

Water-Data Report 2013

## 13094000 SNAKE RIVER NEAR BUHL, ID

Upper Snake Basin  
Upper Snake-Rock Subbasin

LOCATION.--Lat 42°39'57", long 114°42'44" referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.9, T.9 S., R.15 E., Twin Falls County, ID, Hydrologic Unit 17040212, Niagara Springs quad., 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.

DRAINAGE AREA.--22,990 mi<sup>2</sup>.

### SURFACE-WATER 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. Station equipment includes satellite telemetry and crest stage gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft<sup>3</sup>/s June 22, 1997, gage height, 14.65 ft; minimum, 1,250 ft<sup>3</sup>/s March 28, 31, and April 1, 4, 6, 2013, gage height, 0.49 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,730 ft<sup>3</sup>/s May 5, gage height, 3.89 ft; minimum daily, 1,260 ft<sup>3</sup>/s March 28, 29, 31.

## 13094000 SNAKE RIVER NEAR BUHL, ID—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,180	1,680	2,130	1,950	2,100	1,810	1,270	1,840	4,080	1,570	3,300	1,870
2	2,180	1,670	2,080	1,940	2,080	1,830	1,270	2,210	4,060	1,570	3,330	1,910
3	2,170	1,660	2,070	1,920	2,060	1,850	1,280	4,090	3,600	1,570	3,320	1,980
4	2,270	1,650	2,080	1,910	2,070	1,840	1,270	4,250	2,940	1,590	3,350	2,070
5	2,230	1,650	2,240	1,910	2,070	1,810	1,270	4,460	2,270	1,640	3,370	2,220
6	2,230	1,650	2,170	1,920	2,050	1,830	1,270	4,190	1,790	1,660	3,340	2,140
7	2,200	1,650	2,160	1,920	1,990	1,830	1,360	4,130	1,620	1,660	3,350	2,100
8	2,250	1,650	2,200	1,920	1,980	1,830	1,410	4,150	1,590	1,690	3,610	2,110
9	2,210	1,650	2,190	1,920	1,980	1,830	1,390	4,120	1,590	1,690	3,680	2,130
10	2,210	1,640	2,170	1,930	1,970	1,820	1,500	3,940	1,610	1,680	2,910	2,060
11	2,200	1,620	2,150	1,950	1,940	1,810	1,560	3,940	1,580	1,670	2,120	2,010
12	2,170	1,590	2,140	1,950	1,940	1,820	1,550	3,940	1,570	1,700	1,930	2,010
13	2,110	1,600	2,140	1,900	1,940	1,810	1,520	4,010	1,600	1,710	1,870	2,050
14	2,150	1,610	2,140	1,890	1,940	1,810	1,610	4,070	1,630	1,730	1,870	2,090
15	2,190	1,610	2,150	1,890	1,940	1,810	1,660	4,080	1,630	1,780	1,870	2,100
16	2,150	1,600	2,100	1,880	1,910	1,820	1,670	4,070	1,610	1,770	1,870	2,130
17	2,180	1,730	2,130	1,870	1,930	1,810	1,730	4,100	1,590	1,760	1,860	2,130
18	2,150	1,870	2,120	1,870	1,930	1,820	1,680	4,120	1,530	1,730	1,880	2,100
19	2,120	1,870	2,100	1,870	1,920	1,810	1,720	4,130	1,480	1,720	1,900	2,090
20	2,060	1,860	2,080	1,860	1,970	1,820	1,710	4,200	1,560	1,720	1,880	2,090
21	2,030	1,880	2,070	1,860	1,940	1,840	1,700	4,070	1,560	1,740	1,860	2,110
22	2,090	2,000	2,080	1,860	1,910	1,750	1,700	4,030	1,570	1,770	1,860	2,130
23	2,160	2,020	2,090	1,860	1,910	1,470	1,610	4,070	1,560	1,980	1,870	2,190
24	2,090	2,020	2,080	1,870	1,920	1,330	1,660	4,040	1,590	3,160	1,870	2,100
25	2,040	1,960	2,030	1,880	1,880	1,270	1,660	4,010	1,610	3,240	1,880	2,110
26	1,920	1,890	2,060	1,910	1,850	1,270	1,590	4,050	1,600	3,260	1,910	2,140
27	1,830	1,880	1,990	1,910	1,830	1,270	1,600	4,110	1,560	3,260	1,890	2,170
28	1,740	1,870	1,960	1,890	1,900	1,260	1,570	4,160	1,540	3,270	1,860	2,140
29	1,730	1,910	1,970	1,940	---	1,260	1,580	4,190	1,530	3,320	1,840	2,110
30	1,700	2,050	1,970	2,080	---	1,270	1,690	4,160	1,560	3,310	1,840	2,140
31	1,690	---	1,970	2,110	---	1,260	---	4,100	---	3,300	1,850	---
<b>Total</b>	64,630	52,990	65,010	59,340	54,850	51,670	46,060	123,030	56,610	65,220	73,140	62,730
<b>Mean</b>	2,085	1,766	2,097	1,914	1,959	1,667	1,535	3,969	1,887	2,104	2,359	2,091
<b>Max</b>	2,270	2,050	2,240	2,110	2,100	1,850	1,730	4,460	4,080	3,320	3,680	2,220
<b>Min</b>	1,690	1,590	1,960	1,860	1,830	1,260	1,270	1,840	1,480	1,570	1,840	1,870
<b>Ac-ft</b>	128,200	105,100	128,900	117,700	108,800	102,500	91,360	244,000	112,300	129,400	145,100	124,400

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	4,090	4,448	4,979	5,466	5,549	5,657	6,845	6,410	6,142	3,101	2,841	3,061
<b>Max</b>	12,260	14,760	13,350	15,950	19,570	21,110	20,570	19,590	26,480	7,917	5,903	8,770
<b>(WY)</b>	(1985)	(1985)	(1984)	(1984)	(1997)	(1997)	(1971)	(1984)	(1997)	(1983)	(2011)	(1997)
<b>Min</b>	1,959	1,766	1,651	1,914	1,879	1,545	1,535	1,633	1,623	1,663	1,739	1,863
<b>(WY)</b>	(2004)	(2013)	(2006)	(2013)	(2005)	(1991)	(2013)	(1992)	(2002)	(2004)	(2004)	(2005)

**13094000 SNAKE RIVER NEAR BUHL, ID—Continued**

**SUMMARY STATISTICS**

	Calendar Year 2012		Water Year 2013		Water Years 1947 - 2013	
<b>Annual total</b>	1,330,410		775,280			
<b>Annual mean</b>	3,635		2,124		4,880	
<b>Highest annual mean</b>					11,620	1984
<b>Lowest annual mean</b>					1,860	2004
<b>Highest daily mean</b>	10,700	Apr 7	4,460	May 5	36,100	Jun 21, 1997
<b>Lowest daily mean</b>	1,520	May 17	1,260	Mar 28	1,260	Mar 28, 2013
<b>Annual seven-day minimum</b>	1,580	May 16	1,270	Mar 25	1,270	Mar 25, 2013
<b>Annual runoff (ac-ft)</b>	2,639,000		1,538,000		3,536,000	
<b>10 percent exceeds</b>	6,530		3,350		11,000	
<b>50 percent exceeds</b>	2,240		1,910		3,020	
<b>90 percent exceeds</b>	1,720		1,570		1,940	

