

Figure 14. Schematic diagram showing gaging stations in the Payette and Weiser River basins, (includes Snake River at Weiser).

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID

LOCATION.--Lat 44°17'30", long 115°38'33", in SE¹/₄NE¹/₄ sec.17, T.11 N., R.7 E., Valley County, Deadwood Reservoir quad., Hydrologic Unit 17050120, Boise National Forest, on right bank, 300 ft upstream from Wilson Creek, 0.2 mi downstream from Deadwood Dam, 15 mi north of Lowman, and at mile 23.4.

DRAINAGE AREA.--112 mi². Mean elevation, 6,630 ft.

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only prior to May 1927, published in WSP 1317. Published as "at Beaver Creek Ranger Station, near Lowman" prior to October 1934.

REVISED RECORDS.--WSP 1123: 1943. WSP 1517: 1956. WSP 1567: Drainage area. WDR-ID-2000-2: 1997.

GAGE.--Water-stage recorder. Datum of gage is 5,180.52 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). U.S. Geological Survey datum is 29.19 ft higher. Prior to June 22, 1935, at site 600 ft upstream at datum 5.85 ft higher and Oct. 1, 1935 to Aug. 3, 1955, at present site at datum 1.00 ft higher. June 22 to Sept. 30, 1935, nonrecording gage at site 20 ft upstream at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (capacity about 160,400 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1927-30), 2,150 ft³/s May 26, 1928, gage height, 5.67 ft, site and datum then in use; minimum daily, 35 ft³/s Nov. 21, 1929.

Maximum discharge since regulation began in 1931, 2,580 ft³/s July 14, 1953, maximum gage height, 9.09 ft, June 1, 1983; no flow or small amount of leakage from reservoir for long periods in 1934-37, 1993, 1994, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,020 ft³/s Aug. 19; minimum daily, 45 ft³/s Sept. 29-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	52	52	53	54	54	56	57	52	488	807	847
2	49	52	52	53	54	54	56	57	51	640	806	268
3	49	52	52	53	54	54	56	57	51	637	804	177
4	49	52	52	53	54	54	56	58	51	634	802	177
5	49	52	52	53	54	54	56	58	51	634	801	139
6	49	52	52	53	54	54	56	57	51	633	799	75
7	49	52	52	53	54	54	56	57	51	635	797	55
8	50	52	52	53	54	54	56	57	51	634	795	55
9	50	52	52	53	54	54	56	57	51	633	794	54
10	50	52	52	53	53	54	56	57	51	632	817	54
11	50	52	52	53	54	54	56	58	51	632	1010	54
12	51	52	52	53	53	54	56	58	51	630	1000	54
13	51	52	52	53	54	54	56	58	51	630	1010	54
14	51	52	52	53	54	54	56	59	51	629	1010	53
15	51	52	52	53	54	54	56	59	51	627	1010	52
16	51	52	52	53	54	55	56	60	51	627	1000	50
17	52	52	52	53	54	55	56	59	60	637	1000	50
18	52	52	52	53	54	55	56	59	231	791	1010	49
19	52	52	52	53	54	55	56	59	444	788	1020	49
20	52	52	52	53	54	55	56	59	510	787	1010	49
21	46	52	52	53	54	55	56	59	545	794	1010	49
22	52	52	52	53	54	55	56	59	546	795	1010	49
23	52	52	52	53	54	56	56	60	531	793	1000	49
24	52	52	52	53	54	56	57	54	513	792	1010	49
25	52	52	52	53	54	55	57	52	486	790	1010	48
26	52	52	52	53	54	55	57	52	462	789	1010	48
27	52	52	53	53	54	55	57	52	464	787	1000	47
28	53	52	53	53	54	55	57	53	452	787	951	47
29	53	52	53	53	---	55	57	53	451	795	900	45
30	53	52	53	53	---	55	57	53	478	810	897	45
31	53	---	53	54	---	55	---	53	---	808	894	---
TOTAL	1577	1560	1617	1644	1510	1692	1687	1760	6990	21718	28794	2891
MEAN	50.9	52.0	52.2	53.0	53.9	54.6	56.2	56.8	233	701	929	96.4
MAX	53	52	53	54	54	56	57	60	546	810	1020	847
MIN	46	52	52	53	53	54	56	52	51	488	794	45
AC-FT	3130	3090	3210	3260	3000	3360	3350	3490	13860	43080	57110	5730

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1930, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	72.0	91.2	82.7	62.5	65.7	89.7	219	794	742	223	96.0	76.1
MAX	107	173	107	85.0	75.0	135	393	1411	1514	444	147	115
(WY)	1928	1928	1928	1928	1927	1928	1930	1928	1927	1927	1927	1927
MIN	54.3	49.8	47.7	45.0	55.2	61.9	104	470	368	115	67.8	56.4
(WY)	1930	1930	1929	1930	1930	1929	1929	1929	1930	1930	1930	1929

SUMMARY STATISTICS

^a WATER YEARS 1927 - 1930

ANNUAL MEAN	218
HIGHEST ANNUAL MEAN	303
LOWEST ANNUAL MEAN	142
HIGHEST DAILY MEAN	2100
LOWEST DAILY MEAN	35
ANNUAL SEVEN-DAY MINIMUM	39
ANNUAL RUNOFF (AC-FT)	158100
10 PERCENT EXCEEDS	544
50 PERCENT EXCEEDS	88
90 PERCENT EXCEEDS	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2003, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	95.2	21.6	30.1	22.7	25.1	30.8	81.8	183	499	587	713	477
MAX	716	184	412	284	776	650	684	927	1595	1259	1424	1435
(WY)	1944	1939	1939	1997	1997	1997	1971	1946	1984	1973	1951	1956
MIN	0.000	0.000	0.000	0.000	0.50	0.84	0.96	0.99	1.00	32.5	132	1.70
(WY)	1936	1935	1935	1935	1934	1987	1982	1982	1932	1932	1941	1988

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

^b WATER YEARS 1931 - 2003

ANNUAL TOTAL	64365	73440	
ANNUAL MEAN	176	201	232
HIGHEST ANNUAL MEAN			441
LOWEST ANNUAL MEAN			104
HIGHEST DAILY MEAN	1000	Aug 10	1020
LOWEST DAILY MEAN	46	Oct 21	45
ANNUAL SEVEN-DAY MINIMUM	48	Sep 19	47
ANNUAL RUNOFF (AC-FT)	127700		167900
10 PERCENT EXCEEDS	792		871
50 PERCENT EXCEEDS	52		4.3
90 PERCENT EXCEEDS	50		1.2

^a Unregulated.

^b Regulated by Deadwood Reservoir.

PAYETTE RIVER BASIN

13237920 MIDDLE FORK PAYETTE RIVER NEAR CROUCH, ID

LOCATION.--Lat 44°06'50", long 115°58'20", in NW¹/₄SE¹/₄SE¹/₄ sec.16, T.9 S., R.4 E., Boise County, Garden Valley quad., Hydrologic Unit 17050121, on left bank at State Highway 17, 10 ft downstream from bridge, 1.0 mi downstream from Anderson Creek, 0.7 mi southwest of Crouch, and at mile 1.4.

DRAINAGE AREA.--340 mi², approximately.

PERIOD OF RECORD.--July 1970 (discharge measurement only), October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft³/s Apr. 15, 2002, gage height, 6.45 ft; minimum daily, 53 ft³/s Nov. 28, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,690 ft³/s May 31, gage height, 6.10 ft; minimum daily, 48 ft³/s Nov. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	48	e100	167	968	202	736	774	2020	e360	137	89
2	91	e60	e90	155	789	190	840	789	1800	e320	137	87
3	90	e80	e90	151	570	207	736	830	1650	e300	150	86
4	90	e90	e95	166	454	188	654	1040	1510	e300	149	84
5	90	e100	e100	183	e340	185	594	1090	1410	e280	139	83
6	89	e110	e90	e140	e300	190	550	1000	1350	e280	133	82
7	88	119	e70	e110	e260	201	505	903	1340	e260	128	86
8	88	153	e50	e100	e280	205	487	847	1300	e260	125	89
9	88	155	e50	e95	260	216	507	805	1270	e260	122	98
10	87	140	e100	e140	266	223	590	772	1190	e260	117	102
11	85	119	125	e160	237	242	781	825	1100	e240	112	98
12	85	113	127	e140	227	265	968	897	995	e240	111	93
13	89	120	129	168	244	328	1040	1030	933	e220	111	88
14	91	118	177	e240	263	381	1010	1040	878	e220	109	87
15	92	109	216	376	244	478	889	1160	838	e220	107	86
16	92	104	171	246	266	632	790	1280	790	e200	106	87
17	91	103	164	e180	270	584	735	1170	758	e200	103	85
18	91	100	121	e150	256	526	695	1050	722	e200	103	87
19	91	99	113	e150	243	494	645	928	679	e190	104	88
20	90	101	113	e140	235	493	656	908	643	e190	104	85
21	90	106	122	e160	235	461	699	920	583	e180	101	83
22	91	115	111	169	238	588	765	1020	534	e180	112	82
23	97	115	90	191	229	1630	903	1210	502	e170	150	81
24	99	118	81	202	193	1180	863	1550	474	e170	125	80
25	96	98	e80	192	180	926	984	1850	446	e170	113	79
26	94	e60	e70	218	202	882	893	1900	424	e180	109	78
27	93	e80	e90	889	227	790	785	1940	e400	e180	115	78
28	95	e100	e200	811	204	676	722	2060	e400	e170	111	77
29	96	e100	e240	491	---	614	698	2330	e400	e160	98	78
30	100	e100	184	505	---	580	732	2500	e380	e150	93	79
31	82	---	171	799	---	584	---	2410	---	e140	92	---
TOTAL	2824	3133	3730	7984	8680	15341	22452	38828	27719	6850	3626	2565
MEAN	91.1	104	120	258	310	495	748	1253	924	221	117	85.5
MAX	100	155	240	889	968	1630	1040	2500	2020	360	150	102
MIN	82	48	50	95	180	185	487	772	380	140	92	77
AC-FT	5600	6210	7400	15840	17220	30430	44530	77020	54980	13590	7190	5090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
MEAN	107	121	130	168	208	364	782	929	562	165	97.6	89.6
MAX	129	140	151	258	310	495	1033	1253	924	221	117	107
(WY)	2001	2000	2000	2003	2003	2003	2002	2003	2003	2003	2003	2000
MIN	91.1	104	113	123	115	261	347	523	212	104	73.6	73.7
(WY)	2003	2003	2002	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2000 - 2003

ANNUAL TOTAL	121638	143732	
ANNUAL MEAN	333	394	310
HIGHEST ANNUAL MEAN			394
LOWEST ANNUAL MEAN			186
HIGHEST DAILY MEAN	2380	Apr 15	2500
LOWEST DAILY MEAN	48	Nov 1	48
ANNUAL SEVEN-DAY MINIMUM	78	Dec 3	78
ANNUAL RUNOFF (AC-FT)	241300	285100	224700
10 PERCENT EXCEEDS	949	974	863
50 PERCENT EXCEEDS	139	188	148
90 PERCENT EXCEEDS	89	87	89

e Estimated

PAYETTE RIVER BASIN

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK, NEAR MCCALL, ID

LOCATION.--Lat 45°02'05", long 116°03'30", in NW¼NE¼NW¼ sec.35, T.20 N., R.3 E., Valley County, Granite Lake quad., Hydrologic Unit 17050123, on right bank, 0.2 mi downstream from Fisher Creek, 3.0 mi upstream from the north end of Payette Lake, 8.6 mi north of McCall.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to September 2003 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,020 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for discharges May 23 to July 9, which are fair, and estimated daily discharges, which are poor. Partial regulation for irrigation supply from Upper Payette Lake (usable storage capacity 3,000 acre-feet), Granite Lake (usable storage capacity 2,900 acre-feet) and Box Lake (usable storage capacity 1,295 acre-feet).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s May 29, 2003, gage height, 8.89 ft; minimum daily, 4.4 ft³/s Oct. 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s May 29, gage height, 8.89 ft; minimum daily, 6.0 ft³/s Nov. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e6.0	13	e16	e90	e42	e170	365	2610	132	29	44
2	9.4	e6.0	13	e15	e90	e42	181	421	2380	108	28	44
3	9.1	7.3	13	e17	e80	e42	152	497	2140	93	30	42
4	9.0	7.5	e12	e18	e70	e40	137	523	2080	80	30	42
5	9.3	8.0	13	e18	e60	e40	126	416	2180	72	31	41
6	9.3	8.4	11	e17	e60	e40	116	336	2150	63	30	40
7	9.2	8.6	e9.0	e14	e55	e40	e110	303	2170	56	29	39
8	8.7	15	e9.0	e12	e60	e40	104	319	2150	59	29	42
9	8.4	26	e10	e12	e50	e40	118	407	2100	57	28	42
10	8.2	36	e13	e13	e50	e40	166	509	1860	59	28	56
11	8.0	32	e16	e15	e50	e40	280	589	1610	65	27	96
12	7.7	25	e18	e16	e55	e42	419	552	1460	65	27	104
13	7.5	22	e24	e16	e60	e46	479	544	1390	60	26	97
14	7.3	18	e30	e18	e60	e55	405	820	1320	56	26	90
15	7.3	16	e38	e22	e55	e70	316	1440	1230	52	26	82
16	7.3	14	e32	e18	e50	e90	269	1460	1190	48	26	74
17	7.3	13	e28	e17	e50	88	239	988	1180	43	25	62
18	7.3	13	e20	e13	e50	77	213	672	1030	39	25	50
19	7.3	12	e19	e12	e48	74	197	544	895	36	24	42
20	7.2	11	e19	e14	e48	72	228	715	1030	33	24	37
21	7.3	10	e20	e16	e48	69	328	1080	697	30	27	34
22	7.3	11	e18	e15	e48	e140	e460	1580	521	27	38	31
23	7.3	12	e16	e19	e44	e220	e660	2270	440	33	60	29
24	7.3	14	e14	e20	e36	183	682	2810	436	33	54	27
25	e8.0	e12	e11	e18	e30	147	727	3120	370	33	51	25
26	e8.0	e11	e11	e20	e36	132	505	3130	328	35	50	24
27	e8.0	e12	e13	e65	e36	114	370	2970	325	40	51	22
28	7.1	12	e24	e60	e38	112	316	3190	299	36	49	20
29	7.5	12	e24	e50	---	95	326	3650	246	33	48	19
30	7.4	13	e18	e50	---	95	376	3870	188	32	47	16
31	6.1	---	e17	e50	---	113	---	3170	---	30	45	---
TOTAL	247.1	423.8	546.0	696	1507	2480	9175	43260	38005	1638	1068	1413
MEAN	7.97	14.1	17.6	22.5	53.8	80.0	306	1395	1267	52.8	34.5	47.1
MAX	11	36	38	65	90	220	727	3870	2610	132	60	104
MIN	6.1	6.0	9.0	12	30	40	104	303	188	27	24	16
AC-FT	490	841	1080	1380	2990	4920	18200	85810	75380	3250	2120	2800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003			
MEAN	34.8	87.5	87.4	82.4	65.4	95.8	394	1375	1058	144	57.1	45.9
MAX	74.7	278	399	389	130	202	634	1847	1718	265	92.7	85.9
(WY)	1996	1997	1996	1997	1996	1995	2000	1997	1999	1999	1997	1995
MIN	7.97	14.1	17.6	22.5	24.1	36.3	233	866	151	36.0	25.5	15.8
(WY)	2003	2003	2003	2003	1999	1999	2001	2001	2001	2001	2000	2001

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1995 - 2003
ANNUAL TOTAL	88916.9	100458.9	
ANNUAL MEAN	244	275	295
HIGHEST ANNUAL MEAN			416
LOWEST ANNUAL MEAN			132
HIGHEST DAILY MEAN	2870	May 30	3870
LOWEST DAILY MEAN	6.0	Nov 1	6.0
ANNUAL SEVEN-DAY MINIMUM	6.8	Oct 28	6.8
ANNUAL RUNOFF (AC-FT)	176400	199300	213400
10 PERCENT EXCEEDS	944	720	965
50 PERCENT EXCEEDS	46	42	60
90 PERCENT EXCEEDS	9.3	9.3	21

e Estimated

PAYETTE RIVER BASIN

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK NEAR MCCALL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1994 to September 2003 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)
OCT 08...	1215	9.1	30	12.0	5.5	<.022	<.015	E.08	E.003	E.002
NOV 21...	1100	10	29	1.5	.4	.031	<.015	E.05	.004	E.003
JAN 15...	1510	23	30	-1.0	.0	.070	<.015	E.05	.004	<.004
MAR 06...	1210	40	26	2.0	.0	.050	<.015	E.10	E.002	E.003
APR 23...	1150	654	19	11.0	1.6	.053	<.015	.12	.007	<.004
MAY 28...	1310	2400	11	--	4.5	.028	<.015	.13	.011	.004
JUL 09...	1030	55	20	17.0	12.7	<.022	<.015	E.06	.006	E.003
SEP 04...	0835	43	19	20.0	14.0	<.022	<.015	E.07	.004	E.004

< Less than
E Estimated value

PAYETTE RIVER BASIN

13238500 PAYETTE LAKE AT MCCALL, ID

LOCATION.--Lat 44°54'50", long 116°07'10", in NW¼ sec.8, T.18 N., R.3 E., Valley County, McCall quad., Hydrologic Unit 17050123, at outlet of lake, on North Fork Payette River at McCall, and at mile 75.4.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--August 1921 to current year (fragmentary prior to Nov. 23, 1943). Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 753: 1931. WSP 1013: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,981.73 ft above NGVD of 1929. Prior to Aug. 26, 1931, nonrecording gage at site 25 ft downstream at datum 3.0 ft higher. Aug. 26, 1931 to Nov. 22, 1943, nonrecording gage at site 75 ft downstream at datum 1.0 ft higher. November 23, 1943 to September 30, 1984, at present site at datum 1.0 ft higher.

REMARKS.--Station equipment includes satellite telemetry. Flow from Payette Lake is regulated within natural range by tainter gates and removable stoplogs of a buttress and slab-type dam completed in November 1943. During period 1923-43 lake was regulated by structure consisting of a series of concrete-filled cribs supporting removable flashboards. Some regulation is reported to have been affected by timber flashboards for several years prior to 1923. Lake area is approximately 5,000 acres. No capacity table has been developed. Water is used for irrigation in vicinity of Emmett. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 8.75 ft, July 13, 1935; minimum, 0.84 ft, Nov. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.77 ft, May 31; minimum, 0.87 ft, Dec. 9, 10.

GAGE HEIGHT, in FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.69	1.24	0.97	1.34	1.75	1.51	2.11	2.99	7.24	6.98	6.26	5.40
2	3.60	1.22	0.97	1.37	1.77	1.48	2.17	2.99	6.88	6.97	6.22	5.38
3	3.51	1.18	0.95	1.39	1.79	1.47	2.18	3.04	6.68	6.99	6.19	5.35
4	3.43	1.17	0.96	1.37	1.79	1.47	2.18	3.12	6.57	6.98	6.16	5.34
5	3.33	1.14	0.95	1.34	1.77	1.46	2.16	3.11	6.35	6.97	6.14	5.34
6	3.25	1.08	0.94	1.32	1.77	1.45	2.14	3.04	6.16	6.95	6.11	5.31
7	3.16	1.09	0.93	1.31	1.76	1.44	2.11	2.98	6.02	6.95	6.05	5.28
8	3.08	1.18	0.92	1.29	1.74	1.46	2.08	2.91	5.92	6.99	6.02	5.34
9	3.01	1.19	0.91	1.27	1.72	1.46	2.06	2.91	5.88	6.97	5.98	5.30
10	2.92	1.19	0.91	1.25	1.70	1.46	2.08	2.96	5.86	6.94	5.92	5.28
11	2.78	1.18	0.95	1.24	1.69	1.45	2.17	3.08	6.11	6.93	5.89	5.30
12	2.61	1.17	0.94	1.28	1.66	1.46	2.36	3.23	6.32	6.92	5.87	5.24
13	2.46	1.16	1.01	1.29	1.68	1.46	2.52	3.26	6.45	6.87	5.81	5.21
14	2.33	1.15	1.07	1.33	1.68	1.46	2.60	3.38	6.59	6.86	5.76	5.11
15	2.21	1.13	1.09	1.34	1.66	1.53	2.64	3.71	6.69	6.84	5.74	5.01
16	2.11	1.14	1.16	1.32	1.70	1.57	2.64	3.99	6.75	6.81	5.70	4.89
17	2.03	1.10	1.15	1.29	1.68	1.57	2.65	4.02	6.80	6.77	5.67	4.77
18	1.95	1.08	1.14	1.28	1.67	1.58	2.61	3.91	6.83	6.73	5.64	4.64
19	1.87	1.09	1.13	1.27	1.65	1.59	2.57	3.76	6.86	6.70	5.62	4.54
20	1.80	1.09	1.13	1.25	1.65	1.59	2.56	3.72	7.01	6.65	5.58	4.43
21	1.72	1.06	1.12	1.24	1.64	1.61	2.60	3.83	6.95	6.61	5.54	4.33
22	1.67	1.05	1.12	1.28	1.63	1.75	2.70	4.10	6.87	6.58	5.57	4.25
23	1.62	1.04	1.11	1.28	1.62	1.92	2.88	4.61	6.83	6.55	5.56	4.16
24	1.56	1.04	1.10	1.29	1.60	1.95	3.06	5.33	6.81	6.52	5.54	4.07
25	1.51	1.02	1.09	1.30	1.57	2.01	3.19	5.98	6.80	6.48	5.53	3.99
26	1.47	1.00	1.12	1.35	1.55	2.05	3.20	6.38	6.87	6.48	5.49	3.91
27	1.44	1.00	1.20	1.46	1.53	2.04	3.15	6.60	6.92	6.46	5.50	3.81
28	1.39	0.98	1.24	1.51	1.52	2.01	3.08	6.83	6.98	6.43	5.49	3.74
29	1.36	0.99	1.26	1.56	---	1.98	3.01	7.22	6.99	6.37	5.46	3.65
30	1.31	0.98	1.33	1.60	---	1.96	3.02	7.68	7.01	6.35	5.44	3.65
31	1.27	---	1.36	1.68	---	1.99	---	7.59	---	6.30	5.42	---
MEAN	2.30	1.10	1.07	1.34	1.68	1.65	2.55	4.27	6.63	6.74	5.77	4.73
MAX	3.69	1.24	1.36	1.68	1.79	2.05	3.20	7.68	7.24	6.99	6.26	5.40
MIN	1.27	0.98	0.91	1.24	1.52	1.44	2.06	2.91	5.86	6.30	5.42	3.65

CAL YR 2002MEAN 3.18MAX 7.00MIN 0.91
WTR YR 2003MEAN 3.33MAX 7.68MIN 0.91

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID

LOCATION.--Lat 44°54'27", long 116°07'04", in NW¹/₄SE¹/₄SW¹/₄ sec.8, T.18 N., R.3 E., Valley County, McCall quad., Hydrologic Unit 17050123, on left bank, at McCall, 0.2 mi downstream from outlet of Payette Lake, and at mile 75.2.

DRAINAGE AREA.--144 mi². Mean elevation, 6,520 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1908 to June 1917, May 1919 to current year. Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 963: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,967.75 ft above NGVD of 1929 (levels by Idaho Fish and Game). Nonrecording gage at site 1 mi downstream at different datum prior to Oct. 14, 1908, and Oct.14, 1908 to Dec. 18, 1923, at sites near present gage at present datum.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated to some extent since several years prior to 1923 by gates at outlet of Payette Lake 0.2 mi upstream (see sta 13238500) and several smaller lakes upstream. Diversion for fish hatchery bypasses station and is returned below gage. Records of daily discharge of this diversion published in annual Water-Supply Papers from October 1942 to February 1953. Diversions since 1980 not comparable.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft³/s June 19, 1974, gage height, 8.16 ft; no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935, Oct. 22 to Nov. 11, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s May 31, gage height, 8.03 ft; minimum daily, 20 ft³/s Dec. 9-12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	61	24	69	133	95	241	642	4450	213	74	54
2	150	55	23	69	145	92	266	632	4060	142	74	53
3	191	51	22	72	149	89	272	644	3410	114	74	53
4	208	47	22	71	152	88	277	688	2910	93	73	52
5	201	44	21	69	152	87	273	706	3190	78	72	52
6	194	41	21	66	149	87	267	682	3220	74	72	57
7	191	38	21	63	146	86	259	645	3070	75	72	61
8	187	47	21	61	142	88	249	610	2960	76	71	68
9	175	50	20	57	137	88	243	597	2800	87	71	71
10	168	53	20	55	133	88	245	605	2450	94	71	77
11	298	52	20	54	128	87	263	653	1460	93	71	92
12	422	50	20	54	125	87	313	718	1300	93	71	118
13	357	48	e22	59	124	86	388	760	1400	92	71	159
14	305	46	e26	65	127	87	445	793	1280	92	71	286
15	264	44	e28	67	124	94	464	925	1300	92	70	309
16	231	41	e36	65	126	106	465	1190	1400	99	67	319
17	205	39	e42	63	128	110	463	1290	1330	103	66	323
18	189	37	e40	60	126	112	463	1210	1230	103	66	319
19	181	36	e40	57	123	113	440	1120	1040	103	61	298
20	163	34	39	56	119	114	427	1050	908	91	58	277
21	148	33	39	54	120	115	432	1080	955	85	57	229
22	138	32	38	54	120	129	462	1200	896	83	57	226
23	126	31	36	58	118	179	541	1420	741	79	57	224
24	115	31	34	57	113	203	622	1780	568	79	57	221
25	105	29	33	60	108	213	724	2600	455	79	57	219
26	97	27	34	64	104	230	769	3220	283	78	56	216
27	89	26	42	78	100	231	747	3520	254	78	56	213
28	84	26	52	89	97	224	698	3700	257	76	56	210
29	78	25	56	96	---	217	661	4040	257	76	55	208
30	72	24	59	108	---	210	650	4450	256	75	55	194
31	67	---	70	120	---	208	---	4720	---	75	55	---
TOTAL	5534	1198	1021	2090	3568	4043	13029	47890	50090	2870	2014	5258
MEAN	179	39.9	32.9	67.4	127	130	434	1545	1670	92.6	65.0	175
MAX	422	61	70	120	152	231	769	4720	4450	213	74	323
MIN	67	24	20	54	97	86	241	597	254	74	55	52
AC-FT	10980	2380	2030	4150	7080	8020	25840	94990	99350	5690	3990	10430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2003, BY WATER YEAR (WY)

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	115	92.3	96.1	92.6	94.5	105	338	1366	1430	313	152	122																																																																																				
MAX	599	385	586	453	416	348	1289	2596	3436	1157	527	316																																																																																				
(WY)	1963	1974	1996	1997	1963	1986	1934	1997	1974	1916	1943	1980																																																																																				
MIN	0.54	0.48	1.00	1.00	1.00	1.26	5.94	240	134	20.5	23.5	13.8																																																																																				
(WY)	1944	1932	1936	1936	1937	1937	1977	1977	2001	1961	1956	1958																																																																																				

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1908 - 2003
ANNUAL TOTAL	116648	138605	
ANNUAL MEAN	320	380	362
HIGHEST ANNUAL MEAN			655
LOWEST ANNUAL MEAN			122
HIGHEST DAILY MEAN	3060	4720	4840
LOWEST DAILY MEAN	20	20	0.00
ANNUAL SEVEN-DAY MINIMUM	20	20	0.00
ANNUAL RUNOFF (AC-FT)	231400	274900	261900
10 PERCENT EXCEEDS	885	937	1150
50 PERCENT EXCEEDS	86	103	117
90 PERCENT EXCEEDS	39	39	22

e Estimated

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-1981, 1992, October 1994 to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1998, November 2001 to October 2002, August to September 2003 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 25.2 °C Aug. 13, 1998; minimum, 0.6 °C Feb. 7-8, Mar. 2-3, 8, 18, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.3 °C Aug. 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	pH, water, unfiltered, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfiltered, lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC 0.7u col/100 mL (31625)
OCT 08...	1600	188	19	--	16.0	13.6	--	--	--	--
NOV 21...	1615	32	19	--	5.0	6.7	--	--	--	--
JAN 15...	1015	67	20	--	-7.0	1.5	--	--	--	--
MAR 06...	1745	84	20	--	5.0	2.0	--	--	--	--
APR 23...	1610	571	20	--	9.5	5.4	--	--	--	--
MAY 28...	1050	3700	20	--	--	14.4	--	--	--	--
JUL 08...	1830	75	17	7.3	26.0	18.9	<1.0	6.6	85	22
AUG 06...	1415	72	18	7.6	27.0	23.6	12	7.9	112	S6
SEP 04...	1110	52	18	6.8	19.0	19.9	<1.0	7.9	104	S3

Date	Hardness, water, unfiltered, mg/L as CaCO3 (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Sodium, water, filtered, mg/L (00930)	Sodium, percent (00932)	Potassium, water, filtered, mg/L (00935)	Bicarbonate, wat unfiltered, fixed end pt, field, mg/L (00440)	Carbonate, wat unfiltered, fixed end pt, field, mg/L (00445)	ANC, wat unfiltered, fixed end pt, field, mg/L as CaCO3 (00410)	Sulfate, water, filtered, mg/L (00945)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L (00955)
SEP 04...	6	1.98	.296	.91	23	.42	10	.0	9	.5	E.18	<.2	5.6

Date	Ammonia, water, filtered, mg/L as N (00608)	Ammonia + org-N, water, unfiltered, mg/L as N (00625)	Nitrite + nitrate, water, filtered, mg/L as N (00631)	Phosphorus, water, filtered, mg/L (00666)	Phosphorus, water, unfiltered, mg/L (00665)	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT 08...	<.015	.12	<.022	E.002	.007	--	--
NOV 21...	<.015	E.09	<.022	E.002	.005	--	--
JAN 15...	<.015	E.09	E.020	E.003	.005	--	--
MAR 06...	<.015	.13	.017	<.004	.006	--	--
APR 23...	<.015	.13	.028	E.002	.007	--	--
MAY 28...	<.015	.14	<.022	E.003	.009	--	--
JUL 08...	<.015	.12	<.022	E.002	.007	1	.20
AUG 06...	<.015	.12	<.022	E.003	.006	2	.39
SEP 04...	<.015	E.10	<.022	E.003	.006	1	.14

< Less than
E Estimated value
S Most probable value

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID--Continued

Temperature, water, degrees Celsius												
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	21.9	19.0	20.4
2	---	---	---	---	---	---	---	---	---	22.1	19.3	20.6
3	---	---	---	---	---	---	---	---	---	21.4	18.8	20.1
4	---	---	---	---	---	---	---	---	---	21.4	19.1	20.2
5	---	---	---	---	---	---	---	---	---	21.8	19.3	20.4
6	---	---	---	---	---	---	---	---	---	21.4	19.6	20.5
7	---	---	---	---	---	---	24.3	20.9	21.9	20.4	18.5	19.4
8	---	---	---	---	---	---	23.8	19.8	21.4	18.7	17.5	18.1
9	---	---	---	---	---	---	23.9	20.1	21.4	17.6	16.6	17.1
10	---	---	---	---	---	---	23.6	19.8	21.2	18.2	16.3	17.0
11	---	---	---	---	---	---	22.8	19.8	20.9	17.5	16.4	16.8
12	---	---	---	---	---	---	22.3	19.5	20.6	17.2	15.6	16.4
13	---	---	---	---	---	---	23.3	19.5	20.9	17.4	15.2	16.1
14	---	---	---	---	---	---	23.1	19.1	20.9	17.1	15.3	16.1
15	---	---	---	---	---	---	23.3	20.4	21.7	16.6	15.3	15.8
16	---	---	---	---	---	---	23.8	21.2	22.2	16.0	15.2	15.6
17	---	---	---	---	---	---	22.9	19.8	21.1	15.3	14.8	15.0
18	---	---	---	---	---	---	23.3	19.9	21.4	15.6	14.2	14.8
19	---	---	---	---	---	---	23.6	20.4	21.8	15.8	14.1	14.7
20	---	---	---	---	---	---	23.8	20.3	21.8	15.8	13.9	14.7
21	---	---	---	---	---	---	22.4	20.4	21.4	15.5	13.9	14.5
22	---	---	---	---	---	---	21.4	20.4	20.7	16.0	13.8	14.7
23	---	---	---	---	---	---	22.3	19.8	20.7	16.0	14.2	15.0
24	---	---	---	---	---	---	22.4	19.1	20.5	16.4	14.1	15.1
25	---	---	---	---	---	---	22.6	19.1	20.6	15.8	14.5	15.2
26	---	---	---	---	---	---	21.3	19.1	20.1	16.7	14.1	15.2
27	---	---	---	---	---	---	21.4	18.8	19.8	16.7	14.7	15.6
28	---	---	---	---	---	---	21.9	18.3	19.8	17.1	14.7	15.7
29	---	---	---	---	---	---	22.1	18.8	20.1	16.9	15.0	16.0
30	---	---	---	---	---	---	21.8	18.5	20.0	17.4	15.2	16.2
31	---	---	---	---	---	---	21.9	18.7	20.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	22.1	13.8	16.8

PAYETTE RIVER BASIN

13245000 NORTH FORK PAYETTE RIVER AT CASCADE, ID

LOCATION.--Lat 44°31'30", long 116°02'45" in SW¹/₄NW¹/₄NW¹/₄ sec.25, T.14 N., R.3 E., Valley County, Cascade quad., Hydrologic Unit 17050123, 0.2 mi downstream from Cascade Dam, and at mile 40.0.

DRAINAGE AREA.--620 mi². Mean elevation, 5,960 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,720.00 ft above NGVD of 1929. May 1941 to Jan. 28, 1947 (nonrecording gage), Jan. 29, 1947 to Nov. 5, 1958, Oct. 1, 1965 to Sept. 30, 1982, at site 1.4 mi downstream at datum 4,725.31 ft above NGVD of 1929; Nov. 6, 1958 to Sept. 30, 1965, at site 0.1 mi upstream at datum 4,734.59 ft above NGVD of 1929.

REMARKS.--Station equipment includes satellite telemetry. Flow regulated by Payette Lake (see sta 13238500), Lake Fork Reservoir and Cascade Reservoir 0.2 mi upstream, beginning November 1947 (sta 13244500). Diversions above station for irrigation of about 39,000 acres, (1966 determination).

COOPERATION.--Discharge records furnished by Idaho Power and reviewed by U.S. Geological Survey beginning April 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,320 ft³/s May 10, 1947, gage height, 6.29 ft, site and datum then in use; no flow for part of Oct. 14, 1971, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,560 ft³/s June 10; minimum daily, 184 ft³/s Oct. 15, Mar. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	748	207	203	218	262	210	201	802	2190	1910	2010	1490
2	745	210	204	221	258	210	203	794	1790	1900	2010	1480
3	743	205	205	220	256	211	190	796	1790	1890	2000	1480
4	744	216	205	217	261	207	188	800	2030	1880	2010	1480
5	738	221	205	220	255	202	474	1000	2440	1880	2000	1510
6	731	221	206	226	246	204	954	1890	2910	1870	2090	1530
7	716	222	208	227	260	207	1080	2170	3480	1870	2210	1530
8	686	224	208	227	267	214	1070	2170	3550	1860	2220	1470
9	690	224	208	229	266	214	1070	2170	3550	1820	2210	1440
10	687	225	209	227	234	214	1020	2170	3560	1790	2210	1400
11	686	223	206	227	208	214	942	2170	3530	1780	2200	1310
12	684	224	206	229	213	222	943	2180	3490	1770	2210	1240
13	651	227	209	228	216	231	944	2180	3290	1780	2110	1190
14	410	233	207	232	212	212	945	2170	2930	1770	1800	1160
15	184	233	211	234	211	184	945	2170	2930	1760	1810	1170
16	185	234	210	235	216	185	956	1870	2740	1750	1810	1150
17	189	231	208	236	214	202	985	1470	2570	1740	1820	1150
18	197	231	211	236	209	210	1010	1470	2570	1740	1820	1160
19	198	231	209	243	212	211	1010	1470	2560	1740	1710	1100
20	197	231	212	243	222	211	1010	1480	2550	1730	1480	1060
21	203	231	213	243	233	212	1010	1330	2410	1730	1500	1070
22	207	232	211	245	227	217	1010	1180	2100	1730	1500	1080
23	210	233	207	307	226	219	1010	1500	2010	1710	1510	1080
24	208	212	206	244	211	224	1000	1810	1940	1710	1490	1070
25	203	194	203	247	209	192	1010	1810	1940	1710	1490	1030
26	207	198	214	248	217	203	1020	1810	1930	1700	1490	952
27	208	196	222	252	216	200	1020	1820	1930	1700	1490	941
28	207	195	220	251	212	198	1010	1790	1920	1670	1510	943
29	207	195	220	251	---	198	844	1780	1920	1650	1510	987
30	207	200	220	254	---	198	806	2020	1910	1650	1490	1010
31	208	---	221	261	---	198	---	2200	---	1820	1490	---
TOTAL	13084	6559	6507	7378	6449	6434	25880	52442	76460	55010	56210	36663
MEAN	422	219	210	238	230	208	863	1692	2549	1775	1813	1222
MAX	748	234	222	307	267	231	1080	2200	3560	1910	2220	1530
MIN	184	194	203	217	208	184	188	794	1790	1650	1480	941
AC-FT	25950	13010	12910	14630	12790	12760	51330	104000	151700	109100	111500	72720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2003, BY WATER YEAR (WY)

MEAN	654	392	549	595	632	773	1032	1217	1852	1363	1610	1397
MAX	1353	1093	1789	2679	3138	2835	3639	4668	4282	2623	2513	2475
(WY)	1955	1951	1996	1997	1997	1974	1943	1947	1943	1952	1957	1973
MIN	134	12.3	3.00	144	136	126	102	74.5	117	513	389	136
(WY)	1978	1949	1948	1980	1980	1977	1957	1962	1962	1944	1947	1944

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1942 - 2003	
ANNUAL TOTAL	229629		349076			
ANNUAL MEAN	629		956		1006	
HIGHEST ANNUAL MEAN					1598	
LOWEST ANNUAL MEAN					510	
HIGHEST DAILY MEAN	2010	Aug 13	3560	Jun 10	7150	May 11 1947
LOWEST DAILY MEAN	170	Jan 27	184	Oct 15	2.0	Jan 1 1948
ANNUAL SEVEN-DAY MINIMUM	175	Jan 25	193	Oct 15	2.1	Dec 31 1947
ANNUAL RUNOFF (AC-FT)	455500		692400		729200	
10 PERCENT EXCEEDS	1660		2090		2240	
50 PERCENT EXCEEDS	230		738		720	
90 PERCENT EXCEEDS	198		205		177	

PAYETTE RIVER BASIN

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID

LOCATION.--Lat 44°06'50", long 116°06'25", in SW¼NW¼SE¼ sec.16, T.9 N., R.3 E., Boise County, Banks quad., Hydrologic Unit 17050123, Boise National Forest, on right bank, 300 ft downstream from highway bridge, 2.5 mi north of Banks, and at mile 2.8.

DRAINAGE AREA.--933 mi². Mean elevation, 5,800 ft.

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

GAGE.--Water-stage recorder. Datum of gage is 3,081.13 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Payette Lake (sta 13238500), Lake Fork Reservoir, and Cascade Reservoir, 37.1 mi upstream, beginning November 1947. Diversions above station for irrigation of about 50,800 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,830 ft³/s May 11, 1947, gage height, 13.50 ft, estimated on basis of records for station near Smiths Ferry; minimum recorded discharge, 36 ft³/s Dec. 21, 1947, gage height, 3.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,340 ft³/s June 9, gage height, 10.13 ft; minimum daily, 220 ft³/s Dec. 8, 9, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e800	e240	263	393	1380	387	868	1540	3370	2120	2130	1500
2	e800	e240	266	382	1020	374	977	1420	3090	2110	2190	1500
3	e800	e260	263	383	786	388	880	1430	2780	2100	2200	1510
4	e800	265	265	406	665	382	791	1720	2720	2080	2200	1510
5	e800	287	267	409	574	372	745	1720	3040	2070	2200	1500
6	e800	295	264	351	521	377	1080	2050	3420	2070	2170	1560
7	e800	297	261	e320	504	385	1450	2920	3970	2050	2350	1560
8	820	340	e220	e320	513	393	1470	2920	4280	2060	2390	1570
9	793	356	e220	e320	494	411	1480	2890	4290	2050	2390	1470
10	792	347	e240	e340	490	453	1530	2840	4260	2000	2380	1490
11	794	325	e260	360	425	615	1510	2910	4210	1970	2370	1390
12	794	316	270	357	393	779	1570	3090	4120	1960	2360	1280
13	794	325	277	384	412	872	1660	3240	4060	1950	2370	1250
14	737	324	341	426	427	791	1700	3090	3680	1950	2080	1160
15	439	327	423	471	466	791	1620	3090	3510	1950	1900	1160
16	257	322	376	461	510	956	1540	3110	3460	1940	1900	1160
17	244	324	343	428	568	771	1510	2450	3090	1930	1890	1150
18	246	317	307	399	478	709	1550	2250	3050	1930	1900	1150
19	256	319	294	384	434	670	1510	2190	3030	1920	1910	1170
20	255	318	298	383	431	661	1510	2160	3010	1920	1660	1080
21	255	320	303	386	447	642	1540	2150	2960	1910	1540	1070
22	260	323	306	384	457	870	1570	1920	2620	1900	1560	1080
23	267	324	279	438	447	1860	1620	1950	2450	1900	1560	1080
24	269	322	287	521	410	1210	1620	2640	2280	1890	1540	1070
25	265	278	e240	463	375	975	1750	2850	2250	1900	1510	1060
26	258	249	e220	490	389	1140	1750	2880	2240	1890	1520	997
27	264	256	e240	1160	398	991	1660	2900	2210	1890	1530	922
28	270	257	e340	1160	388	802	1590	2930	2190	1870	1510	918
29	268	256	473	802	---	746	1540	2970	2170	1840	1550	918
30	273	256	395	894	---	726	1410	3110	2150	1820	1510	996
31	267	---	277	1360	---	734	---	3470	---	1820	1510	---
TOTAL	15737	8985	9078	15735	14802	22233	43001	78800	93960	60760	59780	37231
MEAN	508	300	293	508	529	717	1433	2542	3132	1960	1928	1241
MAX	820	356	473	1360	1380	1860	1750	3470	4290	2120	2390	1570
MIN	244	240	220	320	375	372	745	1420	2150	1820	1510	918
AC-FT	31210	17820	18010	31210	29360	44100	85290	156300	186400	120500	118600	73850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY)

MEAN	794	500	692	777	858	1134	1737	1987	2383	1563	1748	1560
MAX	1435	1256	1983	3632	3763	3545	3759	4303	5286	2948	2559	2521
(WY)	1955	1951	1996	1997	1997	1974	1971	1952	1953	1982	1957	1969
MIN	194	109	89.5	237	250	223	443	470	407	702	439	328
(WY)	1978	1949	1948	1989	1989	1977	1991	1992	1988	1986	1947	1948

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1947 - 2003	
ANNUAL TOTAL	307619		460102			
ANNUAL MEAN	843		1261		1316	
HIGHEST ANNUAL MEAN					2186	
LOWEST ANNUAL MEAN					637	
HIGHEST DAILY MEAN	2170		4290		7990	
LOWEST DAILY MEAN	153		220		50	
ANNUAL SEVEN-DAY MINIMUM	235		247		69	
ANNUAL RUNOFF (AC-FT)	610200		912600		953200	
10 PERCENT EXCEEDS	1690		2800		2710	
50 PERCENT EXCEEDS	800		996		1030	
90 PERCENT EXCEEDS	265		269		294	

e Estimated

PAYETTE RIVER BASIN

13247500 PAYETTE RIVER NEAR HORSESHOE BEND, ID

LOCATION.--Lat 43°56'36", long 116°11'48"(revised), in NE¹/₄SE¹/₄ sec.15, T.7 N., R.2 E., Boise County, Horseshoe Bend quad., Hydrologic Unit 17050122, on left bank 0.5, mi downstream from Porter Creek, 0.6 mi upstream from concrete highway bridge on State Highway 55, 2 mi north of Horseshoe Bend, and at mile 60.8.

DRAINAGE AREA.--2,230 mi², approximately. Mean elevation, 5,850 ft.

PERIOD OF RECORD.--February 1906 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 533: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,625.61 ft above NGVD of 1929. Prior to Nov. 23, 1912, nonrecording gage at site 1.8 mi upstream at different datum. Nov. 23, 1912 to Apr. 16, 1953, water-stage recorder at site 1,000 ft downstream at datum 2.1 ft lower.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (sta 13236000), Cascade Reservoir, 51.9 mi upstream, beginning November 1947 and other reservoirs upstream. Diversions above station for irrigation of about 55,100 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s Dec. 23, 1964, gage height, 16.35 ft; minimum daily, 260 ft³/s Nov. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,600 ft³/s May 31, gage height, 12.36 ft; minimum, 629 ft³/s Dec. 9, gage height, 2.45 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1480	728	811	1070	4150	1130	2820	4140	12100	4600	3480	2830
2	1400	698	801	1030	3590	1090	3330	3990	10700	4570	3620	2650
3	1380	745	784	1010	2680	1130	3030	4080	9820	4510	3670	2200
4	e1400	779	792	1040	2220	1110	2730	4880	9210	4410	3710	2160
5	1380	807	817	1120	1890	1080	2530	5100	9050	4310	3670	2150
6	1370	843	794	1050	1670	1090	2710	5150	9250	4240	3620	2150
7	1360	863	767	936	1520	1130	3040	5870	9840	4180	3740	2120
8	1340	960	696	897	1550	1160	3020	5810	10300	4120	3810	2110
9	1300	1050	670	890	1460	1190	3100	5680	10300	4070	3790	2070
10	1300	1010	761	976	1450	1250	3430	5530	10200	3940	3770	2060
11	1300	929	848	1050	1340	1450	3910	5690	9820	3850	3850	1990
12	1300	891	867	1000	1240	1630	4540	5960	9290	3780	3930	1880
13	1310	904	857	1060	1290	1910	4840	6530	8880	3710	3950	1810
14	1280	906	978	1190	1380	1970	4890	6490	8250	3680	3720	1750
15	1060	892	1180	1560	1370	2240	4530	6920	7890	3640	3420	1710
16	815	869	1090	1350	1420	2690	4190	7570	7610	3580	3420	1720
17	784	870	1050	1190	1560	2440	3990	6880	7150	3530	3390	1700
18	776	866	905	1080	1400	2210	3890	6270	7110	3560	3390	1700
19	785	855	853	1020	1310	2110	3690	5810	7270	3600	3390	1720
20	781	860	834	1020	1280	2100	3700	5610	7260	3570	3200	1660
21	780	870	885	1050	1280	2050	3870	5590	7060	3530	2990	1610
22	782	892	883	1060	1320	2260	4090	5720	6330	3500	3060	1610
23	807	899	825	1160	1270	5290	4590	6480	5760	3470	3350	1610
24	835	910	732	1320	1170	4320	4590	8440	5330	3450	3140	1600
25	812	857	800	1230	1060	3540	5030	9900	5050	3470	3050	1590
26	792	741	751	1260	1080	3670	4930	10400	4870	3460	3030	1550
27	791	760	809	2890	1190	3380	4570	10600	4770	3510	3050	1470
28	797	791	1130	3740	1150	2830	4290	11000	4760	3430	3020	1450
29	805	797	1450	2370	---	2570	4120	12100	4720	3340	2930	1440
30	814	804	1170	2340	---	2440	3970	13400	4690	3300	2870	1470
31	800	---	1020	3450	---	2440	---	13900	---	3270	2850	---
TOTAL	32716	25646	27610	43409	45290	66900	115960	221490	234640	117180	105880	55540
MEAN	1055	855	891	1400	1618	2158	3865	7145	7821	3780	3415	1851
MAX	1480	1050	1450	3740	4150	5290	5030	13900	12100	4600	3950	2830
MIN	776	698	670	890	1060	1080	2530	3990	4690	3270	2850	1440
AC-FT	64890	50870	54760	86100	89830	132700	230000	439300	465400	232400	210000	110200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2003, BY WATER YEAR (WY)

MEAN	1313	1236	1387	1420	1609	2441	5119	7929	7870	3626	2549	2056
MAX	2248	3618	3996	7281	6208	6919	13610	16060	16090	8235	3774	3374
(WY)	1984	1910	1996	1997	1997	1910	1943	1928	1927	1916	1993	1982
MIN	541	583	597	602	647	794	1650	2053	1765	907	643	610
(WY)	1936	1932	1936	1932	1932	1977	1991	1977	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1907 - 2003
ANNUAL TOTAL	861199	1092261	
ANNUAL MEAN	2359	2992	3218
HIGHEST ANNUAL MEAN			5501
LOWEST ANNUAL MEAN			1463
HIGHEST DAILY MEAN	9900	13900	21700
LOWEST DAILY MEAN	577	670	260
ANNUAL SEVEN-DAY MINIMUM	757	757	445
ANNUAL RUNOFF (AC-FT)	1708000	2166000	2332000
10 PERCENT EXCEEDS	4460	6290	7770
50 PERCENT EXCEEDS	1670	2120	1970
90 PERCENT EXCEEDS	808	813	850

e Estimated

PAYETTE RIVER BASIN

13250000 PAYETTE RIVER NEAR LETHA, ID

LOCATION.--Lat 43°53'46", long 116°37'40", (NAD83), in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.7 N., R.2 W., Gem County, Letha quad., Hydrologic Unit 17050122, on left bank just upstream from county road bridge, 1.1 mi east of Letha, and at mile 25.

DRAINAGE AREA.--2,760 mi², approximately.

PERIOD OF RECORD.--October 1978 to September 1983, October 1983 to September 1986 (irrigation season only), May 1994 to current year. July to November 1952, March to November 1953, at site 0.6 mi upstream not equivalent due to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 2,280 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir, Cascade Reservoir, and to some extent by Black Canyon Dam about 13.5 mi upstream. Diversions above station for irrigation of about 190,000 acres, of which 50,000 acres are located below station. About 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 27,000 ft³/s Jan. 2, 1997; minimum, 51 ft³/s June 11, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft³/s May 31, gage height, 14.67 ft; minimum daily, 151 ft³/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	992	1160	1440	4900	1330	3070	2750	12000	2500	1120	869
2	238	1120	972	1240	4900	1320	3980	2570	10500	2310	1350	899
3	220	987	943	1070	3570	1320	3790	2550	9260	2330	1420	562
4	192	970	938	1080	2900	1360	3280	3420	8580	2180	1480	357
5	190	991	971	1110	2520	1270	2740	4520	8090	2100	1450	334
6	191	1020	1190	1140	2090	1270	2690	4050	8180	2030	1370	347
7	187	1060	1030	978	1880	1310	3030	4640	8600	1980	1380	337
8	177	1120	633	1000	1750	1380	2870	4740	9250	1880	1550	313
9	211	1270	677	965	1860	1310	2810	4610	9260	1860	1580	352
10	207	1280	789	1140	1710	1460	3060	4470	9030	1760	1570	373
11	166	1200	957	1170	1670	1570	3390	4480	8660	1660	1550	447
12	160	1100	991	1190	1480	1750	4040	4890	8010	1540	1710	403
13	184	1080	551	1240	1490	2040	4440	5770	7480	1460	1700	363
14	175	1120	560	1520	1760	2230	4700	5560	6870	1460	1710	358
15	438	1120	576	2070	1720	2490	4420	5800	6180	1440	1220	288
16	619	1060	587	1890	1690	3000	3760	6520	5940	1360	1220	284
17	433	1070	754	1500	2310	3030	3410	6320	5440	1330	1240	270
18	504	1070	796	1380	1910	2690	3280	5330	5400	1300	1230	277
19	562	1060	712	1230	1760	2490	3090	4740	5660	1350	1210	314
20	568	1100	644	1210	1660	2450	2870	4370	5680	1360	1190	320
21	544	976	640	1260	1610	2370	2860	4180	5430	1310	879	263
22	673	1050	806	1270	1670	2400	2990	4250	4630	1260	908	257
23	1020	1210	912	1390	1630	5170	3330	4750	3810	1190	1120	245
24	1020	1200	935	1520	1490	5770	3410	6440	3340	1250	1160	231
25	1000	1180	892	1580	1340	4340	3630	8470	2990	1170	996	276
26	961	1120	955	1610	1300	4660	3810	9320	2770	1260	974	281
27	942	1020	921	2590	1390	4560	3420	9600	2670	1390	977	216
28	977	1080	1050	5450	1440	3700	3010	9690	2640	1370	1000	177
29	986	1110	1610	3310	---	3300	2790	10500	2570	1260	979	171
30	996	1180	1620	2900	---	3080	2510	11700	2480	1160	912	151
31	1020	---	1400	4120	---	2960	---	12900	---	1110	860	---
TOTAL	16085	32916	28172	52563	57400	79380	100480	183900	191400	48920	39015	10335
MEAN	519	1097	909	1696	2050	2561	3349	5932	6380	1578	1259	344
MAX	1020	1280	1620	5450	4900	5770	4700	12900	12000	2500	1710	899
MIN	160	970	551	965	1300	1270	2510	2550	2480	1110	860	151
AC-FT	31900	65290	55880	104300	113900	157500	199300	364800	379600	97030	77390	20500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2003, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	961	1477	1978	2362	2999	4008	5247	6365	6294	1959	943	836													
MAX	1829	2929	4185	8417	6722	6786	8211	10290	11050	5899	1524	1664													
(WY)	1984	1984	1996	1997	1997	1997	1996	1982	1982	1983	1983	1986													
MIN	503	879	800	1033	1129	1629	1175	1170	340	145	145	145													
(WY)	2000	1980	1980	2001	2001	2001	2001	2001	1994	2001	2001	1994													

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1979 - 2003
ANNUAL TOTAL	581817	840566	
ANNUAL MEAN	1594	2303	2958
HIGHEST ANNUAL MEAN			4743
LOWEST ANNUAL MEAN			840
HIGHEST DAILY MEAN	11400	Apr 15	27000
LOWEST DAILY MEAN	152	Sep 27	63
ANNUAL SEVEN-DAY MINIMUM	183	Oct 8	73
ANNUAL RUNOFF (AC-FT)	1154000	1667000	2143000
10 PERCENT EXCEEDS	3260	5360	7690
50 PERCENT EXCEEDS	1140	1380	1630
90 PERCENT EXCEEDS	415	358	557

PAYETTE RIVER BASIN

13251000 PAYETTE RIVER NEAR PAYETTE, ID

LOCATION.--Lat 44°02'33", long 116°55'27", in NE¹/₄SE¹/₄SW¹/₄ sec.10, T.8 N., R.5 W., Payette County, Payette quad., Hydrologic Unit 17050122, on right bank just upstream from bridge on U.S. Highway 95, 1.8 mi south of Payette, and at mile 4.1.

DRAINAGE AREA.--3,240 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1935 to current year. Records for January 1895 to July 1897 (published as "at Payette" in 18th and 19th Annual Reports) have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1397: 1949(m), 1952, 1953-54(m).

GAGE.--Water-stage recorder. Datum of gage is 2,138.44 ft above NGVD of 1929. Aug. 1, 1935 to Aug. 7, 1939, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir, Cascade Reservoir beginning November 1947, other smaller reservoirs, and to some extent by Black Canyon Dam 34.6 mi upstream, where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 196,000 acres, of which about 100 acres are irrigated by withdrawals from ground water, about 5,100 acres are located below station, and about 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 32,000 ft³/s Jan. 2, 1997; minimum, 17 ft³/s June 25, 2001, gage height, 3.09 ft (result of irrigation diversion upstream); minimum daily, 127 ft³/s Aug. 15, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,300 ft³/s June 1, gage height, 10.66 ft; minimum daily, 495 ft³/s Oct. 11, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	670	1300	1390	1780	4990	1530	3160	3110	13100	2640	1330	1320
2	658	1360	1230	1600	5330	1550	3970	3010	11000	2510	1630	1290
3	585	1340	1110	1310	4170	1500	4100	2980	9630	2490	1770	1030
4	598	1240	1120	1310	3300	1580	3610	3550	8740	2420	1860	683
5	587	1260	1120	1360	2910	1490	3060	4960	8130	2350	1820	600
6	569	1290	1330	1390	2510	1420	2930	4580	8050	2310	1750	654
7	574	1350	1360	1230	2200	1490	3290	4860	8350	2200	1730	685
8	521	1390	853	1150	2010	1550	3320	5260	9050	2080	1880	675
9	502	1530	792	1190	2100	1520	3080	5080	9190	2010	1940	735
10	531	1640	914	1220	1950	1590	3310	4980	9100	1900	1930	818
11	495	1550	1060	1420	1920	1730	3690	4860	8800	1770	1870	885
12	526	1430	1170	1400	1750	1900	4100	5260	8260	1740	1940	859
13	588	1380	855	1400	1670	2210	4730	5930	7660	1640	2020	780
14	622	1380	724	1750	1920	2410	4950	5980	7190	1670	2000	742
15	654	1440	715	2260	2070	2670	4730	6030	6360	1620	1610	669
16	1180	1380	712	2330	1940	3090	4150	6530	6130	1580	1470	626
17	889	1330	834	1830	2630	3350	3770	6830	5700	1520	1490	594
18	886	1330	944	1660	2290	2960	3600	5800	5360	1500	1530	613
19	985	1330	850	1530	2100	2730	3420	5290	5720	1540	1500	671
20	992	1360	833	1420	1960	2690	3170	4760	5880	1590	1470	672
21	998	1280	765	1470	1860	2610	3070	4530	5670	1540	1200	627
22	960	1180	870	1490	1900	2620	3180	4550	5140	1490	1180	590
23	1460	1440	1010	1540	1900	4090	3420	4880	4230	1420	1430	593
24	1330	1440	1100	1740	1730	6280	3660	6070	3690	1500	1650	607
25	1390	1420	1000	1850	1600	4670	3710	8230	3260	1500	1430	610
26	1340	1350	1100	1860	1520	4690	4130	9400	3040	1640	1370	635
27	1290	1270	1060	2330	1560	4950	3830	9720	2870	1910	1400	593
28	1310	1260	1130	5540	1640	4060	3400	9780	2850	1850	1400	556
29	1320	1320	1640	4010	---	3570	3130	10300	2770	1690	1410	504
30	1310	1380	1950	3240	---	3340	2920	11900	2680	1570	1390	495
31	1330	---	1730	4170	---	3210	---	13300	---	1440	1320	---
TOTAL	27650	40950	33271	59780	65430	85050	108590	192300	197600	56630	49720	21411
MEAN	892	1365	1073	1928	2337	2744	3620	6203	6587	1827	1604	714
MAX	1460	1640	1950	5540	5330	6280	4950	13300	13100	2640	2020	1320
MIN	495	1180	712	1150	1520	1420	2920	2980	2680	1420	1180	495
AC-FT	54840	81220	65990	118600	129800	168700	215400	381400	391900	112300	98620	42470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2003, BY WATER YEAR (WY)												
MEAN	1445	1652	1978	2161	2545	3377	5150	6620	6432	2002	1279	1415
MAX	2399	2896	4803	9545	7398	8793	14990	12010	13170	6348	2092	2488
(WY)	1963	1984	1965	1997	1997	1986	1943	1946	1974	1982	1976	1985
MIN	440	919	793	813	961	939	421	564	397	311	348	435
(WY)	1936	1937	1936	1937	1937	1977	1977	1977	1977	1977	2001	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1935 - 2003	
ANNUAL TOTAL	685785		938382			
ANNUAL MEAN	1879		2571		3002	
HIGHEST ANNUAL MEAN					5506	
LOWEST ANNUAL MEAN					945	
HIGHEST DAILY MEAN	9920	Apr 15	13300	May 31	32000	Jan 2 1997
LOWEST DAILY MEAN	495	Oct 11	495	Oct 11	127	Aug 15 1991
ANNUAL SEVEN-DAY MINIMUM	531	Oct 6	531	Oct 6	173	Jun 22 1994
ANNUAL RUNOFF (AC-FT)	1360000		1861000		2175000	
10 PERCENT EXCEEDS	3720		5430		7290	
50 PERCENT EXCEEDS	1390		1640		1870	
90 PERCENT EXCEEDS	746		701		846	

PAYETTE RIVER BASIN

13251000 PAYETTE RIVER NEAR PAYETTE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 -1981, 1990, 1993, April to September 1996, April to September 1997, July to September 1998, April to September 1999, November 2001 to October 2002, July to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August to September 1997, July to September 1998, May to September 1999, November 2001 to October 2002, July to September 2003 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 28.4 °C July 17, 2002; minimum, 0.0 °C Jan. 29, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.6 °C July 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUL 10...	1015	1970	125	7.8	30.0	22.2	8.1	8.3	103	400	--	--	--
AUG 05...	1025	1850	148	7.8	23.0	22.2	14	7.8	98	51470	--	--	--
SEP 02...	1450	1280	157	8.0	32.0	21.5	15	9.7	119	160	59	17.1	3.87

Date	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat unfltrd fixed end pt, mg/L (00440)	Carbonate, wat unfltrd fixed end pt, mg/L (00445)	ANC, wat unfltrd fixed end pt, mg/L as CaCO3 (00410)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
JUL 10...	--	--	--	--	--	--	--	--	--	--	<.015	.26	.226
AUG 05...	--	--	--	--	--	--	--	--	--	--	<.015	.34	.418
SEP 02...	13.8	33	1.72	94	.0	77	6.8	2.59	.4	18.1	.017	.37	.525

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
JUL 10...	.032	.072	20	106
AUG 05...	.038	.092	24	120
SEP 02...	.053	.112	27	93

< Less than
S Most probable value

PAYETTE RIVER BASIN
 13251000 PAYETTE RIVER NEAR PAYETTE, ID--Continued

Temperature, water, degrees Celsius															
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003															
DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	26.8	22.9	25.0	22.3	18.8	20.6
2	---	---	---	---	---	---	---	---	---	25.6	23.1	23.9	23.1	18.8	20.9
3	---	---	---	---	---	---	---	---	---	23.6	21.9	22.7	23.3	19.3	21.3
4	---	---	---	---	---	---	---	---	---	25.4	21.4	23.2	22.5	19.2	20.7
5	---	---	---	---	---	---	---	---	---	25.7	22.3	24.0	24.0	19.5	21.5
6	---	---	---	---	---	---	---	---	---	25.4	22.3	23.9	23.8	19.8	22.0
7	---	---	---	---	---	---	---	---	---	25.2	21.8	23.6	23.1	19.7	21.3
8	---	---	---	---	---	---	---	---	---	24.7	21.6	23.2	21.6	18.2	19.3
9	---	---	---	---	---	---	---	---	---	24.8	21.3	23.1	19.1	15.8	16.7
10	---	---	---	---	---	---	---	---	---	24.8	21.3	23.1	17.7	14.4	15.9
11	---	---	---	---	---	---	---	---	---	24.7	21.6	23.1	20.1	15.8	17.9
12	---	---	---	---	---	---	---	---	---	23.8	21.0	22.4	19.9	16.8	18.6
13	---	---	---	---	---	---	---	---	---	24.1	21.0	22.5	19.0	14.7	17.0
14	---	---	---	---	---	---	---	---	---	23.6	21.0	22.6	18.8	14.4	16.8
15	---	---	---	---	---	---	---	---	---	23.6	21.0	22.5	18.1	15.5	16.9
16	---	---	---	---	---	---	---	---	---	23.8	21.3	22.6	17.6	15.0	16.5
17	---	---	---	---	---	---	---	---	---	23.6	20.0	21.7	17.9	13.9	15.9
18	---	---	---	---	---	---	---	---	---	24.1	20.3	22.1	17.2	13.3	15.4
19	---	---	---	---	---	---	---	---	---	24.3	20.8	22.5	17.7	13.6	15.7
20	---	---	---	---	---	---	---	---	---	24.1	21.0	22.5	18.5	14.6	16.5
21	---	---	---	---	---	---	---	---	---	23.0	19.8	21.1	18.4	14.2	16.5
22	---	---	---	---	---	---	---	---	---	22.3	20.3	21.2	18.5	14.2	16.5
23	---	---	---	---	---	---	---	---	---	23.6	19.3	21.3	18.7	14.4	16.8
24	---	---	---	---	---	---	---	---	---	23.6	20.1	21.8	18.7	14.4	16.8
25	---	---	---	25.4	22.1	23.7	24.0	20.3	22.0	18.7	14.4	16.8	---	---	---
26	---	---	---	24.8	22.8	23.6	22.9	19.9	20.9	19.5	15.2	17.4	---	---	---
27	---	---	---	25.5	21.3	23.2	23.3	19.0	20.7	20.0	16.0	18.2	---	---	---
28	---	---	---	26.6	22.8	24.6	22.9	20.0	21.5	19.8	15.8	18.0	---	---	---
29	---	---	---	27.1	23.6	25.3	22.6	19.0	20.8	19.2	15.8	17.7	---	---	---
30	---	---	---	27.5	23.6	25.5	22.9	18.8	20.7	19.5	16.0	17.8	---	---	---
31	---	---	---	27.6	23.6	25.6	22.6	18.7	20.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	26.8	18.7	22.4	24.0	13.3	18.0	---	---	---

WEISER RIVER BASIN

13265500 CRANE CREEK AT MOUTH NEAR WEISER, ID

LOCATION.--Lat 44°17'29", long 116°46'56", in NE¹/₄NW¹/₄NW¹/₄ sec. 14, T.11 N., R.4 W., Washington County, Mann Creek SE quad., Hydrologic Unit 17050124, on right bank 500 ft downstream from county road bridge, about 10 mi northeast of Weiser, 12.3 mi downstream from Crane Creek Reservoir, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--288 mi².

PERIOD OF RECORD.--July to September 1920, February 1921 to September 1973, February 1981 to May 1982, May 2001 to current year.

REVISED RECORDS.--WSP 833: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,270 ft above NGVD of 1929, from topographic map. Prior to May 2001 at site 500 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Crane Creek Reservoir 12.3 mi upstream. Diversions above station for irrigation of about 820 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s Feb. 17, 1982, gage height, 7.30 ft (site and datum then in use); no flow for part of May 1, 1956, Apr. 19-21, 1967, Apr. 21-22, 1968; minimum daily, 0.11 ft³/s Apr. 20, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Dec. 3 or 4, 1910.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 593 ft³/s May 4, gage height, 4.30 ft; minimum daily, 0.36 ft³/s June 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	2.1	6.6	42	63	9.0	16	7.6	15	73	180	171
2	25	2.2	6.6	20	59	8.8	23	9.1	12	71	180	162
3	26	2.4	6.6	15	29	8.9	18	16	9.2	80	179	125
4	26	2.8	6.5	33	22	9.1	15	311	5.4	78	177	124
5	23	4.8	6.6	28	17	9.0	13	287	1.8	76	182	124
6	8.6	6.5	6.6	16	14	8.8	12	266	4.0	73	181	127
7	6.5	6.5	6.6	11	12	8.6	12	233	3.0	104	180	124
8	11	8.1	6.4	9.5	11	8.5	11	198	3.9	105	177	121
9	10	8.4	6.4	8.6	10	8.4	8.7	169	3.8	102	175	121
10	10	8.7	6.7	8.0	9.7	8.5	5.4	141	2.3	99	174	119
11	10	7.5	7.2	8.0	9.5	8.4	9.2	126	0.36	128	172	123
12	11	6.9	7.5	8.3	9.1	8.3	7.2	171	5.5	131	172	116
13	9.7	6.9	7.6	29	9.5	8.1	4.4	245	16	132	178	75
14	7.6	7.1	9.3	129	25	8.0	3.2	222	20	163	178	74
15	12	7.1	8.6	70	35	9.3	3.4	192	21	164	177	72
16	12	7.0	7.8	24	67	12	3.0	165	20	162	175	69
17	12	7.1	8.0	16	62	11	2.1	142	19	159	179	73
18	12	7.1	7.5	12	27	9.1	0.65	119	16	221	180	74
19	9.9	7.1	6.9	11	22	8.5	3.4	103	22	227	178	74
20	4.2	7.2	6.7	10	18	8.2	3.3	89	25	230	180	73
21	2.3	7.2	7.5	9.4	15	8.1	2.5	79	24	229	189	72
22	2.3	7.3	7.4	9.4	14	9.5	2.5	67	25	229	189	69
23	2.2	7.3	7.1	21	13	69	3.0	48	24	227	192	67
24	2.4	7.3	6.7	31	11	25	3.2	45	20	232	191	67
25	2.4	7.1	6.7	40	10	17	3.5	41	27	218	190	67
26	1.3	7.1	8.2	63	9.8	114	1.4	37	27	217	189	74
27	0.76	7.0	8.5	165	9.5	49	0.50	30	26	216	185	75
28	2.1	7.1	15	52	9.2	24	0.70	23	26	211	178	74
29	2.3	6.9	13	29	---	17	5.8	18	22	207	162	70
30	2.4	6.7	13	94	---	14	5.6	14	63	191	164	68
31	2.1	---	42	77	---	13	---	14	---	176	168	---
TOTAL	309.06	194.5	277.8	1099.2	622.3	538.1	202.65	3627.7	509.26	4931	5551	2844
MEAN	9.97	6.48	8.96	35.5	22.2	17.4	6.75	117	17.0	159	179	94.8
MAX	40	8.7	42	165	67	114	23	311	63	232	192	171
MIN	0.76	2.1	6.4	8.0	9.1	8.0	0.50	7.6	0.36	71	162	67
AC-FT	613	386	551	2180	1230	1070	402	7200	1010	9780	11010	5640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2003, BY WATER YEAR (WY)

	1920	1928	1936	1944	1952	1960	1968	1976	1984	1992	2000	
MEAN	17.0	10.2	34.0	92.3	181	204	113	38.9	22.2	100	140	74.0
MAX (WY)	180	63.2	330	785	1131	893	643	638	212	197	208	169
MIN (WY)	1.84	2.65	3.10	3.48	4.89	5.40	3.36	1.20	4.26	8.63	15.3	3.27

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1920 - 2003
ANNUAL TOTAL	19519.96	20706.57	
ANNUAL MEAN	53.5	56.7	82.9
HIGHEST ANNUAL MEAN			215
LOWEST ANNUAL MEAN			19.9
HIGHEST DAILY MEAN	264	311	4500
LOWEST DAILY MEAN	0.76	0.36	0.11
ANNUAL SEVEN-DAY MINIMUM	1.9	1.9	0.32
ANNUAL RUNOFF (AC-FT)	38720	41070	60090
10 PERCENT EXCEEDS	173	179	186
50 PERCENT EXCEEDS	19	16	14
90 PERCENT EXCEEDS	6.5	4.0	4.0

WEISER RIVER BASIN

13266000 WEISER RIVER NEAR WEISER, ID

LOCATION.--Lat 44°16'03", long 116°46'16", in SW¹/₄SW¹/₄NW¹/₄ sec. 24, T.11 N., R.4 W., Washington County, Mann Creek SE quad., Hydrologic Unit 17050124, on right bank, 0.25 mi upstream from county road bridge, 2.0 mi downstream from Crane Creek, 10 mi east of Weiser, and at mile 14.9.

DRAINAGE AREA.--1,460 mi², approximately.

PERIOD OF RECORD.--March 1890 to June 1891, December 1894 to October 1896, April to September 1897, March 1898 to November 1899, March 1900 to December 1904, October 1910 to December 1914, October 1952 to current year. Published as "at Weiser" prior to 1900.

REVISED RECORDS.--WSP 1347: 1895-1905, 1953(M).

GAGE.--Water-stage recorder. Datum of gage is 2,206.1 ft above NGVD of 1929. Prior to October 1952, nonrecording gages at several sites downstream within 1.5 mi of present site at various datums. October 1952 to January 1974, water-stage recorder 1,000 ft upstream at different datum. January to October 1974, nonrecording gage at nearby sites and different datums.

REMARKS.--Records good. Station equipment includes telemetry. Flow slightly regulated since 1911 by Crane Creek Reservoir 14.3 mi upstream, capacity about 51,700 acre-ft, and other small reservoirs. Diversions above station for irrigation of about 30,400 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft³/s Jan. 2, 1997, gage height, 17.20 ft. (backwater from bridge); minimum observed, 14 ft³/s Aug. 7, 1911, gage height, 2.80 ft, site and datum then in use; minimum gage height, 1.45 ft, Nov. 29, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1932, reached a discharge of about 17,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,500 ft³/s Jan. 27, gage height, 8.63 ft; minimum daily, 81 ft³/s Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	97	126	1100	3840	595	2060	1560	3180	384	265	234
2	123	88	124	747	3410	561	2620	1470	2760	339	249	228
3	122	83	123	669	2450	540	2420	1610	2530	298	241	197
4	121	93	124	982	2030	528	2240	3170	2300	279	250	198
5	115	104	128	963	1620	498	2150	3810	2170	262	256	191
6	95	107	130	859	1330	482	1960	3040	2110	248	255	185
7	88	114	122	663	1110	467	1900	2640	2090	266	250	185
8	86	139	113	514	981	451	1670	2340	2010	263	241	177
9	e84	209	101	428	896	451	1550	2080	2010	243	236	181
10	e83	211	116	448	821	478	1520	1870	1870	230	236	199
11	e81	179	115	469	755	485	1650	1790	1720	242	240	229
12	83	155	142	419	690	523	1910	2320	1550	229	245	220
13	83	142	154	682	671	637	2200	4020	1460	222	241	160
14	96	136	204	3250	1020	920	2240	3220	1380	249	233	154
15	108	132	348	3810	997	1250	2090	3070	1280	247	231	147
16	108	127	300	1910	1210	2050	1880	3040	1200	243	229	148
17	104	123	402	1310	1890	1920	1760	2770	1110	248	233	154
18	106	122	321	1010	1270	1600	1680	2460	1020	292	236	152
19	104	124	226	829	1210	1400	1520	2180	968	299	240	150
20	93	122	191	720	1080	1290	1450	1980	1030	304	239	152
21	86	121	191	645	1010	1210	1460	1870	927	319	256	148
22	85	123	187	605	971	1290	1540	1850	797	314	264	141
23	91	127	175	953	916	4210	1670	2020	738	307	259	139
24	96	128	153	1330	794	3690	1730	2370	666	313	276	134
25	96	128	148	1460	721	2850	1990	2800	590	290	283	135
26	98	121	165	2480	688	4060	1980	2930	547	300	278	136
27	99	108	158	5840	680	3230	1870	2880	478	313	271	134
28	103	111	381	4100	631	2450	1690	2920	429	331	267	135
29	102	119	1040	2540	---	2060	1580	3170	385	324	240	130
30	109	122	843	3880	---	1810	1520	3460	403	294	232	124
31	108	---	611	4170	---	1690	---	3990	---	260	236	---
TOTAL	3083	3815	7662	49785	35692	45676	55500	80700	41708	8752	7708	4997
MEAN	99.5	127	247	1606	1275	1473	1850	2603	1390	282	249	167
MAX	127	211	1040	5840	3840	4210	2620	4020	3180	384	283	234
MIN	81	83	101	419	631	451	1450	1470	385	222	229	124
AC-FT	6120	7570	15200	98750	70800	90600	110100	160100	82730	17360	15290	9910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2003, BY WATER YEAR (WY)

MEAN	185	305	613	938	1498	2414	2479	2548	1548	386	227	182
MAX	631	1446	2920	4760	5403	7196	7275	5506	5895	1053	466	406
(WY)	1963	1974	1956	1997	1982	1904	1897	1897	1896	1984	1984	1984
MIN	42.8	124	99.9	149	159	136	174	182	183	104	23.0	33.3
(WY)	1989	1995	1991	1977	1955	1977	1977	1977	1977	1977	1911	1911

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1895 - 2003	
ANNUAL TOTAL	329378		345078		1106	
ANNUAL MEAN	902		945		2016	
HIGHEST ANNUAL MEAN					1904	
LOWEST ANNUAL MEAN					136	
HIGHEST DAILY MEAN	7500		5840		31000	
LOWEST DAILY MEAN	81		81		14	
ANNUAL SEVEN-DAY MINIMUM	84		84		20	
ANNUAL RUNOFF (AC-FT)	653300		684500		801200	
10 PERCENT EXCEEDS	2300		2450		2950	
50 PERCENT EXCEEDS	340		403		380	
90 PERCENT EXCEEDS	110		114		137	

e Estimated

SNAKE RIVER MAIN STEM

13269000 SNAKE RIVER AT WEISER, ID

LOCATION.--Lat 44°14'44", long 116°58'48", in NW¼SE¼ sec.31, T.11 N., R.5 W., Washington County, Weiser South quad., Hydrologic Unit 17050124, on right bank, at upstream side of U.S. Highway 30N/95 spur bridge at Weiser, 0.7 mi downstream from Weiser River, and at mile 351.3.

DRAINAGE AREA.--69,200 mi², approximately. Mean elevation, 5,400 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Fragmentary gage-height record obtained by U.S. Weather Bureau since 1895. Monthly discharge only for October 1910, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1918. WSP 1567: 1910(M). WDR ID-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 2,086.64 ft above NGVD of 1929. Prior to Oct. 1, 1914, nonrecording gage 0.2 mi downstream at different datum. Oct. 1, 1914 to Oct. 11, 1933, nonrecording gage, and Oct. 12, 1933 to Apr. 13, 1964, water-stage recorder, at site 0.3 mi upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 3,650,000 acres, of which about 742,000 acres are irrigated by withdrawals from ground water. In addition, approximately 7,300 acres are irrigated below station by diversions from Weiser River (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,500 ft³/s Apr. 29, 1952, gage height, 14.67 ft, site and datum then in use; maximum gage height recorded, 15.55 ft, Dec. 20, 1972, backwater from ice jam; minimum, 4,390 ft³/s June 7, 1992, gage height, 1.36 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 3, 1910, reached a stage of 17.1 ft at site and datum 0.3 mi upstream, from reading on old U.S. Weather Bureau gage, discharge, 120,000 ft³/s. Flood in June 1894 was considerably higher.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,500 ft³/s May 31, gage height, 5.91 ft; minimum, 7,050 ft³/s July 23, gage height, 2.16 ft.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10300	11200	10500	12400	18000	10900	13000	12900	24400	9100	8200	9580
2	10700	11100	10400	11900	18300	10200	14200	12500	22000	8790	8330	9710
3	10900	11100	10400	10700	16000	10500	14000	12300	20000	8650	8420	9600
4	10500	10100	10800	11500	14100	10600	14000	14400	18800	8580	8720	9310
5	10300	10700	10500	11100	13900	10100	13100	17200	17500	8530	8720	9010
6	10800	10200	10600	10900	12300	10400	12400	16500	16700	8570	8800	8860
7	11500	11100	10800	10500	12200	10500	12600	16300	16800	8670	9110	9200
8	10300	11000	10200	10300	11300	10100	12700	16500	17300	8500	9040	9360
9	11100	11100	9570	10400	11500	10700	12200	16300	17400	8220	9370	9270
10	10600	10600	10000	10800	11600	10200	12500	15700	16800	7780	9210	9730
11	10900	11600	9890	10300	10900	10300	12600	15300	15400	7550	9100	9860
12	10200	11300	10300	10000	10900	10600	13200	16800	14700	7490	9060	9740
13	10200	10800	10400	10400	10700	10900	14200	20100	14400	7340	9000	9960
14	11100	11300	10000	13200	11800	11500	14600	18700	14100	7350	9230	10100
15	10400	10400	10400	15400	11700	12000	14000	18300	13400	7330	8810	10500
16	11400	10800	10200	12700	11300	13300	13000	17800	12900	7350	8830	10300
17	11300	10900	10200	12000	13500	13600	12900	17300	12500	7230	8570	10200
18	11200	10400	10100	11500	12200	13300	12600	15900	11900	7260	8940	9990
19	10700	10600	9710	11200	12100	11900	12400	15800	12300	7330	8820	10600
20	11200	10900	10200	10600	11800	12200	11900	14800	13100	7460	8930	10400
21	11100	10600	9660	10500	12500	12300	11900	14400	12900	7490	8450	10100
22	11400	10500	9850	10700	11400	12000	12300	14200	12700	7310	8480	10400
23	11500	11000	9980	11000	10400	15300	12700	14400	12000	7210	9450	10600
24	11400	10600	9800	11800	10700	18400	13000	15600	11200	7390	10500	10400
25	10900	10600	10400	11700	11100	15700	13300	18200	10400	7630	10500	10200
26	11200	10600	10500	12500	10800	16400	13600	19400	10200	8160	10600	10100
27	11500	10700	9800	16100	10500	16900	13900	19900	9770	9110	10300	9720
28	11600	10900	10500	19000	10600	15200	12800	19900	9570	9840	9860	9990
29	10600	10200	11400	16000	---	14100	12800	21000	9440	9330	9760	10100
30	10700	11300	11500	16100	---	13000	12700	22600	9390	8560	9470	9940
31	11400	---	11200	17500	---	12400	---	24700	---	8260	9470	---
TOTAL	338900	324200	319760	380700	344100	385500	391100	525700	429970	249370	284050	296830
MEAN	10930	10810	10310	12280	12290	12440	13040	16960	14330	8044	9163	9894
MAX	11600	11600	11500	19000	18300	18400	14600	24700	24400	9840	10600	10600
MIN	10200	10100	9570	10000	10400	10100	11900	12300	9390	7210	8200	8860
AC-FT	672200	643100	634200	755100	682500	764600	775700	1043000	852800	494600	563400	588800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)												
	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
MEAN	14070	15020	15610	16530	18760	22470	27380	28060	25740	11960	9787	11590
MAX	24650	27130	29180	43480	49100	55340	68570	62720	59120	29210	15410	19070
(WY)	1985	1985	1984	1997	1997	1986	1952	1984	1921	1917	1997	1997
MIN	7818	9768	9810	10310	10210	10410	7812	6898	5745	5844	5348	6319
(WY)	1925	1993	1993	1989	1935	1992	1977	1992	1992	1924	1992	1924

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1911 - 2003	
	Value	Date	Value	Date	Value	Date
ANNUAL TOTAL	4026240		4270180			
ANNUAL MEAN	11030		11700		18060	
HIGHEST ANNUAL MEAN					33750	1984
LOWEST ANNUAL MEAN					8854	1992
HIGHEST DAILY MEAN	25400	Apr 15	24700	May 31	83800	Apr 28 1952
LOWEST DAILY MEAN	7100	Jul 5	7210	Jul 23	4460	Jun 7 1992
ANNUAL SEVEN-DAY MINIMUM	7340	Jul 3	7310	Jul 13	4740	Jun 5 1992
ANNUAL RUNOFF (AC-FT)	7986000		8470000		13080000	
10 PERCENT EXCEEDS	14500		16100		34000	
50 PERCENT EXCEEDS	10600		10800		14300	
90 PERCENT EXCEEDS	8180		8810		9010	

SNAKE RIVER MAIN STEM

13269000 SNAKE RIVER AT WEISER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-1986, 1990, 1993, April to October 1996, April to September 1999, November 2001 to October 2002, July to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 1999, November 2001 to October 2002, August to September 2003 (discontinued).

INSTUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.3 °C July 13, 2002; minimum, 0.3 °C Dec. 26-28, 2001.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.6 °C Aug. 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC col/100 mL (31625)	Hardness, water, unfltrd CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUL 09...	1545	8070	366	8.7	32.0	25.6	13	8.4	112	295	--	--	--
AUG 05...	1300	8740	425	8.2	33.0	24.9	20	8.9	117	104	--	--	--
SEP 03...	1000	9650	433	8.3	25.0	21.7	15	7.5	93	115	160	35.8	16.5

Date	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat unfltrd fixed end pt, field, mg/L (00440)	Carbonate, wat unfltrd fixed end pt, field, mg/L (00445)	ANC, wat unfltrd fixed end pt, field, mg/L as CaCO3 (00410)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
JUL 09...	--	--	--	--	--	--	--	--	--	--	<.015	.71	.333
AUG 05...	--	--	--	--	--	--	--	--	--	--	E.009	.51	.829
SEP 03...	32.2	30	4.84	187	.0	155	50.7	20.5	.7	12.2	<.015	.58	.958

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)
JUL 09...	.016	.117	17	370
AUG 05...	.073	.133	24	566
SEP 03...	.039	.111	31	808

< Less than
E Estimated value

SNAKE RIVER MAIN STEM
13269000 SNAKE RIVER AT WEISER, ID--Continued

Temperature, water, degrees Celsius												
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	23.2	21.0	22.2
2	---	---	---	---	---	---	---	---	---	23.2	21.0	22.1
3	---	---	---	---	---	---	---	---	---	23.3	21.3	22.4
4	---	---	---	---	---	---	---	---	---	23.2	21.7	22.5
5	---	---	---	---	---	---	---	---	---	24.0	21.7	22.8
6	---	---	---	---	---	---	26.6	23.5	25.1	24.4	22.2	23.2
7	---	---	---	---	---	---	26.5	24.0	25.4	23.8	22.3	23.0
8	---	---	---	---	---	---	25.9	23.7	24.9	22.8	20.6	21.4
9	---	---	---	---	---	---	26.1	23.3	24.9	20.6	18.1	19.1
10	---	---	---	---	---	---	26.1	23.5	24.9	18.1	16.6	17.4
11	---	---	---	---	---	---	26.1	23.5	24.9	19.0	17.0	17.9
12	---	---	---	---	---	---	25.4	22.7	24.2	19.0	17.8	18.5
13	---	---	---	---	---	---	25.6	22.8	24.2	18.6	17.0	17.9
14	---	---	---	---	---	---	25.4	23.0	24.3	18.2	16.8	17.6
15	---	---	---	---	---	---	25.1	23.2	24.4	18.1	17.1	17.7
16	---	---	---	---	---	---	24.7	22.7	23.8	18.1	16.9	17.3
17	---	---	---	---	---	---	24.9	22.0	23.5	17.1	15.8	16.5
18	---	---	---	---	---	---	25.1	22.5	23.8	16.8	15.1	16.2
19	---	---	---	---	---	---	25.4	22.8	24.2	17.0	15.4	16.2
20	---	---	---	---	---	---	25.1	22.5	23.9	17.4	15.7	16.6
21	---	---	---	---	---	---	24.1	22.5	23.3	17.8	16.0	16.9
22	---	---	---	---	---	---	23.3	22.3	22.8	17.9	16.3	17.2
23	---	---	---	---	---	---	23.7	21.0	22.3	18.1	16.6	17.4
24	---	---	---	---	---	---	24.0	21.5	22.8	18.1	16.8	17.5
25	---	---	---	---	---	---	24.9	22.3	23.6	18.2	16.8	17.6
26	---	---	---	---	---	---	24.4	22.7	23.3	18.7	17.1	17.9
27	---	---	---	---	---	---	23.7	21.3	22.5	19.4	17.8	18.6
28	---	---	---	---	---	---	23.8	21.5	22.7	19.4	18.1	18.8
29	---	---	---	---	---	---	23.5	21.3	22.6	19.1	18.1	18.6
30	---	---	---	---	---	---	23.5	21.3	22.5	19.0	17.9	18.5
31	---	---	---	---	---	---	23.2	21.0	22.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	24.4	15.1	18.9

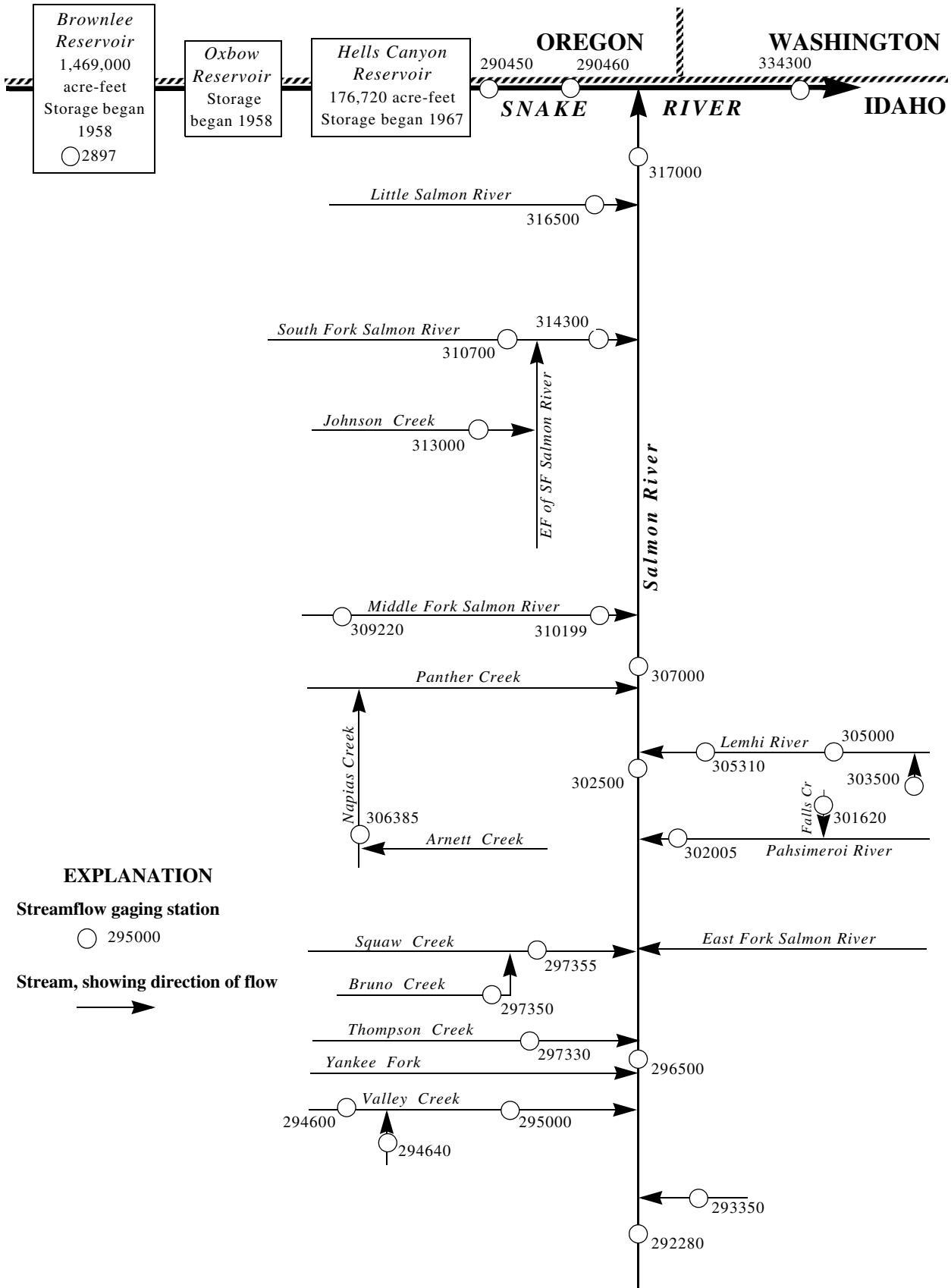


Figure 15. Schematic diagram showing gaging stations in Salmon River basin and in Snake River basin between Brownlee Reservoir and Snake River near Anatone.

SNAKE RIVER MAIN STEM

13289700 BROWNLEE RESERVOIR AT BROWNLEE DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 44°50'08", long 116°53'58", in SE¹/₄SE¹/₄ sec.2, T.17 N., R.5 W., Washington County, Brownlee Dam quad., Hydrologic Unit 17050201, at Brownlee Dam on Snake River near Idaho end of dam, 1.1 mi upstream from Wildhorse River, 3.5 mi downstream from Brownlee Creek, 10.5 mi east of Halfway, Oregon, and at mile 285.0.

DRAINAGE AREA.--72,590 mi², approximately.

PERIOD OF RECORD.--May 1958 to current year. Published as "at Idaho-Oregon State line" 1958-59.

GAGE.--Remote registering water-stage recorder. Datum of gage is NGVD of 1929 (levels by Idaho Power Co). Prior to Feb. 2, 1959, nonrecording gage or levels to water surface at present site and datum.

REMARKS.--Reservoir is formed by earthfill dam. Storage began May 5, 1958. Dam was completed in fall of 1958. Normal pool elevation, 2,077 ft. Water is used for power generation.

COOPERATION.--Reservoir elevations and capacity table furnished by Idaho Power Co. (Capacity table recomputed 1985).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,454,000 acre-ft Aug. 6, 1962, elevation, 2,078.91 ft; minimum since full capacity was attained June 23, 1959, 441,200 acre-ft Apr. 25, 1971, elevation, 1,975.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,425,000 acre-ft May 30, elevation, 2,077.35 ft; minimum, 962,400 acre-ft Oct. 11, elevation, 2,038.87 ft.

Elevation (ft)	Contents (acre-ft)
2,030.0	875,500
2,040.0	973,800
2,060.0	1,194,000
2,080.0	1,465,000

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	988100	1048000	1161000	1296000	1393000	1293000	1355000	1291000	1411000	1404000	1314000	1146000
2	984400	1053000	1164000	1305000	1397000	1291000	1349000	1294000	1404000	1405000	1311000	1137000
3	982800	1055000	1165000	1308000	1398000	1282000	1347000	1303000	1401000	1404000	1312000	1127000
4	977000	1060000	1171000	1316000	1388000	1273000	1345000	1320000	1408000	1403000	1310000	1118000
5	972600	1066000	1179000	1326000	1382000	1266000	1343000	1331000	1409000	1401000	1306000	1104000
6	979400	1071000	1181000	1328000	1372000	1260000	1339000	1340000	1408000	1401000	1296000	1097000
7	979200	1070000	1183000	1333000	1360000	1257000	1338000	1345000	1408000	1401000	1279000	1092000
8	974100	1073000	1187000	1337000	1349000	1249000	1334000	1349000	1412000	1409000	1270000	1083000
9	968400	1077000	1191000	1332000	1350000	1252000	1326000	1353000	1412000	1409000	1259000	1081000
10	963700	1082000	1197000	1331000	1352000	1252000	1322000	1357000	1414000	1405000	1250000	1085000
11	963100	1084000	1200000	1335000	1344000	1246000	1317000	1364000	1412000	1396000	1236000	1078000
12	968700	1093000	1204000	1339000	1338000	1241000	1320000	1359000	1412000	1391000	1232000	1075000
13	972900	1100000	1208000	1343000	1333000	1244000	1331000	1367000	1408000	1392000	1232000	1073000
14	973300	1103000	1213000	1352000	1332000	1249000	1334000	1369000	1409000	1395000	1224000	1073000
15	977600	1106000	1214000	1364000	1335000	1257000	1333000	1374000	1414000	1391000	1216000	1064000
16	980300	1108000	1221000	1364000	1339000	1270000	1329000	1377000	1412000	1388000	1216000	1063000
17	986400	1113000	1226000	1362000	1342000	1270000	1326000	1376000	1406000	1385000	1213000	1058000
18	991300	1114000	1230000	1361000	1340000	1266000	1327000	1380000	1404000	1380000	1202000	1049000
19	994100	1125000	1230000	1363000	1333000	1264000	1328000	1389000	1411000	1378000	1197000	1039000
20	995100	1129000	1235000	1359000	1328000	1269000	1326000	1394000	1410000	1372000	1190000	1032000
21	1005000	1125000	1240000	1355000	1326000	1272000	1317000	1396000	1417000	1363000	1189000	1025000
22	1008000	1131000	1241000	1348000	1318000	1280000	1308000	1394000	1415000	1351000	1188000	1013000
23	1012000	1133000	1245000	1352000	1317000	1295000	1303000	1390000	1406000	1343000	1188000	1003000
24	1018000	1139000	1249000	1351000	1310000	1316000	1302000	1389000	1405000	1341000	1189000	995100
25	1022000	1142000	1254000	1358000	1304000	1327000	1302000	1399000	1398000	1339000	1174000	983500
26	1024000	1145000	1255000	1368000	1302000	1336000	1301000	1412000	1399000	1333000	1165000	976000
27	1025000	1153000	1261000	1382000	1295000	1343000	1301000	1419000	1398000	1339000	1158000	973800
28	1033000	1155000	1263000	1390000	1293000	1353000	1297000	1417000	1400000	1340000	1155000	974300
29	1035000	1160000	1269000	1394000	---	1357000	1295000	1420000	1402000	1338000	1152000	972100
30	1037000	1161000	1278000	1394000	---	1360000	1287000	1422000	1402000	1330000	1150000	966900
31	1044000	---	1288000	1396000	---	1357000	---	1409000	---	1325000	1151000	---
MAX	1044000	1161000	1288000	1396000	1398000	1360000	1355000	1422000	1417000	1409000	1314000	1146000
MIN	963100	1048000	1161000	1296000	1293000	1241000	1287000	1291000	1398000	1325000	1150000	966900
†	2046.70	2057.17	2067.46	2075.34	2067.84	2072.55	2067.39	2076.21	2075.79	2070.25	2056.32	2039.32
‡	48100	117000	127000	108000	-103000	64000	-70000	122000	-7000	-77000	-174000	-184100
CAL YR 2002	MAX 1413000	MIN 932900	‡ -50000									
WTR YR 2003	MAX 1422000	MIN 963100	‡ -29000									

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

SALMON RIVER BASIN

13292280 SALMON RIVER AT POLE CREEK ROAD ABOVE DIVERSION NEAR OBSIDIAN, ID

LOCATION.--Lat 43°54'07", long 114°47'24", (NAD83), in NE¹/₄SW¹/₄SW¹/₄ sec.26, T.7 N., R.14 E., Custer County, Alturas Lake quad., Hydrologic Unit 17060201, Sawtooth National Forest, on right bank, at Pole Creek road, approximately 13 mi south of Obsidian, and approximately 25 mi south of Stanley.

DRAINAGE AREA.--29.1 mi², mean elevation 8,250 ft.

PERIOD OF RECORD.--May to September 2003 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period October to September, 250 ft³/s May 31; minimum, 6.2 ft³/s Sept. 12, 20, 21, gage height, 1.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e50	e220	36	12	7.1
2	---	---	---	---	---	---	---	e50	e190	34	12	7.0
3	---	---	---	---	---	---	---	e60	e170	32	13	7.3
4	---	---	---	---	---	---	---	e65	e160	31	13	7.1
5	---	---	---	---	---	---	---	e55	e140	30	12	7.3
6	---	---	---	---	---	---	---	e48	139	28	11	7.8
7	---	---	---	---	---	---	---	e46	143	27	11	7.3
8	---	---	---	---	---	---	---	e48	143	26	10	7.7
9	---	---	---	---	---	---	---	e48	150	24	9.8	7.4
10	---	---	---	---	---	---	---	e46	144	23	9.3	7.4
11	---	---	---	---	---	---	---	e50	131	22	8.9	7.1
12	---	---	---	---	---	---	---	e55	117	22	8.7	6.8
13	---	---	---	---	---	---	---	e55	108	21	8.5	6.8
14	---	---	---	---	---	---	---	e60	105	20	8.2	6.8
15	---	---	---	---	---	---	---	e70	104	19	8.8	6.7
16	---	---	---	---	---	---	---	e85	102	18	8.9	6.7
17	---	---	---	---	---	---	---	e80	101	17	8.4	6.8
18	---	---	---	---	---	---	---	e75	100	17	8.3	7.1
19	---	---	---	---	---	---	---	e65	97	16	8.1	7.0
20	---	---	---	---	---	---	---	e70	94	16	7.8	6.9
21	---	---	---	---	---	---	---	78	80	15	7.8	7.0
22	---	---	---	---	---	---	---	110	67	14	9.3	7.0
23	---	---	---	---	---	---	---	132	60	14	11	6.9
24	---	---	---	---	---	---	---	148	54	14	8.8	7.0
25	---	---	---	---	---	---	---	154	48	14	8.2	6.9
26	---	---	---	---	---	---	---	159	45	15	7.9	6.9
27	---	---	---	---	---	---	---	e160	43	15	8.0	6.8
28	---	---	---	---	---	---	---	e170	43	13	7.6	6.7
29	---	---	---	---	---	---	---	e200	41	13	7.5	6.7
30	---	---	---	---	---	---	---	e230	39	12	7.4	6.6
31	---	---	---	---	---	---	---	e250	---	12	7.2	---
TOTAL	---	---	---	---	---	---	---	2972	3178	630	288.4	210.6
MEAN	---	---	---	---	---	---	---	95.9	106	20.3	9.30	7.02
MAX	---	---	---	---	---	---	---	250	220	36	13	7.8
MIN	---	---	---	---	---	---	---	46	39	12	7.2	6.6
AC-FT	---	---	---	---	---	---	---	5890	6300	1250	572	418

e Estimated

SALMON RIVER BASIN

13292380 POLE CREEK BELOW POLE CREEK RANGER STATION NEAR OBSIDIAN, ID

LOCATION.--Lat 43°54'36", long 114°45'24", (NAD83), in SW¹/₄ NE¹/₄ NE¹/₄ sec.25, T.7 N., R.14 E., Custer County, Alturas Lake quad., Hydrologic Unit 17060201, Sawtooth National Forest, on right bank, at Pole Creek Road, approximately 2 mi east of Highway 75, and approximately 25 mi south of Stanley.

DRAINAGE AREA.--18.5 mi², mean elevation, 8,480 ft.

PERIOD OF RECORD.--June to September 2003 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 7,280 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period June to September, 120 ft³/s June 1; minimum daily, 22 ft³/s Sept. 27-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e120	37	27	23
2	---	---	---	---	---	---	---	---	e110	36	27	23
3	---	---	---	---	---	---	---	---	e95	35	28	23
4	---	---	---	---	---	---	---	---	e85	35	28	24
5	---	---	---	---	---	---	---	---	e80	34	27	25
6	---	---	---	---	---	---	---	---	86	34	27	25
7	---	---	---	---	---	---	---	---	89	34	27	25
8	---	---	---	---	---	---	---	---	90	33	27	25
9	---	---	---	---	---	---	---	---	92	33	27	25
10	---	---	---	---	---	---	---	---	90	32	27	26
11	---	---	---	---	---	---	---	---	84	32	27	26
12	---	---	---	---	---	---	---	---	76	32	27	25
13	---	---	---	---	---	---	---	---	70	31	26	25
14	---	---	---	---	---	---	---	---	63	31	26	25
15	---	---	---	---	---	---	---	---	57	31	27	25
16	---	---	---	---	---	---	---	---	52	31	27	25
17	---	---	---	---	---	---	---	---	54	31	27	25
18	---	---	---	---	---	---	---	---	58	31	27	25
19	---	---	---	---	---	---	---	---	60	30	27	24
20	---	---	---	---	---	---	---	---	61	30	27	24
21	---	---	---	---	---	---	---	---	50	30	27	24
22	---	---	---	---	---	---	---	---	45	29	29	23
23	---	---	---	---	---	---	---	---	42	29	25	23
24	---	---	---	---	---	---	---	---	41	30	24	23
25	---	---	---	---	---	---	---	---	39	30	24	23
26	---	---	---	---	---	---	---	---	38	31	24	23
27	---	---	---	---	---	---	---	---	37	30	24	22
28	---	---	---	---	---	---	---	---	37	28	23	22
29	---	---	---	---	---	---	---	---	37	28	23	22
30	---	---	---	---	---	---	---	---	37	27	23	22
31	---	---	---	---	---	---	---	---	---	27	23	---
TOTAL	---	---	---	---	---	---	---	---	1975	972	809	720
MEAN	---	---	---	---	---	---	---	---	65.8	31.4	26.1	24.0
MAX	---	---	---	---	---	---	---	---	120	37	29	26
MIN	---	---	---	---	---	---	---	---	37	27	23	22
AC-FT	---	---	---	---	---	---	---	---	3920	1930	1600	1430

e Estimated

SALMON RIVER BASIN

13293350 FOURTH OF JULY CREEK ABOVE DIVERSIONS NEAR OBSIDIAN, ID

LOCATION.--Lat 44°02'26", long 114°45'21", (NAD83), in SE¹/₄NE¹/₄NE¹/₄ sec.12, T.8 N., R.14 E., Custer County, Obsidian quad., Hydrologic Unit 17060201, Sawtooth National Forest, on left bank at mile 4.8, approximately 15 mi south of Stanley and 5 mi east of Highway 75, on a gravel road.

DRAINAGE AREA.--15.8 mi², mean elevation 8,930 ft.

PERIOD OF RECORD.--May to September 2003 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 7,460 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period June to September, 160 ft³/s June 1; minimum, 4.2 ft³/s Sept. 1, 2, 25-30, gage height, 2.21 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e160	26	7.8	4.8
2	---	---	---	---	---	---	---	---	e140	24	7.8	4.7
3	---	---	---	---	---	---	---	---	e110	23	8.5	4.8
4	---	---	---	---	---	---	---	---	e95	22	9.4	4.8
5	---	---	---	---	---	---	---	---	e90	21	8.0	5.0
6	---	---	---	---	---	---	---	---	88	20	7.7	5.5
7	---	---	---	---	---	---	---	---	87	18	7.3	5.3
8	---	---	---	---	---	---	---	---	92	17	7.0	5.5
9	---	---	---	---	---	---	---	---	96	17	6.8	5.4
10	---	---	---	---	---	---	---	---	87	16	6.6	5.4
11	---	---	---	---	---	---	---	---	80	15	6.5	5.2
12	---	---	---	---	---	---	---	---	74	15	6.3	4.9
13	---	---	---	---	---	---	---	---	70	14	6.2	5.0
14	---	---	---	---	---	---	---	---	68	14	6.1	4.9
15	---	---	---	---	---	---	---	---	67	13	6.1	4.8
16	---	---	---	---	---	---	---	---	64	13	6.5	4.9
17	---	---	---	---	---	---	---	---	63	12	5.8	5.4
18	---	---	---	---	---	---	---	---	59	12	5.6	5.4
19	---	---	---	---	---	---	---	---	53	12	5.5	5.3
20	---	---	---	---	---	---	---	---	52	12	5.2	5.0
21	---	---	---	---	---	---	---	---	45	11	5.3	4.9
22	---	---	---	---	---	---	---	---	41	10	6.0	4.8
23	---	---	---	---	---	---	---	---	38	9.8	8.1	4.8
24	---	---	---	---	---	---	---	---	35	9.5	5.9	4.7
25	---	---	---	---	---	---	---	---	32	9.6	5.6	4.6
26	---	---	---	---	---	---	---	---	31	10	5.3	4.5
27	---	---	---	---	---	---	---	---	29	9.8	5.7	4.5
28	---	---	---	---	---	---	---	---	28	9.0	5.3	4.4
29	---	---	---	---	---	---	---	---	27	8.7	5.2	4.4
30	---	---	---	---	---	---	---	---	26	8.3	5.1	4.4
31	---	---	---	---	---	---	---	---	---	8.0	4.8	---
TOTAL	---	---	---	---	---	---	---	---	2027	439.7	199.0	148.0
MEAN	---	---	---	---	---	---	---	---	67.6	14.2	6.42	4.93
MAX	---	---	---	---	---	---	---	---	160	26	9.4	5.5
MIN	---	---	---	---	---	---	---	---	26	8.0	4.8	4.4
AC-FT	---	---	---	---	---	---	---	---	4020	872	395	294

e Estimated

SALMON RIVER BASIN

13294600 VALLEY CREEK ABOVE DIVERSIONS NEAR STANLEY, ID

LOCATION.--Lat 44°18'57", long 115°04'01", (NAD83), in SE¹/₄NW¹/₄NE¹/₄ sec.4, T.11 N., R.12 E., Custer County, Elk Meadow quad., Hydrologic Unit 17060201, Challis National Forest, on right bank, approximately 9 mi north of Stanley.

DRAINAGE AREA.--26.7 mi², mean elevation, 7,690 ft.

PERIOD OF RECORD.--May to September 2003 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 6,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges and discharges May 21 to June 13, which are fair. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 294 ft³/s May 31, gage height, 8.76 ft; minimum daily, 11 ft³/s Sept. 24-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e55	237	34	14	13
2	---	---	---	---	---	---	---	e55	208	32	14	12
3	---	---	---	---	---	---	---	e65	178	31	16	12
4	---	---	---	---	---	---	---	e70	161	29	16	12
5	---	---	---	---	---	---	---	e60	144	28	16	12
6	---	---	---	---	---	---	---	e55	135	28	15	13
7	---	---	---	---	---	---	---	e48	132	27	14	12
8	---	---	---	---	---	---	---	e50	127	27	14	13
9	---	---	---	---	---	---	---	e50	117	26	14	13
10	---	---	---	---	---	---	---	e48	106	25	14	13
11	---	---	---	---	---	---	---	e50	99	24	13	13
12	---	---	---	---	---	---	---	e55	89	23	13	13
13	---	---	---	---	---	---	---	e60	86	22	13	12
14	---	---	---	---	---	---	---	e65	81	22	13	12
15	---	---	---	---	---	---	---	e75	74	21	13	12
16	---	---	---	---	---	---	---	e85	68	20	14	12
17	---	---	---	---	---	---	---	e80	64	20	13	12
18	---	---	---	---	---	---	---	e75	62	19	13	12
19	---	---	---	---	---	---	---	e70	60	19	13	12
20	---	---	---	---	---	---	---	e70	62	19	12	12
21	---	---	---	---	---	---	---	86	55	18	13	12
22	---	---	---	---	---	---	---	100	53	17	14	12
23	---	---	---	---	---	---	---	118	50	17	19	12
24	---	---	---	---	---	---	---	145	48	17	14	11
25	---	---	---	---	---	---	---	171	45	17	13	11
26	---	---	---	---	---	---	---	177	42	17	13	11
27	---	---	---	---	---	---	---	183	41	16	14	11
28	---	---	---	---	---	---	---	197	39	16	13	11
29	---	---	---	---	---	---	---	232	37	15	13	11
30	---	---	---	---	---	---	---	265	35	15	13	11
31	---	---	---	---	---	---	---	267	---	15	13	---
TOTAL	---	---	---	---	---	---	---	3182	2735	676	429	360
MEAN	---	---	---	---	---	---	---	103	91.2	21.8	13.8	12.0
MAX	---	---	---	---	---	---	---	267	237	34	19	13
MIN	---	---	---	---	---	---	---	48	35	15	12	11
AC-FT	---	---	---	---	---	---	---	6310	5420	1340	851	714

e Estimated

SALMON RIVER BASIN

13294640 ELK CREEK ABOVE DIVERSIONS NEAR STANLEY, ID

LOCATION.--Lat 44°17'13", long 115°04'16", in SE¹/₄NW¹/₄NW¹/₄ sec.16, T.11 N., R.12 E., Custer County, Elk Meadow quad., Hydrologic Unit 17060201, Challis National Forest, approximately 2 mi upstream from State Highway 21, approximately 3 mi upstream from the mouth, and 8.2 mi northwest of Stanley.

DRAINAGE AREA.--19.1 mi². Mean elevation, 7,520 ft.

PERIOD OF RECORD.--June to September 2003 (seasonal records only) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,650 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 227 ft³/s June 10, gage height, 2.67 ft; minimum, 13 ft³/s Sept. 25-30; minimum gage height, 1.14 ft, Sept. 27, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e280	85	22	16
2	---	---	---	---	---	---	---	---	e240	80	22	15
3	---	---	---	---	---	---	---	---	e220	75	26	15
4	---	---	---	---	---	---	---	---	e200	70	29	15
5	---	---	---	---	---	---	---	---	188	66	24	15
6	---	---	---	---	---	---	---	---	183	62	23	16
7	---	---	---	---	---	---	---	---	190	58	22	17
8	---	---	---	---	---	---	---	---	196	56	21	17
9	---	---	---	---	---	---	---	---	204	52	20	16
10	---	---	---	---	---	---	---	---	207	49	20	17
11	---	---	---	---	---	---	---	---	193	46	19	16
12	---	---	---	---	---	---	---	---	175	43	19	15
13	---	---	---	---	---	---	---	---	166	41	19	15
14	---	---	---	---	---	---	---	---	157	39	18	15
15	---	---	---	---	---	---	---	---	157	37	19	15
16	---	---	---	---	---	---	---	---	143	36	19	15
17	---	---	---	---	---	---	---	---	147	34	17	15
18	---	---	---	---	---	---	---	---	160	33	17	15
19	---	---	---	---	---	---	---	---	164	32	17	15
20	---	---	---	---	---	---	---	---	168	31	17	15
21	---	---	---	---	---	---	---	---	151	30	17	15
22	---	---	---	---	---	---	---	---	124	28	19	14
23	---	---	---	---	---	---	---	---	105	27	25	14
24	---	---	---	---	---	---	---	---	93	27	19	14
25	---	---	---	---	---	---	---	---	83	27	18	14
26	---	---	---	---	---	---	---	---	78	27	17	14
27	---	---	---	---	---	---	---	---	78	27	18	14
28	---	---	---	---	---	---	---	---	83	25	17	14
29	---	---	---	---	---	---	---	---	86	24	16	14
30	---	---	---	---	---	---	---	---	87	23	16	14
31	---	---	---	---	---	---	---	---	---	23	16	---
TOTAL	---	---	---	---	---	---	---	---	4706	1313	608	451
MEAN	---	---	---	---	---	---	---	---	157	42.4	19.6	15.0
MAX	---	---	---	---	---	---	---	---	280	85	29	17
MIN	---	---	---	---	---	---	---	---	78	23	16	14
AC-FT	---	---	---	---	---	---	---	---	9330	2600	1210	895

e Estimated

SALMON RIVER BASIN

13295000 VALLEY CREEK AT STANLEY, ID

LOCATION.--Lat 44°13'21", long 114°55'52"(revised), in SE¼NW¼SW¼ sec.3, T.10 N., R.13 E., Custer County, Stanley quad., Hydrologic Unit 17060201, Challis National Forest, on left bank at mile 0.2, 0.5 mi northeast of Stanley, and 0.8 mi southwest of Lower Stanley.

DRAINAGE AREA.--147 mi². Mean elevation, 7,400 ft.

PERIOD OF RECORD.--December 1910 to April 1911 (gage heights only), May 1911 to October 1913, May 1921 to December 1971, April to September 1972, October 1992 to current year.

REVISED RECORDS.--WSP 362: 1911-12. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,221.81 ft above NGVD of 1929. Prior to May 28, 1911, nonrecording gage at site 0.2 mi upstream, and May 28, 1911 to Oct. 31, 1913, at site 0.8 mi upstream, at different datums. May 2, 1921 to Apr. 30, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 3,000 acres (1966 determination). Water-quality records for water years 1959, 1971-72 are published in reports of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s May 24, 1956; maximum gage height, 4.4 ft, May 29, 1921; minimum daily, 34 ft³/s Aug. 28, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	0845	*1,400	*3.26	No other peak greater than base discharge.			

Minimum daily, 49 ft³/s Nov. 1.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	49	65	77	167	68	144	243	1220	375	106	75
2	63	58	63	71	172	70	145	241	1080	361	105	73
3	63	61	63	73	151	64	124	314	994	345	113	70
4	63	62	64	73	138	64	113	326	903	324	127	70
5	62	60	64	75	108	67	108	267	834	306	114	69
6	61	63	55	73	103	63	105	232	807	289	109	74
7	61	63	e55	72	95	65	100	221	817	274	104	76
8	61	66	e55	74	94	66	106	225	838	264	98	80
9	62	68	59	80	95	67	133	230	862	255	93	78
10	62	69	61	84	97	70	173	213	881	244	91	80
11	61	68	66	85	88	72	218	228	843	231	89	83
12	59	64	66	85	81	79	262	259	770	221	85	79
13	60	75	64	79	82	89	289	287	732	214	79	78
14	61	71	70	73	84	125	257	299	702	206	76	80
15	62	63	75	72	80	130	230	344	692	197	78	79
16	62	66	68	75	80	133	220	398	654	186	86	78
17	61	71	71	71	79	126	220	378	656	180	79	78
18	60	61	68	68	76	114	223	354	699	176	79	79
19	59	73	64	68	74	108	224	319	723	169	76	80
20	60	70	72	73	76	106	267	326	767	166	75	79
21	63	71	71	68	74	101	302	346	691	157	73	78
22	66	70	70	66	74	118	340	397	579	150	90	77
23	79	75	67	75	70	160	356	482	489	144	127	76
24	74	72	63	70	64	139	342	602	426	144	96	71
25	66	53	74	69	e60	128	350	737	381	142	88	71
26	62	62	81	73	e60	122	278	835	355	141	85	70
27	63	63	85	104	e65	107	241	857	350	150	84	70
28	68	63	99	102	71	96	243	893	357	138	81	72
29	66	64	90	98	---	96	251	1010	368	131	80	73
30	66	65	86	105	---	99	268	1200	379	123	79	73
31	56	---	75	125	---	109	---	1350	---	114	77	---
TOTAL	1956	1959	2149	2456	2558	3021	6632	14413	20849	6517	2822	2269
MEAN	63.1	65.3	69.3	79.2	91.4	97.5	221	465	695	210	91.0	75.6
MAX	79	75	99	125	172	160	356	1350	1220	375	127	83
MIN	56	49	55	66	60	63	100	213	350	114	73	69
AC-FT	3880	3890	4260	4870	5070	5990	13150	28590	41350	12930	5600	4500
CFSM	0.43	0.44	0.47	0.54	0.62	0.66	1.50	3.16	4.73	1.43	0.62	0.51
IN.	0.49	0.50	0.54	0.62	0.65	0.76	1.68	3.65	5.28	1.65	0.71	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)												
MEAN	97.6	98.4	91.1	84.2	82.2	86.3	212	554	641	281	115	92.3
MAX	181	178	202	224	163	158	417	1026	1157	717	244	151
(WY)	1963	1928	1942	1997	1963	1934	1943	1956	1911	1943	1943	1965
MIN	56.4	57.4	54.8	50.0	54.5	65.0	87.9	271	157	61.5	42.4	39.7
(WY)	1993	1993	1932	1930	1993	1912	1955	2001	2001	1994	1994	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1911 - 2003	
	ANNUAL TOTAL	55472		67601		
ANNUAL MEAN	152		185		200	
HIGHEST ANNUAL MEAN					331	1997
LOWEST ANNUAL MEAN					101	2001
HIGHEST DAILY MEAN	853	Jun 1	1350	May 31	1900	May 24 1956
LOWEST DAILY MEAN	49	Nov 1	49	Nov 1	34	Aug 28 1994
ANNUAL SEVEN-DAY MINIMUM	54	Sep 21	58	Oct 31	35	Aug 31 1994
ANNUAL RUNOFF (AC-FT)	110000		134100		145000	
ANNUAL RUNOFF (CFSM)	1.03		1.26		1.36	
ANNUAL RUNOFF (INCHES)	14.04		17.11		18.50	
10 PERCENT EXCEEDS	391		380		523	
50 PERCENT EXCEEDS	73		84		99	
90 PERCENT EXCEEDS	60		63		66	

e Estimated

SALMON RIVER BASIN

13297330 THOMPSON CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'13", long 114°31'00", (NAD83), in NE¼NE¼SE¼ sec.24, T.11 N., R.16 E., Custer County, Thompson Creek quad., Hydrologic Unit 17060201, on right bank, 1.2 mi upstream from mouth, 2.2 mi below Pat Hughes Creek, and 5.7 mi west of Clayton.

DRAINAGE AREA.--29.1 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,700 ft above NGVD of 1929, from topographic map. Prior to June 13, 1982, recording gage at site 200 ft upstream at datum 2 ft higher.

REMARKS.--Records good except for discharges May 23 to June 2, and estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 442 ft³/s May 15, 1997, gage height, 4.07 ft; minimum, 1.0 ft³/s Mar. 16, 1980, gage height, 3.73 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 29	----	*162 ^a	----	No other peak greater than base discharge.			

(a) Maximum daily discharge

Minimum daily, 2.5 ft³/s Dec. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.7	3.1	2.9	6.7	3.2	7.5	22	95	16	3.9	3.3
2	3.5	3.0	3.2	3.0	6.0	e3.5	7.8	23	91	15	4.1	3.3
3	3.6	3.3	3.1	3.0	4.7	3.1	7.0	22	82	14	4.5	3.2
4	3.5	3.4	3.0	3.1	4.6	3.1	6.5	23	77	14	4.5	3.1
5	3.4	3.3	3.0	3.2	3.9	3.1	6.3	22	70	13	4.5	3.1
6	3.4	3.2	2.8	3.0	e3.5	3.1	6.0	21	67	12	4.5	3.7
7	3.4	3.2	2.6	2.7	e3.5	3.1	5.7	20	66	12	4.3	5.0
8	3.3	3.1	2.5	3.0	e3.5	3.2	5.9	21	64	12	4.0	4.2
9	3.4	3.1	2.8	3.2	e4.0	3.1	7.3	22	62	11	4.0	4.1
10	3.4	3.1	3.2	3.3	4.0	3.3	12	20	59	11	3.9	4.2
11	3.4	3.1	3.2	3.3	e3.5	3.5	20	20	54	10	3.8	3.9
12	3.3	2.9	3.0	3.0	e3.5	3.9	37	21	50	9.9	3.7	3.6
13	3.3	2.9	2.9	2.9	3.8	4.2	52	22	46	9.5	3.5	3.6
14	3.4	3.0	2.8	2.9	3.7	5.1	46	30	40	9.4	3.5	3.5
15	3.3	3.0	2.9	3.0	3.5	5.3	37	45	37	8.7	3.6	3.5
16	3.4	3.0	3.0	3.0	3.5	5.1	30	57	35	8.2	4.4	3.4
17	3.4	2.9	3.0	3.0	3.5	4.8	27	51	33	8.2	4.0	3.8
18	3.4	2.9	2.9	2.9	3.4	4.5	23	46	31	7.9	3.9	3.6
19	3.3	3.0	3.0	3.1	3.3	4.5	20	37	31	7.9	3.7	3.6
20	3.3	3.1	3.1	3.1	3.3	4.6	19	35	31	7.8	3.6	3.4
21	3.5	3.2	3.0	3.0	3.3	4.7	21	40	30	6.6	3.6	3.4
22	3.5	3.3	3.0	3.0	3.3	4.9	21	66	29	5.9	4.3	3.2
23	3.7	3.5	2.9	3.1	3.3	6.2	25	111	26	5.5	5.6	3.1
24	3.6	3.5	e2.9	3.1	e3.0	6.3	27	148	24	5.5	4.9	3.1
25	3.4	3.0	e3.0	3.1	e3.0	6.6	30	156	23	5.4	4.0	3.0
26	3.4	3.1	3.2	3.1	e3.0	6.8	27	155	23	5.6	3.6	3.0
27	3.3	3.2	3.1	4.4	3.5	5.8	24	152	21	6.6	3.6	3.0
28	3.4	3.2	3.1	4.3	e3.5	5.4	22	144	19	4.8	3.6	3.1
29	3.5	3.2	3.0	3.7	---	5.7	21	162	18	4.2	3.6	3.1
30	3.6	3.1	3.0	4.1	---	5.5	21	135	16	4.0	3.6	3.0
31	3.1	---	3.0	4.3	---	5.8	---	112	---	3.9	3.5	---
TOTAL	106.0	93.5	92.3	99.8	105.3	141.0	622.0	1961	1350	275.5	123.8	104.1
MEAN	3.42	3.12	2.98	3.22	3.76	4.55	20.7	63.3	45.0	8.89	3.99	3.47
MAX	3.7	3.5	3.2	4.4	6.7	6.8	52	162	95	16	5.6	5.0
MIN	3.1	2.7	2.5	2.7	3.0	3.1	5.7	20	16	3.9	3.5	3.0
AC-FT	210	185	183	198	209	280	1230	3890	2680	546	246	206
CFSM	0.12	0.11	0.10	0.11	0.13	0.16	0.71	2.17	1.55	0.31	0.14	0.12
IN.	0.14	0.12	0.12	0.13	0.13	0.18	0.80	2.51	1.73	0.35	0.16	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	4.84	4.97	4.49	4.32	4.45
MAX	8.07	14.0	11.9	10.3	9.91
(WY)	1985	1984	1984	1984	1986
MIN	2.87	2.47	2.85	2.46	2.24
(WY)	1980	1980	1980	1980	1977

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1973 - 2003

ANNUAL TOTAL	4429.5	5074.3	
ANNUAL MEAN	12.1	13.9	
HIGHEST ANNUAL MEAN			17.1
LOWEST ANNUAL MEAN			37.9
HIGHEST DAILY MEAN	116	Jun 2	162
LOWEST DAILY MEAN	2.5	Jan 29	2.5
ANNUAL SEVEN-DAY MINIMUM	2.8	Dec 3	2.8
ANNUAL RUNOFF (AC-FT)	8790		10060
ANNUAL RUNOFF (CFSM)	0.42		0.48
ANNUAL RUNOFF (INCHES)	5.66		6.49
10 PERCENT EXCEEDS	34		35
50 PERCENT EXCEEDS	3.5		3.7
90 PERCENT EXCEEDS	3.0		3.0

e Estimated

SALMON RIVER BASIN

13297350 BRUNO CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°17'51", long 114°28'53"(revised), in SW¹/₄NE¹/₄ sec.8, T.11 N., R.17 E., Custer County, Clayton quad., Hydrologic Unit 17060201, U.S. Bureau of Land Management lands, on left bank, 0.2 mi upstream from mouth, and 4.8 mi northwest of Clayton

DRAINAGE AREA.--6.29 mi².

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

REVISED RECORDS.--WDR ID-76-1: 1974-75(P).

GAGE.--Water-stage recorder and V-notch weir since Oct. 2002. Cipolletti weir in use from 1978-2002. Elevation of gage is 5,840 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for flows above 7 ft³/s, which are poor. Flow affected at times by diversions from stream or by return flow from ground-water pumpage at mine about 2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft³/s May 31, 1972 prior to installation of cipolletti weir. Maximum gage height, 3.36 ft, May 30, 2003, following installation of V-notch weir in 2002. Periods of no flow occurred Dec. 14, 1980 to Feb. 20, 1981, Mar. 4 to Apr. 10, 1982, Aug. 6-12, 1990, Oct. 18 -21, 1990, Apr. 18-20, 1991, Aug. 9-16, 31, Sept. 1, 4, 8-23, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8.3 ft³/s May 30; minimum daily, 0.12 ft³/s Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	0.15	e0.24	e0.25	e0.27	e0.23	e0.37	0.47	7.0	0.35	0.18	0.15
2	0.12	0.15	e0.25	e0.24	e0.28	e0.24	e0.37	0.47	6.0	0.33	0.18	0.15
3	0.13	0.16	e0.25	e0.25	e0.27	e0.25	e0.36	0.47	5.3	0.33	0.18	0.14
4	0.13	0.16	e0.24	e0.25	e0.26	e0.25	e0.36	0.48	4.6	0.32	0.19	0.14
5	0.13	0.17	e0.24	e0.26	e0.25	e0.25	e0.35	0.48	4.1	0.31	0.18	0.14
6	0.13	0.18	e0.24	e0.26	e0.24	e0.25	e0.36	0.48	3.7	0.30	0.18	0.15
7	0.13	0.20	e0.23	e0.24	e0.21	e0.25	e0.35	0.46	3.4	0.30	0.18	0.15
8	0.13	0.23	e0.23	e0.24	e0.21	e0.27	e0.35	0.41	3.2	0.29	0.17	0.16
9	0.13	0.26	e0.24	e0.23	e0.22	e0.26	e0.35	0.40	2.6	0.27	0.17	0.16
10	0.13	0.26	e0.24	e0.24	e0.23	e0.26	e0.36	0.39	1.6	0.26	0.16	0.16
11	0.13	0.25	e0.24	e0.24	e0.25	e0.27	e0.37	0.40	1.4	0.26	0.16	0.16
12	0.13	0.25	e0.24	e0.24	e0.24	e0.26	e0.40	0.41	1.3	0.25	0.16	0.16
13	0.13	0.24	e0.24	e0.24	e0.24	e0.28	e0.46	0.41	1.1	0.25	0.16	0.15
14	0.13	0.24	e0.25	e0.24	e0.25	0.32	e0.52	0.41	0.89	0.24	0.16	0.15
15	0.13	0.25	e0.26	e0.26	e0.25	0.36	e0.56	0.41	0.76	0.23	0.16	0.15
16	0.13	e0.25	e0.26	e0.24	e0.25	0.37	e0.54	0.43	0.68	0.23	0.17	0.15
17	0.13	e0.25	e0.24	e0.23	e0.25	e0.35	e0.50	0.48	0.62	0.22	0.18	0.15
18	0.13	e0.25	e0.24	e0.24	e0.25	e0.34	e0.48	0.51	0.58	0.22	0.17	0.15
19	0.14	e0.25	e0.23	e0.24	e0.24	e0.33	e0.44	0.53	0.55	0.22	0.16	0.15
20	0.14	e0.25	e0.22	e0.23	e0.24	e0.36	e0.42	0.54	0.52	0.21	0.16	0.15
21	0.14	e0.25	e0.24	e0.24	e0.24	e0.35	e0.40	0.57	0.48	0.21	0.16	0.15
22	0.14	e0.25	e0.24	e0.25	e0.26	e0.36	e0.37	0.58	0.46	0.20	0.18	0.15
23	0.14	e0.25	e0.24	e0.26	e0.25	e0.35	e0.38	0.59	0.45	0.20	0.18	0.15
24	0.14	e0.26	e0.23	e0.26	e0.24	e0.35	e0.42	0.61	0.44	0.20	0.19	0.14
25	0.15	e0.25	e0.22	e0.24	e0.20	e0.35	0.49	2.0	0.43	0.20	0.18	0.14
26	0.15	e0.24	e0.22	e0.25	e0.20	e0.36	0.50	2.8	0.42	0.20	0.17	0.14
27	0.15	e0.24	e0.24	e0.26	e0.23	e0.36	0.50	2.9	0.41	0.20	0.17	0.14
28	0.15	e0.24	e0.26	e0.25	e0.25	e0.35	0.50	4.7	0.39	0.19	0.16	0.14
29	0.15	e0.24	e0.26	e0.24	---	e0.34	0.48	6.5	0.37	0.19	0.16	0.14
30	0.15	e0.24	e0.25	e0.24	---	e0.36	0.48	8.3	0.36	0.19	0.15	0.14
31	0.15	---	e0.25	e0.25	---	e0.37	---	8.0	---	0.18	0.15	---
TOTAL	4.21	6.86	7.47	7.60	6.77	9.65	12.79	46.59	54.11	7.55	5.26	4.45
MEAN	0.14	0.23	0.24	0.25	0.24	0.31	0.43	1.50	1.80	0.24	0.17	0.15
MAX	0.15	0.26	0.26	0.26	0.28	0.37	0.56	8.3	7.0	0.35	0.19	0.16
MIN	0.12	0.15	0.22	0.23	0.20	0.23	0.35	0.39	0.36	0.18	0.15	0.14
AC-FT	8.4	14	15	15	13	19	25	92	107	15	10	8.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

MEAN	0.37	0.37	0.37	0.31	0.36	0.43	1.13	4.17	4.78	1.15	0.47	0.35
MAX	1.18	1.25	1.57	1.27	1.86	1.25	3.44	13.9	18.6	4.47	1.39	1.17
(WY)	1985	1984	1981	1984	1982	1984	1974	1971	1971	1982	1982	1984
MIN	0.12	0.11	0.11	0.000	0.087	0.18	0.21	0.18	0.13	0.11	0.027	0.026
(WY)	1995	1978	1995	1981	1981	2002	2002	2001	1994	1994	1992	1992

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1971 - 2003
ANNUAL TOTAL	104.62	173.31	
ANNUAL MEAN	0.29	0.47	1.12
HIGHEST ANNUAL MEAN			3.27
LOWEST ANNUAL MEAN			0.18
HIGHEST DAILY MEAN	2.6	Jun 2	32
LOWEST DAILY MEAN	0.08	Aug 14	0.00
ANNUAL SEVEN-DAY MINIMUM	0.08	Aug 14	0.00
ANNUAL RUNOFF (AC-FT)	208	344	811
10 PERCENT EXCEEDS	0.46	0.51	2.5
50 PERCENT EXCEEDS	0.20	0.25	0.36
90 PERCENT EXCEEDS	0.10	0.15	0.15

e Estimated

SALMON RIVER BASIN

13297355 SQUAW CREEK BELOW BRUNO CREEK, NEAR CLAYTON, ID

LOCATION.--Lat 44°17'27", long 114°28'18", (NAD83), in SW¹/₄SW¹/₄SW¹/₄ sec.9, T.11 N., R.17 E., Custer County, Clayton quad., Hydrologic Unit 17060201, on left bank, 3 mi upstream from mouth and 4.5 mi northwest of Clayton.

DRAINAGE AREA.--79.0 mi².

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

REVISED RECORDS.--WDR ID-76-1: 1975(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,710 ft above NGVD of 1929, from topographic map. Prior to June 12, 1974, at datum 2.46 ft higher.

REMARKS.--Records good except for estimated daily discharges and discharges above 20 ft³/s, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 755 ft³/s May 29, 1986, gage height, 6.31 ft; minimum, 3.3 ft³/s Mar. 11, 1979, gage height, 2.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	unknown	*271 ^a	unknown	No other peak greater than base discharge.			

(a) Maximum daily discharge

Minimum daily, 7.0 ft³/s Nov. 1, Dec. 8, Feb. 25-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	e7.0	e9.0	e8.5	15	e9.5	21	37	227	26	9.8	8.7
2	8.4	e8.0	e9.5	e9.0	13	e11	20	37	187	25	10	8.4
3	8.5	e9.0	e9.0	9.3	e11	10	20	40	166	24	13	8.3
4	8.6	e10	e9.0	9.3	e11	e10	21	42	147	23	14	8.1
5	8.5	e10	9.3	9.4	e10	e9.5	19	40	135	22	11	8.5
6	8.4	e10	e9.0	e8.5	e9.5	10	16	38	128	21	11	10
7	8.3	e10	e8.0	e8.0	e9.5	10	18	36	123	20	10	10
8	8.3	9.9	e7.0	e7.5	e9.5	10	16	36	119	19	9.9	9.5
9	8.5	9.8	e8.0	e8.5	e11	10	19	36	117	18	9.6	9.6
10	8.3	9.8	e10	e9.0	e11	12	26	35	110	17	9.3	10
11	8.3	9.7	e10	e9.5	e9.5	14	34	35	100	16	9.2	9.7
12	7.7	e9.5	e9.5	e9.5	e9.5	17	45	36	89	15	9.0	9.1
13	8.4	9.8	e9.0	9.8	e10	17	48	39	82	15	8.7	9.0
14	8.3	9.6	9.3	9.6	9.5	22	45	52	75	15	8.6	9.1
15	8.4	e9.0	9.3	e9.0	9.8	18	38	76	69	14	8.9	9.0
16	8.5	e9.5	9.1	e8.5	11	17	32	94	63	14	11	8.8
17	8.3	9.5	e9.0	e8.0	9.2	17	30	88	59	13	9.7	8.7
18	8.1	e9.0	e8.5	e8.0	e9.5	15	27	82	56	13	9.4	8.9
19	8.1	9.4	e8.0	e8.0	e9.0	16	25	68	55	13	9.0	8.8
20	8.4	9.7	e7.5	e8.0	9.1	17	26	63	55	13	8.7	8.6
21	8.5	9.7	e9.0	9.5	9.1	14	31	69	49	12	8.8	8.5
22	8.5	9.8	e9.0	9.3	9.3	15	36	89	46	12	10	8.4
23	8.9	10	e8.5	9.4	e10	17	43	163	43	11	15	8.3
24	8.7	10	e8.5	e9.5	e8.0	20	49	256	41	11	11	8.2
25	7.9	e9.0	e8.0	9.1	e7.0	16	57	270	38	12	9.7	8.2
26	e7.5	e9.5	e7.5	9.5	e7.0	14	48	262	35	12	9.3	8.1
27	e7.5	e10	e8.0	12	e8.0	e14	42	265	33	13	9.6	8.1
28	e7.5	e10	e9.0	11	e9.0	e14	38	254	31	12	9.4	8.1
29	8.0	e9.5	e9.5	e10	---	e14	36	214	29	11	9.1	8.1
30	e7.5	e9.5	e9.5	10	---	15	37	225	28	11	9.5	8.1
31	e7.5	---	9.4	11	---	17	---	271	---	10	9.0	---
TOTAL	254.6	285.2	272.9	285.2	274.0	442.0	963	3348	2535	483	310.2	262.9
MEAN	8.21	9.51	8.80	9.20	9.79	14.3	32.1	108	84.5	15.6	10.0	8.76
MAX	8.9	10	10	12	15	22	57	271	227	26	15	10
MIN	7.5	7.0	7.0	7.5	7.0	9.5	16	35	28	10	8.6	8.1
AC-FT	505	566	541	566	543	877	1910	6640	5030	958	615	521
CFSM	0.10	0.12	0.11	0.12	0.12	0.18	0.41	1.37	1.07	0.20	0.13	0.11
IN.	0.12	0.13	0.13	0.13	0.13	0.21	0.45	1.58	1.19	0.23	0.15	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
MEAN	10.9	11.1	10.5	10.2	9.95	15.2	41.0	113	124	33.9	13.3	10.9																					
MAX	17.4	21.9	19.1	23.6	16.3	35.6	86.0	280	312	94.7	24.8	18.6																					
(WY)	1998	1984	1998	1997	1984	1986	1986	1997	1974	1982	1999	1997																					
MIN	5.01	5.88	6.53	6.18	6.41	7.84	12.4	17.7	16.6	6.90	5.38	5.10																					
(WY)	1992	1995	1990	1995	1994	1977	1975	1977	1994	1994	1977	1994																					

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1973 - 2003
ANNUAL TOTAL	8558.1	9716.0	
ANNUAL MEAN	23.4	26.6	
HIGHEST ANNUAL MEAN			33.7
LOWEST ANNUAL MEAN			71.1
HIGHEST DAILY MEAN	168	Jun 1	271
LOWEST DAILY MEAN	7.0	Nov 1	7.0
ANNUAL SEVEN-DAY MINIMUM	7.4	Sep 11	7.5
ANNUAL RUNOFF (AC-FT)	16970	19270	24420
ANNUAL RUNOFF (CFSM)	0.30	0.34	0.43
ANNUAL RUNOFF (INCHES)	4.03	4.58	5.80
10 PERCENT EXCEEDS	61	55	85
50 PERCENT EXCEEDS	9.5	10	13
90 PERCENT EXCEEDS	7.7	8.2	7.1

e Estimated

SALMON RIVER BASIN
13301620 FALLS CREEK NEAR MAY, ID

LOCATION.--Lat 44°34'59", long 113°45'56", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.15 N., R.23 E., Lemhi County, East of May quad.,
Hydrologic Unit 17060202, on left bank, about 4.5 mi upstream from mouth, and about 7 mi southwest of May.

PERIOD OF RECORD.--May 2002 to current year (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 5,960 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 169 ft³/s May 30; minimum daily, 3.3 ft³/s Apr. 6-7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	e7.0	5.7	---	---	---	e3.5	11	110	25	9.5	9.1
2	7.9	e7.0	5.7	---	---	---	e3.5	11	83	24	9.5	9.0
3	7.9	7.3	5.6	---	---	---	e4.0	12	80	23	9.7	9.2
4	7.7	7.1	5.6	---	---	---	3.4	13	74	22	9.3	8.7
5	7.5	6.8	5.4	---	---	---	3.4	13	68	21	9.2	8.2
6	7.6	6.7	5.5	---	---	---	3.3	12	65	21	9.2	9.1
7	7.5	6.6	e5.5	---	---	---	3.3	12	63	20	9.2	9.3
8	7.4	6.7	e5.5	---	---	---	3.4	12	61	19	9.2	8.5
9	7.2	6.6	e5.5	---	---	---	3.7	12	61	18	9.4	8.5
10	7.1	6.6	e5.5	---	---	---	4.4	11	60	18	9.4	8.7
11	7.2	6.6	5.4	---	---	---	6.4	11	56	17	9.5	8.8
12	7.3	6.6	5.6	---	---	---	9.6	11	53	16	9.8	8.8
13	7.3	6.5	5.5	---	---	---	11	11	50	15	10	9.3
14	7.3	6.4	5.4	---	---	---	9.7	13	46	15	10	9.4
15	7.2	6.3	5.4	---	---	---	8.2	20	45	14	12	9.3
16	7.2	6.2	5.4	---	---	---	6.9	28	43	14	13	8.8
17	7.2	6.2	e5.0	---	---	---	6.4	27	44	13	13	8.7
18	7.2	6.2	---	---	---	---	6.0	26	42	12	12	9.3
19	7.2	6.1	---	---	---	---	5.8	23	39	12	9.4	9.2
20	7.3	6.0	---	---	---	---	6.4	21	39	11	9.2	9.2
21	7.2	6.1	---	---	---	---	7.4	22	36	11	9.1	9.0
22	7.0	5.8	---	---	---	---	8.8	25	33	11	9.3	8.9
23	7.1	6.1	---	---	---	---	10	38	31	11	9.9	8.9
24	7.1	6.0	---	---	---	---	12	59	30	11	9.2	8.6
25	7.1	5.9	---	---	---	---	16	75	30	10	9.1	8.6
26	7.2	6.2	---	---	---	---	15	83	28	10	9.1	8.5
27	7.1	6.0	---	---	---	---	12	90	27	10	9.4	8.5
28	7.1	5.9	---	---	---	---	11	94	27	10	9.2	8.4
29	7.1	5.8	---	---	---	---	11	147	26	9.8	8.9	8.3
30	7.0	5.7	---	---	---	---	11	169	26	9.7	9.0	8.3
31	e7.0	---	---	---	---	---	---	147	---	9.6	9.2	---
TOTAL	226.1	191.0	---	---	---	---	226.5	1259	1476	463.1	302.9	265.1
MEAN	7.29	6.37	---	---	---	---	7.55	40.6	49.2	14.9	9.77	8.84
MAX	7.9	7.3	---	---	---	---	16	169	110	25	13	9.4
MIN	7.0	5.7	---	---	---	---	3.3	11	26	9.6	8.9	8.2
AC-FT	448	379	---	---	---	---	449	2500	2930	919	601	526
CFSM	0.39	0.34	---	---	---	---	0.40	2.15	2.60	0.79	0.52	0.47
IN.	0.45	0.38	---	---	---	---	0.45	2.48	2.91	0.91	0.60	0.52

e Estimated

SALMON RIVER BASIN

13302005 PAHSIMEROI RIVER AT ELLIS, ID

LOCATION.--Lat 44°41'30", long 114°02'49", (NAD83) in NW¼SW¼NW¼ sec.25, T.16 N., R.20 E., on Custer-Lemhi County line, Ellis quad., Hydrologic Unit 17060202, on right bank, about 500 ft upstream from mouth, at Ellis.

DRAINAGE AREA.--827 mi², approximately.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,634.96 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good except for discharges June 5 to July 1, which are fair, and May 21 to June 4, which are poor.

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, 1989, gage height, 1.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 284 ft³/s Nov. 23, 24, gage height, 1.95 ft; minimum daily, 87 ft³/s May 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	231	250	225	265	222	208	178	148	125	100	121
2	197	236	251	226	258	226	212	168	95	127	102	121
3	201	240	253	230	244	237	211	165	100	125	111	121
4	211	243	253	240	245	242	204	166	104	121	108	122
5	206	241	254	248	242	237	202	165	107	125	108	125
6	203	240	251	243	239	236	202	162	109	124	113	119
7	204	244	249	239	232	235	200	160	110	122	111	125
8	203	246	245	233	227	236	198	155	110	120	108	121
9	201	255	241	230	225	238	193	152	110	121	106	126
10	200	256	238	226	231	236	185	146	109	121	107	132
11	205	252	237	224	236	240	182	129	111	122	114	132
12	216	246	244	224	236	245	183	127	114	118	115	133
13	223	249	251	229	238	235	183	121	116	114	109	136
14	219	253	251	243	243	227	193	113	118	117	110	135
15	217	249	256	247	239	224	192	109	119	117	111	133
16	216	250	254	238	240	230	190	98	120	115	116	131
17	214	252	253	235	239	222	190	105	121	113	110	131
18	211	250	246	229	241	219	186	99	121	117	113	122
19	214	252	242	224	239	218	185	90	120	117	115	127
20	226	254	236	217	241	218	185	87	119	116	110	130
21	223	255	233	220	241	218	184	90	121	111	113	130
22	219	254	230	230	244	219	187	92	124	110	118	130
23	218	268	227	248	241	219	187	110	126	109	122	131
24	228	268	223	243	226	213	182	122	127	115	120	131
25	228	255	217	242	220	211	192	113	128	140	123	133
26	228	247	214	244	214	217	191	107	127	146	126	132
27	230	245	215	253	212	216	188	104	126	138	126	128
28	236	244	218	253	220	212	183	101	127	122	120	131
29	236	247	220	244	---	210	182	96	126	112	116	131
30	236	247	222	248	---	209	179	139	126	102	120	131
31	234	---	224	254	---	207	---	224	---	104	121	---
TOTAL	6698	7469	7398	7329	6618	6974	5739	3993	3539	3706	3522	3851
MEAN	216	249	239	236	236	225	191	129	118	120	114	128
MAX	236	268	256	254	265	245	212	224	148	146	126	136
MIN	195	231	214	217	212	207	179	87	95	102	100	119
AC-FT	13290	14810	14670	14540	13130	13830	11380	7920	7020	7350	6990	7640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
MEAN	280	313	292	280	285	292	229	150	204	178	155	185	185	185	185	185	185	185	185	185
MAX	501	496	427	406	374	401	355	212	417	348	219	307	307	307	307	307	307	307	307	307
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1986	1998	1998	1986	1986	1986	1986	1986	1986	1986	1986	1986
MIN	202	239	219	227	227	221	174	111	118	111	114	128	128	128	128	128	128	128	128	128
(WY)	1995	1995	1995	1993	1989	1990	1990	1992	2003	1989	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1985 - 2003	
ANNUAL TOTAL	69397		66836			
ANNUAL MEAN	190		183		237	
HIGHEST ANNUAL MEAN					329	
LOWEST ANNUAL MEAN					183	
HIGHEST DAILY MEAN	280	Mar 13	268	Nov 23	710	Jun 4 1986
LOWEST DAILY MEAN	110	May 15	87	May 20	87	May 20 2003
ANNUAL SEVEN-DAY MINIMUM	112	May 11	94	May 16	94	May 16 2003
ANNUAL RUNOFF (AC-FT)	137600		132600		171400	
10 PERCENT EXCEEDS	256		247		341	
50 PERCENT EXCEEDS	203		202		236	
90 PERCENT EXCEEDS	123		110		128	

SALMON RIVER BASIN

13302500 SALMON RIVER AT SALMON, ID

LOCATION.--Lat 45°11'01", long 113°53'43", in NE¼NE¼ sec.6, T.21 N., R.22 E., Lemhi County, Salmon quad., Hydrologic Unit 17060203, on left bank, 1,000 ft downstream from island, 0.4 mi upstream from Lemhi River, 0.5 mi downstream from highway bridge at Salmon, and at mile 258.9.

DRAINAGE AREA.--3,760 mi², approximately. Mean elevation, 7,380 ft.

PERIOD OF RECORD.--April 1912 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area. WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 3,911.14 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1929, nonrecording gage at site 700 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes telemetry. Diversions above station for irrigation of about 83,800 acres, of which about 900 acres are irrigated by withdrawals from groundwater (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft³/s June 17, 1974, gage height, 8.67 ft; maximum gage height, 10.33 ft, Feb. 7, 1985, ice jam; minimum, 242 ft³/s Jan. 8, 1937, gage height, 1.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft³/s May 31, gage height, 7.23 ft; minimum daily, 619 ft³/s Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	895	e900	1030	e900	1170	e900	1040	1620	11800	2360	812	656
2	925	e800	1040	e900	1270	e850	1140	1550	10100	2340	780	655
3	955	e850	1020	994	1250	e900	1190	1510	8760	2270	815	647
4	961	e950	1010	1020	e1150	943	1120	1590	7710	2110	869	632
5	956	e1000	1010	1020	e1100	916	1080	1700	6850	1980	864	619
6	940	e1050	1010	1020	e1000	923	1060	1620	6370	1880	835	627
7	928	e1050	979	e900	e900	933	1040	1510	6130	1810	806	675
8	924	1110	915	e850	e900	957	1010	1420	6090	1720	777	690
9	916	1130	854	e800	e950	975	1010	1380	6150	1640	768	686
10	904	1140	799	e800	e1000	976	1060	1370	6220	1560	769	717
11	917	1120	892	e850	e1000	989	1200	1310	6080	1490	754	728
12	926	1110	996	e900	e950	1000	1440	1330	5710	1390	746	713
13	932	1090	1020	e950	e950	1020	1720	1370	5310	1330	744	722
14	946	1110	1020	1030	e1000	1040	1880	1430	5000	1290	725	721
15	948	1090	1040	1030	1010	1100	1760	1540	4760	1260	683	711
16	942	1060	1050	978	990	1180	1620	1870	4670	1230	690	701
17	942	1070	1050	e850	977	1160	1540	2270	4450	1160	713	688
18	947	1080	e1000	e800	980	1100	1500	2280	4440	1120	699	696
19	945	1050	e900	e800	960	1070	1440	2240	4510	1090	695	715
20	962	1080	e850	e800	e900	1040	1380	2030	4560	1050	675	726
21	956	1080	e800	e900	e950	1040	1450	1960	4520	1000	658	718
22	976	1080	e850	e950	987	1040	1620	2070	4080	962	646	704
23	975	1110	e900	988	972	1040	1740	2560	3680	928	729	701
24	1020	1130	e850	986	e850	1140	1870	3730	3310	907	795	701
25	1020	1080	e750	977	e650	1110	1940	5170	3020	912	772	693
26	984	997	e700	966	e700	1110	2050	6220	2700	950	733	676
27	972	967	e800	1060	e800	1100	1860	6870	2480	943	727	655
28	999	994	e1000	1100	e850	1050	1690	7320	2370	958	707	650
29	1020	1020	1080	1110	---	1000	1620	8260	2380	922	685	647
30	1020	1040	1060	1060	---	999	1600	10500	2350	885	664	644
31	e1000	---	e950	1110	---	1020	---	12200	---	849	668	---
TOTAL	29653	31338	29225	29399	27166	31621	43670	99800	156560	42296	23003	20514
MEAN	957	1045	943	948	970	1020	1456	3219	5219	1364	742	684
MAX	1020	1140	1080	1110	1270	1180	2050	12200	11800	2360	869	728
MIN	895	800	700	800	650	850	1010	1310	2350	849	646	619
AC-FT	58820	62160	57970	58310	53880	62720	86620	198000	310500	83890	45630	40690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

MEAN	1266	1298	1141	1077	1080	1126	1639	3917	5694	2697	1215	1071
MAX	1858	1967	1609	1667	1551	1702	3672	7951	11790	6515	2785	2017
(WY)	1983	1984	1984	1974	1984	1986	1943	1956	1974	1965	1965	1965
MIN	765	801	718	756	702	787	900	995	1434	590	445	402
(WY)	1938	1938	1933	1933	1933	1935	1937	1977	2001	1994	1992	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1913 - 2003
ANNUAL TOTAL	497471	564245	
ANNUAL MEAN	1363	1546	1937
HIGHEST ANNUAL MEAN			3163
LOWEST ANNUAL MEAN			1024
HIGHEST DAILY MEAN	7350	Jun 2	12200
LOWEST DAILY MEAN	519	Aug 20	619
ANNUAL SEVEN-DAY MINIMUM	527	Aug 16	643
ANNUAL RUNOFF (AC-FT)	986700		1119000
10 PERCENT EXCEEDS	2900		2420
50 PERCENT EXCEEDS	974		1010
90 PERCENT EXCEEDS	668		712
			850

e Estimated

SALMON RIVER BASIN

13305000 LEMHI RIVER NEAR LEMHI, ID

LOCATION.--Lat 44°56'24", long 113°38'21", in NW¼NE¼ sec.32, T.19 N., R.24 E., Lemhi County, Tendoy quad., Hydrologic Unit 17060204, on right bank, 35 ft upstream from bridge on State Highway 28, 1.4 mi south of Tendoy, 1.8 mi upstream from Agency Creek, 6.2 mi north of Lemhi, and at mile 28.8.

DRAINAGE AREA.--895 mi², approximately.

PERIOD OF RECORD.--November 1938 to August 1939, April 1955 to September 1963, water years 1964-67 (annual maximum), August 1967 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 4,960 ft above NGVD of 1929, from topographic map. Prior to Aug. 25, 1967, at site 1.5 mi upstream at different datum. November 1938 to August 1939, nonrecording gage; Apr. 29, 1955 to Sept. 30, 1963, nonrecording gage and supplemental crest-stage gage; Oct. 1, 1963 to Aug. 24, 1967, crest-stage gage only.

REMARKS.--Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 25,500 acres, of which about 200 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s June 21, 1984, gage height, 7.19 ft; minimum, 31 ft³/s Aug. 6, 1988, gage height, 2.39 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 714 ft³/s May 31; minimum daily, 65 ft³/s Sept. 25, 28, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	e150	204	173	268	e190	213	110	609	122	85	e90
2	85	e150	204	176	234	e180	218	110	486	117	99	e90
3	90	e170	207	177	216	196	213	118	404	111	103	e85
4	92	197	209	179	222	199	201	134	342	106	115	e85
5	92	195	209	182	211	200	201	144	302	103	88	e90
6	94	202	206	e170	e190	203	203	138	281	102	89	e85
7	94	206	191	e160	e180	205	196	118	283	99	80	e90
8	96	213	185	e150	e200	219	195	108	279	102	87	e85
9	105	221	e165	e150	e210	233	196	111	296	e100	94	e85
10	108	228	e160	e140	e210	249	197	108	298	e100	89	e80
11	102	225	e175	e150	e190	280	195	109	278	e95	87	e85
12	106	221	187	e160	e180	316	197	118	259	e95	89	e85
13	115	224	194	e180	e200	319	191	113	246	e95	85	e80
14	125	224	197	181	217	340	195	101	232	e95	80	e80
15	135	221	203	181	214	314	198	101	222	e95	e80	e80
16	141	219	201	e180	214	294	189	111	208	e95	79	74
17	146	223	202	e170	214	269	184	107	208	e90	78	78
18	146	218	e160	e180	212	249	181	101	212	e90	76	80
19	142	219	e150	e180	208	238	157	99	204	92	74	77
20	142	224	e160	e190	208	232	149	91	209	91	74	75
21	146	226	e150	e200	215	225	151	100	197	92	91	70
22	147	225	e160	e200	217	220	148	111	179	94	93	70
23	145	236	e170	200	215	232	156	145	166	92	e100	69
24	146	233	e150	198	e150	220	161	199	163	101	e90	68
25	147	e190	e150	200	e130	218	158	255	160	101	79	65
26	162	199	e140	201	e150	221	172	333	144	98	77	66
27	174	200	e150	226	e170	210	174	374	132	91	79	66
28	184	202	e160	218	e180	213	156	399	128	77	80	65
29	e190	203	176	209	---	209	125	506	122	86	81	66
30	e180	204	172	221	---	209	119	646	123	84	e85	65
31	e170	---	174	234	---	208	---	714	---	78	e90	---
TOTAL	4040	6268	5521	5716	5625	7310	5389	6032	7372	2989	2676	2329
MEAN	130	209	178	184	201	236	180	195	246	96.4	86.3	77.6
MAX	190	236	209	234	268	340	218	714	609	122	115	90
MIN	85	150	140	140	130	180	119	91	122	77	74	65
AC-FT	8010	12430	10950	11340	11160	14500	10690	11960	14620	5930	5310	4620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	249	273	231	227	234	257	253	300	529	285	146	159
MAX	405	379	339	319	322	357	473	816	1302	909	349	274
(WY)	1983	1984	1976	1974	1976	1998	1969	1984	1984	1975	1984	1976
MIN	125	177	159	164	164	173	130	99.5	129	63.1	57.8	68.4
(WY)	1995	1995	2002	2002	2002	1995	1994	1989	1992	1988	1988	1992

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1939 - 2003
ANNUAL TOTAL	56441	61267	
ANNUAL MEAN	155	168	263
HIGHEST ANNUAL MEAN			479
LOWEST ANNUAL MEAN			155
HIGHEST DAILY MEAN	498	714	2100
LOWEST DAILY MEAN	60	65	34
ANNUAL SEVEN-DAY MINIMUM	64	66	41
ANNUAL RUNOFF (AC-FT)	112000	121500	190400
10 PERCENT EXCEEDS	223	232	385
50 PERCENT EXCEEDS	160	170	232
90 PERCENT EXCEEDS	85	85	119

e Estimated

SALMON RIVER BASIN

13305310 LEMHI RIVER BELOW L5 DIVERSION NEAR SALMON, ID

LOCATION.--Lat 45°07'58", long 113°47'56", in NW¼SE¼ sec.24, T.21 N., R.22 E., Lemhi County, East of Salmon quad., Hydrologic Unit 17060204, on right bank 0.25 mi below Highway 28 crossing, approximately 5.75 mi southeast of Salmon.

PERIOD OF RECORD.--November 1992 to December 1999, June 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4164.56 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 6, 1995, gage height, 5.19 ft; minimum daily, 0.75 ft³/s July 18, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,290 ft³/s May 31; minimum daily, 19.0 ft³/s July 31, Aug. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	e160	251	212	356	e200	218	94	1180	69	20	28
2	33	e160	251	217	263	e190	226	91	992	50	19	28
3	33	e190	254	218	231	e210	220	94	784	46	20	28
4	33	e220	256	220	232	210	205	110	600	43	23	28
5	31	e230	258	228	217	211	202	119	477	37	20	28
6	31	e240	256	e200	e200	213	202	110	389	31	22	28
7	32	249	242	e190	e180	214	192	91	367	28	23	31
8	30	263	232	e180	e200	227	185	75	354	26	24	29
9	34	269	e210	e180	217	240	182	71	345	24	27	29
10	47	272	e200	e170	216	283	183	58	350	22	26	29
11	49	267	e220	e180	e200	379	174	34	328	21	26	29
12	53	264	237	e190	e190	550	159	37	301	22	26	29
13	59	269	245	e210	e210	610	153	36	297	22	26	29
14	66	268	257	221	222	567	161	28	289	22	26	28
15	89	274	264	222	215	391	162	24	256	22	26	28
16	100	274	256	e200	221	380	157	24	232	21	26	28
17	100	270	254	e190	231	318	148	26	219	22	25	28
18	105	257	e190	e200	227	288	145	27	223	21	25	28
19	106	258	e180	e200	221	268	133	27	195	21	25	26
20	104	260	e190	e210	222	258	116	21	192	21	26	26
21	108	269	e180	e215	230	251	103	24	198	21	26	26
22	127	265	e190	219	236	243	100	24	186	21	27	26
23	150	283	e200	219	227	251	113	24	183	21	31	26
24	147	282	e180	206	e160	234	125	41	172	20	26	27
25	150	e240	e180	204	e140	222	129	112	159	22	27	26
26	151	e230	e170	207	e160	222	156	267	139	24	27	26
27	151	242	e190	348	e180	210	171	382	112	26	27	26
28	166	248	e210	257	e190	213	152	476	92	22	27	26
29	e180	251	223	215	---	209	117	696	78	21	27	25
30	e200	250	213	226	---	210	106	1020	67	20	27	25
31	e190	---	217	262	---	211	---	1290	---	19	28	---
TOTAL	2888	7474	6856	6616	5996	8683	4795	5553	9756	828	781	824
MEAN	93.2	249	221	213	214	280	160	179	325	26.7	25.2	27.5
MAX	200	283	264	348	356	610	226	1290	1180	69	31	31
MIN	30	160	170	170	140	190	100	21	67	19	19	25
AC-FT	5730	14820	13600	13120	11890	17220	9510	11010	19350	1640	1550	1630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)

MEAN	237	313	261	254	263	309	240	268	666	251	62.6	69.0
MAX	359	403	334	309	358	429	441	597	1505	832	164	180
(WY)	1996	1999	1996	1999	1996	1997	1998	1997	1995	1995	1997	1998
MIN	93.2	228	212	202	208	217	113	43.2	123	4.21	1.51	2.81
(WY)	2003	1995	1995	1995	2002	2002	2002	2002	2001	1994	1994	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1993 - 2003	
ANNUAL TOTAL	54483		61050			
ANNUAL MEAN	149		167		275	
HIGHEST ANNUAL MEAN					421	
LOWEST ANNUAL MEAN					156	
HIGHEST DAILY MEAN	694	Jun 2	1290	May 31	2610	Jun 6 1995
LOWEST DAILY MEAN	10	May 5	19	Jul 31	0.75	Jul 18 1994
ANNUAL SEVEN-DAY MINIMUM	11	May 5	20	Jul 28	1.0	Aug 9 1994
ANNUAL RUNOFF (AC-FT)	108100		121100		199100	
10 PERCENT EXCEEDS	264		269		448	
50 PERCENT EXCEEDS	180		180		233	
90 PERCENT EXCEEDS	28		25		26	

e Estimated

SALMON RIVER BASIN

13306385 NAPIAS CREEK BELOW ARNETT CREEK NEAR LEESBURG, ID

LOCATION.--Lat 45°12'07", long 114°08'19", in SW¼NW¼SE¼ sec.29, T.22 N., R.20 E., Lemhi County, Jureano Mountain quad., Hydrologic Unit 17060203, 20 ft below Arnett Creek, 1.6 mi southwest of Leesburg, and 12 mi northwest of Salmon.

PERIOD OF RECORD.--August 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,370 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. May 1989 to Oct. 1991, gage 200 ft upstream (13306375 "Napias Creek above Arnett Creek near Leesburg"). Records are not comparable, due to inflow from Arnett Creek drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s June 8, 1996, gage height, 7.54 ft; minimum daily, 4.5 ft³/s Jan. 3, 4, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 31	----	*540 ^a	----	No other peak greater than base discharge.			

(a) Maximum daily discharge

Minimum daily, 6.0 ft³/s Feb. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e9.0	e10	e10	e11	e8.0	15	43	e460	e26	11	9.2
2	10	e8.0	e10	e10	e10	e8.0	14	43	e380	e24	11	9.1
3	10	e9.0	e11	e10	e9.0	e8.0	e12	46	e300	e24	11	8.9
4	11	e9.0	e11	e10	e9.0	e8.0	e11	49	e260	e22	11	8.9
5	11	e9.0	e11	e10	e9.0	e8.0	e10	48	e220	e22	11	9.2
6	10	e10	e10	e10	e8.0	e8.0	e11	46	e200	e22	12	9.8
7	10	e10	e10	e10	e8.0	e8.0	e11	46	e200	e20	11	10
8	10	e11	e10	e10	e8.0	e9.0	e12	48	e200	e20	11	9.9
9	10	e11	e9.0	e10	e9.0	e9.0	e17	49	e200	18	10	10
10	9.9	10	e9.0	e9.0	e9.0	e9.0	22	48	e200	16	9.8	10
11	9.8	9.7	e10	e9.0	e9.0	e9.0	27	50	e180	16	9.5	10
12	9.9	9.5	e10	e9.0	e8.0	e10	33	56	e160	15	9.4	10
13	10	9.6	e10	e10	e9.0	e10	36	68	e140	15	9.3	9.9
14	10	9.5	e11	e10	e9.0	e10	32	100	e130	14	9.2	9.7
15	9.9	9.3	e11	e10	e9.0	e10	29	149	e120	14	9.3	9.6
16	9.7	9.6	e11	e9.0	e9.0	e10	e26	180	e110	14	9.2	9.4
17	9.7	9.4	e10	e9.0	e9.0	e10	25	174	e100	13	9.2	10
18	9.7	9.5	e9.0	e8.0	e9.0	e10	24	152	e90	13	9.2	10
19	9.8	9.4	e9.0	e8.0	e9.0	e10	e23	118	e80	13	9.0	10
20	9.4	9.9	e9.0	e8.0	e9.0	e10	27	111	e85	13	9.3	9.6
21	9.4	9.9	e9.0	e8.0	e9.0	e10	34	122	e70	12	9.1	9.4
22	9.5	9.8	e10	e8.0	e9.0	e10	43	156	e60	12	11	9.3
23	9.6	10	e10	e9.0	e8.0	e10	59	212	e50	12	14	9.2
24	10	9.8	e9.0	e9.0	e7.0	e10	64	270	e45	12	10	9.1
25	e10	e9.0	e9.0	e9.0	e6.0	e10	75	305	e40	14	9.8	9.0
26	e10	e10	e9.0	e10	e7.0	11	62	306	e36	16	9.5	8.9
27	e9.0	e10	e10	e10	e7.0	e11	54	322	e34	15	11	8.8
28	9.9	e10	e10	e9.0	e7.0	e11	49	351	e32	13	9.9	8.8
29	9.8	e10	e10	e8.0	---	e10	47	408	e30	12	9.5	8.8
30	e10	e10	e10	e9.0	---	e11	44	e480	e28	11	9.3	8.7
31	e9.0	---	e10	e10	---	13	---	e540	---	11	9.4	---
TOTAL	307.0	289.9	307.0	288.0	239.0	299.0	948	5096	4240	494	313.9	283.2
MEAN	9.90	9.66	9.90	9.29	8.54	9.65	31.6	164	141	15.9	10.1	9.44
MAX	11	11	11	10	11	13	75	540	460	26	14	10
MIN	9.0	8.0	9.0	8.0	6.0	8.0	10	43	28	11	9.0	8.7
AC-FT	609	575	609	571	474	593	1880	10110	8410	980	623	562

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2003, BY WATER YEAR (WY)

	1998	1997	2003	1997	1999	1999	2003	1997	1996	1998	1993	1998
MEAN	9.37	8.89	8.29	7.77	7.70	8.84	22.4	102	101	25.7	12.3	9.72
MAX	11.4	10.6	9.90	9.95	8.94	10.7	31.6	226	216	46.7	19.2	12.9
(WY)	1998	1997	2003	1997	1999	1999	2003	1997	1996	1998	1993	1998
MIN	6.66	6.82	6.31	5.94	6.14	7.11	13.2	48.3	22.5	12.6	8.17	7.28
(WY)	1995	1995	1995	1995	1995	1995	1995	1992	1992	2000	1992	1994

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1991 - 2003

ANNUAL TOTAL	9332.4	13105.0	
ANNUAL MEAN	25.6	35.9	27.1
HIGHEST ANNUAL MEAN			46.7
LOWEST ANNUAL MEAN			14.3
HIGHEST DAILY MEAN	211	Jun 1	540
LOWEST DAILY MEAN	6.0	Jan 29	6.0
ANNUAL SEVEN-DAY MINIMUM	6.6	Feb 25	7.1
ANNUAL RUNOFF (AC-FT)	18510	25990	19600
10 PERCENT EXCEEDS	73	87	67
50 PERCENT EXCEEDS	10	10	10
90 PERCENT EXCEEDS	7.3	9.0	7.0

e Estimated

SALMON RIVER BASIN

13307000 SALMON RIVER NEAR SHOUP, ID

LOCATION.--Lat 45°19'20", long 114°26'23", in NE¹/₄SW¹/₄ sec.14, T.23 N., R.17 E., Lemhi County, Bighorn Crags quad., Hydrologic Unit 17060205, Salmon National Forest, on right bank 0.6 mi upstream from Owl Creek, 2.3 mi downstream from Panther Creek, 9 mi southwest of Shoup, and at mile 207.8.

DRAINAGE AREA.--6,270 mi², approximately. Mean elevation, 7,140 ft.

PERIOD OF RECORD.--October 1944 to September 1981, October 2002 to September 2003.

GAGE.--Water-stage recorder. Datum of gage is, 3,153.7 ft above NGVD of 1929. Prior to Sept. 18, 1951, nonrecording gage at different sites, approximately 1.3 mi upstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 149,000 acres are by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,711 ft³/s June 18, 1974, gage height, 13.13 ft; minimum, 710 ft³/s Aug. 20, 21, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 16,000 ft³/s May 31, June 1; minimum, 796 ft³/s Sept. 5, 6, gage height, 1.69 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1100	e1200	1390	e1200	1720	e1200	1590	2500	16000	3110	1100	864
2	e1140	e1050	1380	e1200	1790	e1150	1680	2460	13900	3060	1000	854
3	e1140	e1150	1390	e1300	1690	e1200	1770	2380	11700	2960	1020	845
4	1160	e1300	1380	e1350	1570	e1250	1680	2480	10400	2860	e1120	837
5	1160	e1350	1370	e1350	1450	1270	1590	2650	9240	2660	e1130	811
6	1150	e1450	1350	e1350	1390	1250	1540	2600	8520	2550	1150	807
7	1130	e1450	1330	e1200	e1240	1270	1500	2450	8190	2430	1100	871
8	1130	1500	1240	e1150	e1200	1340	1460	2270	8060	2320	1050	924
9	1110	1520	1170	e1050	e1250	1400	1450	2170	8060	2250	999	928
10	1100	1530	e1050	e1050	e1300	1390	1540	2130	8060	2120	990	946
11	1100	1530	e1150	e1150	e1300	1500	e1650	2050	7980	2010	965	988
12	1110	1500	1300	e1200	e1250	1650	e2100	2040	7560	1910	950	991
13	1130	1480	1340	e1300	e1250	1850	e2400	2150	7040	1800	946	967
14	1160	1470	1370	e1400	e1300	2010	e2800	2320	6660	e1750	933	983
15	1190	1470	e1400	e1400	e1300	1870	e2600	2610	6300	e1700	896	975
16	1220	1450	e1350	e1300	e1300	1900	2470	3130	6120	e1650	864	957
17	1210	1420	e1350	e1150	e1300	1840	2300	3600	5840	e1600	862	942
18	1210	1430	e1300	e1050	e1300	1700	2210	3670	5700	e1500	e900	941
19	1210	1430	e1200	e1050	e1250	1600	2120	3540	5730	e1450	e900	947
20	1210	1410	e1100	e1050	e1200	1550	2030	3290	5800	e1400	e900	975
21	1220	1450	e1050	e1200	e1250	1530	2080	3120	5840	e1350	e880	974
22	1220	1440	e1150	e1300	e1300	1520	e2400	3210	5440	e1300	e850	946
23	1260	1480	e1200	e1350	e1300	1550	e2650	3830	5040	e1250	e950	945
24	1270	1530	e1100	e1300	e1100	1560	2960	5180	4610	e1200	e1050	941
25	1300	1470	e1000	e1250	e800	1620	3180	7380	4280	1320	e1000	934
26	1290	1380	e950	e1250	e900	1580	3300	8910	3920	1410	e980	908
27	1270	1320	e1100	e1500	e1000	1570	3130	9860	3560	1390	974	886
28	1300	1320	e1300	1630	e1100	1510	2840	10700	3310	1320	949	861
29	1330	1360	e1400	1500	---	1460	2650	12000	3220	1270	911	864
30	1330	1380	e1400	1460	---	1430	2530	14300	3150	1190	879	851
31	e1300	---	e1300	1440	---	1460	---	16000	---	1140	865	---
TOTAL	37160	42220	38860	39430	36100	46980	66200	146980	209230	57230	30063	27463
MEAN	1199	1407	1254	1272	1289	1515	2207	4741	6974	1846	970	915
MAX	1330	1530	1400	1630	1790	2010	3300	16000	16000	3110	1150	991
MIN	1100	1050	950	1050	800	1150	1450	2040	3150	1140	850	807
AC-FT	73710	83740	77080	78210	71600	93180	131300	291500	415000	113500	59630	54470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

	1946	1994	1793	1698	1720	1776	2467	6267	9142	3961	1753	1625
MEAN	1946	1994	1793	1698	1720	1776	2467	6267	9142	3961	1753	1625
MAX	2471	2357	2422	2333	2361	2743	4363	11480	16790	8910	3514	2805
(WY)	1947	1976	1965	1974	1972	1972	1969	1976	1974	1975	1965	1965
MIN	1199	1407	1254	1272	1289	1407	1395	1652	3149	1386	822	915
(WY)	2003	2003	2003	2003	2003	1967	1961	1977	1977	1966	1966	2003

SUMMARY STATISTICS

FOR 2003 WATER YEAR

WATER YEARS 1945 - 2003

ANNUAL TOTAL	777916	
ANNUAL MEAN	2131	3013
HIGHEST ANNUAL MEAN		4513
LOWEST ANNUAL MEAN		1813
HIGHEST DAILY MEAN	16000	25400
LOWEST DAILY MEAN	800	720
ANNUAL SEVEN-DAY MINIMUM	840	733
ANNUAL RUNOFF (AC-FT)	1543000	2183000
ANNUAL RUNOFF (CFSM)	0.34	0.48
10 PERCENT EXCEEDS	3630	6750
50 PERCENT EXCEEDS	1350	1900
90 PERCENT EXCEEDS	947	1390

e Estimated

SALMON RIVER BASIN

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

LOCATION.--Lat 44°43'18", long 115°00'59", in NW¼SW¼SW¼ sec.16, T.16 N., R.12 E., Valley County, Little Soldier Mountain quad., Hydrologic Unit 17060205, Boise National Forest, on left bank at Middle Fork Lodge, 300 ft upstream 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, March 1999 to current year.

REVISED RECORDS.--WDR-ID-00-2: 1999.

GAGE.--Water-stage recorder. Elevation of gage is,4,380 ft above NGVD of 1929, from topographic map. Prior to March 1999, gage was at site 600 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft³/s June 16, 1974, gage height, 10.80 ft, datum then in use; minimum daily, 190 ft³/s Dec. 24, 25, 2001, Jan. 29, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	0515	4,380	4.64	May 31	0145	*14,300	*8.23

Minimum daily, 240 ft³/s Feb. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	484	308	429	385	1350	e300	1150	1620	10800	1870	784	567
2	478	332	399	403	1140	e340	1250	1620	9390	1780	771	558
3	472	375	391	428	870	e360	1060	1730	8620	1700	797	549
4	477	408	394	425	759	e340	929	1810	7790	1630	839	542
5	469	421	441	427	600	e340	838	1770	7120	1560	795	544
6	461	437	376	348	529	e340	791	1670	6890	1500	785	569
7	457	460	298	301	479	e340	726	1590	e7000	1440	757	577
8	453	511	e260	e280	e480	355	725	1580	e7000	1420	733	588
9	450	479	325	e280	e460	372	860	1640	e7000	1360	716	611
10	446	471	430	e300	e460	384	1200	1630	6640	1310	694	605
11	442	454	505	e340	469	421	1530	1700	6140	1260	677	585
12	434	437	496	e360	443	526	1940	1830	5560	1220	666	565
13	434	457	455	e420	475	606	2080	2040	5180	1180	659	548
14	437	450	464	453	525	829	1900	2470	4830	1150	646	542
15	438	414	506	445	483	895	1650	3200	4580	1120	639	532
16	442	408	464	380	455	844	1470	4190	4330	1090	650	530
17	440	450	430	374	450	757	1370	4040	4240	1060	631	527
18	434	414	352	324	432	689	1310	3660	4190	1040	628	533
19	429	423	e320	e280	396	643	1220	3110	3980	1010	617	534
20	427	446	e320	e340	429	673	1310	3060	3980	997	604	523
21	430	447	436	457	419	652	1560	3250	3560	966	590	514
22	430	445	418	426	420	681	1740	3890	3140	936	626	507
23	451	458	375	458	398	1030	2070	5270	2840	916	816	501
24	452	465	357	424	e260	906	2130	7310	2590	909	715	494
25	435	373	352	411	e240	833	2310	8910	2390	925	642	488
26	415	312	e340	442	e280	805	2150	9340	2250	929	615	483
27	412	368	e400	855	e300	709	1860	9610	2170	941	645	481
28	429	386	540	780	e300	638	1720	10200	2110	887	637	478
29	434	423	511	601	---	629	1670	11900	2040	857	605	474
30	424	440	415	626	---	666	1680	13400	1970	832	587	471
31	376	---	428	746	---	771	---	13300	---	806	578	---
TOTAL	13692	12672	12627	13519	14301	18674	44199	142340	150320	36601	21144	16020
MEAN	442	422	407	436	511	602	1473	4592	5011	1181	682	534
MAX	484	511	540	855	1350	1030	2310	13400	10800	1870	839	611
MIN	376	308	260	280	240	300	725	1580	1970	806	578	471
AC-FT	27160	25130	25050	26810	28370	37040	87670	282300	298200	72600	41940	31780
CFSM	0.42	0.41	0.39	0.42	0.49	0.58	1.42	4.42	4.82	1.14	0.66	0.51
IN.	0.49	0.45	0.45	0.48	0.51	0.67	1.58	5.09	5.38	1.31	0.76	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY)

MEAN	575	591	516	508	481	568	1349	4003	4730	1718	774	606
MAX	835	1145	717	1075	719	855	2061	6399	13130	4455	1439	859
(WY)	1976	1974	1976	1974	1974	1974	2000	1976	1974	1974	1974	1974
MIN	412	408	373	353	347	405	584	957	1038	493	354	365
(WY)	2002	1980	2002	2002	2002	2002	1979	1977	2001	1977	1977	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1973 - 2003
ANNUAL TOTAL	400052	496109	
ANNUAL MEAN	1096	1359	1367
HIGHEST ANNUAL MEAN			2697
LOWEST ANNUAL MEAN			581
HIGHEST DAILY MEAN	6790	13400	20700
LOWEST DAILY MEAN	190	240	190
ANNUAL SEVEN-DAY MINIMUM	304	289	260
ANNUAL RUNOFF (AC-FT)	793500	984000	990000
ANNUAL RUNOFF (CFSM)	1.05	1.31	1.31
ANNUAL RUNOFF (INCHES)	14.31	17.75	17.85
10 PERCENT EXCEEDS	2860	3160	3620
50 PERCENT EXCEEDS	494	588	610
90 PERCENT EXCEEDS	340	370	393

e Estimated

SALMON RIVER BASIN

13310199 MIDDLE FORK SALMON RIVER AT MOUTH NEAR SHOUP, ID

LOCATION.--Lat 45°17'37", long 114°35'47", in SE¹/₄NE¹/₄ sec.28, T.23 N., R.15 E., Lemhi County, Long Tom Mountain quad., Hydrologic Unit 17060206, on right bank, about 0.3 mi upstream from mouth.

DRAINAGE AREA.--2,830 mi², approximately.

PERIOD OF RECORD.--October 1993 to current year.

REVISED RECORDS.--WDR-ID-99-2: 1994, 1995, 1996, 1997.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are good to 2,000 ft³/s, fair to 10,000 ft³/s and poor above 10,000 ft³/s. Estimated daily discharges are fair. Station equipment includes satellite telemetry. No regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28,600 ft³/s May 17, 1997; minimum daily, 400 ft³/s Dec. 31, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 24,100 ft³/s May 31; minimum daily, 349 ft³/s Dec. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	974	e600	903	950	1850	e1000	1980	3180	20200	3240	1450	1090
2	963	e500	855	896	2160	e900	2500	3050	17300	3060	1420	1070
3	953	e600	815	941	1780	e950	2270	3140	15600	2900	1440	1050
4	957	e750	804	970	1550	e950	2030	3360	14100	2740	1500	1040
5	959	e800	816	966	1390	917	1880	3370	12800	2600	1470	1030
6	942	e850	868	931	e1150	942	1770	3220	12200	2480	1470	1060
7	930	e850	710	e700	e1000	934	1680	3060	12100	2390	1430	1110
8	922	e950	474	e600	e1050	942	1600	2950	11900	2360	1370	1090
9	913	e1000	349	e600	1170	948	1670	3000	11900	2330	1340	1140
10	906	979	e500	e700	1210	971	2060	2990	11500	2210	1310	1160
11	893	940	e800	e800	1150	1040	2700	2990	10900	2140	1270	1150
12	888	909	e800	e900	e1000	1190	3640	3150	9880	2080	1240	1100
13	880	893	e850	e900	e1000	1420	4230	3460	9180	2010	1240	1070
14	886	924	e850	e950	e1000	1710	4120	3980	8610	1970	1220	1050
15	888	891	e950	e1000	e1000	1920	3560	5190	8190	1930	1200	1040
16	882	840	948	e900	1090	1860	3090	7140	7810	1890	1210	1030
17	890	854	911	e850	1060	1740	2760	7500	7580	1840	1190	1030
18	884	896	802	e750	1040	1610	2570	6910	7500	1800	1180	1050
19	879	835	e600	e650	1010	1510	2400	6060	7140	1770	1170	1050
20	874	871	e600	e700	971	1470	2360	5570	7020	1750	1150	1030
21	875	901	e700	e800	1020	1490	2690	5590	6530	1710	1130	1010
22	878	901	e650	e800	1030	1450	3230	6360	5690	1660	1140	997
23	875	931	e600	e900	1000	1740	3950	8620	5200	1630	1330	982
24	901	984	e550	1020	878	1880	4360	12700	4660	1610	1390	968
25	890	903	e600	942	e700	1740	4560	16300	4310	1640	1240	956
26	847	703	e700	939	e750	1700	4520	17900	3970	1710	1170	946
27	833	e600	e800	1200	e950	1630	3970	17900	3770	1780	1180	940
28	869	e650	e1000	1640	e1000	1500	3520	18700	3660	1650	1210	935
29	890	e750	e1100	1330	---	1420	3330	21200	3540	1580	1160	929
30	867	e900	1040	1220	---	1450	3230	23600	3410	1530	1130	923
31	796	---	954	1280	---	1560	---	24100	---	1490	1110	---
TOTAL	27784	24955	23899	28725	31959	42484	88230	256240	268150	63480	39460	31026
MEAN	896	832	771	927	1141	1370	2941	8266	8938	2048	1273	1034
MAX	974	1000	1100	1640	2160	1920	4560	24100	20200	3240	1500	1160
MIN	796	500	349	600	700	900	1600	2950	3410	1490	1110	923
AC-FT	55110	49500	47400	56980	63390	84270	175000	508300	531900	125900	78270	61540
CFSM	0.32	0.29	0.27	0.33	0.40	0.48	1.04	2.92	3.16	0.72	0.45	0.37
IN.	0.37	0.33	0.31	0.38	0.42	0.56	1.16	3.37	3.52	0.83	0.52	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
MEAN	1121	1116	1050	1072	1054	1365	2969	8621	9642	3267	1485	1178
MAX	1420	1642	2211	2452	1632	2042	4308	16520	17400	5558	2068	1622
(WY)	1998	1997	1996	1997	1996	1997	1996	1997	1996	1995	1997	1997
MIN	762	728	666	739	713	846	1453	4737	2449	1240	845	683
(WY)	1995	1995	1995	2001	2002	2002	2001	2001	2001	2001	1994	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1994 - 2003
ANNUAL TOTAL	786739	926392	
ANNUAL MEAN	2155	2538	2832
HIGHEST ANNUAL MEAN			4648
LOWEST ANNUAL MEAN			1415
HIGHEST DAILY MEAN	14200	24100	28600
LOWEST DAILY MEAN	349	349	349
ANNUAL SEVEN-DAY MINIMUM	614	614	557
ANNUAL RUNOFF (AC-FT)	1560000	1837000	2052000
ANNUAL RUNOFF (CFSM)	0.76	0.90	1.00
ANNUAL RUNOFF (INCHES)	10.34	12.18	13.60
10 PERCENT EXCEEDS	5850	5630	7180
50 PERCENT EXCEEDS	979	1150	1310
90 PERCENT EXCEEDS	700	800	760

e Estimated

SALMON RIVER BASIN

13310700 SOUTH FORK SALMON RIVER NEAR KRASSEL RANGER STATION, ID

LOCATION.--Lat 44°59'14", long 115°43'27", in NE¼SW¼NE¼ sec.16, T.19 N., R.6 E., Valley County, Teapot Mountain quad., Hydrologic Unit 17060208, Payette National Forest, on right bank, 0.6 mi upstream from Fitsum Creek, 1.4 mi downstream from Krassel Ranger station, 2 mi upstream from mouth of East Fork of South Fork Salmon River, 20 mi east of McCall, and at mile 39.7.

DRAINAGE AREA.--330 mi².

PERIOD OF RECORD.--October 1966 to September 1982, April 1985 to September 1986, February 1989 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 3,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,740 ft³/s June 17, 1974, gage height, 10.00 ft; minimum, 38 ft³/s Nov. 27, 1976, gage height, 1.11 ft, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1948, reached a discharge of 5,200 ft³/s by slope-area measurement at site 2.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	2245	*5,710	*8.75	No other peak greater than base discharge.			
Minimum, 51 ft ³ /s Nov. 1, gage height, 1.23, but may have been less during period of ice effect.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	76	124	149	919	e160	624	757	3880	691	188	124
2	117	92	121	143	734	160	713	733	e3400	644	185	122
3	114	111	116	158	553	170	617	745	e3200	599	197	119
4	115	127	113	171	454	156	559	880	2860	561	199	117
5	115	129	123	166	373	158	518	867	2710	526	186	116
6	112	135	125	151	327	160	485	811	2710	495	179	116
7	110	134	89	131	293	164	451	765	2750	471	173	133
8	109	149	76	117	e280	159	432	735	2760	471	167	133
9	107	142	117	e120	e260	e170	457	725	2780	447	163	146
10	107	130	166	e130	e260	179	537	707	2680	413	158	146
11	105	125	196	140	e260	194	704	725	2490	390	153	143
12	104	120	183	151	246	227	886	812	2230	370	150	135
13	105	123	141	150	254	289	992	939	2100	351	149	126
14	106	122	150	178	251	382	962	968	1970	337	145	124
15	106	116	193	216	241	430	863	1150	1900	323	143	122
16	107	113	174	175	231	443	785	1380	1820	307	142	120
17	106	115	145	158	221	414	746	1370	1790	293	138	119
18	105	112	121	136	209	374	706	1260	1750	282	138	121
19	104	111	e120	120	192	345	647	1130	1620	271	137	121
20	104	114	122	137	199	344	645	1090	1530	261	134	118
21	104	135	128	149	194	327	690	1110	1310	250	131	116
22	105	155	121	142	197	393	738	1280	1150	241	135	115
23	109	151	112	184	189	970	877	1740	1030	234	161	113
24	109	150	112	198	160	761	880	2490	926	229	154	110
25	106	127	e110	177	e140	633	1000	e3200	866	244	139	109
26	100	108	106	205	e150	587	942	e3400	819	248	134	108
27	104	118	127	768	e160	529	854	3700	806	239	143	107
28	109	128	242	687	e160	468	799	4050	794	225	150	107
29	110	134	237	434	---	441	779	4690	769	213	136	106
30	108	124	173	400	---	429	763	5180	738	203	130	105
31	97	---	158	519	---	447	---	4790	---	195	128	---
TOTAL	3341	3726	4341	6860	8107	11063	21651	54179	58138	11024	4765	3617
MEAN	108	124	140	221	290	357	722	1748	1938	356	154	121
MAX	122	155	242	768	919	970	1000	5180	3880	691	199	146
MIN	97	76	76	117	140	156	432	707	738	195	128	105
AC-FT	6630	7390	8610	13610	16080	21940	42940	107500	115300	21870	9450	7170
CFSM	0.33	0.38	0.42	0.67	0.88	1.08	2.19	5.30	5.87	1.08	0.47	0.37
IN.	0.38	0.42	0.49	0.77	0.91	1.25	2.44	6.11	6.55	1.24	0.54	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2003, BY WATER YEAR (WY)

MEAN	149	195	210	225	221	296	665	1717	1797	539	188	148
MAX	275	557	763	860	629	754	1210	3208	4186	1307	313	216
(WY)	1976	1974	1996	1997	1996	1986	1997	1974	1982	1974	1974	1970
MIN	84.0	103	96.3	89.5	100	117	202	390	336	137	85.1	72.6
(WY)	1992	1993	1993	1993	2001	1977	1975	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 2002	CALENDAR YEAR	FOR 2003	WATER YEAR	WATER YEARS 1967 - 2003
ANNUAL TOTAL	156514		190812		
ANNUAL MEAN	429		523		536
HIGHEST ANNUAL MEAN					974
LOWEST ANNUAL MEAN					180
HIGHEST DAILY MEAN	3010	May 30	5180	May 30	6200
LOWEST DAILY MEAN	76	Nov 1	76	Nov 1	58
ANNUAL SEVEN-DAY MINIMUM	99	Oct 27	99	Oct 27	70
ANNUAL RUNOFF (AC-FT)	310400		378500		388500
ANNUAL RUNOFF (CFSM)	1.30		1.58		1.63
ANNUAL RUNOFF (INCHES)	17.64		21.51		22.08
10 PERCENT EXCEEDS	1250		1140		1510
50 PERCENT EXCEEDS	149		185		207
90 PERCENT EXCEEDS	109		110		113

e Estimated

SALMON RIVER BASIN

13313000 JOHNSON CREEK AT YELLOW PINE, ID

LOCATION.--Lat 44°57'44", long 115°29'58", in NE¼ sec.29, T.19 N., R.8 E., Valley County, Yellow Pine quad., Hydrologic Unit 17060208, Boise National Forest, on right bank 700 ft upstream from mouth, and 0.2 mi southwest of Yellow Pine.

DRAINAGE AREA.--213 mi². Mean elevation, 7,170 ft.

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

REVISED RECORDS.--WDR ID-83-1: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 4,655.75 ft above NGVD of 1929. Prior to July 19, 1977, at site 385 ft upstream at datum 1.95 ft higher.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Small diversion from Johnson Creek to Deadwood River until September 20, 1988.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,230 ft³/s June 17, 1974, gage height, 8.32 ft; minimum, 21 ft³/s Nov. 30, 1954, Nov. 20, 1979, Nov. 18, 1988; minimum gage height, 0.66 ft, Nov. 30, 1954, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	2130	*4,500	*7.36	No other peak greater than base discharge.			

Minimum, 29 ft³/s Nov. 1, gage height, 1.72 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	46	62	62	189	81	161	324	2940	486	e120	74
2	73	52	60	65	192	79	172	327	2710	447	e120	71
3	73	59	60	66	163	81	160	335	2520	415	e130	70
4	73	62	59	67	144	78	154	364	2320	385	e130	70
5	73	61	61	66	130	77	149	359	2220	358	e120	69
6	72	64	57	60	121	78	146	337	2240	334	e120	73
7	71	65	46	54	112	77	136	323	2260	313	e110	73
8	70	71	45	56	e110	76	140	318	2230	320	e110	74
9	68	70	49	54	e100	76	147	319	2220	302	e110	77
10	66	69	56	61	e100	77	169	323	2090	274	e100	e78
11	66	67	61	67	e100	79	214	339	1920	255	e100	e80
12	64	66	e60	69	e100	83	274	378	1750	237	e90	78
13	64	67	62	68	104	86	310	438	1660	224	e90	75
14	65	68	66	70	110	103	306	536	1570	212	e90	74
15	65	63	72	70	104	110	290	728	1500	204	e90	72
16	66	65	68	64	100	113	278	942	1450	191	e90	71
17	66	67	65	64	98	109	268	922	1420	182	e90	71
18	66	65	53	55	95	107	252	833	1360	175	e90	71
19	64	64	59	60	90	103	236	723	1250	168	e80	71
20	63	65	62	64	92	105	244	740	1210	161	e80	71
21	63	65	64	70	92	103	269	844	1050	154	e80	70
22	63	67	63	67	89	114	303	1090	936	e150	79	69
23	63	69	60	72	87	160	376	1540	853	e140	96	68
24	63	70	60	69	72	139	385	2130	755	e140	91	66
25	60	54	59	67	e60	135	446	2580	690	e150	83	65
26	57	50	60	72	e65	133	419	2710	645	e150	79	64
27	59	61	62	126	e70	125	371	2830	619	e150	82	63
28	70	64	77	119	e75	113	356	3150	593	e140	84	63
29	64	65	73	104	---	116	347	3700	563	e140	79	62
30	62	63	65	106	---	120	337	3960	528	e130	77	62
31	51	---	66	117	---	126	---	3520	---	e130	75	---
TOTAL	2036	1904	1892	2251	2964	3162	7815	37962	46072	7217	2965	2115
MEAN	65.7	63.5	61.0	72.6	106	102	260	1225	1536	233	95.6	70.5
MAX	73	71	77	126	192	160	446	3960	2940	486	130	80
MIN	51	46	45	54	60	76	136	318	528	130	75	62
AC-FT	4040	3780	3750	4460	5880	6270	15500	75300	91380	14310	5880	4200
CFSM	0.31	0.30	0.29	0.34	0.50	0.48	1.23	5.80	7.28	1.10	0.45	0.33
IN.	0.36	0.34	0.33	0.40	0.52	0.56	1.38	6.69	8.12	1.27	0.52	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
	96.0	350	1963	43.4	1989
	101	269	1963	49.0	1930
	94.0	340	1996	46.8	1989
	88.1	270	1997	49.9	1937
	84.9	231	1963	51.6	1937
	96.3	245	1934	57.1	1937
	311	1098	1934	69.1	1975
	1267	2342	1956	295	1977
	1385	3529	1974	247	1987
	374	1034	1974	77.4	1931
	120	230	1974	45.2	1931
	88.5	140	1965	39.7	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1928 - 2003
ANNUAL TOTAL	99784	118355	
ANNUAL MEAN	273	324	
HIGHEST ANNUAL MEAN			622 1974
LOWEST ANNUAL MEAN			123 1977
HIGHEST DAILY MEAN	2260	3960	5440 Jun 17 1974
LOWEST DAILY MEAN	45	45	28 Dec 15 1988
ANNUAL SEVEN-DAY MINIMUM	53	53	36 Sep 1 1931
ANNUAL RUNOFF (AC-FT)	197900	234800	248200
ANNUAL RUNOFF (CFSM)	1.30	1.54	1.62
ANNUAL RUNOFF (INCHES)	17.59	20.87	22.06
10 PERCENT EXCEEDS	915	837	1070
50 PERCENT EXCEEDS	77	90	104
90 PERCENT EXCEEDS	62	62	61

e Estimated

SALMON RIVER BASIN

13314300 SOUTH FORK SALMON RIVER AT MOUTH NEAR MACKAY BAR, ID

LOCATION.--Lat 45°22'00", long 115°30'43", in sec.8, T.23 N., R.8 E. (unsurveyed, from USGS topographic map), Idaho County, Burgdorf Summit quad., Hydrologic Unit 17060208, on left bank, 1.0 mi south of Mackay Bar landing strip, and at mile 0.8.

DRAINAGE AREA.--1,310 mi², approximately.

PERIOD OF RECORD.--October 1993 to September 2003 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,600 ft³/s May 31, 2003, gage height, 18.85 ft; minimum, 139 ft³/s Jan. 18, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	0030	*21,600	*18.25	No other peak greater than base discharge.			

Minimum daily, 210 ft³/s Nov. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	239	388	499	1850	583	1780	2380	15300	2650	760	484
2	470	e210	396	468	1850	519	2090	2340	13500	2480	739	473
3	459	322	392	510	1480	558	1870	2390	12400	2330	763	464
4	464	381	375	552	1260	535	1700	2570	11400	2200	790	457
5	470	406	426	546	1050	516	1570	2580	10800	2070	754	454
6	463	432	410	505	910	531	1470	2440	10800	1960	727	461
7	446	430	304	414	763	538	1360	2340	11000	1870	698	483
8	435	538	213	352	808	576	1300	2280	10900	1900	669	503
9	426	546	e240	350	777	587	1340	2300	11000	1870	651	566
10	419	496	325	402	796	618	1530	2300	10500	1700	626	580
11	411	466	475	462	728	659	1910	2330	9810	1600	605	567
12	404	451	475	512	671	738	2440	2510	8820	1510	592	534
13	399	448	467	503	693	883	2870	2790	8330	1430	585	506
14	405	450	475	520	744	1140	2810	3040	7730	1370	569	490
15	406	427	585	612	742	1300	2540	3770	7370	1320	560	478
16	410	401	572	545	702	1310	2330	4890	7150	1260	558	467
17	409	419	536	487	688	1250	2200	4780	6980	1200	544	475
18	403	418	431	432	659	1150	2100	4320	6760	1150	539	488
19	398	397	381	373	630	1060	1920	3850	6210	1110	535	491
20	394	419	391	422	611	1020	1930	3740	5940	1070	521	478
21	397	432	430	492	620	988	2100	3880	5120	1020	508	462
22	399	482	431	481	650	1020	2330	4510	4380	979	522	451
23	399	509	403	526	638	1960	2710	6280	4000	942	628	440
24	403	517	350	592	544	1850	2810	9610	3650	918	662	431
25	393	458	395	538	441	1630	3120	12700	3380	887	567	423
26	364	313	404	545	494	1550	2990	14100	3180	875	532	415
27	362	306	430	1370	588	1420	2700	14200	3090	866	546	410
28	399	382	627	1640	598	1290	2530	15300	3040	862	577	406
29	430	403	712	1160	---	1210	2480	17800	2950	842	535	401
30	401	409	568	1030	---	1190	2450	19600	2810	816	510	397
31	336	---	520	1090	---	1240	---	18400	---	792	496	---
TOTAL	12853	12507	13527	18930	22985	31419	65280	196320	228300	43849	18868	14135
MEAN	415	417	436	611	821	1014	2176	6333	7610	1414	609	471
MAX	479	546	712	1640	1850	1960	3120	19600	15300	2650	790	580
MIN	336	210	213	350	441	516	1300	2280	2810	792	496	397
AC-FT	25490	24810	26830	37550	45590	62320	129500	389400	452800	86970	37420	28040
IN.	0.36	0.36	0.38	0.54	0.65	0.89	1.85	5.57	6.48	1.25	0.54	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	547	674	747	774	758	1019	2283	6596	7058	2040	759	544
MAX	677	1267	2147	2475	1644	1642	3298	11510	11500	3494	1078	739
(WY)	1996	1997	1996	1997	1996	1995	1997	1997	1996	1995	1997	1998
MIN	408	397	414	378	372	511	917	3581	1747	682	384	318
(WY)	1995	1994	2001	2001	2001	1994	2001	2001	2001	2001	2001	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1994 - 2003
ANNUAL TOTAL	582277	678973	
ANNUAL MEAN	1595	1860	1985
HIGHEST ANNUAL MEAN			3125
LOWEST ANNUAL MEAN			870
HIGHEST DAILY MEAN	12400	May 30	20000
LOWEST DAILY MEAN	210	Nov 2	181
ANNUAL SEVEN-DAY MINIMUM	328	Dec 4	284
ANNUAL RUNOFF (AC-FT)	1155000		1438000
ANNUAL RUNOFF (INCHES)	16.53		20.59
10 PERCENT EXCEEDS	4800	3930	5210
50 PERCENT EXCEEDS	534	626	747
90 PERCENT EXCEEDS	400	401	409

e Estimated

SALMON RIVER BASIN

13316500 LITTLE SALMON RIVER AT RIGGINS, ID

LOCATION.--Lat 45°24'47", long 116°19'31", in SE 1/4 SW 1/4 sec.15, T.24 N., R.1 E., Idaho County, Riggins quad., Hydrologic Unit 17060210, on right bank, 14 ft upstream from road bridge, at mile 0.5, and 0.8 mi southwest of Riggins.

DRAINAGE AREA.--576 mi². Mean elevation, 5,430 ft.

PERIOD OF RECORD.--February 1951 to February 1955, September 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,760 ft above NGVD of 1929, from topographic map. Prior to Sept. 28, 1984, at site 250 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 15,300 acres, (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s June 17, 1974, gage height, 11.05 ft, from floodmark; maximum gage height, 12.39 ft, June 13, 1953, site and datum then in use; minimum, 54 ft³/s Dec. 21, 1990, gage height, 2.71 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood about June 1, 1948, reached a discharge of 9,200 ft³/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 23	1645	2,790	6.41	May 16	0045	2,490	6.11
				May 30	1930	*7,230	*9.96

Minimum, 115 ft³/s Oct. 31, Nov. 1, gage height, 2.30 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	123	152	398	1100	280	1190	1080	4760	785	256	185
2	153	133	150	360	1060	256	1580	1060	4360	720	244	181
3	149	134	148	390	819	265	1390	1110	4160	675	252	174
4	151	140	148	433	670	259	1170	1270	3950	639	262	171
5	150	143	149	418	556	252	1140	1300	3830	605	249	171
6	148	146	148	359	484	256	1020	1180	3870	577	240	177
7	147	151	138	297	427	259	910	1100	3910	549	233	174
8	144	228	134	273	406	311	833	1050	3880	550	226	192
9	145	242	138	263	383	388	820	1040	3860	526	219	231
10	146	210	143	257	385	453	872	1060	3660	500	211	248
11	144	187	149	260	348	563	1030	1140	3410	477	201	229
12	143	176	151	257	328	669	1270	1340	3130	448	197	215
13	143	173	178	313	340	824	1510	1710	3090	427	194	205
14	144	171	257	479	341	1000	1460	1690	2920	414	191	201
15	143	166	380	637	331	1110	1310	2120	2840	405	187	198
16	142	162	377	503	386	1400	1190	2250	2760	382	184	191
17	141	162	409	414	467	1300	1100	1890	2650	363	181	189
18	141	159	280	353	394	994	1080	1640	2500	347	178	186
19	142	156	230	326	357	851	991	1470	2320	334	177	179
20	142	158	207	309	342	782	975	1450	2510	322	175	171
21	142	163	201	291	335	713	1050	1600	1910	309	174	168
22	142	168	194	282	364	969	1170	1960	1590	303	186	159
23	143	175	174	330	369	2260	1380	2590	1410	291	302	153
24	144	174	173	352	295	2020	1420	3370	1330	287	293	151
25	142	157	175	340	271	1430	1620	4240	1150	301	240	147
26	139	143	172	418	291	1270	1480	4290	1060	322	219	145
27	138	149	186	881	295	1160	1320	4220	1020	345	212	143
28	148	154	522	991	272	940	1170	4610	973	314	208	140
29	151	155	614	735	---	834	1110	5080	924	298	201	139
30	144	152	484	655	---	774	1110	5970	857	283	192	139
31	126	---	410	859	---	790	---	5550	---	269	188	---
TOTAL	4476	4910	7371	13433	12416	25632	35671	71430	80594	13367	6672	5352
MEAN	144	164	238	433	443	827	1189	2304	2686	431	215	178
MAX	159	242	614	991	1100	2260	1620	5970	4760	785	302	248
MIN	126	123	134	257	271	252	820	1040	857	269	174	139
AC-FT	8880	9740	14620	26640	24630	50840	70750	141700	159900	26510	13230	10620
CFSM	0.25	0.28	0.41	0.75	0.77	1.44	2.06	4.00	4.66	0.75	0.37	0.31
IN.	0.29	0.32	0.48	0.87	0.80	1.66	2.30	4.61	5.21	0.86	0.43	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2003, BY WATER YEAR (WY)

	237	285	320	328	387	667	1312	2351	2343	685	256	221
MEAN	752	915	1030	1501	962	2026	2481	4042	5109	1771	489	379
MAX (WY)	1963	1974	1996	1974	1996	1983	1952	1952	1974	1982	1975	1959
MIN (WY)	104	122	130	126	139	180	377	628	309	165	105	105
(WY)	1988	1988	1993	1991	1994	1977	1977	1977	1992	1977	1992	1994

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1951 - 2003
ANNUAL TOTAL	228481	281324	
ANNUAL MEAN	626	771	784
HIGHEST ANNUAL MEAN			1393
LOWEST ANNUAL MEAN			260
HIGHEST DAILY MEAN	3850	May 30	5970
LOWEST DAILY MEAN	123	Nov 1	123
ANNUAL SEVEN-DAY MINIMUM	135	Oct 30	135
ANNUAL RUNOFF (AC-FT)	453200	558000	567700
ANNUAL RUNOFF (CFSM)	1.09	1.34	1.36
ANNUAL RUNOFF (INCHES)	14.76	18.17	18.48
10 PERCENT EXCEEDS	1750	1780	2150
50 PERCENT EXCEEDS	215	330	331
90 PERCENT EXCEEDS	145	146	160

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID

LOCATION.--Lat 45°45'01", long 116°19'26", in NE¹/₄NW¹/₄SW¹/₄ sec.22, T.28 N., R.1 E., Idaho County, White Bird quad., Hydrologic Unit 17060209, on left bank 0.1 mi upstream from White Bird Creek, 0.6 mi downstream from Canfield-Joseph highway bridge, 1 mi southwest of White Bird, and at mile 53.7.

DRAINAGE AREA.--13,550 mi², approximately, includes that of White Bird Creek. Mean elevation, 6,720 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to September 1917, October 1919 to current year.

REVISED RECORDS.--WSP 753: 1932. WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,412.65 ft above NGVD of 1929. Aug. 18, 1910 to Sept. 30, 1917 and Oct. 1, 1919 to Sept. 13, 1920, nonrecording gages at site 600 ft downstream at different datum. Sept. 14, 1920 to Jan. 2, 1931, nonrecording gage on highway bridge 200 ft upstream at datum 10 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 165,000 acres, of which about 1,200 acres are irrigated by withdrawals from ground water (1966 determination). Records include flow of White Bird Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft³/s June 17, 1974, gage height, 35.81 ft; minimum daily, 1,000 ft³/s Jan. 4, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	0645	*92,400	*31.34	No other peak greater than base discharge.			

Minimum, 2,670 ft³/s Dec. 11, gage height, 3.55 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3390	3170	3570	3920	6550	3840	8080	13600	81600	13200	4830	3480
2	3460	2980	3570	3780	8310	3920	10400	13300	71100	12600	4680	3420
3	3450	2850	3530	3740	8300	3830	10900	13300	63300	12000	4580	3370
4	3510	2870	3480	3880	7140	3810	10000	14000	57300	11400	4660	3320
5	3600	3170	3440	3990	6240	3760	9220	14600	52800	10900	4820	3280
6	3640	3490	3480	3950	5520	3770	8520	14300	49900	10300	4740	3270
7	3560	3710	3450	3760	4910	3780	7900	13600	48800	9840	4650	3280
8	3480	3830	3240	3470	4430	3920	7440	12900	48000	9530	4610	3420
9	3420	4110	2940	3190	4330	4170	7260	12600	47300	9510	4400	3690
10	3380	4170	2720	3050	4490	4450	7690	12600	46400	9040	4240	3790
11	3340	4030	2800	3000	4480	4800	9240	12700	44400	8510	4120	3810
12	3300	3930	3110	3150	4360	5380	11800	13100	41200	8100	4010	3780
13	3290	3850	3530	3430	4140	6350	15100	14300	38900	7730	3940	3700
14	3300	3810	3700	3830	4160	7630	16400	15600	36600	7420	3900	3600
15	3340	3780	3950	4340	4290	8690	15500	18800	34600	7210	3840	3520
16	3360	3720	4060	4190	4420	9170	13900	23600	33000	6990	3790	3490
17	3380	3660	4170	3910	4420	9010	12600	25900	31700	6760	3720	3460
18	3390	3640	3890	3600	4260	8200	11800	24800	30700	6540	3680	3520
19	3370	3630	3620	3380	4140	7380	11100	22600	29400	6310	3670	3530
20	3360	3620	3310	3200	4030	6820	10600	20900	29400	6140	3650	3520
21	3370	3640	3130	3150	4000	6490	10800	20300	27400	5980	3590	3480
22	3370	3780	3190	3340	4170	6440	12100	21500	24300	5780	3610	3420
23	3380	3890	3310	3670	4370	8170	14200	26300	22000	5590	4020	3360
24	3380	4090	3330	3980	4190	9430	16300	37600	20200	5440	4270	3300
25	3400	4090	3240	3990	3800	8650	17600	32800	18400	5370	4260	3260
26	3400	3800	3030	3870	3360	8140	18000	62800	17000	5560	3990	3220
27	3380	3450	2820	4530	3270	7830	17000	65500	15900	5990	3810	3180
28	3380	3260	3220	6400	3590	7280	15400	68500	15100	5940	3780	3140
29	3520	3300	4240	6730	---	6740	14300	76400	14400	5540	3810	3100
30	3540	3410	4430	5790	---	6450	13900	86100	13900	5250	3670	3080
31	3380	---	4090	5740	---	6540	---	90300	---	5020	3560	---
TOTAL	105820	108730	107590	123950	133670	194840	365050	935200	1105000	241490	126900	102790
MEAN	3414	3624	3471	3998	4774	6285	12170	30170	36830	7790	4094	3426
MAX	3640	4170	4430	6730	8310	9430	18000	90300	81600	13200	4830	3810
MIN	3290	2850	2720	3000	3270	3760	7260	12600	13900	5020	3560	3080
AC-FT	209900	215700	213400	245900	265100	386500	724100	1855000	2192000	479000	251700	203900
CFSM	0.25	0.27	0.26	0.30	0.35	0.46	0.90	2.23	2.72	0.57	0.30	0.25
IN.	0.29	0.30	0.30	0.34	0.37	0.53	1.00	2.57	3.03	0.66	0.35	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	4768	4919	4535	4237	4451	5549	11690	31770	38170	13470	5379	4400																																																																																		
MAX	8592	8254	10980	11240	8983	11680	27130	58950	82600	35470	8888	7077																																																																																		
(WY)	1963	1984	1996	1997	1996	1986	1943	1997	1974	1975	1965	1965																																																																																		
MIN	2952	3010	2749	2737	2875	3516	5401	10510	8803	3521	2299	2257																																																																																		
(WY)	1932	1932	1936	1932	1932	1955	1929	1977	1992	1931	1931	1994																																																																																		

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1910 - 2003
ANNUAL TOTAL	3199220	3651030	
ANNUAL MEAN	8765	10000	11120
HIGHEST ANNUAL MEAN			17870
LOWEST ANNUAL MEAN			5812
HIGHEST DAILY MEAN	53200	90300	129000
LOWEST DAILY MEAN	2720	2720	1000
ANNUAL SEVEN-DAY MINIMUM	3110	3110	1500
ANNUAL RUNOFF (AC-FT)	6346000	7242000	8057000
ANNUAL RUNOFF (CFSM)	0.65	0.74	0.82
ANNUAL RUNOFF (INCHES)	8.78	10.02	11.15
10 PERCENT EXCEEDS	24600	21700	28900
50 PERCENT EXCEEDS	3770	4190	5270
90 PERCENT EXCEEDS	3250	3300	3380

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1966 to 1994, April to September 2000, April to September 2001, December 2001 to November 2002, July to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1977 to September 1980 (discontinued).

WATER TEMPERATURE: October 1966 to September 1980, April to September 2000, April to September 2001, December 2001 to November 2002, June to September 2003 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 241 microsiemens/cm Dec. 27, 1978; minimum daily mean, 51 microsiemens/cm May 25, 1979.

WATER TEMPERATURE: Maximum, 28.0 °C July 31, Aug. 2, 1977; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum, 24.1 °C July 21-23, 25; minimum, 13.7 °C Sept. 22-23.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, Hach 2100AN NTU (99872)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Fecal coliform, M-FC 0.7u MF 100 mL (31625)	Hardness, unfltrd water, mg/L as CaCO3 (00900)	Calcium, unfltrd water, mg/L (00915)	Magnesium, unfltrd water, mg/L (00925)
JUL 08...	1010	9450	92	7.9	27.0	19.4	1.4	7.9	90	35	--	--	--
AUG 06...	0835	4780	129	8.0	22.0	21.8	14	9.5	115	37	--	--	--
SEP 03...	1630	3360	141	8.3	35.0	21.1	2.1	10.1	120	S8	61	18.6	3.45

Date	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, unfltrd fixed end pt, field, mg/L (00440)	Carbonate, unfltrd fixed end pt, field, mg/L (00445)	ANC, unfltrd fixed end pt, field, mg/L as CaCO3 (00410)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia, unfltrd water, mg/L as N (00608)	Ammonia + org-N, unfltrd water, mg/L as N (00625)	Nitrite + nitrate, unfltrd water, mg/L as N (00631)
JUL 08...	--	--	--	--	--	--	--	--	--	--	<.015	E.08	<.022
AUG 06...	--	--	--	--	--	--	--	--	--	--	<.015	.20	E.019
SEP 03...	6.02	17	1.29	74	.0	60	7.7	1.58	.4	12.3	<.015	.10	<.022

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)
JUL 08...	E.004	.015	4	102
AUG 06...	.009	.035	16	206
SEP 03...	E.005	.017	5	45

< Less than
E Estimated value
S Most probable value

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID--Continued

Temperature, water, degrees Celsius
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	19.6	17.8	18.7	23.6	22.1	22.8	21.6	19.4	20.5
2	---	---	---	19.4	18.1	18.8	23.1	22.2	22.6	21.6	19.6	20.6
3	---	---	---	19.4	18.1	18.8	22.4	21.5	21.9	21.4	19.9	20.7
4	---	---	---	19.3	17.7	18.6	22.6	20.9	21.7	21.1	19.8	20.5
5	11.9	11.1	11.5	19.4	18.0	18.8	22.6	21.2	21.9	21.2	19.8	20.4
6	12.2	11.4	11.8	19.9	18.3	19.1	23.4	21.6	22.4	21.9	20.1	21.0
7	12.6	11.7	12.1	20.4	18.6	19.5	23.2	21.7	22.4	21.3	19.8	20.5
8	12.6	12.0	12.3	20.4	19.3	19.9	23.1	21.2	22.1	20.3	18.7	19.4
9	13.1	12.0	12.5	20.9	19.1	20.1	23.2	21.4	22.3	18.7	17.3	17.9
10	13.4	12.5	12.9	21.1	19.8	20.5	23.4	21.4	22.3	17.8	16.9	17.4
11	13.6	12.6	13.0	21.6	20.3	20.9	23.6	21.2	22.2	18.0	16.9	17.4
12	13.6	12.8	13.2	22.2	20.6	21.3	23.1	21.1	22.0	17.7	16.6	17.1
13	14.2	13.1	13.5	22.1	21.1	21.5	23.2	21.1	22.0	17.0	15.4	16.2
14	15.1	12.9	13.8	22.4	20.6	21.5	23.2	20.7	21.9	16.7	15.0	15.9
15	15.9	13.1	14.2	22.7	20.9	21.8	22.9	20.9	22.0	17.0	15.4	16.2
16	---	---	---	23.1	21.2	22.1	22.9	20.9	21.9	16.5	15.4	15.9
17	---	---	---	23.2	21.4	22.2	22.7	20.6	21.6	15.7	14.6	15.2
18	---	---	---	23.6	21.4	22.5	22.9	20.6	21.8	15.4	14.0	14.7
19	---	---	---	23.9	22.1	22.9	23.2	21.1	22.1	15.4	14.0	14.8
20	---	---	---	23.9	21.6	22.8	23.2	21.1	22.1	15.6	14.0	14.8
21	---	---	---	24.1	21.7	23.0	22.6	20.7	21.7	15.4	13.9	14.7
22	---	---	---	24.1	22.1	23.2	21.8	21.1	21.4	15.3	13.7	14.6
23	---	---	---	24.1	22.4	23.2	22.1	20.6	21.2	15.3	13.7	14.6
24	---	---	---	23.6	21.6	23.0	22.2	20.4	21.3	15.6	14.0	14.8
25	---	---	---	24.1	22.6	23.2	22.4	20.6	21.4	15.9	14.2	15.0
26	15.0	12.8	13.9	23.2	22.2	22.6	22.4	20.7	21.5	16.1	14.3	15.3
27	16.1	14.0	15.0	23.1	21.6	22.3	22.2	20.4	21.3	16.2	14.5	15.4
28	17.3	15.3	16.2	23.6	22.1	22.8	21.6	19.9	20.8	16.1	14.6	15.4
29	18.5	16.4	17.3	23.2	22.1	22.7	21.4	19.4	20.4	16.2	14.8	15.5
30	19.1	17.5	18.3	23.4	22.1	22.7	21.7	19.3	20.4	16.2	14.8	15.6
31	---	---	---	23.6	21.9	22.7	21.7	19.4	20.6	---	---	---
MONTH	---	---	---	24.1	17.7	21.4	23.6	19.3	21.7	21.9	13.7	16.9

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WA

LOCATION.--Lat 46°05'50", long 116°58'36", in SE¹/₄SE¹/₄NE¹/₄ sec.12, T.7 N., R.46 E., Asotin County, Washington, Limekiln Rapids quad., Hydrologic Unit 17060103, on left bank 1.2 mi downstream from Grande Ronde River, 7.8 mi east of Anatone, 22 mi south of Clarkston, and at mile 167.2.

DRAINAGE AREA.--92,960 mi², approximately.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR ID-76-1: 1974 and 1975.

GAGE.--Water-stage recorder. Datum of gage is 806.78 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 4,090,000 acres of which about 750,000 acres are irrigated by withdrawals from ground water. Flow regulated by many reservoirs above station with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 117.8 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft³/s June 18, 1974, gage height, 24.45 ft; minimum, 6,010 ft³/s Sept. 2, 1958, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 156,000 ft³/s May 31, gage height, 20.53 ft; minimum, 10,800 ft³/s Oct. 13, gage height, 2.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20300	12900	13100	13800	37600	20500	33900	37700	131000	28200	16000	13600
2	17000	12600	13200	13600	37400	15400	39200	32100	117000	24500	17600	16100
3	16500	12500	13200	13600	36600	20500	41800	31300	104000	24300	13100	18100
4	16100	12400	13000	13800	34000	21400	37100	31700	92500	24300	13000	18000
5	17100	12600	12700	14100	30900	21500	35200	34600	84100	23900	16100	17800
6	15400	13000	12600	14400	28800	20500	34000	38500	80400	20700	16800	17500
7	12800	13300	12700	14700	27600	20000	32900	36500	79000	22700	19500	15700
8	17200	13500	12500	14700	27200	24300	30900	38300	77800	20900	19900	17000
9	16500	13900	12200	15300	22700	24200	31000	36600	77200	19300	19500	16100
10	18000	14100	12000	17300	18100	22700	31300	35500	76400	18700	18900	13300
11	17200	14000	11900	13000	21000	27800	32900	34300	74300	19800	19200	12900
12	13800	13800	12000	12700	22000	31000	34700	36400	70400	23000	17900	15200
13	11500	13700	12600	13000	21400	35900	34600	40800	66300	18400	13900	14500
14	12600	13600	13100	14000	19800	35200	38700	42200	59200	16400	15700	13400
15	12900	13600	13500	15500	19000	34900	42400	44000	57700	16000	14900	16400
16	12900	13500	13800	18500	18100	36100	40400	49900	57700	16700	16100	17200
17	12900	13500	14000	20900	18800	35400	38500	53700	56600	17000	12100	15000
18	13000	13400	13800	17600	21100	37900	34300	53200	54900	16300	13800	16600
19	13000	13300	13300	15400	23300	34600	30700	46700	49100	16800	17500	18100
20	13000	13400	13300	16900	22800	29900	31800	40000	49300	15000	16800	17700
21	13000	13300	12600	18900	21400	25700	32900	38800	49500	17800	14500	16100
22	13000	13300	12700	18800	23200	25400	37400	40800	41600	19000	12200	19400
23	13000	13600	12700	17100	23100	30800	38800	50300	45200	19800	12700	19800
24	12900	13700	12700	16100	22400	32900	41900	60000	42200	18000	13100	18600
25	13000	13900	12600	16600	23300	29700	41900	76200	37400	15400	14800	18100
26	13000	13700	12500	14300	20300	32100	43400	88200	35000	14200	24300	17200
27	13000	13300	12400	16900	19800	32700	42700	98700	30300	15000	17400	15900
28	13000	13100	12500	24300	20100	33300	41400	103000	28800	14300	17500	12900
29	13100	13000	13400	27400	---	26500	38400	114000	27300	15100	15300	13300
30	13200	13000	14300	28300	---	29300	40000	125000	27300	16800	13100	14200
31	13200	---	14200	33900	---	28100	---	147000	---	18100	13300	---
TOTAL	443100	400500	401100	535400	681800	876200	1105100	1736000	1879500	586400	496500	485700
MEAN	14290	13350	12940	17270	24350	28260	36840	56000	62650	18920	16020	16190
MAX	20300	14100	14300	33900	37600	37900	43400	147000	131000	28200	24300	19800
MIN	11500	12400	11900	12700	18100	15400	30700	31300	27300	14200	12100	12900
AC-FT	878900	794400	795600	1062000	1352000	1738000	2192000	3443000	3728000	1163000	984800	963400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
MEAN	21210	21880	24730	29220	33190	39530	48630	66280	71370	30460	17990	19320
MAX	31540	36960	41630	71930	72520	90400	88700	118700	134200	63860	29140	31730
(WY)	1985	1985	1965	1997	1965	1972	1974	1984	1984	1982	1997	1997
MIN	13090	13350	12940	16140	15780	18680	18880	20610	16850	12830	9765	10180
(WY)	2002	2003	2003	2001	2001	1977	1977	1977	1992	1977	1992	1992

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR 2004 WATER YEAR	FOR 2005 WATER YEAR	FOR 2006 WATER YEAR	FOR 2007 WATER YEAR	FOR 2008 WATER YEAR	FOR 2009 WATER YEAR	FOR 2010 WATER YEAR	FOR 2011 WATER YEAR	FOR 2012 WATER YEAR	FOR 2013 WATER YEAR
ANNUAL TOTAL	8929500	9627300	9627300	9627300	9627300	9627300	9627300	9627300	9627300	9627300	9627300	9627300
ANNUAL MEAN	24460	26380	26380	26380	26380	26380	26380	26380	26380	26380	26380	26380
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	84200	May 31	147000	May 31	191000	Jun 18 1974						
LOWEST DAILY MEAN	11300	Sep 8	11500	Oct 13	6630	Sep 1 1958						
ANNUAL SEVEN-DAY MINIMUM	12300	Dec 6	12300	Dec 6	7150	Aug 28 1958						
ANNUAL RUNOFF (AC-FT)	17710000		19100000		25560000							
10 PERCENT EXCEEDS	44800		43600		73700							
50 PERCENT EXCEEDS	18200		18100		25600							
90 PERCENT EXCEEDS	12900		13000		15100							

SNAKE RIVER MAIN STEM
13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to May 1984, October 1985 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1959 to May 1984, April 1986 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

REMARKS.--Records poor. Records rounded to the nearest half degree. Prior to October 1990, records furnished by U. S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 25.5 °C Aug. 26, 28, 1991, Aug. 2-4, 1994, Aug. 14, 1998; minimum, 0.0 °C several days during winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.5 °C July 28-30, Aug. 1, 17; minimum, 3.5 °C Jan. 8, 9, 11, 12, Feb. 7, 9-14, 24-27.

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.5	9.0	8.0	8.5	6.0	5.5	6.0	4.5	4.0	4.0
2	17.5	16.0	16.5	9.0	8.0	8.5	5.5	5.5	5.5	5.0	4.5	4.5
3	16.5	16.0	16.5	9.0	8.0	8.5	5.5	5.5	5.5	5.5	5.0	5.0
4	17.0	16.0	16.5	9.0	8.0	8.5	5.5	5.5	5.5	5.5	5.0	5.5
5	17.5	16.5	17.0	9.0	8.0	8.5	6.0	5.5	5.5	5.5	5.0	5.0
6	17.5	16.0	16.5	9.0	8.0	8.5	6.0	5.5	5.5	5.0	4.0	4.5
7	17.0	15.5	16.0	9.0	8.0	8.5	5.5	5.5	5.5	4.5	4.0	4.0
8	17.0	16.0	16.5	9.0	8.5	9.0	6.0	5.0	5.5	4.0	3.5	3.5
9	17.0	16.0	16.5	9.0	8.5	9.0	5.5	5.0	5.5	4.0	3.5	4.0
10	16.5	15.5	16.0	9.0	8.5	9.0	5.5	5.0	5.0	4.5	4.0	4.0
11	15.5	14.5	15.5	9.0	8.5	8.5	5.5	5.0	5.0	4.5	3.5	4.0
12	15.5	14.0	14.5	9.0	8.5	8.5	6.0	5.5	5.5	4.5	3.5	4.0
13	15.0	12.5	13.5	9.0	8.5	8.5	6.0	5.5	5.5	4.5	4.0	4.5
14	14.5	13.0	13.5	9.5	8.5	8.5	6.0	5.5	6.0	5.0	4.5	5.0
15	14.5	13.0	14.0	9.0	8.0	8.5	6.5	6.0	6.5	5.0	4.5	5.0
16	14.5	13.5	14.0	8.5	8.0	8.0	6.5	6.0	6.5	4.5	4.0	4.5
17	14.5	13.0	13.5	9.0	8.0	8.5	6.0	5.5	6.0	4.5	4.0	4.5
18	14.0	13.0	13.5	8.5	8.0	8.5	5.5	5.0	5.0	4.5	4.0	4.5
19	14.0	13.0	13.0	9.0	8.5	8.5	5.0	4.5	4.5	5.0	4.0	4.5
20	13.5	13.0	13.0	9.0	8.5	8.5	5.0	4.5	4.5	4.5	4.0	4.5
21	14.0	13.0	13.5	9.5	8.5	9.0	4.5	4.0	4.5	4.5	4.0	4.5
22	14.0	13.0	13.5	9.0	8.5	8.5	5.0	4.5	5.0	4.5	4.5	4.5
23	13.5	12.5	13.0	9.0	8.5	9.0	5.5	4.5	5.0	5.0	4.5	4.5
24	13.0	12.0	12.5	8.5	8.0	8.5	5.0	4.5	4.5	5.0	4.5	4.5
25	12.5	11.5	12.0	8.0	7.0	7.5	5.0	4.0	4.5	5.5	4.5	5.0
26	12.0	11.0	11.5	7.0	6.5	7.0	4.5	4.0	4.5	5.5	5.0	5.5
27	11.5	11.0	11.0	6.5	6.0	6.5	5.0	4.0	4.5	6.0	5.5	6.0
28	11.5	11.0	11.0	7.0	6.0	6.0	5.0	4.5	5.0	6.0	5.5	5.5
29	11.0	10.5	11.0	6.5	6.0	6.0	5.5	4.5	5.0	5.5	5.0	5.0
30	10.5	9.0	10.0	6.0	6.0	6.0	4.5	4.5	4.5	5.5	5.0	5.0
31	9.5	8.5	9.0	---	---	---	4.5	4.0	4.5	6.0	5.5	6.0
MONTH	18.0	8.5	13.9	9.5	6.0	8.2	6.5	4.0	5.2	6.0	3.5	4.7

