

## PEND OREILLE RIVER BASIN

## 12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'56", long 117°02'00", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Unit 17010216, 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.

PERIOD OF RECORD.--June 1903 to September 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 ft<sup>3</sup>/s June 15, 1933, 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 daily discharge, 95,400 ft<sup>3</sup>/s June 9; maximum gage height, 46.75 ft, June 9; minimum daily, 7,670 ft<sup>3</sup>/s Dec. 13.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15800	19000	8810	10200	17000	13200	14800	31100	78700	79700	16100	9150
2	15700	18900	8020	10000	17600	13300	14500	31300	82000	72700	15300	9390
3	15900	18800	9040	10200	17100	13300	14800	31500	85800	62500	14000	10100
4	15800	19100	9460	9360	17400	13800	14600	31500	88700	54800	12800	10900
5	15900	18800	10200	10600	17700	14700	14700	31500	90900	49000	12700	10700
6	16100	19200	11000	11500	17500	14800	14700	35800	92800	40200	12700	12000
7	16100	20800	10800	12300	17300	14700	14600	39600	94300	42800	12700	12900
8	16000	22700	9340	16600	19100	14700	14600	39600	95100	44300	17100	12900
9	19200	21700	8240	23600	20300	14700	15000	39800	95400	44900	19300	12200
10	19500	21800	9020	26500	20200	15300	18900	37000	94700	40700	16300	12100
11	19700	21700	9580	25700	18300	16400	22100	31500	94100	35200	16300	12200
12	19500	16400	8680	22300	15000	17900	25400	31000	93200	34600	16400	12200
13	19400	11800	7670	22400	14000	17500	28400	29500	92200	35400	16300	12400
14	19400	12200	8890	19100	15400	17900	30100	28400	89800	35900	16500	12800
15	19600	13200	11100	16900	16100	21300	34700	29400	88700	37100	16300	12800
16	19500	16200	13600	19400	15900	23100	36200	31900	88500	34600	15300	13600
17	19700	17800	14700	19300	15000	22500	36600	32100	86000	32400	14500	14100
18	19700	14300	15700	17800	14600	23100	36900	32300	83700	34200	14100	14100
19	19700	9660	17400	16600	16900	22300	35800	32300	78100	35600	13900	13600
20	20000	8550	17600	15800	17100	20700	34400	37800	69400	29600	12900	14200
21	19900	8040	15100	15400	14100	17500	33800	47600	67000	25400	12500	14000
22	19900	8290	13200	16800	13200	14200	36000	57100	66900	24000	12200	13800
23	19700	9420	13000	17700	13200	13300	38400	68100	66000	22200	11800	13600
24	19700	9870	13000	17400	13100	14100	38100	74800	66300	22100	12000	13500
25	19200	9800	13000	16000	13700	18300	36500	74500	72200	22300	13400	13500
26	18600	9800	12900	14600	14700	21300	33500	69600	78000	21300	13800	13000
27	18400	11400	12900	14600	14700	21500	31200	64600	77100	20800	13800	11700
28	18600	12400	14600	16400	14600	19900	31100	65600	77200	20700	13900	10800
29	19200	12400	15500	17900	---	18000	31000	69500	79500	20800	14200	10400
30	19000	10500	13800	17700	---	17200	31000	73900	81500	18200	13200	10200
31	19000	---	11600	17300	---	16700	---	75700	---	16800	10800	---
TOTAL	573400	444530	367450	517960	452400	537200	812400	1405900	2493800	1110800	443100	368840
MEAN	18500	14820	11850	16710	16160	17330	27080	45350	83130	35830	14290	12290
MAX	20000	22700	17600	26500	20300	23100	38400	75700	95400	79700	19300	14200
MIN	15700	8040	7670	9360	13100	13200	14500	28400	66000	16800	10800	9150
AC-FT	1137000	881700	728800	1027000	897300	1066000	1611000	2789000	4946000	2203000	878900	731600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)												
MEAN	17650	18400	16300	15580	16400	19070	27360	49620	62020	32230	14180	13480
MAX	31330	32280	36790	40010	41290	42260	56940	97850	114900	73730	45210	21990
(WY)	1960	1960	1996	1934	1996	1996	1956	1997	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	4888340		9527780			
ANNUAL MEAN	13390		26100		25140	
HIGHEST ANNUAL MEAN					38600	
LOWEST ANNUAL MEAN					12920	
HIGHEST DAILY MEAN	29500		May 3		135000	
LOWEST DAILY MEAN	5680		Mar 5		2420	
ANNUAL SEVEN-DAY MINIMUM	5990		Mar 3		3280	
ANNUAL RUNOFF (AC-FT)	9696000		18900000		18210000	
10 PERCENT EXCEEDS	22900		66900		52700	
50 PERCENT EXCEEDS	10700		17500		18900	
90 PERCENT EXCEEDS	6310		11000		8610	