

Water-Data Report 2009

## 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.--Records good except for estimated daily discharges, which are poor. 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, 75,800 ft<sup>3</sup>/s June 3, gage height, 43.77 ft; maximum gage height, 43.78 ft, June 4; minimum daily, 5,990 ft<sup>3</sup>/s Sept. 7.

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22,500	22,200	13,300	e20,800	12,100	e15,000	e15,500	30,200	e74,000	29,500	17,000	10,700
2	26,100	22,100	12,700	e21,200	12,800	e15,500	e15,500	30,300	74,700	28,400	17,700	12,600
3	27,600	19,300	12,300	e21,400	13,800	e16,000	13,500	30,200	75,000	28,400	15,000	15,100
4	27,600	17,100	12,700	e21,400	13,800	e16,000	11,900	30,900	73,000	28,500	12,500	11,700
5	27,600	17,200	14,000	e20,000	15,100	e17,000	12,100	31,300	71,100	28,600	11,500	7,980
6	27,700	17,600	15,700	e20,000	16,000	e17,000	14,000	31,500	71,100	29,800	10,500	6,540
7	27,600	16,000	15,900	e22,000	16,100	e17,000	16,100	33,500	68,800	30,900	9,220	5,990
8	27,800	12,600	16,100	e23,000	16,200	e17,500	15,900	36,900	62,800	29,900	8,840	6,240
9	27,400	11,400	16,200	e21,200	16,100	e18,000	9,710	37,100	60,400	24,600	10,000	7,110
10	27,500	9,140	16,100	19,700	16,000	e18,000	9,620	37,100	56,100	20,000	12,100	9,200
11	27,600	8,060	17,300	18,700	e15,000	e18,000	13,200	39,600	47,400	18,900	13,400	10,100
12	27,600	9,820	17,400	18,500	e13,500	e17,000	13,200	41,600	41,200	19,700	14,600	10,300
13	27,600	14,700	17,900	17,700	e12,000	e16,000	16,400	41,700	40,800	20,300	15,000	12,800
14	27,600	20,900	18,200	17,500	e11,000	e14,000	21,200	41,700	42,300	21,500	13,900	15,200
15	27,600	18,500	16,100	16,300	e11,000	e13,000	23,300	41,100	45,500	23,000	13,200	15,000
16	27,800	16,700	12,900	15,700	e11,000	e13,000	25,000	41,500	49,000	23,400	13,200	14,800
17	28,200	16,700	e11,400	16,100	e12,000	e13,000	25,300	41,100	49,100	21,700	13,300	14,900
18	28,100	16,500	e12,000	16,400	e13,500	e13,500	27,700	40,800	48,900	19,900	13,300	15,000
19	28,200	16,400	e14,400	16,400	e15,000	e13,000	29,400	41,000	50,900	19,700	12,500	14,700
20	28,300	15,800	e16,000	15,400	e15,000	e13,000	30,600	e46,000	52,200	19,200	11,900	14,700
21	28,600	14,600	e15,800	14,900	e15,500	e13,000	31,200	e55,000	52,300	18,700	12,100	14,700
22	28,200	14,000	e13,600	14,800	e15,500	e13,000	30,800	e62,000	50,000	17,600	11,600	14,900
23	28,100	14,000	e13,000	14,800	e17,000	e14,000	28,600	e65,000	46,000	17,000	10,400	15,100
24	28,400	14,200	e13,000	14,800	e19,500	e15,000	27,400	e65,000	41,900	16,100	9,510	15,100
25	28,400	14,200	e13,200	14,600	e20,000	e15,500	28,900	e65,000	40,100	15,100	7,860	15,000
26	28,300	14,200	e13,800	14,700	e18,000	e17,000	30,200	e65,000	39,700	15,000	9,130	14,900
27	26,600	14,200	e14,000	14,900	e16,500	e20,000	32,600	e67,000	39,200	15,000	10,100	15,000
28	22,300	13,200	e15,400	14,900	e15,500	e21,500	36,700	e68,000	38,100	15,200	9,860	15,100
29	22,200	12,900	e18,000	13,400	---	e21,000	36,400	e70,000	36,200	15,800	9,830	15,300
30	22,100	13,400	e19,000	11,700	---	e21,000	33,300	e70,000	32,800	16,200	9,750	15,500
31	22,100	---	e19,800	11,800	---	e21,000	---	e70,000	---	16,100	9,730	---
<b>Total</b>	833,300	457,620	467,200	534,700	414,500	502,500	675,230	1,467,100	1,570,600	663,700	368,530	381,260
<b>Mean</b>	26,880	15,250	15,070	17,250	14,800	16,210	22,510	47,330	52,350	21,410	11,890	12,710
<b>Max</b>	28,600	22,200	19,800	23,000	20,000	21,500	36,700	70,000	75,000	30,900	17,700	15,500
<b>Min</b>	22,100	8,060	11,400	11,700	11,000	13,000	9,620	30,200	32,800	15,000	7,860	5,990
<b>Ac-ft</b>	1,653,000	907,700	926,700	1,061,000	822,200	996,700	1,339,000	2,910,000	3,115,000	1,316,000	731,000	756,200

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	17,880	18,300	16,300	15,540	16,300	18,970	27,240	49,360	61,030	31,340	13,910	13,350
<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 2008		Water Year 2009		Water Years 1903 - 2009	
<b>Annual total</b>	9,775,930		8,336,240			
<b>Annual mean</b>	26,710		22,840		24,910	
<b>Highest annual mean</b>					38,600	1997
<b>Lowest annual mean</b>					12,920	1941
<b>Highest daily mean</b>	96,300	Jun 4	75,000	Jun 3	135,000	Jun 19, 1933
<b>Lowest daily mean</b>	8,060	Nov 11	5,990	Sep 7	2,420	Sep 19, 1962
<b>Annual seven-day minimum</b>	10,700	Feb 13	7,590	Sep 5	3,280	Aug 28, 1962
<b>Annual runoff (ac-ft)</b>	19,390,000		16,530,000		18,050,000	
<b>10 percent exceeds</b>	67,400		41,600		51,700	
<b>50 percent exceeds</b>	16,200		16,700		18,700	
<b>90 percent exceeds</b>	11,900		11,800		8,700	

