



**Figure 18.** Schematic diagram showing gaging stations in Snake River Basin between Idaho Falls and Snake River at Neeley.

WILLOW CREEK BASIN

13057500 GRAYS LAKE OUTLET NEAR HERMAN, ID

LOCATION.--Lat 43°08'05", long 111°29'42"(revised), (NAD83), in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.26, T.3 S., R.42 E., Bonneville County, Herman quad., Hydrologic Unit 17040205, on right bank 200 ft upstream from road crossing, 3.5 mi west of Herman, and 8 mi upstream from Brockman Creek.

DRAINAGE AREA.-- 137 mi<sup>2</sup>.

PERIOD OF RECORD.--1916-25 (irrigation seasons only), June 1966 to October 1970, June 2002 to current year (irrigation season only).

REVISED RECORDS.--WDR-ID-1969: 1967.

GAGE.--Water-stage recorder. Elevation of gage is 6,384 ft, from topographic map. Prior to Oct. 18, 1917, non-recording gage, and Oct. 18, 1917 to Sept. 30, 1925, water-stage recorder at site 2 mi downstream at different datum.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,350 ft<sup>3</sup>/s May 15, 1917, gage height 5.9 ft (site and datum then in use); no flow Apr. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4.3 ft<sup>3</sup>/s Apr. 17; minimum daily, 0.07 ft<sup>3</sup>/s Apr. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	0.07	0.45	1.2	0.38	0.31	0.28
2	---	---	---	---	---	---	0.08	0.43	1.0	0.38	0.39	0.28
3	---	---	---	---	---	---	0.11	0.59	1.00	0.38	0.48	0.28
4	---	---	---	---	---	---	0.11	0.80	1.1	0.40	0.53	0.28
5	---	---	---	---	---	---	0.09	0.65	1.1	0.34	0.43	0.26
6	---	---	---	---	---	---	0.09	0.63	1.7	0.31	0.29	0.27
7	---	---	---	---	---	---	0.10	1.1	1.3	0.29	0.40	0.32
8	---	---	---	---	---	---	0.10	0.84	1.1	0.30	0.34	0.52
9	---	---	---	---	---	---	0.09	0.87	1.1	0.34	0.27	0.50
10	---	---	---	---	---	---	0.10	0.91	0.94	0.42	0.26	0.54
11	---	---	---	---	---	---	0.12	0.99	0.86	0.39	0.25	0.54
12	---	---	---	---	---	---	0.22	0.97	1.3	0.32	0.24	0.62
13	---	---	---	---	---	---	0.28	0.85	1.0	0.27	0.24	0.61
14	---	---	---	---	---	---	0.20	0.69	0.90	0.25	0.22	0.52
15	---	---	---	---	---	---	0.20	0.71	0.83	0.24	0.22	0.53
16	---	---	---	---	---	---	0.45	0.90	0.79	0.24	0.29	0.45
17	---	---	---	---	---	---	4.3	0.99	0.78	0.25	0.32	0.41
18	---	---	---	---	---	---	2.1	0.76	0.78	0.24	0.55	0.40
19	---	---	---	---	---	---	0.87	0.80	0.75	0.23	0.51	0.32
20	---	---	---	---	---	---	0.74	0.76	0.73	0.22	0.29	0.28
21	---	---	---	---	---	---	0.52	0.76	0.72	0.21	0.26	0.30
22	---	---	---	---	---	---	0.61	0.76	0.65	0.22	0.27	0.30
23	---	---	---	---	---	---	0.89	0.86	0.64	0.27	0.26	0.30
24	---	---	---	---	---	---	1.2	0.74	0.58	0.31	0.25	0.45
25	---	---	---	---	---	---	0.87	0.68	0.64	0.29	0.24	0.43
26	---	---	---	---	---	---	2.2	0.75	0.69	0.24	0.23	0.36
27	---	---	---	---	---	---	0.77	0.78	0.60	0.24	0.24	0.31
28	---	---	---	---	---	---	0.78	0.77	0.52	0.23	0.26	0.28
29	---	---	---	---	---	---	0.53	0.86	0.49	0.26	0.28	0.27
30	---	---	---	---	---	---	0.51	0.95	0.44	0.27	0.27	0.26
31	---	---	---	---	---	---	---	0.94	---	0.28	0.27	---
TOTAL	---	---	---	---	---	---	19.30	24.54	26.23	9.01	9.66	11.47
MEAN	---	---	---	---	---	---	0.64	0.79	0.87	0.29	0.31	0.38
MAX	---	---	---	---	---	---	4.3	1.1	1.7	0.42	0.55	0.62
MIN	---	---	---	---	---	---	0.07	0.43	0.44	0.21	0.22	0.26
AC-FT	---	---	---	---	---	---	38	49	52	18	19	23



WILLOW CREEK BASIN  
13058000 WILLOW CREEK NEAR RIRIE, ID

LOCATION.--Lat 43°35'00", long 111°44'46" (revised), (NAD83), in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.16, T.3 N., R.40 E., Bonneville County, Poplar quad., Hydrologic Unit 17040205, on right bank 0.25 mi downstream from Ririe Dam, 3.4 mi southeast of Ririe, and at mile 20.2.

DRAINAGE AREA.--627 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to September 1904, October 1916 to September 1925, May to August 1928, October 1962 to September 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Elevation of gage is 4,950 ft above NGVD of 1929, from topographic map. Prior to September 1904, nonrecording gage at site about 3.25 mi downstream at different datum. October 1916 to June 1921, nonrecording gage, June 1921 to August 1928, water-stage recorder at present site. October 1962 to September 1979, at site 1.75 mi downstream at different datum. Records comparable.

REMARKS.--No estimated daily discharges. Records good. Diversions above station for irrigation of about 7,300 acres, of which about 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake some years, about 40 mi upstream, into Meadow Creek basin and thence into Blackfoot Reservoir. Flow regulated by Ririe Reservoir beginning December 1975, with some storage beginning July 1974. During winter months when gates at Ririe Dam are closed, seepage may pass the gage, but sinks into the gravels; consequently this flow is not published.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed (1903-74), 4,200 ft<sup>3</sup>/s May 15, 1917, gage height, 16.30 ft; minimum daily, 1.2 ft<sup>3</sup>/s Aug. 12, 1974.

Maximum discharge since regulation began in 1975, 2,320 ft<sup>3</sup>/s May 20, 1975, gage height, 14.07 ft; no flow for long periods most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1899, 5,080 ft<sup>3</sup>/s Feb. 11, 1962, from estimate based on field survey, gage height, 15.0 ft from floodmarks; stream reported practically dry during summers of 1899 and 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 194 ft<sup>3</sup>/s Sept. 21-24; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	0.00	0.00	0.00	0.00	0.00	0.00	105	117	91	27	26
2	20	0.00	0.00	0.00	0.00	0.00	0.00	105	117	92	27	26
3	20	0.00	0.00	0.00	0.00	0.00	0.00	105	117	91	27	26
4	20	0.00	0.00	0.00	0.00	0.00	0.00	105	117	91	27	26
5	20	0.00	0.00	0.00	0.00	0.00	0.00	106	117	69	27	27
6	20	0.00	0.00	0.00	0.00	0.00	0.00	106	118	54	27	27
7	20	0.00	0.00	0.00	0.00	0.00	0.00	106	118	54	26	27
8	20	0.00	0.00	0.00	0.00	0.00	0.00	106	118	54	26	27
9	19	0.00	0.00	0.00	0.00	0.00	0.00	107	118	54	26	26
10	19	0.00	0.00	0.00	0.00	0.00	0.00	107	118	54	26	26
11	19	0.00	0.00	0.00	0.00	0.00	0.00	107	118	54	26	26
12	10	0.00	0.00	0.00	0.00	0.00	0.00	107	118	43	26	26
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108	118	38	26	27
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108	118	38	26	28
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109	118	38	26	28
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110	118	38	26	28
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111	118	37	26	28
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111	118	31	26	28
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	118	28	26	66
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	118	28	26	144
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113	107	28	26	194
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113	103	28	26	194
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114	103	28	26	194
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115	103	28	26	194
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115	102	28	26	193
26	0.00	0.00	0.00	0.00	0.00	0.00	72	115	102	28	26	192
27	0.00	0.00	0.00	0.00	0.00	0.00	105	115	96	28	26	192
28	0.00	0.00	0.00	0.00	0.00	0.00	105	116	91	28	26	191
29	0.00	0.00	0.00	0.00	---	0.00	105	116	91	27	26	191
30	0.00	0.00	0.00	0.00	---	0.00	105	116	91	27	26	191
31	0.00	---	0.00	0.00	---	0.00	---	117	---	27	26	---
TOTAL	228.00	0.00	0.00	0.00	0.00	0.00	492.00	3418	3344	1382	812	2619
MEAN	7.35	0.00	0.00	0.00	0.00	0.00	16.4	110	111	44.6	26.2	87.3
MAX	21	0.00	0.00	0.00	0.00	0.00	105	117	118	92	27	194
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	91	27	26	26
AC-FT	452	0.00	0.00	0.00	0.00	0.00	976	6780	6630	2740	1610	5190

WILLOW CREEK BASIN  
13058000 WILLOW CREEK NEAR RIRIE, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1974, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	50.0	53.6	49.0	58.5	64.3	102	401	851	358	111	48.4	42.3
MAX	92.6	81.4	91.6	160	155	274	750	2133	1325	313	117	73.1
(WY)	1973	1973	1965	1969	1963	1972	1919	1917	1917	1917	1917	1917
MIN	20.5	30.4	25.3	25.4	35.0	35.5	124	234	85.9	35.3	12.5	16.6
(WY)	1964	1967	1970	1963	1904	1964	1970	1966	1924	1919	1966	1924

SUMMARY STATISTICS

<sup>a</sup> WATER YEARS 1903 - 1974

ANNUAL MEAN	176
HIGHEST ANNUAL MEAN	280
LOWEST ANNUAL MEAN	88.0
HIGHEST DAILY MEAN	4200
LOWEST DAILY MEAN	1.2
ANNUAL SEVEN-DAY MINIMUM	4.3
ANNUAL RUNOFF (AC-FT)	127700
10 PERCENT EXCEEDS	546
50 PERCENT EXCEEDS	66
90 PERCENT EXCEEDS	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	168	54.1	11.2	4.91	10.0	34.6	73.2	289	184	80.2	139	239
MAX	443	223	116	51.9	67.5	360	434	1360	824	340	670	610
(WY)	1998	1999	1996	1975	1978	1986	1976	1997	1975	1976	1994	1993
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.5	30.4	23.5	25.1	17.7
(WY)	2002	1992	1986	1986	1987	1987	1988	1977	2001	2003	1977	1977

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

<sup>b</sup> WATER YEARS 1975 - 2005

ANNUAL TOTAL	17988.00	12295.00	
ANNUAL MEAN	49.1	33.7	108
HIGHEST ANNUAL MEAN			295
LOWEST ANNUAL MEAN			32.4
HIGHEST DAILY MEAN	385	Aug 24	194
LOWEST DAILY MEAN	0.00	Jan 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
ANNUAL RUNOFF (AC-FT)	35680	24390	77980
10 PERCENT EXCEEDS	110	115	369
50 PERCENT EXCEEDS	0.00	0.00	32
90 PERCENT EXCEEDS	0.00	0.00	0.00

a Unregulated  
b Regulated

## WILLOW CREEK BASIN

## 13058510 SAND CREEK ABOVE WILLOW CREEK DIVERSION, NEAR UCON, ID

LOCATION.--Lat 43°34'27", long 111°53'42", (NAD83), in NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.20, T.3 N., R.39 E., Bonneville County, Ucon quad., Hydrologic Unit 17040201, on right bank about 300 ft downstream from Sand Creek control gates, about 0.6 mi east of U.S. Highway 26 crossing with Willow Creek, and 3.3 mi southeast of Ucon.

PERIOD OF RECORD.--March 1978 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,850 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Flow controlled by headgates. Water is diverted during the irrigation season from the Snake River through Eagle Rock Canal to Willow Creek 5.5 mi upstream from the station. Diversions below Ririe Lake (13057950) and above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 797 ft<sup>3</sup>/s June 13, 1996; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	0.00	0.00	0.00	0.00	0.00	0.00	149	409	504	416	414
2	220	0.00	0.00	0.00	0.00	0.00	0.00	142	435	499	399	396
3	228	0.00	0.00	0.00	0.00	0.00	0.00	194	422	527	397	357
4	234	0.00	0.00	0.00	0.00	0.00	0.00	258	406	565	388	373
5	230	0.00	0.00	0.00	0.00	0.00	0.00	184	391	540	383	364
6	242	0.00	0.00	0.00	0.00	0.00	0.00	184	422	504	362	367
7	234	0.00	0.00	0.00	0.00	0.00	0.00	201	422	522	358	348
8	230	0.00	0.00	0.00	0.00	0.00	0.00	211	379	538	358	329
9	243	0.00	0.00	0.00	0.00	0.00	0.00	182	356	544	329	346
10	241	0.00	0.00	0.00	0.00	0.00	0.00	239	330	559	332	341
11	233	0.00	0.00	0.00	0.00	0.00	0.00	235	354	555	321	358
12	225	0.00	0.00	0.00	0.00	0.00	0.00	225	397	552	332	353
13	219	0.00	0.00	0.00	0.00	0.00	0.00	211	415	562	327	321
14	230	0.00	0.00	0.00	0.00	0.00	0.00	197	429	566	332	328
15	228	0.00	0.00	0.00	0.00	0.00	0.00	193	452	556	337	331
16	200	0.00	0.00	0.00	0.00	0.00	0.00	209	439	551	345	332
17	183	0.00	0.00	0.00	0.00	0.00	0.00	251	377	543	329	347
18	189	0.00	0.00	0.00	0.00	0.00	0.00	235	366	528	302	338
19	189	0.00	0.00	0.00	0.00	0.00	0.00	215	408	499	296	286
20	179	0.00	0.00	0.00	0.00	0.00	0.00	207	427	510	300	293
21	157	0.00	0.00	0.00	0.00	0.00	0.00	214	481	498	312	319
22	151	0.00	0.00	0.00	0.00	0.00	0.00	190	507	494	319	301
23	158	0.00	0.00	0.00	0.00	0.00	0.00	183	513	462	302	297
24	153	0.00	0.00	0.00	0.00	0.00	0.00	191	521	453	342	297
25	145	0.00	0.00	0.00	0.00	0.00	0.00	241	513	471	368	276
26	144	0.00	0.00	0.00	0.00	0.00	59	262	527	441	395	255
27	142	0.00	0.00	0.00	0.00	0.00	130	272	501	439	386	247
28	146	0.00	0.00	0.00	0.00	0.00	133	305	491	448	393	240
29	108	0.00	0.00	0.00	---	0.00	143	347	505	435	397	239
30	2.3	0.00	0.00	0.00	---	0.00	135	360	499	406	393	232
31	0.00	---	0.00	0.00	---	0.00	---	353	---	417	406	---
TOTAL	5708.30	0.00	0.00	0.00	0.00	0.00	600.00	7040	13094	15688	10956	9625
MEAN	184	0.00	0.00	0.00	0.00	0.00	20.0	227	436	506	353	321
MAX	243	0.00	0.00	0.00	0.00	0.00	143	360	527	566	416	414
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	142	330	406	296	232
AC-FT	11320	0.00	0.00	0.00	0.00	0.00	1190	13960	25970	31120	21730	19090
CAL YR 2004	TOTAL 62412.24	MEAN 171	MAX 516	MIN 0.00	AC-FT 123800							
WTR YR 2005	TOTAL 62711.30	MEAN 172	MAX 566	MIN 0.00	AC-FT 124400							

WILLOW CREEK BASIN

13058520 WILLOW CREEK FLOODWAY CHANNEL NEAR UCON, ID

LOCATION.--Lat 43°34'35", long 111°54'47", (NAD83), in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.19, T.3 N., R.39 E., Bonneville County, Ucon quad., Hydrologic Unit 17040201, on right bank 300 ft below Willow Creek floodway channel diversion structure, 2 mi southeast of Ucon.

PERIOD OF RECORD.--April 1978 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,840 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Flow controlled by headgates. Floodway channel built to carry excess flow from Willow Creek and Sand Creek during periods of flooding.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,030 ft<sup>3</sup>/s Feb. 11, 1979; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.50	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	175
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	171
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	179
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	204
26	0.00	0.00	0.00	0.00	0.00	0.00	7.2	0.00	0.44	0.00	0.00	226
27	0.00	0.00	0.00	0.00	0.00	0.00	40	0.00	0.69	0.00	0.00	208
28	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.63	0.00	0.00	204
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.64	0.00	0.00	196
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.19	0.00	0.00	203
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	65.20	0.03	4.92	1.60	0.00	2009.25
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.16	0.05	0.00	67.0
MAX	0.00	0.00	0.00	0.00	0.00	0.00	40	0.03	0.81	0.50	0.00	226
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	129	0.06	9.8	3.2	0.00	3990
CAL YR 2004	TOTAL	7287.67	MEAN	19.9	MAX	350	MIN	0.00	AC-FT	14460		
WTR YR 2005	TOTAL	2081.00	MEAN	5.70	MAX	226	MIN	0.00	AC-FT	4130		

WILLOW CREEK BASIN

13058529 WILLOW CREEK FLOODWAY CHANNEL AT MOUTH NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°34'29", long 112°02'53", (NAD83), in NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec.24, T.3 N., R.37 E., Bonneville County, Idaho Falls North quad., Hydrologic Unit 17040201, on left bank 80 ft upstream from mouth, and 4.5 mi north of Idaho Falls.

PERIOD OF RECORD.--October 1987 to current year. Published 1988-91 as station number 13058549.

GAGE.--Water-stage recorder. Elevation of gage is 4,745 ft above NGVD of 1929, from topographic map. October 1987 to April 14, 1988 at datum 10.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow controlled by headgates. Floodway channel built to carry excess flow from Willow Creek and Sand Creek during periods of flooding.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 913 ft<sup>3</sup>/s May 11, 1997; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	0.00	0.00	0.00	0.00	0.00	0.00	1.6	2.7	0.00	0.00	0.84
2	4.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	0.00	0.00	0.00
3	4.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8	0.00	0.00	0.00
4	3.1	0.00	0.00	0.00	0.00	0.00	0.00	1.2	21	0.00	0.00	0.00
5	2.6	0.00	0.00	0.00	0.00	0.00	0.00	7.1	18	1.7	0.19	0.00
6	2.7	0.00	0.00	0.00	0.00	0.00	0.00	2.6	26	0.00	0.00	0.00
7	8.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	0.00	1.7	1.7
8	8.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42	0.00	1.1	4.2
9	4.8	0.00	0.00	0.00	0.00	0.00	0.00	1.1	46	0.00	2.4	4.1
10	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.22	40	0.00	4.4	7.4
11	6.7	0.00	0.00	0.00	0.00	0.00	0.00	4.0	32	2.2	0.00	2.4
12	12	0.00	0.00	0.00	0.00	0.00	0.00	3.8	25	7.9	0.90	0.29
13	8.9	0.00	0.00	0.00	0.00	0.00	0.00	7.7	23	1.7	1.0	6.8
14	7.3	0.00	0.00	0.00	0.00	0.00	0.00	4.2	13	0.11	0.00	6.9
15	6.8	0.00	0.00	0.00	0.00	0.00	0.00	3.2	7.1	1.0	0.00	3.0
16	7.0	0.00	0.00	0.00	0.00	0.00	0.00	2.3	2.6	1.1	0.00	0.00
17	13	0.00	0.00	0.00	0.00	0.00	0.00	11	6.0	2.2	0.00	0.00
18	24	0.00	0.00	0.00	0.00	0.00	0.00	18	4.1	1.3	0.00	0.36
19	31	0.00	0.00	0.00	0.00	0.00	0.00	15	0.43	0.00	0.05	26
20	34	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.38	e1.0	44
21	18	0.00	0.00	0.00	0.00	0.00	0.00	11	0.66	1.7	e0.00	148
22	16	0.00	0.00	0.00	0.00	0.00	0.00	11	3.0	0.00	e0.00	162
23	16	0.00	0.00	0.00	0.00	0.00	0.00	7.7	5.6	0.00	0.00	147
24	16	0.00	0.00	0.00	0.00	0.00	0.00	4.4	5.9	0.69	0.26	156
25	16	0.00	0.00	0.00	0.00	0.00	0.00	3.8	5.7	5.1	1.1	176
26	16	0.00	0.00	0.00	0.00	0.00	2.7	2.9	8.0	4.8	0.65	192
27	16	0.00	0.00	0.00	0.00	0.00	27	0.95	11	5.6	1.00	186
28	15	0.00	0.00	0.00	0.00	0.00	14	11	4.6	6.2	0.00	180
29	13	0.00	0.00	0.00	---	0.00	0.00	14	3.7	4.0	0.35	165
30	0.19	0.00	0.00	0.00	---	0.00	0.00	1.9	2.0	2.2	3.4	169
31	0.00	---	0.00	0.00	---	0.00	---	1.8	---	1.2	1.4	---
TOTAL	338.69	0.00	0.00	0.00	0.00	0.00	43.70	167.47	410.59	51.08	20.90	1788.99
MEAN	10.9	0.00	0.00	0.00	0.00	0.00	1.46	5.40	13.7	1.65	0.67	59.6
MAX	34	0.00	0.00	0.00	0.00	0.00	27	18	46	7.9	4.4	192
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	672	0.00	0.00	0.00	0.00	0.00	87	332	814	101	41	3550

CAL YR 2004 TOTAL 6521.90 MEAN 17.8 MAX 273 MIN 0.00 AC-FT 12940  
WTR YR 2005 TOTAL 2821.42 MEAN 7.73 MAX 192 MIN 0.00 AC-FT 5600

e Estimated



WILLOW CREEK BASIN

13058530 WILLOW CREEK BELOW FLOODWAY CHANNEL, NEAR UCON, ID

LOCATION.--Lat 43°34'33", long 111°54'43", (NAD83), in SE<sup>1</sup>/<sub>4</sub> sec.19, T.3 N., R.39 E., Bonneville County, Ucon quad., Hydrologic Unit 17040201, on left bank 100 ft below outlet diversion structure, and 2.0 mi southeast of Ucon.

PERIOD OF RECORD.--December 1977 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,840 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1990, at datum 3.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow controlled by headgates. Water is diverted during the irrigation season from the Snake River through the Eagle Rock Canal to Willow Creek about 6.5 mi upstream from the station. Diversions below Ririe Lake (13057950) and above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 279 ft<sup>3</sup>/s Feb. 11, 1979; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	0.00	0.00	0.00	0.00	0.00	0.00	65	129	184	153	150
2	77	0.00	0.00	0.00	0.00	0.00	0.00	66	157	181	153	152
3	75	0.00	0.00	0.00	0.00	0.00	0.00	66	162	179	e153	153
4	75	0.00	0.00	0.00	0.00	0.00	0.00	58	159	179	e153	153
5	75	0.00	0.00	0.00	0.00	0.00	0.00	62	158	178	e153	152
6	75	0.00	0.00	0.00	0.00	0.00	0.00	67	157	175	153	152
7	75	0.00	0.00	0.00	0.00	0.00	0.00	67	156	176	153	152
8	75	0.00	0.00	0.00	0.00	0.00	0.00	64	146	175	153	151
9	75	0.00	0.00	0.00	0.00	0.00	0.00	62	135	166	153	147
10	75	0.00	0.00	0.00	0.00	0.00	0.00	62	143	165	153	127
11	73	0.00	0.00	0.00	0.00	0.00	0.00	66	151	166	154	102
12	72	0.00	0.00	0.00	0.00	0.00	0.00	66	151	164	151	102
13	64	0.00	0.00	0.00	0.00	0.00	0.00	65	149	167	152	101
14	56	0.00	0.00	0.00	0.00	0.00	0.00	65	148	173	153	102
15	55	0.00	0.00	0.00	0.00	0.00	0.00	65	145	179	154	103
16	55	0.00	0.00	0.00	0.00	0.00	0.00	65	150	188	155	104
17	55	0.00	0.00	0.00	0.00	0.00	0.00	64	154	195	155	103
18	55	0.00	0.00	0.00	0.00	0.00	0.00	60	153	209	147	103
19	53	0.00	0.00	0.00	0.00	0.00	0.00	58	152	205	143	102
20	52	0.00	0.00	0.00	0.00	0.00	0.00	57	152	204	142	101
21	52	0.00	0.00	0.00	0.00	0.00	0.00	57	152	203	144	101
22	47	0.00	0.00	0.00	0.00	0.00	0.00	56	161	205	145	101
23	44	0.00	0.00	0.00	0.00	0.00	0.00	53	185	204	146	101
24	44	0.00	0.00	0.00	0.00	0.00	0.00	50	187	192	147	99
25	43	0.00	0.00	0.00	0.00	0.00	0.00	49	185	181	147	86
26	43	0.00	0.00	0.00	0.00	0.00	0.00	84	185	181	146	74
27	43	0.00	0.00	0.00	0.00	0.00	0.00	102	185	169	146	69
28	43	0.00	0.00	0.00	0.00	0.00	43	104	185	156	146	69
29	32	0.00	0.00	0.00	---	0.00	66	112	185	156	148	69
30	0.00	0.00	0.00	0.00	---	0.00	59	117	185	158	148	69
31	0.00	---	0.00	0.00	---	0.00	---	117	---	156	149	---
TOTAL	1741.00	0.00	0.00	0.00	0.00	0.00	168.00	2171	4802	5569	4648	3350
MEAN	56.2	0.00	0.00	0.00	0.00	0.00	5.60	70.0	160	180	150	112
MAX	83	0.00	0.00	0.00	0.00	0.00	66	117	187	209	155	153
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49	129	156	142	69
AC-FT	3450	0.00	0.00	0.00	0.00	0.00	333	4310	9520	11050	9220	6640
CAL YR 2004	TOTAL 21243.50	MEAN 58.0	MAX 162	MIN 0.00	AC-FT 42140							
WTR YR 2005	TOTAL 22449.00	MEAN 61.5	MAX 209	MIN 0.00	AC-FT 44530							

e Estimated

SNAKE RIVER MAIN STEM

13060000 SNAKE RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°24'47", long 112°08'06" (revised), (NAD83), in SE¼SW¼ sec.17, T.1 N., R.37 E., Bingham County, Woodville quad., Hydrologic Unit 17040206, on right bank 0.3 mi southeast of Woodville, 2.5 mi north of Shelley, and at mile 787.8.

DRAINAGE AREA.--9,790 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1915 to current year (prior to October 1931, irrigation seasons only).

REVISED RECORDS.--WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 4,599.0 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake (sta 13039000), and Grassy Lake. Initial filling of forebay pool at Gem Power plant 2 mi upstream, occurred during March and April of 1988. Diversions above station for irrigation of about 39,000 acres below and about 637,000 acres above station, of which about 100,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above station into Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,300 ft<sup>3</sup>/s June 6, 1976, gage height, 19.12 ft, result of Teton Dam failure.

Maximum discharge excluding 1976, 47,800 ft<sup>3</sup>/s June 17, 1997, gage height, 16.05 ft; maximum gage height, 16.97 ft, June 17, 1918; minimum, 288 ft<sup>3</sup>/s Nov. 5, 1934, gage height, 2.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1894, reached an estimated discharge of 75,000 ft<sup>3</sup>/s at former station (13059000) at Eagle Rock (now Idaho Falls), 7 mi upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft<sup>3</sup>/s June 16, gage height, 8.93 ft; minimum, 1,340 ft<sup>3</sup>/s Mar. 15, gage height, 4.47 ft, caused by regulation at Gem Lake.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2800	3780	2280	e2300	2150	1960	2160	3710	5140	5730	5570	4250
2	2520	3430	e2200	e2250	2090	2020	2200	3630	5230	5130	5470	4200
3	2400	3250	e2200	e2300	2070	1980	2050	3390	6120	4880	5460	4180
4	2170	3070	e2300	e2250	2020	1950	1990	3840	6350	4950	5480	4310
5	2120	3050	e2200	e2100	2010	1940	2030	4280	6120	5090	5060	4460
6	2160	3010	e2100	2050	2050	1960	2070	4120	6100	4590	4900	4430
7	2290	2970	2190	2020	2070	1950	1840	4360	6540	4320	4750	4500
8	2200	2860	2440	1920	2050	1990	1750	4950	7520	4720	4710	4360
9	2200	2910	2660	e2000	1960	2000	1890	5300	8030	5240	4640	4090
10	2180	2810	2670	e2200	2040	2000	1970	5430	8040	5330	4550	4240
11	2120	2830	2590	e2300	2030	2010	1790	5870	7740	5560	4720	4570
12	2060	2810	2570	e2200	1910	2130	1670	6340	7940	5530	4810	4810
13	2130	2770	2570	e2100	2090	2100	1590	6370	8740	5430	5140	4560
14	2300	2790	2420	e2100	2030	2110	1810	6300	10300	5560	5290	4380
15	2480	2670	2440	e1900	2080	2050	2490	5880	11400	5460	5340	4420
16	2630	2680	2890	e1600	1890	2090	2770	5680	12200	5450	5310	4510
17	2430	2630	2610	e1650	e1550	2000	2540	6280	11400	5870	5320	4480
18	2330	2620	2400	e2100	e1400	2090	3070	7580	10300	5910	4790	4640
19	2510	2590	2350	e2500	e1800	2020	3820	8200	9360	5660	4820	4770
20	2650	2590	2260	e2550	e2200	1980	3920	8320	8640	5250	5030	4480
21	2610	2580	e2100	e2550	e2300	2110	3920	8540	7330	5480	5200	4320
22	2600	2570	e1900	e2450	e2100	2140	3100	8890	6140	5640	5120	4330
23	2590	2410	e1600	e2300	2030	2350	2830	9130	5890	5870	4940	4330
24	2660	2520	e1700	e2200	2010	2280	2690	8850	6070	5770	4450	3950
25	2930	2530	1890	e2150	2010	2290	2930	8190	6150	5640	4130	3990
26	3030	2560	2290	e2200	2010	2230	3690	7300	6030	5540	4000	4160
27	3040	2630	2450	2250	1960	2080	4640	6350	5950	5280	4040	4150
28	3190	2520	2500	2290	1960	2090	4680	5340	5870	5430	3980	3810
29	3480	2090	2590	2290	---	2100	4390	4850	5860	5490	4190	3800
30	4060	e2200	2430	2250	---	2250	4130	5280	5900	5460	4210	3760
31	3910	---	e2400	2210	---	2240	---	5460	---	5350	4210	---
TOTAL	80780	82730	72190	67530	55870	64490	82420	188010	224400	166610	149630	129240
MEAN	2606	2758	2329	2178	1995	2080	2747	6065	7480	5375	4827	4308
MAX	4060	3780	2890	2550	2300	2350	4680	9130	12200	5910	5570	4810
MIN	2060	2090	1600	1600	1400	1940	1590	3390	5140	4320	3980	3760
AC-FT	160200	164100	143200	133900	110800	127900	163500	372900	445100	330500	296800	256300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)

MEAN	3143	3506	3566	3476	3707	4605	7359	12320	13030	7361	4808	3773
MAX	9465	7841	8334	8210	11460	15150	19620	28240	34380	19650	9073	7682
(WY)	1972	1984	1984	1984	1997	1997	1986	1928	1997	1917	1997	1971
MIN	646	827	1584	1515	1599	1401	1559	3261	2432	2213	1342	1119
(WY)	1932	1935	1935	1932	1932	1934	1934	1931	1934	1934	1919	1934

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1915 - 2005

ANNUAL TOTAL	1399640	1363900	
ANNUAL MEAN	3824	3737	5864
HIGHEST ANNUAL MEAN			12330
LOWEST ANNUAL MEAN			1998
HIGHEST DAILY MEAN	14000	May 24	50500
LOWEST DAILY MEAN	1100	Jan 7	350
ANNUAL SEVEN-DAY MINIMUM	1440	Jan 3	412
ANNUAL RUNOFF (AC-FT)	2776000		4248000
10 PERCENT EXCEEDS	5810		12700
50 PERCENT EXCEEDS	2840		4240
90 PERCENT EXCEEDS	1900		2180

e Estimated

## SNAKE RIVER MAIN STEM

## 13062500 SNAKE RIVER AT BLACKFOOT, ID

LOCATION.--Lat 43°11'51", long 112°22'09", (NAD83), in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.33, T.2 S., R.35 E., Bingham County, Blackfoot quad., Hydrologic Unit 17040206, on left bank immediately upstream from old Riverside Highway bridge, 0.25 mi downstream from new U.S. Highway 26 bridge, 1.2 mi west of Blackfoot, and at mile 764.3.

DRAINAGE AREA.--9,950 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1978 to current year. Records for May 1924 to September 1932 at site downstream, published as "Snake River below Blackfoot Bridge, near Blackfoot", are not equivalent because diversions were not included.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,490 ft above NGVD of 1929, from topographic map. May 1924 to Sept. 1932, water-stage recorder at site downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake, Island Park Reservoir, and Grassy Lake, having a combined capacity of 2,570,000 acre-ft. Diversions above station for irrigation of about 750,000 acres. Considerable water leaks above the station into the Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,200 ft<sup>3</sup>/s June 17, 1997, gage height, 13.55 ft; maximum gage height, 14.71 ft, Feb. 7, 1985, result of backwater from ice; minimum, 2.7 ft<sup>3</sup>/s Apr. 29, 1992, gage height, 0.91 ft, caused by irrigation diversions.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,540 ft<sup>3</sup>/s June 17, gage height, 7.45 ft; minimum, 836 ft<sup>3</sup>/s July 7, gage height, 4.31 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	3530	e2100	e2100	e2000	1670	1900	2330	1820	2290	2800	1530
2	1750	3200	e2000	e2100	e1900	1690	1830	2150	1850	1940	2880	1550
3	1570	2980	e2100	e2100	e1900	1720	1810	1810	2450	1670	2690	1510
4	1400	2780	e2200	e2000	e1800	1660	1700	1900	3050	1550	2910	1600
5	e1200	2770	e2100	e2000	e1800	1640	1670	2360	2950	1760	2450	1750
6	1290	2710	e1900	e1900	e1800	1650	1770	2310	2880	1440	2210	1820
7	1390	2670	e2100	e1700	e1800	1660	1600	2310	3220	992	2050	1880
8	1390	2610	e2200	e1800	e1900	1690	1410	2740	4210	1190	1960	1830
9	1400	2600	e2300	e1700	e1800	1690	1440	3230	4950	1680	1960	1600
10	1440	2540	e2500	e1900	e1800	1700	1650	3330	5120	1820	1840	1620
11	1430	2540	e2400	e2000	e1800	1700	1520	3690	4980	2020	1930	1880
12	1400	2550	e2300	e2000	e1800	1750	1350	4290	4860	2070	1900	2330
13	1320	2480	2340	e1900	e1800	1820	1240	4480	5450	2010	2390	2180
14	1520	2490	2190	e1700	e1900	1820	1200	4460	6620	2120	2510	2050
15	1710	2430	2120	e1700	e1800	1750	1930	4100	7690	2100	2640	2110
16	2240	2390	2410	e1600	e1800	1780	2300	3830	8430	2050	2680	2230
17	2180	2380	2470	e1400	e1500	1750	2290	4170	8130	2390	2650	2280
18	1980	2330	2110	e1600	e1400	1750	2360	5260	7160	2580	2400	2480
19	2120	2310	2070	e2200	e1600	1760	2990	6060	6290	2610	2220	2730
20	2310	2330	1970	e2400	e1900	1750	3130	6280	5510	2160	2370	2590
21	2240	2310	e1950	e2400	e2200	1720	3100	6350	4310	2180	2550	2410
22	2340	2310	e1800	e2400	e2100	1860	2570	6770	3020	2420	2510	2450
23	2300	2170	e1400	e2200	1840	2020	2140	6870	2460	2710	2400	2500
24	2370	2220	e1400	e2000	1750	2030	2010	6570	2470	2830	1980	2160
25	2510	2240	e1500	e2000	1740	1970	2030	5770	2620	2690	1580	2160
26	2740	e2200	e1700	e1900	1740	2000	2240	4870	2540	2760	1250	2270
27	2660	e2300	e2200	e2000	1690	1840	2960	3730	2450	2450	1290	2380
28	2860	e2200	e2200	e2100	1670	1830	3130	2460	2280	2540	1250	2100
29	3050	e2000	e2300	e2100	---	1760	3070	1710	2320	2730	1390	1960
30	3520	e1900	e2200	e2100	---	1870	2620	1790	2340	2680	1450	1930
31	3700	---	e2200	e2000	---	1980	---	2140	---	2680	1470	---
TOTAL	63270	74470	64730	61000	50530	55280	62960	120120	124430	67112	66560	61870
MEAN	2041	2482	2088	1968	1805	1783	2099	3875	4148	2165	2147	2062
MAX	3700	3530	2500	2400	2200	2030	3130	6870	8430	2830	2910	2730
MIN	1200	1900	1400	1400	1400	1640	1200	1710	1820	992	1250	1510
AC-FT	125500	147700	128400	121000	100200	109600	124900	238300	246800	133100	132000	122700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2005, BY WATER YEAR (WY)

MEAN	2563	3396	3381	3495	3658	4881	6447	9420	9702	4847	2954	2585
MAX	6093	7926	8271	7995	10910	15280	19450	22080	30360	13150	7400	6099
(WY)	1984	1984	1984	1984	1997	1997	1986	1986	1997	1983	1997	1984
MIN	871	1810	1535	1398	1511	1489	1254	1535	2050	1726	1156	726
(WY)	1982	1982	1989	1989	2002	1988	2003	1988	1988	1985	1981	1981

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1978 - 2005
ANNUAL TOTAL	906364	872332	
ANNUAL MEAN	2476	2390	4783
HIGHEST ANNUAL MEAN			11120
LOWEST ANNUAL MEAN			2019
HIGHEST DAILY MEAN	11600	May 25	8430
LOWEST DAILY MEAN	426	Apr 20	992
ANNUAL SEVEN-DAY MINIMUM	1150	Apr 18	1360
ANNUAL RUNOFF (AC-FT)	1798000		1730000
10 PERCENT EXCEEDS	3370		3220
50 PERCENT EXCEEDS	2180		2110
90 PERCENT EXCEEDS	1500		1560
			3465000
			10900
			2760
			1500

e Estimated

BLACKFOOT RIVER BASIN

13063000 BLACKFOOT RIVER ABOVE RESERVOIR NEAR HENRY, ID

LOCATION.--Lat 42°48'55", long 111°30'24"(revised), (NAD83), in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.14, T.7 S., R.42 E., Caribou County, China Hat quad., Hydrologic Unit 17040207, on right bank 70 ft upstream from railroad bridge, just upstream from the Monsanto Chemical Company "Haul Road", 5 mi upstream from Blackfoot Reservoir flow line, 6 mi south of Henry, 11 mi north of Soda Springs, and at mile 90.8.

DRAINAGE AREA.--350 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to September 1925 (no winter records except water year 1915), August 1967 to October 1982, April 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,259.36 ft above NGVD of 1929 (levels by Topographic Division). Mar. 25, 1914 to Sept. 30, 1914, nonrecording gage at site 3.3 mi downstream at different datum. Oct. 1, 1915 to Sept. 30, 1925, nonrecording gage at site 4 mi downstream at different datum. August 1967 to September 1982 recording gage at present site and datum.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 4,500 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,150 ft<sup>3</sup>/s Apr. 26, 1974, gage height, 8.60 ft; minimum daily, 5.0 ft<sup>3</sup>/s Aug. 14, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 706 ft<sup>3</sup>/s Apr. 29, gage height, 5.22 ft; minimum daily, 28 ft<sup>3</sup>/s Feb. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	e55	e36	e46	e42	e56	e80	370	353	163	90	64
2	48	e48	e38	e44	e38	e50	e78	321	383	163	90	64
3	45	e50	e36	e42	e36	e50	e84	303	356	154	92	63
4	44	e55	e36	e40	e38	e56	e110	295	309	149	92	61
5	44	e50	e40	e36	e42	e52	e130	331	295	146	88	60
6	43	e48	e42	e38	e40	e48	e110	311	293	141	85	59
7	42	e50	e46	e40	e48	e54	e130	315	354	138	83	59
8	42	e50	e50	e40	e46	e58	e160	411	407	135	81	58
9	41	55	e55	e42	e48	e54	e150	518	441	129	79	58
10	41	56	e60	e44	e44	e62	e140	454	376	126	78	58
11	41	58	e60	e42	e38	e58	e140	503	322	127	81	63
12	41	62	e65	e38	e42	e58	e190	571	310	125	80	65
13	41	60	e60	e40	e48	e58	e220	539	379	120	76	66
14	41	58	e60	e36	e48	e52	261	505	356	114	74	65
15	43	55	e55	e32	e34	e60	264	414	301	111	73	64
16	41	54	e55	e42	e28	e66	260	371	279	109	72	62
17	41	52	e55	e48	e30	e68	317	392	268	107	79	61
18	47	52	e48	e46	e34	e62	408	453	258	105	85	63
19	56	e48	e50	e48	e42	e68	449	466	249	105	93	64
20	65	e44	e55	e46	e48	e76	376	415	240	104	89	62
21	98	e40	e50	e44	e46	e78	441	409	219	101	81	61
22	98	e42	e44	e40	e42	e80	372	392	214	99	77	64
23	74	e46	e36	e42	e32	e88	404	376	210	99	75	64
24	76	e46	e40	e40	e34	e100	493	360	211	100	77	69
25	75	e48	e42	e38	e38	e90	583	344	209	101	74	76
26	64	e46	e40	e40	e40	e86	542	328	196	98	70	70
27	60	e42	e44	e44	e44	e82	657	313	184	94	68	65
28	61	e40	e46	e50	e48	e80	649	298	176	93	67	65
29	72	e36	e46	e48	---	e88	661	287	171	91	66	65
30	71	e34	e48	e48	---	e90	538	306	169	91	65	64
31	72	---	e46	e44	---	e88	---	373	---	91	64	---
TOTAL	1718	1480	1484	1308	1138	2116	9397	12044	8488	3629	2444	1902
MEAN	55.4	49.3	47.9	42.2	40.6	68.3	313	389	283	117	78.8	63.4
MAX	98	62	65	50	48	100	661	571	441	163	93	76
MIN	41	34	36	32	28	48	78	287	169	91	64	58
AC-FT	3410	2940	2940	2590	2260	4200	18640	23890	16840	7200	4850	3770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	82.3	78.3	63.0	53.8	56.2
MAX	140	129	99.5	80.2	95.6
(WY)	1972	1972	1972	1973	1972
MIN	27.1	23.9	18.2	23.6	21.5
(WY)	2002	2003	2003	2003	2003

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1914 - 2005
ANNUAL TOTAL	27387	47148	
ANNUAL MEAN	74.8	129	150
HIGHEST ANNUAL MEAN			273
LOWEST ANNUAL MEAN			57.4
HIGHEST DAILY MEAN	357	Apr 9	2060
LOWEST DAILY MEAN	20	Feb 14	5.0
ANNUAL SEVEN-DAY MINIMUM	24	Feb 10	37
ANNUAL RUNOFF (AC-FT)	54320	93520	108800
10 PERCENT EXCEEDS	154	364	361
50 PERCENT EXCEEDS	49	65	82
90 PERCENT EXCEEDS	30	40	36

e Estimated

## BLACKFOOT RIVER BASIN

13063000 BLACKFOOT RIVER ABOVE RESERVOIR NEAR HENRY, ID--Continued

## WATER QUALITY RECORDS

PERIOD OF RECORD.--April 2001 to current year.

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

Date	Time	Sam- pling method, code (82398)	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Copper, water, fltrd, ug/L (01040)
OCT													
11...	0350	50	41	357	--	--	--	--	--	.5	<.04	<.8	E.3
23...	1510	50	72	375	--	--	--	--	--	.5	<.04	<.8	.5
25...	1250	50	74	387	--	--	--	--	--	.5	<.04	<.8	.4
APR													
13...	1500	50	323	352	--	--	--	--	--	.7	<.04	<.8	.6
19...	1845	50	416	300	--	--	--	--	--	.8	E.04	<.8	1.0
22...	2252	50	385	305	--	--	--	--	--	.8	<.04	<.8	.9
24...	1214	50	486	265	--	--	--	--	--	.9	E.03	<.8	.9
27...	1211	50	674	244	--	--	--	--	--	.7	E.03	.12	1.6
29...	1452	50	688	267	--	--	--	--	--	.9	E.02	<.8	.9
30...	0416	50	622	287	--	--	--	--	--	.7	E.02	.05	1.3
30...	2204	50	441	309	--	--	--	--	--	1.0	<.04	<.8	.8
MAY													
01...	2119	50	343	325	--	--	--	--	--	.6	<.04	.10	1.2
02...	2330	50	317	328	--	--	--	--	--	.7	<.04	.07	1.3
04...	0341	50	292	334	--	--	--	--	--	.6	<.04	.06	1.2
05...	0615	50	339	319	--	--	--	--	--	.6	<.04	.06	1.1
06...	1250	50	305	331	8.1	--	9.3	9.3	103	1.0	.04	<.8	.6
06...	1300	70	305	331	8.1	--	9.3	9.3	103	.9	<.04	<.8	.6
06...	1320	10	305	331	8.1	--	9.3	9.3	103	1.0	<.04	<.8	.7
07...	1610	50	319	339	--	--	--	--	--	.6	<.04	.06	1.0
09...	0602	50	517	308	--	--	--	--	--	.9	<.04	<.8	.9
10...	1655	50	445	328	--	--	--	--	--	.6	<.04	.07	1.4
12...	1550	50	581	315	--	--	--	--	--	.8	E.04	<.8	.9
14...	1521	50	510	332	--	--	--	--	--	.6	<.04	.06	1.2
15...	1037	50	411	343	--	--	--	--	--	.6	<.04	.06	1.4
16...	0839	50	372	347	--	--	--	--	--	1.0	<.04	<.8	.6
17...	0656	50	381	343	--	--	--	--	--	.6	<.04	.07	.6
18...	2039	50	481	332	--	--	--	--	--	.8	<.04	E.4	.7
22...	0321	50	396	342	--	--	--	--	--	.7	<.04	.05	1.1
29...	0839	50	288	360	--	--	--	--	--	.8	<.04	<.8	.4
JUN													
02...	0949	50	383	351	--	--	--	--	--	.8	<.04	<.8	.5
07...	1732	50	372	358	--	--	--	--	--	.7	<.04	<.8	.5
14...	1300	50	351	366	8.3	21.4	12.7	9.8	117	.7	<.04	<.8	.4
14...	1310	70	351	366	8.3	21.4	12.7	9.8	117	.7	E.04	<.8	E.4
AUG													
16...	1320	50	72	290	8.3	--	17.8	9.3	123	.6	.06	<.8	.4
16...	1330	70	72	290	8.3	--	17.8	9.3	123	.6	.09	<.8	E.3
16...	1350	10	72	290	8.3	--	17.8	9.3	123	.6	.26	<.8	E.3

&lt; Less than.

E Estimated.

Sampling Method Codes:

- 10 EWI sample
- 50 Automatic point sample
- 70 Manual point sample

## BLACKFOOT RIVER BASIN

13063000 BLACKFOOT RIVER ABOVE RESERVOIR NEAR HENRY, ID--Continued

Date	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
OCT				
11...	.20	.9	.9	1.0
23...	.32	.8	.8	E.6
25...	.39	1.1	.7	.7
APR				
13...	2.16	1.1	1.1	1.1
19...	2.47	3.4	1.1	3.8
22...	2.65	3.7	1.1	1.0
24...	2.23	3.2	1.3	1.5
27...	.83	2.8	1.4	10.7
29...	2.45	5.1	1.1	.9
30...	.89	5.8	1.1	E.3
30...	2.66	7.4	1.2	E.5
MAY				
01...	.71	7.0	1.3	E.4
02...	.63	6.5	1.3	<.6
04...	.67	6.7	1.2	<.6
05...	.61	5.6	1.1	.6
06...	1.20	7.1	1.1	1.1
06...	1.17	7.2	1.2	E.6
06...	1.30	7.5	1.2	E.5
07...	.58	6.2	1.1	E.4
09...	2.95	5.0	1.1	.6
10...	.93	6.1	1.1	E.3
12...	3.19	5.0	1.1	1.2
14...	.92	5.2	1.1	E.3
15...	.72	6.0	1.2	E.4
16...	2.71	6.3	1.1	E.4
17...	.56	5.6	1.1	<.6
18...	2.65	4.9	1.0	E.4
22...	.55	4.2	1.2	<.6
29...	2.47	3.2	1.1	<.6
JUN				
02...	2.66	2.1	1.1	E.3
07...	2.73	1.8	.8	.7
14...	2.54	1.9	.9	E.3
14...	2.58	1.8	1.0	E.4
AUG				
16...	1.33	1.2	1.9	1.0
16...	1.20	1.2	2.1	.7
16...	1.09	1.3	2.0	E.6

< Less than.  
E Estimated.

BLACKFOOT RIVER BASIN

13066000 BLACKFOOT RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°15'46", long 112°02'52", (NAD83), in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.7, T.2 S., R.38 E., Bingham County, Goshen quad., Hydrologic Unit 17040207, on right bank 1.2 mi downstream from Wolverine Creek, 8.5 mi southeast of Shelley, and at mile 30.5.

DRAINAGE AREA.--909 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1909 to November 1926, May 1927 to September 1950 (irrigation seasons only, monthly means, furnished by the Office of Indian Affairs), August 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above NGVD of 1929, from topographic map. Prior to Aug. 19, 1975, at nearby site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Blackfoot Reservoir (sta 13065000) 38.5 mi upstream. Water diverted from reservoir and several other diversions upstream for irrigation. Water diverted at times from Grays Lake near Wayan (Willow Creek basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,220 ft<sup>3</sup>/s May 16, 1987, gage height, 9.10 ft, from flash flood; maximum gage height, 19.97 ft, Nov. 29, 1975, backwater from ice; minimum observed, 15 ft<sup>3</sup>/s Jan. 23, 1919, gage height, 2.83 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 668 ft<sup>3</sup>/s July 14; minimum daily, 50 ft<sup>3</sup>/s Jan. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	93	e60	e70	72	72	88	116	314	597	502	383
2	134	90	e60	e70	e70	66	89	112	314	600	367	421
3	135	90	e60	e75	e65	68	103	112	298	587	356	382
4	135	96	e65	e75	e65	72	117	121	294	572	350	367
5	135	91	e75	e70	e70	69	103	121	294	570	353	347
6	120	91	e75	e70	e65	69	97	118	355	567	355	345
7	107	90	e80	e70	e70	70	114	133	355	562	358	291
8	106	90	e85	e70	e70	74	126	174	197	558	365	288
9	106	90	89	73	e70	80	129	164	146	633	363	291
10	108	90	90	78	e70	85	123	174	134	637	398	298
11	108	91	88	82	e70	84	121	199	129	631	399	298
12	107	90	84	e80	74	89	125	218	144	629	396	297
13	107	90	79	e70	72	94	156	181	135	622	397	266
14	107	89	74	e55	71	80	196	166	129	668	396	259
15	108	89	77	e50	e65	76	180	148	218	666	391	259
16	108	88	77	e55	e60	77	142	153	257	660	395	288
17	108	89	e65	e65	e60	79	144	182	477	650	397	304
18	115	88	e65	e80	e60	75	165	194	656	642	402	302
19	113	89	e70	81	e80	80	151	180	659	552	369	304
20	115	85	e70	81	e75	98	146	169	641	549	361	311
21	118	e80	69	77	e75	89	158	159	637	546	359	293
22	109	e75	e65	73	e75	87	145	151	633	641	354	287
23	109	e75	e60	e80	e70	96	134	146	630	647	357	281
24	115	e85	e65	e80	e70	104	133	140	622	640	322	290
25	106	96	e70	e75	e70	88	131	137	578	640	312	281
26	105	97	e80	e80	e70	87	131	132	583	579	312	278
27	99	e75	e85	e80	e70	85	128	129	574	558	308	227
28	96	e70	85	77	e70	95	133	127	572	553	308	212
29	105	e55	85	75	---	104	143	245	565	559	305	171
30	99	e55	82	74	---	95	124	294	551	508	302	148
31	100	---	77	71	---	88	---	298	---	502	363	---
TOTAL	3483	2562	2311	2262	1944	2575	3975	5093	12091	18525	11272	8769
MEAN	112	85.4	74.5	73.0	69.4	83.1	132	164	403	598	364	292
MAX	140	97	90	82	80	104	196	298	659	668	502	421
MIN	96	55	60	50	60	66	88	112	129	502	302	148
AC-FT	6910	5080	4580	4490	3860	5110	7880	10100	23980	36740	22360	17390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2005, BY WATER YEAR (WY)

MEAN	211	161	129	124	141	192	314	558	742	729	561	396
MAX	626	563	760	783	1065	966	1042	1832	1852	1349	959	827
(WY)	1915	1985	1984	1984	1997	1986	1913	1986	1984	1984	1922	1977
MIN	64.3	49.7	43.0	40.6	45.0	69.1	74.9	132	138	89.1	188	112
(WY)	1993	1993	1993	1993	1993	1992	2003	1991	1925	1910	1993	2003

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1909 - 2005

ANNUAL TOTAL	63772	74862		
ANNUAL MEAN	174	205	359	
HIGHEST ANNUAL MEAN			807	1984
LOWEST ANNUAL MEAN			143	1925
HIGHEST DAILY MEAN	632	Jun 10	668	Jul 14
LOWEST DAILY MEAN	30	Feb 12	50	Jan 15
ANNUAL SEVEN-DAY MINIMUM	44	Feb 8	61	Nov 28
ANNUAL RUNOFF (AC-FT)	126500		148500	259800
10 PERCENT EXCEEDS	424		558	823
50 PERCENT EXCEEDS	109		115	213
90 PERCENT EXCEEDS	55		70	68

e Estimated

## BLACKFOOT RIVER BASIN

## 13068495 BLACKFOOT RIVER BYPASS NEAR BLACKFOOT, ID

LOCATION.--Lat 43°10'15", long 112°23'16", (NAD83), in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.8, T.3 S., R.35 E., Bingham County, Moreland quad., Hydrologic Unit 17040207, on right bank of the Blackfoot River at the flood diversion structure, about 400 ft downstream from Interstate 15 bridges, and 2.5 mi southwest of Blackfoot.

PERIOD OF RECORD.--April 1964 to current year. (Prior to 1978, only combined monthly flows of main river and of bypass channel were published.)

GAGE.--Water-stage recorder. Datum of gage is 4,469.0 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Flow regulated by Blackfoot Reservoir (sta 13065000). Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,460 ft<sup>3</sup>/s May 5, 1974; no flow for long periods.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	15	e0.50	e1.0	e0.00	3.9	0.75	124	0.07	1.00	44	0.00
2	15	10	e1.0	e0.50	e0.00	2.4	2.0	128	2.1	1.9	59	0.00
3	17	10	e1.0	e0.50	e0.00	1.7	2.0	73	20	0.59	13	0.00
4	19	11	e1.0	e0.50	e0.00	2.3	10	39	48	1.7	1.6	0.00
5	38	11	e1.5	e0.50	e0.00	1.5	11	49	53	0.34	1.1	0.50
6	77	9.8	e2.0	e0.50	e0.00	1.5	4.7	41	68	0.00	0.54	0.73
7	134	9.9	e2.5	e0.50	e0.00	1.7	3.9	22	93	0.04	0.00	0.66
8	103	9.6	e3.0	e0.20	e0.00	1.5	12	23	123	0.27	0.00	0.10
9	63	9.9	e3.5	e1.0	e0.00	2.5	18	16	88	0.00	0.00	0.00
10	50	9.2	e4.0	e0.50	e0.00	3.8	17	12	33	1.1	0.00	0.00
11	37	9.2	e5.0	e0.50	e1.0	4.0	14	13	11	2.8	0.48	0.57
12	39	9.4	e4.5	e0.50	1.6	3.6	14	24	10	1.2	0.16	5.0
13	38	9.0	e4.0	e0.50	1.1	6.6	17	42	5.2	0.00	0.00	6.8
14	43	8.4	e2.5	e0.00	1.4	3.6	39	33	4.2	0.19	0.00	22
15	76	8.0	e2.5	e0.00	e0.00	1.3	55	22	0.11	0.11	0.00	6.5
16	91	7.2	e2.0	e0.00	e0.00	0.63	39	19	1.1	0.54	0.00	1.3
17	23	7.3	e1.0	e0.00	e0.00	0.37	28	55	0.60	5.1	0.00	0.00
18	15	7.3	e0.00	e0.00	e1.5	0.21	33	111	0.00	17	0.00	0.93
19	20	7.2	e0.50	e0.00	e3.0	0.00	41	150	0.00	17	0.27	2.2
20	21	7.0	e1.0	e0.00	6.2	2.8	36	127	6.7	2.8	0.00	0.67
21	45	e1.0	e0.50	e0.00	3.5	5.6	36	93	2.7	1.9	0.00	0.00
22	39	e0.50	e0.00	e0.00	2.8	3.5	47	57	1.1	1.7	0.21	0.58
23	26	1.9	e0.00	e0.00	2.9	4.9	43	25	0.32	7.2	0.45	0.40
24	32	11	e0.00	e0.00	1.7	10	38	13	3.0	35	0.17	0.50
25	30	9.4	e0.00	e0.00	1.8	7.1	27	4.1	3.1	33	0.00	0.69
26	31	11	e0.00	e0.50	2.0	2.7	12	2.9	2.3	29	0.00	0.71
27	28	e3.5	e1.0	e1.0	2.3	1.7	11	1.8	0.09	7.8	0.00	0.78
28	24	e0.35	e3.0	e1.0	2.5	2.2	31	0.07	0.00	1.5	0.00	0.74
29	32	e0.00	e4.5	e0.50	---	7.7	47	0.00	0.00	1.4	0.00	0.44
30	31	e1.0	e4.0	e0.00	---	7.3	77	0.00	0.00	3.8	0.00	0.00
31	19	---	e3.0	e0.00	---	4.4	---	1.6	---	15	0.00	---
TOTAL	1263.5	225.05	59.00	10.20	35.30	103.01	766.35	1321.47	579.69	190.98	120.98	52.80
MEAN	40.8	7.50	1.90	0.33	1.26	3.32	25.5	42.6	19.3	6.16	3.90	1.76
MAX	134	15	5.0	1.0	6.2	10	77	150	123	35	59	22
MIN	7.5	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
AC-FT	2510	446	117	20	70	204	1520	2620	1150	379	240	105

CAL YR 2004 TOTAL 3837.91 MEAN 10.5 MAX 254 MIN 0.00 AC-FT 7610  
WTR YR 2005 TOTAL 4728.33 MEAN 13.0 MAX 150 MIN 0.00 AC-FT 9380

e Estimated



## BLACKFOOT RIVER BASIN

## 13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'50", long 112°28'36", (NAD83), near E<sup>1</sup>/<sub>4</sub> corner, sec.28, T.3 S., R.34 E., Bingham County, Moreland quad., Hydrologic Unit 17040207, Fort Hall Indian Reservation, on left bank 11 ft upstream from highway bridge, 8 mi southwest of Blackfoot, and at mile 3.4.

DRAINAGE AREA.--1,295 mi<sup>2</sup>, including that of Sand Creek, flow of which is diverted to Blackfoot River through the Idaho Canal.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1913 to current year (prior to October 1931, summer months only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above NGVD of 1929, from river-profile survey. Prior to May 8, 1926, nonrecording gage, and May 8, 1926 to June 25, 1937, water-stage recorder at site 0.5 mi upstream at different datum. June 26, 1937 to Aug. 16, 1963, water-stage recorder at site 175 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges and discharges below 10 ft<sup>3</sup>/s, which are poor. Station equipment includes satellite telemetry. Flow regulated by Blackfoot Reservoir. Diversions above station for irrigation of about 28,000 acres below and about 32,000 acres above station, of which about 900 acres are irrigated by withdrawals from ground water (1966 determination). Part of flow is supplied by waste water from Snake River canals. Diversions to bypass channel 5.5 mi upstream from station began in April 1964. For records and statistics of combined discharges, see station 13068501.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft<sup>3</sup>/s Feb. 11, 1962, gage height, 7.68 ft, prior to Blackfoot River Bypass channel diversion.

Since 1964, river only: maximum discharge, 740 ft<sup>3</sup>/s June 12, 1984, gage height, 5.53 ft; maximum gage height, 6.77 ft, June 16, 1997, (backwater from the Snake River); no flow at times some years.

Combined flow since 1913: maximum discharge, 2,130 ft<sup>3</sup>/s May 5, 1974; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--River only: maximum daily discharge, 279 ft<sup>3</sup>/s Aug. 2; no flow July 16, Aug. 21, Sept. 4.

Combined flow with Bypass channel: maximum daily discharge, 375 ft<sup>3</sup>/s May 19; no flow Aug. 21, Sept. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	81	e50	e60	81	78	77	197	3.3	15	230	3.5
2	73	73	e50	e60	82	89	80	199	9.0	6.9	279	2.8
3	80	72	e50	e65	e70	82	75	142	32	6.9	e107	0.74
4	79	73	e55	e60	e65	84	89	100	52	11	e44	0.00
5	94	74	e65	e55	e65	87	98	115	47	1.5	e33	0.98
6	133	70	e65	e55	e60	78	89	105	88	0.14	51	15
7	174	70	e70	e55	e65	78	83	60	134	0.10	3.6	20
8	165	68	e75	e55	e65	78	91	38	185	3.4	0.41	17
9	132	66	e80	e60	e65	80	101	55	190	0.56	2.9	7.6
10	117	66	e80	e65	e65	85	107	53	91	6.4	7.2	13
11	102	66	79	e70	e65	89	103	26	41	36	14	26
12	111	66	78	e65	e65	86	100	38	20	5.1	30	73
13	111	65	74	e55	e80	89	100	83	35	2.1	1.5	135
14	115	65	67	e40	e80	96	120	98	17	2.0	3.8	163
15	138	64	65	e35	e75	82	147	90	19	5.6	5.3	162
16	168	63	66	e40	e65	78	140	77	13	0.00	7.3	71
17	96	63	52	e50	e60	77	117	76	12	20	2.5	32
18	76	63	e55	e60	e70	79	115	170	0.89	68	6.2	28
19	80	63	e60	e70	e80	71	132	225	0.62	85	21	109
20	89	64	e60	e75	e85	79	125	228	9.2	63	1.9	66
21	63	e55	e60	e75	e85	93	134	198	12	26	0.00	20
22	118	e50	e55	e70	e85	85	108	171	15	33	12	35
23	95	49	e50	e70	e80	87	137	113	15	44	5.1	43
24	103	69	e55	e70	78	96	126	80	15	134	4.3	40
25	108	76	e60	e65	77	101	122	35	36	179	0.23	35
26	106	74	e65	e75	77	85	86	44	8.5	184	1.7	73
27	97	68	e75	e80	74	81	75	16	9.0	114	0.77	81
28	89	e60	e75	e85	75	80	101	5.4	17	89	0.09	81
29	95	e40	e75	e85	---	86	123	3.8	16	26	2.9	76
30	101	e42	e70	e85	---	96	157	16	12	64	10	39
31	87	---	e65	86	---	88	---	16	---	183	2.6	---
TOTAL	3240	1938	2001	1996	2039	2623	3258	2873.2	1154.51	1414.70	891.30	1468.62
MEAN	105	64.6	64.5	64.4	72.8	84.6	109	92.7	38.5	45.6	28.8	49.0
MAX	174	81	80	86	85	101	157	228	190	184	279	163
MIN	45	40	50	35	60	71	75	3.8	0.62	0.00	0.00	0.00
AC-FT	6430	3840	3970	3960	4040	5200	6460	5700	2290	2810	1770	2910

BLACKFOOT RIVER BASIN  
13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	196	167	109	104	116	150	189	221	173	111	124	125
MAX	314	318	314	302	345	386	428	587	469	288	323	263
(WY)	1977	1984	1984	1985	1997	1986	1986	1983	1984	1984	1984	1971
MIN	37.2	45.1	22.3	20.1	21.9	57.5	45.1	34.7	19.9	1.21	0.26	1.11
(WY)	1993	1993	1993	1993	1993	1967	2003	2003	2003	2003	1992	1992

SUMMARY STATISTICS                      FOR 2004 CALENDAR YEAR                      FOR 2005 WATER YEAR                      <sup>a</sup> WATER YEARS 1964 - 2005

ANNUAL TOTAL	23119.25			24897.33					
ANNUAL MEAN	63.2			68.2			149		
HIGHEST ANNUAL MEAN							298                      1984		
LOWEST ANNUAL MEAN							48.7                      1992		
HIGHEST DAILY MEAN	288	Jun	13	279	Aug	2	733	Jun	12                      1984
LOWEST DAILY MEAN	0.00	May	3	0.00	Jul	16	0.00	Jun	2                      1977
ANNUAL SEVEN-DAY MINIMUM	0.15	Sep	2	2.2	Aug	23	0.00	Aug	10                      1992
ANNUAL RUNOFF (AC-FT)	45860			49380			107900		
10 PERCENT EXCEEDS	117			121			296		
50 PERCENT EXCEEDS	62			70			120		
90 PERCENT EXCEEDS	5.1			5.5			40		

a Monthly and Summary Statistics for period since the diversion of water began into Blackfoot River Bypass channel (Apr. 1964).

e Estimated

BLACKFOOT RIVER BASIN

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966, 1968-1970, 1972-1981, July 1989 to November 2002, July to September 2003, April to September 2004, April to September 2005.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to September 1996, May to September 1999, April to September 2001, December 2001 to November 2002, April 2004 to current year.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 34.1 °C July 12, 2002; minimum, 0.0 °C many days during winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 29.8 °C July 12-13; minimum, 0.0 °C many days during winter months.

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

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, uS/cm wat unfltrd (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity white light, det ang 90+/-30 corrcrtd (63676)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	E coli, modif. m-TEC, water, col/100 mL (90902)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, unfltrd, mg/L as N (00625)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
APR	14...	130	530	8.4	5.7	7.3	47	10.3	100	270	.013	.77	E.011
MAY	10...	52	341	8.9	13.8	13.7	5.9	12.2	140	55	.011	.28	<.016
JUN	09...	138	323	9.0	17.2	16.3	8.3	11.9	143	25	<.010	.25	<.016
JUL	11...	36	302	8.9	30.0	25.4	2.7	14.7	210	110	E.005	.49	<.016
AUG	17...	5.0	274	9.2	29.4	24.6	3.6	5.2	74	190	<.010	.37	<.016
SEP	14...	173	343	9.0	22.1	15.2	4.3	11.6	136	130	<.010	.48	<.016

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Sulfate, water, fltrd, percent (00932)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, water, unfltrd, end pt, mg/L (00440)	Carbonate, water, unfltrd, end pt, mg/L (00445)	ANC, water, unfltrd, end pt, mg/L as CaCO3 (00410)	Sulfate, water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	
APR	14...	.006	.151	--	--	--	--	--	--	--	--	--	--	
MAY	10...	E.004	.031	--	--	--	--	--	--	--	--	--	--	
JUN	09...	E.003	.034	--	--	--	--	--	--	--	--	--	--	
JUL	11...	<.006	.036	--	--	--	--	--	--	--	--	--	--	
AUG	17...	E.003	.017	--	--	--	--	--	--	--	--	--	--	
SEP	14...	<.006	.065	170	45.1	13.5	10.8	12	2.34	151	7	135	31.6	8.84

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Suspended sediment concentration, mg/L (80154)
APR	14...	--	95
MAY	10...	--	8
JUN	09...	--	16
JUL	11...	--	2
AUG	17...	--	2
SEP	14...	.6	39

< Less than.  
E Estimated.

BLACKFOOT RIVER BASIN  
13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

Temperature, water, degrees Celsius  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	16.4	13.0	4.9	2.6	0.1	0.1	0.3	0.0	3.0	0.3	7.0	2.1
2	16.8	12.4	5.3	2.3	0.1	0.0	0.2	0.1	2.9	0.7	7.1	1.7
3	16.8	12.2	5.1	2.8	0.1	0.0	0.1	0.1	2.5	0.1	5.0	2.3
4	16.1	12.2	6.3	3.4	0.1	0.0	0.1	0.1	1.7	0.1	6.8	2.2
5	16.1	11.9	6.8	3.7	0.1	0.0	0.1	0.1	1.2	0.1	7.6	1.7
6	15.5	11.1	7.1	3.9	---	---	0.1	0.1	0.6	0.1	9.0	3.3
7	15.3	12.1	7.0	3.9	---	---	0.2	0.1	2.3	0.0	8.1	4.1
8	16.3	12.5	4.9	4.0	---	---	0.1	0.1	1.6	0.1	10.2	4.0
9	15.0	12.2	6.8	3.7	0.1	0.0	0.1	0.0	1.6	0.1	11.5	5.3
10	13.3	11.8	6.8	4.9	3.9	0.0	0.1	0.1	2.3	0.0	12.3	6.5
11	13.3	10.4	6.5	5.3	3.9	2.4	0.1	0.1	0.6	0.1	12.2	6.3
12	13.3	9.7	7.2	4.6	3.8	2.4	0.1	0.1	2.1	0.3	10.9	6.3
13	13.3	9.3	6.3	4.8	3.1	1.5	0.1	0.1	2.9	1.0	9.3	4.1
14	13.3	9.3	5.6	4.3	2.7	0.7	0.2	0.1	2.6	0.3	7.8	2.8
15	12.4	9.6	6.3	3.8	3.1	1.7	0.2	0.1	2.0	0.1	6.5	2.7
16	12.4	9.9	5.0	3.2	3.3	1.2	0.2	0.1	0.6	0.1	5.8	2.6
17	12.2	10.1	5.3	3.4	1.7	0.3	0.1	0.1	0.2	0.1	7.5	2.5
18	10.5	8.1	4.6	2.7	1.0	0.1	0.1	0.0	0.2	0.1	7.1	2.6
19	10.1	7.7	4.0	2.8	1.1	0.1	0.1	0.0	0.2	0.1	8.4	4.5
20	9.6	8.7	3.4	1.7	1.7	0.0	0.1	0.0	0.2	0.1	9.1	5.3
21	9.9	7.6	2.2	0.0	0.3	0.0	0.1	0.1	5.0	0.1	8.5	4.6
22	8.1	6.5	1.6	0.0	0.2	0.1	0.2	0.0	5.1	1.0	6.0	4.3
23	7.4	6.7	2.5	0.5	0.2	0.1	0.2	0.0	5.4	0.3	6.5	4.5
24	6.7	5.6	2.0	1.1	0.2	0.1	0.2	0.0	4.8	0.2	7.2	3.1
25	7.4	4.9	2.9	2.0	0.2	0.1	0.2	0.0	5.1	0.2	7.0	3.2
26	7.6	5.7	2.9	1.1	0.2	0.0	0.2	0.0	5.2	0.4	9.2	2.6
27	8.8	6.7	1.3	0.4	0.1	0.0	0.1	0.0	5.5	0.5	9.9	4.9
28	8.1	6.8	0.4	0.0	0.1	0.0	0.1	0.0	4.2	0.7	9.0	5.4
29	7.1	5.7	0.2	0.0	0.1	0.1	0.4	0.1	---	---	5.5	3.5
30	6.3	5.6	0.1	0.0	1.7	0.1	2.9	0.4	---	---	6.2	2.2
31	5.9	3.8	---	---	1.3	0.3	3.1	1.5	---	---	8.7	1.5
MONTH	16.8	3.8	7.2	0.0	---	---	3.1	0.0	5.5	0.0	12.3	1.5

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	10.0	3.2	16.0	10.3	18.3	13.4	25.2	18.9	24.5	20.7	22.5	14.9
2	13.1	5.4	16.9	11.1	19.4	10.3	24.6	18.8	24.1	21.2	21.9	15.8
3	11.6	8.0	15.7	12.0	19.4	13.4	24.5	16.1	---	---	25.3	16.4
4	10.0	7.0	17.3	10.9	21.5	14.1	24.8	16.8	---	---	25.3	16.9
5	11.4	4.8	17.2	11.9	19.6	14.1	27.4	17.4	---	---	22.6	15.3
6	14.5	6.4	18.7	12.5	16.6	14.0	28.6	18.9	25.9	20.3	21.4	15.9
7	12.2	9.5	15.5	12.3	14.7	12.2	27.8	20.1	27.0	20.6	21.3	15.9
8	11.7	8.3	18.4	11.3	14.5	10.6	27.5	20.1	26.8	20.7	22.0	16.0
9	11.0	6.4	17.1	13.3	17.8	10.7	26.9	19.5	27.0	20.8	21.5	17.0
10	12.0	6.5	15.8	11.6	20.6	11.4	24.5	19.5	26.6	22.0	17.1	13.3
11	13.3	6.9	13.5	10.8	21.2	13.8	26.0	18.8	23.6	20.0	17.8	13.8
12	14.4	7.8	12.8	10.7	19.1	14.3	29.8	19.7	23.1	18.4	15.7	13.6
13	15.2	9.1	17.6	9.3	21.1	12.4	29.8	22.0	25.7	16.2	15.4	12.6
14	11.1	6.2	19.5	11.4	22.7	14.2	28.0	20.6	23.6	17.6	15.8	12.4
15	11.9	6.6	18.1	13.4	23.4	16.4	29.4	21.2	23.6	16.5	16.8	12.4
16	14.4	7.7	17.3	13.2	23.1	17.6	27.5	21.6	21.3	18.1	17.1	12.7
17	15.9	9.5	15.9	10.7	22.6	16.4	25.4	20.2	24.5	17.4	15.5	13.5
18	13.4	8.5	16.0	11.9	24.9	14.3	24.5	19.5	21.5	18.8	17.0	11.2
19	11.9	6.8	18.5	13.1	26.0	15.4	24.5	19.1	22.3	16.7	16.9	12.1
20	11.8	7.9	20.7	15.3	25.0	17.5	26.1	19.7	27.3	16.1	17.9	12.5
21	14.3	8.6	20.1	15.3	22.6	18.8	26.5	20.0	28.4	17.7	16.9	14.7
22	15.4	8.1	21.9	14.8	25.6	18.9	26.2	21.6	22.9	19.7	18.2	12.7
23	15.1	10.3	21.8	15.4	25.8	19.3	25.4	21.2	24.1	17.7	18.3	14.3
24	13.4	10.7	20.9	15.0	26.4	20.0	24.8	20.1	22.4	16.5	16.5	13.3
25	17.6	11.0	22.1	13.7	24.6	19.0	23.7	20.5	22.7	13.1	15.2	11.7
26	19.4	12.3	22.1	14.3	25.1	18.4	23.7	19.1	24.4	15.2	15.9	10.7
27	19.5	13.7	23.7	14.0	21.5	17.3	23.9	18.3	26.2	15.4	14.9	12.2
28	16.9	11.0	26.2	15.2	21.2	18.2	24.9	18.2	25.5	16.8	15.9	11.3
29	15.3	9.4	21.7	17.7	23.6	17.4	23.0	20.1	23.4	16.0	15.6	10.7
30	15.4	9.9	22.0	15.0	24.6	18.0	23.6	19.7	19.5	15.8	16.2	10.9
31	---	---	22.7	16.3	---	---	24.3	20.1	21.4	11.9	---	---
MONTH	19.5	3.2	26.2	9.3	26.4	10.3	29.8	16.1	---	---	25.3	10.7

BLACKFOOT RIVER BASIN

13068501 COMBINATION BLACKFOOT RIVER AND BYPASS CHANNEL NEAR BLACKFOOT, ID

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	96	e50	e61	e81	82	78	321	3.4	16	274	3.5
2	88	83	e51	e60	e82	91	82	327	11	8.8	338	2.8
3	97	82	e51	e66	e70	84	77	215	52	7.5	120	0.74
4	98	84	e56	e60	e65	86	99	139	100	13	46	0.00
5	132	85	e66	e56	e65	88	109	164	100	1.8	34	1.5
6	210	80	e67	e56	e60	80	94	146	156	0.14	52	16
7	308	80	e72	e56	e65	80	87	82	227	0.14	3.6	21
8	268	78	e78	e55	e65	80	103	61	308	3.7	0.41	17
9	195	76	e84	e61	e65	82	119	71	278	0.56	2.9	7.6
10	167	75	e84	e66	e65	89	124	65	124	7.5	7.2	13
11	139	75	e84	e70	e66	93	117	39	52	39	14	27
12	150	75	e82	e66	e67	90	114	62	30	6.3	30	78
13	149	74	e78	e56	e81	96	117	125	40	2.1	1.5	142
14	158	73	e70	e40	e81	100	159	131	21	2.2	3.8	185
15	214	72	e68	e35	e75	83	202	112	19	5.7	5.3	168
16	259	70	e68	e40	e65	79	179	96	14	0.54	7.3	72
17	119	70	e53	e50	e60	77	145	131	13	25	2.5	32
18	91	70	e55	e60	e72	79	148	281	0.89	85	6.2	29
19	100	70	e60	e70	e83	71	173	375	0.62	102	21	111
20	110	71	e61	e75	e91	82	161	355	16	66	1.9	67
21	108	e56	e60	e75	e88	99	170	291	15	28	0.00	20
22	157	e50	e55	e70	e88	88	155	228	16	35	12	36
23	121	51	e50	e70	e83	92	180	138	15	51	5.5	43
24	135	80	e55	e70	80	106	164	93	18	169	4.5	40
25	138	85	e60	e65	79	108	149	39	39	212	0.23	36
26	137	85	e65	e76	79	88	98	47	11	213	1.7	74
27	125	e72	e76	e81	76	83	86	18	9.1	122	0.77	82
28	113	e60	e78	e86	78	82	132	5.5	17	90	0.09	82
29	127	e40	e80	e86	---	94	170	3.8	16	27	2.9	76
30	132	e43	e74	e85	---	103	234	16	12	68	10	39
31	106	---	e68	e86	---	92	---	18	---	198	2.6	---
TOTAL	4503	2161	2059	2009	2075	2727	4025	4195.3	1734.01	1605.98	1011.90	1522.14
MEAN	145	72.0	66.4	64.8	74.1	88.0	134	135	57.8	51.8	32.6	50.7
MAX	308	96	84	86	91	108	234	375	308	213	338	185
MIN	52	40	50	35	60	71	77	3.8	0.62	0.14	0.00	0.00
AC-FT	8930	4290	4080	3980	4120	5410	7980	8320	3440	3190	2010	3020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

	2004	2005	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
MEAN	269	265	159	135	155	204	314	365	229	117	143	136													
MAX	674	789	825	793	937	956	1085	1579	1411	635	834	444													
(WY)	1984	1984	1984	1984	1997	1986	1986	1983	1984	1984	1984	1916													
MIN	0.00	27.0	22.3	17.7	21.6	31.4	47.7	0.77	0.00	0.00	0.00	0.00													
(WY)	1935	1935	1993	1932	1932	1932	2003	1934	1934	1934	1934	1934													

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1913 - 2005

ANNUAL TOTAL	26953.25	29628.33		
ANNUAL MEAN	73.6	81.2		
HIGHEST ANNUAL MEAN			210	
LOWEST ANNUAL MEAN			751	1984
HIGHEST DAILY MEAN			41.1	1935
LOWEST DAILY MEAN	542	Jun 13	375	May 19
ANNUAL SEVEN-DAY MINIMUM	0.00	May 3	0.00	Aug 21
ANNUAL RUNOFF (AC-FT)	0.15	Sep 2	2.2	Aug 23
10 PERCENT EXCEEDS	53460		58770	152000
50 PERCENT EXCEEDS	150		160	500
90 PERCENT EXCEEDS	64		74	128
90 PERCENT EXCEEDS	5.1		6.0	18

e Estimated

SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'31", long 112°31'08"(revised), (NAD83), in SE¼SE¼ sec.30, T.3 S., R.34 E., Bingham County, Rockford quad., Hydrologic Unit 17040206, on right bank 0.3 mi downstream from highway bridge, 0.7 mi downstream from Blackfoot River, 10 mi southwest of Blackfoot, and at mile 750.1.

DRAINAGE AREA.--11,310 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--June 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "at Clough ranch, near Blackfoot", 1924-45.

GAGE.--Water-stage recorder. Datum of gage is 4,399.83 ft above NGVD of 1929. Prior to July 6, 1913, nonrecording gages; July 6, 1913 to Aug. 19, 1962, water-stage recorder at site 0.1 mi upstream at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake (see sta 13039000), Grassy Lake, Island Park Reservoir, and Blackfoot Reservoir (see sta 13065000), having a combined capacity of 2,883,000 acre-ft. Diversions above station for irrigation of about 121,000 acres below and about 832,000 acres above station, 155,000 acres of which are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above the station into the Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,500 ft<sup>3</sup>/s June 7, 1976, gage height, 15.44 ft, result of Teton Dam failure.

Maximum discharge excluding 1976, 46,200 ft<sup>3</sup>/s June 18, 1918, gage height, 14.80 ft, site and datum then in use; minimum, 111 ft<sup>3</sup>/s Nov. 10, 1934, gage height, 0.80 ft, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Late in summer of 1905 there was no flow in Snake River for a distance of 10 mi in vicinity of Blackfoot. Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot was 39 ft<sup>3</sup>/s, supplied by ground-water inflow a short distance upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,060 ft<sup>3</sup>/s June 17, gage height, 6.14 ft; minimum, 509 ft<sup>3</sup>/s July 8, gage height, 1.03 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	3230	1900	1950	1800	1590	1790	2490	1710	2040	2600	1280
2	1710	3010	1840	1960	1740	1600	1710	2240	1660	1720	2780	1310
3	1530	2740	1950	1940	1700	1640	1750	1860	2040	1370	2520	1280
4	1420	2560	1990	1880	1680	1580	1650	1720	2810	1190	2670	1310
5	1220	2530	1930	1850	1640	1570	1600	2130	2810	1340	2260	1440
6	1280	2460	1720	1780	1690	1560	1670	2190	2780	1080	1970	1530
7	1400	2440	1870	1510	1670	1580	1570	2050	3100	728	1800	1570
8	1470	2390	2000	1630	1750	1590	1420	2370	4100	664	1690	1570
9	1390	2340	2190	1590	1620	1600	1400	2930	4990	1100	1700	1400
10	1390	2320	2310	1780	1640	1600	1560	3090	5170	1440	1600	1350
11	1400	2280	2180	1870	1640	1600	1510	3370	5040	1650	1600	1560
12	1400	2310	2160	1810	1620	1630	1370	4000	4760	1740	1600	1990
13	1310	2250	2140	1760	1690	1700	1280	4400	5280	1670	1950	2000
14	1430	2240	2050	1560	1750	1690	1260	4400	6220	1790	2090	1890
15	1570	2220	1980	1560	1670	1650	1690	4110	7450	1780	2260	1890
16	2090	2150	2130	1390	1680	1670	2120	3820	8260	1710	2310	1920
17	2030	2170	2350	1290	1320	1650	2160	4020	8420	1980	2300	1970
18	1830	2100	1990	1430	1260	1650	2090	5150	7450	2250	2170	2130
19	1880	2100	1930	2060	1440	1640	2820	6250	6470	2360	1940	2390
20	2080	2120	1870	2280	1740	1640	3040	6600	5790	2020	1990	2330
21	2030	2080	1870	2220	2120	1610	2960	6570	4620	1820	2130	2150
22	2170	2070	1700	2290	1990	1740	2630	6870	3160	2070	2160	2200
23	2120	2020	1280	2050	1770	1850	2100	7050	2310	2370	2080	2230
24	2150	1980	1320	1850	1650	1910	1970	6830	2180	2620	1790	2040
25	2250	2070	1400	1800	1640	1850	1900	6010	2380	2480	1390	1960
26	2470	2060	1640	1770	1640	1870	1980	5140	2310	2610	1120	2050
27	2410	2130	2060	1810	1610	1760	2610	3910	2200	2230	1080	2170
28	2590	2050	2060	1940	1590	1700	3100	2530	2040	2240	1050	2010
29	2750	1870	2170	1940	---	1680	3050	1690	2050	2400	1130	1810
30	3070	1710	2120	1930	---	1750	2650	1560	2040	2400	1200	1750
31	3430	---	2070	1890	---	1850	---	1880	---	2520	1240	---
TOTAL	59100	68000	60170	56370	46750	52000	60410	119230	121600	57382	58170	54480
MEAN	1906	2267	1941	1818	1670	1677	2014	3846	4053	1851	1876	1816
MAX	3430	3230	2350	2290	2120	1910	3100	7050	8420	2620	2780	2390
MIN	1220	1710	1280	1290	1260	1560	1260	1560	1660	664	1050	1280
AC-FT	117200	134900	119300	111800	92730	103100	119800	236500	241200	113800	115400	108100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2005, BY WATER YEAR (WY)

	MEAN	2754	3534	3355	3099	3334	4133	6646	10330	10790	4564	2554	2219
MAX	9682	7852	8227	8026	11810	15410	19200	25360	31130	18480	7965	9173	
(WY)	1972	1984	1984	1997	1997	1971	1928	1997	1917	1912	1912	1912	
MIN	165	175	1125	975	1028	1192	330	395	325	214	193	147	
(WY)	1935	1935	1935	1935	1932	1934	1934	1934	1931	1931	1924	1934	

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1910 - 2005
ANNUAL TOTAL	813996	813662	
ANNUAL MEAN	2224	2229	4757
HIGHEST ANNUAL MEAN			11350
LOWEST ANNUAL MEAN			983
HIGHEST DAILY MEAN	10400	8420	46200
LOWEST DAILY MEAN	425	664	111
ANNUAL SEVEN-DAY MINIMUM	1020	1070	116
ANNUAL RUNOFF (AC-FT)	1615000	1614000	3446000
10 PERCENT EXCEEDS	2950	3090	11000
50 PERCENT EXCEEDS	1940	1940	3130
90 PERCENT EXCEEDS	1400	1400	1110

PORTNEUF RIVER BASIN

13073000 PORTNEUF RIVER AT TOPAZ, ID

LOCATION.--Lat 42°37'29"(revised), long 112°05'17", (NAD83), in SE<sup>1</sup>/<sub>4</sub> sec.23, T.9 S., R.37 E., Bannock County, Haystack Mountain quad., Hydrologic Unit 17040208, on right bank 200 ft upstream from Bob Smith Creek, 800 ft downstream from Topaz siding, 1.5 mi upstream from diversion dam of Portneuf-Marsh Valley Canal Co., 4 mi west of Lava Hot Springs, and at mile 55.5.

DRAINAGE AREA.--570 mi<sup>2</sup>, approximately (includes that of Bob Smith Creek). Mean elevation, 6,080 ft.

PERIOD OF RECORD.--January 1913 to September 1915, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1920-22, 1924-25(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,918.00 ft above NGVD of 1929. Prior to July 20, 1919, nonrecording gage at site 0.3 mi downstream at datum 3.0 ft lower. July 20, 1919 to June 22, 1954, nonrecording gage at site 0.3 mi downstream at datum 2.00 ft lower than present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Chesterfield Reservoir, capacity 24,000 acre-ft, and Twenty-Four Mile Reservoir on Twenty-Four Mile Creek, capacity 685 acre-ft. Diversions above station for irrigation of about 29,000 acres, of which about 7,400 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,120 ft<sup>3</sup>/s Feb. 1, 1963, gage height, 8.22 ft, result of highway fill failure 2 mi upstream.

Maximum discharge excluding highway fill failure events of 1962 and 1963, 1,740 ft<sup>3</sup>/s Dec. 23, 1964, gage height, 6.00 ft; minimum, 33 ft<sup>3</sup>/s Sept. 25, 1994, gage height, 2.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 329 ft<sup>3</sup>/s May 17, gage height, 3.48 ft; minimum daily, 58 ft<sup>3</sup>/s Oct. 3-6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	89	97	99	95	93	151	194	259	204	159	92
2	59	99	97	97	91	93	153	187	242	217	164	96
3	58	101	96	98	92	94	159	183	226	215	170	95
4	58	100	96	97	93	95	166	188	219	223	150	94
5	58	97	96	96	94	96	161	199	214	226	144	95
6	58	96	96	97	92	96	153	215	264	235	146	96
7	59	96	97	96	94	97	151	243	274	236	147	94
8	59	96	100	98	92	99	155	250	273	240	144	92
9	59	95	105	101	94	102	152	259	254	235	143	90
10	60	95	103	99	92	105	148	277	237	233	149	88
11	61	97	104	99	90	108	144	293	227	233	158	87
12	60	100	102	96	95	115	143	283	243	231	157	85
13	59	101	101	95	94	126	150	272	229	231	156	84
14	59	99	105	92	95	119	169	254	231	251	158	83
15	61	99	102	92	91	127	158	243	227	238	168	82
16	61	98	102	95	88	128	152	251	219	236	173	80
17	61	98	100	97	89	137	154	305	220	230	177	71
18	66	96	99	95	90	144	169	294	217	226	178	68
19	72	96	98	95	96	152	155	276	209	227	177	66
20	84	94	98	95	95	227	170	269	205	227	176	68
21	81	92	95	95	93	234	166	278	196	226	157	66
22	71	92	94	94	93	205	165	284	182	225	102	71
23	72	95	94	93	91	218	162	276	178	225	95	72
24	76	95	94	93	91	226	167	273	184	215	90	82
25	72	97	95	93	92	180	169	262	172	209	85	77
26	70	98	95	94	92	164	180	249	171	201	96	74
27	69	96	95	96	92	167	192	237	171	196	94	74
28	77	96	95	96	92	181	256	227	169	190	95	74
29	82	90	97	96	---	184	230	225	203	180	94	74
30	81	93	103	96	---	167	209	251	202	171	93	74
31	85	---	103	93	---	156	---	235	---	156	92	---
TOTAL	2069	2886	3054	2968	2588	4435	5009	7732	6517	6788	4287	2444
MEAN	66.7	96.2	98.5	95.7	92.4	143	167	249	217	219	138	81.5
MAX	85	101	105	101	96	234	256	305	274	251	178	96
MIN	58	89	94	92	88	93	143	183	169	156	85	66
AC-FT	4100	5720	6060	5890	5130	8800	9940	15340	12930	13460	8500	4850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

	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	2004	2005
MEAN	138	151	151	151	168	203	261	341	265	200	172	145																																																																																	
MAX	284	283	279	271	484	475	589	875	735	347	331	361																																																																																	
(WY)	1985	1985	1985	1985	1962	1972	1986	1984	1984	1984	1986	1986																																																																																	
MIN	51.1	84.9	91.1	87.4	87.5	116	103	127	97.4	77.4	74.5	61.2																																																																																	
(WY)	2004	1993	2004	2004	2004	1964	1992	1961	1934	2003	1992	2003																																																																																	

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1913 - 2005
ANNUAL TOTAL	40160	50777	
ANNUAL MEAN	110	139	195
HIGHEST ANNUAL MEAN			362
LOWEST ANNUAL MEAN			104
HIGHEST DAILY MEAN	222	305	3250
LOWEST DAILY MEAN	52	58	41
ANNUAL SEVEN-DAY MINIMUM	55	58	42
ANNUAL RUNOFF (AC-FT)	79660	100700	141500
10 PERCENT EXCEEDS	178	235	294
50 PERCENT EXCEEDS	95	100	172
90 PERCENT EXCEEDS	72	75	105

## PORTNEUF RIVER BASIN

## 13075000 MARSH CREEK NEAR MCCAMMON, ID

LOCATION.--Lat 42°37'48", long 112°13'32" (revised), (NAD83), in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.22, T.9 S., R.36 E., Bannock County, McCammon, Hydrologic Unit 17040208, 70 ft upstream from county road crossing, 2 mi southwest of McCammon, and at mile 11.0.

DRAINAGE AREA.--353 mi<sup>2</sup>. Mean elevation, 5,630 ft.

PERIOD OF RECORD.--September 1954 to current year.

REVISED RECORDS.--WDR ID-1980-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,610 ft above NGVD of 1929, by barometer. Prior to July 14, 1965, nonrecording gage 10 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 19,000 acres, of which about 5,500 acres are by withdrawals from ground water and about 5,000 acres are by diversions into Marsh Creek basin from Portneuf River through the Marsh Valley Canal (1966 determination). Part of Birch Creek (tributary to Marsh Creek) is diverted into Devil Creek in Bear River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,120 ft<sup>3</sup>/s Feb. 12, 1962, gage height, 13.25 ft; minimum daily, 7.2 ft<sup>3</sup>/s June 1, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 174 ft<sup>3</sup>/s Mar. 13; minimum daily, 27 ft<sup>3</sup>/s Aug. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	63	45	57	51	53	73	78	100	73	36	38
2	51	62	46	56	50	55	70	75	95	72	36	39
3	50	60	46	55	50	57	69	74	91	71	37	37
4	48	58	45	54	49	61	73	82	92	71	38	44
5	47	56	44	53	50	67	76	93	92	72	35	42
6	49	55	45	53	49	74	73	89	118	70	32	40
7	47	54	46	50	49	78	71	92	130	70	32	40
8	45	53	49	50	49	87	71	97	124	70	29	37
9	44	53	64	47	49	103	70	98	121	65	29	34
10	43	51	80	57	48	131	67	111	112	60	27	37
11	46	48	77	57	46	150	65	120	105	56	28	41
12	46	53	67	52	48	156	64	123	103	54	31	44
13	45	51	63	45	49	174	63	120	102	51	36	43
14	46	49	60	48	50	133	62	110	100	48	36	44
15	44	49	59	46	51	116	64	106	96	45	35	47
16	45	48	57	51	49	103	64	107	92	44	37	46
17	43	48	55	51	46	96	63	124	88	42	38	47
18	46	47	53	50	47	87	64	125	86	43	39	54
19	48	47	51	50	51	83	71	120	85	47	36	49
20	75	47	50	50	49	89	81	117	83	48	36	51
21	106	46	50	50	50	92	84	115	83	44	38	56
22	78	45	46	49	51	89	77	112	83	41	42	50
23	66	46	46	47	51	94	61	110	81	38	38	52
24	69	47	47	45	52	111	70	107	79	38	39	64
25	66	48	45	46	53	98	65	103	77	38	38	64
26	63	49	44	46	53	86	68	102	76	37	37	61
27	59	48	46	49	53	80	73	100	75	32	38	60
28	66	46	47	48	53	79	108	96	74	33	39	60
29	82	46	49	50	---	81	95	91	74	30	41	62
30	73	45	64	51	---	80	82	106	74	34	52	68
31	68	---	58	51	---	76	---	104	---	37	39	---
TOTAL	1760	1518	1644	1564	1396	2919	2157	3207	2791	1574	1124	1451
MEAN	56.8	50.6	53.0	50.5	49.9	94.2	71.9	103	93.0	50.8	36.3	48.4
MAX	106	63	80	57	53	174	108	125	130	73	52	68
MIN	43	45	44	45	46	53	61	74	74	30	27	34
AC-FT	3490	3010	3260	3100	2770	5790	4280	6360	5540	3120	2230	2880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2005, BY WATER YEAR (WY)

MEAN	77.4	79.9	77.7	80.6	103	115	106	102	77.4	52.6	54.5	68.6
MAX	152	158	143	224	329	196	256	309	238	117	124	129
(WY)	1985	1984	1984	1980	1962	1986	1985	1984	1984	1984	1983	1984
MIN	35.3	40.7	40.7	39.0	41.1	44.8	37.6	26.6	10.5	14.2	15.1	22.2
(WY)	2004	2004	2004	2004	2004	2003	2003	1992	2003	2003	2003	2003

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1955 - 2005
ANNUAL TOTAL	16885	23105	
ANNUAL MEAN	46.1	63.3	
HIGHEST ANNUAL MEAN			166 1984
LOWEST ANNUAL MEAN			34.2 2003
HIGHEST DAILY MEAN	134	Mar 18	1100 Feb 12 1962
LOWEST DAILY MEAN	25	Jun 17	7.2 Jun 1 2003
ANNUAL SEVEN-DAY MINIMUM	29	Aug 13	7.8 May 31 2003
ANNUAL RUNOFF (AC-FT)	33490	45830	59910
10 PERCENT EXCEEDS	64	102	134
50 PERCENT EXCEEDS	43	53	71
90 PERCENT EXCEEDS	32	38	40



PORTNEUF RIVER BASIN

13075500 PORTNEUF RIVER AT POCATELLO, ID

LOCATION.--Lat 42°52'18", long 112°28'05", (NAD83), in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.27, T.6 S., R.34 E., Bannock County, Pocatello South quad., Hydrologic Unit 17040208, on left bank 1,400 ft downstream from Carson Street Bridge at Pocatello, 1.2 mi upstream from Pocatello Creek, and at mile 16.8.

DRAINAGE AREA.--1,250 mi<sup>2</sup>, approximately. Mean elevation, 5,850 ft.

PERIOD OF RECORD.--May to September 1897, March 1898 to October 1899, August 1911 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,418.41 ft above NGVD of 1929 (U.S. Army Corps of Engineers datum). May 18, 1897 to Oct. 14, 1899, nonrecording gage at site 1.6 mi upstream at different datum. Aug. 31, 1911 to May 13, 1927, and Oct. 13, 1927 to June 13, 1928, nonrecording gage 0.3 mi upstream at different datum. May 14 to Oct. 12, 1927, water-stage recorder near present site at different datum. June 14, 1928 to Sept. 28, 1950, water-stage recorder near Carson Street Bridge, 0.3 mi upstream at same datum as former nonrecording gages at this site. Sept. 29, 1950 to May 20, 1968, water-stage recorder at Fremont Street site, 1.0 mi upstream at datum 18.57 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Portneuf Reservoir, an earthen dam completed in 1912 and raised 7 ft in 1950; capacity, 23,695 acre-ft (capacity prior to 1950, 16,410 acre-ft); and Chesterfield Reservoir, capacity, 685 acre-ft. Diversions above station for irrigation of about 55,000 acres, of which about 13,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft<sup>3</sup>/s Feb. 14, 1962, gage height, 11.35 ft, site and datum then in use; maximum gage height, 14.56 ft, Jan. 21, 1987, backwater from ice; minimum daily, 0.23 ft<sup>3</sup>/s July 19, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 673 ft<sup>3</sup>/s May 18; minimum, 30 ft<sup>3</sup>/s July 28, Aug. 12-13, gage height, 2.12 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	145	e150	187	162	164	259	367	296	110	40	55
2	64	142	e160	176	159	169	248	336	291	106	50	49
3	60	150	e160	176	157	176	251	320	255	98	54	50
4	58	152	e150	174	155	182	273	319	229	94	43	47
5	57	148	e140	170	161	187	277	339	223	89	41	48
6	57	140	e150	169	160	196	265	372	326	85	39	50
7	60	144	e160	166	160	210	261	405	538	81	34	45
8	61	141	e160	173	160	224	266	453	521	78	35	46
9	59	144	e170	176	158	246	272	478	491	73	33	45
10	58	144	e180	175	157	278	261	514	458	71	32	48
11	58	144	207	184	151	308	252	559	501	70	33	49
12	61	148	197	182	157	327	243	588	505	66	31	53
13	62	153	182	172	162	348	245	575	499	60	31	55
14	60	153	175	e150	163	331	264	520	465	55	37	58
15	69	150	174	e120	159	297	280	494	451	51	40	57
16	65	150	171	e140	152	285	262	533	431	48	43	62
17	65	146	170	e170	e140	286	257	617	408	48	47	67
18	70	145	165	e160	e150	283	267	673	359	47	50	64
19	70	144	e160	157	158	286	291	638	331	45	50	69
20	81	142	e160	158	169	308	317	609	311	45	48	63
21	113	139	e150	159	165	389	330	581	247	46	46	85
22	151	134	e150	157	164	384	323	560	250	46	45	70
23	146	138	e140	154	162	369	311	523	201	48	45	67
24	130	142	e140	e150	161	412	292	477	162	40	46	71
25	125	144	e150	e140	161	392	305	445	155	37	44	85
26	117	151	e150	e150	162	324	309	385	155	34	43	87
27	116	151	e150	e160	163	292	342	334	139	31	40	83
28	122	146	e150	e160	163	297	404	305	126	31	42	85
29	149	e125	158	169	---	310	467	284	120	32	44	83
30	153	e130	176	166	---	306	416	289	116	37	47	84
31	147	---	193	165	---	278	---	306	---	37	54	---
TOTAL	2726	4325	5048	5065	4451	8844	8810	14198	9560	1839	1307	1880
MEAN	87.9	144	163	163	159	285	294	458	319	59.3	42.2	62.7
MAX	153	153	207	187	169	412	467	673	538	110	54	87
MIN	57	125	140	120	140	164	243	284	116	31	31	45
AC-FT	5410	8580	10010	10050	8830	17540	17470	28160	18960	3650	2590	3730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2005, BY WATER YEAR (WY)

MEAN	194	254	264	270	313	401	512	510	270	98.7	91.8	127
MAX	477	479	493	513	754	1054	1251	1986	1416	416	324	480
(WY)	1987	1984	1984	1984	1986	1986	1986	1984	1984	1984	1984	1986
MIN	66.8	90.5	152	153	155	179	62.9	27.3	26.2	11.0	11.2	25.8
(WY)	2004	1935	2004	2004	2004	1934	1934	1992	1992	2003	1992	1992

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1897 - 2005	
ANNUAL TOTAL	47615		68053			
ANNUAL MEAN	130		186		274	
HIGHEST ANNUAL MEAN					705	
LOWEST ANNUAL MEAN					118	
HIGHEST DAILY MEAN	434		673		2850	
LOWEST DAILY MEAN	22		31		0.23	
ANNUAL SEVEN-DAY MINIMUM	24		33		2.4	
ANNUAL RUNOFF (AC-FT)	94440		135000		198400	
10 PERCENT EXCEEDS	237		387		516	
50 PERCENT EXCEEDS	138		155		236	
90 PERCENT EXCEEDS	38		46		61	

e Estimated

PORTNEUF RIVER BASIN

13075910 PORTNEUF RIVER AT TYHEE, ID

LOCATION.--Lat 42°56'41", long 112°32'40"(revised), (NAD83), in NE¼ sec.36, T.5 S., R.33 E., Bannock-Power County line, Michaud quad., Hydrologic Unit 17040208, on right bank 250 ft from gravel road, approximately 6 mi northwest of Chubbuck, and 4 mi west of Tyhee.

DRAINAGE AREA.--1,324 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1927 to October 1928, June 1932 to September 1978 and April 1984 (discharge measurements only); May 1985 to September 1994, March 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,370 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Many diversions upstream for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft<sup>3</sup>/s May 6, 1986, gage height, 6.76 ft; minimum daily, 32 ft<sup>3</sup>/s July 4, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 887 ft<sup>3</sup>/s May 18; minimum daily, 105 ft<sup>3</sup>/s July 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	415	387	428	365	402	497	637	403	165	223	245
2	298	408	390	417	361	406	487	603	397	186	221	237
3	314	411	388	416	360	412	487	585	370	184	227	232
4	308	415	375	416	358	422	508	580	337	166	227	228
5	302	411	359	411	362	429	504	594	353	142	220	237
6	298	398	365	407	361	442	495	633	399	112	188	242
7	257	399	381	402	362	458	491	667	542	105	184	238
8	243	396	387	403	362	477	493	730	564	107	186	239
9	242	400	410	404	361	499	496	764	547	154	178	245
10	277	410	417	403	361	531	487	693	514	194	180	245
11	299	402	442	406	357	568	479	785	538	209	201	261
12	304	405	444	404	367	587	472	844	539	203	193	260
13	304	413	427	389	374	601	473	831	543	200	193	266
14	305	413	419	369	379	596	485	713	480	206	204	265
15	312	410	417	314	374	561	505	697	508	207	214	262
16	308	408	417	371	369	543	494	722	442	217	211	273
17	307	404	415	395	364	536	492	840	382	210	208	279
18	317	400	410	379	365	530	501	887	367	216	229	268
19	316	396	404	367	376	532	526	791	356	212	224	264
20	330	393	402	364	393	547	564	726	331	210	194	262
21	366	388	400	364	390	607	568	685	261	209	190	297
22	428	382	394	366	390	618	565	681	248	209	187	287
23	430	385	369	362	388	599	558	627	219	223	185	310
24	411	389	364	358	389	634	542	587	193	225	185	348
25	400	392	368	345	392	625	558	549	191	208	184	358
26	387	400	389	351	393	564	560	495	205	192	194	365
27	383	403	405	361	394	529	594	442	183	198	188	309
28	389	400	401	365	398	529	648	406	155	190	191	255
29	422	362	396	367	---	543	726	386	151	198	199	273
30	431	344	411	367	---	541	688	390	152	217	190	282
31	420	---	433	366	---	519	---	399	---	219	205	---
TOTAL	10371	11952	12386	11837	10465	16387	15943	19969	10870	5883	6205	8132
MEAN	335	398	400	382	374	529	531	644	362	190	200	271
MAX	431	415	444	428	398	634	726	887	564	225	229	365
MIN	242	344	359	314	357	402	472	386	151	105	178	228
AC-FT	20570	23710	24570	23480	20760	32500	31620	39610	21560	11670	12310	16130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	413	477	478	471	514	615	602	472	243	182	256	308										
MAX	787	732	668	633	1016	1313	1535	1430	665	328	517	729										
(WY)	1987	1987	1987	1987	1986	1986	1986	1986	1986	1986	1986	1986										
MIN	243	371	381	354	347	456	322	92.8	73.3	132	143	183										
(WY)	2004	1993	1993	1993	1993	2003	1992	2003	2003	2003	2003	2003										

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1985 - 2005

ANNUAL TOTAL	115721	140400		
ANNUAL MEAN	316	385	418	
HIGHEST ANNUAL MEAN			833	1986
LOWEST ANNUAL MEAN			309	2003
HIGHEST DAILY MEAN	652	Mar 26	887	May 18
LOWEST DAILY MEAN	56	Jul 8	105	Jul 7
ANNUAL SEVEN-DAY MINIMUM	75	Jul 5	139	Jul 3
ANNUAL RUNOFF (AC-FT)	229500	278500	303200	
10 PERCENT EXCEEDS	466	573	653	
50 PERCENT EXCEEDS	357	388	404	
90 PERCENT EXCEEDS	118	196	165	

PORTNEUF RIVER BASIN

13075983 SPRING CREEK AT SHEEPSKIN ROAD NEAR FORT HALL, ID

LOCATION.--Lat 43°02'33", long 112°33'00", (NAD83), in NW¼NW¼SW¼ sec.25, T.4 S., R.33 E., Bingham County, Pingree quad., Hydrologic Unit 17040206, on left bank, 300 yards upstream from county road bridge, and 5.9 mi west of Fort Hall.

DRAINAGE AREA.--18 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--July 1980 to current year (prior to July 1980, miscellaneous measurements only).

GAGE.--Water-stage recorder. Elevation of gage is 4,380 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 605 ft<sup>3</sup>/s June 8, 1998; maximum gage height, 6.09 ft, June 18, 1997 (backwater from Snake River); minimum daily, 220 ft<sup>3</sup>/s July 2, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 301 ft<sup>3</sup>/s Sept. 26; minimum daily, 233 ft<sup>3</sup>/s July 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	270	262	286	271	273	269	251	264	247	258	258
2	286	269	263	284	271	274	269	251	262	244	258	260
3	287	270	263	284	271	274	270	256	266	250	259	262
4	287	268	266	285	272	275	275	261	272	256	258	263
5	283	267	265	280	272	274	268	265	278	250	259	267
6	280	267	265	282	271	274	268	261	285	243	261	265
7	278	266	267	283	270	273	267	260	283	241	262	266
8	275	266	268	284	268	273	269	257	279	237	268	266
9	274	267	270	283	268	273	267	264	275	239	269	268
10	276	268	273	283	267	273	263	260	270	247	265	266
11	276	268	274	284	268	272	261	269	272	247	260	271
12	274	268	275	281	270	273	261	273	271	240	260	273
13	272	269	274	282	272	272	260	272	269	241	262	272
14	272	269	275	283	275	271	257	266	263	238	264	271
15	270	270	277	281	271	271	255	272	262	233	264	275
16	269	272	278	281	269	272	254	280	257	237	261	274
17	271	272	278	281	268	272	255	289	254	242	263	276
18	273	271	280	280	267	271	255	286	255	246	264	277
19	271	269	282	277	272	272	258	292	254	238	267	280
20	276	272	277	277	273	274	261	288	256	238	266	286
21	274	270	279	276	276	272	259	287	253	238	269	294
22	273	271	279	276	277	275	256	284	252	237	269	296
23	275	269	277	275	275	282	255	280	252	238	264	300
24	274	268	278	274	274	278	255	276	254	240	261	299
25	273	269	278	273	274	275	255	270	251	242	260	298
26	273	269	280	273	274	272	253	267	252	242	260	301
27	271	270	279	273	273	272	253	267	265	245	260	299
28	276	270	279	273	273	274	254	264	252	244	262	296
29	279	265	284	272	---	273	252	264	251	246	272	292
30	274	264	285	271	---	271	253	266	250	248	263	292
31	273	---	286	272	---	269	---	261	---	251	260	---
TOTAL	8553	8063	8516	8649	7602	8469	7807	8359	7879	7525	8148	8363
MEAN	276	269	275	279	272	273	260	270	263	243	263	279
MAX	288	272	286	286	277	282	275	292	285	256	272	301
MIN	269	264	262	271	267	269	252	251	250	233	258	258
AC-FT	16960	15990	16890	17160	15080	16800	15490	16580	15630	14930	16160	16590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

	364	356	352	345	339	339	336	352	349	328	337	356
MEAN	364	356	352	345	339	339	336	352	349	328	337	356
MAX	438	419	398	404	400	392	414	477	574	403	417	435
(WY)	1985	1985	1985	1998	1986	1985	1985	1998	1998	1998	1984	1984
MIN	245	244	273	266	260	265	253	243	238	239	248	261
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2003	2004	2004	2003

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	94960		97933			
ANNUAL MEAN	259		268			
HIGHEST ANNUAL MEAN					346	
LOWEST ANNUAL MEAN					410	
HIGHEST DAILY MEAN					255	
LOWEST DAILY MEAN					605	
ANNUAL SEVEN-DAY MINIMUM	294		301		Jun 8 1998	
ANNUAL RUNOFF (AC-FT)	220		233		Jul 2 2004	
10 PERCENT EXCEEDS	225		239		Jul 15 2004	
50 PERCENT EXCEEDS	225		225		Jun 29 2004	
90 PERCENT EXCEEDS	188400		194300		250700	
10 PERCENT EXCEEDS	278		283		399	
50 PERCENT EXCEEDS	261		270		348	
90 PERCENT EXCEEDS	239		252		282	

## SNAKE RIVER MAIN STEM

## 13077000 SNAKE RIVER AT NEELEY, ID

LOCATION.--Lat 42°46'03", long 112°52'46", (NAD83), in NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.31, T.7 S., R.31 E., Power County, American Falls SW quad., Hydrologic Unit 17040209, on right bank 400 ft upstream from fish hatchery buildings, 0.9 mi downstream from American Falls Dam, and at mile 714.1.

DRAINAGE AREA.--13,600 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1906 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1910.

GAGE.--Water-stage recorder. Datum of gage is 4,241.6 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to Aug. 8, 1910, nonrecording gage, and Aug. 8, 1910 to June 6, 1930, water-stage recorder at site 2.5 mi downstream at different datum. June 7, 1930 to Mar. 19, 1945, water-stage recorder at site 0.4 mi upstream at datum 0.4 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir and other reservoirs, having a combined usable capacity of 4,600,000 acre-ft. Diversions above station for irrigation of about 1,080,000 acres, of which about 228,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake River Plain aquifer above the station, some of which returns above American Falls Reservoir. Records computed to show flow at former site in sec.11, T.8 S., R.30 E., 0.5 mi north of Neeley, and 2.5 mi downstream from present site, by adding 30 ft<sup>3</sup>/s for inflow between sites.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to regulation by American Falls Dam (1907-26), 48,400 ft<sup>3</sup>/s June 20, 1918, gage height, 13.5 ft, site and datum then in use; minimum daily, 2,180 ft<sup>3</sup>/s Oct. 7, 1924.

Maximum discharge since regulation began in 1927, 46,100 ft<sup>3</sup>/s June 19, 20, 24, 25, 1997, gage height, 11.46 ft, present site and datum; minimum, 50 ft<sup>3</sup>/s Oct. 22, 23, Nov. 14-16, 1941, Oct. 29, 1961, Nov. 6, 1970; minimum gage height, 0.82 ft, Oct. 29, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,500 ft<sup>3</sup>/s July 4, 9; minimum daily, 358 ft<sup>3</sup>/s Dec. 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3300	379	372	370	372	384	401	3890	7260	12700	12200	9690
2	3330	376	367	368	372	384	400	4060	7660	12900	12000	9770
3	3350	372	367	374	372	386	400	4630	7760	13400	11800	9200
4	3260	373	367	363	374	386	914	5130	7630	13500	11500	8730
5	2080	376	369	366	376	386	1400	4480	7390	12900	11100	8640
6	1450	377	372	367	373	386	1390	4180	6850	12400	10800	8690
7	1460	377	378	365	375	387	1860	4240	6950	12500	10800	8670
8	1480	375	379	373	376	386	2380	4400	7400	13100	10900	8550
9	1490	377	376	368	375	379	2350	4830	7970	13500	10800	8380
10	1480	380	376	367	376	372	2370	5420	8340	13200	10900	8290
11	1470	382	376	368	376	379	2400	5410	8160	13300	11000	8370
12	1470	382	377	372	377	385	2620	4640	7980	13200	11000	8160
13	980	386	369	373	380	382	3690	3910	8570	13100	11000	7750
14	410	386	358	372	380	385	4440	3630	9090	13200	10500	7330
15	374	369	359	372	389	386	4690	4060	9190	13100	9950	7060
16	378	367	359	372	375	386	4780	4050	9420	13100	9890	6890
17	381	372	360	372	376	386	4980	3260	10200	13300	9390	6670
18	386	366	362	372	376	386	5310	2970	10600	13400	9050	6660
19	388	363	363	372	378	387	5290	2970	10600	12900	9190	6400
20	392	365	364	373	377	387	5220	2970	10700	12700	9580	6310
21	395	367	363	376	378	387	4900	3230	10900	12600	9780	5990
22	397	367	364	376	378	394	3460	4230	10800	12900	9990	5550
23	404	381	362	376	379	398	2100	5620	12000	13400	10400	5160
24	405	367	364	376	380	396	2150	6400	12800	13400	10000	4730
25	387	368	364	377	381	399	2930	6430	13000	13400	9410	4740
26	364	364	365	377	381	399	3610	5260	12900	13200	9320	4510
27	367	359	367	373	381	402	3580	5530	12500	12900	9440	4320
28	371	359	367	368	383	401	3520	6690	12400	12300	9830	4310
29	373	360	369	371	---	395	3400	7520	12300	12100	10000	4400
30	374	360	370	372	---	400	3710	7050	12600	12100	10000	4430
31	377	---	370	372	---	401	---	6960	---	12200	9760	---
TOTAL	33523	11152	11395	11513	10566	12057	90645	148050	291920	401900	321280	208350
MEAN	1081	372	368	371	377	389	3022	4776	9731	12960	10360	6945
MAX	3350	386	379	377	389	402	5310	7520	13000	13500	12200	9770
MIN	364	359	358	363	372	372	400	2970	6850	12100	9050	4310
AC-FT	66490	22120	22600	22840	20960	23920	179800	293700	579000	797200	637300	413300

SNAKE RIVER MAIN STEM  
13077000 SNAKE RIVER AT NEELEY, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1926, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6610	7034	6134	5757	5957	6760	9783	16870	20590	11890	6821	6058
MAX	10490	9209	7590	7111	6920	11650	18480	24120	35470	23940	10610	12420
(WY)	1913	1913	1908	1914	1911	1910	1910	1910	1909	1907	1912	1912
MIN	3911	5254	4411	4526	4889	5089	6084	6047	6028	5162	2783	2565
(WY)	1923	1925	1920	1916	1923	1920	1920	1924	1924	1919	1924	1919

SUMMARY STATISTICS

<sup>a</sup> WATER YEARS 1907 - 1926

ANNUAL MEAN	8957
HIGHEST ANNUAL MEAN	11890
LOWEST ANNUAL MEAN	5375
HIGHEST DAILY MEAN	48400
LOWEST DAILY MEAN	2180
ANNUAL SEVEN-DAY MINIMUM	2440
ANNUAL RUNOFF (AC-FT)	6489000
10 PERCENT EXCEEDS	18200
50 PERCENT EXCEEDS	7010
90 PERCENT EXCEEDS	4630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3640	2764	3097	3602	3658	4458	8286	12960	13950	12340	10850	7345
MAX	12630	12420	10600	12640	18080	19940	22500	25160	35580	16570	13280	13560
(WY)	1985	1985	1987	1984	1997	1997	1971	1976	1997	1950	1997	1997
MIN	276	56.3	55.2	123	92.7	306	1688	4776	6062	7561	5664	3140
(WY)	1962	1967	1962	1967	1961	1993	1935	2005	1934	1934	1934	1934

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

<sup>b</sup> WATER YEARS 1927 - 2005

ANNUAL TOTAL	1513813	1552351	
ANNUAL MEAN	4136	4253	7263
HIGHEST ANNUAL MEAN			13800
LOWEST ANNUAL MEAN			3834
HIGHEST DAILY MEAN	11700	Jun 12	13500
LOWEST DAILY MEAN	345	Jan 8	358
ANNUAL SEVEN-DAY MINIMUM	346	Jan 6	361
ANNUAL RUNOFF (AC-FT)	3003000		3079000
10 PERCENT EXCEEDS	9900		12200
50 PERCENT EXCEEDS	2570		1490
90 PERCENT EXCEEDS	358		367

<sup>a</sup> Prior to regulation by American Falls Dam.

<sup>b</sup> Since regulation by American Falls Dam.