

PEND OREILLE RIVER BASIN

12396900 SULLIVAN CREEK ABOVE OUTLET CREEK, NEAR METALINE FALLS, WA

LOCATION.--Lat 48°50'44", long 117°17'08", in SW 1/4 SE 1/4 sec.30, T.39 N., R.44 E., Pend Oreille County, Hydrologic Unit 17010216, Colville National Forest, on left bank, at upstream side of road bridge, 0.1 mi upstream from Outlet Creek, 4 mi southeast of Metaline Falls, and at mile 5.0.

DRAINAGE AREA.--70.2 mi².

PERIOD OF RECORD.--January 1959 to September 1972, April 1994 to current year.

REVISED RECORD.--WDR-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,550.2 ft above NGVD of 1929. Dec. 20, 1968, to September 1972, water-stage recorder 50 ft downstream at datum of 2,540.09 ft (revised to 2,556.75 ft Oct. 1, 1969) NGVD of 1929. Jan. 6, 1966, to Dec. 20, 1968, water-stage recorder 200 ft downstream at datum of 2,541.20 ft NGVD of 1929. Prior to Jan. 6, 1966, water-stage recorder 50 ft downstream at datum 2,540.09 ft NGVD of 1929.

REMARKS.--Records fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--21 years (water years 1960-72, 1995-2002), 124 ft³/s, 23.91 in/yr, 89,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s June 1, 1997, May 25, 1999, maximum gage height, 5.57 ft June 1, 1997; minimum discharge, 6.5 ft³/s Feb. 23, 24, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	1300	831	4.36	May 29	1715	*1,160	*4.70

Minimum daily discharge, 16 ft³/s Dec. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	27	31	e18	e35	e36	56	235	921	143	49	33
2	19	25	31	e22	35	e34	56	271	870	129	48	31
3	18	25	30	e25	34	e38	56	305	830	117	47	34
4	18	25	30	e26	33	e39	57	298	804	108	46	33
5	18	25	30	26	33	e39	60	281	798	99	45	33
6	18	25	29	26	32	e37	69	260	759	91	45	35
7	18	24	29	41	33	e36	72	239	640	84	44	35
8	19	23	29	93	34	e34	73	222	568	120	43	34
9	20	24	29	64	e33	e37	75	209	504	106	42	34
10	20	23	27	52	e33	e42	85	199	463	93	42	33
11	22	22	29	47	34	e42	92	193	463	95	42	32
12	22	22	26	46	29	e43	124	196	473	104	41	32
13	22	22	29	44	35	e40	176	221	501	99	41	32
14	24	35	30	42	33	e39	339	277	535	94	40	32
15	22	44	27	34	33	e40	318	283	542	90	40	32
16	21	57	30	e32	35	e41	262	280	530	85	39	32
17	21	50	33	e36	36	e39	228	295	480	82	39	35
18	21	42	28	e35	35	e38	203	320	460	78	38	38
19	21	39	30	41	35	e41	187	392	428	75	38	35
20	21	39	28	43	35	e41	179	659	365	72	37	35
21	21	39	28	44	35	e35	183	746	325	69	38	34
22	23	39	28	40	46	e43	195	806	302	67	37	34
23	25	38	22	39	53	e43	189	709	286	64	37	32
24	23	36	28	39	e44	e45	181	584	259	65	36	31
25	22	34	e20	39	e24	e46	176	530	232	62	36	31
26	22	33	e16	37	e31	e49	173	534	212	60	35	30
27	24	32	e18	35	e36	e49	169	634	197	58	36	31
28	26	32	e22	31	e37	51	167	909	179	56	35	31
29	23	32	e27	e28	---	51	173	1130	189	54	37	30
30	23	31	e25	e32	---	52	198	1080	162	52	37	35
31	32	---	e22	e35	---	53	---	998	---	51	35	---
TOTAL	668	964	841	1192	981	1293	4571	14295	14277	2622	1245	989
MEAN	21.55	32.13	27.13	38.45	35.04	41.71	152.4	461.1	475.9	84.58	40.16	32.97
MAX	32	57	33	93	53	53	339	1130	921	143	49	38
MIN	18	22	16	18	24	34	56	193	162	51	35	30
AC-FT	1320	1910	1670	2360	1950	2560	9070	28350	28320	5200	2470	1960
CFSM	0.31	0.46	0.39	0.55	0.50	0.59	2.17	6.57	6.78	1.20	0.57	0.47
IN.	0.35	0.51	0.45	0.63	0.52	0.69	2.42	7.58	7.57	1.39	0.66	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

	MEAN	38.56	42.78	38.18	32.24	33.48	47.01	130.4	483.4	422.4	109.1	48.44	38.61
MAX	95.7	79.3	100	57.8	68.4	95.3	243	785	663	235	68.8	84.7	
(WY)	1960	1998	1996	1960	1996	1972	1969	1997	1967	1999	1999	1997	
MIN	21.5	21.7	20.3	17.4	16.4	16.5	41.4	211	133	59.2	34.2	24.1	
(WY)	2002	1995	1995	1962	1962	1962	2001	2001	2001	2001	1994	2001	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1959 - 2002
ANNUAL TOTAL	19875	43938	
ANNUAL MEAN	54.45	120.4	123.6
HIGHEST ANNUAL MEAN			179
LOWEST ANNUAL MEAN			54.5
HIGHEST DAILY MEAN	445	May 25	1450
LOWEST DAILY MEAN	16	Jan 28	10
ANNUAL SEVEN-DAY MINIMUM	16	Feb 4	13
ANNUAL RUNOFF (AC-FT)	39420	87150	89510
ANNUAL RUNOFF (CFSM)	0.78	1.71	1.76
ANNUAL RUNOFF (INCHES)	10.53	23.28	23.91
10 PERCENT EXCEEDS	134	319	358
50 PERCENT EXCEEDS	28	39	44
90 PERCENT EXCEEDS	19	23	25

e Estimated