

Water-Data Report 2012

## 12395500 PEND OREILLE RIVER AT NEWPORT, WA

Pend Oreille Basin  
Pend Oreille Subbasin

LOCATION.--Lat 48°10'56", long 117°02'00" referenced to North American Datum of 1927, in SE ¼ SE ¼ SW ¼ sec.24, T.56 N., R.6 W., Bonner County, ID, Hydrologic Unit 17010216, Newport quad., on left bank at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi<sup>2</sup>, approximately.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1903 to September 1912, October 1929 to October 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 532: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above NGVD of 1929. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928 to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935 to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see station 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft<sup>3</sup>/s June 15, 1913, June 21, 1933, June 12, 1972; minimum, 1,280 ft<sup>3</sup>/s Sept. 1, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft, present site and datum, (from water surface profiles) discharge, about 200,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96,500 ft<sup>3</sup>/s June 27, gage height, 46.26 ft; maximum gage height, 46.57 ft, June 28; minimum daily, 6460 ft<sup>3</sup>/s Sept. 09.

## 12395500 PEND OREILLE RIVER AT NEWPORT, WA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22,200	28,300	13,000	13,900	12,600	16,000	29,500	77,800	46,600	80,200	16,300	8,970
2	22,300	28,200	11,100	13,800	12,400	16,100	29,700	78,700	46,800	78,000	16,200	7,460
3	24,800	28,000	10,200	14,400	12,500	16,200	29,600	78,700	46,700	68,900	16,100	6,930
4	26,700	25,900	10,100	14,800	12,700	16,400	29,500	78,100	51,500	63,100	16,000	7,210
5	26,800	25,100	11,500	14,700	12,800	16,300	29,700	76,800	61,900	55,000	14,500	7,340
6	26,800	24,700	12,400	13,700	12,800	16,300	30,800	75,500	69,200	50,100	13,500	7,320
7	27,100	22,400	13,100	13,000	12,600	13,300	31,900	74,000	74,200	50,300	13,600	6,720
8	27,100	18,100	14,600	12,900	12,500	10,300	31,600	72,400	77,600	48,900	14,600	6,470
9	27,300	15,900	16,800	12,800	12,400	10,200	31,000	69,800	77,100	44,900	14,700	6,460
10	27,500	15,900	13,000	12,800	12,400	10,200	30,400	69,100	77,700	40,800	13,500	7,020
11	27,400	14,800	13,300	12,900	12,400	10,200	30,400	68,300	74,800	38,700	12,100	7,440
12	27,000	14,100	9,430	13,000	12,500	10,400	30,300	67,700	69,700	38,600	11,800	7,330
13	27,000	14,000	12,700	12,900	12,600	10,500	30,800	67,000	67,100	38,600	12,800	7,300
14	25,500	15,300	13,800	12,900	12,400	10,400	32,600	66,600	69,200	39,100	13,700	11,200
15	24,200	13,000	13,400	18,100	12,400	10,500	32,500	66,300	71,800	37,100	14,100	13,800
16	24,100	13,800	13,700	25,000	12,400	12,100	34,600	66,500	72,300	32,900	13,200	13,800
17	24,200	13,200	10,500	25,600	12,500	13,400	40,400	67,900	72,900	35,200	12,700	13,800
18	26,000	12,200	8,010	27,300	12,400	13,400	43,800	70,200	81,800	37,200	12,800	11,400
19	27,500	12,600	7,890	22,600	12,500	13,200	43,700	72,100	88,700	37,400	11,400	10,200
20	26,900	13,000	8,010	15,400	12,600	17,200	45,400	72,900	87,900	33,200	11,000	9,710
21	27,600	13,000	7,960	12,500	12,700	18,700	47,500	73,300	86,100	29,000	12,300	9,000
22	25,600	13,100	8,120	12,400	12,600	19,100	48,000	73,000	83,000	25,600	11,500	11,300
23	23,800	15,900	8,040	12,300	12,300	24,800	49,700	74,100	83,700	23,400	10,800	11,200
24	24,000	17,500	8,000	12,300	12,200	29,200	53,700	75,400	84,800	23,200	10,800	9,200
25	24,300	14,500	8,020	12,400	14,400	28,800	57,900	76,800	85,100	23,100	10,800	8,090
26	26,000	13,200	11,200	12,400	15,900	28,400	61,600	75,900	87,100	22,000	10,600	10,600
27	28,200	13,300	13,700	12,400	16,300	28,400	66,000	74,100	92,000	19,700	10,600	12,700
28	28,400	13,100	13,600	12,400	16,300	28,800	70,900	73,000	87,900	17,400	10,700	12,800
29	28,300	13,100	13,500	12,500	16,200	28,700	74,300	67,700	78,600	16,400	10,800	12,800
30	28,200	13,000	13,600	12,600	---	28,700	77,000	58,800	76,300	16,400	10,800	12,800
31	28,300	---	13,700	12,600	---	28,600	---	49,000	---	16,400	10,600	---
<b>Total</b>	811,100	508,200	355,980	459,300	379,300	554,800	1,274,800	2,207,500	2,230,100	1,180,800	394,900	288,370
<b>Mean</b>	26,160	16,940	11,480	14,820	13,080	17,900	42,490	71,210	74,340	38,090	12,740	9,612
<b>Max</b>	28,400	28,300	16,800	27,300	16,300	29,200	77,000	78,700	92,000	80,200	16,300	13,800
<b>Min</b>	22,200	12,200	7,890	12,300	12,200	10,200	29,500	49,000	46,600	16,400	10,600	6,460
<b>Ac-ft</b>	1,609,000	1,008,000	706,100	911,000	752,300	1,100,000	2,529,000	4,379,000	4,423,000	2,342,000	783,300	572,000

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2012, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	18,090	18,220	16,200	15,580	16,320	18,910	27,350	49,520	61,810	31,860	13,950	13,370
<b>Max</b>	31,330	32,280	36,790	40,010	41,290	42,260	56,940	97,850	114,900	73,730	45,210	21,990
<b>(WY)</b>	(1960)	(1960)	(1996)	(1934)	(1996)	(1996)	(1956)	(1997)	(1933)	(1907)	(1907)	(1907)
<b>Min</b>	6,208	6,049	5,987	4,271	4,380	6,622	5,507	15,320	15,220	7,295	5,875	6,353
<b>(WY)</b>	(1932)	(1937)	(1937)	(1937)	(1936)	(1937)	(1977)	(1977)	(1977)	(1977)	(1988)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1903 - 2012	
<b>Annual total</b>	13,473,280		10,645,150			
<b>Annual mean</b>	36,910		29,090		25,050	
<b>Highest annual mean</b>					38,600	1997
<b>Lowest annual mean</b>					12,920	1941
<b>Highest daily mean</b>	121,000	Jun 17	92,000	Jun 27	135,000	Jun 19, 1933
<b>Lowest daily mean</b>	7,890	Dec 19	6,460	Sep 9	2,420	Sep 19, 1962
<b>Annual seven-day minimum</b>	8,000	Dec 18	6,920	Sep 3	3,280	Aug 28, 1962
<b>Annual runoff (ac-ft)</b>	26,720,000		21,110,000		18,150,000	
<b>10 percent exceeds</b>	99,000		73,000		52,200	
<b>50 percent exceeds</b>	24,700		16,300		18,700	
<b>90 percent exceeds</b>	13,100		10,500		8,780	

