



**Figure 9.** 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", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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.--No estimated daily discharges. 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, 14,500 ft<sup>3</sup>/s June 26, gage height, 9.66 ft; minimum, 689 ft<sup>3</sup>/s Feb. 2, gage height, 4.21 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	4290	1140	1010	995	985	1000	1040	3720	12000	13900	9920	8450
2	3580	1130	1010	992	969	1010	1030	4280	12000	13900	9910	7930
3	2570	1130	1000	991	995	1010	1030	4570	12100	13900	9890	7500
4	2570	1080	1010	990	1000	1010	1040	4620	12000	13900	9950	6970
5	2560	1030	1000	996	1020	1010	1050	4610	12000	13900	9940	6550
6	2550	1050	995	991	1030	1010	1050	4630	12000	13900	9920	6550
7	2560	1060	1000	1000	1020	1000	1030	4620	12000	14000	9910	6580
8	2560	1070	996	995	1010	1000	1030	4610	12000	13900	9900	6590
9	2570	1080	997	995	1010	1040	1040	4900	11900	13900	9900	6560
10	2570	1070	994	993	998	1010	1030	5850	12000	13900	9870	6560
11	2400	1060	995	1000	999	1000	1210	6040	12000	13900	9920	6550
12	2070	1050	1010	998	1010	1000	1590	6410	12000	13900	9900	6540
13	2080	1040	1000	997	1010	1010	1810	7000	12900	13900	9880	6570
14	2070	1060	998	1000	998	1010	1800	7740	13000	14000	9890	6280
15	1900	1050	996	996	1000	1010	1800	8440	13000	13900	9010	6050
16	1740	1060	992	998	1010	997	1790	8750	13200	14000	8510	6070
17	1760	1030	998	1010	1010	1010	1790	8960	13500	14000	8490	6090
18	1740	1040	993	993	1010	1010	1810	8960	13700	13900	8470	6090
19	1640	1040	1000	1000	1010	1010	2680	8960	14000	13900	8430	6040
20	1640	1020	1000	998	994	1000	2800	8960	14000	13900	8460	5950
21	1590	1060	1010	997	1010	1010	2800	9680	14000	13900	8470	5950
22	1310	1040	1000	997	1020	1050	2800	10600	14000	13900	8470	5930
23	1320	1050	1000	990	1010	1050	2810	11300	14000	13900	8490	5930
24	1330	1030	1010	992	1010	1050	2810	12000	14000	13900	8490	5070
25	1330	1020	1010	995	1000	1030	2810	12000	13900	14000	8490	5010
26	1300	1020	995	993	1000	1040	2800	12000	13700	13900	8490	5020
27	1300	1030	999	994	1010	1040	3290	12000	14000	13900	8490	5020
28	1320	1030	1000	1010	997	1030	3380	12000	13900	13400	8480	5020
29	1310	1020	997	998	---	1030	3340	12000	14000	12300	8480	5020
30	1290	1020	997	999	---	1030	3360	12000	13900	11000	8470	5020
31	1180	---	998	993	---	1040	---	12000	---	10000	8480	---
TOTAL	62000	31610	31010	30886	28127	31527	59650	254210	390700	422500	283370	185460
MEAN	2000	1054	1000	996	1005	1017	1988	8200	13020	13630	9141	6182
MAX	4290	1140	1010	1010	1030	1050	3380	12000	14000	14000	9950	8450
MIN	1180	1020	992	990	969	997	1030	3720	11900	10000	8430	5010
AC-FT	123000	62700	61510	61260	55790	62530	118300	504200	775000	838000	562100	367900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2003, BY WATER YEAR (WY)												
MEAN	3229	2155	2163	2245	2401	3534	6045	12040	14990	13040	8964	6542
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	9706	8757	6539	3439
(WY)	1978	1989	1989	1989	1989	1977	1963	1993	1940	1940	2001	1940

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1935 - 2003
ANNUAL TOTAL	1619030	1811050	
ANNUAL MEAN	4436	4962	6472
HIGHEST ANNUAL MEAN			10710
LOWEST ANNUAL MEAN			4394
HIGHEST DAILY MEAN	13100	Jul 6	14000
LOWEST DAILY MEAN	992	Dec 16	969
ANNUAL SEVEN-DAY MINIMUM	997	Dec 5	991
ANNUAL RUNOFF (AC-FT)	3211000	3592000	4689000
10 PERCENT EXCEEDS	11100	13900	13800
50 PERCENT EXCEEDS	1300	1800	4410
90 PERCENT EXCEEDS	1030	997	1140

## SNAKE RIVER MAIN STEM

13037500 SNAKE RIVER NEAR HEISE, ID

LOCATION.--Lat 43°36'45", long 111°39'36", 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.

## WATER-DISCHARGE RECORDS

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 good except for estimated daily discharges, which are 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 was estimated as 65,000 ft<sup>3</sup>/s by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 14,900 ft<sup>3</sup>/s July 24-27; minimum daily, 1,300 ft<sup>3</sup>/s Feb. 24.

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	5170	1590	1470	1470	1670	1420	1520	4250	13500	14400	10700	9070
2	4210	1570	1470	1440	1570	1420	1540	4680	13400	14400	10700	8800
3	3380	1560	1470	1450	1510	1450	1520	5100	13300	14500	10700	8010
4	3080	1560	1460	1440	1500	1450	1510	5280	13200	14500	10800	7750
5	3060	1470	1470	1450	e1450	1430	1500	5340	13100	14500	10700	6970
6	3040	1470	1460	1430	e1400	1420	1510	5260	13100	14500	10700	6970
7	3030	1500	1450	e1400	e1400	1420	1520	5230	13000	14600	10700	7010
8	3020	1520	1450	e1400	e1400	1430	1490	5200	13000	14600	10700	6990
9	3030	1540	1470	e1400	e1450	1430	1490	5280	13000	14500	10800	6970
10	3030	1550	1470	e1450	1450	1500	1540	6180	13000	14600	10700	7000
11	3000	1530	1470	1460	1430	1540	1710	6500	12900	14500	10800	6970
12	2600	1510	1460	1460	1430	1540	2090	6900	12900	14500	10800	6930
13	2530	1500	1470	1460	1460	1570	2600	7570	13500	14600	10800	6950
14	2520	1500	1460	1460	1480	1590	2710	8370	13900	14700	10900	6810
15	2480	1500	1470	1450	1470	1530	2770	9460	13900	14800	10200	6390
16	2200	1500	1450	1440	1480	1530	2630	9820	13900	14800	9390	6370
17	2190	1500	1470	e1400	1460	1510	2540	10400	14200	14800	9140	6390
18	2210	1480	1460	e1400	1450	1500	2530	10300	14300	14700	9130	6400
19	2110	1490	1450	e1400	1450	1470	2940	10100	14700	14700	9090	6380
20	2090	1480	1460	e1400	1440	1470	3450	9990	14600	14800	9080	6240
21	2090	1470	1480	1460	1440	1460	3530	10500	14700	14800	9110	6260
22	1870	1500	1480	1450	1460	1490	3620	11500	14600	14800	9150	6240
23	1780	1520	1460	1460	e1400	1520	3690	12500	14500	14800	9160	6240
24	1800	1530	e1450	1440	e1300	1530	3640	13700	14600	14900	9120	5730
25	1790	1490	e1450	1440	e1350	1500	3710	13700	14600	14900	9120	5390
26	1780	1460	1470	1440	e1400	1530	3760	13800	14300	14900	9080	5390
27	1730	1480	1450	1470	1430	1520	3910	13800	14500	14900	9100	5400
28	1760	1480	1480	1520	1430	1490	4120	13700	14500	14600	9070	5400
29	1770	1480	1460	1480	---	1480	4060	13700	14500	13600	9110	5410
30	1780	1470	1450	1510	---	1480	4050	13600	14500	12200	9190	5430
31	1680	---	1470	1690	---	1480	---	13600	---	11100	9100	---
TOTAL	77810	45200	45360	45020	40560	46100	79200	285310	415700	447500	306840	198260
MEAN	2510	1507	1463	1452	1449	1487	2640	9204	13860	14440	9898	6609
MAX	5170	1590	1480	1690	1670	1590	4120	13800	14700	14900	10900	9070
MIN	1680	1460	1450	1400	1300	1420	1490	4250	12900	11100	9070	5390
AC-FT	154300	89650	89970	89300	80450	91440	157100	565900	824500	887600	608600	393200
MEAN†	3133	2757	2589	2652	2652	3015	5644	14452	14901	6041	3919	3374
AC-FT†	169700	90800	95900	100700	88900	102300	144300	729800	802100	617000	324400	226900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	3642	2818	2669	2608	2679
MAX	8179	5758	6270	6233	10520
(WY)	1972	1984	1984	1984	1997
MIN	1666	1183	1064	1084	1040
(WY)	1978	1989	1989	1989	1988

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1911 - 2003
ANNUAL TOTAL	1806890	2032860	
ANNUAL MEAN	4950	5569	6976
ADJUSTED ANNUAL TOTAL†	1863330	1984380	
ADJUSTED ANNUAL MEAN†	5104	5437	
HIGHEST ANNUAL MEAN			11590
LOWEST ANNUAL MEAN			4117
HIGHEST DAILY MEAN	13700	Jul 22	14900
LOWEST DAILY MEAN	1200	Jan 30	1300
ANNUAL SEVEN-DAY MINIMUM	1300	Jan 28	1390
ANNUAL RUNOFF (AC-FT)	3584000	4032000	5054000
10 PERCENT EXCEEDS	11800	14500	14900
50 PERCENT EXCEEDS	1790	2530	4330
90 PERCENT EXCEEDS	1340	1450	1810

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

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to 1996, April to October 1999, April to June 2002, July to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: January 1953 to September 1976, March 1978 to July 1979, May 31 to September 19, 1996, May 1, 1999 to September 30, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 20 °C Aug. 6, 7, 1970; minimum, 0.0 °C on many days during winter periods.

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, 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, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUL 21...	1155	14900	247	8.1	29.1	17.1	2.1	10.9	135	S21	--	--	--
AUG 15...	1445	9770	293	8.6	33.5	20.3	1.9	8.7	116	S10	--	--	--
SEP 05...	1140	6970	313	8.1	19.7	15.8	2.1	7.1	85	S6	140	40.2	8.94

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, 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 21...	--	--	--	--	--	--	--	--	--	--	<.015	.19	.027
AUG 15...	--	--	--	--	--	--	--	--	--	--	<.015	.15	<.022
SEP 05...	13.3	17	2.33	126	.0	103	32.4	10.7	.6	10.5	<.015	.11	.024

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 21...	<.007	.017	6	241
AUG 15...	<.007	.014	3	79
SEP 05...	<.007	.015	5	94

< Less than  
S Most probable value

SNAKE RIVER MAIN STEM  
13038000 DRY BED NEAR RIRIE, ID

LOCATION.--Lat 43°38'20", long 111°42'56", 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.

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	1580	615	229	226	274	227	61	1010	4610	3820	2690	1630
2	1430	543	229	224	260	226	61	1120	4630	4300	2690	1610
3	1220	541	228	224	234	228	61	1630	4620	4310	2690	1580
4	969	541	231	223	234	227	61	1760	4610	4330	2680	1570
5	967	525	231	223	232	226	61	1770	4610	4270	2650	1520
6	875	523	230	222	e230	227	59	1950	4620	3990	2610	1510
7	783	530	232	222	e230	226	51	1960	4480	3760	2580	1520
8	781	534	232	e220	e230	226	45	2120	4200	3780	2420	1520
9	786	440	233	e220	e230	225	42	2370	4030	3760	2420	1550
10	790	312	234	e220	234	227	77	2780	4020	3630	2410	1710
11	810	312	235	e240	233	229	296	2690	4010	3640	2410	1700
12	789	309	234	256	232	229	454	2710	4010	3640	2410	1690
13	777	310	236	255	233	229	490	2780	4090	3590	2510	1680
14	776	312	235	254	233	229	499	2990	4240	3170	2520	1670
15	773	312	236	253	232	225	505	3130	4300	3440	2470	1630
16	727	310	238	252	233	191	496	3370	4290	3440	2400	1740
17	727	313	238	228	231	152	492	3800	4330	3470	2370	1810
18	729	313	237	e200	231	216	494	3770	4350	3420	2370	1810
19	714	313	236	e200	230	217	517	3730	4410	2970	2360	1800
20	711	312	236	e200	229	217	562	3700	4380	2980	2370	1780
21	711	314	237	201	229	217	630	3770	4340	2990	2380	1780
22	670	315	236	200	230	218	640	4260	4340	3000	2400	1770
23	649	316	e220	200	229	220	643	4300	4340	2980	2240	1770
24	654	318	e220	199	e230	219	641	4320	4310	2740	2070	1700
25	652	317	e220	198	e230	218	667	4210	4300	2760	1990	1650
26	649	315	e220	233	e230	220	845	4220	4260	2760	1990	1690
27	645	315	e220	269	229	218	857	4260	4200	2400	1950	1850
28	652	267	229	271	228	216	865	4500	3770	2000	1630	1850
29	655	228	228	268	---	216	853	4510	3610	2050	1630	1840
30	658	228	226	269	---	216	880	4580	3580	2470	1630	1840
31	654	---	226	274	---	172	---	4640	---	2680	1620	---
TOTAL	24963	11153	7152	7144	6540	6749	12905	98710	127890	102540	71560	50770
MEAN	805	372	231	230	234	218	430	3184	4263	3308	2308	1692
MAX	1580	615	238	274	274	229	880	4640	4630	4330	2690	1850
MIN	645	228	220	198	228	152	42	1010	3580	2000	1620	1510
AC-FT	49510	22120	14190	14170	12970	13390	25600	195800	253700	203400	141900	100700
CAL YR 2002	TOTAL 504347.00	MEAN 1382	MAX 4420	MIN 0.00	AC-FT 1000000							
WTR YR 2003	TOTAL 528076	MEAN 1447	MAX 4640	MIN 42	AC-FT 1047000							

e Estimated



## HENRYS FORK BASIN

## 13039000 HENRYS LAKE NEAR LAKE, ID

LOCATION.--Lat 44°35'50", long 111°21'13", 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, 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, 81,900 acre-ft June 24, gage height, 15.40 ft; maximum gage height, 15.66 ft, June 25 (wind affected); minimum contents, 62,400 acre-ft Oct. 27, gage height, 12.26 ft.

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

12.00	60,800
14.00	73,000
16.00	85,800

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	62700	62700	64400	66000	67900	69300	71200	75800	79400	81600	75600	65200
2	62700	62700	64400	65800	67800	69300	71600	75800	79800	e81500	e75300	64900
3	62700	62800	64300	65900	67800	69200	71800	76200	80000	81500	75100	64600
4	62800	62800	64400	66100	68000	69500	71800	76600	79900	81100	74800	64300
5	62800	62800	64400	66100	68100	69600	71900	76700	79900	81100	74500	64000
6	62800	62800	64600	66200	68000	69500	71900	76800	e80100	e81300	74100	63700
7	62700	e63000	64500	66100	67900	69500	72100	76900	80100	81300	73400	63500
8	62700	63100	64600	66100	68100	69600	72100	76900	80300	81000	73400	63300
9	62600	63200	64700	66300	68400	69600	72200	77000	80500	80900	73000	63200
10	e62600	63200	64600	66200	68200	69500	72200	76900	80600	80600	72700	63200
11	62600	63200	64700	66300	68200	69600	72400	e76800	80800	80400	72200	63200
12	62700	63400	64800	66400	68400	69700	72600	76800	e81000	80100	71900	63200
13	62500	63400	64900	66400	68500	69900	72800	76900	81100	79800	71600	63000
14	62700	63400	65000	66600	68700	69700	73000	77000	81300	79600	71100	63000
15	62700	63600	65000	66700	68500	69800	73400	76900	e81500	79200	71100	63000
16	62600	63500	65200	66700	68800	70100	73400	76900	81400	79100	e70700	62800
17	62700	63600	65300	66600	68800	70100	73600	76800	81400	78800	70300	62800
18	62700	63600	65200	66700	68900	70300	73700	e76800	81700	78600	69900	62800
19	62700	63700	65300	66800	69200	70300	73700	76800	81700	78300	69600	62900
20	62800	63800	65400	66700	68900	70300	73600	76900	e81500	78000	69200	62800
21	e62700	63900	65500	66900	69000	70300	73800	77000	81500	77800	68500	62700
22	e62700	64000	65500	67000	69200	70400	74200	77100	81700	77500	e68400	62700
23	62700	64000	65600	67000	69200	70600	74400	77100	81700	77300	68200	62700
24	62700	64000	65500	67100	69100	70700	74600	e77100	81800	e77100	67800	62600
25	62700	64100	65600	67200	69200	70600	74600	77100	81800	76900	67500	62700
26	62800	64100	65800	67400	69100	70900	74900	77100	81800	77000	67200	62700
27	62600	64100	65800	67500	69200	70800	75200	77500	81800	76800	66900	62700
28	e62700	64000	65800	67700	69200	71000	75300	77500	81700	76700	67200	63000
29	62800	64200	65800	67600	---	71000	75500	77800	81700	76400	66100	62500
30	e62700	64200	65800	67700	---	71100	75700	e78100	81700	76100	65800	62500
31	62700	---	66000	67700	---	71000	---	78500	---	75800	65500	---
MAX	62800	64200	66000	67700	69200	71100	75700	78500	81800	81600	75600	65200
MIN	62500	62700	64300	65800	67800	69200	71200	75800	79400	75800	65500	62500
†	12.31	12.57	12.85	13.13	13.38	13.67	14.42	14.87	15.36	14.44	12.77	12.28
‡	0	1500	1800	1700	1500	1800	4700	2800	3200	-5900	-10300	-3000

CAL YR 2002 MAX 67500 MIN 52500 ‡ 13400  
WTR YR 2003 MAX 81800 MIN 62500 ‡ -200

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

HENRY'S FORK BASIN

13039500 HENRY'S FORK NEAR LAKE, ID

LOCATION.--Lat 44°35'40", long 111°20'59", in NE¼SW¼ sec.26, T.15 N., R.43 E., Fremont County, Big Springs quad., Hydrologic Unit 17040202, on left bank 0.2 mi downstream from Henry's Lake Dam, 5.4 mi south of former Lake Post Office, and at mile 117.1.

DRAINAGE AREA.--99.3 mi<sup>2</sup>, including 6.2 mi<sup>2</sup> of Dry Creek basin.

PERIOD OF RECORD.--May 1920 to current year (prior to October 1929, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,437.06 ft above NGVD of 1929, U.S. Army Corps of Engineers benchmark (levels by Bureau of Reclamation). May 1920 to September 1922, nonrecording gage at site 3 mi downstream and below mouth of Dry Creek at different datum. September 1922 to July 30, 1978, recording gage at site 140 ft upstream at different datum. July 31, 1978 to July 27, 1989 at present site at datum 4.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Henry's Lake (see sta 13039000). Since 1923, floodwaters of Dry (Tyghee) Creek have been diverted at times into Henry's Lake (some diverted during 1980).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 907 ft<sup>3</sup>/s June 13, 1926, gage height, 5.40 ft, site and datum then in use; maximum gage height, 6.21 ft, Aug. 24, 1992; no flow for part of each day Sept. 17, 18, 1952, Sept. 5, 7-30, Oct. 1, 2, 1966, Sept. 18 to Oct. 6, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Outflow from Henry's Lake was reported to have ceased entirely in late summer of 1889.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 149 ft<sup>3</sup>/s Sept. 6, 7; minimum daily, 0.5 ft<sup>3</sup>/s on many days.

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	5.0	e4.0	e0.50	e0.50	e0.50	e0.50	1.8	1.9	2.1	13	110	143
2	5.2	e4.0	e0.50	e0.50	e0.50	e1.0	2.0	1.9	2.1	13	110	143
3	5.0	e4.0	e0.50	e0.50	e0.50	e1.0	2.4	1.9	2.1	13	111	143
4	5.1	e2.0	e0.50	e0.50	e0.50	e1.0	2.2	1.9	2.2	12	122	143
5	5.0	e1.0	e0.50	e0.50	e0.50	e1.0	2.3	2.1	2.1	12	138	145
6	5.0	e1.0	e0.50	e0.50	e0.50	e1.0	2.7	2.0	4.4	12	137	149
7	5.1	e1.0	e0.50	e0.50	e0.50	e1.0	2.2	1.9	11	13	137	149
8	5.0	e1.0	e0.50	e0.50	e0.50	e1.0	2.1	1.7	12	12	136	130
9	5.0	e1.0	e0.50	e0.50	e0.50	e1.0	1.9	1.6	12	39	135	92
10	5.0	e1.0	e0.50	e0.50	e0.50	e1.0	1.9	1.6	12	89	135	56
11	4.8	e0.50	e0.50	e0.50	e0.50	e1.0	2.1	1.6	11	90	135	1.8
12	4.8	e0.50	e0.50	e0.50	e0.50	e1.0	2.2	1.7	12	94	134	1.4
13	4.6	e0.50	e0.50	e0.50	e0.50	e1.0	2.2	1.5	12	100	134	1.3
14	4.6	e0.50	e0.50	e0.50	e0.50	e1.5	2.4	1.5	12	100	134	1.3
15	4.5	e0.50	e0.50	e0.50	e0.50	e1.5	2.5	1.6	12	100	134	1.4
16	4.5	e0.50	e0.50	e0.50	e0.50	e1.5	2.4	1.7	13	102	134	1.3
17	4.6	e0.50	e0.50	e0.50	e0.50	e1.5	2.3	1.6	12	104	134	1.2
18	4.6	e0.50	e0.50	e0.50	e0.50	e1.5	2.2	1.6	13	104	134	1.2
19	4.5	e0.50	e0.50	e0.50	e0.50	e1.5	2.1	1.7	13	105	134	1.1
20	4.5	e0.50	e0.50	e0.50	e0.50	e1.5	2.0	1.9	13	106	134	1.1
21	4.5	e0.50	e0.50	e0.50	e0.50	2.0	2.0	1.9	13	106	134	1.1
22	4.3	e0.50	e0.50	e0.50	e0.50	1.9	1.9	1.9	13	106	136	1.1
23	4.3	e0.50	e0.50	e0.50	e0.50	2.0	1.9	1.9	13	106	137	1.2
24	4.3	e0.50	e0.50	e0.50	e0.50	2.3	1.9	1.9	13	107	138	1.2
25	4.3	e0.50	e0.50	e0.50	e0.50	2.0	2.0	2.1	13	107	139	1.3
26	4.3	e0.50	e0.50	e0.50	e0.50	1.8	2.2	5.4	13	109	140	1.3
27	4.3	e0.50	e0.50	e0.50	e0.50	2.2	2.0	8.0	13	109	142	1.2
28	4.3	e0.50	e0.50	e0.50	e0.50	2.3	1.9	6.5	13	109	143	1.2
29	e4.0	e0.50	e0.50	e0.50	---	2.1	2.1	2.4	13	109	143	1.2
30	e4.0	e0.50	e0.50	e0.50	---	2.0	2.1	2.2	13	109	143	1.2
31	e4.0	---	e0.50	e0.50	---	1.9	---	2.1	---	109	143	---
TOTAL	143.0	30.00	15.50	15.50	14.00	45.50	63.9	71.2	315.0	2419	4150	1318.1
MEAN	4.61	1.00	0.50	0.50	0.50	1.47	2.13	2.30	10.5	78.0	134	43.9
MAX	5.2	4.0	0.50	0.50	0.50	2.3	2.7	8.0	13	109	143	149
MIN	4.0	0.50	0.50	0.50	0.50	0.50	1.8	1.5	2.1	12	110	1.1
AC-FT	284	60	31	31	28	90	127	141	625	4800	8230	2610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2003, BY WATER YEAR (WY)												
MEAN	21.6	17.4	18.0	19.8	23.4	26.5	36.1	61.9	98.7	145	138	50.3
MAX	97.4	88.5	102	83.8	121	139	170	388	267	530	492	154
(WY)	1972	1984	1984	1984	1997	1997	1969	1922	1947	1926	1929	1948
MIN	0.19	0.32	0.36	0.38	0.36	0.50	1.00	0.90	2.60	11.4	14.4	3.13
(WY)	1978	1989	1989	1989	1989	2002	1938	1989	1935	2002	1989	1966

SUMMARY STATISTICS		FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1920 - 2003	
ANNUAL TOTAL		1888.27		8600.70			
ANNUAL MEAN		5.17		23.6		53.4	
HIGHEST ANNUAL MEAN						113	1984
LOWEST ANNUAL MEAN						4.11	1989
HIGHEST DAILY MEAN		41	Aug 2	149	Sep 6	762	Jul 29 1929
LOWEST DAILY MEAN		0.49	May 25	0.50	Nov 11	0.00	Sep 5 1966
ANNUAL SEVEN-DAY MINIMUM		0.50	Jan 1	0.50	Nov 11	0.00	Sep 7 1966
ANNUAL RUNOFF (AC-FT)		3750		17060		38660	
10 PERCENT EXCEEDS		11		115		144	
50 PERCENT EXCEEDS		1.1		1.9		23	
90 PERCENT EXCEEDS		0.50		0.50		2.0	

e Estimated



## HENRYS FORK BASIN

## 13041010 HENRYS FORK BELOW COFFEE POT RAPIDS NEAR MACKS INN, ID

LOCATION.--Lat 44°29'00", long 111°23'40", in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.4, T.13 N., R.43 E., Fremont County, Island Park Dam quad., Hydrologic Unit 17040202, on foot bridge 11.45 mi upstream from the McCrea Bridge, 3 mi southwest of Mack's Inn, and at mile 100.9.

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,310 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 is partly regulated by Henrys Lake Dam 16.4 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft<sup>3</sup>/s May 9, 1997, gage height, 5.20 ft; minimum daily, 246 ft<sup>3</sup>/s July 31, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 843 ft<sup>3</sup>/s Apr. 22, 23, gage height, 3.99 ft; minimum daily, 200 ft<sup>3</sup>/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	284	262	265	e250	250	e220	267	436	449	276	317	382
2	277	265	264	254	250	230	283	349	429	275	317	384
3	277	265	260	258	e240	231	280	368	385	281	320	388
4	283	264	261	265	e240	235	266	513	377	280	336	393
5	291	265	263	e260	e230	238	269	555	356	277	363	393
6	279	263	265	e260	e230	233	271	551	358	276	390	402
7	276	266	265	e250	e220	237	269	512	345	273	384	393
8	276	274	257	e250	e230	236	267	417	339	269	394	417
9	277	278	e250	e250	e230	240	281	419	330	269	387	351
10	278	278	e250	e240	239	246	280	417	324	303	383	311
11	280	275	256	241	237	242	306	395	324	322	403	295
12	275	272	258	249	e230	246	335	389	327	321	377	282
13	274	270	264	251	249	258	387	390	314	323	376	273
14	273	274	265	251	252	272	355	391	312	326	380	273
15	272	273	262	249	245	265	400	387	308	327	380	285
16	271	263	261	e240	250	276	376	394	288	324	382	271
17	274	263	264	e230	257	270	451	379	268	325	375	265
18	272	265	e250	e240	264	265	405	385	e280	323	374	257
19	272	265	253	240	256	260	400	379	e280	323	374	260
20	272	263	251	251	250	261	455	363	e300	325	376	265
21	273	266	254	257	251	257	567	384	e300	326	391	262
22	273	266	256	255	248	259	615	357	e320	321	387	272
23	269	275	e250	248	e230	261	693	374	e300	322	389	284
24	282	268	e240	244	e220	261	582	356	298	323	392	267
25	276	e260	e250	242	e200	266	525	370	291	328	381	262
26	275	263	251	248	e210	266	519	407	300	330	380	268
27	273	265	252	254	e210	253	400	401	297	333	380	268
28	273	265	255	246	e220	250	409	434	306	328	380	255
29	270	264	255	248	---	249	419	442	294	326	391	250
30	259	265	251	260	---	247	473	444	281	323	378	262
31	258	---	252	261	---	253	---	456	---	322	371	---
TOTAL	8514	8020	7950	7742	6638	7783	11805	12814	9680	9600	11608	9190
MEAN	275	267	256	250	237	251	394	413	323	310	374	306
MAX	291	278	265	265	264	276	693	555	449	333	403	417
MIN	258	260	240	230	200	220	266	349	268	269	317	250
AC-FT	16890	15910	15770	15360	13170	15440	23420	25420	19200	19040	23020	18230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2003, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	416	405	395	399	393	384	497	753
MAX	544	510	494	507	512	523	677	1162
(WY)	1998	1998	1998	1998	1997	1997	2000	1997
MIN	275	267	256	250	237	251	328	404
(WY)	2003	2003	2003	2003	2003	2003	2002	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1996 - 2003
ANNUAL TOTAL	107518	111344	
ANNUAL MEAN	295	305	463
HIGHEST ANNUAL MEAN			600
LOWEST ANNUAL MEAN			300
HIGHEST DAILY MEAN	821	693	1840
LOWEST DAILY MEAN	240	200	200
ANNUAL SEVEN-DAY MINIMUM	249	216	216
ANNUAL RUNOFF (AC-FT)	213300	220900	335800
10 PERCENT EXCEEDS	360	394	657
50 PERCENT EXCEEDS	274	273	451
90 PERCENT EXCEEDS	257	246	273

e Estimated

HENRY'S FORK BASIN

13042500 HENRY'S FORK NEAR ISLAND PARK, ID

LOCATION.--Lat 44°25'00", long 111°23'41", in SW¼SW¼ 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 good. Station equipment includes satellite telemetry. Flow regulated by Henry's 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 subirrigated 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 daily discharge, 1,470 ft<sup>3</sup>/s July 14; minimum daily, 92 ft<sup>3</sup>/s Feb. 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	313	171	157	105	92	99	99	348	524	1260	1450	1190
2	299	170	157	105	94	100	100	346	524	1360	1440	1100
3	310	170	155	104	97	98	102	345	527	1360	1430	990
4	311	169	154	101	98	97	102	352	524	1370	1440	988
5	309	168	154	100	98	102	104	353	530	1380	1440	988
6	309	166	154	103	99	99	102	358	532	1370	1430	1010
7	299	166	154	104	100	99	103	354	533	1380	1430	999
8	275	168	155	105	98	98	184	348	530	1410	1420	928
9	262	166	139	105	99	98	302	349	523	1400	1420	837
10	257	165	114	106	97	98	301	348	519	1380	1410	700
11	257	168	105	105	98	98	300	341	511	1430	1400	689
12	265	167	103	104	97	98	300	350	512	1460	1400	682
13	261	167	104	101	97	97	311	352	504	1460	1380	673
14	262	168	104	100	96	98	325	338	512	1470	1380	675
15	259	169	103	100	95	99	329	329	495	1460	1360	672
16	255	167	104	102	96	99	331	325	480	1440	1370	663
17	256	168	104	104	97	101	330	330	547	1440	1360	583
18	242	170	109	105	97	100	322	342	675	1420	1350	432
19	233	168	109	105	97	100	325	353	732	1420	1330	366
20	231	165	112	105	99	101	321	342	754	1420	1280	362
21	219	164	109	104	98	101	317	337	772	1410	1260	361
22	181	161	105	106	98	100	318	331	788	1410	1280	357
23	163	159	107	103	99	99	325	315	789	1410	1200	352
24	167	163	108	102	104	102	332	306	783	1410	1200	352
25	168	164	107	100	105	100	339	315	922	1420	1230	352
26	168	163	107	100	103	99	348	310	1010	1440	1210	344
27	167	161	105	97	101	101	344	315	991	1450	1210	348
28	166	159	103	95	101	102	345	397	980	1450	1220	344
29	169	158	103	95	---	102	340	508	984	1450	1230	338
30	171	155	106	94	---	99	344	505	1080	1450	1240	347
31	172	---	105	93	---	99	---	522	---	1450	1200	---
TOTAL	7376	4963	3715	3158	2750	3083	8045	11064	20087	43840	41400	19022
MEAN	238	165	120	102	98.2	99.5	268	357	670	1414	1335	634
MAX	313	171	157	106	105	102	348	522	1080	1470	1450	1190
MIN	163	155	103	93	92	97	99	306	480	1260	1200	338
AC-FT	14630	9840	7370	6260	5450	6120	15960	21950	39840	86960	82120	37730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2003, BY WATER YEAR (WY)

	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
MEAN	432	322	285	270	307	333	491	1005	996	1152	1126	728																																														
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	357	438	485	349	312																																														
(WY)	1980	1980	1939	1939	1939	1939	1941	2003	1934	1934	1934	1990																																														

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1933 - 2003
ANNUAL TOTAL	166381	168503	
ANNUAL MEAN	456	462	625
HIGHEST ANNUAL MEAN			1045
LOWEST ANNUAL MEAN			398
HIGHEST DAILY MEAN	1320	1470	2990
LOWEST DAILY MEAN	103	92	1.0
ANNUAL SEVEN-DAY MINIMUM	104	94	1.0
ANNUAL RUNOFF (AC-FT)	330000	334200	452600
10 PERCENT EXCEEDS	1050	1380	1300
50 PERCENT EXCEEDS	170	275	536
90 PERCENT EXCEEDS	110	99	15

## HENRYS FORK BASIN

## 13046000 HENRYS FORK NEAR ASHTON, ID

LOCATION.--Lat 44°04'11", long 111°30'38", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  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.--No estimated daily discharges. Records good. 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 daily discharge, 2,500 ft<sup>3</sup>/s Aug. 5; minimum daily, 643 ft<sup>3</sup>/s Jan. 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	1180	804	894	745	854	784	788	1570	1470	1990	2400	2200
2	1120	802	884	775	855	776	859	1540	1510	2250	2430	2240
3	1020	785	876	764	794	778	855	1530	1470	2230	2440	2010
4	1140	743	876	751	798	824	850	1820	1460	2240	2450	1930
5	1100	831	876	748	762	745	773	1910	1430	2230	2500	1940
6	1040	815	876	743	758	784	805	1820	1420	2220	2480	1960
7	1110	836	879	695	713	847	788	1750	1420	2220	2390	1950
8	1050	842	838	643	850	774	755	1750	1430	2200	2430	1980
9	994	886	861	797	811	773	924	1660	1410	2210	2430	1890
10	981	868	866	652	880	787	1140	1620	1400	2220	2460	1730
11	985	854	850	709	777	817	1290	1620	1380	2220	2450	1610
12	979	823	813	770	787	793	1350	1620	1400	2270	2410	1610
13	976	823	859	820	809	922	1530	1670	1390	2320	2420	1630
14	969	837	860	757	888	963	1430	1710	1390	2310	2440	1540
15	969	844	879	761	844	933	1630	1730	1390	2340	2500	1570
16	969	840	880	728	821	937	1480	1760	1400	2350	2470	1600
17	969	844	745	679	803	930	1410	1730	1340	2330	2440	1570
18	974	847	920	672	807	858	1480	1660	1460	2330	2460	1400
19	982	851	740	732	812	820	1490	1540	1600	2350	2470	1310
20	958	855	894	737	754	820	1430	1490	1650	2330	2430	1270
21	892	852	785	694	791	825	1440	1430	1660	2360	2340	1250
22	892	857	833	741	806	829	1620	1400	1650	2340	2440	1230
23	886	906	845	732	796	855	1650	1410	1650	2350	2440	1240
24	852	863	709	732	674	800	1680	1380	1650	2320	2230	1230
25	826	795	709	732	672	784	1680	1360	1640	2380	2270	1240
26	812	878	820	732	733	814	1760	1400	1800	2390	2330	1200
27	812	863	790	736	850	827	1660	1380	1880	2410	2300	1210
28	812	955	827	820	782	766	1570	1340	1870	2390	2310	1230
29	812	822	840	775	---	725	1640	1440	1870	2390	2280	1220
30	812	921	787	754	---	755	1590	1570	1870	2390	2360	1210
31	811	---	843	932	---	773	---	1510	---	2380	2230	---
TOTAL	29684	25342	25954	23058	22281	25418	39347	49120	46360	71260	74430	47200
MEAN	958	845	837	744	796	820	1312	1585	1545	2299	2401	1573
MAX	1180	955	920	932	888	963	1760	1910	1880	2410	2500	2240
MIN	811	743	709	643	672	725	755	1340	1340	1990	2230	1200
AC-FT	58880	50270	51480	45740	44190	50420	78040	97430	91960	141300	147600	93620

## 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	1195
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
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 - 2003, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1222	1111	1047	1021	1056	1103	1615	2635	2096	1938	1900	1514
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 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

<sup>b</sup> WATER YEARS 1923 - 2003

ANNUAL TOTAL	462026	479454
ANNUAL MEAN	1266	1314
HIGHEST ANNUAL MEAN		2361
LOWEST ANNUAL MEAN		996
HIGHEST DAILY MEAN	2460	2500
LOWEST DAILY MEAN	621	643
ANNUAL SEVEN-DAY MINIMUM	727	712
ANNUAL RUNOFF (AC-FT)	916400	951000
10 PERCENT EXCEEDS	1970	2340
50 PERCENT EXCEEDS	1030	994
90 PERCENT EXCEEDS	772	758

a Unregulated; summary statistics include April to September 1890.

b Regulated

HENRY'S FORK BASIN

13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY

LOCATION.--Lat 44°11'07", long 111°00'28", T.49 N., R.118 W., Teton County, Bechler Falls quad., Hydrologic Unit 17040203, Yellowstone National Park, on right bank 0.4 mi upstream from confluence with the Bechler River, 3.8 mi north of the Bechler Ranger Station, and 28.0 mi northeast of Ashton, Idaho.

DRAINAGE AREA.--86.9 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for May 15 to June 1 and estimated daily discharges, which are fair. No diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 810 ft<sup>3</sup>/s June 2, 1986; maximum gage height, 5.68 ft, May 11, 12, 1997, (backwater from Bechler River); minimum daily, 53 ft<sup>3</sup>/s Feb. 4-6, 13-18, 21-24, Mar. 5, Apr. 5, 1989; minimum discharge, 52 ft<sup>3</sup>/s Mar. 12, 1993, result of discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 284 ft<sup>3</sup>/s May 14; minimum daily, 55 ft<sup>3</sup>/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	70	68	65	65	69	59	67	161	259	86	69	66
2	70	67	65	64	66	59	69	154	255	84	68	66
3	70	67	65	64	63	e60	67	185	244	83	69	66
4	73	67	65	64	e60	60	66	216	233	82	72	66
5	81	67	65	65	e60	60	64	207	226	81	72	66
6	72	67	65	63	e60	60	64	167	223	80	69	68
7	70	67	65	63	e60	60	63	159	214	80	68	68
8	70	68	65	63	62	59	63	169	205	79	68	69
9	69	69	64	63	62	59	65	182	208	78	68	68
10	69	70	65	e60	63	59	71	199	210	77	67	71
11	70	69	66	e60	62	60	78	201	208	77	67	69
12	70	67	65	e60	61	62	86	209	210	76	67	67
13	69	67	65	64	62	67	98	249	213	75	67	67
14	69	67	66	65	e60	69	103	284	223	75	66	66
15	69	67	67	64	61	67	111	278	223	74	66	66
16	68	66	66	63	63	70	99	255	227	74	66	66
17	68	66	68	62	62	65	97	253	207	73	67	66
18	68	66	65	e60	61	63	99	232	167	73	67	66
19	68	66	65	e60	60	62	94	186	154	72	66	66
20	68	66	65	62	60	63	102	170	133	72	66	66
21	68	66	67	63	62	64	122	170	121	72	66	66
22	69	66	66	63	62	64	146	176	110	71	67	66
23	70	71	65	65	61	70	154	184	105	71	68	66
24	71	67	e63	62	e60	66	167	192	100	70	66	65
25	70	66	e60	62	e55	64	195	200	96	71	66	65
26	68	65	65	65	e60	67	201	201	94	71	66	65
27	68	65	68	69	60	64	164	211	92	70	67	65
28	68	65	69	66	59	62	152	223	91	70	67	65
29	69	65	68	63	---	62	146	237	89	69	66	65
30	69	66	67	66	---	62	153	254	87	69	67	65
31	69	---	67	68	---	65	---	259	---	69	66	---
TOTAL	2160	2066	2032	1966	1716	1953	3226	6423	5227	2324	2087	1992
MEAN	69.7	66.9	65.5	63.4	61.3	63.0	108	207	174	75.0	67.3	66.4
MAX	81	71	69	69	69	70	201	284	259	86	72	71
MIN	68	65	60	60	55	59	63	154	87	69	66	65
AC-FT	4280	3980	4030	3900	3400	3870	6400	12740	10370	4610	4140	3950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2003, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	80.9	80.4	76.7	72.7	69.3	70.5	123	270	229	102	83.4	80.2
MAX	120	108	101	100	88.5	91.3	215	460	566	179	139	129
(WY)	1998	1998	1996	1997	1998	1997	1990	1997	1986	1997	1997	1997
MIN	61.6	61.9	58.8	58.1	53.8	58.0	68.8	150	83.3	68.1	62.2	59.4
(WY)	1993	1993	1993	1993	1989	1993	1991	1990	1987	1988	1988	1988

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	FOR WATER YEARS 1984 - 2003
ANNUAL TOTAL	34221	33112			
ANNUAL MEAN	93.8	90.7			112
HIGHEST ANNUAL MEAN					169
LOWEST ANNUAL MEAN					82.7
HIGHEST DAILY MEAN	319	284	Jun 3	May 14	810
LOWEST DAILY MEAN	50	55	Feb 26	Feb 25	50
ANNUAL SEVEN-DAY MINIMUM	55	59	Feb 24	Feb 24	53
ANNUAL RUNOFF (AC-FT)	67880	65680			80860
10 PERCENT EXCEEDS	194	197			218
50 PERCENT EXCEEDS	68	67			81
90 PERCENT EXCEEDS	59	62			61

e Estimated

HENRY'S FORK BASIN

13046995 FALLS RIVER ABOVE YELLOWSTONE CANAL NEAR SQUIRREL, ID

LOCATION.--Lat 44°03'49", long 111°09'11", 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.

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 fair. 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, 3,920 ft<sup>3</sup>/s May 30, gage height, 8.41 ft; minimum daily, 330 ft<sup>3</sup>/s Feb. 24.

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	490	e500	433	415	488	e390	469	1270	3350	1050	664	528
2	491	e480	436	402	477	e420	498	1220	3130	1000	659	524
3	494	e460	432	403	e460	e420	482	1440	2840	924	663	532
4	512	e460	429	403	e430	e380	462	1650	2570	853	703	520
5	583	e450	428	410	e400	e420	435	1600	2410	782	705	520
6	536	e450	429	393	e370	e400	448	1360	2320	748	677	540
7	509	456	e400	e420	e350	378	423	1270	2150	729	665	554
8	501	484	e380	e420	e370	377	426	1300	2040	716	670	549
9	500	497	e370	e420	e370	373	459	1330	2090	745	675	549
10	514	507	e400	e400	e380	379	543	1360	2120	735	666	595
11	527	477	e460	e400	e410	383	637	1380	2210	729	669	567
12	513	489	429	406	e390	397	734	1430	2210	776	661	529
13	513	481	426	406	e390	429	887	1740	2170	771	633	513
14	511	474	428	411	418	486	946	2010	2160	764	546	498
15	508	467	441	e400	391	473	1040	2260	2110	758	539	493
16	506	459	428	e380	401	495	909	2340	2200	750	537	493
17	504	462	449	e370	433	464	868	2480	2160	748	536	497
18	505	457	420	e380	384	435	885	2330	2020	748	542	493
19	503	457	e400	e400	384	421	805	1860	1950	741	528	490
20	502	454	e380	e380	390	436	859	1730	1780	742	522	486
21	501	456	e420	e400	387	444	1020	1810	1650	733	514	481
22	511	459	e420	399	393	448	1220	2000	1460	718	533	478
23	529	500	e380	416	e380	499	1320	2310	1260	705	555	476
24	534	e460	e400	392	e330	467	1410	2620	1140	702	524	473
25	517	e430	e400	395	e360	448	1580	2840	1100	707	512	470
26	503	e400	e400	411	e380	482	1670	2840	1020	707	503	469
27	501	e420	e420	463	e400	426	1350	3070	1000	701	512	468
28	505	e430	e420	433	e420	419	1270	3170	1020	690	516	465
29	e500	e440	e400	417	---	418	1260	3470	987	678	505	464
30	e500	440	e400	439	---	418	1230	3650	968	671	551	463
31	e500	---	420	446	---	437	---	3560	---	666	544	---
TOTAL	15823	13856	12878	12630	11136	13262	26545	64700	57595	23487	18229	15177
MEAN	510	462	415	407	398	428	885	2087	1920	758	588	506
MAX	583	507	460	463	488	499	1670	3650	3350	1050	705	595
MIN	490	400	370	370	330	373	423	1220	968	666	503	463
AC-FT	31380	27480	25540	25050	22090	26310	52650	128300	114200	46590	36160	30100

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	586	543	471	444	411	427	822	2329	2272	1111	724	622
MAX	809	726	573	613	508	530	1094	3715	3982	1884	1252	1025
(WY)	1998	1997	1996	1997	1998	1998	2000	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL TOTAL	268310		285318			
ANNUAL MEAN	735		782		919	
HIGHEST ANNUAL MEAN					1373	
LOWEST ANNUAL MEAN					598	
HIGHEST DAILY MEAN	3880		3650		5390	
LOWEST DAILY MEAN	260		330		260	
ANNUAL SEVEN-DAY MINIMUM	286		374		286	
ANNUAL RUNOFF (AC-FT)	532200		565900		665600	
10 PERCENT EXCEEDS	1770		1790		2120	
50 PERCENT EXCEEDS	508		500		580	
90 PERCENT EXCEEDS	300		398		374	

e Estimated

## HENRYS FORK BASIN

## 13047500 FALLS RIVER NEAR SQUIRREL, ID

LOCATION.--Lat 44°04'07", long 111°14'29", 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.--326 mi<sup>2</sup>. 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 good except for estimated daily discharges, which are 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, 2,950 ft<sup>3</sup>/s May 30, gage height, 3.54 ft; minimum daily, 200 ft<sup>3</sup>/s Feb. 24.

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	215	e270	270	266	230	e210	219	595	2450	304	218	218
2	216	e270	271	265	231	e210	217	554	2240	290	218	219
3	216	e270	267	267	e230	e220	215	732	1940	281	216	220
4	215	e270	264	269	e230	e220	215	927	1640	522	212	248
5	252	e280	266	267	e230	e220	216	905	1460	509	210	252
6	225	e280	268	267	e220	219	216	687	1360	497	211	268
7	219	280	266	266	e210	219	215	608	1220	293	217	264
8	220	283	e260	e260	e220	218	216	632	1110	281	212	237
9	219	276	e260	e260	e220	218	219	657	1140	284	212	236
10	218	269	e260	e260	e230	218	227	693	1160	270	216	239
11	221	269	e260	260	e230	219	222	709	1240	231	216	234
12	222	271	264	261	e220	221	222	743	1240	260	213	252
13	225	269	265	260	227	222	273	997	1190	258	212	255
14	227	269	265	258	227	222	316	1250	1180	259	213	242
15	226	269	262	249	228	219	411	1480	1140	251	222	235
16	226	266	260	244	230	219	279	1540	1230	240	218	239
17	227	263	261	e240	226	217	236	1700	1220	239	213	240
18	226	264	258	e240	224	218	254	1560	1090	231	210	230
19	226	264	259	e240	229	341	214	1120	1040	226	210	227
20	226	263	e260	239	220	425	226	1060	886	226	208	229
21	441	265	261	239	217	397	368	1240	769	225	209	230
22	477	266	260	238	217	222	557	1480	589	226	210	229
23	508	268	e240	234	e210	223	648	1590	419	232	209	231
24	324	264	e250	236	e200	214	723	1870	296	239	208	231
25	271	e260	e250	234	e210	216	875	2110	270	256	213	232
26	272	e270	e250	236	e210	217	958	2080	269	239	210	233
27	271	270	e260	e230	e220	214	665	2280	276	218	214	233
28	274	268	e260	233	e220	216	604	2380	279	217	224	231
29	274	269	e250	234	---	216	588	2600	278	217	224	227
30	277	270	e260	232	---	217	560	2740	281	217	223	233
31	276	---	e260	233	---	218	---	2650	---	218	220	---
TOTAL	8132	8085	8067	7717	6216	7265	11374	42169	30902	8456	6641	7094
MEAN	262	270	260	249	222	234	379	1360	1030	273	214	236
MAX	508	283	271	269	231	425	958	2740	2450	522	224	268
MIN	215	260	240	230	200	210	214	554	269	217	208	218
AC-FT	16130	16040	16000	15310	12330	14410	22560	83640	61290	16770	13170	14070

## 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	474	457	412	372	380	395	664	1760	2085	910	551	498
MAX	737	912	579	537	565	590	1120	3038	3786	2322	867	791
(WY)	1928	1928	1928	1928	1928	1928	1926	1928	1927	1927	1927	1927
MIN	259	276	283	219	287	293	418	1086	589	298	326	315
(WY)	1932	1932	1932	1932	1932	1932	1937	1934	1934	1931	1931	1931

## 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 - 2003, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	244	250	235	239	236	236	410	1751	1639	540	266	245
MAX	286	284	260	269	258	261	617	3043	3186	1049	539	372
(WY)	1997	2000	2003	1996	2002	2002	1997	1997	1997	1997	1997	1997
MIN	223	225	220	218	220	206	311	1191	280	231	210	219
(WY)	1999	1996	1997	1994	1994	1996	1998	2001	2001	2001	2001	2001

## SUMMARY STATISTICS

## FOR 2002 CALENDAR YEAR

## FOR 2003 WATER YEAR

<sup>b</sup> WATER YEARS 1994 - 2003

ANNUAL TOTAL	159589	152118
ANNUAL MEAN	437	417
HIGHEST ANNUAL MEAN		525
LOWEST ANNUAL MEAN		861
HIGHEST DAILY MEAN	3230	Jun 3
LOWEST DAILY MEAN	200	Jan 1
ANNUAL SEVEN-DAY MINIMUM	216	Sep 28
ANNUAL RUNOFF (AC-FT)	316500	301700
10 PERCENT EXCEEDS	1130	1050
50 PERCENT EXCEEDS	253	250
90 PERCENT EXCEEDS	220	216

a Unregulated  
b Regulated  
e Estimated



## HENRYS FORK BASIN

13047600 FALLS RIVER NEAR ASHTON, ID

LOCATION.--Lat 44°03'22", long 111°21'31", 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.

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, 3,450 ft<sup>3</sup>/s May 30, gage height, 7.45 ft; minimum daily, 340 ft<sup>3</sup>/s Feb. 24.

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	442	e470	462	e440	517	e420	480	1140	2940	742	513	528
2	473	e480	464	e430	511	e430	508	1070	2740	708	514	531
3	478	e480	459	e420	e460	e430	497	1240	2450	642	521	539
4	496	e490	456	e430	e440	e420	479	1460	2160	582	552	530
5	548	e500	455	e440	e420	e430	453	1450	1990	535	559	527
6	522	e500	453	e420	e380	417	468	1220	1890	513	537	537
7	488	505	e430	e410	e360	413	443	1140	1730	504	520	559
8	480	515	e420	e410	e380	421	444	1160	1600	485	518	550
9	475	517	e400	e420	e400	412	469	1180	1620	490	533	550
10	471	523	e440	e430	e420	412	535	1220	1650	474	535	575
11	477	495	e460	e440	e430	413	608	1240	1730	444	534	580
12	471	502	459	e440	e420	426	678	1270	1730	478	517	539
13	465	501	455	e440	e430	455	806	1520	1680	475	506	520
14	481	491	450	e440	e440	509	851	1800	1670	476	432	497
15	491	483	462	e430	e430	498	942	2050	1630	463	429	477
16	490	477	450	e410	e440	517	835	2090	1730	454	429	422
17	488	481	469	e380	e440	501	790	2270	1720	449	430	424
18	486	467	444	e420	e420	468	816	2140	1570	451	438	422
19	483	477	e430	e420	e420	472	737	1690	1510	442	427	418
20	481	472	e420	e410	419	456	769	1550	1350	440	422	413
21	538	473	e440	e420	428	443	891	1620	1240	440	419	408
22	489	477	e440	421	432	427	1080	1800	1060	437	440	406
23	506	510	e410	438	e400	506	1170	2090	900	440	473	404
24	449	495	e430	419	e340	488	1230	2390	794	455	452	406
25	498	e420	e420	432	e380	467	1390	2630	758	473	434	408
26	484	e420	e420	445	e400	500	1490	2600	723	517	421	407
27	482	e430	e430	488	e420	453	1210	2790	695	513	424	406
28	486	e440	e430	476	e440	440	1150	2880	698	509	440	407
29	e480	e450	e420	453	---	440	1140	3110	685	508	427	406
30	e480	e460	e430	477	---	438	1100	3220	666	508	499	411
31	e480	---	e440	477	---	454	---	3120	---	510	531	---
TOTAL	15058	14401	13648	13426	11817	13976	24459	58150	45309	15557	14826	14207
MEAN	486	480	440	433	422	451	815	1876	1510	502	478	474
MAX	548	523	469	488	517	517	1490	3220	2940	742	559	580
MIN	442	420	400	380	340	412	443	1070	666	437	419	404
AC-FT	29870	28560	27070	26630	23440	27720	48510	115300	89870	30860	29410	28180

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

MEAN	553	550	497	478	456	474	823	2233	2096	863	590	549
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 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1994 - 2003
ANNUAL TOTAL	244862	254834	
ANNUAL MEAN	671	698	871
HIGHEST ANNUAL MEAN			1370
LOWEST ANNUAL MEAN			554
HIGHEST DAILY MEAN	3500	3220	5250
LOWEST DAILY MEAN	280	340	194
ANNUAL SEVEN-DAY MINIMUM	306	399	208
ANNUAL RUNOFF (AC-FT)	485700	505500	630700
10 PERCENT EXCEEDS	1590	1530	2000
50 PERCENT EXCEEDS	462	477	567
90 PERCENT EXCEEDS	338	420	391

e Estimated

HENRYS FORK BASIN

13049500 FALLS RIVER NEAR CHESTER, ID

LOCATION.--Lat 44°01'06", long 111°34'00", in NW¼SE¼ 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, 3,420 ft<sup>3</sup>/s May 30, gage height, 5.02 ft; minimum, 76 ft<sup>3</sup>/s July 5, 6, gage height, 1.36 ft, result of upstream regulation; minimum daily, 121 ft<sup>3</sup>/s July 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	368	e410	e420	e400	495	e380	464	1080	2840	379	341	402
2	383	e400	420	e380	498	e400	503	1010	2620	384	301	405
3	367	e400	416	e380	e440	e420	498	1150	2330	321	333	392
4	381	e400	413	e380	e420	e360	480	1450	2010	226	370	371
5	412	e420	413	e400	e380	e380	451	1480	1780	185	395	381
6	416	e440	411	e380	e360	e360	459	1250	1650	169	384	410
7	373	e460	e395	e380	e340	e360	442	1140	1500	157	361	475
8	361	485	e380	e400	e360	e380	436	1140	1360	130	342	466
9	376	478	e360	e400	e360	397	451	1140	1380	130	351	477
10	393	485	e380	e400	e370	420	513	1190	1400	145	355	498
11	392	458	e400	e420	e380	443	601	1210	1450	162	355	519
12	398	456	e420	e420	e360	486	677	1240	1450	121	337	469
13	393	458	441	e420	e380	484	822	1450	1390	128	339	452
14	400	446	432	e420	e400	521	879	1770	1380	129	285	426
15	409	437	440	e400	e380	501	994	2040	1310	122	279	417
16	411	427	433	e380	e400	513	896	2100	1390	128	288	352
17	401	438	447	e360	e420	496	817	2280	1400	151	281	357
18	386	420	431	e380	e360	472	827	2170	1240	159	288	356
19	381	433	420	e420	e380	467	734	1760	1150	213	273	354
20	381	429	e400	e400	399	456	746	1540	1010	212	267	337
21	432	427	e420	e420	400	457	854	1570	894	213	264	317
22	389	428	e400	e410	401	411	1040	1720	721	215	276	295
23	409	459	e360	e420	e380	491	1140	2010	574	206	335	283
24	362	459	e380	406	e320	498	1230	2320	475	221	326	259
25	418	e400	e380	405	e340	455	1400	2550	436	236	311	270
26	411	e380	e380	414	e360	484	1520	2570	401	274	292	266
27	407	e390	e400	e450	e380	460	1200	2720	362	288	280	270
28	409	e400	e400	e460	e400	423	1100	2800	357	296	287	280
29	e410	e410	e360	439	---	421	1090	2930	344	305	272	289
30	e410	e420	e380	450	---	418	1050	3130	328	311	333	316
31	e410	---	e380	451	---	430	---	3040	---	331	396	---
TOTAL	12249	12953	12512	12645	10863	13644	24314	56950	36932	6647	9897	11161
MEAN	395	432	404	408	388	440	810	1837	1231	214	319	372
MAX	432	485	447	460	498	521	1520	3130	2840	384	396	519
MIN	361	380	360	360	320	360	436	1010	328	121	264	259
AC-FT	24300	25690	24820	25080	21550	27060	48230	113000	73250	13180	19630	22140

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

MEAN	460	538	515	480	466	483	840	1998	1813	461	241	318
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	352	357	365	431	597	255	27.8	28.5	57.3
(WY)	1935	1964	1988	1962	1978	1988	1967	1934	1934	1960	1933	1960

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR			FOR 2003 WATER YEAR			WATER YEARS 1920 - 2003		
ANNUAL TOTAL	224712			220767					
ANNUAL MEAN	616			605			770		
HIGHEST ANNUAL MEAN							1279		
LOWEST ANNUAL MEAN							474		
HIGHEST DAILY MEAN	3480			Jun 3			3130		
LOWEST DAILY MEAN	106			Jul 15			121		
ANNUAL SEVEN-DAY MINIMUM	121			Jul 10			134		
ANNUAL RUNOFF (AC-FT)	445700						437900		
10 PERCENT EXCEEDS	1400						1380		
50 PERCENT EXCEEDS	410						410		
90 PERCENT EXCEEDS	317						282		
							557900		
							1900		
							495		
							240		

e Estimated

HENRYS FORK BASIN

13050500 HENRYS FORK AT ST. ANTHONY, ID

LOCATION.--Lat 43°58'01", long 111°40'21", in NW<sup>1</sup>/<sub>4</sub> 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 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, 3,430 ft<sup>3</sup>/s May 17, gage height, 4.72 ft; minimum, 632 ft<sup>3</sup>/s July 10, gage height, 3.02 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	1260	1180	1310	1220	1260	1160	1040	1940	2310	1100	1790	1770
2	1200	1150	1300	1230	1340	1140	1050	1860	2150	1560	1730	1800
3	1070	1170	1260	1220	1220	1130	1030	1970	1910	1440	1790	1640
4	1230	1150	1240	1210	1170	1200	986	2480	1660	1270	1910	1520
5	1170	1270	1240	1210	1130	1130	901	2680	1480	1140	1970	1600
6	1210	1260	1230	1180	1090	1140	884	2390	1360	1060	1960	1660
7	1170	1270	1220	1140	1040	1180	862	2170	1250	996	1870	1700
8	1130	1280	1190	1060	1250	1140	775	2190	1130	947	1880	1720
9	1080	1350	1160	1210	1190	1150	822	2110	1170	908	1860	1710
10	1080	1360	1160	1090	1260	1170	1090	2120	1190	817	1830	1580
11	1060	1300	1190	1170	1300	1260	1270	2150	1210	818	1770	1520
12	1060	1260	1220	1280	1200	1310	1380	2140	1260	839	1740	1410
13	1050	1250	1220	1280	1220	1400	1640	2300	1140	950	1780	1460
14	1050	1250	1220	1250	1340	1530	1650	2600	1010	976	1730	1350
15	1060	1240	1230	1250	1270	1440	1880	2830	981	988	1740	1380
16	1060	1230	1170	1210	1250	1420	1710	2900	1060	987	1850	1350
17	1070	1240	1190	1130	1220	1390	1580	3100	1040	996	1910	1370
18	1050	1220	1290	1110	1200	1310	1670	2920	973	1010	1930	1270
19	1100	1260	1110	1130	1190	1240	1620	2430	1050	1230	1880	1150
20	1130	1260	1220	1290	1150	1240	1580	2130	1200	1230	1840	1060
21	1170	1260	1160	1160	1150	1240	1660	2050	1250	1320	1750	1030
22	1160	1270	1200	1220	1190	1180	1990	2130	1140	1350	1750	982
23	1170	1350	e1150	1230	e1150	1320	2090	2310	990	1290	1820	958
24	1080	1370	e1000	1200	e900	1320	2140	2490	952	1300	1650	950
25	1110	1190	e1100	1190	e950	1240	2270	2560	931	1410	1690	944
26	1090	1220	e1200	1200	1070	1270	2480	2640	988	1540	1720	914
27	1090	1280	e1300	1240	1240	1280	2180	2770	1050	1610	1670	926
28	1090	1370	1290	1370	1170	1190	1960	2770	1070	1630	1710	962
29	1100	1300	1300	1240	---	1130	2010	2700	1090	1690	1710	939
30	1110	1310	1240	1230	---	1150	1940	2720	970	1690	1790	998
31	1160	---	1270	1300	---	1160	---	2500	---	1730	1800	---
TOTAL	34620	37870	37580	37450	33110	38560	46140	75050	36965	37822	55820	39623
MEAN	1117	1262	1212	1208	1182	1244	1538	2421	1232	1220	1801	1321
MAX	1260	1370	1310	1370	1340	1530	2480	3100	2310	1730	1970	1800
MIN	1050	1150	1000	1060	900	1130	775	1860	931	817	1650	914
AC-FT	68670	75120	74540	74280	65670	76480	91520	148900	73320	75020	110700	78590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2003, BY WATER YEAR (WY)

MEAN	1367	1587	1583	1588	1603	1545	2099	3713	2886	1355	1263	1280
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1919 - 2003	
ANNUAL TOTAL	571597		510610			
ANNUAL MEAN	1566		1399		1961	
HIGHEST ANNUAL MEAN					3146	
LOWEST ANNUAL MEAN					1311	
HIGHEST DAILY MEAN	4840		3100		12500	
LOWEST DAILY MEAN	921		775		308	
ANNUAL SEVEN-DAY MINIMUM	979		894		371	
ANNUAL RUNOFF (AC-FT)	1134000		1013000		1421000	
10 PERCENT EXCEEDS	2670		2000		3530	
50 PERCENT EXCEEDS	1300		1240		1590	
90 PERCENT EXCEEDS	1100		1010		1020	

e Estimated

HENRY'S FORK BASIN

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

LOCATION.--Lat 43°46'54", long 111°12'30", in NW¼NE¼ 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 daily discharge, 1,530 ft<sup>3</sup>/s June 1; minimum daily, 60 ft<sup>3</sup>/s Jan. 10.

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	257	181	e120	e110	e360	e200	207	248	1530	425	234	213
2	301	e165	e120	e110	e280	e190	207	234	1300	431	231	211
3	269	e150	e120	e120	e240	e200	200	251	1080	390	232	209
4	266	e155	e120	e120	e220	e190	199	302	832	349	237	208
5	249	e155	e120	e120	e200	e170	194	284	674	331	234	208
6	228	e160	e120	e90	e190	e140	190	282	609	314	231	210
7	221	156	e120	e80	e180	e170	186	251	562	317	226	212
8	213	174	e110	e80	e170	e190	182	237	508	309	222	210
9	211	210	e110	e70	e180	e200	180	225	534	290	222	211
10	207	189	e110	e60	e190	201	179	219	621	282	222	217
11	199	169	e120	e70	e180	251	182	216	763	278	222	220
12	183	161	e120	e70	e170	321	191	228	748	273	224	215
13	184	169	e120	e90	e170	371	199	253	678	269	220	213
14	185	175	e120	e100	e190	394	205	243	651	261	218	211
15	182	163	e120	e90	e200	291	232	247	620	265	219	210
16	182	157	e110	e80	e190	292	237	263	742	263	220	210
17	183	158	e110	e80	e180	272	212	281	788	261	220	208
18	182	155	e110	e70	e170	230	214	299	781	260	220	209
19	179	153	e110	e70	e180	209	216	293	842	258	217	208
20	178	156	e110	e80	e180	217	201	270	829	260	215	206
21	178	172	e120	e90	e180	215	200	262	866	257	212	205
22	182	176	e110	e90	e180	212	208	272	690	253	213	203
23	215	193	e100	e100	e180	252	239	299	539	250	218	202
24	255	e180	e90	e90	e170	250	240	356	468	248	216	200
25	246	e160	e80	e100	e160	215	239	556	410	249	213	200
26	208	e150	e90	e110	e190	303	258	799	354	251	211	199
27	189	e160	e110	e140	e200	320	268	967	331	256	210	199
28	186	e170	e130	e280	e200	257	267	1070	333	251	211	199
29	192	e150	e120	e220	---	221	275	1150	350	244	209	199
30	192	e130	e110	e180	---	209	257	1320	376	240	218	198
31	193	---	e120	e240	---	206	---	1520	---	238	216	---
TOTAL	6495	4952	3500	3400	5480	7359	6464	13697	20409	8823	6833	6223
MEAN	210	165	113	110	196	237	215	442	680	285	220	207
MAX	301	210	130	280	360	394	275	1520	1530	431	237	220
MIN	178	130	80	60	160	140	179	216	331	238	209	198
AC-FT	12880	9820	6940	6740	10870	14600	12820	27170	40480	17500	13550	12340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
MEAN	306	276	224	202	212	268	354	523	922	728	402	331
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 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	98851	93635	93635	93635	93635	93635	93635	93635	93635	93635	93635	93635
ANNUAL MEAN	271	257	257	257	257	257	257	257	257	257	257	257
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	1260	Jun 2	1530	Jun 1	2960	Jun 11	1997	2960	Jun 11	1997	2960	Jun 11
LOWEST DAILY MEAN	80	Dec 25	60	Jan 10	60	Jan 10	2003	60	Jan 10	2003	60	Jan 10
ANNUAL SEVEN-DAY MINIMUM	99	Jan 25	74	Jan 6	74	Jan 6	2003	74	Jan 6	2003	74	Jan 6
ANNUAL RUNOFF (AC-FT)	196100	185700	185700	185700	185700	185700	185700	185700	185700	185700	185700	185700
10 PERCENT EXCEEDS	500	382	382	382	382	382	382	382	382	382	382	382
50 PERCENT EXCEEDS	210	210	210	210	210	210	210	210	210	210	210	210
90 PERCENT EXCEEDS	110	110	110	110	110	110	110	110	110	110	110	110

e Estimated

## HENRYS FORK BASIN

## 13055000 TETON RIVER NEAR ST. ANTHONY, ID

LOCATION.--Lat 43°55'38", long 111°36'55", 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.

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.

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, 3,490 ft<sup>3</sup>/s May 30, gage height, 5.14 ft; minimum, 213 ft<sup>3</sup>/s Mar. 8, gage height, 1.41 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	398	393	366	371	982	334	394	765	3260	968	527	533
2	398	392	367	342	744	323	404	724	2950	910	522	530
3	408	373	361	344	555	332	392	707	2540	861	532	495
4	402	368	361	350	449	331	380	805	2130	851	551	488
5	401	392	361	354	394	325	376	905	1850	826	584	494
6	394	392	361	345	365	321	369	898	1670	805	562	520
7	385	395	361	323	e340	268	364	818	1560	793	544	530
8	377	414	343	e290	e320	294	355	748	1480	847	538	544
9	375	425	318	e280	344	363	351	700	1430	866	525	540
10	368	436	319	e300	357	383	372	703	1510	903	542	561
11	371	417	355	337	351	435	392	721	1670	845	575	581
12	371	405	365	361	336	494	397	747	1730	837	549	567
13	367	405	363	355	335	534	460	813	1590	820	558	554
14	363	407	364	349	409	590	500	1040	1490	807	564	550
15	364	406	367	364	433	537	622	1230	1390	792	574	547
16	375	395	371	352	424	483	670	1440	1500	783	560	525
17	379	392	368	334	387	474	591	1660	1600	775	566	516
18	380	392	364	330	354	443	548	1620	1560	755	567	518
19	378	388	353	322	359	411	528	1390	1610	717	564	507
20	376	386	325	335	349	394	488	1140	1640	714	533	494
21	374	394	337	347	345	401	480	1090	1580	708	537	486
22	368	396	382	353	349	399	550	1160	1460	656	585	481
23	378	401	353	344	341	404	704	1450	1230	648	630	480
24	389	411	e300	344	e320	444	820	1840	1060	639	625	465
25	401	390	e280	354	277	428	873	2150	969	585	550	461
26	393	332	e320	358	331	413	979	2470	851	555	448	451
27	375	345	350	439	337	503	971	2710	780	578	423	448
28	367	393	359	800	336	476	844	2860	802	591	396	452
29	374	373	367	598	---	431	841	3010	881	574	399	459
30	386	374	358	479	---	404	799	3310	910	555	417	462
31	398	---	323	713	---	393	---	3400	---	546	491	---
TOTAL	11833	11782	10842	11867	11223	12765	16814	45024	46683	23110	16538	15239
MEAN	382	393	350	383	401	412	560	1452	1556	745	533	508
MAX	408	436	382	800	982	590	979	3400	3260	968	630	581
MIN	363	332	280	280	277	268	351	700	780	546	396	448
AC-FT	23470	23370	21510	23540	22260	25320	33350	89310	92600	45840	32800	30230

HENRYS FORK BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2003, BY WATER YEAR (WY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	551	494	426	388	403	478	753	1626	2119	1245	755	622
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 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1891 - 2003
ANNUAL TOTAL	221513	233720	
ANNUAL MEAN	607	640	832
HIGHEST ANNUAL MEAN			1405
LOWEST ANNUAL MEAN			411
HIGHEST DAILY MEAN	3340	Jun 3	3400
LOWEST DAILY MEAN	260	Jan 30	268
ANNUAL SEVEN-DAY MINIMUM	283	Jan 14	313
ANNUAL RUNOFF (AC-FT)	439400		463600
10 PERCENT EXCEEDS	1250		1230
50 PERCENT EXCEEDS	404		448
90 PERCENT EXCEEDS	317		342
			6970
			199
			246
			602700
			1690
			573
			354

e Estimated

## HENRYS FORK BASIN

## 13055198 NORTH FORK TETON RIVER AT TETON, ID

LOCATION.--Lat 43°53'53", long 111°40'37", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.31, T.7 N., R.41 E., Fremont County, Saint Anthony quad.

Hydrologic Unit 17040204, on left bank 60 ft upstream from county road bridge, 0.4 mi downstream from point of diversion, 0.5 mi north of Teton, and at mile 16.2.

PERIOD OF RECORD.--October to November 1908, October 1977 to October 2003 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Flow partially regulated by headworks 0.4 mi upstream. Diversions from tributaries above station for irrigation in Wyoming and Idaho.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,590 ft<sup>3</sup>/s May 22, 1993, gage height, 12.64 ft; maximum gage height, 13.63 ft, Feb. 10, 1981, result of ice jam; minimum, 0.90 ft<sup>3</sup>/s Jan. 5, 1981, gage height, 6.13 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 2002 to October 2003, 1,550 ft<sup>3</sup>/s May 31, gage height, 10.88 ft; minimum daily, 60 ft<sup>3</sup>/s Feb. 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	146	e120	121	117	309	e80	120	334	1410	530	238	173
2	147	e120	119	110	241	102	120	309	1280	502	235	175
3	152	e120	119	108	184	103	115	300	1130	467	239	181
4	151	e110	119	110	144	104	115	337	970	476	251	185
5	153	e130	119	111	e120	102	116	387	850	436	267	186
6	150	e130	119	110	e90	103	114	387	783	385	260	204
7	146	e140	119	e100	e70	83	114	363	738	379	257	213
8	141	e150	115	e90	e60	87	110	331	750	420	252	220
9	138	e160	107	e80	e80	108	114	306	711	440	241	212
10	135	147	100	e100	e90	114	149	309	730	461	248	187
11	135	140	110	e90	e80	124	156	323	808	442	258	192
12	136	135	122	e110	e70	140	144	336	846	419	239	192
13	133	135	117	112	e80	163	169	358	793	413	242	192
14	131	136	113	110	122	186	266	430	757	415	242	199
15	130	136	115	112	140	175	376	490	711	406	253	195
16	136	133	117	112	134	155	402	557	746	398	243	190
17	138	132	114	e100	126	151	376	629	788	389	250	184
18	131	132	114	e90	110	141	355	623	766	376	257	189
19	120	130	112	e90	e100	129	345	548	780	342	265	184
20	119	129	104	e100	e100	122	322	459	790	340	248	178
21	118	132	e100	106	108	123	309	488	778	343	246	175
22	115	131	e120	112	e110	123	288	546	722	310	274	171
23	119	132	e110	109	e110	123	319	661	648	320	305	170
24	127	135	e100	106	e90	135	375	799	570	335	307	167
25	134	131	e90	110	e80	135	397	922	523	295	268	150
26	130	113	e110	111	e90	133	440	1040	461	266	203	131
27	120	107	e120	129	e100	157	437	1120	429	278	189	132
28	117	128	e120	250	e90	156	389	1190	463	291	142	134
29	119	125	116	194	---	140	382	1210	497	268	123	137
30	123	123	e110	154	---	129	356	1390	514	257	128	135
31	e120	---	102	211	---	120	---	1480	---	250	163	---
TOTAL	4110	3922	3493	3654	3228	3946	7790	18962	22742	11649	7333	5333
MEAN	133	131	113	118	115	127	260	612	758	376	237	178
MAX	153	160	122	250	309	186	440	1480	1410	530	307	220
MIN	115	107	90	80	60	80	110	300	429	250	123	131
AC-FT	8150	7780	6930	7250	6400	7830	15450	37610	45110	23110	14550	10580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

	2002	2003	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	210	167	115	104	107	148	266	718	871	520	322	260																																																																																					
MAX	440	424	282	213	156	284	440	1286	1681	928	471	385																																																																																					
(WY)	1984	1984	1994	1997	1998	1995	1986	1993	1997	1995	1993	1996																																																																																					
MIN	92.3	23.7	14.8	15.6	19.2	69.1	119	288	385	281	163	119																																																																																					
(WY)	2002	1989	1989	1989	1989	1980	1981	1977	1977	1977	2002	2001																																																																																					

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1909 - 2003
ANNUAL TOTAL	85463	96162	
ANNUAL MEAN	234	263	322
HIGHEST ANNUAL MEAN			498
LOWEST ANNUAL MEAN			216
HIGHEST DAILY MEAN	1400	Jun 3	1480
LOWEST DAILY MEAN	80	Feb 26	60
ANNUAL SEVEN-DAY MINIMUM	93	Feb 24	76
ANNUAL RUNOFF (AC-FT)	169500		190700
10 PERCENT EXCEEDS	577		552
50 PERCENT EXCEEDS	147		150
90 PERCENT EXCEEDS	110		104

DISCHARGE, CUBIC FEET PER SECOND, OCTOBER 2003  
DAILY MEAN VALUES

DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT
1	159	6	167	11	154	16	142	21	143	26	143
2	164	7	151	12	152	17	140	22	139	27	146
3	169	8	154	13	150	18	139	23	140	28	156
4	170	9	153	14	147	19	142	24	141	29	166
5	169	10	151	15	143	20	142	25	141	30	176
TOTAL	4725									31	176
MEAN	152										
MAX	176										
MIN	139										
AC-FT	9370										

e Estimated

HENRY'S FORK BASIN

13055250 NORTH FORK TETON RIVER NEAR SUGAR CITY, ID

LOCATION.--Lat 43°53'14", long 111°45'29", 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.--June to September 2003.

GAGE.--Water-stage recorder. Elevation of gage is 4,887 ft above NGVD of 1929, from topographic map. Prior to June 2003, at a site approximately 4 mi upstream (sta 13055198) at different datum. Records are not comparable.

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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 CURRENT YEAR.--Maximum daily discharge during period June to September 2003, 710 ft<sup>3</sup>/s June 1; minimum daily, 11 ft<sup>3</sup>/s Aug. 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	---	---	---	---	---	---	---	---	e710	110	e90	36
2	---	---	---	---	---	---	---	---	e690	119	e90	37
3	---	---	---	---	---	---	---	---	e540	89	e90	e70
4	---	---	---	---	---	---	---	---	e410	73	e100	e100
5	---	---	---	---	---	---	---	---	375	e60	e120	e100
6	---	---	---	---	---	---	---	---	345	e50	e110	e120
7	---	---	---	---	---	---	---	---	326	e60	e110	e140
8	---	---	---	---	---	---	---	---	301	e100	e100	e170
9	---	---	---	---	---	---	---	---	231	e130	e90	e160
10	---	---	---	---	---	---	---	---	208	e170	e100	132
11	---	---	---	---	---	---	---	---	226	e150	e110	137
12	---	---	---	---	---	---	---	---	e260	e120	e90	134
13	---	---	---	---	---	---	---	---	e260	e120	e90	131
14	---	---	---	---	---	---	---	---	221	e120	e90	137
15	---	---	---	---	---	---	---	---	208	e100	e100	138
16	---	---	---	---	---	---	---	---	223	e90	e90	129
17	---	---	---	---	---	---	---	---	251	e80	e100	116
18	---	---	---	---	---	---	---	---	e280	e70	e110	112
19	---	---	---	---	---	---	---	---	e320	e40	e120	108
20	---	---	---	---	---	---	---	---	e350	e40	e160	102
21	---	---	---	---	---	---	---	---	e340	e40	e170	98
22	---	---	---	---	---	---	---	---	e310	18	e180	94
23	---	---	---	---	---	---	---	---	e260	80	e190	90
24	---	---	---	---	---	---	---	---	211	e140	e190	88
25	---	---	---	---	---	---	---	---	178	119	e170	77
26	---	---	---	---	---	---	---	---	146	e100	e120	59
27	---	---	---	---	---	---	---	---	105	e110	e90	61
28	---	---	---	---	---	---	---	---	84	e120	e70	58
29	---	---	---	---	---	---	---	---	e80	e110	23	62
30	---	---	---	---	---	---	---	---	89	e100	11	59
31	---	---	---	---	---	---	---	---	---	e90	26	---
TOTAL	---	---	---	---	---	---	---	---	8538	2918	3300	3055
MEAN	---	---	---	---	---	---	---	---	285	94.1	106	102
MAX	---	---	---	---	---	---	---	---	710	170	190	170
MIN	---	---	---	---	---	---	---	---	80	18	11	36
AC-FT	---	---	---	---	---	---	---	---	16940	5790	6550	6060

e Estimated



HENRY'S FORK BASIN

13055340 SOUTH FORK TETON RIVER AT REXBURG, ID

LOCATION.--Lat 43°50'07", long 111°46'38", SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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.

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 daily discharge, 1,830 ft<sup>3</sup>/s June 1; no flow on many days.

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	48	e55	147	e150	507	e140	139	146	1830	18	38	11
2	47	e55	143	e150	389	143	145	129	1650	9.6	13	0.00
3	51	e55	146	e150	273	143	140	118	1210	0.00	27	0.00
4	51	e45	144	e150	193	148	139	140	760	0.00	28	0.00
5	54	e65	144	e144	171	144	141	203	482	0.00	41	0.00
6	52	e70	144	e140	e150	155	134	221	357	13	60	0.00
7	48	e75	143	e140	e130	129	136	189	275	18	62	0.00
8	44	e95	140	e130	e120	120	127	148	251	41	65	0.00
9	39	e120	127	e120	e130	151	121	124	214	50	54	11
10	36	171	120	e130	e140	171	99	112	189	8.3	54	47
11	41	164	127	e150	e130	166	108	116	278	20	54	62
12	45	156	152	155	e110	194	98	126	367	0.00	31	70
13	44	155	143	159	e100	215	113	136	336	15	0.00	74
14	44	155	140	155	e140	255	105	208	299	30	0.00	88
15	38	157	140	149	180	263	78	314	278	23	0.22	91
16	48	154	143	153	172	223	118	443	274	1.6	0.00	81
17	52	152	145	e150	175	213	99	631	329	2.4	0.00	77
18	52	151	141	e140	152	201	39	682	303	15	0.00	87
19	44	159	e140	e140	148	180	6.5	566	293	14	0.00	86
20	38	158	e140	e140	147	168	0.00	323	344	0.04	7.9	79
21	36	156	e130	146	143	167	0.00	216	356	14	19	77
22	35	158	e160	157	e145	165	0.00	177	341	3.9	47	78
23	42	160	e160	154	e140	163	75	222	231	0.00	56	71
24	51	162	e150	149	e130	177	147	358	199	0.07	62	68
25	57	160	e140	155	e120	183	181	612	170	6.1	56	57
26	57	142	e150	158	e150	168	244	848	e85	16	15	41
27	51	124	e160	180	e150	188	273	1100	e60	1.8	0.00	24
28	49	148	e170	371	e145	209	214	1230	16	17	0.00	11
29	50	156	e160	296	---	176	190	1240	24	36	0.00	22
30	e55	151	e160	218	---	160	171	1470	39	37	0.00	28
31	e55	---	e150	266	---	147	---	1770	---	32	13	---
TOTAL	1454	3884	4499	5145	4780	5425	3580.50	14318	11840	442.81	803.12	1341.00
MEAN	46.9	129	145	166	171	175	119	462	395	14.3	25.9	44.7
MAX	57	171	170	371	507	263	273	1770	1830	50	65	91
MIN	35	45	120	120	100	120	0.00	112	16	0.00	0.00	0.00
AC-FT	2880	7700	8920	10210	9480	10760	7100	28400	23480	878	1590	2660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

MEAN	107	154	168	161	163	229	292	683	812	226	75.1	59.7
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003	
ANNUAL TOTAL	49681.03		57512.43			
ANNUAL MEAN	136		158		261	
HIGHEST ANNUAL MEAN					620	
LOWEST ANNUAL MEAN					103	
HIGHEST DAILY MEAN	1970	Jun 3	1830	Jun 1	3410	May 16 1984
LOWEST DAILY MEAN	0.00	May 12	0.00	Apr 20	0.00	Oct 23 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 14	0.00	Sep 2	0.00	Jun 30 1994
ANNUAL RUNOFF (AC-FT)	98540		114100		188900	
10 PERCENT EXCEEDS	299		274		540	
50 PERCENT EXCEEDS	65		140		152	
90 PERCENT EXCEEDS	18		9.1		26	

e Estimated

HENRYS FORK BASIN

13056500 HENRYS FORK NEAR REXBURG, ID

LOCATION.--Lat 43°49'33", long 111°54'18", in NW¼NE¼ sec.30, T.6 N., R.39 E., Madison County, Menan Buttes quad., Hydrologic Unit 17040203, on right bank 200 ft downstream from highway bridge, 6 mi west of Rexburg, and at mile 9.2.

DRAINAGE AREA.--2,920 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1909 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "North Fork of Snake River near Rexburg".

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.35 ft above NGVD of 1929. Apr. 13, 1909 to Sept. 28, 1912, nonrecording gage at datum 0.67 ft higher. Sept. 29, 1912 to Apr. 4, 1913, nonrecording gage at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by operation of powerplant near Ashton, Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake. Diversions above station for irrigation of about 204,000 acres above and about 5,000 acres below station, of which about 21,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above station into the Snake River Plain aquifer. Station is downstream from all tributaries except inflow from ground water and irrigation waste.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 79,000 ft<sup>3</sup>/s June 5, 1976; maximum gage height, 22.36 ft, June 5, 1976, result of Teton Dam failure.

Maximum discharge excluding 1976, 16,400 ft<sup>3</sup>/s May 17, 1984, gage height, 12.05 ft, from high-water mark in gage well; minimum, 183 ft<sup>3</sup>/s Mar. 24-28, 1934, gage height, 1.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,250 ft<sup>3</sup>/s May 31; minimum daily, 469 ft<sup>3</sup>/s July 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	1170	1340	1530	e1600	2050	e1400	1390	1910	4220	749	1490	1730
2	1160	1370	1500	e1500	2140	e1400	1070	1940	4100	875	1560	1730
3	1110	e1300	1500	1510	1910	e1400	999	1890	3730	1130	1560	1700
4	1080	e1300	1480	1490	e1600	e1400	908	2170	3140	916	1630	1550
5	1100	e1400	1480	1490	e1500	e1400	861	2680	2640	836	1700	1560
6	1150	e1400	1480	1480	e1400	e1400	747	2760	2260	737	1790	1620
7	1030	e1400	1480	e1400	e1300	e1400	747	2450	2070	678	1770	1700
8	1040	1530	1460	e1300	e1300	e1400	638	2290	1830	649	1670	1780
9	947	1590	e1300	e1400	e1400	1440	536	2160	1670	602	1690	1800
10	926	1630	e1300	e1300	e1400	1490	619	2090	1580	523	1660	1730
11	902	1620	e1300	1420	e1400	1550	765	2060	1580	486	1660	1720
12	866	1550	e1400	1540	e1300	1650	891	2080	1780	469	1620	1620
13	874	1510	e1400	e1400	e1400	1760	962	2080	1780	509	1560	1610
14	874	1510	e1400	e1500	e1500	1950	1220	2350	1690	562	1540	1610
15	879	1500	e1400	1530	1650	2000	1300	2600	1700	570	1510	1590
16	876	1480	e1400	1500	1650	1910	1640	2830	1680	578	1560	1540
17	901	1460	e1500	e1400	1610	1840	1500	3040	1790	579	1530	1470
18	887	1460	e1400	e1400	1540	1780	1470	3190	1740	594	1580	1470
19	878	1450	e1300	e1400	1510	1650	1490	3000	1740	671	1570	1350
20	906	1480	e1300	e1500	1510	1610	1350	2430	1850	797	1620	1240
21	898	1470	e1300	e1400	1440	1580	1300	2070	1870	855	1590	1180
22	954	1480	e1300	1480	1490	1560	1440	1950	1780	900	1610	1140
23	934	1520	e1300	1510	1500	1590	1720	2030	1590	900	1720	1100
24	971	e1600	e1200	1490	e1200	1690	1850	2350	1390	969	1720	1070
25	999	e1400	e1000	1470	e1200	1640	2030	2730	1230	1020	1640	1020
26	1070	e1400	e1100	1470	e1300	1600	2270	3070	1110	1080	1680	1010
27	1110	e1400	e1400	1530	e1500	1660	2520	3300	1100	1200	1650	942
28	1150	1520	e1500	1870	e1400	1660	2110	3580	972	1260	1600	948
29	1170	1570	e1600	1880	---	1550	2010	3630	855	1300	1570	931
30	1230	1480	e1600	1800	---	1500	2020	3950	817	1340	1630	984
31	1300	---	e1600	1690	---	1500	---	4250	---	1360	1720	---
TOTAL	31342	44120	43210	46650	42100	49360	40373	80910	57284	25694	50400	42445
MEAN	1011	1471	1394	1505	1504	1592	1346	2610	1909	829	1626	1415
MAX	1300	1630	1600	1880	2140	2000	2520	4250	4220	1360	1790	1800
MIN	866	1300	1000	1300	1200	1400	536	1890	817	469	1490	931
AC-FT	62170	87510	85710	92530	83510	97910	80080	160500	113600	50960	99970	84190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

MEAN	1733	1893	1766	1701	1759	1768	2273	4060	3897	1653	1316	1516
MAX	3071	3282	2663	2972	2701	2805	4847	10600	10220	5133	3986	2896
(WY)	1972	1972	1984	1997	1984	1997	1986	1997	1997	1984	1984	1971
MIN	377	440	1073	1100	1064	340	388	390	434	358	446	561
(WY)	1932	1935	1935	1935	1934	1934	1934	1934	1931	1931	1933	1931

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1909 - 2003
ANNUAL TOTAL	599565	553888	
ANNUAL MEAN	1643	1518	2106
HIGHEST ANNUAL MEAN			4134
LOWEST ANNUAL MEAN			829
HIGHEST DAILY MEAN	6390	4250	79000
LOWEST DAILY MEAN	555	469	183
ANNUAL SEVEN-DAY MINIMUM	618	528	190
ANNUAL RUNOFF (AC-FT)	1189000	1099000	1525000
10 PERCENT EXCEEDS	2500	2060	3670
50 PERCENT EXCEEDS	1500	1490	1720
90 PERCENT EXCEEDS	988	895	935

e Estimated

HENRY'S FORK BASIN

13056500 HENRY'S FORK NEAR REXBURG, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1982, July 1989 to September 1998, April to September 2000, April to November 2002, July to September 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1995, June to September 1996, May to September 1998, April to September 2000, April to November 2002, June to September 2003 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 25.6 °C July 13, 2002, July 21, 2003; minimum, 9.7 °C Sept. 18, 2003.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.6 °C July 21; minimum, 9.7 °C Sept. 18.

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 100 mL (31625)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	
JUL	14...	1715	560	203	8.2	28.6	23.1	3.7	10.2	142	93	--	--	--
AUG	11...	1300	1670	166	7.7	33.0	21.3	2.1	7.3	98	40	--	--	--
SEP	08...	1150	1780	178	8.4	11.6	15.8	2.0	6.3	76	79	54	14.1	4.50

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	14...	--	--	--	--	--	--	--	--	--	<.015	.26	.216	
AUG	11...	--	--	--	--	--	--	--	--	--	<.015	.26	.060	
SEP	08...	12.3	32	2.35	83	.0	68	3.5	4.69	1.8	29.1	<.015	.22	.064

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	14...	.017	.050	5	7.6
AUG	11...	.009	.032	23	104
SEP	08...	.010	.032	13	62

< Less than

HENRY'S FORK BASIN

13056500 HENRY'S FORK NEAR REXBURG, 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	16.5	14.6	15.7	---	---	---	22.5	19.7	21.3	18.3	17.1	17.8
2	16.5	14.1	15.4	---	---	---	22.7	20.7	21.7	18.6	17.1	17.9
3	16.2	13.8	15.1	---	---	---	22.0	20.7	21.4	18.9	17.5	18.1
4	16.0	14.5	15.2	---	---	---	21.8	19.6	20.6	19.4	17.8	18.5
5	16.2	13.7	15.0	---	---	---	21.5	19.6	20.5	19.1	17.1	18.1
6	17.1	14.9	16.0	---	---	---	21.3	19.6	20.5	17.9	16.5	17.1
7	16.5	13.5	15.1	---	---	---	21.3	19.4	20.5	18.3	16.8	17.5
8	17.5	14.3	16.0	20.8	12.1	17.3	20.7	19.2	19.9	17.9	15.4	17.0
9	18.9	15.6	17.1	21.8	16.0	19.0	21.5	18.7	20.0	15.4	13.5	14.2
10	19.1	16.0	17.5	23.5	17.3	20.6	21.7	19.6	20.7	14.5	13.8	14.3
11	18.1	15.4	16.9	24.0	17.8	21.5	22.8	20.5	21.6	14.3	12.8	13.5
12	18.1	14.9	16.5	35.0	18.4	23.2	22.0	20.7	21.4	14.1	13.4	13.9
13	17.5	15.7	16.5	24.7	16.7	20.7	22.2	19.4	20.8	13.4	11.7	12.6
14	18.6	14.6	16.5	23.7	17.5	20.6	23.0	20.5	21.8	13.5	12.1	12.8
15	19.4	16.2	17.7	24.0	18.6	21.3	23.4	21.3	22.2	13.4	12.1	12.8
16	20.0	16.4	18.2	24.0	19.4	21.8	21.8	20.5	21.3	12.9	12.1	12.6
17	21.3	18.1	19.8	24.6	19.6	22.1	20.9	17.6	19.1	12.1	10.6	11.2
18	21.3	18.4	20.0	25.4	20.2	22.7	19.4	16.2	17.7	10.9	9.7	10.3
19	20.8	18.6	19.8	25.1	20.5	22.8	19.9	18.1	19.1	11.2	9.8	10.4
20	19.9	17.3	18.2	25.1	21.2	23.1	20.2	18.3	19.3	12.3	10.4	11.2
21	17.3	14.8	16.1	25.6	21.8	23.6	19.7	18.9	19.4	12.8	11.2	12.0
22	15.9	14.0	14.9	25.2	21.7	23.5	20.5	19.1	19.6	13.1	11.5	12.3
23	15.1	12.4	13.8	25.1	21.7	23.4	20.5	18.6	19.5	13.5	11.8	12.6
24	15.1	13.2	14.3	24.7	22.0	23.4	20.7	19.2	20.0	13.7	12.1	12.9
25	16.7	10.3	14.0	24.2	21.5	22.8	20.4	18.7	19.7	13.7	12.3	13.0
26	---	---	---	23.7	21.2	22.3	20.2	18.9	19.7	14.0	12.6	13.3
27	---	---	---	24.2	21.3	22.7	19.9	18.7	19.3	14.5	12.6	13.5
28	---	---	---	24.0	21.3	22.8	19.1	17.8	18.5	14.8	12.9	13.9
29	---	---	---	24.0	21.2	22.7	18.7	16.2	17.7	14.9	13.4	14.1
30	---	---	---	23.4	20.7	22.3	17.9	15.7	16.6	14.9	13.4	14.1
31	---	---	---	23.0	21.0	22.1	18.3	17.1	17.7	---	---	---
MONTH	---	---	---	---	---	---	23.4	15.7	20.0	19.4	9.7	14.1

## SNAKE RIVER BASIN

## 13057000 SNAKE RIVER NEAR MENAN, ID

LOCATION.--Lat 43°45'10", long 111°58'43", 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.--No estimated daily discharges. 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, 1,600 ft<sup>3</sup>/s Jan. 30, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft<sup>3</sup>/s July 28, gage height, 5.76 ft; minimum daily, 1,330 ft<sup>3</sup>/s Apr. 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	4740	2380	2840	2710	3280	2370	2330	4480	10900	9790	8260	8740
2	3880	2410	2790	2640	3380	2400	1990	4810	10800	9260	8470	8680
3	3280	2400	2760	2600	3130	2370	1870	4710	10400	9490	8520	7850
4	2750	2380	2720	2570	2850	2430	1740	4860	9720	9340	8670	7590
5	2770	2410	2710	2560	2690	2390	1650	5460	9060	9270	8660	6770
6	2760	2570	2710	2540	2500	2290	1550	5490	8580	9440	8700	6700
7	2810	2610	2690	2450	2370	2390	1540	5210	8450	9610	8730	6790
8	2760	2630	2670	2320	2340	2350	1450	4820	8580	9490	8830	6810
9	2630	2730	2600	2270	2540	2330	1330	4490	8550	9490	9000	6810
10	2550	2960	2580	2450	2520	2400	1340	4640	8370	9480	8960	6580
11	2520	2980	2600	2480	2560	2510	1420	4910	8340	9520	8980	6450
12	2630	2900	2670	2540	2500	2650	1620	5100	8510	9560	8950	6330
13	2430	2830	2680	2520	2520	2780	2100	5350	8930	9810	8910	6290
14	2420	2790	2660	2610	2600	3010	2630	5910	9470	10400	9130	6290
15	2390	2780	2660	2570	2690	3110	2840	6840	9510	10700	8810	5850
16	2250	2750	2690	2520	2690	3010	3150	7240	9440	10700	8070	5650
17	2150	2740	2690	2440	2640	3010	2980	7720	9750	10600	7650	5620
18	2140	2720	2650	2350	2570	2850	2890	7940	9780	10600	7760	5620
19	2060	2690	2650	2380	2500	2690	3020	7690	10100	11100	7860	5520
20	2040	2720	2460	2480	2480	2590	3680	6980	10400	11400	7850	5350
21	2020	2700	2620	2540	2400	2540	3640	6540	10500	11500	7910	5240
22	2010	2730	2610	2500	2440	2530	3810	6530	10500	11400	7960	5180
23	1820	2760	2580	2580	2470	2520	4200	7360	10400	11500	8120	5100
24	1820	2890	2300	2550	2290	2640	4360	8390	10200	11800	8340	4820
25	1850	2760	2100	2500	2170	2600	4570	9830	10000	12100	8300	4180
26	1910	2610	2150	2500	2220	2540	4730	10000	9870	12200	8300	4060
27	1920	2640	2350	2490	2400	2630	5090	10200	9700	12500	8230	3770
28	1970	2700	2640	2800	2440	2620	5080	10300	10100	12800	8490	3700
29	2010	2900	2760	3040	---	2500	4770	10300	10200	12000	8610	3710
30	2200	2790	2730	2850	---	2400	4760	10300	10200	10500	8680	3720
31	2420	---	2750	2780	---	2400	---	10700	---	9010	8750	---
TOTAL	75910	80860	81070	79130	72180	79850	88130	215100	289310	326360	262460	175770
MEAN	2449	2695	2615	2553	2578	2576	2938	6939	9644	10530	8466	5859
MAX	4740	2980	2840	3040	3380	3110	5090	10700	10900	12800	9130	8740
MIN	1820	2380	2100	2270	2170	2290	1330	4480	8340	9010	7650	3700
AC-FT	150600	160400	160800	157000	143200	158400	174800	426700	573800	647300	520600	348600

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

	2000	2001	2002	2003
MEAN	3001	2744	2520	2377
MAX	3651	3143	2770	2553
(WY)	2001	2001	2001	2003
MIN	2449	2395	2175	2026
(WY)	2003	2002	2002	2002

SUMMARY STATISTICS	FOR 2002	CALENDAR YEAR	FOR 2003	WATER YEAR	WATER YEARS 2000 - 2003
ANNUAL TOTAL	1662700		1826130		
ANNUAL MEAN	4555		5003		4603
HIGHEST ANNUAL MEAN					5003
LOWEST ANNUAL MEAN					4273
HIGHEST DAILY MEAN	9670	Jun 4	12800	Jul 28	12800
LOWEST DAILY MEAN	1600	Jan 30	1330	Apr 9	1330
ANNUAL SEVEN-DAY MINIMUM	1800	Jan 27	1460	Apr 6	1460
ANNUAL RUNOFF (AC-FT)	3298000		3622000		3335000
10 PERCENT EXCEEDS	8460		9920		8580
50 PERCENT EXCEEDS	2760		2890		3190
90 PERCENT EXCEEDS	2000		2330		2160

SNAKE RIVER BASIN

13057132 GREAT WESTERN CANAL SPILLBACK NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°36'03", long 112°03'43", 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.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow is spillback 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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	0.00	0.00	0.00	0.00	0.00	0.00	216	120	120	128	236
2	365	0.00	0.00	0.00	0.00	0.00	0.00	211	122	127	135	234
3	347	0.00	0.00	0.00	0.00	0.00	0.00	214	129	110	142	234
4	167	0.00	0.00	0.00	0.00	0.00	0.00	180	122	107	141	231
5	38	0.00	0.00	0.00	0.00	0.00	0.00	175	134	105	128	228
6	33	0.00	0.00	0.00	0.00	0.00	0.00	176	153	109	123	228
7	79	0.00	0.00	0.00	0.00	0.00	0.00	166	152	109	148	229
8	197	0.00	0.00	0.00	0.00	0.00	0.00	187	156	109	191	229
9	172	0.00	0.00	0.00	0.00	0.00	0.00	200	154	112	193	235
10	4.5	0.00	0.00	0.00	0.00	0.00	0.00	189	147	113	193	237
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	196	147	113	191	237
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	191	143	127	192	238
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	154	138	144	191	239
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132	139	149	192	238
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143	150	146	198	140
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145	151	148	194	99
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151	145	151	191	98
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155	143	165	191	97
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151	144	170	194	100
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132	138	160	190	117
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115	132	132	183	117
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	135	128	158	116
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107	135	125	130	115
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114	135	130	109	116
25	0.00	0.00	0.00	0.00	0.00	0.00	150	137	124	138	200	112
26	0.00	0.00	0.00	0.00	0.00	0.00	322	123	122	145	223	109
27	0.00	0.00	0.00	0.00	0.00	0.00	329	113	119	158	222	109
28	0.00	0.00	0.00	0.00	0.00	0.00	214	118	118	164	225	109
29	0.00	0.00	0.00	0.00	---	0.00	255	117	122	160	230	108
30	0.00	0.00	0.00	0.00	---	0.00	240	109	118	150	234	110
31	0.00	---	0.00	0.00	---	0.00	---	108	---	132	236	---
TOTAL	1751.50	0.00	0.00	0.00	0.00	0.00	1510.00	4737	4087	4156	5596	5045
MEAN	56.5	0.000	0.000	0.000	0.000	0.000	50.3	153	136	134	181	168
MAX	365	0.00	0.00	0.00	0.00	0.00	329	216	156	170	236	239
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107	118	105	109	97
AC-FT	3470	0.00	0.00	0.00	0.00	0.00	3000	9400	8110	8240	11100	10010
CAL YR 2002	TOTAL 28754.50	MEAN 78.8	MAX 445	MIN 0.00	AC-FT 57030							
WTR YR 2003	TOTAL 26882.50	MEAN 73.7	MAX 365	MIN 0.00	AC-FT 53320							

## SNAKE RIVER MAIN STEM

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

LOCATION.--Lat 43°36'17", long 112°03'31", 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 poor. 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, 11,600 ft<sup>3</sup>/s July 28; minimum daily, 1,430 ft<sup>3</sup>/s Apr. 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	3740	2750	2580	e2600	2880	e2300	2200	3720	8810	7980	7460	8230
2	3310	2690	2530	e2550	2830	e2200	2080	3720	8910	7490	7520	8250
3	2670	2710	2570	e2500	2840	e2250	2100	3960	8520	7670	7700	7820
4	2120	2680	2570	2480	2630	2300	1840	4100	8000	7790	7890	7210
5	2270	2700	2450	2380	2460	2280	1820	4580	7420	7710	7930	6590
6	2400	2800	2460	2370	2380	2260	1740	4670	7080	7660	7950	6210
7	2440	2760	2430	2260	e2200	2250	1570	4440	6900	7760	7900	6190
8	2160	2880	2470	e2150	e2150	2290	1610	3940	7120	7840	7890	6160
9	2150	2910	2440	e2050	e2100	2100	1430	3570	7070	7960	7990	6180
10	2190	2970	2430	e2150	e2250	2250	1440	3560	6640	7820	8270	6120
11	2410	2960	2450	e2300	e2400	2300	1520	4050	6650	7880	8260	5880
12	2700	2910	2390	e2500	e2300	2480	1610	4140	6700	7910	8140	5810
13	2430	2810	2490	e2450	2400	2410	1970	4090	7000	8210	8070	5610
14	2490	2830	2530	e2400	2450	2610	2540	4330	7880	8510	8160	5690
15	2480	2780	2400	2330	2480	2690	2690	4980	8190	8700	8050	5320
16	2410	2680	2390	2360	2400	2680	2800	5520	8190	8850	7360	4900
17	2270	2660	2440	2230	2400	2550	2700	5810	8160	8800	6750	4940
18	2250	2630	2480	2170	2270	2300	2710	6240	8420	8840	6940	4850
19	2150	2640	2440	e2100	e2150	2360	2590	6030	8630	9040	7060	4830
20	2130	2680	2260	e2300	e2150	2210	3050	5370	8980	9750	6940	4670
21	2240	2620	2350	e2400	e2300	e2150	3260	4580	9270	9910	7020	4450
22	2220	2560	2330	2340	e2200	e2100	3330	4530	9410	9980	7150	4420
23	2060	2720	e2250	2430	e2170	e1950	3570	5110	9400	10100	7290	4300
24	2060	2800	e2100	2420	e2000	e2250	3720	6040	9120	10300	7520	4120
25	2070	2710	e1900	2310	e2100	e2300	3690	7470	8960	10700	7600	3420
26	2180	2520	e2100	2360	e2000	e2100	3830	7850	8720	11000	7460	3120
27	2180	2480	e2300	2280	e2300	e2300	4120	8020	8440	11200	7580	3030
28	2320	2500	e2400	2500	e2350	2270	4200	8020	8670	11600	7630	2920
29	2330	2710	e2600	2850	---	2210	3910	8020	8710	11200	7750	2990
30	2550	2630	e2500	2570	---	2140	3820	8010	8690	10200	7890	2880
31	2810	---	e2600	2500	---	2020	---	8410	---	8600	8020	---
TOTAL	74190	81680	74630	73590	65340	70860	79460	166880	244660	278960	237140	157110
MEAN	2393	2723	2407	2374	2334	2286	2649	5383	8155	8999	7650	5237
MAX	3740	2970	2600	2850	2880	2690	4200	8410	9410	11600	8270	8250
MIN	2060	2480	1900	2050	1900	1950	1430	3560	6640	7490	6750	2880
AC-FT	147200	162000	148000	146000	129600	140600	157600	331000	485300	553300	470400	311600

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

	MEAN	3358	3515	3264	3387	4089	5218	6439	10740	12810	8354	6310	4941
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	1990	
MIN	2393	2319	1848	1816	1711	1987	2297	4911	6184	5767	4511	3703	
(WY)	2003	2002	2002	2002	2002	1988	1991	2002	2002	2001	2001	1988	

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1988 - 2003
ANNUAL TOTAL	1400940	1604500	
ANNUAL MEAN	3838	4396	6040
HIGHEST ANNUAL MEAN			12880
LOWEST ANNUAL MEAN			3797
HIGHEST DAILY MEAN	8560	11600	47900
LOWEST DAILY MEAN	1400	1430	950
ANNUAL SEVEN-DAY MINIMUM	1510	1560	1210
ANNUAL RUNOFF (AC-FT)	2779000	3183000	4376000
10 PERCENT EXCEEDS	7030	8260	12000
50 PERCENT EXCEEDS	2680	2760	4600
90 PERCENT EXCEEDS	1800	2150	2230

e Estimated