

Water-Data Report 2011

13334300 SNAKE RIVER NEAR ANATONE, WA

Lower Snake Basin
Lower Snake-Asotin Subbasin

LOCATION.--Lat 46°05'50", long 116°58'36" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.12, T.7 N., R.46 E., Asotin County, WA, Hydrologic Unit 17060103, on left bank 1.2 mi downstream from Grande Ronde River, 7.8 mi east of Anatone, 22 mi south of Clarkston, and at mile 167.2.

DRAINAGE AREA.--92,960 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR WA-76-1: 1974 and 1975.

GAGE.--Water-stage recorder. Datum of gage is 806.68 ft above NGVD of 1929. Prior to Aug. 3, 2010 previously reported as Datum of gage is 806.78 ft above NGVD.

REMARKS.--Records good. Diversions upstream from station for irrigation of about 4,090,000 acres, of which about 750,000 acres are irrigated by withdrawals from ground water. Flow regulated by many reservoirs upstream from station with a total usable capacity of more than 10,000,000 acre-ft, the most effective of which is Brownlee Reservoir, 117.8 mi upstream. Diurnal fluctuations caused by Hells Canyon powerplant. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--53 years (water years 1958-2011), 34,700 ft³/s, 25,140,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft³/s, June 18, 1974, gage height, 24.45 ft; minimum discharge, 6,010 ft³/s, Sept. 2, 1958, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147,000 ft³/s, June 8, gage height 19.76 ft; minimum discharge, 13,300 ft³/s, Nov. 27, gage height, 3.47 ft.

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20,700	15,300	14,700	26,700	32,200	34,200	62,800	63,200	113,000	120,000	32,500	22,500
2	19,000	15,400	14,500	25,200	29,400	36,300	67,500	62,800	106,000	107,000	36,200	19,200
3	19,400	15,400	14,700	24,900	23,100	36,100	69,000	63,200	111,000	101,000	35,800	19,400
4	18,600	15,500	15,000	25,000	23,400	36,500	68,600	65,600	108,000	96,900	32,500	20,000
5	19,500	15,400	14,900	26,300	22,800	34,300	77,800	66,100	107,000	95,200	27,400	20,300
6	19,500	15,300	14,700	22,600	23,400	36,200	77,100	62,900	112,000	92,100	26,800	23,300
7	20,000	15,500	14,700	26,000	24,400	36,400	73,700	63,400	126,000	87,500	26,600	23,900
8	e19,500	15,900	14,800	25,600	25,800	33,300	70,600	67,700	144,000	81,200	27,800	31,200
9	17,700	16,300	15,000	24,100	25,100	32,400	68,200	72,500	145,000	77,100	28,300	32,400
10	19,800	16,100	15,200	25,500	24,500	28,600	66,100	70,700	140,000	72,000	28,000	29,300
11	18,300	15,800	15,500	27,000	28,100	32,900	64,700	70,200	133,000	67,200	25,200	32,100
12	14,700	15,500	15,600	21,300	28,100	33,700	64,000	74,300	130,000	63,800	24,000	31,200
13	14,700	15,300	18,900	23,700	28,600	34,000	63,500	84,500	133,000	62,600	25,000	31,700
14	14,700	15,100	25,100	24,200	29,000	35,500	63,000	98,900	138,000	57,900	23,000	31,500
15	14,600	15,300	28,100	27,200	34,100	32,600	62,000	120,000	138,000	60,200	22,500	29,800
16	14,400	16,000	28,500	27,700	35,200	39,000	62,600	139,000	136,000	58,500	22,900	30,900
17	14,300	16,700	26,400	46,200	38,500	44,400	67,800	129,000	127,000	56,900	24,900	32,200
18	14,400	16,200	26,100	47,000	38,400	46,200	70,900	125,000	119,000	54,800	22,800	32,400
19	14,400	15,800	23,000	42,600	36,400	50,300	83,100	115,000	114,000	53,600	21,500	33,300
20	14,300	15,400	22,800	38,800	36,300	49,400	83,800	119,000	114,000	51,400	19,800	31,800
21	14,300	15,200	23,100	38,200	36,500	49,100	82,400	121,000	110,000	48,400	21,600	31,400
22	14,200	15,100	21,700	37,500	36,700	50,700	76,500	125,000	115,000	48,800	23,900	29,100
23	14,300	15,100	23,000	38,500	34,200	50,200	74,200	137,000	126,000	47,200	24,400	30,700
24	14,300	14,600	21,800	36,400	33,800	53,500	73,100	137,000	133,000	47,200	24,200	29,200
25	14,800	13,900	23,500	37,000	34,700	54,400	68,100	140,000	132,000	42,700	23,900	31,200
26	16,000	13,600	21,700	36,700	35,500	54,100	68,400	141,000	124,000	39,800	24,100	30,800
27	16,200	13,500	23,400	33,500	35,600	53,900	68,300	141,000	117,000	37,100	22,100	29,800
28	16,000	14,200	23,900	32,800	35,500	53,500	66,100	134,000	113,000	37,500	19,200	29,900
29	15,600	14,900	24,500	34,700	---	54,000	64,600	126,000	117,000	36,000	23,500	29,400
30	15,300	15,000	26,400	33,700	---	59,300	63,900	120,000	124,000	35,100	23,400	29,800
31	15,200	---	27,600	31,900	---	66,300	---	115,000	---	34,100	22,100	---
Total	508,700	458,300	638,800	968,500	869,300	1,341,300	2,092,400	3,170,000	3,705,000	1,970,800	785,900	859,700
Mean	16,410	15,280	20,610	31,240	31,050	43,270	69,750	102,300	123,500	63,570	25,350	28,660
Max	20,700	16,700	28,500	47,000	38,500	66,300	83,800	141,000	145,000	120,000	36,200	33,300
Min	14,200	13,500	14,500	21,300	22,800	28,600	62,000	62,800	106,000	34,100	19,200	19,200
Ac-ft	1,009,000	909,000	1,267,000	1,921,000	1,724,000	2,660,000	4,150,000	6,288,000	7,349,000	3,909,000	1,559,000	1,705,000

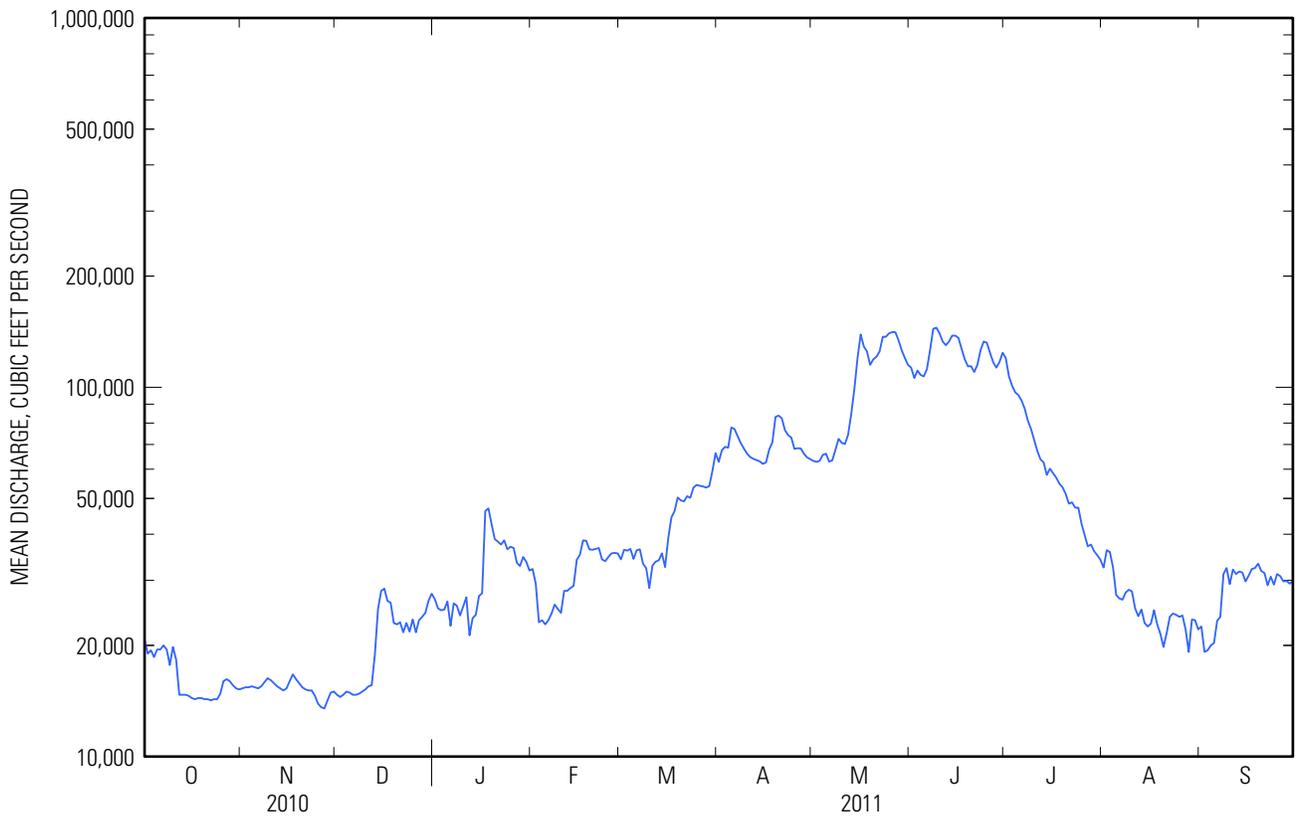
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	20,390	20,870	23,630	28,330	31,670	38,050	48,100	66,900	71,100	30,630	17,950	19,150
Max	31,540	36,960	41,630	71,930	72,520	90,400	92,900	118,700	134,200	63,860	29,140	31,730
(WY)	(1985)	(1985)	(1965)	(1997)	(1965)	(1972)	(2006)	(1984)	(1984)	(1982)	(1997)	(1997)
Min	13,060	12,720	12,940	16,140	15,540	18,490	18,880	20,610	16,850	12,830	9,765	10,180
(WY)	(2004)	(2004)	(2003)	(2001)	(2005)	(2005)	(1977)	(1977)	(1992)	(1977)	(1992)	(1992)

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1958 - 2011	
Annual total	10,722,500		17,368,700			
Annual mean	29,380		47,590		34,700	
Highest annual mean					59,030	1997
Lowest annual mean					18,050	1992
Highest daily mean	159,000	Jun 6	145,000	Jun 9	191,000	Jun 18, 1974
Lowest daily mean	13,500	Nov 27	13,500	Nov 27	6,630	Sep 1, 1958
Annual seven-day minimum	14,200	Nov 24	14,200	Nov 24	7,150	Aug 28, 1958
Annual runoff (ac-ft)	21,270,000		34,450,000		25,140,000	
10 percent exceeds	53,200		115,000		72,600	
50 percent exceeds	21,700		32,500		25,000	
90 percent exceeds	14,800		15,300		14,800	



13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURE: Water years 1973 to May 1984, October 1985 to current year.

TOTAL DISSOLVED GAS: April 2009 to current year (seasonal records only). Seasonal records from April 2003 to September 2008, available in files of the U.S. Geological Survey Kennewick Field Office (U.S. Army Corps of Engineers Walla Walla has data for April 1999 to September 2002)

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1959 to May 1984, April 1986 to current year.

TOTAL DISSOLVED GAS: April 2009 to current year (seasonal records only).

INSTRUMENTATION.--Temperature recorder since October 1959. Total dissolved gas monitor with a 1-hour logging interval since 1999.

REMARKS.--Temperature and total dissolved gas records good. Prior to Oct. 1990, temperature records furnished by U.S. Army Corps of Engineers. Prior to Oct. 2003, temperature records were rounded to nearest half degree.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 25.5°C (rounded), Aug. 26, 28, 1991, Aug. 2-4, 1994, Aug. 14, 1998; minimum, 0.0°C, several days during some winter months.

TOTAL DISSOLVED GAS: Maximum recorded, 111 percent saturation, June 8, 2010, June 25, 2011; minimum, 96 percent saturation Aug. 22, 23, 26, 27, 2010, but may have been higher or lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.0°C, Aug. 29; minimum, 0.6°C, Feb. 3.

TOTAL DISSOLVED GAS: Maximum recorded, 111 percent saturation, June 25; minimum, 99 percent saturation Sept. 1,3, but may have been higher or lower during periods of missing record.

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	19.6	18.8	19.1	11.9	11.8	11.8	5.1	4.7	4.9	3.2	2.8	3.0
2	19.5	18.7	19.0	12.2	11.7	11.9	5.0	4.7	4.9	3.1	2.2	2.7
3	19.1	18.6	18.9	12.2	11.6	11.9	5.2	4.9	5.0	3.1	2.0	2.6
4	18.7	18.4	18.6	12.0	11.6	11.8	5.1	4.8	4.9	2.9	2.2	2.5
5	18.5	17.8	18.2	11.8	11.5	11.6	5.0	4.6	4.9	2.6	2.0	2.4
6	18.2	17.5	17.8	12.1	11.6	11.8	4.7	4.5	4.6	2.9	2.5	2.8
7	18.0	17.6	17.8	11.9	11.5	11.7	5.1	4.7	4.9	3.2	2.8	3.0
8	18.0	17.3	17.8	11.5	10.7	11.1	5.3	5.0	5.1	3.2	2.8	3.1
9	17.7	17.1	17.4	10.7	10.1	10.3	5.4	5.2	5.3	3.0	2.7	2.9
10	18.1	17.4	17.8	10.1	9.8	10	5.5	5.3	5.4	3.1	2.7	2.8
11	17.8	16.5	17.4	9.8	9.5	9.7	5.4	5.1	5.3	3.1	2.8	3.0
12	16.5	15.7	16.1	10.0	9.6	9.8	5.5	5.2	5.3	3.0	2.7	2.8
13	15.7	15.1	15.4	9.7	9.3	9.4	6.2	5.5	5.7	3.3	3.0	3.2
14	15.6	14.9	15.2	9.5	9.3	9.4	6.5	5.7	6.2	3.5	3.2	3.4
15	15.6	14.8	15.2	9.6	9.2	9.4	5.9	5.4	5.7	3.4	3.2	3.3
16	14.9	14.4	14.6	9.9	9.5	9.7	5.6	4.5	5.1	3.7	3.4	3.5
17	14.6	13.9	14.2	9.5	9.2	9.4	4.7	4.0	4.4	4.4	3.5	4.0
18	14.2	13.6	13.8	9.2	8.5	9.0	4.4	4.0	4.2	4.2	3.7	4.0
19	13.9	13.3	13.6	8.5	7.6	8.1	4.4	4.1	4.3	3.7	2.9	3.4
20	13.9	13.2	13.5	7.6	7.2	7.5	4.6	4.1	4.4	2.9	2.4	2.5
21	13.9	13.2	13.5	7.3	7.0	7.1	4.3	3.8	4.1	3.0	2.4	2.7
22	14.0	13.3	13.6	7.2	6.8	7.1	3.9	3.6	3.7	3.3	2.9	3.1
23	13.9	13.6	13.7	6.8	5.5	6.3	4.3	3.8	4.1	3.3	2.8	3.0
24	13.8	13.3	13.6	5.6	5.1	5.4	4.5	4.0	4.3	3.4	3.0	3.2
25	13.3	12.3	12.8	5.5	5.1	5.3	4.7	4.3	4.5	3.8	3.3	3.5
26	12.4	11.9	12.1	5.5	4.6	5.1	4.7	4.3	4.4	3.6	3.2	3.4
27	12.3	11.8	12.0	5.3	4.8	5.1	4.8	4.3	4.6	3.8	3.1	3.4
28	12.0	11.8	11.9	5.4	5.1	5.3	4.9	4.7	4.8	3.9	3.3	3.5
29	12.0	11.8	11.9	5.3	5.0	5.2	4.8	4.0	4.5	3.5	3.3	3.4
30	12.0	11.8	11.9	5.1	4.8	5.0	4.0	3.5	3.8	3.3	3.0	3.2
31	12.3	11.8	12.0	---	---	---	3.5	3.0	3.3	3.0	2.2	2.7
Month	19.6	11.8	15.2	12.2	4.6	8.7	6.5	3.0	4.7	4.4	2.0	3.1

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2.2	1.2	1.7	3.8	3.0	3.4	8.4	7.1	7.6	10.6	9.1	10
2	1.2	0.9	1.0	4.0	3.6	3.8	8.5	7.3	8.1	10.5	9.9	10.2
3	1.1	0.6	0.9	4.8	4.0	4.4	7.3	6.9	7.1	10.5	9.7	10.1
4	2.2	1.1	1.6	4.8	4.4	4.6	7.3	6.9	7.1	11.0	9.6	10.3
5	3.3	2.2	2.8	5.2	4.6	4.8	7.8	7.1	7.3	11.3	10.4	10.9
6	3.1	2.8	2.9	5.4	4.8	5.0	7.2	6.7	7.0	11.1	10.7	10.9
7	3.2	2.8	3.0	5.2	4.9	5.0	7.0	6.3	6.6	11.3	10.6	10.9
8	3.3	3.0	3.2	5.0	4.6	4.7	7.5	6.4	7.0	11.0	10.4	10.6
9	3.4	2.8	3.0	5.3	4.6	4.9	8.2	7.1	7.6	10.4	10.0	10.2
10	2.9	2.2	2.5	5.5	5.1	5.3	8.6	8.0	8.3	11.4	9.8	10.6
11	2.8	2.2	2.5	5.7	5.0	5.3	8.9	8.1	8.5	12.0	10.8	11.4
12	3.2	2.6	2.9	5.5	4.8	5.2	8.9	7.9	8.4	11.9	10.9	11.5
13	4.1	3.0	3.6	5.9	5.2	5.6	8.8	8.3	8.4	11.9	10.7	11.3
14	4.0	3.6	3.7	6.2	5.6	5.9	8.7	8.0	8.3	12.4	11.8	12.0
15	4.0	3.7	3.8	6.2	5.7	6.0	8.4	7.9	8.2	12.0	10.6	11.4
16	4.0	3.6	3.8	6.0	5.6	5.8	8.9	7.9	8.5	10.6	9.7	10.0
17	3.8	3.4	3.6	6.0	5.2	5.7	8.9	8.1	8.6	9.8	9.2	9.5
18	3.6	3.4	3.5	6.2	5.4	5.8	8.5	7.8	8.1	10.8	9.6	10.1
19	3.7	3.5	3.6	6.3	5.7	6.1	8.5	7.6	8.1	11.7	10.3	11.0
20	3.8	3.5	3.6	6.3	5.5	5.8	8.6	7.8	8.2	12.7	11.4	12.1
21	3.7	3.4	3.6	6.2	5.9	6.1	9.4	8.5	8.9	12.6	12.0	12.4
22	3.7	3.5	3.5	6.7	6.0	6.3	9.2	8.2	8.7	12.5	12.1	12.3
23	3.6	3.2	3.4	6.6	5.8	6.3	9.8	8.4	9.2	12.3	11.5	12.0
24	3.6	3.2	3.3	7.1	6.3	6.7	10.1	9.1	9.7	11.5	10.9	11.0
25	3.2	2.5	2.9	7.5	6.9	7.2	10.2	9.6	9.9	11.3	10.8	11.0
26	2.5	2.1	2.3	7.5	6.8	7.2	10.3	9.2	9.7	11.4	10.8	11.1
27	2.7	2.4	2.5	7.6	7.2	7.4	10.0	9.3	9.7	11.2	10.7	10.9
28	3.1	2.6	2.9	7.5	7.1	7.3	10.4	9.5	9.9	11.4	10.3	10.8
29	---	---	---	7.4	6.9	7.1	9.9	9.2	9.5	11.6	10.7	11.2
30	---	---	---	7.3	7.0	7.1	9.9	9.0	9.5	12.1	11.1	11.6
31	---	---	---	7.6	7.1	7.3	---	---	---	12.3	11.6	12.0
Month	4.1	0.6	2.9	7.6	3.0	5.8	10.4	6.3	8.4	12.7	9.1	11.0

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	12.4	12.1	12.2	15.1	14.1	14.6	22.7	21.5	22.0	22.2	21.4	21.7
2	12.2	11.1	11.6	15.6	14.4	15.0	22.6	21.5	22.0	21.9	21.1	21.4
3	12.1	10.8	11.4	16.2	15.2	15.7	22.7	21.6	22.1	21.7	20.7	21.2
4	12.8	11.6	12.1	16.5	15.5	16.0	22.2	21.6	22.0	21.7	20.5	21.1
5	13.5	12.6	13.1	16.9	15.8	16.3	22.3	21.0	21.6	21.9	20.8	21.2
6	13.2	12.4	12.7	17.0	16.0	16.5	22.6	21.1	21.8	21.9	20.9	21.4
7	12.7	12.1	12.4	17.0	16.3	16.7	22.5	21.1	21.8	22.1	21.3	21.6
8	12.3	11.3	11.9	16.9	16.0	16.5	22.5	21.1	21.8	22.2	21.4	21.7
9	11.8	10.7	11.3	16.5	15.7	16.1	22.6	21.4	21.9	22.1	21.7	21.9
10	12.1	11.4	11.8	16.8	16.0	16.4	22.3	21.4	21.8	22.0	21.4	21.7
11	12.6	11.5	12.0	17.4	16.5	16.9	22.1	21.0	21.5	22.1	21.7	21.8
12	13.3	12.1	12.7	18.1	17.3	17.7	22.2	20.8	21.5	22.2	21.7	21.9
13	13.5	12.8	13.1	17.9	17.2	17.6	22.2	21.2	21.7	22.0	21.6	21.8
14	13.3	12.5	12.9	17.5	16.8	17.2	22.0	21.2	21.6	21.8	21.5	21.6
15	13.2	12.6	12.9	18.4	17.5	17.9	21.7	21.1	21.4	21.5	20.9	21.3
16	12.7	12.2	12.5	18.2	18.0	18.0	21.6	20.5	21.1	21.3	20.8	20.9
17	13.4	12.2	12.8	18.8	17.9	18.3	22.2	21.2	21.6	20.8	20.4	20.6
18	13.2	12.4	12.8	19.7	18.7	19.2	22.2	21.2	21.6	20.8	20.4	20.6
19	12.7	12.1	12.4	19.5	19.1	19.3	22.1	21.1	21.5	21.0	20.4	20.8
20	13.5	12.3	12.8	19.4	18.6	19.0	22.1	21.0	21.5	20.7	20.2	20.4
21	14.4	13.1	13.7	19.8	18.8	19.3	22.4	21.2	21.8	20.5	20.0	20.2
22	14.9	13.9	14.4	19.9	19.1	19.5	22.6	21.6	22.1	20.7	20.0	20.2
23	14.6	13.6	14.3	20.0	19.0	19.5	23.0	22.0	22.4	20.8	20.2	20.4
24	13.9	13.3	13.6	20.6	19.5	20.0	23.2	22.2	22.6	20.8	20.2	20.4
25	13.9	13.0	13.5	21.0	20.2	20.6	23.6	22.6	23.0	20.4	19.8	20.1
26	14.2	13.2	13.7	21.3	20.3	20.8	23.7	22.8	23.1	20.3	19.6	19.9
27	14.7	13.6	14.2	21.3	20.2	20.7	23.8	22.8	23.2	20.0	19.7	19.9
28	15.3	14.3	14.8	21.4	20.2	20.7	23.8	22.8	23.2	19.9	19.4	19.6
29	15.2	14.5	14.9	21.6	20.5	21.0	24.0	23.0	23.4	19.5	19.0	19.2
30	14.9	14.2	14.5	21.7	20.7	21.2	23.4	22.4	23.0	19.6	19.0	19.3
31	---	---	---	22.4	21.0	21.6	22.7	21.7	22.3	---	---	---
Month	15.3	10.7	13.0	22.4	14.1	18.3	24.0	20.5	22.1	22.2	19.0	20.9

	Max	Min	Mean
Year	24.0	0.6	11.2

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	104	102	103	108	105	107
2	---	---	---	---	---	---	103	102	103	107	106	106
3	---	---	---	---	---	---	103	101	102	107	105	106
4	---	---	---	---	---	---	104	103	103	109	105	107
5	---	---	---	---	---	---	104	103	104	108	106	107
6	---	---	---	---	---	---	104	103	104	107	105	106
7	---	---	---	---	---	---	105	103	104	107	105	106
8	---	---	---	---	---	---	106	104	105	106	105	105
9	---	---	---	---	---	---	106	104	105	105	104	105
10	---	---	---	---	---	---	105	104	105	107	104	105
11	---	---	---	---	---	---	106	104	105	107	104	105
12	---	---	---	---	---	---	107	104	105	105	103	104
13	---	---	---	---	---	---	106	105	105	108	104	106
14	---	---	---	---	---	---	106	104	105	109	106	107
15	---	---	---	---	---	---	107	105	106	107	106	107
16	---	---	---	---	---	---	107	105	106	108	106	107
17	---	---	---	102	100	101	106	104	105	108	106	107
18	---	---	---	104	101	102	105	103	104	108	106	107
19	---	---	---	104	101	103	107	104	106	107	106	106
20	---	---	---	104	103	103	108	106	107	108	106	107
21	---	---	---	104	103	103	108	106	107	108	106	107
22	---	---	---	104	102	103	108	105	106	108	106	107
23	---	---	---	105	103	104	109	106	107	108	107	108
24	---	---	---	106	104	105	108	106	107	108	107	107
25	---	---	---	106	104	105	107	106	106	109	108	109
26	---	---	---	107	104	106	107	104	106	109	107	108
27	---	---	---	107	104	105	107	105	106	109	107	108
28	---	---	---	106	104	105	107	105	106	109	107	108
29	---	---	---	106	105	105	106	105	106	108	107	107
30	---	---	---	106	105	106	107	105	106	108	106	107
31	---	---	---	105	104	105	---	---	---	108	106	107
Month	---	---	---	---	---	---	109	101	105	109	103	107

13334300 SNAKE RIVER NEAR ANATONE, WA—Continued

**TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	107	106	107	110	107	109	105	100	103	105	99	101
2	107	105	105	109	107	108	105	101	103	105	100	102
3	107	105	106	108	106	107	105	101	103	106	99	102
4	108	105	106	108	106	107	104	101	102	106	100	102
5	107	106	106	108	105	106	103	100	101	106	100	102
6	106	106	106	108	105	106	105	100	102	105	100	102
7	108	106	107	107	105	106	106	100	102	106	100	102
8	109	107	108	107	104	105	105	100	102	104	101	102
9	110	108	109	107	104	105	106	100	103	104	101	102
10	110	108	109	107	104	105	106	100	103	104	101	102
11	110	108	109	107	104	105	105	100	102	---	---	---
12	110	108	109	106	104	105	105	100	102	---	---	---
13	109	108	108	104	103	104	105	101	102	---	---	---
14	110	107	109	105	103	104	105	100	102	---	---	---
15	109	108	109	106	103	104	104	100	101	---	---	---
16	109	108	109	104	103	104	106	100	102	---	---	---
17	110	108	109	106	103	104	105	100	102	---	---	---
18	109	107	108	105	102	104	105	100	102	---	---	---
19	108	107	107	103	102	103	105	100	102	---	---	---
20	109	107	108	105	102	103	106	100	102	---	---	---
21	109	106	108	105	102	103	105	100	102	---	---	---
22	110	107	108	104	102	103	105	100	102	---	---	---
23	109	107	108	105	101	103	105	100	102	---	---	---
24	110	108	109	105	102	103	105	100	102	---	---	---
25	111	108	109	105	102	103	105	101	102	---	---	---
26	110	108	109	105	101	103	105	100	102	---	---	---
27	110	108	109	104	101	102	105	100	102	---	---	---
28	109	108	108	105	101	102	105	100	102	---	---	---
29	109	107	108	105	101	103	105	100	102	---	---	---
30	110	107	108	105	101	103	104	100	102	---	---	---
31	---	---	---	105	101	103	104	100	101	---	---	---
Month	111	105	108	110	101	104	106	100	102	---	---	---