

12396500 PEND OREILLE RIVER BELOW BOX CANYON, NEAR IONE, WA

Pend Oreille Basin
Pend Oreille Subbasin

LOCATION.--Lat 48°46'52", long 117°24'55" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.19, T.38 N., R.43 E., Pend Oreille County, WA, Hydrologic Unit 17010216, on left bank 1,000 ft downstream from Box Canyon Dam, 2.8 mi north of Ione, and at mile 34.3.

AUXILLIARY GAGE: Lat 48°47'35", long 117°25'13", in NW ¼ SE ¼ sec. 18, T. 38 N., R. 43 E., Pend Oreille County, Hydrologic Unit 17010216, on left bank 1.2 mi downstream from base gage near cable.

DRAINAGE AREA.--24,900 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1933: Drainage area. WDR WA-81-2: 1976.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Mar. 29, 1954, nonrecording gage at site 300 ft upstream at same datum. Mar. 29 to Aug. 25, 1954, nonrecording gage at present site and datum. Since Aug. 20, 1967, auxiliary water-stage recorder 1.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair except those below 10,000 ft³/s, which are poor. Flow regulated by Box Canyon Reservoir, 1,000 ft upstream, since June 1955 and by Pend Oreille Lake, Flathead Lake, Hungry Horse Reservoir, and by several smaller reservoirs and powerplants. Numerous diversions upstream from station for irrigation. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1953-2006), 26,270 ft³/s, 19,030,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 136,000 ft³/s June 13, 14, 1972; maximum daily elevation, 2,015.44 ft June 5, 7, 1997 (mean of surge), (backwater from Boundary Dam); minimum daily discharge, 82 ft³/s Oct. 5, 1985 (result of regulation).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1948 reached an elevation of 2,018.00 ft, from floodmarks, discharge, 167,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,400 ft³/s, May 20; maximum elevation, 2,007.75 ft, May 20, (backwater from Boundary Dam); minimum discharge, 2,410 ft³/s, Aug 21 and Sep 10, result of regulation.

12396500 PEND OREILLE RIVER BELOW BOX CANYON, NEAR IONE, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16,800	16,100	16,200	15,000	25,300	26,400	18,900	53,000	65,300	31,500	10,400	7,740
2	17,700	24,000	16,100	16,100	24,800	27,300	18,500	52,600	58,500	31,000	9,580	7,590
3	18,100	27,000	15,400	17,000	22,000	24,800	20,100	52,100	56,300	30,900	8,960	6,990
4	21,500	27,900	14,100	17,600	22,300	24,100	22,900	52,200	56,000	31,500	8,820	7,200
5	23,100	28,800	14,500	17,800	24,000	23,900	26,600	53,200	56,800	31,300	9,680	7,870
6	22,900	28,800	14,900	15,900	24,500	23,900	30,300	53,700	58,900	31,400	8,890	8,110
7	22,100	28,400	15,700	17,300	24,500	24,600	31,300	53,500	59,100	30,700	9,050	8,160
8	21,600	28,800	15,000	16,500	24,600	24,400	32,700	53,900	59,300	26,300	9,230	7,850
9	19,800	28,700	14,200	16,300	23,100	22,000	33,500	55,700	68,900	25,500	9,470	7,310
10	18,900	28,400	13,400	18,200	22,000	21,100	34,500	56,100	72,200	25,800	8,890	7,050
11	19,700	27,800	13,100	22,700	20,500	21,700	38,000	56,200	71,500	26,500	8,650	7,540
12	21,700	28,000	13,200	25,000	20,800	22,400	41,500	54,500	72,300	26,200	6,780	7,990
13	22,000	24,000	13,200	27,200	19,900	22,400	42,500	53,600	68,100	23,500	6,460	6,680
14	20,300	22,500	13,000	26,800	16,000	20,000	42,600	53,300	66,900	21,600	6,690	7,190
15	19,800	17,900	12,100	28,400	14,400	17,300	44,400	53,200	66,800	21,500	6,870	6,290
16	19,500	15,000	12,000	28,800	15,500	17,100	44,500	56,000	62,100	21,300	6,500	5,620
17	19,300	13,600	13,200	28,800	18,000	16,600	49,100	59,200	60,800	21,500	6,870	5,210
18	19,000	12,900	13,000	27,700	20,300	15,600	52,200	63,500	63,200	20,800	7,340	5,810
19	17,400	12,800	13,200	24,200	21,500	15,600	51,500	73,200	76,000	20,600	7,210	5,610
20	16,400	12,700	13,500	23,300	21,500	15,800	48,200	81,900	78,600	20,200	6,630	5,540
21	15,700	16,100	13,500	22,600	19,800	17,000	47,300	84,500	73,700	17,800	7,260	8,320
22	15,900	17,400	14,100	22,800	17,500	18,100	46,200	84,800	67,200	16,900	7,970	11,300
23	15,700	17,800	19,200	22,700	17,300	18,400	46,700	84,500	61,500	16,500	8,630	11,600
24	15,800	18,200	22,700	22,000	17,000	18,600	47,300	82,400	57,700	17,000	8,580	10,200
25	15,400	17,400	17,000	20,100	17,700	19,400	48,000	85,500	51,100	16,500	8,270	10,100
26	15,000	15,300	14,600	19,800	19,600	20,600	49,500	86,800	44,800	15,500	8,270	10,200
27	14,200	13,900	15,100	19,200	20,800	20,600	50,600	87,700	39,200	14,000	7,340	10,300
28	15,000	14,200	17,700	22,700	23,500	20,400	50,900	86,800	33,500	10,900	8,440	10,500
29	15,100	16,100	19,700	23,000	---	20,400	52,000	85,200	31,700	11,900	8,600	9,690
30	14,500	16,500	17,400	23,000	---	19,900	52,900	79,400	31,400	11,200	8,630	9,740
31	14,600	---	16,400	23,200	---	19,400	---	63,900	---	11,000	7,940	---
Total	564,500	617,000	466,400	671,700	578,700	639,800	1,215,200	2,052,100	1,789,400	678,800	252,900	241,300
Mean	18,210	20,570	15,050	21,670	20,670	20,640	40,510	66,200	59,650	21,900	8,158	8,043
Max	23,100	28,800	22,700	28,800	25,300	27,300	52,900	87,700	78,600	31,500	10,400	11,600
Min	14,200	12,700	12,000	15,000	14,400	15,600	18,500	52,100	31,400	10,900	6,460	5,210
Ac-ft	1,120,000	1,224,000	925,100	1,332,000	1,148,000	1,269,000	2,410,000	4,070,000	3,549,000	1,346,000	501,600	478,600

	Calendar Year 2005	Water Year 2006
Total	7,587,740	9,767,800
Mean	20,790	26,760
Max	71,100	87,700
Min	5,220	5,210
Ac-ft	15,050,000	19,370,000

12396500 PEND OREILLE RIVER BELOW BOX CANYON, NEAR IONE, WA—Continued

