

**Figure 12.** Schematic showing gaging stations in Snake River Basin between Snake River at Neeley and Snake River near Buhl.



## SNAKE RIVER MAIN STEM

## 13081500 SNAKE RIVER NEAR MINIDOKA, ID

LOCATION.--Lat 42°40'23", long 113°30'01" (revised), in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.2, T.9 S., R.25 E., Minidoka County, Lake Walcott West quad., Hydrologic Unit 17040209, on right bank 1 mi downstream from Minidoka Dam, 6 mi south of Minidoka, and at mile 673.5.

DRAINAGE AREA.--15,700 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 21, 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "below Minidoka Dam, at Howell's Ferry", 1911. Records for August 1895 to Apr. 20, 1910, at site 6 mi downstream "at Montgomery Ferry near Minidoka" are not equivalent.

REVISED RECORDS.--WSP 1347: 1911.

GAGE.--Water-stage recorder. Datum of gage is 4,132.2 ft above NGVD of 1929 (river-profile survey). Prior to Apr. 21, 1910, nonrecording gage at site 6 mi downstream at different datum. Apr. 21, 1910 to Aug. 28, 1911, nonrecording gage at present site and datum.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Lake Walcott (1906), American Falls Reservoir (1927), and other reservoirs, having a combined usable capacity of about 4,700,000 acre-ft. Diversions above station for irrigation of about 128,000 acres below and about 1,200,000 acres above station, of which about 304,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake River Plain aquifer above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1910-26), 45,900 ft<sup>3</sup>/s June 21, 1918, gage height, 16.02 ft; minimum daily, 1,700 ft<sup>3</sup>/s Aug. 2, 1919. Maximum discharge since regulation (1927-2002), 42,900 ft<sup>3</sup>/s June 21, 1997, gage height, 15.49 ft; minimum, 37 ft<sup>3</sup>/s Jan. 28, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 47,500 ft<sup>3</sup>/s May 29, 30, 1897, at site 6 miles downstream at Montgomery Ferry near Minidoka, gage height, 12.6 ft (datum at that site).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,070 ft<sup>3</sup>/s July 15; minimum, 407 ft<sup>3</sup>/s Oct. 15, gage height, 2.58 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5260	502	540	603	e550	525	753	4580	7750	8440	8680	7730
2	4430	516	557	604	e550	524	616	5060	7640	8550	8720	7670
3	4430	577	550	620	e550	520	591	5420	7460	8610	8680	7580
4	4360	596	588	623	e550	540	587	5830	7320	8660	8660	7480
5	4250	582	632	602	e550	579	575	6010	7410	8700	8760	7350
6	4140	531	611	599	e550	576	613	6200	7440	8820	8690	7230
7	3980	546	e600	599	e550	e580	703	6510	7460	8860	8570	7190
8	3600	561	e600	596	e550	e580	584	6260	7620	8900	8490	7050
9	3380	578	e600	594	563	589	575	5990	7550	8880	8340	6770
10	3200	552	595	584	557	584	597	6000	7490	8760	8370	6420
11	2910	535	606	578	561	593	594	6190	7430	8780	8450	6330
12	2590	551	594	603	572	596	609	6270	7340	8700	8430	6220
13	2650	549	587	626	556	665	606	6440	7370	8800	8490	6350
14	1590	539	e600	582	562	595	618	6830	7590	8950	8520	6370
15	503	543	e600	569	565	575	683	6890	7750	9070	8600	6320
16	514	556	590	558	507	567	872	6930	7860	9000	8660	6340
17	477	542	592	553	521	571	794	6980	8020	8910	8520	6220
18	479	541	582	556	517	581	810	7090	8080	8740	8490	6030
19	470	578	584	560	519	584	868	7130	8150	8800	8600	5900
20	464	569	576	563	522	579	1680	7100	7980	8860	8640	5740
21	480	556	604	580	516	570	1750	7310	7650	8850	8470	5660
22	492	561	597	e580	515	573	1800	7500	7360	8750	8180	5630
23	535	647	e600	e560	522	601	1920	7110	7700	8570	8100	5540
24	507	580	e600	564	e520	616	1990	6950	8050	8580	8110	5720
25	496	566	e600	557	e520	605	2800	6800	8210	8670	8040	5710
26	562	546	e600	556	520	584	2890	6840	8320	8770	7960	5650
27	529	540	628	565	522	656	2890	6910	8370	8920	7820	5590
28	510	551	618	570	530	651	3230	6880	8740	8990	7710	5530
29	510	553	611	568	---	618	3750	7060	8530	9010	7740	5430
30	524	547	613	567	---	654	4190	7590	8400	8840	7780	5320
31	559	---	610	562	---	639	---	7900	---	8800	7780	---
TOTAL	59381	16691	18465	18001	15087	18270	41538	204560	234040	272540	259050	190070
MEAN	1916	556.4	595.6	580.7	538.8	589.4	1385	6599	7801	8792	8356	6336
MAX	5260	647	632	626	572	665	4190	7900	8740	9070	8760	7730
MIN	464	502	540	553	507	520	575	4580	7320	8440	7710	5320
AC-FT	117800	33110	36630	35700	29930	36240	82390	405700	464200	540600	513800	377000

SNAKE RIVER MAIN STEM

13081500 SNAKE RIVER NEAR MINIDOKA, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1926, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5941	6683	6047	5740	6081	6342	8108	14000	16910	8233	4800	4732
MAX	10390	9138	7279	7226	7657	7790	11820	19940	30430	18490	8725	11820
(WY)	1913	1913	1918	1912	1911	1911	1914	1921	1918	1917	1912	1912
MIN	2154	4805	4350	3813	5014	4632	4599	4320	3371	2986	2067	2151
(WY)	1925	1920	1920	1925	1920	1920	1924	1924	1924	1919	1919	1919

SUMMARY STATISTICS	a WATER YEARS 1910 - 1926	
ANNUAL MEAN	7841	
HIGHEST ANNUAL MEAN	10830	1913
LOWEST ANNUAL MEAN	4562	1924
HIGHEST DAILY MEAN	45800	Jun 21 1918
LOWEST DAILY MEAN	1700	Aug 2 1919
ANNUAL SEVEN-DAY MINIMUM	1820	Jul 27 1919
ANNUAL RUNOFF (AC-FT)	5681000	
10 PERCENT EXCEEDS	14500	
50 PERCENT EXCEEDS	6260	
90 PERCENT EXCEEDS	3450	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3465	3078	3458	3903	3953	4413	7632	11180	11700	9580	8591	6221
MAX	11900	12620	11400	13250	18120	20020	22130	23390	32370	14670	11640	12870
(WY)	1985	1985	1984	1984	1997	1997	1971	1971	1997	1983	1997	1997
MIN	714	306	294	398	287	251	1015	4503	5959	5982	5192	2774
(WY)	1962	1962	1962	1967	1961	1961	1935	1930	1934	1934	1934	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	b WATER YEARS 1927 - 2002
ANNUAL TOTAL	1403616	1347693	
ANNUAL MEAN	3846	3692	6442
HIGHEST ANNUAL MEAN			13020
LOWEST ANNUAL MEAN			3330
HIGHEST DAILY MEAN	9210	May 16	42700
LOWEST DAILY MEAN	464	Oct 20	37
ANNUAL SEVEN-DAY MINIMUM	482	Oct 16	111
ANNUAL RUNOFF (AC-FT)	2784000	2673000	4667000
10 PERCENT EXCEEDS	8460	8600	11300
50 PERCENT EXCEEDS	2650	753	6270
90 PERCENT EXCEEDS	547	540	1040

a Prior to regulation by American Falls Dam.  
 b Since regulation by American Falls Dam.  
 e Estimated

SNAKE RIVER MAIN STEM  
13081500 SNAKE RIVER NEAR MINIDOKA, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to 1996, February to September 1998, April to September 2000, April to June 2002 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1993, June to September 1994, July to September 1996, February to September 1998, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 24.0 °C Aug. 3-5, 1994.

WATER-QUALITY DATA, APRIL TO JUNE 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
APR 25...	0915	2730	481	8.8	8.0	8.7	9.2	10.1	101	S2
MAY 21...	1030	7240	432	8.7	6.0	12.4	5.3	8.8	97	S7
JUN 18...	0945	8100	449	8.4	14.0	16.3	3.8	7.8	94	S7

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 25...	.030	.30	.085	E.004	.029	9.0	66.3
MAY 21...	.052	.36	.014	E.005	.030	2.0	39.1
JUN 18...	.038	.29	.015	.038	.059	3.0	65.6

E Estimated value  
S Most probable value

GOOSE CREEK BASIN

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi upstream from maximum flow line of Oakley Reservoir, 5 mi upstream from Trapper Creek, 5 mi south of Oakley Dam, 9 mi southwest of Oakley, and at mile 35.1.

DRAINAGE AREA.--633 mi<sup>2</sup>. Mean elevation, 6,030 ft.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,770 ft above NGVD of 1929, by barometer. Prior to Aug. 29, 1912, at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Decead water rights are reported to apply to about 2,700 acres above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft<sup>3</sup>/s Feb. 11, 1962, gage height, 9.3 ft, determined from slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947, July 30, Aug. 3 to Sept. 4, Sept. 10-26, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 160 ft<sup>3</sup>/s May 3; minimum daily, 0.81 ft<sup>3</sup>/s Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	19	e24	e32	e18	e30	55	105	50	8.2	4.6	1.7
2	4.5	23	e26	e32	e20	e30	58	138	63	7.7	4.3	1.9
3	4.8	22	e24	e32	e20	e30	68	160	53	6.7	4.5	1.7
4	5.1	21	e22	e30	e22	e30	77	134	34	5.8	4.5	1.8
5	5.5	21	e24	e32	e22	e26	81	129	43	5.6	4.1	1.7
6	5.7	21	e28	e34	e26	29	87	130	40	5.3	3.8	1.9
7	6.2	21	e30	e38	e28	e32	95	137	36	5.0	3.6	3.0
8	6.7	20	e28	e38	e26	e30	107	141	34	4.9	3.3	4.1
9	7.1	20	e30	e36	e24	e30	108	150	34	4.3	3.2	6.6
10	8.3	21	36	e32	e22	34	107	147	35	4.5	3.1	7.1
11	9.9	23	38	e34	e24	35	108	126	36	9.1	2.9	6.5
12	11	24	36	e36	e30	40	108	111	34	6.0	2.5	6.1
13	11	24	34	e34	e36	e40	107	97	30	6.4	2.3	6.0
14	12	24	e34	e32	e40	e40	111	78	27	5.5	2.1	5.8
15	12	23	e32	e30	e40	e38	123	77	25	4.9	1.9	5.5
16	12	21	e30	e28	e50	e40	144	78	22	5.5	1.7	5.0
17	12	21	32	e28	e50	e38	159	79	17	6.7	1.4	5.4
18	12	25	e34	e28	e55	e36	145	77	14	5.5	1.2	6.0
19	13	26	e36	e26	e55	36	130	78	12	5.4	0.98	6.6
20	14	25	e38	27	e55	38	117	77	12	5.8	0.87	7.6
21	16	25	e30	32	e55	45	105	90	12	5.7	0.81	7.7
22	16	e24	e28	e30	e60	60	93	115	11	6.1	0.90	8.1
23	16	e24	e26	e30	e55	68	85	120	11	6.3	0.91	8.4
24	17	e20	e24	e30	e55	69	76	102	12	6.2	0.96	8.3
25	16	e26	e20	e26	e50	62	76	85	12	7.4	0.98	9.2
26	16	e26	e20	e34	e50	56	79	80	12	7.3	1.0	9.2
27	17	e22	e22	e28	e50	51	86	78	11	6.3	1.1	9.1
28	17	e20	22	e26	e40	50	91	75	10	5.9	1.6	9.3
29	18	19	e24	e24	---	50	101	63	9.5	5.5	1.5	9.7
30	18	e18	e32	e22	---	50	85	53	9.1	5.0	1.6	10
31	18	---	e32	e20	---	52	---	49	---	4.7	1.5	---
TOTAL	361.4	669	896	941	1078	1295	2972	3159	760.6	185.2	69.71	181.0
MEAN	11.66	22.30	28.90	30.35	38.50	41.77	99.07	101.9	25.35	5.974	2.249	6.033
MAX	18	26	38	38	60	69	159	160	63	9.1	4.6	10
MIN	3.6	18	20	20	18	26	55	49	9.1	4.3	0.81	1.7
AC-FT	717	1330	1780	1870	2140	2570	5890	6270	1510	367	138	359

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)												
MEAN	18.28	24.73	24.08	29.72	47.11	65.81	100.6	143.8	65.25	18.44	11.68	10.93
MAX	45.7	50.9	45.3	163	241	356	242	625	332	84.3	52.9	39.5
(WY)	1985	1985	1965	1971	1962	1921	1986	1984	1975	1984	1984	1984
MIN	1.91	8.03	11.8	11.4	15.9	28.3	18.2	2.75	1.38	0.40	0.000	0.000
(WY)	1993	1993	1968	1963	1949	1991	1992	1992	1992	1992	1940	1935

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1911 - 2002	
ANNUAL TOTAL	7965.56		12567.91			
ANNUAL MEAN	21.82		34.43		46.85	
HIGHEST ANNUAL MEAN					150	
LOWEST ANNUAL MEAN					13.2	
HIGHEST DAILY MEAN	60	Mar 30	160	May 3	2560	Feb 11 1962
LOWEST DAILY MEAN	0.64	Aug 28	0.81	Aug 21	0.00	Jul 22 1934
ANNUAL SEVEN-DAY MINIMUM	0.71	Aug 26	0.92	Aug 19	0.00	Jul 22 1934
ANNUAL RUNOFF (AC-FT)	15800		24930		33940	
10 PERCENT EXCEEDS	45		86		113	
50 PERCENT EXCEEDS	21		24		25	
90 PERCENT EXCEEDS	1.9		4.2		7.6	

e Estimated

GOOSE CREEK BASIN

13083000 TRAPPER CREEK NEAR OAKLEY, ID

LOCATION.--Lat 42°10'10", long 113°58'20", in NW¼SE¼NW¼ sec.34, T.14 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on left bank 4 mi upstream from Oakley Dam, 7 mi southwest of Oakley, and at mile 3.0.

DRAINAGE AREA.--53.7 mi<sup>2</sup>. Mean elevation, 6,360 ft.

PERIOD OF RECORD.--May 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1063: 1941, 1943. WSP 1567: Drainage area.

GAGE.--Water-stage recorder and broadcrested concrete weir. Elevation of gage is 4,820 ft above NGVD of 1929, by barometer. Prior to Sept. 1, 1912, water-stage recorder at approximately present site at different datum. Apr. 8, 1913 to Sept. 30, 1916, and Mar. 28, 1919 to Aug. 15, 1931, at site 1 mi upstream at different datum. Sept. 1, 1912 to Apr. 7, 1913, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Small diversions above station for irrigation. Flow of artesian well, completed in 1936, enters above. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 270 ft<sup>3</sup>/s Aug. 17, 1941, gage height, 6.99 ft, during cloudburst, from rating curve extended above 100 ft<sup>3</sup>/s on basis of velocity-area studies and peak flow over weir (a higher flow may have occurred during cloudburst Aug. 15, 1931); maximum gage height, 8.64 ft, Jan. 31, 1995, affected by backwater from beaver dam; minimum daily, 0.90 ft<sup>3</sup>/s July 19, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 31 ft<sup>3</sup>/s May 1, 7; minimum daily, 7.1 ft<sup>3</sup>/s Dec. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	9.8	11	10	11	11	18	31	24	14	9.7	8.1
2	7.3	9.7	11	10	10	11	20	30	25	13	9.7	8.0
3	7.3	9.7	10	10	10	11	20	29	25	13	9.6	8.0
4	7.3	9.7	10	9.9	10	11	20	28	24	13	9.6	8.0
5	7.4	9.7	10	9.9	9.8	11	21	29	23	12	9.5	8.1
6	7.4	9.7	12	10	10	13	22	30	22	12	9.6	8.6
7	7.4	9.7	12	11	10	13	23	31	22	12	9.3	9.5
8	7.4	9.6	10	11	11	12	22	30	21	12	9.2	9.4
9	7.5	9.7	10	11	11	12	22	29	21	12	9.2	9.1
10	7.4	9.7	10	11	11	12	23	28	21	11	9.3	8.7
11	7.7	9.7	10	11	11	12	23	27	21	11	8.9	8.5
12	7.7	9.7	10	11	11	13	24	26	21	11	8.7	8.4
13	7.4	9.8	10	10	11	14	24	26	20	11	8.8	8.2
14	7.4	10	11	10	11	13	26	25	19	11	8.7	8.1
15	7.5	10	9.9	10	11	13	29	26	19	12	8.6	8.0
16	7.7	10	11	9.4	11	13	26	26	18	11	8.4	8.0
17	7.8	10	11	10	11	13	25	26	17	11	8.5	8.6
18	8.0	10	10	10	11	13	25	27	18	12	8.5	9.3
19	8.1	10	10	10	11	13	24	27	18	11	8.6	9.0
20	8.3	10	10	10	12	13	23	28	17	11	8.4	8.9
21	8.5	10	10	10	11	13	22	30	17	11	8.5	8.8
22	8.7	13	9.6	10	11	14	22	29	17	11	8.7	8.9
23	9.1	11	9.8	10	12	15	23	28	17	10	8.8	8.8
24	9.0	10	9.0	10	12	15	23	27	16	9.9	8.7	8.8
25	8.9	11	7.1	10	11	15	23	26	15	10	8.5	8.9
26	8.9	10	8.9	10	11	15	24	25	15	11	8.4	8.8
27	9.0	10	12	10	11	15	25	25	15	10	8.5	9.1
28	9.1	10	11	10	11	16	25	24	14	9.8	8.4	9.3
29	9.1	11	10	7.6	---	16	25	24	14	9.7	8.4	9.2
30	9.3	11	10	9.0	---	16	27	24	14	9.7	8.4	9.1
31	10	---	10	11	---	17	---	23	---	9.6	8.3	---
TOTAL	250.9	303.2	316.3	312.8	304.8	414	699	844	570	347.7	274.4	260.2
MEAN	8.094	10.11	10.20	10.09	10.89	13.35	23.30	27.23	19.00	11.22	8.852	8.673
MAX	10	13	12	11	12	17	29	31	25	14	9.7	9.5
MIN	7.3	9.6	7.1	7.6	9.8	11	18	23	14	9.6	8.3	8.0
AC-FT	498	601	627	620	605	821	1390	1670	1130	690	544	516

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	10.89	11.31	11.40	11.52	12.87	15.28	21.70	31.71	21.99	12.38	10.12	10.02																																																																																
MAX	14.7	16.2	16.2	20.5	30.5	60.0	70.0	100	73.1	36.1	21.9	14.8																																																																																
(WY)	1985	1985	1981	1943	1943	1921	1921	1984	1984	1984	1984	1921																																																																																
MIN	8.01	7.80	7.62	6.00	8.00	9.66	10.6	9.20	6.35	3.95	6.45	6.80																																																																																
(WY)	1931	1931	1912	1915	1915	1933	1934	1934	1994	1992	1991	1931																																																																																

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1911 - 2002

ANNUAL TOTAL	4084.4	4897.3	
ANNUAL MEAN	11.19	13.42	15.13
HIGHEST ANNUAL MEAN			33.9
LOWEST ANNUAL MEAN			8.65
HIGHEST DAILY MEAN			150
LOWEST DAILY MEAN	22	May 16	31
ANNUAL SEVEN-DAY MINIMUM	7.0	Sep 20	7.1
ANNUAL RUNOFF (AC-FT)	7.0	Sep 19	7.3
10 PERCENT EXCEEDS			0.90
50 PERCENT EXCEEDS			0.97
90 PERCENT EXCEEDS			0.97
ANNUAL RUNOFF (AC-FT)	8100	9710	10960
10 PERCENT EXCEEDS	16	25	26
50 PERCENT EXCEEDS	11	11	12
90 PERCENT EXCEEDS	7.7	8.4	8.8

GOOSE CREEK BASIN

13083500 OAKLEY RESERVOIR NEAR OAKLEY, ID

LOCATION.--Lat 42°11'50", long 113°54'50", in sec.19, T.14 S., R.22 E., Cassia County, Hydrologic Unit 17040211, just upstream from right abutment of Oakley Dam on Goose Creek, 4 mi southwest of Oakley, and at mile 29.9.

DRAINAGE AREA.--729 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1912 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Nonrecording gage. Supplemental recording gage from May 17 to June 2, 1984. Elevation of gage is 4,630 ft, by barometer.

REMARKS.--Reservoir is formed by earthen dam constructed in 1911-13; storage began in 1911. Usable capacity, 77,400 acre-ft between gage heights 0.0 ft, bottom of diversion tunnel, and 138.4 ft, crest of spillway. Silt deposition at the dam has decreased storage capacity, affecting the reliability of the capacity table particularly at the lower elevations. Crest raised in May 1984 from 136.0 ft. Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Oakley Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 75,600 acre-ft May 22, 1984, gage height, 137.0 ft; reservoir drained at close of irrigation season in 1915, 1919-20, 1926, 1933, 1950, 1959, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 26,300 acre-ft May 28, gage height, 81.7 ft; minimum contents, 4,420 acre-ft Oct. 6.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	12000	---	17300	23600	---	---	---	---
2	---	---	---	9830	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	7710
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	12400	---
6	4420	---	---	---	---	---	---	24400	---	---	---	---
7	---	---	---	---	12200	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	18200	---	---
9	---	---	---	---	---	---	---	---	---	---	---	7220
10	---	---	---	---	---	---	---	---	25400	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	11300	---
13	---	---	---	---	---	---	---	25700	---	---	---	---
14	---	6450	8590	---	---	---	---	---	---	---	---	---
15	4850	---	---	---	---	15400	20200	---	---	16500	---	---
16	---	---	---	---	---	---	---	---	---	---	---	6710
17	---	---	---	---	---	---	---	---	24100	---	---	---
18	---	---	8920	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	23700	---	9980	---	---
20	---	---	---	---	---	---	---	25400	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	15800	---	---	---	15300	---	---
23	---	---	---	---	---	---	---	---	---	---	---	6320
24	---	---	---	---	---	---	---	---	22300	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	8740	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	e14100	---	---	26300	---	---	---	---
29	---	---	---	---	---	---	---	---	---	13700	---	---
30	---	e7590	---	---	---	---	e23400	---	e20500	---	---	5970
31	e5700	---	e9710	e11900	---	e17200	---	e26100	---	e13300	e8100	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
†	630	1890	2120	2190	2200	3100	6200	2700	-5600	-7200	-5200	-2130

CAL YR 2001 † -11790  
WTR YR 2002 † 900

† Change in contents, in acre-feet.  
e Estimated





Wire-weight gage at Pacific Creek near Moran, WY (May 16, 1979)

SNAKE RIVER BASIN

13087505 LOWER MILNER POWER PLANT AT MILNER, ID

LOCATION.--Lat 42°31'29", long 114°01'46", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.30, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, 1.1 mi below Milner Dam.

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Six ultrasonic flow meters on two pipes connected to data collection platform.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,680 ft<sup>3</sup>/s May 2, 1999; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 810 ft<sup>3</sup>/s Nov. 10; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	459	654	710	629	571	343	8.0	7.0	27	22	31
2	0.00	486	655	711	620	571	3.1	8.0	7.0	27	22	31
3	0.00	516	673	711	612	571	3.0	8.0	7.0	27	22	31
4	0.00	527	698	688	606	572	4.4	8.0	7.0	27	23	31
5	0.00	600	699	675	602	573	3.7	8.0	7.0	27	23	38
6	0.00	684	698	679	602	573	0.83	8.0	7.0	27	23	7.0
7	0.00	681	695	678	603	573	0.19	7.9	7.0	27	22	7.0
8	0.00	702	690	679	608	569	0.25	8.0	7.0	27	22	7.1
9	0.00	774	690	679	602	571	0.00	8.0	7.0	27	22	7.1
10	0.00	810	689	678	603	584	0.00	8.0	7.0	27	22	7.1
11	0.00	800	713	674	605	590	0.00	8.0	7.0	27	22	7.0
12	0.00	731	724	678	603	562	0.00	8.0	7.0	27	22	7.0
13	0.00	692	723	678	601	562	0.00	7.6	7.0	27	22	7.0
14	0.00	681	724	631	602	612	0.00	7.5	7.0	25	22	7.0
15	0.00	665	724	603	601	678	0.00	7.5	7.0	26	22	7.0
16	0.00	665	724	587	606	687	0.00	7.4	7.0	23	22	6.9
17	135	662	723	587	608	658	0.00	7.2	6.9	22	22	7.0
18	370	658	727	588	607	643	0.00	7.1	7.0	23	22	7.0
19	297	657	728	589	597	646	0.06	7.0	7.0	23	22	7.0
20	294	638	735	593	577	650	0.00	7.0	7.0	23	22	7.1
21	294	622	736	595	574	655	0.00	7.1	7.0	22	22	7.1
22	294	623	735	598	574	668	0.00	7.4	7.0	22	23	7.6
23	293	598	697	603	572	675	0.00	7.3	7.0	22	23	7.5
24	293	580	692	620	572	675	0.00	7.4	7.0	22	23	7.4
25	375	583	696	634	568	643	0.00	7.2	21	20	23	38
26	404	583	698	636	568	621	8.0	7.2	28	22	23	7.7
27	402	626	699	636	569	585	8.0	7.1	27	22	e23	7.7
28	402	650	705	629	570	541	8.0	7.1	27	21	e31	7.9
29	435	651	709	629	---	520	8.1	7.1	27	22	31	7.9
30	450	652	710	629	---	515	8.0	7.0	27	22	31	7.9
31	451	---	711	629	---	515	---	7.0	---	23	31	---
TOTAL	5189.00	19256	21874	19934	16661	18629	398.63	233.1	324.9	756	727	374.0
MEAN	167.4	641.9	705.6	643.0	595.0	600.9	13.29	7.519	10.83	24.39	23.45	12.47
MAX	451	810	736	711	629	687	343	8.0	28	27	31	38
MIN	0.00	459	654	587	568	515	0.00	7.0	6.9	20	22	6.9
AC-FT	10290	38190	43390	39540	33050	36950	791	462	644	1500	1440	742
CAL YR 2001	TOTAL	104435.00	MEAN	286.1	MAX	1530	MIN	0.00	AC-FT	207100		
WTR YR 2002	TOTAL	104356.63	MEAN	285.9	MAX	810	MIN	0.00	AC-FT	207000		

e Estimated

## SNAKE RIVER BASIN

## 13087900 MILNER LAKE AT MILNER DAM, ID

LOCATION.--Lat 42°31'25", long 114°00'47", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, near left end of Milner Dam on Snake River at Milner, at mile 639.1.

DRAINAGE AREA.--17,180 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--October 1974 to current year. Prior to October 1989, published as "Lake Milner."

GAGE.--Water-stage recorder. Datum of gage is 4,122.51 ft above NGVD of 1929. October 1974 to May 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by a concrete gravity dam constructed in 1904 with first diversions in 1905. The dam is primarily a diversion dam. Capacity is a function of the riverflow and the lake elevation at the dam. No precise limits on capacity can be set, but computations indicate 50,200 acre-ft of usable storage at a lake gage of 11.5 ft and a riverflow of 30,000 ft<sup>3</sup>/s, and 11,200 acre-ft at a gage of 1.5 ft and a riverflow of 500 ft<sup>3</sup>/s. The capacity table was revised in 1984 and extended in 2001. Dead storage is 8,000 acre-ft. Water is used for irrigation by canals diverting at the dam and by pumps from the reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 54,500 acre-ft June 25, 1997; maximum gage height, 11.55 ft, Apr. 2, 1999; minimum contents, 10,800 acre-ft Dec. 15, 1988, Mar. 3, 1992; minimum gage height, 1.24 ft, Dec. 26, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,100 acre-ft July 16; maximum gage height, 11.32 ft, June 20; minimum contents, 27,400 acre-ft Oct. 15; minimum gage height, 8.15 ft, Oct. 13.

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35800	34000	33200	32500	32700	32900	33600	35100	36900	36700	37400	36400
2	35500	34100	33300	32500	32700	32900	34100	35100	37200	36800	37400	36300
3	35600	34400	33200	32400	32600	32900	34000	34500	37000	36600	37600	36300
4	36400	34500	33300	32500	32600	33000	34100	35000	36700	36300	37400	36300
5	35800	34500	33000	32500	32700	33100	33700	35300	36800	36300	37700	36300
6	35500	33500	32500	32600	32600	33300	33300	35900	36600	36600	37700	35900
7	35200	34300	33500	32600	32700	33100	33700	35800	36300	37100	37500	36200
8	33700	34200	33600	32600	32600	33500	33900	36700	36200	37200	37300	36300
9	32800	34100	33500	32600	32700	33900	33600	36200	36300	37600	37200	36400
10	32000	33700	33400	32500	32700	33500	33700	35500	36400	37500	37100	36100
11	30200	33300	33400	32500	32600	33400	33400	35500	36700	37500	36700	35700
12	29400	33300	33400	32300	32800	34000	33000	35600	36600	37300	36700	35300
13	27800	33000	33300	32500	32800	33700	32700	35700	36500	37300	36700	35200
14	27500	33200	32800	32500	32800	34000	32200	35300	36600	37400	36500	35500
15	27400	33000	33200	32500	32800	34200	31000	35700	36600	37800	36600	35600
16	28400	32900	33300	32600	32700	34000	32800	35800	36700	38100	36600	35800
17	28600	32600	33100	32600	32600	34100	32800	36000	37000	38000	36900	35500
18	29200	32700	33000	32600	32600	33900	33000	36100	37200	37700	37000	35800
19	29900	32800	33200	32700	32400	33900	33600	35900	37800	37200	37500	35900
20	30400	32800	32900	32700	32600	34000	34400	35700	37900	37200	37800	35100
21	30700	32800	32900	32800	32600	34100	34700	35600	37100	37000	37900	35200
22	31100	32200	32900	33000	32800	33900	35000	36900	36300	37200	37600	35000
23	31100	32900	32700	32900	32600	33400	34600	37000	36000	36800	37300	34800
24	31900	33200	32700	33000	32400	33100	34700	36900	36400	36600	37300	34900
25	32300	32800	32700	32900	32900	33600	34500	36500	36600	36500	37300	35200
26	32600	32800	32600	32800	32800	33600	34200	36100	36900	36600	36900	35400
27	32900	33300	32600	32900	32900	33400	33900	35800	37100	36300	36600	35600
28	33100	33100	32600	32800	32900	33400	34000	35300	37400	36900	36400	35800
29	33400	32700	32500	32800	---	33200	33900	35000	37400	37400	36300	35300
30	33200	33300	32500	32800	---	33700	34300	35500	37000	37700	36400	35700
31	33500	---	32500	32800	---	33900	---	36200	---	37500	36500	---
MAX	36400	34500	33600	33000	32900	34200	35000	37000	37900	38100	37900	36400
MIN	27400	32200	32500	32300	32400	32900	31000	34500	36000	36300	36300	34800
†	10.80	10.75	10.52	10.59	10.62	10.88	10.58	10.71	10.87	10.98	10.81	10.89
‡	-2300	-200	-800	300	100	1000	400	1900	800	500	-1000	-800
CAL YR 2001	MAX 38100	MIN 27400	† 1300									
WTR YR 2002	MAX 38100	MIN 27400	† -100									

† Gage height, in feet, at end of month.

‡ Change in contents, in acre-feet.

SNAKE RIVER MAIN STEM

13087995 SNAKE RIVER GAGING STATION AT MILNER, ID

LOCATION.--Lat 42°31'41", long 114°01'04", in SW¼NE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft downstream from highway bridge at Milner, 0.4 mi downstream from Milner Dam, and at mile 638.7.

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Flow regulated by American Falls Reservoir, Lake Walcott, Milner Lake, and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft. The flow at this site represents discharge to Snake River passing through Milner Dam. Former station number for this gaging station, 13088000, represents combined flow to Snake River from this site and from 13087505 Lower Milner Power Plant, which began operation November 1992. Considerable water leaks into the Snake River Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres, of which about 504,000 acres are irrigated by withdrawals from ground water, and about 436,000 acres are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill stations. Prior to 1993 water year, at times, practically entire flow was diverted during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft³/s June 22, 1997, gage height, 21.14 ft; minimum daily, 0.34 ft³/s Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 394 ft³/s Sept. 5, gage height, 4.08 ft; minimum daily, 0.34 ft³/s Mar. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.63	0.56	0.61	e0.50	e0.60	0.45	0.54	0.94	0.69	0.46	230	237
2	0.62	0.54	0.66	e0.50	e0.60	0.42	0.56	5.0	0.79	0.46	232	242
3	0.61	0.57	0.66	0.63	e0.60	0.39	0.60	4.9	0.84	0.45	233	236
4	0.62	0.55	0.62	e0.60	e0.60	0.37	0.58	4.9	0.87	0.43	234	239
5	5.9	0.59	0.68	e0.60	e0.60	0.35	0.58	4.9	0.84	0.43	233	241
6	5.9	0.57	0.69	0.66	e0.60	0.34	0.57	5.3	0.80	0.45	234	237
7	4.3	0.54	0.62	0.65	0.61	0.36	0.52	5.3	0.74	0.49	234	238
8	0.81	0.54	0.52	0.64	0.62	0.38	0.58	5.7	0.69	0.50	234	237
9	0.66	0.55	0.47	0.64	0.61	0.41	0.61	6.0	0.64	0.49	234	236
10	0.60	0.54	0.45	0.63	e0.60	0.52	0.65	5.8	0.65	3.3	234	235
11	0.64	0.54	0.44	0.62	e0.50	0.64	0.65	5.4	0.69	16	234	235
12	0.50	0.53	0.43	0.63	e0.50	0.81	0.64	5.4	0.73	23	234	235
13	0.51	0.51	0.43	0.64	e0.50	1.1	0.61	3.3	0.73	5.0	235	234
14	0.46	0.52	0.56	e0.60	0.50	0.90	0.62	1.0	0.71	11	235	233
15	0.47	0.51	0.47	e0.60	0.49	0.91	0.67	0.85	0.74	241	235	232
16	0.44	0.50	0.44	e0.60	0.48	0.94	0.63	0.86	0.70	229	236	234
17	0.46	0.52	0.48	e0.60	0.48	0.91	0.75	0.85	0.68	225	236	234
18	0.47	0.53	0.47	e0.60	0.49	0.85	0.72	0.86	0.74	221	238	251
19	0.49	0.53	0.49	e0.60	0.49	0.78	0.84	0.77	0.72	220	243	235
20	0.46	0.50	0.50	0.69	0.51	0.72	0.86	0.70	0.80	222	238	235
21	0.50	0.56	e0.50	0.71	0.53	0.66	0.92	0.77	0.82	222	239	234
22	0.50	0.66	e0.50	e0.60	0.52	0.70	0.98	0.68	0.70	222	240	234
23	0.52	0.55	e0.50	e0.60	0.55	0.67	0.95	0.79	0.59	222	240	234
24	0.50	0.52	e0.50	0.65	0.56	0.59	0.86	0.92	0.52	223	239	233
25	0.51	0.54	e0.50	0.65	e0.50	0.55	0.91	0.94	0.51	222	239	233
26	0.52	0.52	e0.50	0.65	e0.50	0.56	0.89	0.82	0.50	222	240	234
27	0.51	0.54	e0.50	e0.60	0.52	0.54	0.86	0.73	0.48	224	239	234
28	0.52	0.53	e0.50	e0.60	0.48	0.49	0.82	0.66	0.46	225	239	235
29	0.54	0.70	e0.50	e0.60	---	0.51	0.80	0.62	0.46	225	247	235
30	0.56	0.68	e0.50	e0.60	---	0.50	0.85	0.61	0.47	226	238	236
31	0.61	---	e0.50	e0.60	---	0.51	---	0.61	---	229	238	---
TOTAL	31.34	16.54	16.19	19.09	15.14	18.83	21.62	76.88	20.30	3882.46	7334	7078
MEAN	1.011	0.551	0.522	0.616	0.541	0.607	0.721	2.480	0.677	125.2	236.6	235.9
MAX	5.9	0.70	0.69	0.71	0.62	1.1	0.98	6.0	0.87	241	247	251
MIN	0.44	0.50	0.43	0.50	0.48	0.34	0.52	0.61	0.46	0.43	230	232
AC-FT	62	33	32	38	30	37	43	152	40	7700	14550	14040
CAL YR 2001	TOTAL	30397.10	MEAN	83.28	MAX	249	MIN	0.43	AC-FT	60290		
WTR YR 2002	TOTAL	18530.39	MEAN	50.77	MAX	251	MIN	0.34	AC-FT	36760		

e Estimated

## SNAKE RIVER MAIN STEM

## 13088000 SNAKE RIVER AT MILNER, ID

(COMBINATION SNAKE RIVER AT MILNER GAGING STATION AND LOWER MILNER POWER PLANT AT MILNER)

LOCATION.--Lat 42°31'41", long 114°01'04", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft downstream from highway bridge at Milner, 0.4 mi downstream from Milner Dam, and at mile 638.7.

DRAINAGE AREA.--17,180 mi<sup>2</sup>, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1909-12, 1915-16, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft above NGVD of 1929. Prior to May 28, 1919, nonrecording gages at slightly different sites and datums.

REMARKS.--Flow regulated by American Falls Reservoir, Lake Walcott, Milner Lake, and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft. The flow at this site represents combined flow to Snake River from 13087995 Snake River Gaging Station at Milner and 13087505 Lower Milner Power Plant, which began operation November 1992. Considerable water leaks into the Snake River Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres, of which about 504,000 acres are irrigated by withdrawals from ground water, and about 436,000 acres are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill stations. Prior to 1993 water year, at times, practically entire flow was diverted during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1909-1926), 40,000 ft<sup>3</sup>/s June 212, 1918, gage height, 19.9 ft, site and datum then in use; minimum daily, 8.0 ft<sup>3</sup>/s Aug. 22, 1924. Maximum daily discharge since regulation began in 1927, 31,200 ft<sup>3</sup>/s June 21, 1997; minimum daily, 0.44 ft<sup>3</sup>/s Oct. 16, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 811 ft<sup>3</sup>/s Nov. 10; minimum daily, 0.44 ft<sup>3</sup>/s Oct. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.63	460	655	e710	e630	571	344	8.9	7.7	27	252	268
2	0.62	487	656	e712	e620	571	3.7	13	7.8	27	254	273
3	0.61	517	674	712	e612	571	3.6	13	7.8	27	255	267
4	0.62	528	699	e688	e606	572	5.0	13	7.9	27	257	270
5	5.9	601	700	e676	e602	573	4.3	13	7.8	27	256	279
6	5.9	685	699	680	e602	573	1.4	13	7.8	27	257	244
7	4.3	682	696	679	604	573	0.71	13	7.7	27	256	245
8	0.81	703	691	680	609	569	0.83	14	7.7	27	256	244
9	0.66	775	690	680	603	571	0.61	14	7.6	27	256	243
10	0.60	811	689	679	e604	585	0.65	14	7.7	30	256	242
11	0.64	801	713	675	e606	591	0.65	13	7.7	43	256	242
12	0.50	732	724	679	e604	563	0.64	13	7.7	50	256	242
13	0.51	693	723	679	e602	563	0.61	11	7.7	32	257	241
14	0.46	682	725	e632	603	613	0.62	8.5	7.7	36	257	240
15	0.47	666	724	e604	601	679	0.67	8.4	7.7	267	257	240
16	0.44	666	724	e588	606	688	0.63	8.3	7.7	252	258	241
17	135	663	723	e588	608	659	0.75	8.1	7.6	247	258	241
18	370	659	727	e588	607	644	0.72	8.0	7.7	244	260	258
19	297	658	728	e590	597	647	0.90	7.8	7.7	243	265	242
20	294	638	735	594	578	651	0.86	7.7	7.8	245	260	242
21	294	623	e736	596	575	656	0.92	7.9	7.8	244	261	241
22	295	624	e736	e598	575	669	0.98	8.1	7.7	244	263	242
23	294	599	e698	e604	573	676	0.95	8.1	7.6	244	263	241
24	294	581	e692	621	573	676	0.86	8.3	7.5	245	262	241
25	376	584	e696	635	e568	644	0.91	8.1	22	242	262	271
26	405	584	e698	637	e568	622	8.9	8.0	29	244	263	242
27	403	627	e700	e636	570	586	8.9	7.8	27	246	e262	242
28	403	651	e706	e630	570	541	8.8	7.8	27	246	e270	243
29	436	652	e710	e630	---	521	8.9	7.7	27	247	278	243
30	451	653	e710	e630	---	516	8.8	7.6	27	248	269	244
31	452	---	e712	e630	---	516	---	7.6	---	252	269	---
TOTAL	5222.67	19285	21889	19960	16676	18650	420.77	309.7	344.1	4634	8061	7454
MEAN	168.5	642.8	706.1	643.9	595.6	601.6	14.03	9.990	11.47	149.5	260.0	248.5
MAX	452	811	736	712	630	688	344	14	29	267	278	279
MIN	0.44	460	655	588	568	516	0.61	7.6	7.5	27	252	240
AC-FT	10360	38250	43420	39590	33080	36990	835	614	683	9190	15990	14790

SNAKE RIVER MAIN STEM

13088000 SNAKE RIVER AT MILNER, ID--Continued

(COMBINATION SNAKE RIVER AT MILNER GAGING STATION AND LOWER MILNER POWER PLANT AT MILNER)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1926, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4553	5806	4968	4620	5090	5336	6204	9891	12300	3849	743	1736
MAX	9500	8147	6978	5721	6306	10970	14650	17920	29230	15650	4899	8457
(WY)	1913	1913	1910	1910	1911	1910	1910	1910	1909	1909	1909	1912
MIN	9.45	3711	3326	2924	3737	3238	857	13.5	12.0	11.4	9.97	10.1
(WY)	1925	1920	1920	1917	1917	1920	1924	1924	1924	1915	1924	1924

SUMMARY STATISTICS <sup>a</sup> WATER YEARS 1909 - 1926

ANNUAL MEAN	5206
HIGHEST ANNUAL MEAN	8042 1913
LOWEST ANNUAL MEAN	2424 1924
HIGHEST DAILY MEAN	39800 Jun 21 1918
LOWEST DAILY MEAN	8.0 Aug 22 1924
ANNUAL SEVEN-DAY MINIMUM	8.3 Aug 21 1924
ANNUAL RUNOFF (AC-FT)	3772000
10 PERCENT EXCEEDS	11200
50 PERCENT EXCEEDS	4700
90 PERCENT EXCEEDS	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1719	2500	3137	3625	3696	3951	4884	4062	4013	886.0	457.1	544.5
MAX	9887	12660	11450	13960	18740	19930	19380	16770	23580	6069	3899	6778
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1927	1997	1997
MIN	2.39	142	281	360	213	87.0	3.95	2.81	1.65	0.75	1.63	0.97
(WY)	1991	1935	1937	1938	1938	1934	1990	1990	1992	2001	2001	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR <sup>b</sup> WATER YEARS 1927 - 2002

ANNUAL TOTAL	134838.44	122906.24	
ANNUAL MEAN	369.4	336.7	2781
HIGHEST ANNUAL MEAN			9432 1984
LOWEST ANNUAL MEAN			156 1935
HIGHEST DAILY MEAN	1530	May 15	811 Nov 10 31200 Jun 21 1997
LOWEST DAILY MEAN	0.44	Oct 16	0.44 Oct 16 0.44 Oct 16 2001
ANNUAL SEVEN-DAY MINIMUM	0.52	Oct 10	0.52 Oct 10 0.52 Oct 10 2001
ANNUAL RUNOFF (AC-FT)	267500	243800	2015000
10 PERCENT EXCEEDS	707	689	8760
50 PERCENT EXCEEDS	294	262	775
90 PERCENT EXCEEDS	0.66	4.3	13

a Prior to regulation by American Falls Dam.

b Since regulation by American Falls Dam.

e Estimated

## DEVILS WASHBOWL SPRING BASIN

## 13089500 DEVILS WASHBOWL SPRING NEAR KIMBERLY, ID

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

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

REVISED RECORDS.--WDR-ID-2001-1; 2000.

GAGE.--Water-stage recorder. Elevation of gage is 3,540 ft above NGVD of 1929, from topographic map. Datum of gage prior to May 16, 1953 was 0.82 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Irrigation return bypass channel is located downstream from the gage on the right bank.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge (1950-59), 27.5 ft<sup>3</sup>/s Oct. 3, 4, 1951; minimum daily, 18 ft<sup>3</sup>/s Apr. 29, 1958. Maximum daily discharge (1986-2002), 19 ft<sup>3</sup>/s Sept. 26, 1986, Sept. 21-24, 2000; minimum daily, 6.5 ft<sup>3</sup>/s Mar. 20, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14.1 ft<sup>3</sup>/s Nov. 16, result of current-meter measurement; minimum daily, 9.3 ft<sup>3</sup>/s Feb. 25, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	14	12	11	9.8	11	13	13	12	12	13
2	14	14	14	11	11	9.8	11	12	13	12	13	13
3	14	14	14	11	11	9.8	11	12	13	12	13	13
4	14	14	14	11	11	9.9	11	12	13	12	13	14
5	14	14	14	11	11	10	12	11	13	12	13	14
6	13	14	14	11	11	11	12	12	13	12	13	14
7	13	14	13	11	11	11	12	12	13	12	13	14
8	13	14	13	11	11	10	12	12	13	12	13	14
9	13	13	13	11	11	10	12	12	14	12	13	14
10	13	14	13	11	11	10	12	12	14	11	13	14
11	13	14	13	11	10	11	12	12	14	11	13	14
12	13	14	13	11	10	11	13	12	13	11	13	14
13	13	14	13	11	10	11	12	13	13	11	13	14
14	13	14	14	12	10	11	13	12	13	11	13	14
15	13	14	13	11	10	11	13	13	13	12	13	14
16	13	14	13	11	10	11	13	13	13	12	12	14
17	13	14	13	11	10	11	13	13	13	12	12	14
18	13	14	13	11	10	11	13	13	13	12	12	14
19	13	14	13	11	10	11	13	13	13	12	12	13
20	13	14	13	11	10	12	13	13	13	12	12	13
21	13	14	13	11	10	12	13	13	13	12	13	13
22	13	14	13	11	10	12	13	14	13	12	13	13
23	13	14	12	11	9.9	12	13	14	13	12	13	13
24	13	14	12	11	9.7	13	13	13	13	12	13	13
25	13	14	12	11	9.3	13	13	14	13	12	13	13
26	13	14	12	11	9.4	11	13	14	13	12	13	13
27	13	14	12	11	9.3	11	13	14	13	12	13	13
28	13	14	13	11	9.6	11	13	13	13	12	13	13
29	13	14	13	10	---	11	12	13	13	12	13	13
30	13	14	12	11	---	11	13	13	13	12	13	14
31	13	---	12	11	---	11	---	13	---	12	13	---
TOTAL	408	419	403	342	287.2	340.3	373	395	393	367	397	406
MEAN	13.16	13.97	13.00	11.03	10.26	10.98	12.43	12.74	13.10	11.84	12.81	13.53
MAX	14	14	14	12	11	13	13	14	14	12	13	14
MIN	13	13	12	10	9.3	9.8	11	11	13	11	12	13
AC-FT	809	831	799	678	570	675	740	783	780	728	787	805

DEVILS WASHBOWL SPRING BASIN  
 13089500 DEVILS WASHBOWL SPRING NEAR KIMBERLY, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1959, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	24.7	24.1	22.7	22.2	21.9	21.2	20.6	20.1	21.1	21.9	23.0	24.3
MAX	25.9	26.1	24.6	24.0	23.2	22.2	22.0	21.8	22.8	25.2	24.9	25.8
(WY)	1953	1953	1958	1958	1958	1952	1954	1953	1954	1957	1957	1957
MIN	22.8	22.2	20.9	20.1	20.5	19.2	19.1	18.0	19.0	19.6	20.8	22.4
(WY)	1956	1957	1957	1956	1956	1957	1956	1958	1958	1959	1959	1959

SUMMARY STATISTICS

<sup>a</sup> WATER YEARS 1950 - 1959

ANNUAL MEAN	22.3
HIGHEST ANNUAL MEAN	23.2
LOWEST ANNUAL MEAN	21.1
HIGHEST DAILY MEAN	27.5
LOWEST DAILY MEAN	18
ANNUAL SEVEN-DAY MINIMUM	18
ANNUAL RUNOFF (AC-FT)	16160
10 PERCENT EXCEEDS	25
50 PERCENT EXCEEDS	22
90 PERCENT EXCEEDS	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.10	14.51	13.40	12.60	12.05	11.96	11.99	11.68	12.35	13.00	14.01	14.85
MAX	17.5	17.8	16.9	16.2	13.9	14.1	14.1	13.8	15.2	16.7	16.7	17.9
(WY)	1987	2001	2000	2000	2000	1992	1986	1999	1999	1999	1999	1986
MIN	12.9	11.2	9.15	8.19	7.97	8.92	9.96	9.77	9.46	9.65	11.8	12.5
(WY)	1993	1995	1993	1993	1995	1993	1998	1996	1995	1995	1995	1992

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1986 - 2002

ANNUAL TOTAL	4906	4530.5	
ANNUAL MEAN	13.44	12.41	13.13
HIGHEST ANNUAL MEAN			14.7
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	16	Jan 1	14
LOWEST DAILY MEAN	12	Mar 31	9.3
ANNUAL SEVEN-DAY MINIMUM	12	Mar 31	9.6
ANNUAL RUNOFF (AC-FT)	9730	8990	9510
10 PERCENT EXCEEDS	14	14	16
50 PERCENT EXCEEDS	13	13	13
90 PERCENT EXCEEDS	13	11	10

<sup>a</sup> Statistics for this period may not be comparable due to changes in inflow.



## SNAKE RIVER MAIN STEM

## 13090000 SNAKE RIVER NEAR KIMBERLY, ID

LOCATION.--Lat 42°35'28", long 114°21'34", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.4, T.10 S., R.18 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 1,200 ft downstream from Twin Falls powerplant, 2.4 mi upstream from Shoshone Falls, 4 mi north of Kimberly, and at mile 617.2.

PERIOD OF RECORD.--July 1923 to current year.

REVISED RECORDS.--WSP 1347: 1924-26, 1928-30, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 3,362.67 ft above NGVD of 1929 (levels by Idaho Power Co.). Prior to Aug. 31, 1938, at site 2,000 ft downstream at different datum.

REMARKS.--Flow regulated by American Falls Reservoir 96.5 mi upstream and other reservoirs having a combined usable capacity of 4,700,000 acre-ft. Diurnal fluctuation caused by hydroelectric powerplant 1,200 ft upstream. At times practically the entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly. Diversion above station for irrigation of about 2,020,000 acres, of which about 537,000 acres are irrigated by withdrawals from ground water and about 364,000 acres are irrigated below the station. Considerable water leaks into the Snake River Plain aquifer upstream, a small part of which returns through springs a few miles above station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,200 ft<sup>3</sup>/s June 21, 1997, gage height, 23.27 ft; minimum recorded, 10 ft<sup>3</sup>/s May 17, 1944, gage height, 1.15 ft; minimum daily recorded, 95 ft<sup>3</sup>/s Apr. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,110 ft<sup>3</sup>/s Nov. 9; minimum, 185 ft<sup>3</sup>/s Apr. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	784	937	969	867	795	743	210	260	289	581	628
2	385	796	943	967	867	792	500	212	258	300	585	638
3	433	827	949	972	849	791	250	240	290	309	584	636
4	336	848	960	961	846	791	231	215	255	305	604	611
5	378	869	978	932	837	792	223	228	232	309	607	627
6	379	942	985	935	836	811	208	209	264	310	604	644
7	379	1040	982	932	838	850	197	260	274	315	598	658
8	378	945	970	932	839	833	198	211	282	322	604	647
9	376	1110	969	932	833	799	193	244	241	322	606	643
10	380	1090	969	930	835	795	210	257	256	316	606	637
11	378	1100	973	925	835	813	205	253	279	309	602	635
12	368	1100	990	924	835	807	185	215	256	325	607	636
13	365	970	1030	923	833	795	195	208	264	327	602	625
14	366	996	992	920	832	791	193	231	272	356	599	621
15	349	974	995	857	830	863	188	216	250	370	593	630
16	339	964	997	842	831	910	193	245	239	508	597	631
17	328	964	999	832	833	909	210	218	262	598	603	638
18	454	961	998	831	834	872	203	244	255	581	610	637
19	687	958	999	832	835	869	201	233	262	579	616	642
20	650	956	1000	833	827	868	200	212	251	580	608	628
21	645	929	996	840	816	869	218	242	269	585	601	623
22	671	938	998	836	811	878	209	243	311	591	601	623
23	615	915	995	841	820	901	197	250	285	584	601	630
24	636	879	960	845	824	904	211	235	264	579	609	625
25	645	873	965	869	815	894	191	238	264	576	622	626
26	735	876	966	874	808	852	218	234	275	572	625	629
27	742	875	970	875	795	833	213	237	278	569	624	628
28	740	934	969	872	798	787	219	250	283	578	614	627
29	742	960	971	870	---	744	221	235	299	587	612	630
30	785	938	970	868	---	736	214	250	293	586	620	635
31	801	---	971	868	---	730	---	245	---	584	616	---
TOTAL	15858	28311	30346	27639	23259	25674	7037	7220	8023	14021	18761	18968
MEAN	511.5	943.7	978.9	891.6	830.7	828.2	234.6	232.9	267.4	452.3	605.2	632.3
MAX	801	1110	1030	972	867	910	743	260	311	598	625	658
MIN	328	784	937	831	795	730	185	208	232	289	581	611
AC-FT	31450	56150	60190	54820	46130	50920	13960	14320	15910	27810	37210	37620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

MEAN	2184	2973	3541	3993	4080	4244	5105	4393	4335	1314	882.1	1007
MAX	10450	13240	12030	14850	18330	19430	18830	18230	24150	6573	4261	7039
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1927	1997	1997
MIN	386	536	632	699	549	332	235	233	267	315	336	394
(WY)	1978	1935	1937	1938	1938	1991	2002	2002	2002	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1924 - 2002
ANNUAL TOTAL	246656	225117	
ANNUAL MEAN	675.8	616.8	3162
HIGHEST ANNUAL MEAN			10210
LOWEST ANNUAL MEAN			511
HIGHEST DAILY MEAN	1900	1110	33500
LOWEST DAILY MEAN	293	185	95
ANNUAL SEVEN-DAY MINIMUM	303	195	195
ANNUAL RUNOFF (AC-FT)	489200	446500	2291000
10 PERCENT EXCEEDS	978	965	8980
50 PERCENT EXCEEDS	546	628	1200
90 PERCENT EXCEEDS	352	226	408

BLUE LAKES SPRING BASIN

13090999 BLUE LAKES SPRING BELOW PUMPING PLANT NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE¼NW¼SE¼ sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 1,000 ft downstream from head of spring, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,292 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records fair. Discharge record at this site represents flows remaining after diversion at head of spring for Twin Falls City water supply (Blue Lakes Spring Pumping Plant - station 13090998), which began July 1994. Combined flows of daily discharge continue to be published as 13091000 Blue Lakes Spring near Twin Falls, ID.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 188 ft³/s Oct. 29, 1998; minimum, 108 ft³/s, July 14, 1995, from current meter measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 177 ft³/s Dec. 9, 13, 18, 21-24; minimum daily, 123 ft³/s May 16, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	167	174	175	159	155	151	139	133	132	134	153
2	161	169	175	173	157	159	150	138	142	134	133	150
3	156	165	175	171	158	151	148	138	135	130	141	150
4	158	165	175	171	157	153	144	133	130	137	150	147
5	164	169	175	169	154	153	145	135	128	135	145	147
6	166	169	173	170	156	155	148	132	129	137	145	149
7	166	164	174	168	154	155	146	138	127	135	142	148
8	163	167	176	169	155	156	143	136	138	127	143	156
9	167	167	177	169	156	156	146	137	140	130	143	154
10	165	169	175	169	156	158	146	135	136	127	149	153
11	167	170	175	168	155	157	146	135	131	129	149	152
12	166	169	175	168	157	160	143	132	127	124	145	154
13	167	169	177	168	158	156	141	127	128	126	140	152
14	166	169	176	167	158	155	142	125	124	132	141	153
15	166	169	176	165	159	158	146	130	130	130	147	152
16	166	169	175	165	158	158	147	123	131	137	142	151
17	166	170	173	165	158	158	145	128	124	133	146	157
18	167	170	177	165	159	155	148	128	139	133	148	156
19	166	171	176	165	159	158	144	129	134	133	142	160
20	166	172	176	165	159	155	145	129	133	135	143	154
21	167	172	177	166	160	155	147	144	135	136	143	156
22	166	173	177	166	159	154	141	142	135	135	144	160
23	167	173	177	164	156	156	144	138	137	138	141	157
24	166	176	177	163	156	156	141	132	129	133	143	159
25	167	176	176	161	158	155	139	133	129	135	143	159
26	165	173	174	161	158	152	136	135	128	136	142	161
27	166	171	174	161	156	152	139	133	132	139	146	158
28	166	172	171	161	156	152	142	132	127	142	150	160
29	165	175	173	161	---	152	135	129	132	134	152	161
30	165	174	172	155	---	153	142	123	132	136	146	162
31	166	---	173	161	---	152	---	124	---	133	153	---
TOTAL	5117	5104	5426	5145	4401	4810	4320	4112	3955	4133	4471	4641
MEAN	165.1	170.1	175.0	166.0	157.2	155.2	144.0	132.6	131.8	133.3	144.2	154.7
MAX	167	176	177	175	160	160	151	144	142	142	153	162
MIN	156	164	171	155	154	151	135	123	124	124	133	147
AC-FT	10150	10120	10760	10210	8730	9540	8570	8160	7840	8200	8870	9210
CAL YR 2001	TOTAL 57906	MEAN 158.6	MAX 177	MIN 130	AC-FT 114900							
WTR YR 2002	TOTAL 55635	MEAN 152.4	MAX 177	MIN 123	AC-FT 110400							

BLUE LAKES SPRING BASIN

13090999 BLUE LAKES SPRING BELOW PUMPING PLANT NEAR TWIN FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-1950, 1952-1958, 1962-1980, 1984 to 2002 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May to August 1994, June to September 1996, May to September 1999, December 2001 to November 2002 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.8 °C Aug. 24, 26, 1999; minimum, 15.1 °C Feb. 25, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.1 °C Aug. 13-15; minimum, 15.1 °C Feb. 25.

REMARKS.--Water quality data prior to 2000 published as Blue Lakes Spring near Twin Falls, ID (sta. 13091000). Missing data due to equipment malfunction.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-AIRE (DEG C) (00020)	TEMPER-AURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
APR 24...	1145	128	560	8.1	10.0	15.7	.5	9.3	104	<1
MAY 28...	1000	128	576	7.9	22.0	15.7	1.5	8.5	97	S2
JUN 25...	0945	132	599	7.8	26.5	15.6	.5	8.4	96	S1

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
APR 24...	<.015	<.10	1.91	.010	.015
MAY 28...	<.015	E.06	1.87	.013	.017
JUN 25...	<.015	E.07	1.85	.012	.014

< Less than  
E Estimated value  
S Most probable value

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

DAY	DECEMBER			JANUARY			FEBRUARY			MARCH		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	15.7	15.4	15.5	15.5	15.4	15.4	15.9	15.4	15.5
2	---	---	---	15.5	15.4	15.5	15.9	15.4	15.5	15.9	15.4	15.5
3	---	---	---	15.7	15.4	15.5	15.9	15.2	15.4	15.9	15.2	15.5
4	---	---	---	15.5	15.4	15.5	15.9	15.2	15.5	15.9	15.2	15.5
5	---	---	---	15.7	15.4	15.5	15.9	15.2	15.4	15.9	15.4	15.5
6	---	---	---	15.7	15.4	15.5	15.9	15.2	15.4	15.9	15.5	15.6
7	---	---	---	15.5	15.4	15.5	15.7	15.4	15.4	15.9	15.2	15.5
8	---	---	---	15.7	15.4	15.5	15.9	15.2	15.5	15.7	15.2	15.4
9	---	---	---	15.5	15.5	15.5	15.9	15.4	15.5	15.7	15.2	15.4
10	---	---	---	15.7	15.4	15.5	15.7	15.2	15.4	15.7	15.4	15.5
11	---	---	---	15.7	15.4	15.5	15.9	15.4	15.5	15.7	15.5	15.6
12	---	---	---	15.7	15.4	15.5	15.9	15.2	15.5	15.7	15.5	15.5
13	---	---	---	15.7	15.4	15.5	15.7	15.2	15.4	15.7	15.2	15.4
14	---	---	---	15.7	15.4	15.5	15.9	15.2	15.5	16.0	15.4	15.5
15	---	---	---	15.5	15.4	15.4	15.9	15.2	15.4	16.2	15.4	15.6
16	---	---	---	15.7	15.4	15.5	15.9	15.4	15.5	16.2	15.4	15.6
17	---	---	---	15.7	15.4	15.4	16.0	15.4	15.6	16.3	15.4	15.6
18	---	---	---	15.7	15.4	15.4	15.9	15.4	15.6	16.8	15.4	15.6
19	---	---	---	15.5	15.4	15.5	15.7	15.4	15.5	16.0	15.4	15.6
20	---	---	---	15.5	15.4	15.5	16.0	15.5	15.6	16.2	15.4	15.7
21	15.5	15.5	15.5	15.9	15.2	15.5	16.0	15.4	15.5	16.0	15.4	15.6
22	15.5	15.4	15.4	15.7	15.4	15.5	16.0	15.4	15.5	16.2	15.4	15.6
23	15.7	15.4	15.4	15.7	15.4	15.5	16.0	15.4	15.5	15.7	15.4	15.5
24	15.5	15.4	15.4	15.9	15.4	15.5	16.0	15.2	15.5	16.0	15.4	15.6
25	15.5	15.4	15.4	15.5	15.4	15.5	16.0	15.1	15.5	15.9	15.4	15.6
26	15.5	15.2	15.4	15.7	15.4	15.5	15.9	15.2	15.5	16.0	15.4	15.6
27	15.7	15.4	15.5	15.7	15.4	15.5	16.2	15.4	15.6	15.9	15.4	15.6
28	15.7	15.4	15.5	15.9	15.4	15.5	15.9	15.4	15.5	15.9	15.4	15.6
29	15.7	15.4	15.4	15.9	15.2	15.4	---	---	---	15.9	15.4	15.6
30	15.7	15.4	15.5	15.7	15.2	15.4	---	---	---	16.0	15.4	15.6
31	15.5	15.4	15.5	15.7	15.4	15.4	---	---	---	16.2	15.5	15.7
MONTH	---	---	---	15.9	15.2	15.5	16.2	15.1	15.5	16.8	15.2	15.6

BLUE LAKES SPRING BASIN

13090999 BLUE LAKES SPRING BELOW PUMP PLANT NEAR TWIN FALLS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

DAY	APRIL			MAY			JUNE			JULY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.2	15.4	15.6	16.0	15.5	15.6	16.3	15.5	15.8	16.7	15.6	15.9
2	16.0	15.4	15.6	16.2	15.5	15.7	16.5	15.5	15.8	16.7	15.6	15.9
3	16.0	15.5	15.7	16.0	15.5	15.6	16.5	15.5	15.8	16.7	15.6	16.0
4	16.2	15.4	15.7	16.0	15.4	15.7	16.5	15.5	15.8	16.7	15.6	15.9
5	16.2	15.4	15.7	16.0	15.5	15.6	16.5	15.5	15.9	16.7	15.6	15.9
6	16.0	15.4	15.6	16.0	15.5	15.7	16.5	15.5	15.8	16.7	15.6	15.9
7	16.0	15.4	15.6	15.7	15.2	15.5	16.2	15.5	15.8	16.7	15.6	16.0
8	16.0	15.5	15.7	16.0	15.4	15.6	16.2	15.4	15.7	16.7	15.6	15.9
9	15.9	15.5	15.6	16.0	15.4	15.6	16.2	15.4	15.7	---	---	---
10	16.0	15.5	15.6	16.0	15.5	15.6	16.3	15.5	15.7	---	---	---
11	16.0	15.5	15.6	16.2	15.5	15.7	16.5	15.5	15.8	---	---	---
12	16.0	15.5	15.7	16.2	15.5	15.7	16.5	15.5	15.9	---	---	---
13	16.0	15.5	15.7	16.2	15.4	15.7	16.6	15.5	15.9	---	---	---
14	16.0	15.5	15.7	16.0	15.5	15.7	16.6	15.5	15.9	---	---	---
15	15.5	15.2	15.4	16.0	15.4	15.7	16.6	15.5	15.9	---	---	---
16	15.9	15.4	15.5	16.2	15.5	15.7	16.6	15.5	15.9	---	---	---
17	15.9	15.4	15.5	16.2	15.5	15.7	16.5	15.5	15.9	---	---	---
18	15.9	15.4	15.5	16.0	15.5	15.7	16.5	15.5	15.8	---	---	---
19	16.0	15.5	15.6	16.2	15.5	15.7	16.6	15.5	15.8	---	---	---
20	16.0	15.5	15.6	16.0	15.5	15.6	16.5	15.5	15.8	---	---	---
21	15.9	15.5	15.6	15.5	15.4	15.5	16.6	15.5	15.9	---	---	---
22	16.0	15.5	15.7	16.2	15.4	15.6	16.5	15.5	15.8	---	---	---
23	15.9	15.4	15.6	16.0	15.4	15.7	16.6	15.5	15.9	---	---	---
24	16.3	15.4	15.7	16.2	15.5	15.8	16.6	15.5	15.9	---	---	---
25	16.0	15.4	15.7	16.3	15.5	15.8	16.8	15.7	15.9	---	---	---
26	16.0	15.5	15.6	16.2	15.5	15.7	16.8	15.6	15.9	---	---	---
27	16.0	15.5	15.6	16.3	15.5	15.8	16.8	15.6	15.9	---	---	---
28	16.3	15.5	15.8	16.5	15.5	15.8	16.7	15.6	15.9	---	---	---
29	16.5	15.5	15.7	16.6	15.5	15.9	16.7	15.6	15.9	---	---	---
30	16.2	15.5	15.6	16.6	15.5	15.9	16.7	15.6	15.9	---	---	---
31	---	---	---	16.5	15.5	15.9	---	---	---	---	---	---
MONTH	16.5	15.2	15.6	16.6	15.2	15.7	16.8	15.4	15.8	---	---	---

DAY	AUGUST			SEPTEMBER			OCTOBER			NOVEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	16.8	15.6	15.9	15.8	15.5	15.6	15.8	15.5	15.6
2	---	---	---	16.9	15.6	16.0	15.8	15.5	15.6	15.8	15.3	15.5
3	---	---	---	16.8	15.6	15.8	15.8	15.5	15.6	15.8	15.3	15.5
4	---	---	---	16.8	15.6	15.9	16.0	15.6	15.7	15.8	15.3	15.6
5	---	---	---	16.6	15.6	15.8	16.0	15.5	15.7	---	---	---
6	---	---	---	16.4	15.6	15.8	16.1	15.5	15.7	---	---	---
7	---	---	---	16.3	15.6	15.8	16.1	15.5	15.7	---	---	---
8	16.4	15.6	15.8	16.6	15.6	15.9	16.1	15.5	15.7	---	---	---
9	16.4	15.6	15.8	16.8	15.6	15.9	16.1	15.5	15.7	---	---	---
10	16.6	15.6	15.9	16.8	15.5	15.9	16.0	15.5	15.6	---	---	---
11	16.4	15.6	15.9	16.6	15.6	15.8	16.3	15.5	15.6	---	---	---
12	16.4	15.6	15.9	16.4	15.6	15.8	16.1	15.5	15.6	---	---	---
13	17.1	15.6	16.0	16.1	15.6	15.8	16.1	15.5	15.7	---	---	---
14	17.1	15.6	16.0	16.1	15.5	15.7	16.4	15.5	15.7	---	---	---
15	17.1	15.6	16.0	16.1	15.5	15.7	16.4	15.5	15.7	---	---	---
16	16.9	15.6	16.0	16.0	15.6	15.7	16.1	15.5	15.6	---	---	---
17	16.9	15.6	16.0	16.0	15.5	15.7	16.4	15.5	15.7	---	---	---
18	16.9	15.6	16.0	16.1	15.5	15.7	16.3	15.5	15.7	---	---	---
19	16.9	15.5	16.0	16.1	15.6	15.7	16.0	15.5	15.6	---	---	---
20	16.9	15.6	15.9	16.1	15.6	15.7	16.0	15.5	15.6	---	---	---
21	16.9	15.6	15.9	16.0	15.5	15.7	16.1	15.5	15.6	---	---	---
22	16.8	15.6	15.9	16.1	15.5	15.7	16.0	15.6	15.7	---	---	---
23	16.8	15.6	15.8	16.1	15.5	15.7	16.0	15.5	15.6	---	---	---
24	16.9	15.6	16.0	16.4	15.5	15.8	16.1	15.5	15.6	---	---	---
25	16.9	15.6	16.0	16.3	15.6	15.8	16.1	15.5	15.6	---	---	---
26	16.9	15.6	15.9	16.3	15.5	15.7	15.8	15.5	15.6	---	---	---
27	16.9	15.6	15.9	16.1	15.6	15.7	16.1	15.5	15.6	---	---	---
28	16.9	15.6	15.9	16.3	15.5	15.7	16.1	15.5	15.6	---	---	---
29	16.9	15.6	16.0	16.0	15.5	15.6	16.3	15.5	15.6	---	---	---
30	16.8	15.6	15.9	16.1	15.5	15.7	15.5	15.5	15.5	---	---	---
31	16.9	15.6	15.9	---	---	---	15.8	15.5	15.5	---	---	---
MONTH	---	---	---	16.9	15.5	15.8	16.4	15.5	15.6	---	---	---

## BLUE LAKES SPRING BASIN

## 13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 1,000 ft downstream from head of spring, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

PERIOD OF RECORD.--April 1950 to current year.

REVISED RECORDS.--WDR-ID-00-1: 1999

REMARKS.--Records fair. Discharge record at this site represents combined flow for Blue Lakes Spring Pumping Plant (station 13090998), which provides water to the City of Twin Falls beginning July 1994, and Blue Lakes Spring below Pumping Plant near Twin Falls (station 13090999).

COOPERATION.--City of Twin Falls.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft<sup>3</sup>/s Nov. 10, 11, 1951, Oct. 24 to Nov. 13, 1952, Sept. 29, 30, 1953, Oct. 23, 24, 1957; minimum daily, 142 ft<sup>3</sup>/s Mar. 29 to Apr. 3, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 179 ft<sup>3</sup>/s Dec. 3, 4, 8-10, 13, 14, 17-23; minimum daily, 148 ft<sup>3</sup>/s May 14, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	173	177	175	163	161	158	153	152	156	160	168
2	176	174	177	175	161	160	157	151	155	158	160	168
3	175	173	179	174	160	160	156	152	154	157	160	169
4	175	173	179	172	160	160	154	151	153	158	163	168
5	175	172	178	172	160	160	155	151	154	159	162	168
6	176	173	178	172	159	160	155	150	153	158	162	169
7	176	171	178	171	159	160	155	152	153	159	162	168
8	176	171	179	170	159	160	155	153	155	157	162	169
9	176	171	179	170	157	161	154	154	156	157	162	168
10	176	173	179	170	159	163	155	152	156	157	163	168
11	176	172	178	170	158	162	153	153	155	157	163	168
12	176	172	178	170	159	163	153	151	154	156	163	169
13	176	172	179	169	160	163	153	150	155	156	162	169
14	176	172	179	168	160	162	152	148	153	158	162	168
15	176	173	178	167	161	164	154	150	154	158	164	170
16	176	173	178	167	161	163	155	148	155	158	163	169
17	176	172	179	167	160	164	155	150	154	158	164	171
18	175	172	179	167	160	162	155	150	156	159	164	170
19	176	174	179	167	160	160	153	151	157	159	163	172
20	175	174	179	167	160	160	153	150	157	159	164	170
21	176	174	179	167	160	160	154	156	157	159	164	170
22	175	174	179	167	160	159	153	156	157	159	167	174
23	175	174	179	166	160	160	153	155	157	159	166	173
24	175	177	178	165	160	160	153	153	155	159	166	173
25	175	177	177	163	161	160	154	154	155	158	166	173
26	174	176	177	163	163	159	151	153	155	159	166	173
27	174	175	176	163	162	157	151	153	157	160	166	173
28	174	176	176	163	161	158	153	153	155	161	166	174
29	174	177	175	163	---	157	150	153	156	160	168	174
30	174	176	175	164	---	158	152	150	157	160	167	174
31	175	---	174	163	---	157	---	150	---	160	169	---
TOTAL	5436	5206	5514	5207	4483	4973	4614	4706	4652	4908	5079	5110
MEAN	175.4	173.5	177.9	168.0	160.1	160.4	153.8	151.8	155.1	158.3	163.8	170.3
MAX	176	177	179	175	163	164	158	156	157	161	169	174
MIN	174	171	174	163	157	157	150	148	152	156	160	168
AC-FT	10780	10330	10940	10330	8890	9860	9150	9330	9230	9740	10070	10140

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

MEAN	211.2	208.6	202.3	196.9	193.1	190.3	188.4	187.2	187.9	193.3	198.7	205.7
MAX	252	251	243	237	235	235	231	227	229	231	240	249
(WY)	1953	1953	1951	1952	1953	1953	1953	1951	1954	1954	1953	1953
MIN	161	159	155	152	146	144	144	148	148	153	157	162
(WY)	1993	1993	1993	1994	1994	1994	1994	1992	1992	1992	1993	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1950 - 2002
ANNUAL TOTAL	61786	59888	
ANNUAL MEAN	169.3	164.1	196.2
HIGHEST ANNUAL MEAN			237
LOWEST ANNUAL MEAN			157
HIGHEST DAILY MEAN	179	Dec 3	256
LOWEST DAILY MEAN	158	Jun 2	142
ANNUAL SEVEN-DAY MINIMUM	160	May 28	142
ANNUAL RUNOFF (AC-FT)	122600	118800	142100
10 PERCENT EXCEEDS	177	176	228
50 PERCENT EXCEEDS	169	162	197
90 PERCENT EXCEEDS	162	153	162

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID

LOCATION.--Lat 42°33'47", long 114°29'42", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec.17, T.10 S., R.17 E., Twin Falls County, Hydrologic Unit 17040212, on right bank 40 ft above private road bridge, 0.2 mi south of Highway 30/93 in Twin Falls.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,630 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow partially regulated by many diversions upstream for irrigation and irrigation-return flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 529 ft<sup>3</sup>/s June 2, 1999; minimum daily, 26 ft<sup>3</sup>/s Apr. 2, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 145 ft<sup>3</sup>/s May 8; minimum daily, 37 ft<sup>3</sup>/s Feb. 16, Mar. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	86	57	45	41	39	58	122	67	79	91	117
2	122	84	59	45	42	38	61	125	74	77	95	124
3	123	82	58	45	40	37	64	116	79	80	99	126
4	128	81	56	44	40	38	65	120	80	79	97	116
5	127	80	54	43	39	39	65	128	77	81	95	115
6	128	79	57	43	38	40	67	135	72	81	92	125
7	126	76	56	45	40	42	73	135	76	88	93	139
8	126	74	53	46	40	42	76	145	75	79	88	141
9	124	74	52	47	39	41	74	134	82	74	92	137
10	130	73	51	47	38	42	74	112	86	73	97	136
11	139	73	50	46	38	42	77	103	81	75	95	133
12	137	72	49	46	38	43	77	85	81	75	95	129
13	136	71	49	45	38	43	79	75	80	73	93	127
14	133	69	56	45	38	44	85	72	82	74	91	129
15	131	69	54	44	38	44	106	79	86	78	90	135
16	130	68	50	43	37	44	125	77	82	79	90	132
17	123	67	50	44	39	45	120	74	84	79	93	125
18	117	65	49	43	39	45	104	80	85	83	96	128
19	117	64	49	43	39	45	94	80	90	84	100	128
20	109	63	49	43	39	45	92	82	91	84	101	129
21	103	64	49	44	39	45	85	109	87	86	100	127
22	101	69	48	43	39	46	84	121	83	85	100	131
23	100	64	47	43	40	48	85	107	84	89	103	131
24	97	64	46	43	40	50	95	97	83	87	105	129
25	92	63	46	43	39	52	102	86	79	90	109	135
26	90	59	45	43	39	52	108	76	77	88	108	134
27	90	57	46	43	39	52	109	77	80	93	108	131
28	87	58	46	42	40	53	110	72	81	94	114	130
29	86	61	47	41	---	53	106	71	82	95	118	132
30	88	58	46	39	---	54	112	69	81	95	118	137
31	89	---	46	40	---	55	---	65	---	93	120	---
TOTAL	3549	2087	1570	1356	1095	1398	2632	3029	2427	2570	3086	3888
MEAN	114.5	69.57	50.65	43.74	39.11	45.10	87.73	97.71	80.90	82.90	99.55	129.6
MAX	139	86	59	47	42	55	125	145	91	95	120	141
MIN	86	57	45	39	37	37	58	65	67	73	88	115
AC-FT	7040	4140	3110	2690	2170	2770	5220	6010	4810	5100	6120	7710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
MEAN	150.1	90.06	63.80	60.89	74.98	121.3	152.6	200.0	139.7	120.2	140.3	164.1
MAX	211	142	85.5	132	130	228	282	319	234	151	167	188
(WY)	1996	1998	1997	1997	1998	1997	1997	1999	1995	1997	1997	1993
MIN	114	67.6	50.6	42.2	39.1	39.8	57.5	60.5	80.9	82.9	94.4	117
(WY)	2002	1993	2002	2001	2002	2001	2001	2001	2002	2002	2001	2001

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1993 - 2002
ANNUAL TOTAL	26684	28687	
ANNUAL MEAN	73.11	78.59	123.4
HIGHEST ANNUAL MEAN			175
LOWEST ANNUAL MEAN			77.7
HIGHEST DAILY MEAN	139	145	487
LOWEST DAILY MEAN	36	37	26
ANNUAL SEVEN-DAY MINIMUM	36	38	30
ANNUAL RUNOFF (AC-FT)	52930	56900	89390
10 PERCENT EXCEEDS	116	127	210
50 PERCENT EXCEEDS	67	79	114
90 PERCENT EXCEEDS	39	41	48

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID--Continued  
(National water-quality assessment station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

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

WATER TEMPERATURE: April 1993 to September 1994, July to September 1996, June to September 1997, June to August 1998, June to September 2002.

INSTRUMENTATION.--Water-quality monitor and data logger from April 1993 to September 1994. Temperature recording data logger from July to September 1996, June to September 1997, June to August 1998, June to September 2002.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1880 microsiemens March 29, 1994; minimum, 236 microsiemens May 15, 1993.

WATER TEMPERATURE: Maximum, 22.9 °C July 19, 1998; minimum, 1.0 °C Feb. 13, 1994.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 21.4 °C June 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	BICAR-BONATE WAT.DIS FET HCO3 (MG/L) (29804)	ALKA-LINITY WAT DIS FIELD MG/L AS CACO3 (00418)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-POS WAT FLT (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER, FLTRD (UG/L) (82680)	CARBO-FURAN WATER, FLTRD (UG/L) (82674)
OCT	10...	0900	130	725	8.3	5.0	9.9	9.1	91	312	256	86.2	36.5	.017
NOV	14...	0915	68	812	8.4	8.0	10.6	8.5	87	311	256	103	40.1	.039
DEC	12...	1100	49	807	8.4	-1.0	6.6	10.2	94	305	252	103	41.2	.052
JAN	22...	1000	43	694	8.4	-3.0	4.3	11.1	98	267	220	92.5	34.5	.029
FEB	22...	0930	39	707	8.0	3.0	5.6	11.6	104	273	226	92.9	36.5	.018
MAR	19...	0915	45	683	8.3	5.0	5.5	11.2	101	250	205	84.9	33.7	.020
APR	15...	1300	111	310	8.2	5.0	9.1	9.5	95	116	95	31.6	12.9	.023
MAY	15...	1000	80	475	8.3	14.0	10.3	9.1	93	185	153	55.1	25.5	.018
JUN	12...	0900	83	633	8.3	14.0	12.7	8.4	90	245	204	74.4	34.5	.018
JUL	15...	1015	77	713	8.1	25.0	17.3	7.4	88	272	227	86.2	37.8	.019
SEP	17...	0930	123	741	8.1	12.0	13.9	8.1	90	279	231	86.5	35.3	.022
OCT	10...	1.97	E.03	.32	.054	.04	--	--	--	--	--	--	--	--
NOV	14...	2.77	E.03	.29	.039	.03	<.002	E.008	E.007	<.050	<.010	<.002	<.041	<.020
DEC	12...	2.83	.05	.32	.045	.02	--	--	--	--	--	--	--	--
JAN	22...	2.42	.06	.29	.048	.05	<.004	E.006	<.007	<.050	<.010	<.002	<.041	<.020
FEB	22...	2.23	<.04	.31	.048	.02	--	--	--	--	--	--	--	--
MAR	19...	1.87	<.04	.42	.066	E.02	<.004	E.004	<.007	<.050	<.010	<.002	<.041	<.020
APR	15...	.83	.15	2.0	.41	.05	<.004	<.006	<.007	<.050	<.010	<.002	<.041	<.020
MAY	15...	.91	.07	.65	.176	.07	<.004	<.006	<.007	<.050	<.010	<.002	<.041	<.020
JUN	12...	1.28	.07	.54	.119	.06	<.004	E.007	<.007	<.050	<.010	<.002	<.041	<.020
JUL	15...	1.74	<.04	.33	.058	.03	<.004	E.007	<.008	<.050	<.010	<.002	<.041	<.020
SEP	17...	2.21	<.04	.37	.075	.05	<.004	<.010	<.007	<.050	<.010	<.002	E.052	<.020

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (04041)	DCPA WATER FLTRD 0.7 U GF, REC (82682)	P,P' DDE (34653)	DI- AZINON, DIS- SOLVED (39572)	DI- ELDRIN DIS- SOLVED (39381)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (82660)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (82677)	EPTC WATER FLTRD 0.7 U GF, REC (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (82672)	FONOFOS WATER DISS REC (04095)	ALPHA BHC DIS- SOLVED (34253)
	OCT 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.02	<.002	<.009	<.005	<.003	<.005
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.180	<.009	<.005	<.003	<.005
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.002	<.009	<.005	<.003	<.005
APR 15...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.002	<.009	<.005	<.003	<.005
MAY 15...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.002	<.009	<.005	<.003	<.005
JUN 12...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	.021	E.002	<.005	<.003	<.005
JUL 15...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.041	<.009	<.005	<.003	<.005
SEP 17...	<.005	<.018	<.003	<.003	<.005	<.005	<.006	<.02	<.007	<.009	<.005	<.003	<.005

Date	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (82666)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER (39415)	METRI- BUZIN WATER SOLVED (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (82684)	PARA- THON, DIS- SOLVED (UG/L) (39542)	METHYL PARA- THON WAT FLT 0.7 U GF, REC (82667)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (82664)
	OCT 10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 14...	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007	<.006	<.002	<.010	<.006	<.011
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<.008	<.035	<.027	<.013	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
APR 15...	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
MAY 15...	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
JUN 12...	<.004	<.035	<.027	E.003	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
JUL 15...	<.004	<.035	<.027	E.003	<.006	<.002	<.007	<.010	<.006	<.004	<.022	<.006	<.011
SEP 17...	<.004	<.035	<.027	<.013	<.006	<.010	<.007	<.010	<.006	<.004	<.022	<.006	<.011



ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER, FLTRD GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, REC (UG/L) (04024)	PRO-PANIL WATER, FLTRD GF, REC (UG/L) (82679)	PRO-PARGITE WATER, FLTRD GF, REC (UG/L) (82685)	SI-MAZINE, WATER, REC (UG/L) (04035)	TEBU-THIURON WATER, FLTRD GF, REC (UG/L) (82670)	TER-BACIL WATER, FLTRD GF, REC (UG/L) (82665)	TER-BUFOS WATER, FLTRD GF, REC (UG/L) (82675)	THIO-BENCARB WATER, FLTRD GF, REC (UG/L) (82681)	TRIAL-LATE WATER, FLTRD GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--	--	20
NOV 14...	<.01	<.004	<.010	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009	5.0
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	9.0
JAN 22...	<.01	<.010	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	22
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--	14
MAR 19...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	10
APR 15...	<.02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	301
MAY 15...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	82
JUN 12...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	33
JUL 15...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	13
SEP 17...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	16

< Less than  
E Estimated value

WATER TEMPERATURE, DEGREES CELSIUS, JUNE TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.6	16.2	17.8	18.5	16.5	17.5	18.8	14.8	16.8	17.3	14.6	16.1
2	18.5	15.0	16.6	18.0	15.9	17.1	19.8	16.5	17.9	17.8	14.6	16.2
3	18.9	13.6	16.4	18.8	16.9	17.7	18.5	16.1	17.3	17.3	14.6	16.2
4	19.6	14.3	16.9	18.6	16.7	17.6	18.8	15.6	17.3	17.2	15.1	16.3
5	20.6	15.0	17.8	18.0	16.1	17.0	18.5	15.0	16.9	17.2	15.3	16.1
6	20.1	15.4	17.9	18.3	16.7	17.5	18.3	14.8	16.6	16.7	15.1	15.9
7	18.5	14.2	16.5	18.9	17.0	17.9	17.2	14.5	16.1	15.9	14.5	15.1
8	17.5	11.8	14.7	18.8	17.0	17.8	17.7	13.7	15.7	16.2	13.4	14.8
9	14.3	10.6	12.8	18.0	16.1	16.8	17.7	13.6	15.6	16.2	13.4	14.9
10	15.1	11.2	12.9	16.7	16.1	16.4	18.3	14.0	16.1	16.1	12.9	14.6
11	17.8	11.5	14.4	17.0	16.2	16.6	18.6	14.6	16.7	16.1	13.6	15.0
12	18.9	12.9	16.0	17.2	16.5	16.9	18.1	14.6	16.5	16.7	13.9	15.2
13	19.9	13.7	16.9	17.5	16.9	17.1	18.5	14.5	16.4	16.9	13.9	15.5
14	20.6	14.6	17.7	17.5	17.0	17.2	18.8	14.6	16.6	16.5	13.6	15.2
15	21.1	15.8	18.5	20.4	17.3	18.6	18.9	14.8	16.8	16.9	14.2	15.6
16	21.4	15.6	18.6	19.3	17.3	18.4	18.3	14.6	16.4	16.2	14.5	15.4
17	20.1	15.9	18.0	20.7	16.1	18.3	18.0	14.2	16.0	15.4	14.0	14.6
18	18.1	15.8	16.8	19.3	17.0	18.1	18.0	14.5	16.2	15.1	12.9	14.1
19	17.5	14.3	15.9	21.1	16.7	18.6	17.7	13.6	15.6	15.3	12.6	14.0
20	17.2	14.6	16.0	20.7	16.9	18.7	17.5	14.5	16.0	15.6	13.1	14.3
21	17.7	15.6	16.6	20.6	16.4	18.4	17.2	14.2	15.6	14.8	12.6	13.8
22	17.7	15.9	16.8	19.1	16.2	17.8	16.4	13.6	15.1	14.3	11.7	13.2
23	18.1	15.6	16.7	20.1	15.9	17.9	15.9	14.0	15.0	14.6	11.8	13.4
24	18.6	16.5	17.5	20.7	16.4	18.5	17.2	13.4	15.1	15.0	12.6	13.9
25	18.6	16.7	17.8	20.4	17.5	19.0	17.7	13.9	15.7	15.0	12.9	14.1
26	18.5	16.5	17.4	20.1	16.2	18.1	17.2	14.3	15.7	14.6	12.5	13.7
27	18.5	16.2	17.2	19.4	15.9	17.6	17.3	14.2	15.6	14.5	12.9	13.7
28	18.5	17.0	17.8	19.3	15.1	17.2	17.0	14.0	15.6	14.3	12.2	13.3
29	18.6	16.9	17.7	19.8	15.8	17.7	17.7	14.3	16.0	13.9	12.3	13.2
30	18.6	16.5	17.7	19.8	15.8	17.8	17.2	14.5	15.9	13.6	12.2	12.8
31	---	---	---	18.9	16.1	17.6	17.8	14.8	16.1	---	---	---
MONTH	21.4	10.6	16.7	21.1	15.1	17.7	19.8	13.4	16.2	17.8	11.7	14.7

SNAKE RIVER MAIN STEM

13094000 SNAKE RIVER NEAR BUHL, ID

LOCATION.--Lat 42°39'58", long 114°42'41", in NW¼NW¼ sec.9, T.9 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 2 mi downstream from Niagara Springs, 3.8 mi upstream from outlet of Clear Lakes, 6 mi northeast of Buhl, and at mile 596.8.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,951.9 ft above NGVD of 1929 (stadia levels). Dec. 12, 1946 to July 13, 1965 at datum 1.00 ft higher. Prior to Jan. 17, 1947, nonrecording gage 40 ft upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir 116.8 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. No diversions except by small ranch ditches between this station and station at Milner, where at times practically entire flow is diverted during irrigation seasons. Diversions above station for irrigation of about 2,030,000 acres, of which about 542,000 acres are irrigated by withdrawals from ground water; about 230,000 acres are irrigated below station. In addition, about 26,000 acres are irrigated above station by diversions from Salmon Falls Creek. Considerable water leaks into the Snake River Plain aquifer upstream, some of which returns above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft³/s June 22, 1997, gage height, 14.65 ft; minimum, 1,370 ft³/s Apr. 14, 2002, gage height, 0.83 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,490 ft³/s Nov. 10-12; minimum, 1,370 ft³/s Apr. 14, gage height, 0.83 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2150	2240	2290	2260	2060	1960	1900	1770	1660	1550	2060	2240
2	2160	2220	2310	2230	2060	1940	1900	1800	1740	1540	2070	2280
3	2150	2220	2330	2250	2050	1940	1660	1710	1800	1550	2070	2290
4	2170	2240	2310	2250	2050	1930	1480	1670	1780	1560	2130	2270
5	2140	2260	2320	2220	2040	1930	1430	1730	1700	1580	2170	2200
6	2190	2310	2350	2210	2030	1970	1420	1780	1660	1590	2130	2270
7	2200	2390	2370	2210	1980	2090	1420	1710	1670	1600	2110	2380
8	2200	2400	2320	2210	2030	2050	1410	1820	1680	1610	2090	2410
9	2150	2370	2310	2250	2030	1990	1410	1860	1740	1620	2100	2410
10	2210	2490	2320	2230	2000	1960	1410	1780	1780	1610	2120	2360
11	2230	2490	2320	2200	2000	1950	1410	1760	1760	1600	2150	2350
12	2240	2490	2310	2200	2020	1940	1400	1720	1690	1600	2120	2330
13	2200	2480	2330	2200	2000	1980	1400	1680	1640	1640	2100	2300
14	2210	2340	2430	2190	2000	1970	1400	1630	1610	1660	2080	2280
15	2220	2350	2360	2180	1990	1970	1410	1680	1580	1720	2080	2300
16	2180	2350	2320	2130	1980	2030	1450	1690	1530	1770	2080	2330
17	2090	2340	2320	2120	1990	2070	1500	1630	1520	1910	2110	2340
18	2070	2340	2320	2110	2020	2060	1500	1630	1530	2010	2150	2360
19	2240	2320	2330	2070	2030	2030	1490	1690	1570	2010	2180	2380
20	2260	2320	2330	2070	2120	2030	1470	1690	1610	2010	2180	2390
21	2160	2330	2320	2090	2070	2020	1480	1710	1560	2030	2160	2390
22	2140	2360	2310	2150	2020	2020	1490	1810	1560	2050	2180	2400
23	2150	2310	2290	2090	2030	2070	1540	1810	1580	2030	2190	2420
24	2110	2290	2270	2090	2040	2080	1670	1720	1560	2020	2200	2420
25	2100	2250	2250	2080	2030	2090	1660	1690	1530	2020	2220	2400
26	2100	2230	2240	2100	1970	2060	1810	1670	1510	2020	2250	2410
27	2190	2220	2260	2130	1960	2030	1770	1680	1520	2040	2230	2380
28	2200	2240	2260	2120	1950	2030	1690	1640	1530	2060	2230	2420
29	2190	2360	2250	2110	---	1960	1750	1620	1540	2090	2240	2430
30	2200	2340	2260	2080	---	1920	1780	1600	1550	2080	2230	2450
31	2240	---	2260	2070	---	1910	---	1600	---	2070	2240	---
TOTAL	67440	69890	71570	66900	56550	61980	46510	52980	48690	56250	66650	70590
MEAN	2175	2330	2309	2158	2020	1999	1550	1709	1623	1815	2150	2353
MAX	2260	2490	2430	2260	2120	2090	1900	1860	1800	2090	2250	2450
MIN	2070	2220	2240	2070	1950	1910	1400	1600	1510	1540	2060	2200
AC-FT	133800	138600	142000	132700	112200	122900	92250	105100	96580	111600	132200	140000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

MEAN	4323	4800	5404	5929	6020	6207	7258	6709	6551	3017	2835	3139
MAX	12260	14760	13350	15950	19570	21110	20570	19590	26480	7917	5811	8770
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1983	1997	1997
MIN	2125	2133	2197	2138	1884	1545	1550	1633	1623	1786	1807	1876
(WY)	1978	1978	1962	2001	1993	1991	1990	1992	2002	2001	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1947 - 2002
ANNUAL TOTAL	744100	736000	
ANNUAL MEAN	2039	2016	5184
HIGHEST ANNUAL MEAN			11620
LOWEST ANNUAL MEAN			2016
HIGHEST DAILY MEAN	3170	May 16	2490
LOWEST DAILY MEAN	1520	Mar 27	1400
ANNUAL SEVEN-DAY MINIMUM	1590	Apr 3	1410
ANNUAL RUNOFF (AC-FT)	1476000	1460000	3756000
10 PERCENT EXCEEDS	2320	2340	11500
50 PERCENT EXCEEDS	2030	2080	3230
90 PERCENT EXCEEDS	1690	1570	2060

SNAKE RIVER MAIN STEM

13094000 SNAKE RIVER NEAR BUHL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965, March 1976, November 1990 to September 1991, August 1992 to November 2002 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1993, June to September 1994, July to November 1996, June to September 1997, February to October 1998, May to September 1999, May to September 2000, December 2001 to November 2002 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.2 °C July 19, 21-23, 26, 28, 1998; minimum, 4.0 °C Mar. 7, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 21.9 °C July 23; minimum, 4.0 °C Mar. 7.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
APR 26...	0845	1810	611	8.7	12.5	13.2	12	9.5	102	S19
MAY 23...	0930	1820	599	8.2	12.5	12.9	13	8.8	93	37
JUN 19...	1000	1570	648	8.2	15.0	16.8	5.2	8.1	93	27

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 26...	.019	.81	1.66	.051	.154	--	--
MAY 23...	.096	.48	1.84	.096	.158	8.0	39.3
JUN 19...	.104	.49	2.00	.125	.169	7.0	29.7

S Most probable value

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

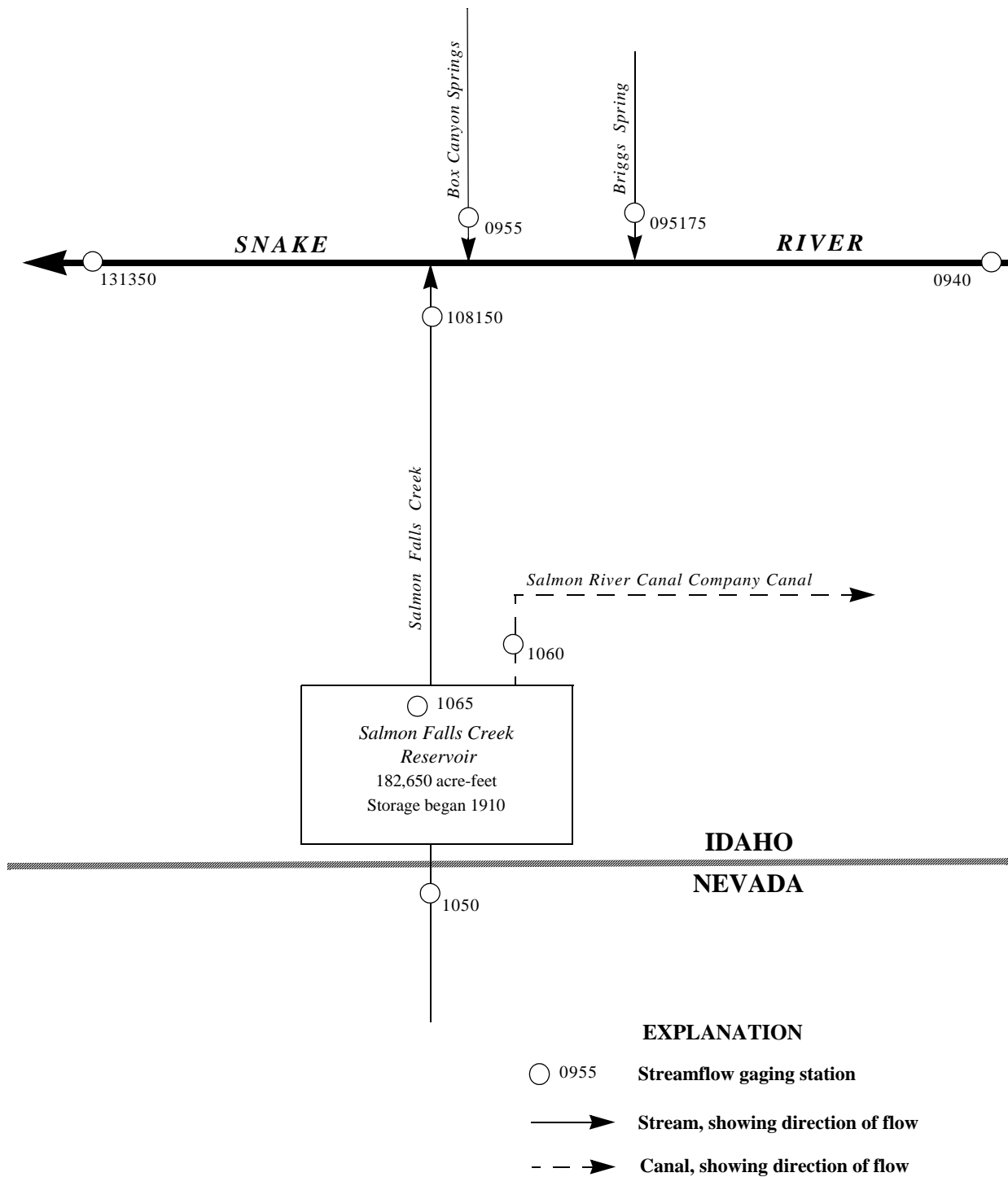
DAY	DECEMBER			JANUARY			FEBRUARY			MARCH		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.8	7.3	7.5	6.7	6.1	6.4	8.7	7.3	7.9
2	---	---	---	7.3	6.8	7.0	7.0	6.4	6.7	8.5	7.4	8.0
3	---	---	---	7.6	6.8	7.1	6.8	5.7	6.3	8.7	7.3	8.0
4	---	---	---	7.6	7.1	7.4	6.7	6.1	6.4	8.4	7.4	7.9
5	---	---	---	7.8	7.1	7.5	6.5	5.3	5.9	8.8	7.1	8.1
6	---	---	---	8.2	7.4	7.8	6.1	5.4	5.8	9.5	4.8	8.0
7	---	---	---	8.4	8.1	8.2	7.0	5.9	6.4	9.1	4.0	8.2
8	---	---	---	8.7	8.2	8.4	7.3	6.5	6.8	8.7	7.3	7.8
9	---	---	---	8.7	8.5	8.6	7.8	6.8	7.3	8.5	7.4	8.0
10	---	---	---	8.8	8.4	8.7	7.6	6.4	6.8	8.8	7.9	8.4
11	---	---	---	8.5	8.1	8.3	7.1	6.5	6.7	9.8	8.5	9.2
12	---	---	---	8.4	7.9	8.2	7.6	6.7	7.1	10.2	9.6	9.9
13	---	---	---	8.4	7.9	8.1	7.4	6.2	6.7	9.9	8.8	9.5
14	---	---	---	8.2	7.4	7.8	7.6	6.7	7.1	9.3	8.2	8.8
15	---	---	---	7.9	7.1	7.5	7.4	6.4	6.8	9.8	8.2	9.0
16	---	---	---	7.6	7.0	7.3	7.1	6.1	6.7	9.5	8.5	8.9
17	---	---	---	7.6	7.1	7.3	8.2	6.8	7.4	9.6	8.2	8.9
18	---	---	---	7.4	6.8	7.1	8.4	6.2	7.7	9.5	8.2	8.7
19	8.1	7.6	7.9	7.3	7.0	7.1	8.4	---	7.3	10.1	8.8	9.4
20	8.1	7.8	7.9	7.4	6.8	7.2	8.8	5.9	7.4	11.2	9.1	10.0
21	8.1	7.8	7.9	8.2	7.4	7.8	8.5	6.1	7.9	11.2	9.9	10.6
22	7.8	7.3	7.6	7.9	7.1	7.5	9.0	8.1	8.5	11.3	10.1	10.8
23	7.3	6.7	7.0	7.8	6.8	7.2	9.1	8.4	8.8	11.2	10.2	10.5
24	7.0	6.5	6.7	8.1	7.3	7.7	9.5	8.7	9.1	11.2	10.1	10.5
25	6.8	6.4	6.6	7.9	7.6	7.8	8.7	7.4	8.1	10.5	9.6	10.0
26	6.4	5.7	5.9	8.2	7.9	8.0	8.2	6.8	7.3	11.8	9.8	10.8
27	6.4	6.1	6.2	8.4	7.8	8.1	8.2	6.8	7.4	11.5	10.2	11.0
28	7.0	6.2	6.5	8.2	7.4	7.9	8.1	7.3	7.7	11.6	10.2	11.0
29	6.8	6.4	6.6	7.6	6.8	7.3	---	---	---	11.6	10.4	11.1
30	7.1	6.8	6.9	7.3	6.1	6.5	---	---	---	11.9	10.5	11.3
31	7.3	6.8	7.1	6.7	6.2	6.5	---	---	---	12.9	10.9	11.9
MONTH	---	---	---	8.8	6.1	7.6	9.5	5.3	7.2	12.9	4.0	9.4

SNAKE RIVER MAIN STEM  
13094000 SNAKE RIVER NEAR BUHL, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
		APRIL				MAY				JUNE				JULY		
1	12.9	11.3	12.2	15.0	13.9	14.4	19.7	18.1	18.6	20.3	18.8	19.8				
2	12.9	11.2	12.1	15.5	13.6	14.5	18.2	17.1	17.7	20.5	18.7	19.6				
3	13.3	11.5	12.4	15.2	13.6	14.5	18.5	16.6	17.5	20.9	19.3	20.2				
4	14.1	11.6	12.9	15.4	13.3	14.4	18.7	16.8	17.7	20.8	18.8	19.9				
5	14.3	12.7	13.6	15.4	13.9	14.7	19.0	17.3	18.1	20.5	18.8	19.7				
6	14.3	13.0	13.6	15.7	13.6	14.7	19.0	17.3	18.1	20.5	19.3	20.0				
7	14.1	12.2	13.2	15.4	12.2	13.7	18.4	16.5	17.3	20.9	19.3	20.1				
8	14.9	12.9	13.7	13.8	11.5	12.5	17.6	14.9	15.8	20.9	19.3	20.1				
9	14.3	13.3	13.9	13.3	12.2	12.8	15.2	13.6	14.4	20.8	18.7	19.7				
10	14.6	12.9	13.6	13.5	12.2	12.8	15.0	13.9	14.5	20.9	19.2	20.1				
11	15.0	13.2	13.9	14.7	12.4	13.5	16.5	14.3	15.1	21.1	19.5	20.3				
12	15.5	13.9	14.6	15.5	13.3	14.4	17.6	15.0	16.2	21.4	19.8	20.6				
13	15.0	13.9	14.6	16.0	14.3	15.2	18.2	16.0	17.1	21.6	20.1	20.9				
14	15.5	14.4	15.0	15.8	14.6	15.3	18.7	16.8	17.7	21.4	20.5	21.0				
15	14.6	11.3	13.1	15.5	13.9	14.7	19.4	17.6	18.5	21.4	20.3	21.0				
16	12.4	10.7	11.6	16.2	14.6	15.3	19.5	18.1	18.8	21.3	20.1	20.7				
17	12.9	11.8	12.2	16.5	14.9	15.7	19.2	17.9	18.6	21.6	19.5	20.5				
18	12.2	11.0	11.5	16.8	15.7	16.2	18.9	17.7	18.3	21.8	20.1	20.6				
19	13.3	11.3	12.2	17.4	16.0	16.7	18.7	16.8	17.7	21.6	19.6	20.5				
20	13.5	11.6	12.5	17.3	15.7	16.2	18.5	17.2	17.8	21.4	19.6	20.6				
21	13.6	11.5	12.4	15.7	13.3	14.5	18.7	17.4	18.0	21.4	19.5	20.5				
22	14.7	12.7	13.7	14.6	12.6	13.4	18.5	17.4	18.0	21.1	19.5	20.2				
23	14.3	12.2	13.5	13.9	12.9	13.5	19.5	17.4	18.4	21.9	19.0	20.2				
24	13.9	11.6	12.7	15.4	12.9	13.9	19.8	18.4	19.2	21.4	19.0	20.3				
25	14.6	12.2	13.5	16.5	14.3	15.3	20.3	18.7	19.5	21.6	19.5	20.5				
26	14.4	13.0	13.8	16.6	15.2	15.9	20.1	19.0	19.6	21.1	19.2	20.2				
27	14.3	12.7	13.5	17.6	15.7	16.5	20.5	18.7	19.5	20.6	18.8	19.7				
28	15.0	12.9	13.8	17.9	16.6	17.1	20.5	19.2	19.8	20.8	18.4	19.4				
29	15.2	13.6	14.4	18.7	16.9	17.7	20.5	19.0	19.8	20.6	18.2	19.5				
30	15.0	13.9	14.5	19.5	17.4	18.4	20.6	19.2	19.9	20.8	18.4	19.5				
31	---	---	---	19.7	17.7	18.8	---	---	---	20.6	18.7	19.6				
MONTH	15.5	10.7	13.3	19.7	11.5	15.1	20.6	13.6	17.9	21.9	18.2	20.2				

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		AUGUST			SEPTEMBER			OCTOBER			NOVEMBER		
1	20.6	17.9	19.1	18.5	17.2	17.9	14.5	13.6	13.9	10.5	9.4	10.0	
2	20.5	18.7	19.5	18.8	17.1	17.9	13.9	13.3	13.6	10.4	9.1	9.8	
3	20.1	18.4	19.3	18.7	17.4	18.1	13.6	12.8	13.1	10.5	9.1	9.8	
4	20.1	18.4	19.2	18.7	17.6	18.2	13.9	13.0	13.4	10.4	9.0	9.5	
5	19.8	17.4	18.6	18.4	17.6	17.9	14.2	13.5	13.7	10.2	9.6	9.9	
6	20.0	17.7	18.8	18.0	17.2	17.6	14.5	13.3	13.9	10.4	9.4	9.9	
7	19.0	17.2	18.2	17.6	16.8	17.1	14.5	13.5	14.0	10.5	9.9	10.2	
8	18.8	16.6	17.8	17.6	16.3	16.9	14.5	13.5	14.0	10.7	10.4	10.5	
9	19.2	16.6	17.8	17.6	16.0	16.8	14.4	13.3	13.9	10.8	10.4	10.6	
10	19.6	16.8	18.1	17.4	16.0	16.7	14.4	13.3	13.7	10.8	10.4	10.6	
11	19.6	17.4	18.5	17.4	16.1	16.8	13.9	12.2	12.7	11.1	10.4	10.8	
12	19.6	17.4	18.5	17.7	16.3	17.0	12.7	11.9	12.3	11.0	10.4	10.7	
13	19.2	17.4	18.3	17.9	16.3	17.1	12.7	11.5	12.0	11.0	10.7	10.9	
14	19.3	17.6	18.4	17.7	16.3	17.0	12.5	11.5	12.1	10.8	10.4	10.6	
15	19.5	17.7	18.5	17.7	16.4	17.1	12.7	11.5	12.1	10.7	10.1	10.4	
16	19.3	17.7	18.5	17.6	16.3	16.9	12.8	11.6	12.2	10.7	10.1	10.4	
17	19.3	17.4	18.3	17.1	16.3	16.5	12.8	11.8	12.3	10.5	10.1	10.3	
18	19.3	17.4	18.3	16.4	15.2	15.8	12.8	11.8	12.3	10.4	9.6	10.0	
19	19.3	17.1	18.1	16.3	14.9	15.6	12.7	11.8	12.3	10.5	9.9	10.1	
20	18.7	17.1	18.0	16.3	15.2	15.7	12.8	11.8	12.3	10.5	9.6	10.1	
21	18.2	16.6	17.5	16.1	14.9	15.5	13.0	12.1	12.5	10.5	9.9	10.3	
22	17.9	16.6	17.3	15.8	14.4	15.2	13.0	12.7	12.8	10.5	9.9	10.3	
23	18.0	16.8	17.4	15.8	14.4	15.1	12.8	12.4	12.6	10.7	10.4	10.5	
24	18.2	16.6	17.4	16.0	14.7	15.3	12.8	11.9	12.4	10.7	10.1	10.3	
25	18.4	16.8	17.5	16.0	14.9	15.4	12.7	11.9	12.3	---	---	---	
26	18.2	17.1	17.6	16.0	14.5	15.2	12.7	11.6	12.1	---	---	---	
27	18.2	16.8	17.5	15.8	14.7	15.2	12.4	11.6	11.9	---	---	---	
28	18.0	16.9	17.5	15.5	14.4	14.9	11.9	11.5	11.7	---	---	---	
29	18.4	16.9	17.7	15.5	14.4	14.8	11.8	11.3	11.6	---	---	---	
30	18.4	17.1	17.8	14.9	13.9	14.3	11.6	10.2	10.9	---	---	---	
31	18.7	17.1	17.8	---	---	---	10.8	9.9	10.4	---	---	---	
MONTH	20.6	16.6	18.2	18.8	13.9	16.4	14.5	9.9	12.6	---	---	---	



**Figure 13.** Schematic diagram showing gaging stations in Snake River Basin between Snake River near Buhl and Salmon Falls Creek.

BRIGGS SPRING BASIN

13095175 BRIGGS SPRING AT HEAD, NEAR BUHL, ID

LOCATION.--Lat 42°40'26", long 114°48'30", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.3, T.9 S., R.14 E., Gooding County, on right bank at road crossing, <sup>1</sup>/<sub>8</sub> mi downstream from head of spring, and 6 mi northwest of Buhl.

PERIOD OF RECORD.--April 1989 to current year. Miscellaneous measurements made in previous years may not be equivalent. (See sta 13095200)

GAGE.--Water-stage recorder. Elevation of gage is 3,000 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Small diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 118 ft<sup>3</sup>/s Oct. 8-10, 14, 15, 17-28, 31, Nov. 1, 3-12, 1989; minimum daily, 95 ft<sup>3</sup>/s June 24-30, July 11-15, 1996, July 3-19, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 111 ft<sup>3</sup>/s Oct. 16, 17, 19-23; minimum daily, 95 ft<sup>3</sup>/s July 3-19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	110	109	107	104	102	101	97	98	96	98	99
2	107	110	109	107	104	102	101	97	97	96	98	99
3	107	110	108	107	104	102	101	97	97	95	97	99
4	107	110	108	105	104	102	100	97	97	95	97	99
5	107	110	108	105	104	102	100	97	97	95	97	99
6	107	110	108	105	104	102	100	97	97	95	97	99
7	108	110	108	105	104	102	100	97	97	95	97	99
8	110	110	108	105	104	102	100	97	97	95	97	100
9	110	109	108	105	104	102	100	97	97	95	97	101
10	110	110	108	105	104	102	100	97	97	95	97	101
11	110	110	108	105	104	102	100	97	96	95	97	101
12	110	110	107	105	104	102	100	97	96	95	97	101
13	110	110	107	105	104	102	100	97	97	95	97	101
14	110	110	107	105	104	102	100	97	97	95	97	101
15	110	109	107	105	103	102	100	97	97	95	97	101
16	111	109	107	105	103	102	101	97	97	95	98	101
17	111	109	107	105	103	102	101	97	97	95	98	101
18	110	109	107	105	103	102	101	98	97	95	98	101
19	111	109	107	105	103	102	101	98	96	95	98	101
20	111	109	107	105	103	102	100	99	96	96	98	101
21	111	109	107	105	103	102	99	99	96	96	98	101
22	111	110	107	105	103	102	99	99	96	96	98	102
23	111	110	107	105	103	102	99	99	96	96	98	102
24	110	110	107	105	103	102	99	99	96	96	98	102
25	110	110	107	104	103	102	99	99	96	96	98	102
26	110	109	107	104	103	102	99	98	96	96	98	102
27	110	109	107	105	103	102	98	98	96	96	98	102
28	110	109	107	105	102	102	98	98	96	96	98	102
29	110	109	107	105	---	102	98	98	96	97	98	102
30	110	109	107	105	---	102	98	98	96	97	99	102
31	110	---	107	104	---	101	---	98	---	97	99	---
TOTAL	3397	3287	3330	3258	2897	3161	2993	3027	2897	2962	3027	3024
MEAN	109.6	109.6	107.4	105.1	103.5	102.0	99.77	97.65	96.57	95.55	97.65	100.8
MAX	111	110	109	107	104	102	101	99	98	97	99	102
MIN	107	109	107	104	102	101	98	97	96	95	97	99
AC-FT	6740	6520	6610	6460	5750	6270	5940	6000	5750	5880	6000	6000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	111.6	111.6	109.5	107.2	105.5	104.0	101.4	99.96	99.73	99.78	102.6	107.4		
MAX	118	117	114	111	109	107	105	102	104	104	106	113		
(WY)	1990	1990	1990	1990	1998	1998	1998	1990	1990	1997	1990	1989		
MIN	107	106	104	103	102	102	99.8	96.8	96.6	95.5	97.6	101		
(WY)	1996	1996	1996	1996	1993	1993	2002	1993	2002	2002	2002	2002		

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1989 - 2002
ANNUAL TOTAL	38071	37260	
ANNUAL MEAN	104.3	102.1	104.9
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			102
HIGHEST DAILY MEAN	111	111	118
LOWEST DAILY MEAN	97	95	95
ANNUAL SEVEN-DAY MINIMUM	97	95	95
ANNUAL RUNOFF (AC-FT)	75510	73910	76010
10 PERCENT EXCEEDS	110	110	113
50 PERCENT EXCEEDS	105	102	104
90 PERCENT EXCEEDS	98	96	99



BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979-81, 1984 to 2002 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July to September 1994, May to September 1999, June to November 2002 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 15.4 °C June 14-15, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 15.2 °C June 30.

REMARKS.--Intermittent water chemistry June 1949 to March 1976.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
APR 24...	0845	325	378	8.3	4.0	14.0	.5	9.2	99	<1
MAY 29...	0900	316	387	8.1	21.0	14.3	4.9	9.0	99	S2
JUN 20...	0915	309	392	8.3	15.0	14.2	.5	9.2	100	S2

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
APR 24...	E.008	.11	.916	.012	.015
MAY 29...	<.015	<.10	.855	.014	.015
JUN 20...	<.015	E.06	.864	.013	.015

< Less than  
 E Estimated value  
 S Most probable value





## BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

COLLECTION METHODS.--Composite of 5, 0.25 m<sup>2</sup> samples. Richest targeted habitat--riffles, whole sample.  
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.38 m.

AVERAGE VELOCITY.-- 0.72 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--0.

PERCENT FINES AVERAGE.--0.

BIOLOGICAL DATA, APRIL 2002  
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM TAXON	DATE	NUMBER OF INDIV- IDUALS
GENUS SPECIES	April 3	
<b>Non-insects</b>		
Branchiobdellida		4
<i>Hyalella sp.</i>		369
<i>Pacifastacus connectens</i>		14
Hygrobatidae		4
<i>Taylorconcha serpenticola</i>		153
<i>Fluminicola sp.</i>		231
<b>Ephemeroptera</b>		
<i>Baetis tricaudatus</i>		64
<i>Ephemerella inermis/infrequens</i>		7
<b>Odonata</b>		
<i>Argia sp.</i>		4
<b>Plecoptera</b>		
<i>Isoperla sp.</i>		39
<i>Malenka sp.</i>		7
<b>Trichoptera</b>		
<i>Glossosoma sp.</i>		7
<i>Hydropsyche sp.</i>		46
<i>Leucotrichia sp.</i>		4
<i>Micrasema sp.</i>		870
<i>Proptila sp.</i>		4
<i>Rhyacophila brunnea gr.</i>		11
<i>Rhyacophila coloradensis gr.</i>		4
<b>Diptera</b>		
<i>Antocha sp.</i>		7
<b>Chironomidae</b>		
<i>Cricotopus sp.</i>		14
<i>Eukiefferiella brehmi gr.</i>		18
<i>Eukiefferiella devonica gr.</i>		4
<i>Eukiefferiella sp.</i>		7
<i>Orthocladus sp.</i>		11
<i>Rheocricotopus sp.</i>		7
<i>Rheotanytarsus sp.</i>		131
<i>Thienemanniella sp.</i>		4

SUMMARY STATISTICS  
TOTAL NUMBER OF TAXA 27  
TOTAL INDIVIDUALS 2,042

## BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

COLLECTION METHODS.--Qualitative multiple habitat, relative abundance, whole sample.

MESH SIZE.--210 um.

GEAR TYPE.--D-frame net and visual collections.

AVERAGE WIDTH.--32 m.

BIOLOGICAL DATA, APRIL 2002  
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM TAXON	DATE	NUMBER OF INDIV- IDUALS
<i>GENUS SPECIES</i>	April 3	
<b>Non-insects</b>		
Enchytraeidae		3
Nematoda		3
<i>Hyalella sp.</i>		114
<i>Pacifastacus connectens</i>		6
Hygrobatidae		6
Sperchonidae		9
<i>Taylorconcha serpenticola</i>		114
<i>Fluminicola sp.</i>		235
<i>Potamopyrgus antipodarum</i>		20
<b>Ephemeroptera</b>		
<i>Baetis tricaudatus</i>		54
<i>Ephemerella inermis/infrequens</i>		23
<b>Odonata</b>		
<i>Argia sp.</i>		3
<b>Plecoptera</b>		
<i>Isoperla sp.</i>		14
<i>Malenka sp.</i>		14
<b>Trichoptera</b>		
<i>Glossosoma sp.</i>		29
<i>Hydropsyche sp.</i>		97
<i>Micrasema sp.</i>		432
<i>Ochrotrichia sp.</i>		6
<i>Rhyacophila brunnea gr.</i>		14
<b>Diptera</b>		
<i>Antocha sp.</i>		6
<i>Caloparyphus sp.</i>		3
<i>Hemerodromia sp.</i>		3
Sciomyzidae		3
<b>Chironomidae</b>		
<i>Corynoneura sp.</i>		3
<i>Cricotopus sp.</i>		11
<i>Eukiefferiella brehmi gr.</i>		17
<i>Eukiefferiella claripennis gr.</i>		34
<i>Eukiefferiella devonica gr.</i>		9
<i>Orthocladius sp.</i>		6
<i>Parametricnemus sp.</i>		31
<i>Pentaneura sp.</i>		3
<i>Rheocricotopus sp.</i>		31
<i>Rheotanytarsus sp.</i>		189
<i>Smittia sp.</i>		3
<i>Thienemannimyia gr. sp.</i>		6

SUMMARY STATISTICS  
TOTAL NUMBER OF TAXA 36  
TOTAL INDIVIDUALS 1,555



## SALMON FALLS CREEK BASIN

13106000 SALMON RIVER CANAL CO. CANAL NEAR ROGERSON, ID

LOCATION.--Lat 42°13'10", long 114°44'20", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.7, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, U.S. Bureau of Land Management lands, on left bank 0.5 mi downstream from Salmon River Canal Co. reservoir, and 7 mi west of Rogerson.

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,940 ft above NGVD of 1929, by barometer. Oct. 1, 1953 to Sept. 30, 1954, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from Salmon River Canal Co. reservoir (see sta 13106500) for irrigation of land in the Salmon River Canal Co. project.

AVERAGE DISCHARGE.--65 years, 105 ft<sup>3</sup>/s, 76,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 660 ft<sup>3</sup>/s July 21-24, 1944; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	0.00	269	314	253	---
2	---	---	---	---	---	---	---	0.00	259	322	251	---
3	---	---	---	---	---	---	---	0.00	247	321	242	---
4	---	---	---	---	---	---	---	0.00	231	318	235	---
5	---	---	---	---	---	---	---	0.00	236	318	229	---
6	---	---	---	---	---	---	---	183	237	310	230	---
7	---	---	---	---	---	---	---	186	230	305	229	---
8	---	---	---	---	---	---	---	170	217	309	226	---
9	---	---	---	---	---	---	---	172	214	310	226	---
10	---	---	---	---	---	---	---	174	214	297	236	---
11	---	---	---	---	---	---	---	189	218	296	251	---
12	---	---	---	---	---	---	---	196	230	295	244	---
13	---	---	---	---	---	---	---	214	241	286	242	---
14	---	---	---	---	---	---	---	217	255	262	241	---
15	---	---	---	---	---	---	---	227	253	266	241	---
16	---	---	---	---	---	---	---	238	247	272	240	---
17	---	---	---	---	---	---	---	263	251	268	227	---
18	---	---	---	---	---	---	---	269	263	265	199	---
19	---	---	---	---	---	---	---	284	261	262	172	---
20	---	---	---	---	---	---	---	289	255	262	148	---
21	---	---	---	---	---	---	---	288	251	264	128	---
22	---	---	---	---	---	---	---	278	253	268	0.00	---
23	---	---	---	---	---	---	---	255	259	267	0.00	---
24	---	---	---	---	---	---	---	252	275	264	0.00	---
25	---	---	---	---	---	---	---	246	276	260	0.00	---
26	---	---	---	---	---	---	---	249	279	258	0.00	---
27	---	---	---	---	---	---	---	258	279	253	0.00	---
28	---	---	---	---	---	---	---	258	279	249	0.00	---
29	---	---	---	---	---	---	---	257	287	253	0.00	---
30	---	---	---	---	---	---	---	261	305	258	0.00	---
31	---	---	---	---	---	---	---	271	---	256	0.00	---
TOTAL	---	---	---	---	---	---	---	6144.00	7571	8708	4690.00	---
MEAN	---	---	---	---	---	---	---	198.2	252.4	280.9	151.3	---
MAX	---	---	---	---	---	---	---	289	305	322	253	---
MIN	---	---	---	---	---	---	---	0.00	214	249	0.00	---
AC-FT	---	---	---	---	---	---	---	12190	15020	17270	9300	---

SALMON FALLS CREEK BASIN

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE<sup>1</sup>/<sub>4</sub> sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, U.S. Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi west of Rogerson, and at mile 46.0.

DRAINAGE AREA.--1,610 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft above NGVD of 1929.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft, maximum operating level. Dead storage, 48,000 acre-ft. Reservoir spilled May 11 to June 29, 1984, and Apr. 22-30, 1985, the first times since construction in 1911. Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table provided by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 180,600 acre-ft June 20, July 2, 3, 1984, gage height, 79.40 ft; minimum observed, 125 acre-ft Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 44,200 acre-ft May 13-18, gage height, 27.70 ft; minimum observed, 4,520 acre-ft Oct. 1, gage height, 3.50 ft.

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

3.0	3,850	20.0	30,000
10.0	13,800	25.0	39,100
15.0	21,500	30.0	48,800

RESERVOIR STORAGE, in (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4520	5740	7580	9900	12400	14700	18900	38100	42400	33500	15200	4860
2	4660	5810	7580	9970	12400	14800	19300	38700	42300	32900	14600	4860
3	4730	5880	7720	10100	12500	14900	19700	39700	42300	32300	14200	4800
4	4730	5880	7860	10300	12500	15000	20300	40400	42500	31500	13700	4800
5	4730	5940	7860	10300	12600	15200	20900	41300	42600	30800	13100	4730
6	4730	6010	8010	10500	12600	15200	21400	41900	42500	30200	12600	4730
7	4730	6010	8160	10600	12600	15300	22400	42200	42400	29600	12200	4730
8	4730	6080	8300	10700	12800	15400	22900	42600	42200	28900	11700	4730
9	4730	6140	8300	10800	12900	15600	23800	43000	42200	28400	11200	4730
10	4800	6210	8300	10900	13000	15700	24600	43300	42000	27700	10700	4730
11	4860	6210	8370	11000	13100	15800	25300	43600	41800	27100	10200	4730
12	4930	6280	8440	11100	13100	15800	25900	43900	41700	26500	9680	4730
13	4930	6350	8520	11100	13100	16000	26500	44200	41500	25900	9100	4730
14	4930	6420	8660	11100	13200	16000	27200	44200	41200	25200	8590	4730
15	4930	6480	8810	11300	13300	16100	27900	44200	41000	24800	8010	4730
16	5060	6550	8810	11300	13400	16200	28600	44200	40700	24100	7500	4730
17	5060	6620	8880	11300	13400	16400	29600	44200	40200	23600	6920	4730
18	5060	6620	8880	11500	13600	16500	30300	44200	39800	23000	6280	4730
19	5060	6700	9020	11600	13700	16600	31000	44100	39400	22400	5880	4800
20	5130	6770	9170	11600	13800	16700	31700	43900	39000	21800	5600	4800
21	5130	6840	9240	11700	14000	16900	32400	43900	38500	21300	5200	4800
22	5200	6910	9240	11800	14000	16900	32900	43800	38100	20800	5130	4800
23	5200	7070	9320	11900	14200	17100	33500	43800	37700	20200	5060	4860
24	5340	7140	9390	11900	14300	17200	34000	43800	37200	19600	5060	4860
25	5400	7210	9390	12000	14400	17300	34500	43800	36800	18800	5000	4930
26	5400	7280	9460	12100	14500	17600	35000	43700	36300	18400	5000	4930
27	5470	7360	9530	12100	14600	17800	35600	43700	35800	17800	5000	4930
28	5470	7430	9600	12300	14600	17800	36200	43400	35200	17300	4930	4930
29	5540	7580	9680	12400	---	18100	36800	43200	34800	16900	4930	4930
30	5540	7580	9750	12400	---	18300	37400	42900	34200	16400	4860	5000
31	5670	---	9820	12400	---	18600	---	42700	---	15800	4860	---
MAX	5670	7580	9820	12400	14600	18600	37400	44200	42600	33500	15200	5000
MIN	4520	5740	7580	9900	12400	14700	18900	38100	34200	15800	4860	4730
†	4.35	5.70	7.25	9.00	10.55	13.20	24.10	26.95	22.35	11.30	3.75	3.85
‡	1150	1910	2240	2580	2200	4000	18800	5300	-8500	-18400	-10940	140
CAL YR 2001	MAX 36500	MIN 4520	† -5580									
WTR YR 2002	MAX 44200	MIN 4520	† 480									

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

## SALMON FALLS CREEK BASIN

## 13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID

LOCATION.--Lat 42°41'47", long 114°51'15", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.30, T.8 S., R.14 E., Twin Falls County, Hydrologic Unit 17040213, on left bank 25 ft upstream from U.S. Highway 30, at mile 1.9, and 8.5 mi south of Hagerman.

DRAINAGE AREA.--2,120 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,891.06 ft above NGVD of 1929.

REMARKS.--Records fair except for discharges Mar. 16 to Apr. 30 and estimated daily discharges, which are poor. Flow completely regulated by Salmon River Canal Co. reservoir 44 mi upstream (see sta 13106500). Flow below the dam is derived from leakage past the dam and return flow from adjacent land. Several diversions, by pumping from the left bank below the dam, are used for irrigation. Flow past gage is partially regulated during irrigation season by small diversion dam 0.9 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft<sup>3</sup>/s May 16, 1984, gage height, 18.14 ft, on basis of contracted opening measurement of peak flow, result of roadfill collapse approximately 13 mi upstream, (Salmon River Canal Co. reservoir spilled into Salmon Falls Creek May 11 to June 29, 1984 and Apr. 22-30, 1985, the only times since construction of the dam in 1910). Maximum discharge excluding 1984, 3,390 ft<sup>3</sup>/s Jan. 12, 1979, gage height, 9.60 ft; minimum, 5.8 ft<sup>3</sup>/s July 9, 1977, gage height, 2.51 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 248 ft<sup>3</sup>/s Oct. 15; minimum daily, 14 ft<sup>3</sup>/s June 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	153	150	142	115	120	102	e120	44	29	47	74
2	193	153	152	142	126	119	102	123	77	21	43	69
3	189	152	147	145	104	119	102	85	107	27	49	66
4	188	157	151	141	114	120	104	98	95	22	60	57
5	198	157	150	140	121	118	104	97	74	24	58	67
6	209	157	153	140	120	119	105	96	77	32	50	70
7	208	154	153	141	120	143	105	110	83	26	46	95
8	206	152	148	141	124	112	105	148	67	39	45	100
9	206	154	149	161	121	108	105	145	78	31	55	110
10	217	155	147	154	120	108	106	129	99	38	56	106
11	215	155	147	138	120	110	106	121	97	48	56	96
12	228	155	146	138	118	113	106	112	75	41	52	85
13	232	155	146	136	119	116	105	107	52	34	44	92
14	237	152	155	136	118	113	105	81	45	37	44	92
15	248	153	148	135	117	114	104	83	39	39	44	95
16	246	152	143	133	117	113	104	68	32	52	42	91
17	214	152	144	134	117	108	104	60	27	70	42	103
18	167	150	152	134	123	105	104	61	26	50	46	127
19	162	149	155	134	120	102	106	59	35	57	50	157
20	164	152	141	133	155	100	107	66	40	45	52	147
21	164	154	139	134	235	99	109	98	43	56	58	157
22	163	160	137	137	168	97	111	131	35	60	61	156
23	167	153	134	135	168	96	112	112	43	50	66	161
24	168	155	131	133	194	96	113	83	41	52	71	149
25	166	154	128	133	130	96	116	70	28	54	72	140
26	166	150	115	136	121	97	117	77	18	46	65	145
27	166	148	132	135	120	97	119	80	14	39	57	139
28	170	150	131	134	119	97	120	73	20	44	58	145
29	168	158	132	116	---	97	112	72	28	54	61	163
30	165	152	135	89	---	98	e110	83	30	57	61	168
31	156	---	136	91	---	100	---	50	---	46	72	---
TOTAL	5948	4603	4427	4171	3664	3350	3230	2898	1569	1320	1683	3422
MEAN	191.9	153.4	142.8	134.5	130.9	108.1	107.7	93.48	52.30	42.58	54.29	114.1
MAX	248	160	155	161	235	143	120	148	107	70	72	168
MIN	156	148	115	89	104	96	102	50	14	21	42	57
AC-FT	11800	9130	8780	8270	7270	6640	6410	5750	3110	2620	3340	6790

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2002, BY WATER YEAR (WY)

	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			
MEAN	239.7	195.7	170.5	164.3	155.4	149.0	168.7	176.6	134.8	70.86	105.2	194.0																								
MAX	314	244	202	233	203	243	334	1272	834	130	178	271																								
(WY)	1973	1973	1974	1972	1972	1972	1985	1984	1984	1997	1997	1986																								
MIN	178	153	140	117	118	108	89.7	50.6	36.5	28.4	52.2	114																								
(WY)	1993	2002	1984	1993	1993	2002	1977	1992	1992	1977	1988	2002																								

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1970 - 2002	
ANNUAL TOTAL	52231		40285			
ANNUAL MEAN	143.1		110.4		160.4	
HIGHEST ANNUAL MEAN					314	
LOWEST ANNUAL MEAN					110	
HIGHEST DAILY MEAN	248	Oct 15	248	Oct 15	3440	May 16 1984
LOWEST DAILY MEAN	88	Jul 5	14	Jun 27	13	Jul 10 1977
ANNUAL SEVEN-DAY MINIMUM	100	Jun 18	23	Jun 26	16	Jul 14 1977
ANNUAL RUNOFF (AC-FT)	103600		79910		116200	
10 PERCENT EXCEEDS	191		161		237	
50 PERCENT EXCEEDS	141		113		156	
90 PERCENT EXCEEDS	108		44		72	

e Estimated

SALMON FALLS CREEK BASIN

13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-1981, 1990, 1992, 1994, 1996, April to September 1998, April to September 2000, December 2001 to November 2002 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April to September 1998, May to September 2000, December 2001 to November 2002 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.9 °C June 27, 2002; minimum, 4.0 °C Dec. 26, 2001, Jan. 30, 2002.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.9 °C June 27; minimum, 4.0 °C Dec. 26, Jan. 30.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
APR 29...	0930	120	659	8.6	12.0	11.7	46	9.1	93	75
MAY 22...	0930	134	665	8.6	11.0	10.8	30	9.4	97	235
JUN 17...	1015	30	790	8.3	26.0	18.6	6.8	8.8	105	181

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDEDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDEDED (T/DAY) (80155)
APR 29...	.068	1.1	1.66	.065	.25	103	33.4
MAY 22...	.045	.68	1.87	.050	.173	75	27.1
JUN 17...	.025	.37	2.37	.025	.052	9.0	.73

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

DAY	DECEMBER			JANUARY			FEBRUARY			MARCH		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	---	---	---	---	---	---	---	---	---	---	---	---
1	---	---	---	8.4	7.1	7.8	6.5	4.2	5.0	8.2	5.3	6.6
2	---	---	---	7.3	6.7	7.0	6.8	5.4	6.0	8.2	5.1	6.7
3	---	---	---	7.9	6.4	7.1	7.3	4.7	5.5	8.5	5.1	6.7
4	---	---	---	7.8	6.4	6.9	6.5	4.8	5.7	8.5	5.6	7.0
5	---	---	---	7.8	6.4	7.0	5.9	4.2	5.1	9.4	6.2	7.7
6	---	---	---	8.7	7.1	7.8	5.9	4.2	5.1	10.1	8.2	9.1
7	---	---	---	9.6	8.1	8.5	6.8	5.1	6.0	10.2	6.8	8.9
8	---	---	---	9.1	8.2	8.7	7.1	5.7	6.5	8.5	5.3	6.8
9	---	---	---	9.0	8.4	8.8	7.8	5.4	6.4	8.4	5.6	7.0
10	---	---	---	9.0	7.8	8.5	6.8	5.1	6.0	9.0	6.8	7.7
11	---	---	---	8.1	7.1	7.7	7.6	5.6	6.4	10.9	7.6	9.0
12	---	---	---	8.4	7.4	7.9	7.3	5.3	6.2	11.3	9.3	10.3
13	---	---	---	8.2	7.3	7.7	6.7	4.8	5.7	11.0	8.4	9.7
14	---	---	---	7.6	6.5	7.1	7.4	5.1	6.2	10.2	6.8	8.5
15	---	---	---	6.7	5.7	6.4	6.7	4.7	5.7	9.6	6.8	8.3
16	---	---	---	6.2	5.0	5.6	7.0	5.0	6.0	9.3	7.4	8.3
17	---	---	---	7.1	5.7	6.2	8.4	5.9	7.1	9.8	6.4	8.0
18	---	---	---	6.2	5.4	5.9	9.6	7.0	8.1	9.9	7.0	8.4
19	8.5	7.1	7.9	6.5	5.3	5.9	9.6	7.0	8.1	11.0	7.8	9.4
20	8.4	7.4	7.9	6.8	5.1	5.9	10.1	7.9	8.8	13.0	8.2	10.5
21	8.1	7.1	7.6	8.4	6.5	7.4	7.9	6.4	7.3	13.3	9.4	11.5
22	7.1	6.2	6.6	7.0	5.7	6.3	7.8	5.3	6.5	13.0	10.2	11.8
23	6.8	5.7	6.3	6.5	5.4	6.0	9.1	6.2	7.3	12.4	10.2	11.3
24	6.1	5.1	5.6	7.6	5.9	6.8	8.7	4.8	7.0	12.2	10.2	11.1
25	5.6	4.5	5.3	7.9	6.5	6.8	7.8	5.3	6.4	12.1	9.6	10.6
26	5.1	4.0	4.5	8.2	7.3	7.7	6.5	4.3	5.3	13.6	9.1	11.2
27	6.4	5.0	5.7	8.2	7.1	7.7	7.8	4.8	6.1	13.6	10.2	11.6
28	6.7	5.4	5.9	7.4	6.2	7.1	8.1	5.7	6.7	13.5	9.3	11.3
29	6.8	5.6	6.2	6.2	4.7	5.5	---	---	---	13.6	9.9	11.6
30	7.4	6.5	6.9	5.3	4.0	4.7	---	---	---	14.4	10.1	11.9
31	7.8	7.0	7.3	5.6	4.3	4.9	---	---	---	15.0	10.1	12.2
MONTH	---	---	---	9.6	4.0	6.9	10.1	4.2	6.4	15.0	5.1	9.4



SALMON FALLS CREEK BASIN  
13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, DECEMBER 2001 TO NOVEMBER 2002

DAY	APRIL			MAY			JUNE			JULY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.2	10.5	12.8	14.6	12.2	13.3	22.8	18.7	20.5	25.3	18.6	22.2
2	14.9	10.5	12.6	16.2	11.6	13.7	20.5	16.3	18.6	25.6	17.7	21.6
3	15.5	10.7	12.9	16.5	12.4	14.4	21.5	15.4	18.2	26.2	19.8	23.2
4	16.5	10.7	13.4	15.7	11.0	13.4	21.8	15.4	18.5	25.1	19.6	22.6
5	16.9	12.1	14.4	15.8	12.4	14.2	22.7	16.5	19.7	25.1	18.6	21.9
6	16.2	12.1	14.2	16.3	12.7	14.4	21.3	16.6	19.4	25.1	19.1	22.4
7	15.7	11.5	13.4	15.5	11.0	12.8	19.5	14.7	17.3	27.2	19.9	23.3
8	16.6	11.6	13.8	13.3	8.4	10.6	17.9	12.7	15.6	25.5	20.6	23.0
9	14.9	12.6	13.4	13.0	9.6	11.3	15.4	11.3	13.6	25.3	18.0	21.6
10	15.4	12.2	13.7	14.1	10.5	12.0	16.9	12.6	14.3	25.8	17.8	22.2
11	16.6	11.9	14.0	15.4	10.9	12.8	19.0	12.4	15.5	26.5	19.4	22.9
12	17.3	12.9	14.9	16.9	11.5	13.9	20.7	13.5	17.0	27.8	19.9	23.7
13	16.5	12.6	14.9	17.9	12.9	15.3	22.3	15.8	18.9	27.8	20.4	24.1
14	17.4	14.4	15.7	16.9	13.0	15.2	23.3	17.3	20.0	26.5	21.2	24.2
15	15.4	11.0	12.3	16.0	11.6	13.8	25.4	19.0	21.7	25.5	21.6	23.8
16	13.2	9.9	11.7	17.4	12.9	15.1	25.4	18.7	21.8	24.3	20.9	22.6
17	13.5	10.4	12.0	18.1	13.6	16.0	23.2	18.1	20.6	25.1	20.2	22.6
18	12.6	9.1	10.6	18.2	14.7	16.8	23.4	18.1	20.3	23.9	20.9	22.4
19	12.4	9.3	10.5	21.0	15.8	18.2	21.9	15.3	18.6	25.1	20.2	22.4
20	13.5	9.1	11.2	19.0	14.4	16.3	20.4	16.1	18.2	25.6	20.1	22.6
21	14.3	9.4	11.6	15.5	12.4	13.2	23.2	18.3	20.2	24.4	19.3	21.8
22	16.0	10.7	13.0	15.5	10.9	12.8	22.6	17.8	19.9	23.2	19.8	21.4
23	14.7	11.3	12.8	14.1	10.9	12.6	23.9	17.8	20.5	25.1	19.3	21.9
24	14.1	8.7	11.3	16.6	11.3	14.0	24.8	19.9	22.2	25.5	19.4	22.3
25	15.4	10.1	12.5	18.4	13.8	16.0	27.2	19.8	23.2	25.3	20.7	22.7
26	15.2	11.5	13.3	19.2	14.4	16.9	26.7	20.9	23.8	24.3	18.8	21.6
27	14.4	11.0	12.9	20.3	14.7	17.8	27.9	20.9	24.4	23.7	18.0	20.9
28	16.0	10.9	13.1	21.5	16.5	18.9	27.4	21.9	24.1	22.9	16.5	19.8
29	15.5	11.8	13.9	22.8	16.8	19.7	25.8	20.4	23.2	23.4	17.8	20.4
30	15.5	12.7	14.1	23.8	17.3	20.7	26.0	18.9	22.5	23.6	18.5	20.8
31	---	---	---	24.2	17.9	21.0	---	---	---	22.4	18.9	20.6
MONTH	17.4	8.7	13.0	24.2	8.4	15.1	27.9	11.3	19.7	27.8	16.5	22.2

DAY	AUGUST			SEPTEMBER			OCTOBER			NOVEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.7	16.7	19.5	20.4	16.5	18.7	13.3	11.2	12.2	8.2	5.8	6.9
2	23.9	18.9	21.3	21.7	16.5	18.9	12.8	11.1	11.9	8.2	5.8	6.9
3	22.1	18.5	20.4	21.7	16.9	19.3	12.0	10.5	11.2	8.2	6.2	7.1
4	22.6	18.5	20.2	20.7	17.7	19.4	13.9	11.4	12.4	8.5	6.5	7.4
5	22.1	16.5	19.2	20.7	18.0	19.1	14.5	12.0	13.0	9.1	6.8	7.8
6	22.2	16.9	19.5	19.8	17.2	18.5	14.5	12.0	13.1	9.9	7.4	8.5
7	20.9	15.8	18.2	18.6	16.2	17.3	15.1	12.0	13.3	10.0	8.8	9.3
8	20.9	14.7	17.8	18.6	15.0	16.7	14.7	12.2	13.2	10.6	9.5	9.9
9	20.9	15.1	17.8	18.5	14.2	16.4	14.3	11.6	12.9	10.8	9.5	10.1
10	22.2	16.1	18.8	18.6	14.0	16.3	13.7	11.4	12.5	10.8	9.9	10.1
11	22.1	17.3	19.6	18.5	14.7	16.8	12.6	10.2	11.2	11.2	9.7	10.2
12	21.7	17.0	19.3	19.1	14.8	17.1	11.7	9.1	10.2	10.5	8.9	9.7
13	22.7	16.1	19.2	19.4	15.1	17.5	11.6	8.5	9.9	11.1	9.9	10.4
14	22.6	16.5	19.6	19.1	14.7	17.1	11.6	8.9	10.1	10.5	9.2	9.9
15	22.9	17.8	20.1	19.3	15.3	17.5	11.6	8.8	10.0	10.5	8.8	9.5
16	22.2	17.0	19.7	18.3	15.8	17.1	11.9	9.1	10.3	10.3	8.9	9.6
17	22.2	15.8	19.0	17.3	15.1	16.2	12.2	9.4	10.6	10.9	8.9	9.7
18	21.2	15.4	18.5	16.5	13.6	15.2	12.2	9.4	10.6	9.9	8.2	8.9
19	21.6	15.6	18.4	16.7	13.3	14.8	12.3	9.4	10.7	10.5	8.9	9.7
20	20.7	16.5	18.5	17.0	13.7	15.3	12.5	9.9	11.0	10.8	8.9	9.8
21	20.1	15.6	17.7	15.9	13.3	14.6	12.6	10.6	11.5	11.1	9.2	10.1
22	19.9	15.3	17.5	15.6	12.2	13.9	12.8	11.7	12.2	10.9	9.4	10.2
23	20.1	16.2	18.1	16.1	12.6	14.2	12.3	11.2	11.8	11.4	10.3	10.7
24	20.7	16.1	18.3	16.4	13.3	14.8	12.6	10.3	11.4	10.5	9.1	9.7
25	21.1	15.9	18.5	16.1	13.3	14.8	12.6	10.5	11.5	---	---	---
26	20.4	16.9	18.6	16.2	12.6	14.4	12.2	10.0	11.2	---	---	---
27	20.9	16.2	18.4	15.8	13.7	14.7	11.7	9.7	10.8	---	---	---
28	20.4	16.9	18.6	15.6	12.6	14.1	11.7	10.3	10.9	---	---	---
29	21.4	17.0	19.0	14.8	12.8	13.8	10.9	9.4	10.2	---	---	---
30	20.9	17.0	18.8	14.3	12.0	13.2	10.2	7.7	8.9	---	---	---
31	21.1	17.3	19.1	---	---	---	8.3	6.8	7.5	---	---	---
MONTH	23.9	14.7	18.9	21.7	12.0	16.3	15.1	6.8	11.2	---	---	---