

Water-Data Report 2008

12434110 WEST FORK SANPOIL RIVER NEAR REPUBLIC, WA

Upper Columbia Basin
Sanpoil Subbasin

LOCATION.--Lat 48°27'32", long 118°45'02" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.11, T.34 N., R.32 E., Ferry County, WA, Hydrologic Unit 17020004, on left bank, mounted to upstream wingwall of SR 21 bridge, 2.0 miles south of Sanpoil River abv 13 Mile Creek gage, 14.5 miles south of Republic city limits, and .5 miles upstream from mouth.

DRAINAGE AREA.--308 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1972 to April 1974, November 2005 to current year. Miscellaneous measurements 1970, 1977, 2001.

GAGE.--Water-stage recorder and crest-stage gage. Elevation is 1,930 ft above NGVD of 1929, from topographic map. July 1972 to April 1974 water-stage recorder at same location.

REMARKS.--Records good, except for estimated daily discharges which are fair. No known regulation. Several diversions above station for irrigation.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--4 years (1973 and 2006-2008) 63 ft³/s, 45,630 acre-ft/year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s, April 30, 2006, gage hight, 4.90 ft; minimum discharge, 0.57 ft³/s (measured), August 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 352 ft³/s, May 17, gage height, 2.79 ft; minimum discharge, 4.9 ft³/s, Aug. 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	11	e10	e12	e12	22	22	151	83	21	7.4	6.0
2	9.6	11	e10	e12	e12	20	22	155	97	20	7.4	6.0
3	9.7	11	e16	e12	e13	19	23	174	e98	23	7.2	6.0
4	9.1	12	e30	e12	e14	18	24	200	100	23	7.2	5.9
5	8.9	12	27	e13	e14	18	28	248	103	21	7.0	5.9
6	8.7	12	22	e14	e13	19	28	295	98	19	6.7	5.9
7	8.6	12	e20	e14	e14	20	30	316	92	18	6.5	5.8
8	8.6	13	e18	e14	e15	21	31	316	81	17	6.4	5.7
9	8.5	13	e17	e14	e15	23	32	281	74	15	6.5	5.6
10	8.7	16	e16	e14	e15	28	31	261	81	13	6.5	5.5
11	8.7	15	e14	e13	e14	34	32	264	87	13	6.7	5.4
12	8.9	19	e14	e13	e14	38	37	257	77	12	6.7	5.4
13	9.0	21	e14	e13	e13	38	53	253	68	12	6.3	5.3
14	9.1	17	e14	e13	e12	34	89	258	61	11	6.0	5.3
15	9.2	15	e14	e12	e12	31	97	275	56	10	5.8	5.3
16	10	18	e13	e10	e12	31	89	311	52	9.8	5.6	5.3
17	10	18	e13	e12	e12	30	92	334	48	9.7	5.4	5.1
18	11	18	e13	e12	e11	30	103	316	45	9.4	5.3	5.1
19	15	18	e13	e12	e11	30	98	269	43	9.0	5.4	5.1
20	14	e15	e14	e12	e12	29	90	235	40	8.6	8.1	5.3
21	13	e12	e13	e11	e12	29	85	213	38	8.3	9.7	6.3
22	14	e11	e12	e12	e13	28	80	182	37	8.0	8.3	6.4
23	13	e10	e12	e11	13	29	82	164	35	8.1	7.6	6.5
24	12	e9.7	e12	e10	12	29	82	151	33	14	7.3	6.4
25	12	e9.3	e12	e10	13	27	81	137	31	13	7.1	6.4
26	12	e9.8	e12	e10	14	27	80	127	29	10	6.9	6.3
27	12	e9.8	e12	e12	15	27	90	116	27	9.0	6.8	6.0
28	11	e9.8	e12	e11	17	25	111	105	25	8.5	6.7	6.0
29	12	e9.6	e12	e12	19	25	154	98	24	8.2	6.5	6.0
30	12	e9.8	e12	e12	---	24	161	90	23	7.9	6.2	6.0
31	12	---	e10	e12	---	23	---	83	---	7.7	6.1	---
Total	332.3	397.8	453	376	388	826	2,057	6,635	1,786	397.2	209.3	173.2
Mean	10.7	13.3	14.6	12.1	13.4	26.6	68.6	214	59.5	12.8	6.75	5.77
Max	15	21	30	14	19	38	161	334	103	23	9.7	6.5
Min	8.5	9.3	10	10	11	18	22	83	23	7.7	5.3	5.1
Ac-ft	659	789	899	746	770	1,640	4,080	13,160	3,540	788	415	344
Cfsm	0.03	0.04	0.05	0.04	0.04	0.09	0.22	0.69	0.19	0.04	0.02	0.02
In.	0.04	0.05	0.05	0.05	0.05	0.10	0.25	0.80	0.22	0.05	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12.1	22.0	38.8	60.2	50.2	101	268	223	71.6	18.0	9.02	8.67
Max	14.3	45.7	131	224	154	216	639	446	154	37.2	15.8	13.8
(WY)	(1973)	(1974)	(1974)	(1974)	(1974)	(1974)	(2006)	(2006)	(2006)	(2006)	(1972)	(1972)
Min	10.7	9.63	8.72	12.1	13.4	26.6	68.6	102	31.7	8.71	3.63	5.77
(WY)	(2008)	(2006)	(2006)	(2008)	(2008)	(2008)	(2008)	(1973)	(1973)	(1973)	(1973)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1972 - 2008	
Annual total	19,330.6		14,030.8			
Annual mean	53.0		38.3		63.0	
Highest annual mean					123	2006
Lowest annual mean					35.8	1973
Highest daily mean	362	Apr 9	334	May 17	1,190	Apr 30, 2006
Lowest daily mean	5.3	Sep 6	5.1	Sep 17	3.2	Aug 16, 1973
Annual seven-day minimum	5.4	Sep 1	5.2	Sep 13	3.3	Aug 18, 1973
Annual runoff (ac-ft)	38,340		27,830		45,630	
Annual runoff (cfsm)	0.172		0.124		0.205	
Annual runoff (inches)	2.33		1.69		2.78	
10 percent exceeds	203		98		167	
50 percent exceeds	17		13		18	
90 percent exceeds	6.1		6.4		6.0	

