

12398600 PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY

Pend Oreille Basin
 Pend Oreille Subbasin

LOCATION.--Lat 48°59'56", long 117°21'09" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.3, T.40 N., R.43 E., Pend Oreille County, WA, Hydrologic Unit 17010216, on left bank 0.1 mi upstream from international boundary, 0.9 mi downstream from Boundary Dam, 6.0 mi downstream from Slate Creek, 9.7 mi north of Metaline Falls, and at mile 16.1.

DRAINAGE AREA.--25,200 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1908 to September 1910 (gage heights only), December 1912 to October 1995, October 1996 to current year. Prior to October 1928, published as "Clark Fork at Metaline Falls," October 1928 to September 1937 as "Clark Fork below Z Canyon, near Metaline Falls," and October 1938 to September 1964 as "below Z Canyon, near Metaline Falls." Concurrent records published for present site December 1962 to September 1964.

REVISED RECORDS.--WSP 442: 1913. WSP 1716: 1919.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is 1,700.00 ft above NGVD of 1929 (City of Seattle Boundary Dam datum). Prior to Dec. 20, 1928, non-recording gage at Metaline Falls at datum approximately 1,983.4 ft above NGVD of 1929. Dec. 20, 1928, to Sept. 30, 1964, water-stage recorder at site 1.3 mi upstream at datum 1,721.18 ft NGVD of 1929 (levels by Corps of Engineers).

COOPERATION.--Discharge records at Boundary Dam provided by Seattle City Light's Power Resources Branch. The U.S. Geological Survey made six discharge measurements at this site during the year.

REMARKS.--Flow regulated by Boundary Reservoir 0.9 mi upstream beginning April 1967, Box Canyon Reservoir beginning June 1955, Pend Oreille Lake beginning June 1952, Flathead Lake beginning April 1938, Hungry Horse Reservoir beginning September 1951, and by several smaller reservoirs and power plants. In 1980 there were diversions for irrigation of 429,700 acres upstream from the station and there probably has not been any appreciable change since that time.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--100 years (water years 1913-95, 1997-2013), 26,440 ft³/s, 19,160,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 171,300 ft³/s, June 13, 1948, gage height, 60.25 ft, site and datum then in use; minimum daily discharge, no flow at times most years, result of regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 69.0 ft, from floodmarks, at site and datum 1.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 75,900 ft³/s, May 18; minimum daily discharge, 3,930 ft³/s, Sept. 8.

DISCHARGE MEASUREMENTS
 WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Discharge in ft ³ /s
Oct. 9, 2012	22,100
Dec. 5, 2012	33,800
Feb. 19, 2013	20,100
Apr. 10, 2013	48,500
Jun. 10, 2013	47,200
Aug. 6, 2013	15,100

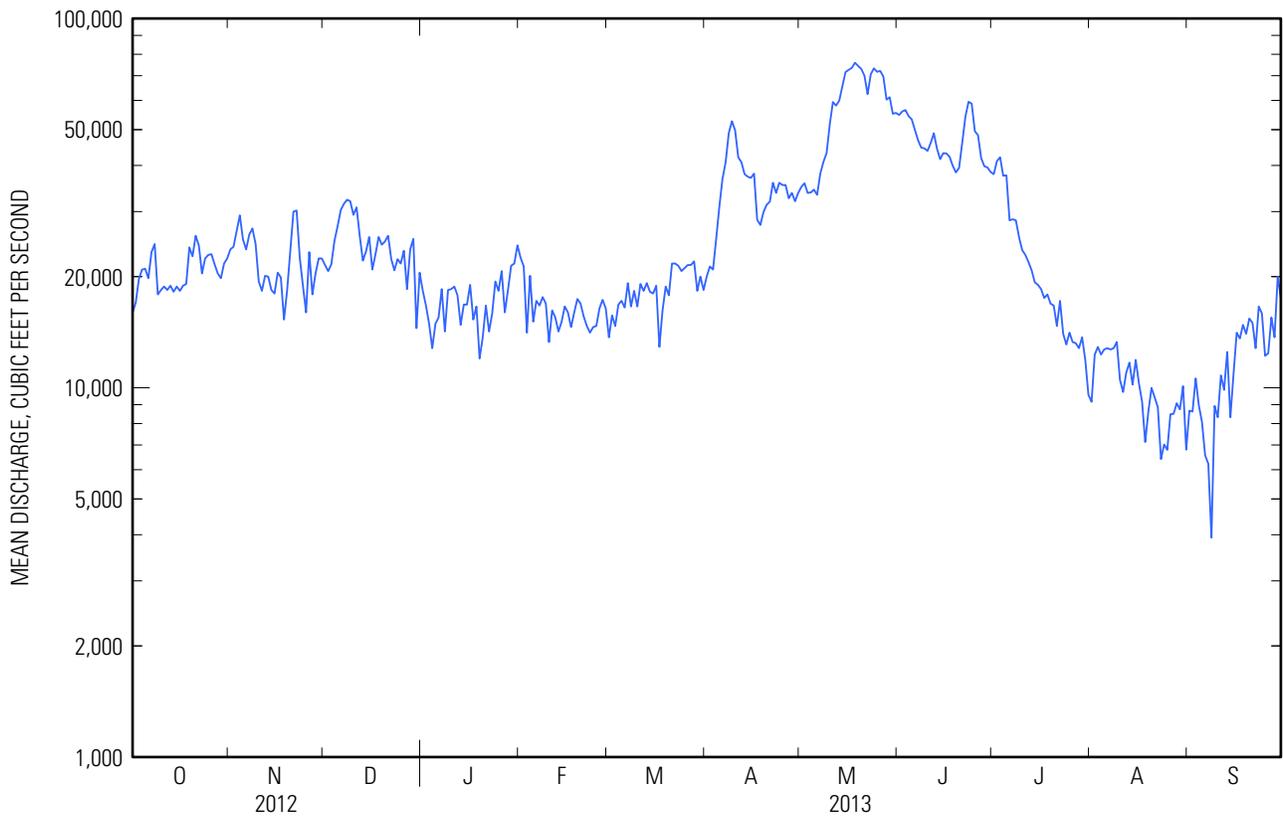
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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16,000	23,700	21,500	18,300	22,500	13,700	20,000	35,000	54,800	37,900	9,160	8,670
2	17,000	24,100	20,700	16,700	21,300	15,700	21,300	35,800	56,000	41,100	12,300	8,620
3	19,700	26,600	21,600	14,900	14,100	14,700	20,900	33,700	56,500	42,100	12,900	10,600
4	20,900	29,300	25,000	12,800	20,100	16,800	25,300	33,800	54,400	37,500	12,300	8,960
5	21,000	25,200	27,400	14,900	15,100	17,200	30,900	34,400	53,300	37,600	12,700	8,080
6	19,800	23,700	30,300	15,500	17,200	16,500	36,800	33,300	49,900	28,400	12,800	6,560
7	23,300	26,000	31,500	18,500	16,700	19,200	40,800	38,000	46,800	28,600	12,700	6,230
8	24,500	27,000	32,300	14,200	17,600	16,600	49,000	40,900	44,700	28,400	12,800	3,930
9	17,900	24,500	32,000	18,400	16,900	18,300	52,700	43,200	44,500	25,600	13,300	8,930
10	18,400	19,400	29,400	18,500	13,300	16,600	49,800	51,600	43,800	23,600	10,500	8,320
11	18,800	18,300	30,800	18,800	16,200	19,100	42,100	59,400	46,000	22,900	9,740	10,800
12	18,400	20,100	25,800	17,800	15,500	18,300	40,800	58,100	48,900	21,900	11,000	9,870
13	18,900	20,000	22,100	14,800	14,200	19,200	37,900	59,900	44,400	20,800	11,700	12,500
14	18,200	18,400	23,400	16,800	15,100	18,200	37,300	65,500	41,600	19,300	10,200	8,320
15	18,800	18,000	25,600	16,800	16,600	18,000	37,000	71,600	43,200	19,000	11,900	10,900
16	18,300	20,500	20,900	19,000	16,000	18,900	38,000	72,600	43,100	18,500	10,300	14,100
17	18,900	19,900	23,000	15,300	14,600	12,900	28,500	73,500	42,200	17,500	9,180	13,600
18	19,100	15,300	25,600	16,600	16,000	16,200	27,600	75,900	39,900	17,900	7,130	14,800
19	24,000	18,400	24,400	12,000	17,400	18,800	29,900	74,400	38,300	16,900	8,620	14,000
20	22,700	23,500	24,900	13,700	16,900	17,800	31,300	73,000	39,400	16,700	9,990	15,400
21	25,800	30,000	25,800	16,700	15,600	21,700	31,900	70,000	46,100	14,700	9,420	15,000
22	24,300	30,200	22,300	14,200	14,700	21,700	35,900	62,400	54,200	17,200	8,860	12,800
23	20,400	22,500	20,800	15,900	14,100	21,400	33,700	70,600	59,500	14,000	6,410	16,600
24	22,400	18,900	22,300	19,400	14,600	20,700	35,900	73,300	58,800	13,100	7,020	15,900
25	22,900	16,000	21,700	18,300	14,700	21,100	35,400	71,700	49,500	14,100	6,790	12,200
26	23,000	23,300	23,500	20,700	16,400	21,500	35,400	72,100	48,300	13,300	8,480	12,400
27	21,600	17,900	18,500	16,000	17,300	21,500	32,600	69,600	41,900	13,200	8,500	15,500
28	20,400	20,400	23,700	18,400	16,400	22,000	33,700	60,300	39,800	12,800	9,080	13,700
29	19,800	22,400	25,300	21,400	---	18,300	32,000	61,200	39,500	13,700	8,740	20,000
30	21,700	22,400	14,500	21,700	---	20,000	33,700	55,200	38,400	11,900	10,100	17,500
31	22,400	---	20,500	24,300	---	18,400	---	55,500	---	9,570	6,800	---
Total	639,300	665,900	757,100	531,300	457,100	571,000	1,038,100	1,785,500	1,407,700	669,770	311,420	354,790
Mean	20,620	22,200	24,420	17,140	16,320	18,420	34,600	57,600	46,920	21,610	10,050	11,830
Max	25,800	30,200	32,300	24,300	22,500	22,000	52,700	75,900	59,500	42,100	13,300	20,000
Min	16,000	15,300	14,500	12,000	13,300	12,900	20,000	33,300	38,300	9,570	6,410	3,930
Ac-ft	1,268,000	1,321,000	1,502,000	1,054,000	906,700	1,133,000	2,059,000	3,542,000	2,792,000	1,328,000	617,700	703,700

	Calendar Year 2012	Water Year 2013
Total	11,629,840	9,188,980
Mean	31,780	25,180
Max	96,700	75,900
Min	4,840	3,930
Ac-ft	23,070,000	18,230,000

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses October 1973 to September 1986. Water years 1974 to 1981 (National Stream-quality Accounting Network Station). Water-quality monitor April 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1974 to September 1981.

WATER TEMPERATURE: April 1974 to September 1981, April 1999 to current year.

TOTAL DISSOLVED GAS: May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor April 1974 to September 1981; April 1999 to current year, with a 15-minute logging interval.

REMARKS.--Temperature records excellent except for partial days which are good. Total dissolved gas records are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 242 microsiemens, July 17, 1974; minimum, 62 microsiemens, Apr. 25, 1975.

WATER TEMPERATURE: Maximum, 24.7°C July 28, 2006; minimum, 0.0°C, at times during winter periods.

TOTAL DISSOLVED GAS: Maximum, 154 percent saturation, June 2, 9, 2011, but may have been higher during periods of missing record; minimum, 85 percent saturation, Nov. 2, 2012 but may have been lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.4°C, Aug. 18; minimum, 0.5°C, Jan. 24-26.

TOTAL DISSOLVED GAS: Maximum recorded, 136 percent saturation, April 10, May 15, 18; minimum recorded 85 percent saturation, November 2, but may have been higher or lower during periods of missing record.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.7	17.2	17.5	9.8	9.7	9.7	5.4	5.3	5.4	3.3	3.2	3.3
2	17.5	17.1	17.3	10.0	9.8	9.9	5.6	5.4	5.5	3.2	2.9	3.1
3	17.2	16.8	17.0	10.1	10.0	10.0	5.7	5.6	5.7	2.9	2.6	2.8
4	16.8	16.4	16.7	10.2	10.1	10.1	5.8	5.7	5.7	2.6	2.3	2.5
5	16.4	15.9	16.2	10.3	10.2	10.2	5.8	5.7	5.8	2.3	2.1	2.2
6	15.9	15.2	15.5	10.4	10.2	10.3	5.7	5.6	5.6	2.1	2.0	2.1
7	15.2	15.0	15.1	10.6	10.4	10.5	5.6	5.6	5.6	2.0	1.8	1.9
8	15.0	14.8	14.9	10.6	10.6	10.6	5.6	5.4	5.5	1.9	1.7	1.8
9	14.8	14.7	14.7	10.6	10.2	10.4	5.4	5.1	5.2	1.8	1.7	1.7
10	14.7	14.3	14.6	10.2	9.7	10.0	5.1	4.9	4.9	1.7	1.6	1.7
11	14.6	14.3	14.5	9.7	9.2	9.5	4.9	4.5	4.7	1.7	1.5	1.7
12	14.4	14.1	14.3	9.2	8.6	8.9	4.5	4.4	4.5	1.7	1.6	1.7
13	14.2	13.9	14.1	8.6	8.1	8.3	4.5	4.4	4.5	1.6	1.5	1.6
14	13.9	13.8	13.9	8.1	7.7	7.9	4.5	4.5	4.5	1.6	1.4	1.5
15	13.8	13.7	13.8	7.7	7.3	7.5	4.5	4.5	4.5	1.4	1.3	1.3
16	13.7	13.6	13.7	7.3	7.1	7.2	4.5	4.4	4.4	1.3	1.1	1.2
17	13.7	13.4	13.6	7.1	6.8	6.9	4.4	4.3	4.3	1.1	0.9	1.0
18	13.5	13.3	13.5	6.8	6.4	6.6	4.3	3.9	4.1	1.1	0.8	1.0
19	13.4	13.3	13.4	6.4	6.0	6.2	3.9	3.7	3.8	1.2	0.9	1.1
20	13.3	12.9	13.2	6.1	5.9	5.9	3.7	3.6	3.6	1.2	1.1	1.2
21	12.9	12.4	12.7	6.1	5.9	6.0	3.6	3.5	3.5	1.2	0.9	1.1
22	12.4	12.1	12.3	6.4	6.0	6.2	3.5	3.4	3.5	1.0	0.8	0.9
23	12.1	11.6	11.8	6.5	6.4	6.5	3.4	3.2	3.3	0.8	0.6	0.7
24	11.6	11.3	11.5	6.5	6.5	6.5	3.2	3.2	3.2	0.8	0.5	0.6
25	11.3	10.9	11.1	6.5	6.4	6.4	3.4	3.2	3.3	0.6	0.5	0.5
26	10.9	10.6	10.7	6.4	6.3	6.4	3.6	3.4	3.4	0.7	0.5	0.6
27	10.6	10.6	10.6	6.3	6.0	6.2	3.6	3.5	3.6	0.9	0.7	0.8
28	10.6	10.4	10.5	6.1	5.9	6.0	3.7	3.6	3.6	1.3	0.9	1.1
29	10.4	10.1	10.3	5.9	5.6	5.7	3.6	3.5	3.6	1.5	1.2	1.4
30	10.1	9.9	10.0	5.6	5.4	5.5	3.6	3.4	3.5	1.7	1.5	1.6
31	9.9	9.7	9.8	---	---	---	3.4	3.3	3.4	1.8	1.7	1.7
Month	17.7	9.7	13.5	10.6	5.4	7.9	5.8	3.2	4.4	3.3	0.5	1.5

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	1.9	1.7	1.8	3.3	3.1	3.3	6.7	6.3	6.5	9.4	9.2	9.3
2	2.3	1.9	2.0	---	---	---	7.2	6.7	6.9	9.2	8.9	9.0
3	2.6	2.3	2.4	3.4	3.2	3.4	7.7	7.2	7.4	9.2	8.8	9.0
4	2.8	2.6	2.7	3.6	3.1	3.4	8.1	7.7	7.8	9.5	9.1	9.3
5	2.9	2.8	2.9	3.7	3.4	3.6	8.4	8.1	8.2	10.1	9.5	9.8
6	3.0	2.9	2.9	3.9	3.7	3.8	8.5	8.3	8.4	10.8	10.1	10.5
7	3.1	2.9	3.0	4.0	3.8	3.9	8.3	8.2	8.3	11.5	10.8	11.2
8	3.1	3.0	3.1	4.0	3.9	3.9	8.2	8.0	8.1	12.2	11.5	11.9
9	3.3	3.0	3.2	4.1	3.9	4.0	8.0	7.7	7.9	12.8	12.1	12.5
10	3.4	3.1	3.3	4.1	3.9	4.0	7.7	7.3	7.5	13.4	12.7	13.2
11	3.4	3.3	3.3	4.2	3.9	4.1	7.5	7.3	7.4	13.7	13.3	13.6
12	3.4	3.3	3.4	4.3	4.0	4.2	7.3	6.9	7.1	13.8	13.4	13.6
13	3.4	3.2	3.3	4.5	4.3	4.4	7.0	6.9	7.0	14.0	13.5	13.7
14	3.3	3.0	3.2	4.4	4.3	4.3	7.1	7.0	7.1	14.1	13.1	13.8
15	3.3	3.2	3.2	4.4	4.3	4.4	7.0	6.7	6.9	13.1	12.6	12.8
16	3.2	3.1	3.1	4.5	4.3	4.4	6.7	6.5	6.6	12.6	11.5	12.2
17	3.3	3.1	3.2	4.8	4.4	4.6	6.8	6.4	6.5	11.7	11.3	11.4
18	3.3	3.0	3.2	5.0	4.6	4.8	6.6	6.4	6.5	12.3	11.7	12.1
19	3.4	3.3	3.4	5.2	4.9	5.1	6.9	6.6	6.7	12.4	12.3	12.4
20	3.4	3.3	3.4	5.3	5.2	5.3	7.2	6.9	7.1	12.9	12.4	12.7
21	3.3	3.1	3.3	5.3	5.1	5.3	7.5	7.2	7.4	12.9	12.5	12.7
22	3.3	3.0	3.2	5.1	4.8	4.9	7.8	7.5	7.7	12.6	12.6	12.6
23	3.3	3.0	3.2	4.9	4.7	4.7	8.0	7.7	7.9	12.9	12.5	12.7
24	3.4	3.1	3.3	4.8	4.6	4.7	8.1	7.9	8.0	12.9	12.4	12.7
25	3.5	3.3	3.4	4.7	4.6	4.6	8.3	8.0	8.1	12.6	12.0	12.2
26	3.5	3.4	3.4	4.7	4.5	4.6	8.6	8.3	8.5	12.7	12.0	12.5
27	3.4	3.2	3.4	4.8	4.5	4.7	9.0	8.6	8.8	12.7	12.5	12.6
28	3.3	3.2	3.3	5.1	4.8	4.9	9.5	9.0	9.3	12.5	12.3	12.3
29	---	---	---	5.5	5.1	5.3	9.7	9.5	9.6	13.2	12.4	12.8
30	---	---	---	5.9	5.5	5.7	9.6	9.4	9.5	13.4	13.1	13.3
31	---	---	---	6.3	5.9	6.1	---	---	---	13.1	12.8	12.9
Month	3.5	1.7	3.1	---	---	---	9.7	6.3	7.7	14.1	8.8	12.0

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	13.2	12.8	13.0	18.5	18.0	18.3	---	---	---	22.3	21.5	22.0
2	13.6	13.2	13.4	19.5	18.4	19.0	23.8	23.1	23.6	22.2	21.5	21.9
3	13.2	12.7	12.9	20.3	19.5	20.1	23.7	23.3	23.5	22.1	21.5	21.9
4	13.6	12.8	13.2	20.8	20.3	20.6	23.5	23.0	23.2	22.1	21.7	22.0
5	14.3	13.6	14.0	21.1	20.6	20.8	23.3	22.8	23.1	22.2	21.8	22.0
6	14.8	14.3	14.7	21.3	20.7	20.9	23.3	22.7	23.0	22.0	21.7	21.9
7	15.1	14.8	15.0	21.2	20.7	20.9	23.2	22.6	22.9	22.0	21.7	21.8
8	15.6	15.1	15.4	21.2	20.7	21.0	23.1	22.4	22.7	22.1	21.4	21.7
9	16.3	15.6	16.0	21.2	20.8	21.0	23.1	21.8	22.7	22.0	21.4	21.7
10	16.4	16.0	16.2	21.0	20.6	20.8	23.3	22.6	23.0	21.9	21.3	21.6
11	16.7	16.1	16.5	20.9	20.7	20.8	23.5	22.8	23.3	21.7	21.2	21.5
12	16.9	16.4	16.7	21.2	20.7	20.9	23.8	23.2	23.5	21.7	21.1	21.5
13	16.5	16.0	16.3	21.4	21.0	21.3	23.9	23.0	23.6	21.7	21.1	21.4
14	16.2	16.0	16.1	21.7	21.1	21.5	24.1	23.4	23.9	21.6	21.1	21.4
15	16.4	16.1	16.3	21.8	21.4	21.6	24.2	23.4	24.0	21.6	20.8	21.3
16	16.8	16.2	16.6	21.8	21.1	21.5	24.2	23.6	23.9	21.4	21.1	21.3
17	16.8	16.5	16.6	21.9	21.5	21.8	24.3	23.2	23.9	21.5	21.1	21.4
18	17.1	16.5	16.8	22.4	21.7	22.1	24.4	23.5	23.9	21.5	21.0	21.4
19	17.3	17.1	17.2	22.5	21.8	22.2	24.1	23.5	23.9	21.5	21.0	21.3
20	17.2	17.1	17.1	22.8	22.1	22.4	24.0	23.2	23.7	21.3	20.8	21.0
21	17.1	16.7	16.9	23.0	22.1	22.6	23.9	23.0	23.6	20.8	20.4	20.7
22	16.7	16.4	16.5	23.1	22.4	22.8	23.8	22.9	23.4	20.4	19.9	20.2
23	16.6	16.0	16.4	23.3	22.1	22.9	23.5	23.1	23.4	19.9	19.2	19.6
24	16.0	15.6	15.7	23.7	22.3	23.2	23.6	22.7	23.2	19.2	18.6	19.0
25	16.5	15.8	16.2	23.8	22.6	23.4	23.4	22.8	23.1	18.6	17.9	18.4
26	16.8	16.5	16.7	23.9	23.0	23.6	23.3	22.8	23.1	18.4	17.8	18.1
27	16.9	16.7	16.8	24.0	23.2	23.8	23.1	22.3	22.8	17.8	17.2	17.6
28	17.3	16.9	17.1	24.1	23.3	23.8	---	---	---	17.2	16.7	17.0
29	17.5	17.1	17.4	24.1	23.5	23.9	---	---	---	16.7	16.1	16.4
30	18.1	17.5	17.9	24.2	23.4	23.9	22.4	21.9	22.2	16.1	15.5	15.9
31	---	---	---	---	---	---	22.5	21.4	22.0	---	---	---
Month	18.1	12.7	15.9	---	---	---	---	---	---	22.3	15.5	20.5

12398600 PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY—Continued

TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	103	98	101	97	97	97	---	---	---	---	---	---
2	102	100	101	98	85	97	---	---	---	---	---	---
3	102	99	100	102	97	98	---	---	---	---	---	---
4	101	97	98	102	100	101	---	---	---	---	---	---
5	100	97	98	105	102	104	---	---	---	---	---	---
6	100	98	99	105	103	104	---	---	---	---	---	---
7	100	98	99	105	104	104	---	---	---	---	---	---
8	103	98	100	105	104	105	---	---	---	---	---	---
9	106	98	100	105	104	104	---	---	---	---	---	---
10	110	98	100	105	100	103	---	---	---	---	---	---
11	101	99	100	100	97	98	---	---	---	---	---	---
12	105	99	100	101	96	97	---	---	---	---	---	---
13	100	98	99	102	96	98	---	---	---	---	---	---
14	102	98	99	107	97	100	---	---	---	---	---	---
15	102	99	100	---	---	---	---	---	---	---	---	---
16	101	98	100	---	---	---	---	---	---	---	---	---
17	101	98	98	---	---	---	---	---	---	---	---	---
18	99	97	98	---	---	---	---	---	---	---	---	---
19	100	98	99	---	---	---	---	---	---	---	---	---
20	104	98	100	---	---	---	---	---	---	---	---	---
21	101	99	100	---	---	---	---	---	---	---	---	---
22	103	101	102	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	97	96	96	---	---	---	---	---	---	---	---	---
28	97	97	97	---	---	---	---	---	---	---	---	---
29	98	96	97	---	---	---	---	---	---	---	---	---
30	97	96	97	---	---	---	---	---	---	---	---	---
31	97	96	97	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

12398600 PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY—Continued

TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	104	98	100	106	104	105	112	109	110
2	---	---	---	104	100	101	106	104	105	113	111	112
3	---	---	---	103	99	101	106	105	105	113	112	112
4	---	---	---	103	100	101	107	105	106	114	112	113
5	---	---	---	102	99	101	111	106	108	116	113	114
6	---	---	---	104	101	102	117	111	113	116	114	115
7	---	---	---	102	100	101	120	116	118	118	114	117
8	---	---	---	102	99	100	135	119	127	126	117	122
9	---	---	---	101	99	100	135	131	133	130	125	126
10	---	---	---	101	98	100	136	131	134	133	127	130
11	---	---	---	102	99	100	135	120	128	134	129	132
12	---	---	---	103	100	101	122	119	121	133	127	131
13	---	---	---	103	100	101	121	119	120	133	128	131
14	---	---	---	103	100	101	119	117	118	133	130	132
15	---	---	---	103	100	102	118	117	117	136	133	134
16	---	---	---	103	101	103	117	115	116	135	133	134
17	---	---	---	105	101	103	117	112	115	135	132	134
18	---	---	---	105	101	103	112	106	110	136	133	134
19	---	---	---	103	101	102	112	105	109	135	131	133
20	102	100	100	108	103	105	113	111	112	135	132	133
21	101	99	100	105	101	103	112	110	111	134	131	132
22	102	100	101	104	99	101	111	110	111	133	127	131
23	102	99	100	101	99	100	113	111	112	135	129	133
24	104	99	100	102	99	100	114	112	113	135	131	133
25	102	100	101	101	99	100	115	113	114	134	130	132
26	102	98	99	102	100	101	114	113	113	133	130	132
27	100	98	99	103	100	101	115	113	114	132	130	131
28	100	97	98	104	102	102	114	113	114	130	126	128
29	---	---	---	104	100	102	114	112	114	131	128	130
30	---	---	---	103	102	103	112	110	111	129	119	125
31	---	---	---	105	103	104	---	---	---	---	---	---
Month	---	---	---	108	98	101	136	104	115	---	---	---

12398600 PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY—Continued

**TOTAL PARTIAL PRESSURE OF DISSOLVED GASES, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	107	99	102	103	96	100
2	---	---	---	---	---	---	107	100	103	105	97	100
3	---	---	---	---	---	---	105	99	101	107	97	100
4	---	---	---	---	---	---	110	100	102	117	100	104
5	---	---	---	---	---	---	104	101	101	115	98	103
6	---	---	---	---	---	---	104	101	102	101	96	98
7	---	---	---	---	---	---	110	101	103	105	95	99
8	---	---	---	---	---	---	104	101	102	103	97	99
9	---	---	---	---	---	---	103	99	101	101	96	98
10	---	---	---	---	---	---	107	101	103	101	96	98
11	---	---	---	---	---	---	109	102	104	103	95	99
12	---	---	---	---	---	---	105	100	103	100	96	99
13	---	---	---	---	---	---	105	98	102	101	96	99
14	---	---	---	---	---	---	109	103	105	104	97	100
15	---	---	---	---	---	---	108	100	104	108	100	103
16	---	---	---	---	---	---	112	101	104	103	97	100
17	---	---	---	---	---	---	107	100	103	103	99	101
18	---	---	---	---	---	---	106	97	101	105	99	102
19	---	---	---	---	---	---	112	100	104	101	96	99
20	---	---	---	---	---	---	107	97	101	109	99	102
21	---	---	---	---	---	---	106	100	103	103	98	100
22	---	---	---	---	---	---	---	---	---	100	95	98
23	---	---	---	---	---	---	---	---	---	99	95	98
24	---	---	---	---	---	---	113	101	104	102	97	99
25	---	---	---	---	---	---	111	99	104	102	98	99
26	---	---	---	---	---	---	106	97	101	102	96	98
27	---	---	---	---	---	---	122	100	106	101	92	97
28	---	---	---	---	---	---	104	99	102	101	96	99
29	---	---	---	---	---	---	118	98	102	104	98	99
30	---	---	---	---	---	---	103	96	99	102	97	99
31	---	---	---	---	---	---	101	96	98	---	---	---
Month	---	---	---	---	---	---	---	---	---	117	92	100