

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., (Boise Meridian), 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 mi², 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. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 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 ft³/s June 15, 1933, June 21, 1933, June 12, 1972; minimum, 1,280 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92,900 ft³/s May 26, gage height, 45.69 ft; minimum daily, 4,290 ft³/s Sept. 16.

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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	17,700	20,200	15,000	14,000	24,000	26,800	16,800	49,500	62,200	29,700	9,520	7,450
2	18,000	26,500	14,400	15,000	21,500	24,300	17,200	49,600	56,800	29,800	8,610	7,430
3	19,800	28,000	13,900	15,700	20,000	22,400	19,300	49,500	56,400	29,900	8,760	7,320
4	23,300	28,600	13,700	16,700	21,900	21,800	22,600	50,300	57,200	30,400	8,810	7,670
5	23,300	28,800	14,400	15,200	23,000	22,200	26,700	51,100	58,500	30,300	8,800	8,060
6	22,200	28,900	15,400	13,900	23,500	22,300	28,800	51,200	59,500	30,300	8,920	7,960
7	21,700	28,800	14,800	14,200	23,900	22,400	29,600	51,300	59,700	26,800	9,010	8,080
8	20,500	29,000	14,000	14,600	22,100	19,900	31,000	53,400	62,800	23,400	8,950	7,960
9	19,000	28,700	13,200	15,600	21,000	18,600	31,600	55,100	68,200	24,200	9,170	7,990
10	18,900	28,200	13,000	18,100	19,600	20,100	34,200	54,500	71,500	25,100	9,020	7,880
11	20,800	28,200	12,300	22,500	19,500	20,500	39,000	52,900	71,500	25,400	7,800	7,950
12	22,300	25,900	12,400	25,300	19,900	20,400	41,300	51,200	69,900	23,100	6,890	7,550
13	20,800	23,200	13,000	25,400	15,700	18,900	41,200	51,200	68,200	20,900	6,940	6,880
14	19,300	19,100	12,100	25,600	13,800	16,600	41,300	51,100	67,900	20,500	7,240	5,750
15	19,400	14,200	11,400	27,100	14,300	15,700	41,300	53,600	65,500	20,500	7,310	4,430
16	19,100	12,500	12,300	27,200	15,800	15,200	44,900	57,400	62,800	20,500	7,400	4,290
17	19,000	11,700	13,000	26,600	19,300	14,600	50,600	61,100	62,600	19,900	7,280	4,390
18	17,700	12,100	13,200	23,300	20,700	14,500	50,200	66,600	66,600	19,600	7,440	4,490
19	16,400	12,600	13,000	20,900	20,500	14,400	47,000	72,400	75,300	19,600	7,570	4,470
20	15,500	14,700	13,000	20,500	19,100	14,900	45,000	76,700	79,500	17,600	7,450	6,050
21	15,600	16,600	12,800	21,500	17,100	16,200	45,000	81,200	75,300	15,700	8,400	9,190
22	15,700	17,200	13,700	21,400	16,200	16,800	45,300	84,300	64,200	15,800	8,920	10,500
23	15,700	17,300	21,900	21,000	16,200	16,700	45,300	86,800	58,300	15,700	9,020	9,480
24	15,600	17,300	17,500	19,400	16,000	17,200	45,200	88,700	52,600	15,700	8,810	9,020
25	14,900	15,300	12,800	18,300	18,400	18,300	47,000	89,500	47,600	15,600	8,090	8,360
26	14,200	13,600	12,600	17,800	18,700	18,600	48,400	90,000	40,700	13,700	7,840	8,860
27	14,200	13,500	13,200	20,300	19,800	18,500	49,100	90,100	33,000	10,500	8,220	9,230
28	14,300	14,700	18,400	22,200	23,700	18,600	49,500	89,200	30,300	9,730	8,580	9,240
29	14,300	15,800	17,400	22,200	---	17,900	49,600	88,600	30,500	10,200	8,740	9,210
30	14,300	15,800	14,900	22,100	---	17,500	49,700	81,300	30,100	10,800	7,920	8,940
31	14,200	---	13,600	23,600	---	17,000	---	71,200	---	11,000	7,420	---
Total	557,700	607,000	436,300	627,200	545,200	579,800	1,173,700	2,050,600	1,765,200	631,930	254,850	226,080
Mean	17,990	20,230	14,070	20,230	19,470	18,700	39,120	66,150	58,840	20,380	8,221	7,536
Max	23,300	29,000	21,900	27,200	24,000	26,800	50,600	90,100	79,500	30,400	9,520	10,500
Min	14,200	11,700	11,400	13,900	13,800	14,400	16,800	49,500	30,100	9,730	6,890	4,290
Ac-ft	1,106,000	1,204,000	865,400	1,244,000	1,081,000	1,150,000	2,328,000	4,067,000	3,501,000	1,253,000	505,500	448,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17,690	18,350	16,280	15,540	16,380	18,960	27,380	49,360	61,190	31,590	13,990	13,360
Max	31,330	32,280	36,790	40,010	41,290	42,260	56,940	97,850	114,900	73,730	45,210	21,990
(WY)	(1960)	(1960)	(1996)	(1934)	(1996)	(1996)	(1956)	(1997)	(1933)	(1907)	(1907)	(1907)
Min	6,208	6,049	5,987	4,271	4,380	6,622	5,507	15,320	15,220	7,295	5,875	6,353
(WY)	(1932)	(1937)	(1937)	(1937)	(1936)	(1937)	(1977)	(1977)	(1977)	(1977)	(1988)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1903 - 2006	
Annual total	7,356,630		9,455,560			
Annual mean	20,160		25,910		24,950	
Highest annual mean					38,600	1997
Lowest annual mean					12,920	1941
Highest daily mean	71,100	Jun 9	90,100	May 27	135,000	Jun 19, 1933
Lowest daily mean	4,620	Sep 11	4,290	Sep 16	2,420	Sep 19, 1962
Annual seven-day minimum	6,260	Sep 8	4,840	Sep 14	3,280	Aug 28, 1962
Annual runoff (ac-ft)	14,590,000		18,760,000		18,080,000	
10 percent exceeds	36,600		57,300		52,000	
50 percent exceeds	15,700		19,100		18,700	
90 percent exceeds	10,900		8,380		8,640	

