

Water-Data Report 2012

06167500 BEAVER CREEK NEAR HINSDALE, MT

Milk Basin
Beaver Subbasin

LOCATION.--Lat 48°25'13", long 107°10'16" referenced to North American Datum of 1983, in SW ¼ NW ¼ NW ¼ sec.27, T.31 N., R.35 E., Valley County, MT, Hydrologic Unit 10050014, on right bank, 100 ft upstream from bridge on county road, and 4.5 mi west of Hinsdale.

DRAINAGE AREA.--1,785 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Intermittent data from April 1918 to September 1921, water year 1920, and seasonal records from May 2005 to current year. Seasonal discharge data for years 2005-07 were not published, but are available at <http://waterdata.usgs.gov/mt/nwis/sw>.

GAGE.--Water-stage recorder. Elevation of gage is 2,130 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. Diversions and pumping for irrigation occur upstream and downstream from station. U.S. Geological Survey satellite telemeter is located at the 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 Several unpublished observations of water temperature and specific conductance were made during the year.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	19					e20	20	18	173	18	48	27
2	19					e19	18	17	152	16	55	31
3	18					e17	17	15	140	12	57	27
4	15					e17	16	15	105	6.4	92	26
5	14					e18	15	16	86	4.8	88	28
6	13					e19	17	17	87	4.8	78	25
7	17					e18	19	22	98	2.5	57	32
8	18					e20	20	21	71	0.97	47	42
9	21					e30	19	17	54	14	45	46
10	23					e50	19	19	71	31	44	50
11	23					e80	18	38	99	23	54	46
12	18					74	18	51	130	13	43	44
13	16					50	18	53	155	11	45	49
14	14					56	18	48	143	14	41	52
15	25					48	18	46	131	11	33	53
16	44					46	19	44	119	13	31	49
17	38					42	20	58	121	14	26	36
18	31					38	21	57	133	17	26	24
19	26					36	22	65	127	19	28	19
20	23					32	22	62	128	19	30	14
21	22					28	21	73	123	20	34	11
22	21					25	20	97	126	17	39	10
23	20					25	20	94	92	14	26	9.8
24	19					24	18	82	55	16	21	8.6
25	18					25	17	84	39	23	15	6.2
26	18					24	14	75	28	27	17	6.2
27	18					22	16	108	28	49	20	6.1
28	17					20	16	197	28	67	21	5.7
29	16					21	17	305	24	63	28	e5.5
30	15					21	18	241	21	54	32	e5.5
31	16					20	---	175	---	46	23	---
Total	635					985	551	2,230	2,887	660.47	1,244	794.6
Mean	20.5					31.8	18.4	71.9	96.2	21.3	40.1	26.5
Max	44					80	22	305	173	67	92	53
Min	13					17	14	15	21	0.97	15	5.5
Ac-ft	1,260					1,950	1,090	4,420	5,730	1,310	2,470	1,580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11.2	0.58	0.50	0.50	2.00	119	298	251	399	73.4	67.1	25.9
Max	33.8	0.58	0.50	0.50	2.00	350	2,066	993	2,337	188	412	90.1
(WY)	(2008)	(1920)	(1920)	(1920)	(1920)	(1920)	(2011)	(2011)	(2011)	(1921)	(1918)	(2010)
Min	0.31	0.58	0.50	0.50	2.00	3.27	1.64	9.60	3.31	5.83	1.59	0.03
(WY)	(1921)	(1920)	(1920)	(1920)	(1920)	(2008)	(2008)	(1918)	(1918)	(1918)	(1919)	(1919)

*During periods of operation [intermittently from April 1918 to September 1921 (except for water year 1920 which was a complete water year) and seasonally from May 2005 to current year].

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1918 – 2012*	
Highest daily mean	7,140	Jun 9	305	May 29	7,140	Jun 9, 2011
Lowest daily mean	8.0	Mar 1	0.97	Jul 8	0.00	Jul 19, 1919
Maximum peak flow			^a 454	May 29	8,210	Jun 9, 2011
Maximum peak stage			^b 7.40	Mar 7	19.44	Jun 9, 2011

*During periods of operation [intermittently from April 1918 to September 1921 (except for water year 1920 which was a complete water year) and seasonally from May 2005 to current year].

^aGage height, 6.88 ft.

^bBackwater from ice.

