



**Figure 17.** Schematic diagram showing gaging stations in Snake River Basin between Palisades Reservoir and Idaho Falls

SNAKE RIVER MAIN STEM

13032500 SNAKE RIVER NEAR IRWIN, ID

LOCATION.--Lat 43°21'03", long 111°13'08", (NAD83), in NE¼NE¼ sec.7, T.1 S., R.45 E., Bonneville County, Palisades Dam quad., Hydrologic Unit 17040104, on right bank at U.S. Bureau of Reclamation headquarters, 1.5 mi downstream from Palisades Dam, 2 mi upstream from Palisades Creek, 5 mi southeast of Irwin, and at mile 900.2.

DRAINAGE AREA.--5,225 mi<sup>2</sup>.

PERIOD OF RECORD.--March to October 1935, April to October 1936, May 1949 to current year. Records for station "at Calamity Point, near Irwin" April to August 1934, April to October 1935, April to October 1936, March 1939 to September 1941 are equivalent to those for this station.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,353.00 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Mar. 30, 1935 to Oct. 31, 1936, water-stage recorder at site 3.5 mi downstream at different datum. May 1, 1949 to Mar. 22, 1950, nonrecording gage at site 1,100 ft downstream at datum 1.9 ft higher.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake and Palisades Reservoir. Diversion from tributaries above station for irrigation in Wyoming and Idaho of about 95,300 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft<sup>3</sup>/s June 19-22, 1997; maximum gage height, 15.25 ft, June 19, 20, 1997; minimum, 19 ft<sup>3</sup>/s Nov. 8, 1956, result of discharge measurement.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 probably was higher than that of June 19-22, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft<sup>3</sup>/s June 15, 16, gage height, 9.78 ft; minimum, 789 ft<sup>3</sup>/s Jan. 20, gage height, 4.26 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4090	1070	900	893	888	894	888	3510	9060	10600	9830	8860
2	4000	898	891	909	896	908	895	3730	9290	10600	9590	8860
3	3980	894	892	894	914	888	888	5080	9300	11100	9380	8840
4	3980	900	893	894	906	885	899	5500	9280	11600	9090	8870
5	4000	895	901	e890	895	901	893	5500	9260	11600	9080	8860
6	3990	893	903	891	897	897	893	5600	9290	12000	9090	8710
7	3980	902	902	908	895	897	896	5990	9300	12800	9090	8300
8	4000	894	895	896	892	901	891	5980	9280	13400	9080	8050
9	4000	896	910	890	895	903	896	5990	9270	13400	9210	7800
10	4000	902	906	895	902	893	898	5990	9260	13400	8940	7570
11	4000	895	904	897	900	888	896	5990	9960	13400	9320	7560
12	4020	901	896	899	883	899	898	5990	10900	13400	9330	7290
13	4030	907	893	902	889	908	1700	5990	11900	13400	9320	7010
14	4050	905	895	902	904	901	1990	5980	13400	13500	9310	7020
15	3850	896	902	905	895	900	2000	5990	14900	13400	9320	7000
16	3490	898	913	903	892	904	1990	5980	14000	13400	9190	7000
17	3490	896	897	899	895	908	2880	5990	13200	13400	8840	7000
18	3490	906	893	895	891	894	3000	6000	12600	13100	8830	6780
19	3340	914	904	895	891	882	3000	6000	12100	12800	8850	6380
20	3030	900	904	902	893	889	2590	5980	11400	12900	8840	5990
21	2700	902	887	899	889	903	1990	5990	10800	12900	8840	5970
22	2690	898	897	898	899	902	1990	6000	10600	12600	8820	5730
23	2680	895	886	894	905	903	1990	6000	10600	12100	8390	5490
24	2690	882	905	885	899	909	2000	6000	10600	11900	8380	5480
25	2690	906	891	896	897	918	2950	6000	10500	11500	8570	5480
26	2690	909	891	890	895	904	3000	5990	10600	11200	8730	5270
27	2690	903	899	891	893	890	3000	6580	10600	11200	8790	5010
28	2700	903	891	894	896	894	2990	7550	10600	10900	8840	4990
29	2310	901	894	894	---	907	2990	8530	10600	10600	8870	5010
30	1760	894	895	892	---	909	3290	8950	10600	10200	8870	4780
31	1350	---	889	903	---	885	---	8960	---	10200	8880	---
TOTAL	103760	27155	27819	27795	25086	27864	56071	189310	323050	378500	279510	206960
MEAN	3347	905	897	897	896	899	1869	6107	10770	12210	9016	6899
MAX	4090	1070	913	909	914	918	3290	8960	14900	13500	9830	8870
MIN	1350	882	886	885	883	882	888	3510	9060	10200	8380	4780
AC-FT	205800	53860	55180	55130	49760	55270	111200	375500	640800	750800	554400	410500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

	3234	2114	2120	2199	2350	3444	5921	11960	14830	12970	8947	6544
MEAN	3234	2114	2120	2199	2350	3444	5921	11960	14830	12970	8947	6544
MAX	7716	4958	5485	5620	10130	13090	15760	20540	29550	17750	12400	9652
(WY)	1972	1984	1984	1984	1997	1997	1971	1956	1997	1971	1966	1990
MIN	1178	796	713	702	715	607	1011	2949	9600	8757	6539	3439
(WY)	1978	1989	1989	1989	1989	1977	1963	1993	2004	1940	2001	1940

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1935 - 2005

ANNUAL TOTAL	1764277	1672880										
ANNUAL MEAN	4820	4583								6411		
HIGHEST ANNUAL MEAN										10710		1997
LOWEST ANNUAL MEAN										4394		1940
HIGHEST DAILY MEAN			19000							40300		Jun 20 1997
LOWEST DAILY MEAN			882		May 23		14900		Jun 15	19		Nov 8 1956
ANNUAL SEVEN-DAY MINIMUM			893		Nov 24		892		Nov 24	37		Nov 4 1956
ANNUAL RUNOFF (AC-FT)	3499000				Dec 25		892		Mar 31			
10 PERCENT EXCEEDS	10800									4645000		
50 PERCENT EXCEEDS	2860									13800		
90 PERCENT EXCEEDS	901									4340		
										1110		

e Estimated

SNAKE RIVER MAIN STEM

13037500 SNAKE RIVER NEAR HEISE, ID

LOCATION.--Lat 43°36'45", long 111°39'36", (NAD83), in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.5, T.3 N., R.41 E., Bonneville County, Poplar quad., Hydrologic Unit 17040104, on left bank 850 ft upstream from Anderson Canal headgate, 2.4 mi upstream from Heise, 6 mi east of Ririe, 24 mi upstream from Henrys Fork, and at mile 853.6.

DRAINAGE AREA.--5,752 mi<sup>2</sup>. Mean elevation, 7,770 ft.

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "South Fork of Snake River near Heise."

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1912.

GAGE.--Water-stage recorder. Datum of gage is 5,015.3 ft above NGVD of 1929. Prior to July 9, 1913, nonrecording gage, and July 9, 1913 to Sept. 29, 1922, water-stage recorder at datum 2.65 ft higher. Sept. 30, 1922 to Sept. 30, 1933, water-stage recorder at datum 2.0 ft higher.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Some diurnal fluctuations occur during winter powerplant operations at Palisades. Riley Ditch, 1.5 mi upstream, was not in operation during the year. Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 104,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 60,000 ft<sup>3</sup>/s May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, about 16.0 ft, present datum; minimum, 460 ft<sup>3</sup>/s Nov. 10, 12, 1956, gage height, -0.18 ft.

Maximum discharge since filling of Palisades Reservoir (Nov. 1956), 43,500 ft<sup>3</sup>/s June 13, 1997, gage height, 11.26 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 estimated as 65,000 ft<sup>3</sup>/s by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft<sup>3</sup>/s June 15, gage height, 5.79 ft; minimum daily, 1,250 ft<sup>3</sup>/s Jan. 15.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4590	1680	1340	1350	1340	1390	1330	4390	10400	11400	10800	9410
2	4310	1500	1350	1360	1330	1350	1350	4430	10700	11400	10400	9530
3	4280	1420	1340	1370	1340	1350	1360	5460	10600	11500	10300	9520
4	4270	1420	1340	1350	1360	1340	1410	6450	10600	12200	9920	9580
5	4280	1410	1340	1350	1360	1350	1390	6520	10500	12100	9890	9580
6	4280	1400	1350	1350	1340	1350	1370	6600	10700	12300	9900	9520
7	4260	1400	1350	1350	1360	1350	1380	7190	10700	13000	9890	9160
8	4280	1400	1350	1370	1340	1350	1410	7280	10700	13600	9910	8830
9	4290	1390	1360	1360	1340	1360	1380	7280	10600	13700	9950	8750
10	4290	1400	1380	1350	1350	1380	1370	7390	10600	13700	10100	8380
11	4290	1400	1370	1350	1340	1390	1360	7390	11000	13700	9780	8350
12	4320	1400	1360	1350	1370	1410	1360	7370	11900	13600	10100	8250
13	4320	1390	1350	1360	1340	1410	1670	7250	12900	13600	10100	7770
14	4330	1400	1340	e1300	1350	1400	2690	7180	14000	13700	10100	7750
15	4270	1380	1360	e1250	e1340	1390	2680	7200	15200	13600	10100	7730
16	3910	1380	1360	e1300	e1300	1380	2660	7510	15100	13700	10200	7700
17	3820	1380	1360	e1350	e1300	1380	3220	7810	14300	13700	9630	7760
18	3850	1370	1340	1370	e1350	1370	3900	7600	13700	13600	9610	7650
19	3790	1380	1350	1370	1380	1360	3840	7620	13200	13100	9590	7210
20	3590	1380	1360	1370	1360	1360	3800	7770	12600	13400	9550	6720
21	3150	1360	1350	1370	1350	1370	2810	7890	12000	13300	9540	6730
22	3070	1350	e1300	1350	1340	1370	2700	7750	11700	13200	9530	6580
23	3100	1360	e1300	1350	1340	1400	2740	7670	11600	12800	9160	6180
24	3090	1360	e1350	1350	1350	1410	2810	7600	11600	12500	9020	6210
25	3070	1380	1370	1350	1350	1370	3460	7430	11500	12300	9080	6180
26	3070	1380	1350	1350	1340	1380	4000	7300	11500	11900	9360	6090
27	3060	1370	1360	1350	1340	1350	4010	7540	11500	11900	9380	5680
28	3120	1360	1360	1360	1360	1350	4030	8410	11500	11700	9500	5620
29	3050	1340	1350	1350	---	1370	3960	9520	11500	11500	9520	5620
30	2410	1330	1360	1350	---	1370	4010	10200	11400	11000	9530	5560
31	2100	---	1360	1350	---	1350	---	10200	---	11000	9540	---
TOTAL	115910	41870	41860	41810	37660	42510	75460	229200	355800	393700	302980	229600
MEAN	3739	1396	1350	1349	1345	1371	2515	7394	11860	12700	9774	7653
MAX	4590	1680	1380	1370	1380	1410	4030	10200	15200	13700	10800	9580
MIN	2100	1330	1300	1250	1300	1340	1330	4390	10400	11000	9020	5560
AC-FT	229900	83050	83030	82930	74700	84320	149700	454600	705700	780900	601000	455400
MEAN†	3739	3169	2911	2799	2587	2847	5538	16732	15269	7087	4243	3851
AC-FT†	247400	94370	97400	98050	86130	96160	196300	721000	783600	662200	522400	378400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
3646	2788	2641	2581	2650	3404
6268	13240	16830	13330	9222	6457
8179	5758	6270	6233	10520	13760
1972	1984	1984	1984	1997	1971
1666	1183	1064	1084	1040	983
1978	1989	1989	1989	1988	1977

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1911 - 2005
ANNUAL TOTAL	1938280	1908360	
ANNUAL MEAN	5296	5228	6940
ADJUSTED ANNUAL TOTAL†	1974430	2158300	
ADJUSTED ANNUAL MEAN†	5408	5913	
HIGHEST ANNUAL MEAN			11590
LOWEST ANNUAL MEAN			4117
HIGHEST DAILY MEAN	19700	May 24	51600
LOWEST DAILY MEAN	1100	Feb 12	460
ANNUAL SEVEN-DAY MINIMUM	1250	Feb 10	481
ANNUAL RUNOFF (AC-FT)	3845000	3785000	5028000
10 PERCENT EXCEEDS	11300	11600	14800
50 PERCENT EXCEEDS	3370	3220	4310
90 PERCENT EXCEEDS	1290	1350	1720

e Estimated

† Adjusted for storage in Jackson Lake and Palisades Reservoir; no account taken for travel time between reservoirs and Heise gaging station.

SNAKE RIVER MAIN STEM  
13038000 DRY BED NEAR RIRIE, ID

LOCATION.--Lat 43°38'20", long 111°42'58" (revised), (NAD83), in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.35, T.4 N., R.40 E., Jefferson County, Heise quad., Hydrologic Unit 17040201, on right bank 30 ft downstream from county road bridge, 1.3 mi downstream from head, and 2.7 mi east of Ririe.

PERIOD OF RECORD.--1923-27 and miscellaneous measurements during 1970-72 (formerly published as "Great Feeder Canal"), October 1976 to current year (irrigation seasons only prior to 1977).

GAGE.--Water-stage recorder. Elevation of gage is 4,985 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Canal occupies an old high water channel of Snake River and is a diversion or feeder canal from Snake River to a group of canals. Flow from Snake River regulated by headgates 1.3 mi upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,090 ft<sup>3</sup>/s June 20, 1986, July 10, 1998; no flow Apr. 3-12, 1997, Apr. 9-10, 1998, Apr. 2-18, 2000, Apr. 1-4, 2001, Apr. 2-12, 2002, Apr. 9-13, 2005.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	286	249	190	230	277	56	952	4290	3880	3080	2700
2	1800	274	249	189	257	275	43	1250	4380	4110	2900	2740
3	1790	268	248	189	257	275	16	1680	4380	4160	2690	2730
4	1790	267	248	189	257	274	17	1870	4420	4280	2630	2580
5	1790	266	248	189	261	273	15	1920	4520	4270	2620	2600
6	1780	265	247	189	271	273	11	2210	4410	4280	2610	2580
7	1780	264	247	189	272	272	4.9	2510	4310	4390	2600	2370
8	1850	263	247	216	270	273	5.3	2650	4290	4400	2590	2320
9	1920	262	246	230	271	272	0.00	2730	4120	4290	2750	2100
10	2040	263	247	189	271	273	0.00	2740	3910	4250	2870	1990
11	2140	263	247	189	270	274	0.00	2750	3720	4110	2760	1990
12	2140	262	246	164	273	275	0.00	2740	3740	4280	2690	1940
13	2140	262	246	e80	270	275	0.00	2660	3910	4370	2730	1900
14	2150	262	245	e80	271	275	5.0	2640	3560	4310	2710	1920
15	2130	261	245	e80	269	274	3.1	2720	3480	4290	2570	1910
16	2000	260	245	e80	e270	273	3.3	2770	3520	4280	2470	1900
17	1970	259	245	e80	e270	273	5.2	2580	3910	4090	2540	1880
18	1980	259	244	83	e270	273	11	2430	3960	4050	2610	1880
19	1970	259	245	81	204	271	10	2430	3970	4010	2520	1880
20	1890	258	246	80	161	271	11	2450	4080	3860	2470	1890
21	1700	257	245	79	187	239	87	2470	4340	3850	2470	1900
22	1650	255	245	133	276	171	222	2490	4330	3670	2440	1890
23	1670	255	e245	164	275	271	386	2710	4390	3530	2440	1840
24	1660	255	e245	164	277	270	447	2920	4510	3500	2430	1810
25	1650	256	e245	163	276	265	467	3140	4530	3340	2490	1810
26	1650	256	241	163	275	266	530	3400	4520	3240	2570	1810
27	1640	254	217	162	276	263	716	3650	4500	3230	2630	1820
28	1380	250	184	162	276	263	797	4200	4210	3240	2630	1780
29	798	251	157	161	---	265	804	4190	4000	3190	2630	1710
30	500	e250	126	161	---	265	900	4160	3880	3150	2600	1680
31	310	---	187	174	---	230	---	4100	---	3170	2630	---
TOTAL	53518	7822	7267	4642	7263	8239	5572.80	84112	124090	121070	81370	61850
MEAN	1726	261	234	150	259	266	186	2713	4136	3905	2625	2062
MAX	2150	286	249	230	277	277	900	4200	4530	4400	3080	2740
MIN	310	250	126	79	161	171	0.00	952	3480	3150	2430	1680
AC-FT	106200	15510	14410	9210	14410	16340	11050	166800	246100	240100	161400	122700
CAL YR 2004	TOTAL	568078	MEAN	1552	MAX	4360	MIN	18	AC-FT	1127000		
WTR YR 2005	TOTAL	566815.80	MEAN	1553	MAX	4530	MIN	0.00	AC-FT	1124000		

e Estimated



## HENRYS FORK BASIN

13039000 HENRYS LAKE NEAR LAKE, ID

LOCATION.--Lat 44°35'50", long 111°21'13"(revised), (NAD83), in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.26, T.15 N., R.43 E., Fremont County, Big Springs quad., Hydrologic Unit 17040202, at dam on Henrys Fork, and 5.2 mi south of former Post Office at Lake, Idaho.

DRAINAGE AREA.--99.0 mi<sup>2</sup>, including 6.2 mi<sup>2</sup> of Dry Creek basin.

PERIOD OF RECORD.--June 1923 to current year (fragmentary).

REVISED RECORDS.--WDR Idaho 1982: 1981 (contents).

GAGE.--Water-stage recorder. Datum of gage is 6,457.16 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation).  
Prior to June 28, 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed on natural lake by concrete dam supported by downstream earth-fill dam. Storage began Sept. 21, 1922; dam completed July 1923. Capacity is 90,420 acre-ft between gage heights 0.00 (low-water level of Henrys Lake prior to construction of dam) and 16.7 ft, top of 4.7 ft flashboards on spillway. Floodwaters of Dry Creek are diverted into Henrys Lake at times. Water used for irrigation near St. Anthony. Records given herein represent usable contents.

COOPERATION.--Capacity table and occasional reservoir elevations provided by North Fork Reservoir Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 92,300 acre-ft June 4, 1981, July 10, 11, 1983, gage height, 16.98 ft; minimum observed, 140 acre-ft Nov. 8, 1934, gage height, 0.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 90,300 acre-ft July 13, gage height, 16.68 ft; maximum gage height, 16.88 ft, July 17 (wind affected); minimum contents, 58,300 acre-ft Oct. 5, 6, gage height, 11.59 ft.

## Capacity table (gage height in feet, and contents, in acre-feet)

11.00	54,800
13.00	66,900
15.00	79,400
17.00	92,500

Reservoir storage, acre feet  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58500	60200	61600	64400	66100	67200	69500	72800	79700	88800	e87200	83600
2	58500	60200	61700	64300	66200	67200	69500	72900	80100	89000	87300	e83600
3	58500	60400	61800	64500	66100	67300	69600	e72900	80600	e89000	87200	83500
4	58400	60400	61800	e64400	e66200	e67400	e69800	72900	80800	88900	87000	83400
5	58300	e60400	e61800	64400	e66200	67500	69900	73000	81000	89000	86800	83300
6	58300	60400	61800	64500	66200	67500	69800	e73200	81700	e89100	86700	83200
7	58500	60700	61900	64700	66400	67600	69900	73400	81900	89200	86600	83100
8	58500	60700	62300	65000	66300	e67600	70300	73300	82500	e89400	86400	82900
9	e58500	60700	e62400	65100	e66600	67500	70300	73600	82600	89800	86300	82900
10	e58500	60700	62400	65000	66600	67600	70300	e73800	82600	90100	86200	82900
11	58500	e60800	62500	e65100	66500	e67700	70300	e73900	83400	90100	e86200	82800
12	e58400	60800	62600	65200	e66600	e67800	70400	74100	83700	e90200	86200	82600
13	58400	60800	62600	65200	66700	67800	70500	74300	83800	90300	85600	82800
14	e58400	60800	62500	65200	66700	e67800	70800	74500	83800	89800	85400	82800
15	58400	60800	62600	65200	66700	67900	70900	74700	84200	89400	85200	e82800
16	58500	61000	62700	e65300	66800	67900	71000	75100	84600	e89400	85200	82800
17	e58500	61000	62800	65300	66800	68000	71100	75300	85000	89400	e85200	82900
18	58500	e61000	62800	65300	e66900	68000	71700	75300	85000	89200	e85200	82900
19	58800	e61100	62800	65600	66900	68100	71700	76100	85000	89300	85200	82900
20	59200	61100	62900	65500	66900	68200	71800	e76400	85400	89000	85000	e82900
21	59300	61200	e63100	65600	67000	68200	72100	76700	86100	e89000	84900	e82900
22	e59500	61200	63200	65600	67100	68500	72100	77100	e86200	88800	84900	e82900
23	59700	61200	63200	e65600	67000	e68600	72400	77600	86900	88700	84700	e82800
24	59700	61300	63100	65700	67000	68800	72400	e77600	87200	88700	84600	e82800
25	59800	61400	63200	65800	67200	68800	72600	77600	87400	88600	84400	e82800
26	e59800	61500	63200	65800	67200	69000	e72600	77800	87800	88100	84300	e82800
27	59800	61500	63200	65800	67200	69300	72700	78000	87800	87900	84200	e82800
28	60000	61500	63300	65900	67200	69200	72700	78100	e88100	87700	84100	e82800
29	60100	61600	63500	66000	---	69300	72900	78700	88400	87600	83900	82800
30	e60100	61600	64100	e66000	---	69300	e72900	78700	88600	87300	83900	82600
31	e60200	---	64100	66100	---	e69400	---	79100	---	87200	83800	---
MAX	60200	61600	64100	66100	67200	69400	72900	79100	88600	90300	87300	83600
MIN	58300	60200	61600	64300	66100	67200	69500	72800	79700	87200	83800	82600
†	--	12.13	12.55	12.87	13.05	--	--	14.96	16.43	16.22	15.69	15.51
‡	1730	1390	2550	1940	1100	2230	3460	6240	9540	-1410	-3460	-1150
CAL YR 2004	MAX 79000	MIN 57600	† -2370									
WTR YR 2005	MAX 90300	MIN 58300	† 24160									

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



HENRYS FORK BASIN

13042500 HENRYS FORK NEAR ISLAND PARK, ID

LOCATION.--Lat 44°25'00", long 111°23'41", (NAD83), in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.28, T.13 N., R.43 E., Fremont County, Island Park Dam quad., Hydrologic Unit 17040202, Targhee National Forest, on left bank 0.2 mi downstream from Island Park Dam, 0.2 mi upstream from Buffalo River, 1 mi southwest of Island Park Post Office, and at mile 91.5.

DRAINAGE AREA.--481 mi<sup>2</sup>. Mean elevation, 7,080 ft.

PERIOD OF RECORD.--January 1933 to current year.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,225 ft above NGVD of 1929, from river-profile map. Prior to May 15, 1935, non-recording gage at site about 0.8 mi upstream at different datum. May 15 to Nov. 30, 1935, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir. Diversions above station for irrigation of about 15,500 acres (1966 determination), a considerable part of which consists of partly sub-irrigated meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft<sup>3</sup>/s May 23, 1984, gage height, 6.06 ft; minimum daily, 1.0 ft<sup>3</sup>/s Nov. 16 to Dec. 7, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft<sup>3</sup>/s July 18, 23, 26-28; maximum gage height, 5.08 ft, July 26, 27; minimum daily, 189 ft<sup>3</sup>/s Oct. 2, 3, Dec. 30.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	280	241	200	226	227	238	258	993	968	1260	691
2	189	274	236	201	232	235	231	254	1010	958	1130	690
3	189	273	235	201	237	240	232	261	1020	995	975	678
4	198	269	231	202	231	229	239	261	994	1070	922	671
5	201	261	227	209	218	231	243	257	965	1060	919	673
6	207	254	224	211	226	233	238	252	985	1130	912	671
7	205	256	218	217	226	229	226	259	1040	1250	900	672
8	209	256	217	214	228	229	215	308	1080	1310	900	667
9	212	248	212	212	229	224	224	494	1060	1360	906	664
10	217	249	202	207	238	221	222	511	1020	1400	910	668
11	226	253	201	207	239	226	229	515	992	1460	931	681
12	227	252	201	219	230	228	230	513	991	1440	925	678
13	237	250	202	220	226	232	220	514	985	1430	917	672
14	269	251	201	219	231	242	228	504	962	1430	911	670
15	294	251	202	227	245	237	237	498	947	1440	903	662
16	302	246	201	220	250	230	234	496	965	1440	794	651
17	307	240	199	214	248	228	226	627	975	1460	711	649
18	314	242	200	209	247	233	231	994	978	1470	712	657
19	319	239	208	207	240	228	245	980	982	1470	727	647
20	314	242	210	207	231	224	239	953	979	1470	712	639
21	286	251	216	211	235	228	241	957	967	1470	697	515
22	275	245	216	217	233	229	235	991	940	1460	694	429
23	279	242	224	214	237	230	236	1060	933	1470	693	425
24	282	242	221	215	234	237	234	1150	931	1470	696	435
25	291	239	215	217	235	235	232	1160	929	1470	698	440
26	288	239	213	222	236	242	222	1110	946	1480	702	437
27	279	243	204	221	233	238	225	1040	957	1480	693	423
28	274	239	197	216	231	240	256	1000	973	1470	690	425
29	284	243	190	215	---	243	261	969	979	1460	690	420
30	279	243	189	214	---	242	257	980	974	1350	685	413
31	280	---	198	221	---	246	---	983	---	1270	697	---
TOTAL	8066	7512	6551	6606	6552	7216	7026	21109	29452	41861	25612	17713
MEAN	260	250	211	213	234	233	234	681	982	1350	826	590
MAX	333	280	241	227	250	246	261	1160	1080	1480	1260	691
MIN	189	239	189	200	218	221	215	252	929	958	685	413
AC-FT	16000	14900	12990	13100	13000	14310	13940	41870	58420	83030	50800	35130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2005, BY WATER YEAR (WY)

	425	316	281	268	304	330	483	990	995	1155	1122	726
MEAN	425	316	281	268	304	330	483	990	995	1155	1122	726
MAX	895	862	672	691	814	862	924	1974	2132	2070	2183	1368
(WY)	1973	1998	1999	1998	1997	1997	1974	1997	1984	1984	1983	1945
MIN	8.14	2.03	1.90	5.74	7.79	9.26	37.2	273	438	485	349	312
(WY)	1980	1980	1939	1939	1939	1939	1941	2004	1934	1934	1934	1990

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1933 - 2005

ANNUAL TOTAL	177692	185276		
ANNUAL MEAN	485	508	621	
HIGHEST ANNUAL MEAN			1045	1984
LOWEST ANNUAL MEAN			398	1941
HIGHEST DAILY MEAN	1370	Jul 14	1480	Jul 26
LOWEST DAILY MEAN	156	May 6	189	Oct 2
ANNUAL SEVEN-DAY MINIMUM	160	May 4	197	Dec 28
ANNUAL RUNOFF (AC-FT)	352500	367500	449500	
10 PERCENT EXCEEDS	1180	1050	1300	
50 PERCENT EXCEEDS	233	253	531	
90 PERCENT EXCEEDS	186	212	15	



HENRY'S FORK BASIN

13046000 HENRY'S FORK NEAR ASHTON, ID

LOCATION.--Lat 44°04'11", long 111°30'38", (NAD83), in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.33, T.9 N., R.42 E., Fremont County, Lemon Lake quad., Hydrologic Unit 17040203, on left bank 0.8 mi downstream from powerplant, 3.1 mi west of Ashton, and at mile 44.2.

DRAINAGE AREA.--1,040 mi<sup>2</sup>. Mean elevation, 6,710 ft.

PERIOD OF RECORD.--April 1890 to June 1891, August 1902 to June 1909, April 1920 to current year (seasonal records only 1920-26). Monthly discharge only for some periods, published in WSP 1317. Published as "Henry's Fork in canyon, above Fall River", 1890-91, and as "North Fork of Snake River near Ora", 1902-09. Published as station number 13046023 from 1981-92.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1890-91. WDR ID-95-1: 1993 (M).

GAGE.--Water-stage recorder. Elevation of gage is 5,090 ft above NGVD of 1929, from topographic map. April 1890 to June 1891, nonrecording gage at site 5.5 mi downstream at different datum. August 1902 to Apr. 15, 1921, nonrecording gage, and Apr. 16, 1921 to May 3, 1930, water-stage recorder at site 1.0 mi downstream at different datum. May 3, 1930 to Sept. 30, 1980, water-stage recorder at site 0.5 mi upstream at different datum.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Diurnal fluctuation caused by powerplant above station. Flow regulated by Henry's Lake (see sta 13039000), Island Park Reservoir, and by Ashton Dam, 0.8 mi upstream. Diversions above station for irrigation of about 24,500 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1891-1922), 6,000 ft<sup>3</sup>/s May 8, 1890; minimum daily, 910 ft<sup>3</sup>/s Feb. 4, 1906.

Maximum discharge since regulation began in 1923, 8,140 ft<sup>3</sup>/s May 15, 1984, gage height, 6.50 ft; minimum, 53 ft<sup>3</sup>/s Sept. 20, 1960, gage height, 5.45 ft, site and datum then in use; minimum daily, 171 ft<sup>3</sup>/s Oct. 18, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,080 ft<sup>3</sup>/s May 19, gage height, 4.45 ft; minimum, 336 ft<sup>3</sup>/s Feb. 14, gage height, 1.96 ft; minimum daily, 763 ft<sup>3</sup>/s Oct. 15.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	967	1000	943	905	884	936	1620	2250	1780	2030	1540
2	1000	984	966	998	909	903	936	1640	2170	1760	2160	1550
3	892	968	e1050	977	867	902	1000	1650	2120	1740	1850	1520
4	1020	959	e1050	919	929	910	1130	1660	2180	1850	1720	1540
5	1190	985	e1000	825	964	908	1110	1710	2080	1810	1730	1520
6	1190	985	e1000	972	902	908	1010	1760	2330	1830	1720	1500
7	1170	955	e1100	933	909	906	1040	1850	2390	1990	1750	1530
8	1170	964	e1100	1020	908	900	1130	1770	2340	2060	1730	1510
9	1010	990	e1000	978	916	897	1110	1920	2270	2170	1770	1520
10	959	990	e1000	989	844	909	1070	2230	2200	2180	1760	1520
11	1020	963	e1050	992	923	915	1010	2000	2100	2300	1800	1510
12	926	971	e1000	896	980	944	1080	1990	2300	2300	1790	1520
13	864	994	e950	883	899	910	1150	1960	2310	2310	1720	1500
14	796	977	e1150	942	977	908	1250	1910	2130	2290	1790	1500
15	763	961	e1400	799	834	905	1200	1860	2080	2280	1740	1490
16	777	949	e950	997	845	907	1180	2100	2050	2260	1740	1490
17	785	968	975	1030	844	905	1260	2370	2030	2350	1600	1470
18	795	970	962	982	922	908	1390	2650	2030	2280	1620	1550
19	822	963	961	980	1020	927	1410	2970	1980	2280	1660	1460
20	1030	971	969	936	956	982	1440	2750	1970	2330	1580	1460
21	1090	883	896	910	925	949	1390	2680	1940	2290	1560	1440
22	1010	982	972	935	903	949	1410	2510	1950	2300	1560	1290
23	1080	1000	803	938	896	997	1570	2580	1950	2250	1550	1190
24	1110	951	901	900	893	964	1690	2480	1900	2290	1550	1280
25	998	1030	1030	898	902	962	2180	2540	1860	2330	1540	1230
26	984	977	993	934	902	937	2450	2380	1860	2290	1520	1190
27	992	987	1020	933	921	964	2260	2330	1850	2290	1580	1230
28	983	849	991	927	906	957	1870	2220	1880	2340	1530	1150
29	1090	828	1000	934	---	1040	1770	2200	1870	2310	1530	1210
30	1090	993	978	932	---	991	1700	2100	1810	2360	1550	1190
31	1030	---	1030	902	---	928	---	2100	---	2130	1540	---
TOTAL	30846	28914	31247	29134	25501	28876	41132	66490	62180	67330	52270	42600
MEAN	995	964	1008	940	911	931	1371	2145	2073	2172	1686	1420
MAX	1210	1030	1400	1030	1020	1040	2450	2970	2390	2360	2160	1550
MIN	763	828	803	799	834	884	936	1620	1810	1740	1520	1150
AC-FT	61180	57350	61980	57790	50580	57280	81590	131900	123300	133500	103700	84500

## HENRYS FORK BASIN

## 13046000 HENRYS FORK NEAR ASHTON, ID--Continued

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1922, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1209	1172	1135	1121	1106	1089	1548	2743	2154	1425	1243	1210
MAX	1321	1273	1270	1270	1270	1270	2028	4167	2697	1618	1434	1351
(WY)	1905	1905	1891	1891	1891	1891	1907	1904	1909	1907	1922	1921
MIN	1039	990	990	990	979	938	1172	1663	1345	1085	1034	995
(WY)	1906	1906	1906	1906	1906	1906	1920	1905	1905	1905	1905	1905

## SUMMARY STATISTICS

<sup>a</sup> WATER YEARS 1891 - 1922

ANNUAL MEAN	1395
HIGHEST ANNUAL MEAN	1600
LOWEST ANNUAL MEAN	1223
HIGHEST DAILY MEAN	5370
LOWEST DAILY MEAN	910
ANNUAL SEVEN-DAY MINIMUM	910
MAXIMUM PEAK FLOW	6000
ANNUAL RUNOFF (AC-FT)	1010000
10 PERCENT EXCEEDS	2400
50 PERCENT EXCEEDS	1260
90 PERCENT EXCEEDS	990

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY) (REGULATED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1215	1104	1042	1018	1051	1099	1610	2615	2094	1942	1899	1512
MAX	1830	2067	1704	1758	1760	1910	2768	5256	4511	3223	3212	2250
(WY)	1998	1972	1998	1997	1997	1997	1997	1997	1984	1984	1984	1945
MIN	753	633	630	624	624	648	901	966	1032	1019	898	842
(WY)	1967	1959	1941	1942	1939	1942	1967	1934	1934	1934	1934	1934

## SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

<sup>b</sup> WATER YEARS 1923 - 2005

ANNUAL TOTAL	486981	506520
ANNUAL MEAN	1331	1388
HIGHEST ANNUAL MEAN		1528
LOWEST ANNUAL MEAN		2361
HIGHEST DAILY MEAN		996
LOWEST DAILY MEAN	2300	2970
ANNUAL SEVEN-DAY MINIMUM	736	763
MAXIMUM PEAK FLOW	796	800
ANNUAL RUNOFF (AC-FT)	965900	1005000
10 PERCENT EXCEEDS	2020	2260
50 PERCENT EXCEEDS	1170	1110
90 PERCENT EXCEEDS	829	903

a Unregulated; summary statistics include April to September 1890.

b Regulated

e Estimated

HENRY'S FORK BASIN

13046995 FALLS RIVER ABOVE YELLOWSTONE CANAL NEAR SQUIRREL, ID

LOCATION.--Lat 44°03'43", long 111°09'07", (revised), (NAD83), NW¼NW¼SW¼ sec.33, T.9 N., R.45 E., Fremont County, Porcupine Lake quad., Hydrologic Unit 17040203, on right bank, approximately 475 ft above the diversion of the Yellowstone Canal, about 7 mi northeast of Squirrel.

DRAINAGE AREA.--328 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,780 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Station is above all diversions from Falls River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,940 ft<sup>3</sup>/s May 30, 1997, gage height, 9.28 ft; minimum daily, 290 ft<sup>3</sup>/s Nov. 20, 21, 22, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,280 ft<sup>3</sup>/s May 22, gage height, 8.08 ft; minimum daily, 310 ft<sup>3</sup>/s Feb. 15.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	e560	e480	e410	382	403	391	1220	2270	1020	680	564
2	554	555	e480	423	e380	391	408	1260	2370	976	656	559
3	559	552	e480	427	e380	389	438	1300	2010	951	657	563
4	566	554	e480	418	e380	392	478	1440	1770	884	641	567
5	564	555	e480	e400	382	388	445	1600	1700	847	628	560
6	560	554	e480	e380	e380	390	422	1720	2020	817	621	558
7	556	550	e520	e400	377	392	471	1850	2120	802	615	562
8	557	547	e490	e420	372	389	552	1820	1910	782	610	569
9	556	557	e490	e420	369	396	499	1780	1740	773	620	564
10	556	569	501	415	e380	410	460	2090	1610	791	622	575
11	558	567	536	413	e380	411	450	2030	1510	774	623	566
12	546	556	514	e400	377	415	472	1920	1710	753	595	580
13	542	548	487	e370	383	397	553	1660	1900	745	597	582
14	541	540	478	e360	e360	392	660	1650	1680	737	599	558
15	539	532	481	e350	e310	402	572	1680	1670	771	598	549
16	537	521	468	e360	e320	398	576	2130	1780	770	585	548
17	530	527	458	e380	e320	390	688	2510	1810	769	608	589
18	566	514	459	404	e320	375	840	2210	1760	775	681	608
19	553	522	454	413	e320	397	764	2350	1670	805	724	561
20	620	502	454	423	407	405	816	2620	1660	813	625	553
21	689	e480	e440	417	432	398	771	2960	1720	835	606	587
22	613	e480	e420	404	e400	391	768	2870	1760	885	603	570
23	632	479	e400	398	e400	401	950	2770	1910	855	596	566
24	649	493	e400	e390	e400	421	1120	2660	1900	789	576	638
25	579	506	e420	e380	e400	398	1470	2460	1630	742	557	609
26	577	499	e440	389	e400	392	1570	2210	1430	696	566	566
27	595	483	435	391	e390	389	1500	2110	1330	692	576	548
28	631	e460	426	399	e390	406	1370	2070	1250	692	578	539
29	628	e440	429	391	---	426	1350	2060	1170	681	579	533
30	613	e480	438	389	---	411	1260	2050	1080	695	562	528
31	609	---	e420	373	---	391	---	2020	---	677	563	---
TOTAL	17938	15682	14338	12307	10491	12346	23084	63080	51850	24594	18947	17019
MEAN	579	523	463	397	375	398	769	2035	1728	793	611	567
MAX	689	569	536	427	432	426	1570	2960	2370	1020	724	638
MIN	530	440	400	350	310	375	391	1220	1080	677	557	528
AC-FT	35580	31110	28440	24410	20810	24490	45790	125100	102800	48780	37580	33760
CFSM	1.76	1.59	1.41	1.21	1.14	1.21	2.35	6.20	5.27	2.42	1.86	1.73
IN.	2.03	1.78	1.63	1.40	1.19	1.40	2.62	7.15	5.88	2.79	2.15	1.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	577	532	466	434	404	428	840	2269	2186	1058	708	616
MAX	809	726	573	613	508	530	1094	3715	3982	1884	1252	1025
(WY)	1998	1997	1996	1997	1998	1998	2004	1997	1997	1997	1997	1997
MIN	377	351	342	315	304	300	634	1681	754	515	409	372
(WY)	2002	1995	2002	2002	2002	2002	1999	2001	2001	2001	1994	2001

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1994 - 2005
ANNUAL TOTAL	292397	281676	
ANNUAL MEAN	799	772	893
HIGHEST ANNUAL MEAN			1373
LOWEST ANNUAL MEAN			598
HIGHEST DAILY MEAN	2650	2960	5390
LOWEST DAILY MEAN	300	310	260
ANNUAL SEVEN-DAY MINIMUM	326	333	286
ANNUAL RUNOFF (AC-FT)	580000	558700	646800
ANNUAL RUNOFF (CFSM)	2.44	2.35	2.72
ANNUAL RUNOFF (INCHES)	33.16	31.95	36.98
10 PERCENT EXCEEDS	1690	1750	2020
50 PERCENT EXCEEDS	594	558	574
90 PERCENT EXCEEDS	368	390	377

e Estimated

## HENRYS FORK BASIN

## 13047500 FALLS RIVER NEAR SQUIRREL, ID

LOCATION.--Lat 44°04'07", long 111°14'29", (NAD83), in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.34, T.9 N., R.44 E., Fremont County, Porcupine Lake quad., Hydrologic Unit 17040203, on right bank 0.2 mi upstream from road bridge, 0.5 mi downstream from headgates of Marysville Canal, 4 mi northeast of Squirrel, 10.8 mi upstream from Conant Creek, and at mile 19.8.

DRAINAGE AREA.--334 mi<sup>2</sup> (revised). Mean elevation, 7,520 ft.

PERIOD OF RECORD.--August 1902 to June 1909 (gage heights only prior to October 1904), May 1918 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "Fall River at Wilson's Mill, near Marysville" 1902, as "Fall River near Marysville" 1903, as "Fall River at Fremont" 1904-09, and as "Fall River near Squirrel" 1918-59.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1908. WSP 1347: 1905.

GAGE.--Water-stage recorder. Elevation of gage is 5,590 ft above NGVD of 1929, from topographic map. Prior to Jan. 1, 1904, nonrecording gage at site 3 mi upstream at different datum, Jan. 1, 1904 to Nov. 6, 1937, nonrecording gage at site 200 ft upstream at different datum, and Nov. 7, 1937 to Oct. 7, 1948, nonrecording gage at site 100 ft downstream at datum 0.29 ft lower.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow since October 1939 regulated by Grassy Lake, capacity about 15,200 acre-feet. Diversions above station for irrigation of about 17,000 acres below station and in adjacent basins, and diversions from tributary upstream from station for irrigation of about 500 acres (1966 determination). Diversions to Marysville Canal were increased beginning August 1993 for power generation at Marysville Hydropower plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1905-93), 7,060 ft<sup>3</sup>/s June 9, 1981, gage height, 5.93 ft; minimum observed, 72 ft<sup>3</sup>/s Jan. 17, 1930.

Maximum discharge since diversions to Marysville Hydropower plant began in 1994, 5,060 ft<sup>3</sup>/s June 5, 1997, gage height, 4.82 ft; minimum, 77 ft<sup>3</sup>/s Sept. 13, 2001, gage height, 0.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,500 ft<sup>3</sup>/s May 22, gage height, 3.22 ft; minimum, 106 ft<sup>3</sup>/s Oct. 12, gage height, 0.53 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	227	231	232	230	283	199	610	1580	261	249	251
2	229	232	227	233	e230	280	200	660	1700	587	251	253
3	231	233	229	235	e220	281	200	705	1320	617	247	241
4	233	227	e230	232	229	288	198	842	1080	567	248	238
5	233	231	e230	231	229	290	195	1020	1010	267	249	235
6	232	232	e230	e230	227	292	197	1140	1330	251	249	236
7	229	231	e230	231	230	284	198	1300	1430	246	251	240
8	230	238	e230	233	228	277	204	1270	1250	244	250	240
9	231	236	e230	232	228	272	195	1200	1070	243	250	243
10	229	238	235	233	227	274	196	1520	929	245	250	267
11	226	238	236	233	228	240	198	1450	807	240	247	259
12	223	233	233	230	256	215	199	1330	1020	249	248	271
13	224	233	232	e230	254	212	208	1070	1250	252	250	257
14	226	233	233	231	251	211	198	1050	1020	253	252	242
15	227	233	232	e230	e250	215	189	1080	996	254	252	232
16	227	231	233	e230	e250	215	194	1550	1120	253	252	243
17	228	232	232	e230	e250	211	198	1990	1150	252	259	275
18	235	231	231	e230	e280	213	253	1650	1090	249	270	246
19	216	229	233	e230	e280	212	194	1780	1000	250	255	245
20	259	229	230	236	e280	211	214	2020	969	251	250	247
21	235	e230	230	224	281	205	208	2310	1050	252	251	260
22	233	e230	e230	223	280	205	218	2310	1020	253	253	246
23	239	233	e220	224	279	204	335	2270	1120	253	253	255
24	224	233	e220	226	279	198	514	2120	1120	252	254	286
25	226	232	228	230	279	199	885	1870	916	252	253	247
26	236	227	230	232	280	200	1000	1600	683	248	251	241
27	237	226	233	231	280	200	930	1540	524	248	252	247
28	224	224	233	231	281	202	772	1540	467	249	252	245
29	220	e220	235	230	---	200	757	1530	399	251	254	245
30	229	e230	232	231	---	198	665	1440	316	249	253	249
31	225	---	234	229	---	198	---	1350	---	250	252	---
TOTAL	7126	6932	7152	7143	7096	7185	10311	45117	30736	8788	7807	7482
MEAN	230	231	231	230	253	232	344	1455	1025	283	252	249
MAX	259	238	236	236	281	292	1000	2310	1700	617	270	286
MIN	216	220	220	223	220	198	189	610	316	240	247	232
AC-FT	14130	13750	14190	14170	14070	14250	20450	89490	60960	17430	15490	14840

HENRYS FORK BASIN  
13047500 FALLS RIVER NEAR SQUIRREL, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1993, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	503	489	446	407	397	402	698	1901	2155	899	561	523
MAX	933	912	647	564	565	590	1419	3255	3786	2370	918	791
(WY)	1984	1928	1984	1984	1928	1928	1990	1993	1927	1975	1982	1927
MIN	259	276	283	219	287	285	404	1086	589	298	316	223
(WY)	1932	1932	1932	1932	1932	1988	1967	1934	1934	1931	1977	1993

SUMMARY STATISTICS

<sup>a</sup> WATER YEARS 1905 - 1993

ANNUAL MEAN	781
HIGHEST ANNUAL MEAN	1144
LOWEST ANNUAL MEAN	475
HIGHEST DAILY MEAN	6440
LOWEST DAILY MEAN	72
ANNUAL SEVEN-DAY MINIMUM	182
ANNUAL RUNOFF (AC-FT)	565500
10 PERCENT EXCEEDS	1880
50 PERCENT EXCEEDS	490
90 PERCENT EXCEEDS	363

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	242	247	233	239	241	234	409	1692	1533	496	262	244
MAX	286	284	260	269	276	261	617	3043	3186	1049	539	372
(WY)	1997	2000	2003	1996	2004	2002	1997	1997	1997	1997	1997	1997
MIN	223	225	217	218	220	206	311	1191	280	231	210	219
(WY)	1999	1996	2004	1994	1994	1996	1998	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

<sup>b</sup> WATER YEARS 1994 - 2005

ANNUAL TOTAL	150616	152875	
ANNUAL MEAN	412	419	507
HIGHEST ANNUAL MEAN			861
LOWEST ANNUAL MEAN			324
HIGHEST DAILY MEAN	1910	May 7	2310
LOWEST DAILY MEAN	200	Jan 5	189
ANNUAL SEVEN-DAY MINIMUM	208	Feb 24	197
ANNUAL RUNOFF (AC-FT)	298700		303200
10 PERCENT EXCEEDS	1030		1080
50 PERCENT EXCEEDS	233		241
90 PERCENT EXCEEDS	212		214

a Unregulated  
b Regulated  
e Estimated

HENRYS FORK BASIN  
13047600 FALLS RIVER NEAR ASHTON, ID

LOCATION.--Lat 44°03'22", long 111°21'31", (NAD83), in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.3, T.8 N., R.43 E., Fremont County, Warm River quad, Hydrologic Unit 17040203, on left bank 500 ft downstream from road bridge, about 3.25 mi northwest of Squirrel.

DRAINAGE AREA.--343 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,390 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, 5,520 ft<sup>3</sup>/s June 5, 1997, gage height, 9.13 ft; minimum, 164 ft<sup>3</sup>/s July 26, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,970 ft<sup>3</sup>/s May 22, gage height, 7.02 ft; minimum, 243 ft<sup>3</sup>/s July. 5, gage height, 3.74 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	550	e530	483	434	428	405	1160	2060	797	454	489
2	485	556	531	470	e400	416	415	1210	2210	750	438	483
3	488	559	516	473	e420	413	441	1240	1840	725	460	492
4	486	554	e500	465	e440	417	486	1360	1600	653	437	499
5	490	552	e500	e440	e440	415	463	1530	1520	593	429	504
6	493	547	e500	e420	e420	415	434	1640	1800	571	423	512
7	491	542	e530	e440	e430	416	470	1820	1930	543	431	511
8	492	541	517	e460	430	412	553	1790	1750	510	431	514
9	491	545	520	e460	e420	419	518	1700	1560	482	440	512
10	494	552	537	e460	e400	432	483	2030	1430	484	449	538
11	496	557	571	e460	e410	435	471	1970	1320	485	477	544
12	488	548	534	e450	e420	438	487	1850	1500	451	473	551
13	484	539	508	e400	439	422	544	1590	1750	428	481	566
14	482	533	497	e390	e420	411	659	1560	1520	414	485	532
15	483	525	500	e380	e390	426	589	1580	1480	452	487	513
16	494	518	490	e400	e360	423	580	2020	1590	452	488	501
17	500	521	478	e420	e370	416	668	2490	1630	446	504	534
18	527	511	483	e450	e370	400	822	2170	1570	445	598	575
19	534	519	477	e460	e400	423	760	2260	1480	443	675	519
20	574	508	479	e480	e450	429	806	2500	1450	439	597	494
21	644	e460	465	470	e460	423	776	2780	1520	430	569	518
22	587	e470	e440	457	439	415	750	2800	1500	427	559	510
23	601	505	e440	450	431	425	903	2760	1570	430	534	500
24	620	514	e430	443	421	445	1050	2620	1580	425	509	568
25	557	523	e460	439	420	416	1390	2370	1390	426	491	585
26	551	520	e470	440	417	411	1530	2100	1170	427	484	538
27	563	505	e470	443	414	409	1460	1970	1030	422	485	529
28	592	e480	e470	453	411	421	1310	1930	977	446	489	524
29	607	e450	e470	445	---	445	1300	1920	926	451	469	514
30	584	e530	484	443	---	434	1210	1910	856	459	466	511
31	597	---	484	430	---	410	---	1860	---	451	476	---
TOTAL	16463	15734	15281	13774	11676	13060	22733	60490	45509	15357	15188	15680
MEAN	531	524	493	444	417	421	758	1951	1517	495	490	523
MAX	644	559	571	483	460	445	1530	2800	2210	797	675	585
MIN	482	450	430	380	360	400	405	1160	856	414	423	483
AC-FT	32650	31210	30310	27320	23160	25900	45090	120000	90270	30460	30130	31100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	543	540	493	470	449	468	835	2171	1997	808	577	546
MAX	849	725	624	719	631	668	1111	3527	3886	1704	1226	1021
(WY)	1998	1998	1996	1997	1997	1997	1997	1997	1997	1997	1997	1997
MIN	391	395	351	326	336	349	625	1569	629	285	285	321
(WY)	2002	1995	2002	2002	2002	2002	1999	2001	2001	1994	1994	1994

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1994 - 2005
ANNUAL TOTAL	266821	260945	
ANNUAL MEAN	729	715	842
HIGHEST ANNUAL MEAN			1370
LOWEST ANNUAL MEAN			554
HIGHEST DAILY MEAN	2420	May 6	2800
LOWEST DAILY MEAN	340	Jan 5	360
ANNUAL SEVEN-DAY MINIMUM	366	Feb 10	393
ANNUAL RUNOFF (AC-FT)	529200	517600	610200
10 PERCENT EXCEEDS	1510	1570	1850
50 PERCENT EXCEEDS	518	494	546
90 PERCENT EXCEEDS	400	420	398

e Estimated

HENRY'S FORK BASIN

13049500 FALLS RIVER NEAR CHESTER, ID

LOCATION.--Lat 44°01'06", long 111°34'00", (NAD83), in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.13, T.8 N., R.41 E., Fremont County, Lemon Lake quad., Hydrologic Unit 17040203, on right bank, 0.2 mi upstream from highway bridge, at mile 0.8, and 1.5 mi north of Chester.

DRAINAGE AREA.--520 mi<sup>2</sup>, approximately. Mean elevation, 6,970 ft.

PERIOD OF RECORD.--April 1920 to current year (irrigation seasons only prior to 1962). Prior to October 1959, published as "Fall River near Chester".

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,051.9 ft above NGVD of 1929. Prior to Aug. 9, 1920, nonrecording gage at site 200 ft downstream at same datum. Aug. 9, 1920 to Apr. 28, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow since October 1939 partly regulated by Grassy Lake. Diversions above station for irrigation of about 4,600 acres above station and about 36,000 acres in adjacent basins (1966 determination). Station is below all diversions from Falls River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 7,730 ft<sup>3</sup>/s June 9, 1981, gage height, 7.83 ft; maximum gage height, 7.93 ft, Jan. 18, 1966, backwater from ice; minimum recorded, 7.0 ft<sup>3</sup>/s June 27, 1961, gage height, 0.74 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,990 ft<sup>3</sup>/s May 22, gage height, 4.74 ft; minimum, 53 ft<sup>3</sup>/s July 14, gage height, 1.22 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	374	552	e520	e460	412	419	417	1100	1810	470	133	339
2	374	550	e510	e460	e400	407	416	1120	2030	395	126	330
3	381	564	e500	e470	e400	403	431	1150	1690	378	138	333
4	402	561	e490	e460	e420	406	494	1270	1430	316	120	343
5	409	555	e490	e430	e420	406	476	1460	1350	271	144	375
6	417	548	e490	e450	e420	405	431	1560	1610	228	107	377
7	412	541	e510	e420	e420	408	439	1770	1810	201	120	370
8	422	540	e500	e450	e410	408	523	1760	1650	162	130	363
9	419	546	e500	e450	e410	428	505	1670	1430	129	182	364
10	429	552	e520	e440	e390	444	463	2000	1290	124	229	392
11	422	559	e540	e440	e400	451	447	2000	1150	136	325	408
12	401	552	e520	e430	e427	455	457	1870	1300	100	321	412
13	397	542	503	e390	430	444	507	1620	1680	79	340	433
14	396	537	490	e370	e400	430	626	1530	1410	66	352	400
15	398	527	493	e360	e350	439	576	1530	1330	121	351	372
16	404	518	484	e380	e360	441	554	1910	1390	72	326	358
17	411	521	469	e410	e360	433	622	2460	1450	70	335	377
18	433	513	473	e430	e360	421	779	2230	1390	83	423	444
19	463	518	e470	e450	e380	436	774	2210	1310	92	528	390
20	496	508	e470	e460	e410	445	826	2490	1230	90	461	365
21	582	e460	e460	e450	e440	447	817	2750	1240	85	415	378
22	534	e460	e440	e450	e420	439	778	2810	1240	68	402	389
23	546	e480	e420	449	e420	452	901	2690	1250	70	387	371
24	601	512	e420	445	e410	471	1020	2600	1270	74	361	436
25	530	529	e440	427	e400	441	1380	2360	1080	70	336	501
26	531	529	e460	430	e400	433	1590	2070	856	71	333	445
27	538	511	e460	429	e400	429	1510	1910	688	71	349	432
28	570	494	e450	437	e400	441	1320	1820	647	81	355	424
29	596	e400	e450	429	---	468	1300	1790	616	95	339	409
30	577	e480	e460	425	---	460	1180	1770	547	123	338	404
31	610	---	e460	418	---	436	---	1690	---	124	341	---
TOTAL	14475	15659	14862	13399	11269	13446	22559	58970	39174	4515	9147	11734
MEAN	467	522	479	432	402	434	752	1902	1306	146	295	391
MAX	610	564	540	470	440	471	1590	2810	2030	470	528	501
MIN	374	400	420	360	350	403	416	1100	547	66	107	330
AC-FT	28710	31060	29480	26580	22350	26670	44750	117000	77700	8960	18140	23270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)

MEAN	459	534	511	475	462	482	843	1994	1801	455	244	320
MAX	953	992	754	638	611	730	1537	3751	3671	1971	892	767
(WY)	1984	1984	1984	1975	1985	1986	1986	1997	1997	1975	1997	1997
MIN	149	350	356	344	357	365	431	597	255	27.8	28.5	57.3
(WY)	1935	1964	1988	2004	1978	1988	1967	1934	1934	1960	1933	1960

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1920 - 2005

ANNUAL TOTAL	236911	229209	
ANNUAL MEAN	647	628	
HIGHEST ANNUAL MEAN			1279
LOWEST ANNUAL MEAN			474
HIGHEST DAILY MEAN	2320	May 6	2810
LOWEST DAILY MEAN	168	Jul 31	66
ANNUAL SEVEN-DAY MINIMUM	180	Jul 27	72
ANNUAL RUNOFF (AC-FT)	469900		454600
10 PERCENT EXCEEDS	1470		1450
50 PERCENT EXCEEDS	460		444
90 PERCENT EXCEEDS	320		254

e Estimated

## HENRYS FORK BASIN

## 13050500 HENRYS FORK AT ST. ANTHONY, ID

LOCATION.--Lat 43°58'01", long 111°40'21", (NAD83), in NW¼ sec.6, T.7 N., R.41 E., Fremont County, Saint Anthony quad., Hydrologic Unit 17040203, on right bank 0.5 mi upstream from bridge on main street of St. Anthony, 6.4 mi downstream from Falls River, and at mile 32.4.

DRAINAGE AREA.--1,770 mi<sup>2</sup>, approximately. Mean elevation, 6,670 ft.

PERIOD OF RECORD.--March 1919 to current year (irrigation seasons only prior to 1962).

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1923(M).

GAGE.--Water-stage recorder. Datum of gage is 4,950.7 ft above NGVD of 1929. March 1919 to May 7, 1922, nonrecording gages, and May 8, 1922, to Aug. 14, 1931, water-stage recorder, at site 150 ft downstream at datum 0.08 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 21,000 acres below and about 58,000 acres above station of which about 1,100 acres are irrigated by withdrawals from ground water (1966 determination). Flow regulated by power plant about 17 mi above station, and by Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 13,200 ft<sup>3</sup>/s May 16, 1984, gage height, 8.62 ft; minimum recorded, 21 ft<sup>3</sup>/s July 9, 1973, gage height, 1.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,270 ft<sup>3</sup>/s May 22, gage height, 5.49 ft; minimum, 665 ft<sup>3</sup>/s Aug. 26, 30, gage height, 3.05 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1520	1510	1460	1370	1390	1290	2140	2960	1300	1280	1070
2	1150	1550	1470	1440	1360	1360	1140	2140	3260	1190	1400	1080
3	988	1560	e1400	1460	1320	1350	1110	2100	2850	1180	1290	1080
4	1110	1550	e1400	1430	1420	1370	1210	2180	2640	1180	1140	1080
5	1270	1540	e1400	1300	1420	1370	1200	2410	2460	1110	1150	1150
6	1290	1550	e1500	1340	1410	1360	1070	2570	2840	1060	1110	1130
7	1230	1500	1700	1290	1380	1360	1040	2910	3270	1000	1140	1140
8	1250	1500	1680	1440	1390	1350	1200	2830	3110	960	1100	1150
9	1130	1530	1530	1460	1370	1350	1180	2840	2850	1020	e1200	1120
10	1060	1540	1550	1510	1320	1380	1110	3530	2640	934	e1300	1260
11	1090	1530	1590	1470	1330	1390	1020	3400	2420	1030	1350	1340
12	992	1520	1520	1470	1450	1430	1050	3290	2610	1350	1300	1330
13	910	1520	1430	1490	1390	1380	1130	3030	3120	1160	1320	1440
14	823	1500	1690	e1400	1460	1360	1240	2870	2730	1020	1310	1400
15	748	1480	2030	e1200	1280	1370	1190	2790	2540	1010	1330	1380
16	765	1470	1440	e1500	e1200	1380	1130	3320	2480	973	1270	1380
17	780	1470	1400	e1600	e1200	1370	1260	4230	2560	1030	1150	1490
18	807	1470	1390	1550	e1400	1360	1570	4240	2480	1030	1200	1690
19	892	1460	1390	1550	e1500	1360	1640	4480	2390	1020	1440	1560
20	1130	1460	1390	1480	1500	1440	1660	4650	2210	1050	1470	1530
21	1310	1360	1340	1440	1470	1430	1640	4850	2140	1010	1360	1570
22	1140	1380	1320	1410	1430	1390	1570	4840	2140	1010	1280	1460
23	1180	1480	e1200	1410	1400	1460	1820	4740	2130	1010	1220	1160
24	1410	1440	e1300	1370	1380	1480	2050	4500	2140	1050	1100	1260
25	1250	1530	e1600	1380	1380	1400	2810	4240	1940	1090	927	1300
26	1310	1500	e1500	1400	1360	1400	3280	3710	1720	1060	929	1190
27	1390	1470	e1500	1420	1370	1400	3060	3370	1600	1050	958	1180
28	1430	1380	1480	1420	1360	1400	2580	3080	1550	1090	984	1120
29	1550	1260	1490	1420	---	1500	2450	2950	1540	1260	1010	1110
30	1540	1460	1500	1410	---	1470	2290	2870	1410	1390	1030	1160
31	1620	---	1480	1380	---	1390	---	2790	---	1270	1060	---
TOTAL	35825	44480	46120	44300	38620	43200	47990	103890	72730	33897	37108	38310
MEAN	1156	1483	1488	1429	1379	1394	1600	3351	2424	1093	1197	1277
MAX	1620	1560	2030	1600	1500	1500	3280	4850	3270	1390	1470	1690
MIN	748	1260	1200	1200	1200	1350	1020	2100	1410	934	927	1070
AC-FT	71060	88230	91480	87870	76600	85690	95190	206100	144300	67230	73600	75990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2005, BY WATER YEAR (WY)

MEAN	1352	1576	1570	1578	1591	1539	2083	3691	2872	1352	1268	1282
MAX	2254	2526	2125	2482	2245	2350	3978	8006	6523	3628	3270	2225
(WY)	1998	1972	2000	1997	1997	1997	1986	1997	1984	1984	1984	1971
MIN	668	718	976	936	978	971	833	739	651	598	643	538
(WY)	1967	1935	1978	1963	1964	1980	1924	1934	1934	1931	1936	1994

## SUMMARY STATISTICS

## FOR 2004 CALENDAR YEAR

## FOR 2005 WATER YEAR

## WATER YEARS 1919 - 2005

ANNUAL TOTAL	570515	586470										
ANNUAL MEAN	1559	1607								1942		
HIGHEST ANNUAL MEAN										3146		1984
LOWEST ANNUAL MEAN										1311		1988
HIGHEST DAILY MEAN				3820	Jun 11		4850	May 21		12500	May 16	1984
LOWEST DAILY MEAN				748	Oct 15		748	Oct 15		308	Sep 18	1994
ANNUAL SEVEN-DAY MINIMUM				818	Oct 13		818	Oct 13		371	Sep 17	1994
ANNUAL RUNOFF (AC-FT)	1132000	1163000								1407000		
10 PERCENT EXCEEDS	2030	2750								3440		
50 PERCENT EXCEEDS	1480	1400								1570		
90 PERCENT EXCEEDS	1200	1060								1020		

e Estimated



HENRY'S FORK BASIN

13052200 TETON RIVER ABOVE SOUTH LEIGH CREEK, NEAR DRIGGS, ID

LOCATION.--Lat 43°46'55", long 111°12'33", (revised), (NAD83), in NW¼NW¼NE¼ sec.12, T.5 N., R.44 E., Teton County, Tetonia quad., Hydrologic Unit 17040204, on right bank 75 ft upstream from county road bridge, 3.5 mi southwest of Tetonia, 6.5 mi northwest of Driggs, and at mile 56.3.

DRAINAGE AREA.--335 mi<sup>2</sup>, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,952.9 ft above NGVD of 1929.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 42,000 acres, of which about 1,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft<sup>3</sup>/s June, 11, 1997, gage height, 5.14 ft; maximum gage height, 6.37 ft, Feb. 1, 1963, backwater from ice; minimum, 54 ft<sup>3</sup>/s Nov. 23, 1977, gage height, 0.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft<sup>3</sup>/s June 24, gage height, 3.60 ft; minimum daily, 140 ft<sup>3</sup>/s Feb. 15.

Discharge, cubic feet per second WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	319	e210	e220	e190	193	259	209	763	756	355	259
2	311	302	e220	e220	e190	193	286	207	879	770	349	259
3	306	300	e230	e220	e180	199	354	207	703	793	351	258
4	305	304	e230	e216	e180	208	367	222	624	722	343	251
5	306	300	e240	e214	e180	210	347	232	560	648	330	247
6	304	292	e240	e220	e180	209	307	238	632	596	322	248
7	302	286	e250	e220	e180	208	350	356	752	585	318	245
8	298	283	e250	e190	e180	209	405	494	731	561	312	244
9	295	283	246	e180	e170	225	332	386	669	544	307	248
10	296	283	266	e180	e170	246	304	405	607	533	303	259
11	301	284	300	e170	e160	264	290	498	565	566	303	264
12	297	280	312	e160	e170	285	293	474	665	534	294	278
13	295	274	281	e150	e170	277	305	463	762	498	290	290
14	293	273	262	e160	e160	252	284	371	632	474	282	282
15	294	274	262	e180	e140	240	243	337	595	465	280	276
16	295	268	258	e200	e160	235	234	365	694	442	289	270
17	296	269	246	e220	e170	233	230	450	946	420	341	287
18	312	266	e240	e210	e170	227	235	516	1110	418	350	296
19	315	266	e230	e210	e190	242	248	460	1150	406	359	283
20	321	264	e220	e210	e200	287	241	640	1120	390	316	274
21	348	e260	e210	e210	e200	287	232	967	1150	377	301	286
22	336	e250	e200	e200	e200	284	218	1160	1240	366	292	324
23	339	e250	e180	e200	e200	299	212	1040	1330	386	288	304
24	408	252	e200	e200	e190	317	213	1110	1400	374	282	314
25	350	255	e200	e200	e190	282	217	1040	1310	359	271	332
26	321	260	e210	e200	e190	277	221	848	1220	341	267	314
27	309	e250	e210	e190	e190	274	229	781	1100	337	265	296
28	317	e240	e220	e190	e190	299	244	740	948	328	260	287
29	363	e220	e220	e180	---	324	224	758	874	332	257	279
30	358	e200	e220	e190	---	286	216	773	785	343	255	275
31	347	---	e220	e190	---	261	---	708	---	353	261	---
TOTAL	9861	8107	7283	6100	5040	7832	8140	17455	26516	15017	9393	8329
MEAN	318	270	235	197	180	253	271	563	884	484	303	278
MAX	408	319	312	220	200	324	405	1160	1400	793	359	332
MIN	293	200	180	150	140	193	212	207	560	328	255	244
AC-FT	19560	16080	14450	12100	10000	15530	16150	34620	52590	29790	18630	16520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

	304	274	223	200	210	268	350	519	915	717	398	329
MEAN	304	274	223	200	210	268	350	519	915	717	398	329
MAX	481	458	342	343	328	522	528	1319	2458	1510	625	496
(WY)	1972	1984	1984	1997	1986	1972	1976	1997	1997	1982	1993	1965
MIN	137	138	113	110	124	164	193	236	275	207	141	132
(WY)	2002	2002	2003	2003	1988	2002	1981	1977	2001	2001	2001	2001

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1962 - 2005
ANNUAL TOTAL	115869	129073	
ANNUAL MEAN	317	354	393
HIGHEST ANNUAL MEAN			704
LOWEST ANNUAL MEAN			197
HIGHEST DAILY MEAN	1430	1400	2960
LOWEST DAILY MEAN	110	140	60
ANNUAL SEVEN-DAY MINIMUM	124	161	74
ANNUAL RUNOFF (AC-FT)	229800	256000	284500
10 PERCENT EXCEEDS	511	679	731
50 PERCENT EXCEEDS	294	283	296
90 PERCENT EXCEEDS	150	190	170

e Estimated

## HENRYS FORK BASIN

## 13055000 TETON RIVER NEAR ST. ANTHONY, ID

LOCATION.--Lat 43°55'38", long 111°36'50"(revised), in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.15, T.7 N., R.41 E., Fremont County, Newdale quad., Hydrologic Unit 17040204, on right bank 0.5 mi upstream from railroad bridge, 4 mi southeast of St. Anthony, and at mile 22.

DRAINAGE AREA.--890 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1890 to September 1893, April 1903 to June 1909, (irrigation seasons only 1920-21, 1923-33), April 1920 to May 1976 (destroyed by flood of June 5, 1976), October 1977 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Wilford" or "at Chases Ranch" 1890-93.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1903-6, 1908-9. WDR ID-80-1: 1979. WDR ID-97-1: 1993(M), 1996(M).

GAGE.--Water-stage recorder. Elevation of gage is 4,970 ft above NGVD of 1929, from topographic map. Apr. 5, 1890 to Sept. 30, 1893, nonrecording gage at site 1 mi downstream at different datum. Apr. 23, 1903 to June 30, 1909, nonrecording gage at site 0.8 mi upstream at different datum. Apr. 19, 1920 to May 1, 1921, nonrecording gage, and May 2, 1921 to Nov. 5, 1933, water-stage recorder at site 400 ft downstream at different datum. Nov. 6, 1933 to June 5, 1976, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 58,000 acres of which about 4,400 acres are irrigated by withdrawals from ground water (1966 determination). Water is diverted at times (since 1939) during irrigation season from Henrys Fork through Cross Cut Canal to Teton River 0.8 mi upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,700,000 ft<sup>3</sup>/s, estimated from the average of slope-area measurements of peak flow at Teton, 5.3 mi downstream, and near Newdale, 3.4 mi upstream, June 5, 1976 (Teton Dam failure); maximum stage, 42.2 ft.

Maximum discharge excluding 1976, 11,000 ft<sup>3</sup>/s Feb. 12, 1962, gage height, 9.36 ft, on basis of contracted-opening measurement of peak flow, site and datum then in use. Minimum discharge, 103 ft<sup>3</sup>/s Oct. 4, 1975, gage height, 2.38 ft, site and datum then in use, due to filling of Teton Reservoir; minimum, excluding the filling period of Teton Reservoir, 203 ft<sup>3</sup>/s Jan. 13, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,090 ft<sup>3</sup>/s May 22, gage height, 4.86 ft; minimum daily, 250 ft<sup>3</sup>/s Jan. 14.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	479	381	373	342	337	397	623	1750	1290	605	498
2	481	443	385	365	346	334	404	588	2080	1270	550	513
3	467	444	381	364	321	330	487	596	1850	1290	509	520
4	461	453	e370	365	e320	336	574	644	1560	1250	471	519
5	453	448	e380	358	e320	343	555	763	1390	1110	449	548
6	447	438	e380	365	e320	342	503	942	1480	1050	416	526
7	448	430	390	362	e320	344	478	1130	1770	1060	399	519
8	446	423	381	358	e320	343	600	1470	1790	1130	415	505
9	441	430	379	312	e300	349	573	1470	1640	1070	477	511
10	443	431	382	e300	e300	368	496	1500	1530	1120	497	490
11	443	436	400	e300	320	395	465	1630	1400	1130	544	479
12	442	432	440	e280	340	417	455	1670	1410	917	490	477
13	441	424	462	e260	358	444	492	1490	1730	918	494	438
14	438	415	434	e250	347	420	560	1230	1700	918	498	440
15	437	418	406	e280	330	387	522	1120	1560	937	489	409
16	438	408	408	e320	e280	378	476	1350	1580	940	e550	398
17	437	410	400	373	e270	373	469	2170	1860	920	607	405
18	446	414	378	367	e280	368	503	1950	2060	892	671	423
19	462	398	e360	362	e320	361	545	1710	2090	856	724	419
20	470	404	e350	366	367	407	522	2090	2030	834	580	397
21	489	384	e320	368	350	458	507	2740	2110	815	533	403
22	503	353	e290	356	334	447	482	2880	2240	789	541	427
23	499	384	e280	355	333	454	475	2760	2440	771	519	455
24	528	403	e270	349	325	479	518	2700	2450	790	549	450
25	531	404	e300	339	328	464	611	2560	2300	788	597	477
26	476	405	e340	348	329	425	733	2190	2140	768	582	479
27	454	398	e360	356	327	416	805	1930	1980	744	569	455
28	452	378	381	356	326	429	759	1790	1720	742	581	433
29	475	334	377	352	---	490	714	1740	1570	651	595	421
30	503	294	380	356	---	473	668	1790	1440	579	538	411
31	513	---	371	352	---	424	---	1690	---	581	488	---
TOTAL	14456	12315	11516	10567	9073	12335	16348	50906	54650	28920	16527	13845
MEAN	466	410	371	341	324	398	545	1642	1822	933	533	462
MAX	531	479	462	373	367	490	805	2880	2450	1290	724	548
MIN	437	294	270	250	270	330	397	588	1390	579	399	397
AC-FT	28670	24430	22840	20960	18000	24470	32430	101000	108400	57360	32780	27460

HENRY'S FORK BASIN

13055000 TETON RIVER NEAR ST. ANTHONY, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2005, BY WATER YEAR (WY)

MEAN	549	492	425	386	401	477	749	1621	2108	1238	750	619
MAX	910	868	708	652	895	758	1411	3439	4788	2882	1136	872
(WY)	1984	1984	1909	1997	1962	1972	1943	1997	1997	1975	1997	1971
MIN	348	326	300	280	280	295	333	630	488	359	293	284
(WY)	2002	1935	1906	1935	1937	1906	1976	1934	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1891 - 2005	
ANNUAL TOTAL	228040		251458			
ANNUAL MEAN	623		689		827	
HIGHEST ANNUAL MEAN					1405	
LOWEST ANNUAL MEAN					411	
HIGHEST DAILY MEAN	2460	Jun 11	2880	May 22	6970	Feb 12 1962
LOWEST DAILY MEAN	270	Dec 24	250	Jan 14	199	Oct 4 1975
ANNUAL SEVEN-DAY MINIMUM	306	Jan 17	283	Jan 9	246	Mar 16 1906
ANNUAL RUNOFF (AC-FT)	452300		498800		599500	
10 PERCENT EXCEEDS	1160		1630		1680	
50 PERCENT EXCEEDS	469		455		568	
90 PERCENT EXCEEDS	340		334		353	

e Estimated

HENRY'S FORK BASIN

13055000 TETON RIVER NEAR ST. ANTHONY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-1981, October 1989 to September 1990, November 1992 to September 1996, April to October 1999, April to September 2001, April to September 2005 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1993 to September 1994 (discontinued).

WATER TEMPERATURE: May 1993 to September 1994, May to September 1996, May to September 1999, May to September 2001, (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 434 microsiemens/cm Sept. 23, 1993: minimum daily mean, 146 microsiemens/cm May 28, 1993.

WATER TEMPERATURE: Maximum, 22.5 °C July 24-25, 31, Aug. 1-5, 1994.

REMARKS.--Missing data due to equipment malfunction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm 25 degC (00095)	pH, water, field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, white light, det ang 90+/-30 NTRU (63676)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	E coli, modif. m-TEC, water, col/100 mL (90902)	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)	
APR	12...	1450	425	343	8.4	17.6	9.3	6.8	11.5	121	S2	.025	.34	.523
MAY	11...	1240	1650	170	8.0	11.1	8.1	13	10.0	102	49	.021	.37	.219
JUN	09...	1230	1640	241	8.2	13.9	8.7	4.9	11.1	114	55	E.005	.23	.297
JUL	11...	1250	1130	235	8.1	25.2	18.9	2.3	9.7	124	47	E.008	.22	.192
AUG	17...	1240	649	247	8.5	24.0	17.1	2.4	16.4	204	37	E.005	.24	.287
SEP	14...	1140	469	299	8.7	16.8	11.6	<2.0	11.6	127	S11	<.010	.15	.555

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, water, fixed end pt, mg/L (00440)	Carbonate, water, fixed end pt, mg/L (00445)	ANC, water, fixed end pt, mg/L as CaCO3 (00410)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	
APR	12...	.012	.046	--	--	--	--	--	--	--	--	--	--	
MAY	11...	.007	.056	--	--	--	--	--	--	--	--	--	--	
JUN	09...	E.005	.026	--	--	--	--	--	--	--	--	--	--	
JUL	11...	<.006	.022	--	--	--	--	--	--	--	--	--	--	
AUG	17...	E.003	.019	--	--	--	--	--	--	--	--	--	--	
SEP	14...	<.006	.007	150	39.7	13.1	5.72	7	1.36	170	3	144	6.7	3.62

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Suspended sediment concentration, mg/L (80154)	
APR	12...	--	--	11
MAY	11...	--	--	25
JUN	09...	--	--	9
JUL	11...	--	--	5
AUG	17...	--	--	10
SEP	14...	.6	16.0	1

< Less than.  
 E Estimated.  
 S Most probable value.

HENRY'S FORK BASIN

13055250 NORTH FORK TETON RIVER NEAR SUGAR CITY, ID

LOCATION.--Lat 43°53'15", long 111°45'28" (revised), (NAD83), in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.32, T.7 N., R.40 E., Madison County, Parker quad., Hydrologic Unit 17040204, on left bank, at road crossing, and 1.0 mi northwest of Sugar City.

PERIOD OF RECORD.--April 1977 to September 1978 (not published), June 2003 to current year. Records for October to November 1908 and October 1977 to October 2003, at site 4 mi upstream, published as "at Teton" (sta 13055198), are not equivalent because of diversions between sites.

GAGE.--Water-stage recorder. Elevation of gage is 4,887 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow partially regulated by headworks 4.4 mi upstream. Diversions from tributaries above station for irrigation in Wyoming and Idaho.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 829 ft<sup>3</sup>/s May 22, 2005; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 829 ft<sup>3</sup>/s May 22; no flow Aug. 19.

Discharge, cubic feet per second WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	58	e70	e55	e60	e78	67	107	178	274	11	1.8
2	19	69	e75	e55	e50	e77	21	99	344	231	2.8	1.7
3	36	69	e80	e60	e40	e75	31	59	426	210	2.1	2.7
4	25	71	e60	e55	e45	75	101	55	350	168	1.8	3.3
5	27	70	e70	e60	e40	e77	97	65	290	121	3.3	3.4
6	21	71	e70	e60	e40	e77	83	87	276	35	2.1	2.9
7	19	72	e80	e55	e40	e78	65	124	341	19	1.4	3.7
8	19	70	e80	e70	e40	77	166	242	387	46	1.6	14
9	20	70	e80	e70	e45	77	259	351	464	23	1.2	6.3
10	25	72	e85	e60	e45	81	221	366	428	17	0.97	4.9
11	29	72	e80	e60	e40	e88	144	448	385	17	0.77	3.8
12	28	72	e90	e65	e50	95	80	466	379	13	0.63	3.7
13	27	72	e85	e60	e60	e104	89	467	443	8.8	0.50	4.2
14	28	68	e80	e45	e50	e102	125	383	447	8.6	0.90	4.3
15	24	69	87	e20	e30	e94	127	294	353	5.0	1.3	4.5
16	25	61	87	e45	e25	89	101	343	276	4.9	0.78	4.7
17	32	75	86	e60	e25	89	95	600	277	6.5	0.44	4.7
18	41	80	81	e65	e30	88	109	620	334	9.4	0.19	4.7
19	49	75	79	e70	e40	85	136	537	337	8.8	0.00	5.0
20	48	79	80	e75	e55	93	129	590	353	8.2	1.7	5.0
21	60	73	e60	e70	e50	112	129	750	360	7.6	0.86	4.6
22	71	67	e40	e70	e50	111	117	829	401	8.3	4.7	4.4
23	76	71	e25	e70	e50	113	108	792	459	12	1.6	4.4
24	86	80	e28	e65	e50	119	120	733	523	14	6.8	8.3
25	85	82	e45	e65	e55	118	150	692	521	16	9.1	9.5
26	64	80	e50	e70	e60	106	195	586	492	9.0	5.8	11
27	58	82	e60	e75	e65	103	231	453	474	10	3.5	10
28	40	e75	e65	e80	e70	104	210	268	458	10	3.6	14
29	62	e65	e60	e75	---	122	176	216	407	8.5	2.3	9.0
30	71	e70	e60	e70	---	125	135	215	347	7.1	1.2	9.4
31	27	---	e60	e70	---	108	---	171	---	9.2	1.7	---
TOTAL	1249.1	2160	2138	1945	1300	2940	3817	12008	11510	1345.9	76.64	173.9
MEAN	40.3	72.0	69.0	62.7	46.4	94.8	127	387	384	43.4	2.47	5.80
MAX	86	82	90	80	70	125	259	829	523	274	11	14
MIN	7.1	58	25	20	25	75	21	55	178	4.9	0.00	1.7
AC-FT	2480	4280	4240	3860	2580	5830	7570	23820	22830	2670	152	345

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

	1977	1978	1979	2000	2001	2002	2003	2004	2005	1977	1978	1979	2000	2001	2002	2003	2004	2005
MEAN	69.5	85.1	70.9	64.4	60.5	121	137	267	288	80.8	58.5	55.5						
MAX	118	94.8	106	66.0	74.0	146	228	483	485	162	121	102						
(WY)	1978	1978	2004	2004	2004	2004	1978	1978	1978	1978	1977	2003						
MIN	40.3	72.0	37.4	62.7	46.4	94.8	57.4	87.8	65.4	42.4	2.47	2.12						
(WY)	2005	2005	1978	2005	2005	2005	2004	1977	1977	1977	2005	2004						

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	28093.95		40663.54			
ANNUAL MEAN	76.8		111		96.7	
HIGHEST ANNUAL MEAN					111	
LOWEST ANNUAL MEAN					82.1	
HIGHEST DAILY MEAN	790		829		1100	
LOWEST DAILY MEAN	0.00		0.00		0.00	
ANNUAL SEVEN-DAY MINIMUM	0.00		0.59		0.00	
ANNUAL RUNOFF (AC-FT)	55720		80660		70090	
10 PERCENT EXCEEDS	156		350		218	
50 PERCENT EXCEEDS	65		69		70	
90 PERCENT EXCEEDS	2.8		4.3		3.4	

e Estimated

HENRY'S FORK BASIN

13055340 SOUTH FORK TETON RIVER AT REXBURG, ID

LOCATION.--Lat 43°50'06", long 111°46'40", (NAD83), SW¼SW¼NW¼ sec.20, T.6 N., R.40 E. Madison County, Rexburg quad., Hydrologic Unit 17040204, on left bank at upstream side of bridge on U.S. Highway 20, 0.6 mi north of Rexburg, and at mile 19.1.

DRAINAGE AREA.--1,070 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1981 to current year. Fragmentary records only prior to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above NGVD of 1929, from topographic map. Prior to Sept. 9, 1987, nonrecording gage at same site and datum. October 1988 to present at datum 3.00 ft higher.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Diversions above station used for irrigation above and below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,410 ft<sup>3</sup>/s May 16, 1984, gage height, 7.27 ft, datum then in use and June 11, 1997, gage height, 10.68 ft, present datum; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft<sup>3</sup>/s May 22, gage height, 7.51 ft; no flow on many days.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	221	e120	e110	e140	e120	192	90	472	416	187	0.00
2	75	198	e130	e100	e140	e130	187	71	733	320	139	5.1
3	38	193	e140	e110	e140	139	174	63	706	321	115	16
4	29	200	e120	e100	e130	141	140	68	519	298	44	20
5	25	201	e140	e110	e140	142	140	102	444	169	16	41
6	25	194	e140	e110	e140	143	121	187	472	74	0.00	27
7	26	189	e150	e100	e140	143	93	280	712	53	0.00	26
8	28	186	e150	e110	e140	140	119	447	755	90	0.00	1.8
9	27	184	e150	e130	e140	141	146	567	697	62	12	17
10	35	188	e160	e110	e130	147	113	519	590	76	25	32
11	36	191	e150	e110	e120	157	89	686	494	87	71	54
12	28	188	e180	e120	e140	168	78	720	469	41	50	40
13	27	184	e170	e110	e150	191	84	660	645	0.13	40	24
14	28	179	e160	e80	e120	184	121	508	704	2.0	38	49
15	26	182	179	e40	e90	176	132	392	596	0.00	33	50
16	28	163	179	e80	e60	170	106	445	543	0.00	5.3	29
17	29	171	175	e100	e60	170	97	978	665	0.00	11	12
18	31	185	166	e120	e90	168	111	1080	806	0.00	71	27
19	45	177	162	e130	e110	164	145	839	852	0.00	93	43
20	64	180	162	e130	e140	177	137	1010	762	0.00	45	2.6
21	66	176	e120	e130	e130	214	143	1400	646	0.43	0.00	22
22	82	158	e90	e130	e130	215	120	1660	665	0.00	0.00	36
23	104	159	e50	e130	e120	222	67	1560	853	0.75	0.00	56
24	113	180	e60	e120	e120	234	53	1440	915	35	0.00	54
25	117	187	e90	e120	e120	233	71	1320	839	58	29	79
26	92	186	e100	e130	e120	208	111	1050	729	38	23	98
27	82	180	e120	e160	e120	200	197	787	701	34	2.5	98
28	108	e140	e130	e180	e120	203	190	587	605	42	11	76
29	106	e110	e120	e160	---	233	165	546	526	120	40	71
30	132	e120	e120	e170	---	247	131	563	581	96	22	66
31	223	---	e120	e160	---	218	---	481	---	141	0.46	---
TOTAL	1958	5350	4203	3700	3440	5538	3773	21106	19696	2574.31	1123.26	1172.50
MEAN	63.2	178	136	119	123	179	126	681	657	83.0	36.2	39.1
MAX	223	221	180	180	150	247	197	1660	915	416	187	98
MIN	25	110	50	40	60	120	53	63	444	0.00	0.00	0.00
AC-FT	3880	10610	8340	7340	6820	10980	7480	41860	39070	5110	2230	2330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MEAN	102	153	164	154	158	225	275	661	781	214	72.2	57.5			
MAX	252	247	286	301	243	409	660	1908	2409	766	272	131			
(WY)	1998	1999	1996	1997	1988	1988	1997	1997	1997	1995	1997	1996			
MIN	33.5	91.6	58.7	50.8	53.6	102	49.3	145	58.6	3.86	8.52	9.63			
(WY)	1993	1993	2002	2002	2002	2002	1993	1992	2001	1994	1992	1990			

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1983 - 2005
ANNUAL TOTAL	57155.72	73634.07	
ANNUAL MEAN	156	202	251
HIGHEST ANNUAL MEAN			620
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	1300	1660	3410
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	6.0	0.06	0.00
ANNUAL RUNOFF (AC-FT)	113400	146100	182100
10 PERCENT EXCEEDS	324	583	519
50 PERCENT EXCEEDS	120	130	145
90 PERCENT EXCEEDS	30	24	26

e Estimated



## SNAKE RIVER BASIN

## 13057000 SNAKE RIVER NEAR MENAN, ID

LOCATION.--Lat 43°45'10", long 111°58'45" (revised), (NAD83), in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.22, T.5 N., R.38 E., Madison County, Menan Buttes quad., Hydrologic Unit 17040201, on right bank 2.4 mi north of Menan, and at mile 830.

PERIOD OF RECORD.--May to November 1923, July 2000 to current year. Monthly mean discharge for May to November 1923, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 4,800 ft above NGVD of 1929, from topographic map. Prior to July 2000 at different site and datum.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake and Grassy Lake. Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,700 ft<sup>3</sup>/s May 27, 1923, gage height, 6.70 ft, site and datum then in use; minimum daily, 962 ft<sup>3</sup>/s Oct. 28, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,500 ft<sup>3</sup>/s June 16, gage height, 6.19 ft; minimum, 1,420 ft<sup>3</sup>/s Apr. 13, gage height, 0.78 ft.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3370	3360	2420	2460	2220	2100	2170	4110	6550	7590	7220	5780
2	3100	3080	2480	2400	2150	2090	2020	3880	7190	6920	6810	5770
3	2900	3000	2410	2420	2120	2070	1910	3820	7900	6580	7120	5780
4	2780	3000	2400	2370	2100	2040	1920	4530	7690	7100	6720	5970
5	2790	2980	2390	2250	2170	2050	1980	4720	7220	6850	6450	6030
6	2910	2970	2270	2200	2120	2060	1840	4730	7260	6450	6340	6120
7	2930	2940	2390	2260	2170	2070	1690	5080	8030	6750	6220	6060
8	2910	2900	2560	2270	2100	2070	1660	5590	8820	7370	6280	5760
9	2790	2870	2620	2330	2090	2080	1890	5850	9110	7690	6140	5770
10	2650	2870	2600	2290	2100	2110	1780	6050	8960	7860	6250	5650
11	2430	2880	2620	2430	1990	2170	1650	6750	8920	8070	6030	5920
12	2440	2850	2630	2340	2150	2230	1480	7020	9510	8010	6710	6000
13	2360	2820	2570	e2000	2170	2280	1470	7000	10700	8080	6790	5710
14	2350	2800	2500	e1800	2140	2260	2250	6690	12400	7910	6840	5660
15	2270	2770	2790	e1850	2150	2210	2770	6210	13600	7800	6950	5700
16	2050	2730	2930	1900	1860	2180	2710	6270	14000	7930	7050	5670
17	1900	2680	2510	2250	1830	2180	2730	7530	12800	8110	6710	5710
18	1920	2700	2410	2580	1930	2160	3700	8890	11800	8220	6260	5790
19	1990	2700	2370	2620	2190	2130	4090	9350	11200	7560	6480	5530
20	2070	2690	2360	2660	2510	2180	4180	9540	10300	7710	6820	5090
21	2140	2670	2320	2680	2410	2270	3670	9960	8910	7890	6770	4910
22	2170	2560	2160	2580	2210	2410	3100	10400	8210	8060	6690	4940
23	2140	2560	2020	2400	2130	2360	2940	10400	8290	8010	6360	4470
24	2270	2630	1980	2340	2100	2460	3050	10100	8490	7680	5860	4370
25	2440	2650	2260	2270	2080	2390	3490	9410	8410	7860	5600	4440
26	2350	2710	2470	2290	2070	2320	4750	8410	8030	7390	5680	4450
27	2440	2660	2500	2310	2070	2230	5080	7170	7880	7440	5580	4120
28	2550	2600	2530	2330	2060	2230	4940	6180	7910	7500	5710	3970
29	3330	2290	2500	2330	---	2270	4510	6190	7990	7250	5800	4010
30	3600	2310	2570	2320	---	2410	4140	7030	8000	7170	5820	4070
31	3580	---	2500	2300	---	2340	---	6970	---	7130	5860	---
TOTAL	79920	83230	76040	71830	59390	68410	85560	215830	276080	233940	197920	159220
MEAN	2578	2774	2453	2317	2121	2207	2852	6962	9203	7546	6385	5307
MAX	3600	3360	2930	2680	2510	2460	5080	10400	14000	8220	7220	6120
MIN	1900	2290	1980	1800	1830	2040	1470	3820	6550	6450	5580	3970
AC-FT	158500	165100	150800	142500	117800	135700	169700	428100	547600	464000	392600	315800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005
MEAN	2765	2673	2433	2296	2351	2509
MAX	3651	3143	2770	2553	2743	2971
(WY)	2001	2001	2001	2003	2001	2001
MIN	2245	2358	2153	2026	2043	2207
(WY)	2004	2004	2004	2002	2002	2005

## SUMMARY STATISTICS

## FOR 2004 CALENDAR YEAR

## FOR 2005 WATER YEAR

## WATER YEARS 2000 - 2005

ANNUAL TOTAL	1670310	1607370		
ANNUAL MEAN	4564	4404		
HIGHEST ANNUAL MEAN			5003	2003
LOWEST ANNUAL MEAN			4273	2001
HIGHEST DAILY MEAN	16400	May 24	14000	Jun 16
LOWEST DAILY MEAN	1600	Jan 7	1470	Apr 13
ANNUAL SEVEN-DAY MINIMUM	1820	Jan 3	1660	Apr 7
ANNUAL RUNOFF (AC-FT)	3313000		3188000	
10 PERCENT EXCEEDS	7630		8000	
50 PERCENT EXCEEDS	2980		2900	
90 PERCENT EXCEEDS	2160		2080	

e Estimated



SNAKE RIVER BASIN

13057132 GREAT WESTERN CANAL SPILLBACK NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°36'03", long 112°03'43"(revised), (NAD83), in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.12, T.3 N., R.37 E., Bonneville County, Idaho Falls North quad., Hydrologic Unit 17040201, on right bank 3.2 mi north of Idaho Falls municipal powerplant, and 8 mi north of Idaho Falls.

PERIOD OF RECORD.--September 1987 to current year, (prior to October 1988, discharge measurements and gage height record only).

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Station equipment includes satellite telemetry. The flow is return discharge from the Great Western Canal, which spills back into the Snake River below gaging station 13057155 Snake River at Eagle Rock, but above the measuring cableway for that site. Daily discharges from the Spillback are not included in the flows for 13057155.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 761 ft<sup>3</sup>/s May 19, 1991; no flow for many days each year.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	0.00	0.00	0.00	0.00	0.00	0.00	342	211	174	164	121
2	128	0.00	0.00	0.00	0.00	0.00	0.00	237	217	175	166	123
3	127	0.00	0.00	0.00	0.00	0.00	0.00	276	225	176	173	130
4	118	0.00	0.00	0.00	0.00	0.00	0.00	248	245	187	173	137
5	117	0.00	0.00	0.00	0.00	0.00	0.00	254	253	176	164	138
6	121	0.00	0.00	0.00	0.00	0.00	0.00	242	259	154	162	139
7	124	0.00	0.00	0.00	0.00	0.00	0.00	241	310	137	161	142
8	124	0.00	0.00	0.00	0.00	0.00	0.00	249	307	151	158	142
9	127	0.00	0.00	0.00	0.00	0.00	0.00	253	301	173	151	138
10	128	0.00	0.00	0.00	0.00	0.00	0.00	228	300	166	147	150
11	133	0.00	0.00	0.00	0.00	0.00	0.00	230	295	161	145	163
12	134	0.00	0.00	0.00	0.00	0.00	0.00	228	294	157	156	172
13	62	0.00	0.00	0.00	0.00	0.00	0.00	228	271	151	165	175
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	223	252	151	169	176
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216	220	146	169	183
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	207	211	139	166	184
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	201	202	148	163	190
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235	184	146	152	195
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	248	166	141	e150	193
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	250	179	134	e150	191
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259	197	136	e145	195
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	231	167	141	e145	204
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	214	179	148	141	218
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	205	187	149	125	215
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	197	190	161	115	221
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	198	190	161	106	228
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194	183	156	106	225
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	178	182	157	110	218
29	0.00	0.00	0.00	0.00	---	0.00	171	189	177	157	113	218
30	0.00	0.00	0.00	0.00	---	0.00	344	207	177	158	112	219
31	0.00	---	0.00	0.00	---	0.00	---	210	---	160	115	---
TOTAL	1569.00	0.00	0.00	0.00	0.00	0.00	515.00	7118	6731	4827	4537	5343
MEAN	50.6	0.00	0.00	0.00	0.00	0.00	17.2	230	224	156	146	178
MAX	134	0.00	0.00	0.00	0.00	0.00	344	342	310	187	173	228
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	178	166	134	106	121
AC-FT	3110	0.00	0.00	0.00	0.00	0.00	1020	14120	13350	9570	9000	10600

CAL YR 2004 TOTAL 26197.00 MEAN 71.6 MAX 460 MIN 0.00 AC-FT 51960  
WTR YR 2005 TOTAL 30640.00 MEAN 83.9 MAX 344 MIN 0.00 AC-FT 60770

e Estimated

## SNAKE RIVER MAIN STEM

## 13057155 SNAKE RIVER ABOVE EAGLE ROCK NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°36'17", long 112°03'31", (NAD83), in NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.12, T.3 N., R.37 E., Bonneville County, Idaho Falls North quad., Hydrologic Unit 17040201, on right bank 3.5 mi upstream of Idaho Falls Municipal powerplant, 8.0 mi north of Idaho Falls, and at mile 805.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,730.00 ft above NGVD of 1929 (levels by U.S. Geological Survey). Records comparable with former station "Snake River near Idaho Falls" (sta 13057160) except during irrigation season.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake, and Grassy Lake. Diversions above station for irrigation of about 700,000 acres. Considerable water leaks above station into the Snake River Plain aquifer. To determine total discharge in the Snake River below Great Western Spillback, add daily discharges from 13057132 to 13057155.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft<sup>3</sup>/s June 16, 1997, gage height, 18.91 ft; minimum daily, 950 ft<sup>3</sup>/s Dec. 22, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,900 ft<sup>3</sup>/s June 16; minimum daily, 1,400 ft<sup>3</sup>/s Apr. 13.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3050	3540	e2300	e2400	e2200	e2050	e2250	3620	5370	5980	6390	4620
2	2860	3290	e2400	e2300	e2100	e2050	e2000	3550	5660	5370	6180	4590
3	2510	3080	e2300	e2400	e2000	e2000	e1800	3530	6520	5030	6280	4660
4	2230	3000	e2300	e2300	e2000	e2000	e1800	3940	6610	5270	6130	4850
5	2340	2930	e2300	e2200	e2100	e2000	e1850	4150	6360	5280	5620	4950
6	2470	2880	e2200	e2100	e2100	e2000	e1750	4120	6340	4870	5420	4920
7	2630	2860	e2300	e2200	e2100	e2000	e1650	4410	6930	4750	5260	4860
8	2600	2840	e2400	e2200	e2050	e2000	e1550	5010	7960	5180	5210	4710
9	2540	2740	e2500	e2300	e2050	e2050	e1800	5300	8380	5750	5060	4560
10	2510	2830	e2600	e2200	e2050	e2050	e1700	5450	8380	5900	5110	4800
11	2350	2810	e2500	e2400	e1900	e2100	e1600	5940	8050	6130	5140	5230
12	2160	2750	e2600	e2300	e2000	e2150	e1450	6470	8440	6050	5610	5280
13	2300	2760	2580	e1900	e2100	e2200	e1400	6530	9440	6080	5810	4990
14	2470	2740	2650	e1700	e2100	e2200	e2100	6300	6500	11000	6150	5990
15	2480	2730	2770	e1600	e2100	e2150	e2650	5800	12100	6030	6070	4860
16	2530	2640	3230	e1800	e1800	e2100	e2550	5740	12900	6200	6020	4900
17	2250	2570	2690	e2100	e1700	e2100	e2600	6560	12000	6660	5960	5020
18	2290	2580	2640	e2500	e1900	e2100	3340	7770	10800	6740	5390	5220
19	2480	2630	2410	e2600	e2100	e2050	3720	8380	9830	6390	5530	5190
20	2570	2620	2460	e2600	e2400	e2100	3870	8450	8980	5960	5690	4730
21	2620	2580	e2400	e2600	e2200	e2200	3640	8780	7400	6290	5820	4440
22	2520	2470	e2300	e2500	e2100	e2350	3040	9060	6260	6560	5720	4540
23	2490	2410	e1900	e2400	e2100	e2250	2880	9280	6110	6850	5490	4400
24	2670	2630	e2000	e2300	e2050	e2400	2810	8990	6390	6570	4760	4060
25	2880	2590	e2300	e2200	e2050	e2300	3060	8290	6490	6560	4460	4140
26	2790	2730	e2500	e2200	e2050	e2200	3740	7450	6350	6210	4420	4260
27	2950	2640	e2500	e2300	e2050	e2150	4480	6350	6220	6080	4460	4180
28	3050	2480	e2600	e2300	e2000	e2200	4510	5440	6230	6280	4510	3840
29	3340	e2200	e2600	e2300	---	e2250	4040	5130	6300	6230	4620	3820
30	3920	e2300	e2600	e2300	---	e2450	3820	5620	6280	6280	4600	3860
31	3720	---	e2600	e2200	---	e2350	---	5720	---	6150	4640	---
TOTAL	82570	81850	76430	69700	57450	66550	79450	191130	236080	185830	167370	139310
MEAN	2664	2728	2465	2248	2052	2147	2648	6165	7869	5995	5399	4644
MAX	3920	3540	3230	2600	2400	2450	4510	9280	12900	6850	6390	5280
MIN	2160	2200	1900	1600	1700	2000	1400	3530	5370	4750	4420	3820
AC-FT	163800	162300	151600	138200	114000	132000	157600	379100	468300	368600	332000	276300

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	3262	3401	3143	3241	3869	4892	6057	10400	12210	8110	6242	4908						
MAX	5884	6308	6560	7901	12100	16040	16260	24050	35400	14050	9863	7203						
(WY)	1998	1998	1998	1997	1997	1997	1997	1997	1997	1997	1997	1999						
MIN	2326	2258	1848	1816	1711	1987	2297	4911	6184	5767	4511	3703						
(WY)	2004	2004	2002	2002	2002	1988	1991	2002	2002	2001	2001	1988						

## SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1988 - 2005

ANNUAL TOTAL	1552830	1433720																
ANNUAL MEAN	4243	3928								5817								
HIGHEST ANNUAL MEAN										12880								1997
LOWEST ANNUAL MEAN										3797								2002
HIGHEST DAILY MEAN			15700	May 24			12900	Jun 16		47900	Jun 16	1997						
LOWEST DAILY MEAN			1300	Jan 7			1400	Apr 13		950	Dec 22	1990						
ANNUAL SEVEN-DAY MINIMUM			1630	Jan 3			1590	Apr 7		1210	Dec 19	1990						
ANNUAL RUNOFF (AC-FT)	3080000	2844000								4214000								
10 PERCENT EXCEEDS	6850	6420								11200								
50 PERCENT EXCEEDS	2950	2830								4470								
90 PERCENT EXCEEDS	2100	2050								2190								

e Estimated