

PEND OREILLE RIVER BASIN

12398550 BOUNDARY DAM RESERVOIR NEAR METALINE FALLS, WA

LOCATION.--Lat 48°59'20", long 117°20'55", in NE 1/4 NE 1/4 sec.10, T.40 N., R.43 E., Pend Oreille County, Hydrologic Unit 17010216, at Boundary Dam 1.0 mi upstream from international boundary, 8.8 mi north of Metaline Falls and at mile 17.

DRAINAGE AREA.--25,200 mi², approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 1999 to current year.
TOTAL DISSOLVED GAS: April 1999 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1999.

REMARKS.--Temperature record rated excellent. Total dissolved gas record rated good.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum recorded, 24.0°C (rounded) on several days during August, 2000, but may have been higher during periods of missing record; minimum recorded, 0.0°C Dec. 21-29, 2001, but may have occurred during periods of missing winter record.
TOTAL DISSOLVED GAS: Maximum recorded, 137 percent June 22, 2002; minimum 92 percent, Dec. 28, 2000, but may have been lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.5°C on July 29; minimum, 0.1°C Jan. 7-9.
TOTAL DISSOLVED GAS: Maximum, 137 percent, June 22; minimum, 95 percent, Dec. 23-26, Feb. 2, but may have been lower during periods of missing record.

PRESSURE, TOTAL PARTIAL, DISSOLVED GASSES, UNFILTERED, PERCENT SATURATION, OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	99	98	98	97	97	97	98	99	99	96	96	96
2	98	98	98	96	97	97	98	99	98	97	97	97
3	98	98	98	97	96	96	97	98	98	97	97	97
4	98	97	97	97	97	97	97	97	97	96	96	96
5	98	98	98	98	98	98	97	97	97	97	96	96
6	98	99	99	97	98	97	96	97	97	98	98	98
7	98	97	98	96	96	96	95	96	95	99	99	99
8	98	97	98	96	97	96	95	97	96	98	99	99
9	97	97	97	97	97	97	96	97	96	98	98	98
10	97	97	97	97	97	97	97	97	97	99	97	98
11	97	98	97	97	98	98	97	97	97	100	100	99
12	96	97	96	98	99	99	97	98	97	101	101	101
13	96	96	96	99	99	99	98	100	99	100	98	99
14	96	96	96	98	98	98	98	100	99	99	98	99
15	96	96	96	98	98	98	97	97	97	98	97	98
16	97	97	97	98	98	98	98	98	98	97	97	97
17	97	97	97	97	98	98	96	98	97	96	96	96
18	97	96	97	97	97	97	---	---	---	96	97	96
19	97	97	97	97	98	98	---	---	---	97	97	97
20	97	97	97	99	99	99	---	---	---	98	98	98
21	98	98	98	100	100	100	---	---	---	98	98	98
22	98	99	99	100	101	101	96	96	96	97	97	97
23	97	99	98	99	100	99	94	95	95	96	97	96
24	97	97	96	99	100	100	95	95	95	97	98	97
25	96	96	96	98	100	99	95	95	95	98	98	98
26	97	96	97	97	98	97	96	95	95	98	98	98
27	98	98	99	97	98	97	96	97	96	97	98	97
28	98	97	97	98	100	99	97	97	96	97	97	97
29	98	97	98	99	100	100	96	96	96	97	97	97
30	98	99	98	98	98	98	96	96	96	97	96	97
31	98	99	98	---	---	---	96	96	96	96	96	96
MONTH	99	96	97	100	96	98	---	---	---	101	96	97

PEND OREILLE RIVER BASIN

12398550 BOUNDARY DAM RESERVOIR NEAR METALINE FALLS, WA--Continued

PRESSURE, TOTAL PARTIAL, DISSOLVED GASSES, WATER, UNFILTERED, PERCENT SATURATION, WATER YEAR OCTOBER 2001 T

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	96	96	96	97	96	97	103	104	104	109	110	109
2	96	95	95	96	96	96	103	103	103	111	111	111
3	96	96	96	96	96	96	104	104	104	112	109	110
4	96	96	96	97	99	98	104	104	104	111	108	109
5	97	97	97	99	99	99	105	105	105	110	108	109
6	97	98	98	99	100	99	105	105	106	110	106	107
7	99	99	99	100	100	100	105	106	105	106	104	105
8	97	100	98	99	99	99	105	105	105	111	107	109
9	96	96	96	99	99	99	105	105	105	112	111	112
10	97	98	97	99	99	99	105	105	105	115	113	114
11	97	98	97	99	100	99	105	104	104	115	114	114
12	97	97	97	99	100	99	104	105	104	113	110	112
13	98	99	98	98	99	99	105	106	105	111	110	111
14	97	97	97	99	99	99	107	107	106	111	109	110
15	97	97	97	100	100	100	111	107	109	109	106	108
16	98	98	98	100	100	100	118	111	114	106	106	106
17	99	99	99	100	100	100	117	113	117	109	106	107
18	99	99	99	99	99	99	113	112	113	110	107	109
19	99	99	99	99	99	99	112	110	111	110	109	109
20	98	98	98	98	99	99	113	111	112	110	109	109
21	97	99	98	97	98	98	114	113	113	113	109	111
22	100	100	100	99	100	99	114	114	114	116	113	115
23	100	101	100	100	100	100	112	113	112	123	116	119
24	98	100	98	99	100	100	112	108	111	128	124	126
25	97	98	97	100	99	99	108	106	107	128	123	125
26	97	98	98	100	101	101	112	109	111	126	123	125
27	97	98	98	102	102	102	113	112	113	128	126	127
28	98	98	98	102	102	102	112	111	111	128	128	128
29	---	---	---	103	101	102	111	110	110	130	129	129
30	---	---	---	103	103	103	110	109	109	130	129	129
31	---	---	---	103	104	104	---	---	---	128	123	124
MONTH	100	95	98	103	96	100	118	103	108	130	104	114
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	123	123	123	127	127	127	102	102	102	102	102	102
2	124	123	124	128	128	128	102	100	102	102	102	102
3	124	115	120	134	130	133	102	100	101	103	102	102
4	115	113	114	134	131	132	102	99	101	101	100	101
5	114	114	114	130	128	129	102	100	101	101	100	100
6	113	113	113	127	127	127	100	100	100	100	100	100
7	113	113	113	127	123	126	101	99	100	100	100	100
8	113	112	112	120	122	121	101	100	100	99	98	99
9	112	112	112	122	121	122	101	100	101	99	98	99
10	113	113	113	124	122	123	102	101	102	99	98	99
11	113	113	113	125	121	124	103	102	102	101	99	99
12	114	113	113	122	118	121	103	102	102	100	99	100
13	114	114	114	119	118	119	104	103	103	101	99	100
14	115	115	115	119	117	118	105	103	104	102	100	101
15	116	116	116	117	116	117	105	104	104	101	101	101
16	117	116	117	117	116	116	103	103	103	101	101	101
17	117	117	117	118	116	117	103	103	103	101	101	101
18	119	116	116	116	114	115	103	102	102	100	100	100
19	122	119	121	114	113	113	103	102	102	100	100	100
20	129	123	127	114	113	113	103	101	102	100	100	99
21	136	130	135	114	112	113	103	101	101	99	98	99
22	137	134	136	112	108	110	102	100	101	99	98	98
23	134	134	134	108	106	108	103	99	101	98	98	98
24	133	133	133	108	107	108	103	100	101	99	99	99
25	135	133	134	107	106	107	103	100	101	99	99	99
26	135	132	133	107	107	107	102	100	101	99	99	100
27	131	129	129	107	106	107	103	100	101	100	100	100
28	130	129	129	107	105	106	103	102	102	100	100	100
29	130	129	129	107	105	105	104	103	103	100	100	100
30	128	127	128	104	104	104	103	102	103	99	100	99
31	---	---	---	102	102	102	103	102	102	---	---	---
MONTH	137	112	122	134	102	117	105	99	102	103	98	100

12398550 BOUNDARY DAM RESERVOIR NEAR METALINE FALLS, WA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.9	17.6	17.7	9.2	9.0	9.1	5.8	5.5	5.7	0.7	0.5	0.6
2	17.7	17.2	17.4	9.0	9.0	9.0	5.7	5.3	5.5	0.6	0.4	0.5
3	17.3	16.9	17.1	9.2	9.0	9.1	5.3	4.9	5.1	0.5	0.3	0.4
4	17.0	16.5	16.7	9.1	9.0	9.1	5.0	4.6	4.8	0.4	0.3	0.3
5	16.5	16.2	16.3	9.2	9.1	9.2	4.6	4.2	4.4	0.3	0.3	0.3
6	16.2	15.8	16.1	9.1	9.0	9.1	4.3	3.9	4.2	0.3	0.2	0.2
7	15.9	15.6	15.8	9.0	8.8	9.0	3.9	3.5	3.8	0.2	0.1	0.2
8	15.6	15.2	15.4	8.8	8.7	8.8	3.5	3.2	3.3	0.2	0.1	0.2
9	15.2	14.7	15.1	8.7	8.2	8.5	3.2	2.9	3.1	0.4	0.1	0.2
10	14.8	14.2	14.5	8.2	7.7	7.9	3.0	2.7	2.8	1.1	0.4	0.7
11	14.2	13.8	14.0	7.7	7.5	7.6	2.8	2.6	2.8	1.6	1.1	1.4
12	13.8	13.4	13.6	7.5	7.4	7.4	2.7	2.5	2.6	1.7	1.4	1.5
13	13.4	13.0	13.2	7.4	7.3	7.3	2.6	2.5	2.6	2.2	1.7	1.9
14	13.1	12.7	12.9	7.3	7.3	7.3	2.5	2.3	2.4	2.6	2.2	2.4
15	12.7	12.5	12.6	7.4	7.2	7.3	2.4	2.0	2.3	2.6	2.5	2.6
16	12.6	12.1	12.4	7.4	7.3	7.3	2.3	2.2	2.3	2.6	2.3	2.5
17	12.3	12.0	12.1	7.5	7.3	7.4	2.4	2.2	2.3	2.4	2.1	2.3
18	12.0	11.8	11.9	7.6	7.5	7.5	2.3	2.1	2.2	2.2	1.7	1.9
19	11.8	11.5	11.7	7.7	7.6	7.6	2.3	2.3	2.3	1.8	1.5	1.6
20	11.5	11.4	11.5	7.7	7.6	7.7	2.3	2.2	2.2	1.5	1.4	1.4
21	11.4	11.0	11.2	7.7	7.6	7.7	2.2	2.1	2.2	1.4	1.2	1.4
22	11.1	10.8	11.0	7.6	7.6	7.6	2.1	1.9	2.1	1.3	1.2	1.3
23	10.8	10.7	10.8	7.6	7.5	7.6	2.0	1.7	1.8	1.4	1.2	1.3
24	10.7	10.4	10.6	7.5	7.4	7.5	1.7	1.6	1.7	1.3	1.2	1.2
25	10.4	10.0	10.2	7.4	7.2	7.3	1.6	1.5	1.5	1.2	1.1	1.2
26	10.0	9.8	9.9	7.2	6.9	7.1	1.6	1.5	1.6	1.1	1.0	1.1
27	9.8	9.6	9.7	7.0	6.7	6.8	1.7	1.6	1.6	1.2	1.1	1.2
28	9.7	9.6	9.6	6.7	6.5	6.6	1.6	1.4	1.5	1.3	1.2	1.3
29	9.6	9.6	9.6	6.5	6.2	6.4	1.4	1.2	1.3	1.5	1.3	1.4
30	9.6	9.4	9.5	6.2	5.8	6.0	1.2	0.9	1.1	1.6	1.5	1.5
31	9.4	9.2	9.4	---	---	---	1.0	0.6	0.8	1.5	1.3	1.4
MONTH	17.9	9.2	12.9	9.2	5.8	7.8	5.8	0.6	2.7	2.6	0.1	1.2
	FEBRUARY			MARCH			APRIL			MAY		
1	1.3	1.0	1.2	2.5	1.8	2.2	4.7	3.5	4.2	9.5	8.6	9.0
2	1.2	1.0	1.1	2.0	1.6	1.8	5.7	4.6	5.0	9.6	9.0	9.4
3	1.6	1.1	1.3	1.7	1.6	1.7	5.9	5.2	5.4	10.2	9.6	9.9
4	1.7	1.5	1.6	1.7	1.4	1.6	6.1	5.4	5.7	10.0	9.9	10.0
5	1.8	1.5	1.7	1.8	1.6	1.7	6.6	5.7	5.9	10.0	9.8	9.8
6	1.7	1.6	1.6	1.8	1.6	1.7	6.3	6.0	6.1	9.9	9.7	9.8
7	1.7	1.6	1.7	1.7	1.5	1.6	6.5	6.2	6.4	9.7	9.3	9.6
8	1.9	1.7	1.8	1.6	1.4	1.5	7.0	6.3	6.6	9.3	8.3	8.9
9	2.1	1.9	2.0	1.4	1.2	1.4	7.1	6.6	6.8	8.3	7.8	8.1
10	2.3	1.9	2.1	1.4	1.3	1.4	7.1	6.8	7.0	8.3	7.8	8.1
11	2.4	2.3	2.4	1.6	1.4	1.5	7.1	6.9	7.0	8.9	8.1	8.6
12	2.4	2.0	2.3	1.7	1.6	1.6	7.1	7.0	7.0	9.5	8.7	9.1
13	2.3	2.2	2.3	1.7	1.6	1.6	7.4	7.0	7.2	10.1	9.3	9.7
14	2.3	2.2	2.3	2.1	1.7	1.8	7.7	7.4	7.5	10.6	9.8	10.2
15	2.3	2.1	2.3	2.1	2.0	2.0	7.8	7.6	7.7	10.8	10.4	10.6
16	2.3	2.0	2.2	2.0	1.9	1.9	8.1	7.7	7.9	11.0	10.6	10.8
17	2.2	2.1	2.1	2.1	1.7	1.9	7.7	7.1	7.4	11.0	10.7	10.8
18	2.1	1.9	2.0	2.6	2.0	2.3	7.2	6.9	7.1	11.5	11.0	11.3
19	2.2	2.0	2.1	2.8	2.6	2.7	6.9	6.7	6.8	11.5	11.3	11.4
20	2.4	2.2	2.3	3.0	2.8	2.9	7.4	6.7	7.0	11.3	10.4	10.8
21	2.5	2.2	2.4	3.0	2.8	3.0	7.6	7.1	7.4	10.8	10.3	10.5
22	2.7	2.5	2.6	3.0	2.7	2.8	7.9	7.6	7.8	11.2	10.8	11.1
23	2.8	2.7	2.7	2.8	2.6	2.7	8.2	7.9	8.0	11.2	11.0	11.1
24	2.9	2.8	2.9	2.7	2.5	2.7	8.1	7.8	8.0	11.3	9.9	10.7
25	2.9	2.7	2.8	2.7	2.5	2.6	8.1	7.7	7.8	9.9	9.6	9.7
26	2.8	2.6	2.7	3.1	2.5	2.8	8.0	7.6	7.8	10.1	9.6	9.8
27	2.7	2.4	2.6	3.4	3.0	3.2	8.4	7.8	8.0	10.5	10.1	10.2
28	2.7	2.4	2.6	3.7	3.3	3.5	8.1	7.7	7.8	11.2	10.5	10.9
29	---	---	---	3.7	3.3	3.5	8.2	7.6	7.9	11.6	11.1	11.3
30	---	---	---	3.3	3.0	3.1	8.8	8.0	8.4	11.9	11.6	11.7
31	---	---	---	3.6	2.9	3.2	---	---	---	11.9	11.7	11.8
MONTH	2.9	1.0	2.1	3.7	1.2	2.3	8.8	3.5	7.0	11.9	7.8	10.2

