Water-Data Report 2013

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 mi^2.

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 North American Vertical Datum of 1988.

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 Several unpublished observations of water temperature and specific conductance were made during the year.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 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e5.5					e9.5	e100	23	749	241	85	45
2	e5.5					e10	e80	23	1,060	213	88	45
3	e5.5					e10	64	23	475	177	92	47
4	e5.0					e9.5	56	21	1,250	160	195	42
5	e4.5					e9.0	39	19	1,940	146	219	34
6	e5.0					e9.0	35	17	1,640	133	209	47
7	e5.0					e9.0	36	18	1,090	120	174	85
8	e5.0					e10	30	19	1,090	126	124	82
9	e5.0					e10	26	20	1,040	174	118	75
10	e5.0					e10	27	29	1,040	145	117	87
11	e5.0					e15	27	24	1,080	105	110	98
12	e5.0					e15	27	23	1,100	83	123	89
13	e5.0					e20	25	21	1,180	80	121	80
14	e5.0					e20	26	21	1,230	95	110	74
15	e5.0					e20	25	26	1,250	97	120	64
16	e5.5					e20	25	32	1,220	82	122	75
17	e5.5					e20	25	37	871	83	118	60
18	e5.0					e20	27	81	660	94	102	42
19	e6.0					e20	37	90	674	85	89	34
20	e6.0					e25	177	84	720	79	81	29
21	e6.5					e30	244	80	651	73	80	23
22	e7.0					e30	157	77	529	67	78	20
23	e7.0					e30	123	55	467	79	84	17
24	e7.0					e30	73	55	411	61	99	13
25	e6.5					e30	39	66	351	60	105	11
26	e6.5					e30	29	59	339	55	97	11
27	e6.5					e35	28	61	317	45	75	10
28	e6.5					e35	26	45	264	51	84	8.8
29	e7.0					e45	25	55	224	52	72	8.0
30	e7.0					e70	23	64	236	55	66	6.7
31	e8.0					e90	---	99	---	66	58	---
Total	179.5					746.0	1,681	1,367	25,148	3,182	3,415	1,362.5
Mean	5.79					24.1	56.0	44.1	838	103	110	45.4
Max	8.0					90	244	99	1,940	241	219	98
Min	4.5					9.0	23	17	224	45	58	6.7
Ac-ft	356					1,480	3,330	2,710	49,880	6,310	6,770	2,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2013, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.5	0.58	0.50	0.50	2.00	109	278	233	433	75.6	70.4	27.4
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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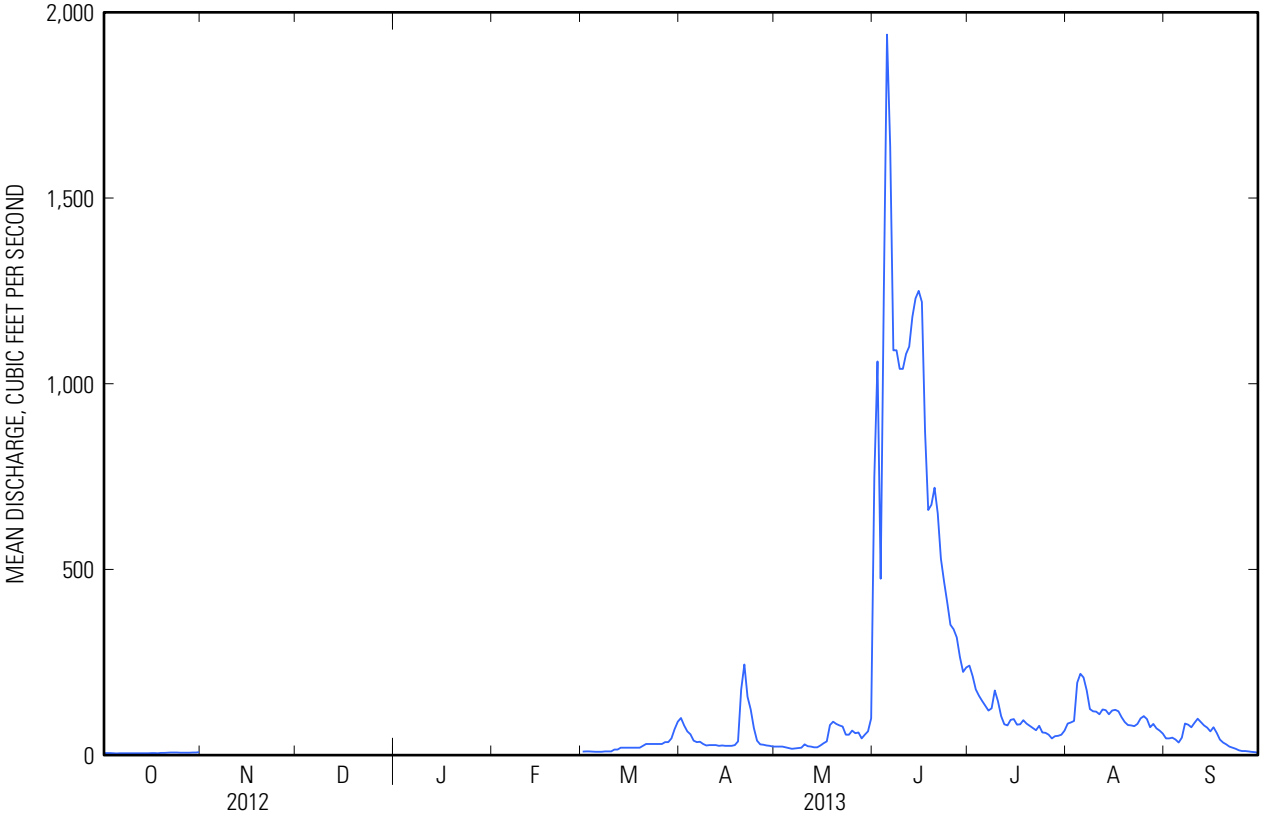
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1918 – 2013*	
Highest daily mean	305	May 29	1,940	Jun 5	7,140	Jun 9, 2011
Lowest daily mean	0.97	Jul 8	4.5	Oct 5	0.00	Jul 19, 1919
Maximum peak flow			2,050	Jun 5	8,210	Jun 9, 2011
Maximum peak stage			15.41	Jun 5	19.44	Jun 9, 2011

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