330	594	789	244	0.31	3.6
April	4,410	988	2,280	1,140	0.50	10.4
May	8,780	3,460	6,080	1,930	0.32	27.8
June	11,200	2,090	5,990	3,370	0.56	27.4
July	3,360	959	1,780	805	0.45	8.2
August	1,300	658	883	219	0.25	4.0
September	930	622	729	111	0.15	3.3
Annual	2,460	1,300	1,820	391	0.21	100

Duration table of daily mean flow for period of record 1932-39

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
12,800	7,300	4,950	3,370	2,230	1,210	866	762	701	639	603	570	537	498	476	457	441



SALMON RIVER BASIN

13312500 JOHNSON CREEK NEAR LANDMARK RANGER STATION, ID

LOCATION.—Lat 44°41', long 115°32', in sec.31, T.16 N., R.8 E., Valley County, Hydrologic Unit 17060208, on left bank 0.5 mi downstream from Bobcat Creek, 0.8 mi upstream from Lunch Creek, 1.5 mi north of Landmark Ranger Station, and 20 mi south of Yellow Pine.

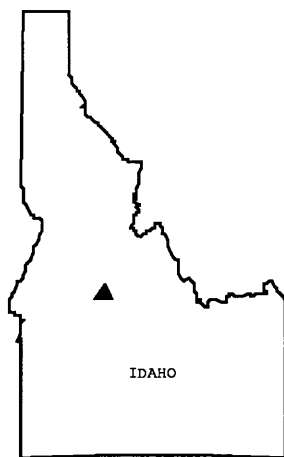
DRAINAGE AREA.—54.7 mi².

PERIOD OF RECORD.—October 1942 to September 1949.

GAGE.—Water-stage recorder. Elevation of gage is 6,585 ft above sea level, from river-profile map.

REMARKS.—Small diversion from Johnson Creek basin to Deadwood River basin after late fall of 1936 (about 5,000 acre-ft annually).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,510 ft³/s May 27, 1948, gage height, 5.95 ft; minimum observed, 7.8 ft³/s Feb. 6, 1943 (discharge measurement); minimum gage height recorded, 1.79 ft, Nov. 25, 1943, Nov. 16, 1944.



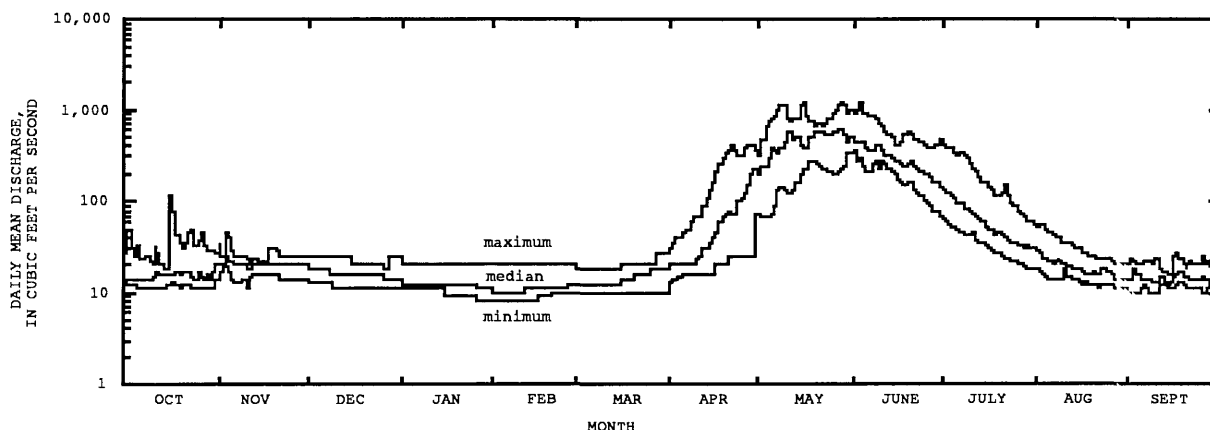
LOCATION MAP

Summary of monthly and annual discharges, 1943-49

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Standard deviation (ft ³ /s)	Coefficient of variation	Percentage of annual runoff
October	27	12	18	5.8	0.32	1.7
November	24	16	20	2.9	0.15	1.8
December	22	12	16	3.2	0.20	1.5
January	20	9.8	13	4.0	0.30	1.2
February	20	9.0	13	4.2	0.33	1.2
March	19	10	15	3.1	0.21	1.4
April	180	21	78	59	0.76	7.1
May	642	272	473	130	0.28	43.3
June	518	204	332	120	0.36	30.5
July	191	34	77	52	0.68	7.0
August	32	13	20	5.9	0.29	1.9
September	18	12	15	2.1	0.14	1.4
Annual	121	56	91	22	0.24	100

Duration table of daily mean flow for period of record 1943-49

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
881	485	323	207	95	30	22	20	17	15	13	12	11	9.3	8.6	8.3	8.1



SALMON RIVER BASIN

13313500 SECESH RIVER NEAR BURG DORF, ID

LOCATION.—Lat 45°14', long 115°49', in SW¹/₄ sec.23, T.22 N., R.5 E., Idaho County, Hydrologic Unit 17060208, on left bank 760 ft upstream from Long Gulch Creek and 5.75 mi southeast of Burgdorf.

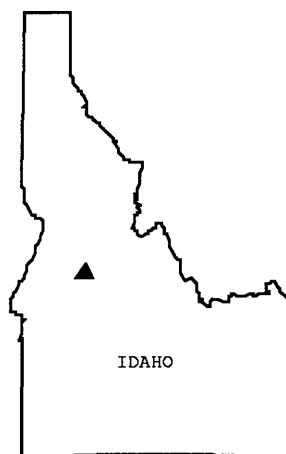
DRAINAGE AREA.—104 mi².

PERIOD OF RECORD.—April 1943 to May 1952.

GAGE.—Water-stage recorder. Elevation of gage is 5,690 ft above sea level, from river-profile map. Prior to Aug. 20, 1943, staff gage, and Aug. 20, 1943 to Sept. 30, 1948, water-stage recorder, at site 1 mi upstream at different datum.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,500 ft³/s June 3, 1948, gage height, 8.24 ft, site and datum then in use, by slope-area measurement of peak flow; minimum recorded, 23 ft³/s Oct. 31, 1951, gage height, 1.72 ft.



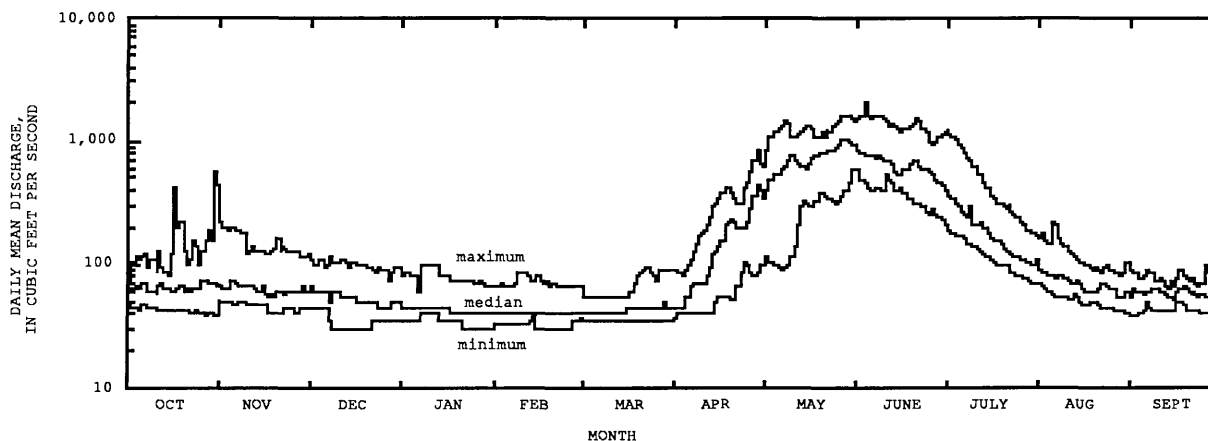
LOCATION MAP

Summary of monthly and annual discharges, 1944-51

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	135	45	74	30	0.40	3.3
November	145	55	73	30	0.41	3.3
December	99	35	58	18	0.32	2.6
January	75	35	49	16	0.32	2.2
February	69	33	45	14	0.32	2.0
March	58	35	47	9.2	0.20	2.1
April	256	69	155	77	0.50	6.9
May	951	426	698	205	0.29	31.0
June	1,210	403	695	302	0.43	30.9
July	493	119	220	122	0.56	9.8
August	115	51	75	23	0.30	3.3
September	67	48	59	7.3	0.12	2.6
Annual	246	120	188	40	0.21	100

Duration table of daily mean flow for period of record 1944-51

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
1,300	851	591	389	238	109	79	67	59	52	45	38	36	34	32	31	30



SALMON RIVER BASIN

13314500 WARREN CREEK NEAR WARREN, ID

LOCATION.—Lat 45°17', long 115°49', in sec.3, T.22 N., R.6 E., Idaho County, Hydrologic Unit 17060207, on right bank 100 ft downstream from bridge on Warren-McCall Road, 0.1 mi downstream from Steamboat Creek, and 1.3 mi northwest of Warren.

DRAINAGE AREA.—37 mi², approximately.

PERIOD OF RECORD.—April 1943 to November 1949.

GAGE.—Water-stage recorder. Elevation of gage is 5,830 ft above sea level, by barometer.

REMARKS.—No diversions or regulation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,100 ft³/s June 3, 1948, gage height, 5.3 ft, site then in use (from floodmarks), from rating curve extended above 400 ft³/s on basis of slope-area determination of peak flow; minimum, 4.2 ft³/s Dec. 27, 1943, Dec. 3, 1949.

Summary of monthly and annual discharges, 1944-49

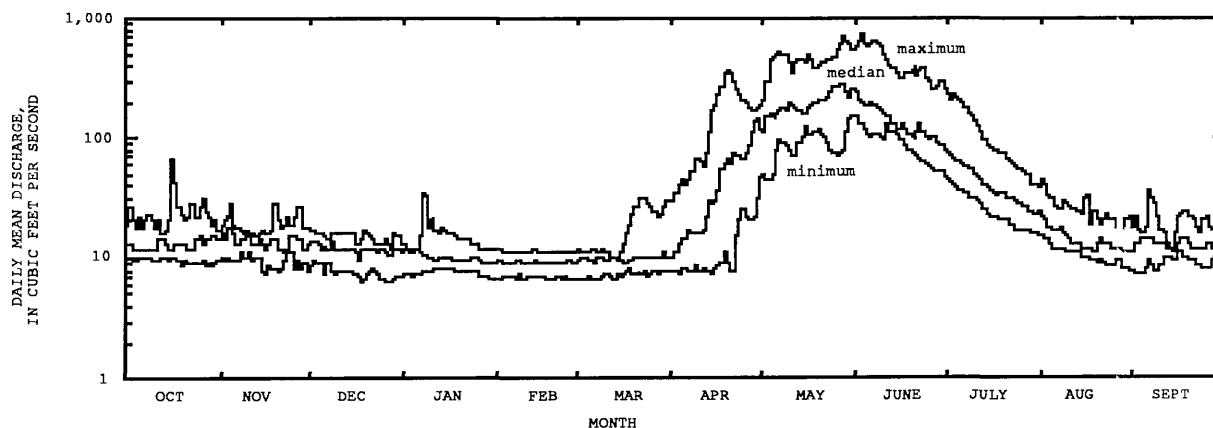
Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	19	9.8	15	3.7	0.26	2.5
November	17	11	14	2.1	0.15	2.5
December	15	7.8	11	2.4	0.21	2.0
January	16	7.9	11	2.9	0.27	1.8
February	11	7.0	9.2	1.6	0.17	1.6
March	18	7.5	11	3.9	0.36	1.9
April	67	16	42	22	0.52	7.2
May	325	99	226	91	0.40	39.2
June	357	108	170	98	0.58	29.4
July	62	26	40	14	0.34	6.9
August	24	11	15	4.8	0.32	2.6
September	18	9.9	13	2.6	0.20	2.3
Annual	71	30	48	14	0.29	100



LOCATION MAP

Duration table of daily mean flow for period of record 1944-49

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
481	224	143	90	56	23	17	14	12	11	9.8	8.3	7.7	7.1	6.8	6.6	6.4



SALMON RIVER BASIN

13317500 DEER CREEK NEAR WINCHESTER, ID

LOCATION.—Lat 46°07', long 116°45', in SE 1/4 sec.18, T.32 N., R.3 W., Nez Perce County, Hydrologic Unit 17060209, on right bank 300 ft downstream from proposed damsite, 0.12 mi downstream from West Fork, 4.5 mi upstream from East Fork, and 11 mi southwest of Winchester.

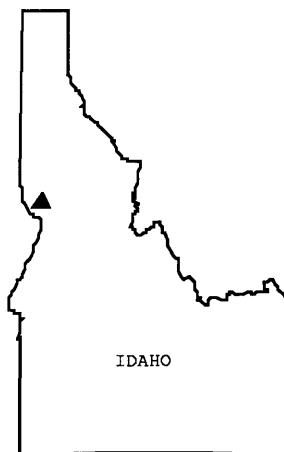
DRAINAGE AREA.—19.1 mi².

PERIOD OF RECORD.—October 1951 to November 1956.

GAGE.—Water-stage recorder. Elevation of gage is 4,380 ft above sea level, by barometer.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 209 ft³/s Apr. 16, 1956, gage height, 3.75 ft; maximum gage height recorded, 5.03 ft, Apr. 9, 1955, backwater from ice; minimum recorded, 0.2 ft³/s Sept. 23, Oct. 4, 1952, gage height, 1.62 ft.



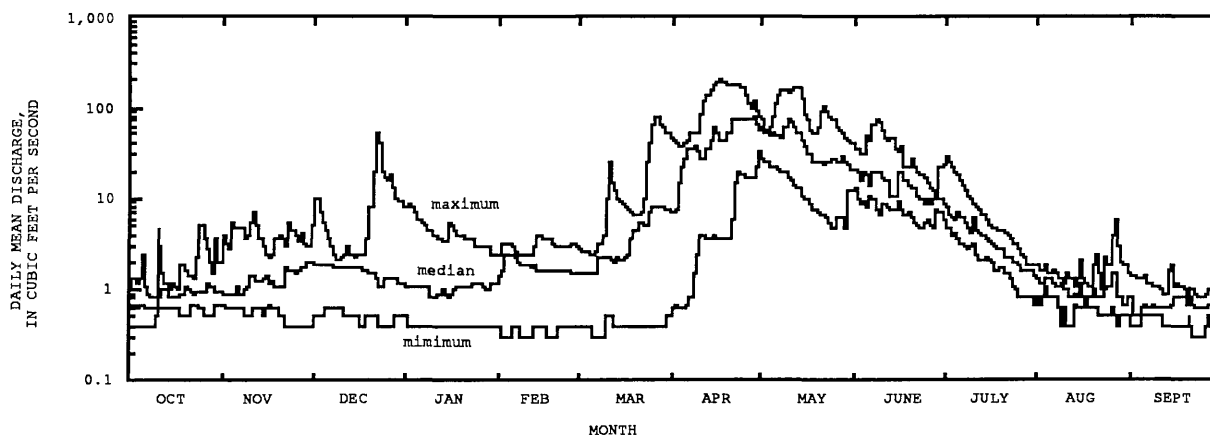
LOCATION MAP

Summary of monthly and annual discharges, 1952-56

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	1.4	0.54	0.97	0.39	0.40	0.7
November	3.5	0.55	1.6	1.1	0.70	1.2
December	8.9	0.51	2.8	3.5	1.2	2.1
January	4.4	0.40	1.6	1.6	1.0	1.1
February	2.4	0.36	1.7	0.86	0.50	1.2
March	18	0.40	7.1	6.8	0.95	5.2
April	115	8.1	54	40	0.74	39.0
May	91	13	45	29	0.65	32.5
June	31	10	17	7.9	0.46	12.4
July	8.6	2.4	4.6	2.4	0.54	3.3
August	1.6	0.74	1.1	0.32	0.29	0.8
September	1.0	0.51	0.72	0.19	0.26	0.5
Annual	18	6.7	11	4.1	0.36	100

Duration table of daily mean flow for period of record 1952-56

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
146	61	36	22	13	5.5	2.6	1.8	1.3	0.96	0.69	0.50	0.41	0.38	0.37	0.34	0.31



CLEARWATER RIVER BASIN

13336000 SELWAY RIVER ABOVE MEADOW CREEK, NEAR LOWELL, ID

LOCATION.—Lat 46°03', long 115°18', in sec.11, T.31 N., R.9 E., Idaho County, Hydrologic Unit 17060302, on right bank 0.25 mi upstream from Meadow Creek, 1.5 mi upstream from Selway Falls, 13 mi upstream from gaging station on Selway River near Lowell, and 16.5 mi southeast of Lowell.

DRAINAGE AREA.—1,550 mi², approximately.

PERIOD OF RECORD.—October 1944 to September 1949.

GAGE.—Staff gage. Elevation of gage is 3,620 ft above sea level, by barometer.

REMARKS.—Small diversions are reported from headwaters of Selway River to Bitterroot River basin, in T.32 N., R.16 E.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 42,000 ft³/s May 29, 1948, gage height, 22.4 ft, from floodmarks, by slope-area determination; minimum daily, 175 ft³/s Dec. 12, 1944.



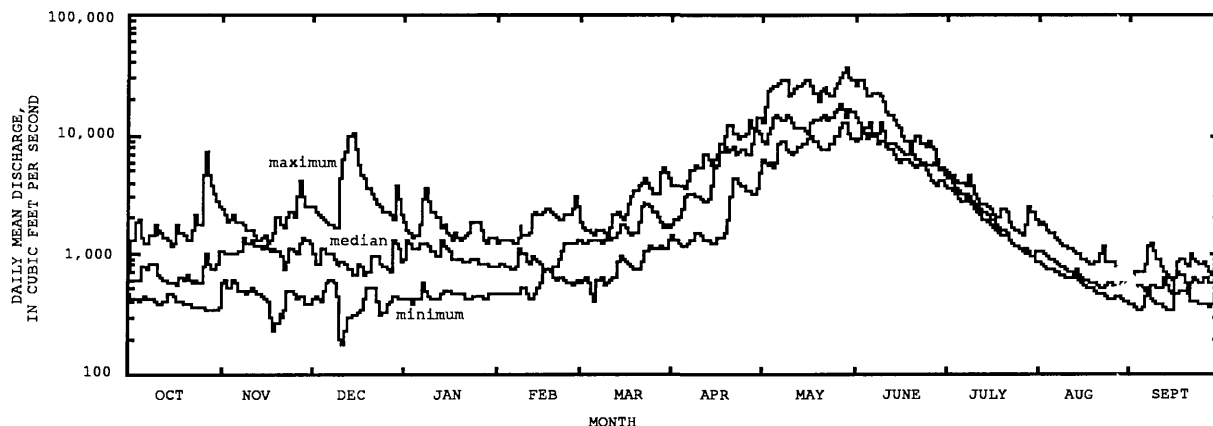
LOCATION MAP

Summary of monthly and annual discharges, 1945-49

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	1,720	391	920	564	0.61	2.3
November	1,800	440	1,120	539	0.48	2.8
December	3,430	395	1,390	1,210	0.87	3.4
January	1,530	461	1,020	450	0.44	2.5
February	1,710	659	1,050	440	0.42	2.6
March	2,500	829	1,720	693	0.40	4.3
April	6,860	2,220	5,210	1,930	0.37	12.9
May	17,700	11,300	14,800	2,960	0.20	36.7
June	14,100	7,380	9,500	2,660	0.28	23.6
July	2,540	2,030	2,310	221	0.10	5.7
August	1,040	572	738	185	0.25	1.8
September	766	449	574	124	0.22	1.4
Annual	4,000	2,440	3,370	637	0.19	100

Duration table of daily mean flow for period of record 1945-49

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
25,400	13,900	10,200	7,550	5,120	2,430	1,590	1,250	984	746	601	477	413	358	335	299	207



CLEARWATER RIVER BASIN

13336100 MEADOW CREEK NEAR LOWELL, ID

LOCATION.—Lat 46°01'51", long 115°17'23", in NE 1/4, sec.14, T.31 N., R.9 E. (unsurveyed), Idaho County, Hydrologic Unit 17060302, Nez Perce National Forest, attached to bridge pier on right bank, at mile 1.1, and 16.5 mi southeast of Lowell.

DRAINAGE AREA.—241 mi². Mean elevation, 5,400 ft.

PERIOD OF RECORD.—October 1963 to September 1970.

GAGE.—Water-stage recorder. Elevation of gage is 1,770 ft above sea level, from river-profile map.

REMARKS.—No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,650 ft³/s June 8, 1964, gage height, 7.26 ft; minimum daily, 32 ft³/s Dec. 17, 1965.



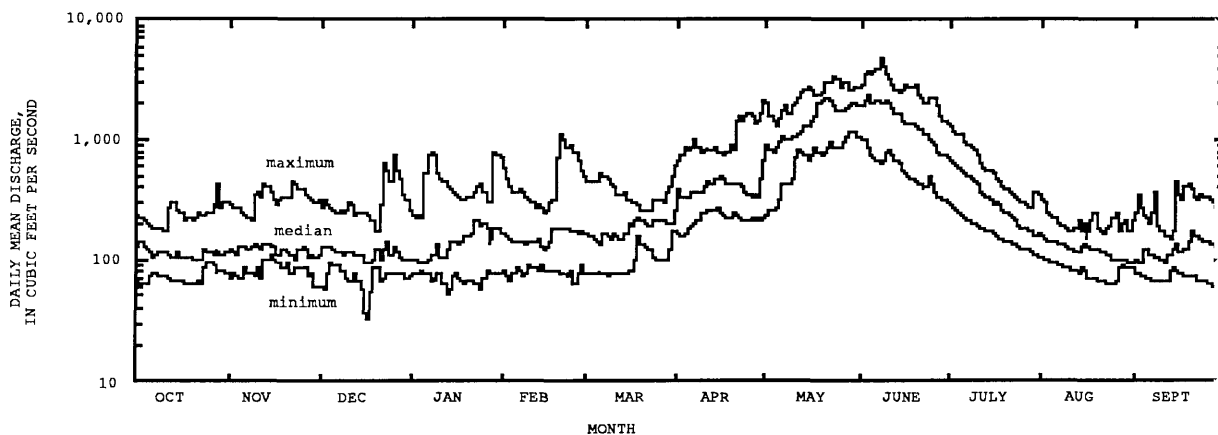
LOCATION MAP

Summary of monthly and annual discharges, 1964-70

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	231	73	126	51	0.40	2.4
November	325	89	155	83	0.53	2.9
December	228	80	144	63	0.44	2.7
January	358	72	180	100	0.56	3.4
February	378	80	198	116	0.59	3.8
March	368	102	211	86	0.41	4.0
April	963	248	520	283	0.54	9.9
May	1,940	1,080	1,530	251	0.16	29.0
June	2,810	591	1,590	760	0.48	30.1
July	606	170	352	140	0.40	6.7
August	183	81	132	37	0.28	2.5
September	228	78	137	56	0.41	2.6
Annual	514	267	440	82	0.19	100

Duration table of daily mean flow for period of record 1964-70

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
2,920	2,000	1,300	840	527	323	233	182	143	120	101	84	75	67	62	59	51



CLEARWATER RIVER BASIN

13338800 LAWYER CREEK NEAR NEZPERCE, ID

LOCATION.—Lat 46°09'48", long 116°14'24", in NW 1/4 NW 1/4 sec.32, T.33 N., R.2 E., Lewis County, Hydrologic Unit 17060306, Nez Perce Indian Reservation, on right bank 350 ft upstream from State Highway 7 bridge, 5.0 mi south of Nezperce, and at mile 15.6.

DRAINAGE AREA.—150 mi², approximately.

PERIOD OF RECORD.—August 1967 to September 1974.

GAGE.—Water-stage recorder. Elevation of gage is 2,675 ft above sea level, from topographic map.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,430 ft³/s Mar. 18, 1972, gage height, 7.85 ft; maximum gage height, 8.25 ft, Jan. 15, 1974 (ice jam); minimum, 1.2 ft³/s Aug. 16-23, 1967, July 29 to Aug. 4, 1968, gage height, 1.33 ft.



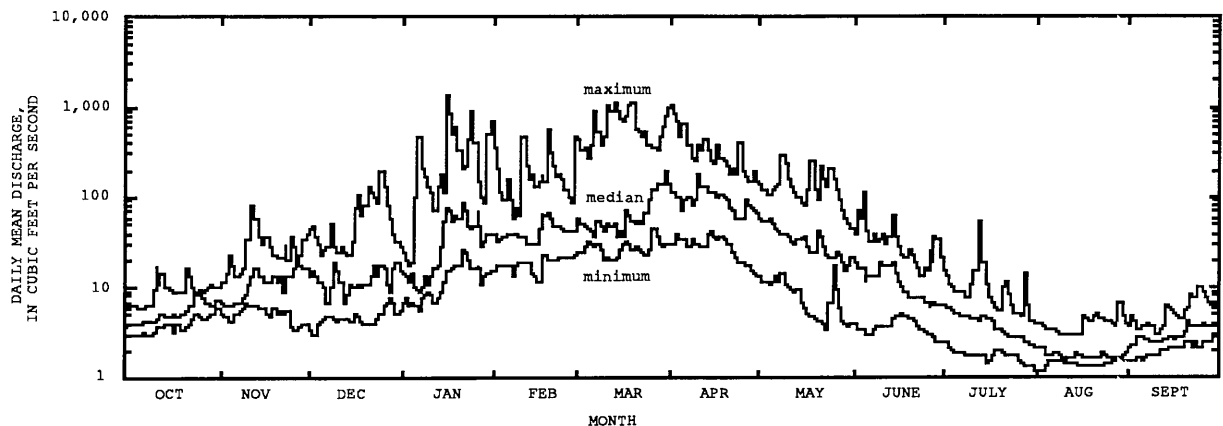
LOCATION MAP

Summary of monthly and annual discharges, 1968-74

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	8.7	4.3	5.9	1.6	0.27	1.1
November	23	5.7	12	5.9	0.48	2.3
December	39	8.7	21	13	0.62	3.7
January	154	19	83	52	0.62	15.0
February	140	23	72	44	0.62	13.1
March	575	39	160	190	1.2	29.1
April	313	30	127	107	0.84	23.1
May	130	9.5	44	40	0.91	8.0
June	35	3.7	15	9.8	0.66	2.7
July	8.3	1.8	4.6	2.3	0.50	0.8
August	3.6	1.5	2.3	0.81	0.35	0.4
September	5.0	2.4	3.4	0.85	0.25	0.6
Annual	98	18	46	27	0.60	100

Duration table of daily mean flow for period of record 1968-74

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
609	195	107	66	49	31	19	13	7.5	5.4	3.8	2.4	1.8	1.6	1.5	1.4	1.2



CLEARWATER RIVER BASIN

13340615 BEAVER CREEK NEAR CANYON RANGER STATION, ID

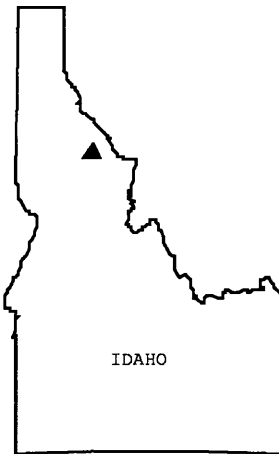
LOCATION.—Lat 46°48'44", long 115°38'48", in SW¹/₄, NW¹/₄, NE¹/₄, sec.13, T.40 N., R.6 E., Clearwater County, Hydrologic Unit 17060308, on right bank 1,000 ft upstream from Sourdough Creek, 1 mi downstream from Sousie Creek, 2.3 mi upstream from mouth, 3.4 mi southwest of Canyon Ranger Station, and 15 mi northeast of Headquarters.

DRAINAGE AREA.—51.7 mi².

PERIOD OF RECORD.—October 1983 to September 1988.

GAGE.—Water-stage recorder. Elevation of gage is 2,220 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 500 ft³/s Apr. 17; minimum daily, 21 ft³/s Dec. 31, Jan. 1, 2.



LOCATION MAP

Summary of monthly and annual discharges, 1984-88

Month	Maximum (ft ³ /s)	Minimum (ft ³ /s)	Mean (ft ³ /s)	Stan- dard devia- tion (ft ³ /s)	Coeffi- cient of vari- ation	Per- centage of annual runoff
October	61	28	46	13	0.27	3.9
November	98	32	70	26	0.37	5.9
December	59	39	47	8.7	0.18	4.0
January	107	34	57	30	0.53	4.7
February	174	40	85	55	0.64	7.1
March	354	58	171	114	0.67	14.3
April	387	204	277	73	0.26	23.2
May	356	88	193	119	0.62	16.2
June	169	54	105	56	0.53	8.8
July	72	44	55	11	0.20	4.6
August	57	32	45	10	0.23	3.7
September	62	29	43	13	0.30	3.6
Annual	127	64	100	29	0.30	100

Duration table of daily mean flow for period of record 1984-88

Discharge, in ft ³ /s, which was exceeded for indicated percentage of time																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
521	309	244	185	139	88	69	59	52	46	40	34	30	27	26	24	22

