

**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.

AUXILIARY 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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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

REVISED RECORDS.--WSP 1933: Drainage area. WSP 2133:1969. 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.--Records fair except for estimated daily discharges and those below 10,000 ft<sup>3</sup>/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.--61 years (water years 1953-2013), 26,320 ft<sup>3</sup>/s, 19,070,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 136,000 ft<sup>3</sup>/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 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76,500 ft<sup>3</sup>/s, May 23; maximum elevation, 2,003.49 ft, May 19 (backwater from Boundary Dam); minimum discharge, 1,740 ft<sup>3</sup>/s, Sept. 9, result of regulation.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14,100	22,300	21,500	18,600	22,500	15,700	19,500	35,800	56,600	39,000	10,200	8,440
2	16,600	24,900	21,200	17,600	20,900	15,500	20,000	35,100	56,900	40,800	10,200	7,980
3	20,000	26,000	22,100	16,900	18,800	15,700	22,000	34,300	57,000	40,500	11,800	8,050
4	20,400	26,800	24,600	15,800	18,600	16,100	26,700	34,500	56,000	37,000	12,700	7,870
5	23,100	26,600	27,600	16,200	17,200	17,000	32,000	34,000	52,300	34,100	12,500	7,290
6	23,100	25,600	30,100	16,100	17,000	19,100	37,800	34,500	50,300	29,600	12,500	7,270
7	22,800	25,700	32,000	16,200	17,400	17,600	41,200	37,100	46,900	28,000	12,300	6,360
8	21,100	25,900	32,800	16,500	17,100	17,100	48,900	39,400	45,300	e26,600	12,400	5,720
9	20,700	22,300	31,400	17,800	16,700	17,700	52,200	45,900	43,700	26,500	12,300	5,840
10	20,000	19,400	30,500	18,500	15,900	18,800	49,800	51,600	44,400	25,500	10,800	7,220
11	19,000	18,700	30,200	18,800	15,600	e18,700	40,800	58,100	48,000	22,700	10,500	7,500
12	18,900	20,600	25,200	18,400	15,800	18,900	39,300	57,700	47,700	21,000	9,880	8,550
13	18,600	19,100	23,000	18,100	15,500	18,900	38,200	59,100	45,100	20,800	10,300	10,100
14	18,400	17,100	22,700	17,900	15,600	18,900	37,900	66,400	43,200	19,500	10,700	12,400
15	18,600	19,300	22,900	17,900	15,800	17,500	36,700	70,300	42,800	18,900	10,500	12,900
16	18,400	19,800	22,600	17,800	15,900	17,400	32,900	71,200	42,200	19,400	10,100	13,500
17	18,800	18,500	24,000	15,000	15,600	17,000	26,400	71,200	41,500	18,400	8,940	13,500
18	19,100	17,900	26,600	14,800	15,700	17,400	29,100	71,900	39,700	17,100	8,590	13,600
19	23,300	18,100	27,100	14,600	16,000	17,800	31,200	72,400	39,100	16,500	7,760	13,500
20	25,000	21,700	25,700	14,400	16,400	19,900	32,100	71,400	40,200	16,200	7,970	15,100
21	25,100	30,200	23,600	15,000	16,300	21,700	32,700	68,300	45,500	15,500	8,080	16,000
22	24,100	32,000	23,100	15,100	16,300	21,600	33,700	62,700	55,300	15,900	8,140	15,400
23	22,400	24,200	21,800	18,300	15,700	21,500	34,400	69,200	58,500	13,900	7,340	15,500
24	22,200	18,400	22,000	20,200	15,700	21,600	34,600	70,400	57,400	13,900	6,150	14,900
25	22,400	16,300	21,700	20,400	15,700	21,300	34,100	68,400	49,600	13,500	5,610	14,700
26	22,400	17,900	22,700	19,400	15,700	21,200	33,500	68,700	46,700	13,600	6,030	12,100
27	21,700	19,200	22,900	19,100	15,800	21,200	32,900	66,800	42,500	13,700	6,910	12,800
28	21,600	22,100	23,000	19,200	16,000	21,000	33,100	61,800	39,300	13,500	8,180	17,100
29	21,400	24,500	21,700	21,500	---	20,600	33,700	59,700	38,200	12,300	9,200	18,700
30	22,200	24,300	19,900	22,500	---	19,600	35,200	55,900	38,700	11,100	8,500	19,300
31	22,900	---	19,500	22,500	---	19,200	---	56,000	---	10,600	8,130	---
<b>Total</b>	648,400	665,400	765,700	551,100	467,200	583,200	1,032,600	1,759,800	1,410,600	665,600	295,210	349,190
<b>Mean</b>	20,920	22,180	24,700	17,780	16,690	18,810	34,420	56,770	47,020	21,470	9,523	11,640
<b>Max</b>	25,100	32,000	32,800	22,500	22,500	21,700	52,200	72,400	58,500	40,800	12,700	19,300
<b>Min</b>	14,100	16,300	19,500	14,400	15,500	15,500	19,500	34,000	38,200	10,600	5,610	5,720
<b>Ac-ft</b>	1,286,000	1,320,000	1,519,000	1,093,000	926,700	1,157,000	2,048,000	3,491,000	2,798,000	1,320,000	585,500	692,600

	Calendar Year 2012	Water Year 2013
<b>Total</b>	11,532,320	9,194,000
<b>Mean</b>	31,510	25,190
<b>Max</b>	90,400	72,400
<b>Min</b>	5,730	5,610
<b>Ac-ft</b>	22,870,000	18,240,000

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