

Water-Data Report 2011

12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA

Spokane Basin
Lower Spokane Subbasin

LOCATION.--Lat 47°55'28", long 118°05'18" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.13, T.28 N., R.37 E., Stevens County, WA, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--6.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--25 years (water years 1985-98, 2001-2011), 1.24 ft³/s, 2.81 in/yr, 900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65 ft³/s, Mar. 22, 1997, gage height, 3.22 ft; minimum discharge, 0.01 ft³/s, Aug. 12, 13, 1992, gage height, 0.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s, part of each day Mar. 20-22, gage height, 2.20 ft; minimum discharge, 0.08 ft³/s, Aug. 22, but could have been lower during ice period.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.19	0.29	e0.19	e0.15	1.3	1.3	16	6.1	5.6	1.3	0.34	0.20
2	0.19	0.26	e0.18	e0.20	1.3	2.0	15	6.2	5.4	1.2	0.34	0.18
3	0.19	0.21	e0.17	e0.25	1.3	1.9	14	6.3	5.3	1.1	0.32	0.18
4	0.20	0.19	e0.15	e0.25	1.4	1.9	13	6.2	5.3	1.1	0.30	0.17
5	0.16	0.19	e0.14	e0.25	1.7	2.0	12	6.1	5.0	0.99	0.29	0.17
6	0.16	0.19	e0.14	e0.28	1.7	2.0	11	6.0	4.7	0.96	0.28	0.15
7	0.18	0.36	e0.14	e0.38	1.7	2.0	11	6.3	4.6	0.90	0.27	0.15
8	0.22	0.24	e0.15	e0.38	1.6	2.1	9.8	5.9	4.4	0.80	0.25	0.17
9	0.20	0.23	0.17	e0.30	1.6	2.2	9.1	5.7	4.2	0.78	0.24	0.17
10	0.26	0.21	0.20	e0.28	1.6	3.0	8.5	5.4	4.0	0.73	0.22	0.17
11	0.21	0.19	0.17	e0.28	1.6	3.1	8.0	5.2	3.9	0.66	0.19	0.16
12	0.19	0.19	0.27	e0.34	1.7	3.2	7.5	4.9	3.7	0.65	0.18	0.16
13	0.18	0.22	0.30	e0.40	1.6	4.0	7.2	4.7	3.5	0.67	0.20	0.15
14	0.17	0.21	0.62	e0.50	1.7	6.7	6.8	4.5	3.3	0.64	0.20	0.15
15	0.19	0.19	e0.30	e0.50	1.9	8.9	6.6	4.3	3.1	0.60	0.20	0.16
16	0.20	0.35	e0.28	e0.60	1.9	12	6.4	5.4	3.0	0.60	0.20	0.15
17	0.22	0.23	e0.24	e0.80	1.9	15	5.9	5.2	2.9	0.63	0.20	0.14
18	0.21	0.26	e0.22	e0.90	1.9	19	5.6	4.7	2.8	0.58	0.20	0.16
19	0.22	0.22	e0.22	e0.90	2.0	20	5.3	4.7	2.7	0.56	0.20	0.15
20	0.21	e0.20	e0.22	e0.90	2.1	19	5.0	4.7	2.6	0.54	0.20	0.14
21	0.22	e0.20	e0.20	e0.88	2.1	20	4.8	4.9	2.4	0.54	0.18	0.17
22	0.21	e0.20	e0.20	e0.82	2.1	19	4.5	4.9	2.2	0.51	0.17	0.17
23	0.28	e0.20	e0.20	e0.80	2.1	18	4.3	4.8	2.1	0.48	0.17	0.17
24	0.39	e0.18	e0.20	e0.86	2.1	18	4.1	4.7	2.0	0.48	0.17	0.16
25	0.29	e0.19	e0.20	e0.90	2.3	17	4.1	4.7	1.9	0.47	0.16	0.17
26	0.25	e0.19	e0.20	e0.86	2.1	16	6.5	6.0	1.7	0.45	0.20	0.17
27	0.23	e0.20	e0.22	e0.80	2.1	18	6.2	5.4	1.7	0.44	0.18	0.22
28	0.24	e0.19	e0.22	0.87	2.0	17	5.9	5.4	1.6	0.47	0.18	0.17
29	0.42	e0.19	e0.20	0.91	---	17	5.8	5.5	1.5	0.45	0.18	0.17
30	0.28	e0.19	e0.18	1.1	---	17	6.0	5.6	1.4	0.38	0.17	0.17
31	0.33	---	e0.13	1.2	---	16	---	5.6	---	0.38	0.20	---
Total	7.09	6.56	6.62	18.84	50.4	324.3	235.9	166.0	98.5	21.04	6.78	4.97
Mean	0.23	0.22	0.21	0.61	1.80	10.5	7.86	5.35	3.28	0.68	0.22	0.17
Max	0.42	0.36	0.62	1.2	2.3	20	16	6.3	5.6	1.3	0.34	0.22
Min	0.16	0.18	0.13	0.15	1.3	1.3	4.1	4.3	1.4	0.38	0.16	0.14
Ac-ft	14	13	13	37	100	643	468	329	195	42	13	9.9
Cfsm	0.04	0.04	0.04	0.10	0.30	1.74	1.31	0.89	0.55	0.11	0.04	0.03
In.	0.04	0.04	0.04	0.12	0.31	2.01	1.46	1.03	0.61	0.13	0.04	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.16	0.20	0.21	0.85	1.60	4.93	4.18	1.58	0.92	0.39	0.20	0.14
Max	0.25	0.37	0.47	6.79	12.4	25.7	14.1	5.35	3.28	1.09	0.36	0.24
(WY)	(1998)	(1985)	(1997)	(2006)	(1995)	(1997)	(1997)	(2011)	(2011)	(2010)	(1984)	(1984)
Min	0.07	0.10	0.11	0.09	0.16	0.30	0.34	0.30	0.17	0.10	0.07	0.05
(WY)	(2002)	(2002)	(2005)	(2001)	(1990)	(2005)	(1990)	(1992)	(1992)	(1994)	(2001)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1984 - 2011	
Annual total	256.34		947.00			
Annual mean	0.70		2.59		1.24	
Highest annual mean					4.69	1997
Lowest annual mean					0.19	1994
Highest daily mean	4.0	Jun 10	20	Mar 19	60	Mar 21, 1997
Lowest daily mean	0.12	Jan 6	0.13	Dec 31	0.04	Sep 16, 2001
Annual seven-day minimum	0.13	Jan 4	0.15	Sep 14	0.04	Sep 16, 2001
Annual runoff (ac-ft)	508		1,880		900	
Annual runoff (cfs)	0.117		0.432		0.207	
Annual runoff (inches)	1.59		5.87		2.81	
10 percent exceeds	1.5		6.3		3.5	
50 percent exceeds	0.40		0.60		0.26	
90 percent exceeds	0.19		0.17		0.12	

