

Water-Data Report 2012

12374250 MILL CREEK ABOVE BASSOO CREEK, NEAR NIARADA, MT

Pend Oreille Basin
Lower Flathead Subbasin

LOCATION.--Lat 47°49'47", long 114°41'52" referenced to North American Datum of 1983, in SE ¼ NW ¼ NE ¼ sec.20, T.24 N., R.24 W., Sanders County, MT, Hydrologic Unit 17010212, Flathead Indian Reservation, on right bank 0.3 mi upstream from Bassoo Creek, and 4.1 mi northwest of Niarada.

DRAINAGE AREA.--19.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,000 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to Sept. 23, 1987, at site 305 ft downstream at different elevation. Prior to July 23, 1991, at site 275 ft downstream at different elevation.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. No known regulation or diversion occurs upstream from station. Several unpublished observations of water temperature and specific conductance were made during the year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.8	4.1	e4.0	e2.5	e3.0	3.5	85	60	19	15	4.6	3.3
2	3.7	e4.5	e4.5	e3.5	e3.0	e2.5	67	56	20	13	4.6	3.1
3	3.6	e4.0	e4.5	e3.0	e2.5	3.6	57	53	19	13	4.6	3.2
4	3.9	4.4	e4.0	3.0	2.6	6.1	53	47	19	12	4.5	3.1
5	4.6	4.3	e3.5	3.5	2.6	8.2	50	42	20	11	4.3	3.1
6	6.4	e4.0	e2.5	3.3	2.6	e4.0	45	39	23	11	4.2	3.4
7	4.7	e4.0	e2.5	3.1	2.5	e6.0	40	37	21	10	4.0	3.5
8	4.5	4.2	e3.0	2.9	2.5	9.9	37	36	21	9.9	3.7	3.4
9	4.0	4.1	e3.0	2.8	2.5	7.3	37	41	20	9.6	3.6	3.3
10	4.0	e3.5	e3.0	3.0	2.5	7.5	43	52	22	9.2	3.5	3.3
11	4.2	e4.0	2.7	e2.5	2.6	9.9	57	51	21	9.0	3.5	3.3
12	4.5	4.1	3.9	e2.0	2.6	9.9	99	45	21	8.8	3.6	3.2
13	4.2	4.1	4.1	e2.5	2.7	9.5	109	42	26	8.5	3.6	3.3
14	3.9	e4.0	3.5	e2.5	2.7	9.1	87	45	26	8.9	3.5	3.4
15	5.0	e3.5	3.4	3.1	2.4	9.3	76	49	27	10	4.2	3.5
16	4.1	e2.5	3.2	e2.5	2.3	18	66	54	27	8.9	3.7	3.5
17	3.8	e4.0	3.3	e3.0	2.4	19	60	56	27	8.2	3.6	3.5
18	3.9	e4.0	3.3	e3.0	2.5	16	60	52	25	7.8	3.5	3.4
19	3.9	e3.5	3.1	e2.5	2.5	14	58	44	24	7.4	3.4	3.2
20	3.8	e3.0	2.9	e2.5	2.4	13	57	39	22	7.3	3.5	3.2
21	3.8	e4.0	2.7	3.0	2.6	12	81	37	21	7.2	3.5	3.1
22	3.8	4.5	2.5	3.2	e3.0	12	85	36	e20	6.6	3.5	3.1
23	e4.0	6.5	e2.5	2.9	e2.5	12	122	36	19	6.3	3.4	3.0
24	e4.0	6.3	e2.5	2.7	e3.0	12	185	33	18	6.0	3.4	2.8
25	e4.0	5.1	e3.0	e2.5	e3.0	12	200	30	17	5.9	3.4	2.9
26	e4.0	6.1	e3.0	e2.8	3.8	14	141	27	17	5.8	3.4	2.9
27	e4.0	6.0	3.3	e2.8	e2.5	16	116	25	16	5.8	3.4	2.9
28	e4.0	4.9	3.9	2.7	e2.5	20	94	24	15	5.5	3.3	2.9
29	4.4	4.3	e4.0	3.0	e2.0	23	71	22	14	5.2	3.3	2.9
30	4.2	4.1	e4.0	e3.0	---	51	61	20	14	5.0	3.4	2.9
31	4.6	---	e3.5	e3.0	---	86	---	19	---	4.8	3.3	---
Total	129.3	129.6	102.8	88.3	76.3	456.3	2,399	1,249	621	262.6	115.0	95.6
Mean	4.17	4.32	3.32	2.85	2.63	14.7	80.0	40.3	20.7	8.47	3.71	3.19
Max	6.4	6.5	4.5	3.5	3.8	86	200	60	27	15	4.6	3.5
Min	3.6	2.5	2.5	2.0	2.0	2.5	37	19	14	4.8	3.3	2.8
Ac-ft	256	257	204	175	151	905	4,760	2,480	1,230	521	228	190
Cfsm	0.21	0.22	0.17	0.15	0.13	0.75	4.08	2.06	1.06	0.43	0.19	0.16
In.	0.25	0.25	0.20	0.17	0.14	0.87	4.55	2.37	1.18	0.50	0.22	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.60	3.48	3.42	3.39	3.82	7.53	23.3	28.3	16.7	5.90	3.14	2.56
Max	5.05	9.44	16.9	10.6	14.1	35.1	80.0	86.8	53.4	13.0	5.61	3.97
(WY)	(1986)	(2009)	(1996)	(2009)	(2011)	(1986)	(2012)	(1997)	(2011)	(1991)	(1997)	(2010)
Min	1.67	1.96	2.12	1.84	1.70	2.55	4.77	9.16	4.89	1.97	1.42	1.53
(WY)	(2004)	(2005)	(2006)	(2008)	(2010)	(1985)	(2005)	(2005)	(1987)	(2007)	(2007)	(2001)

12374250 MILL CREEK ABOVE BASSOO CREEK, NEAR NIARADA, MT—Continued**SUMMARY STATISTICS**

	Calendar Year 2011	Water Year 2012	Water Years 1983 - 2012	
Annual total	8,096.0	5,724.8		
Annual mean	22.2	15.6	8.69	
Highest annual mean			22.1	2011
Lowest annual mean			3.63	2005
Highest daily mean	148	Jun 9	200	Apr 25, 2012
Lowest daily mean	2.5	Nov 16	2.0	Jan 12
Annual seven-day minimum	2.7	Dec 20	2.4	Feb 15
Maximum peak flow			283	Apr 25
Maximum peak stage			3.01	Apr 25
Instantaneous low flow			^a 283	Apr 25, 2012
Annual runoff (ac-ft)	16,060	11,360	6,290	
Annual runoff (cfs-m)	1.13	0.798	0.443	
Annual runoff (inches)	15.37	10.87	6.02	
10 percent exceeds	64	48	21	
50 percent exceeds	8.0	4.1	3.4	
90 percent exceeds	3.5	2.6	2.0	

^aGage height, 3.01 ft.^bSite and datum then in use.^cGage height, 5.00 ft, site and datum then in use.