06166000 BEAVER CREEK BELOW GUSTON COULEE, NEAR SACO, MT

Milk Basin
Beaver Subbasin

LOCATION.--Lat 48°21′24″, long 107°34′57″ referenced to North American Datum of 1927, in SE ¼ SW ¼ NW ¼ sec.16, T.30 N., R.32 E., Phillips County, MT, Hydrologic Unit 10050014, on right bank, 25 ft upstream from bridge on county road, 13 mi southwest of Saco, 22.5 river miles downstream from Guston Coulee, and at mile 61.1.

DRAINAGE AREA.--1,208 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1920 to September 1921, April 1981 to current year (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 2,215 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are fair except those for estimated daily discharges, which are poor. Some regulation occurs by numerous small reservoirs on tributary streams. Diversions for irrigation occur upstream from the gage. U.S. Geological Survey satellite telemetry 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 Several unpublished observations of water temperature and specific conductance were made during the year.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
CALENDAR YEAR JANUARY TO DECEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1			e20	0.65	0.46	333	16	4.5	0.56	0.00		
2			e25	0.47	3.0	394	11	2.8	0.53	0.00		
3			e30	0.35	14	540	9.6	2.1	0.51	0.00		
4			e30	0.23	12	584	8.4	1.9	0.32	0.00		
5			e25	0.11	12	392	4.9	1.4	0.00	0.00		
6			e25	0.01	11	265	1.4	1.1	0.00	0.00		
7			e30	0.00	6.8	217	1.3	0.90	0.00	0.00		
8			e40	0.00	2.3	186	1.1	0.79	0.00	0.00		
9			e40	0.00	1.2	198	0.92	0.69	0.00	0.00		
10			e30	0.00	1.6	254	1.2	0.46	0.10	0.00		
11			e30	0.00	1.6	271	2.6	0.12	0.51	0.00		
12			e50	0.00	2.1	189	3.5	0.00	0.76	0.00		
13			40	0.00	12	122	3.4	0.00	0.68	0.00		
14			27	0.00	34	87	2.8	0.00	0.48	0.00		
15			19	0.01	45	56	6.9	0.04	0.43	0.00		
16			19	0.00	40	45	7.1	0.16	0.40	0.00		
17			25	0.00	27	184	3.6	0.27	0.34	0.00		
18			30	0.00	16	281	0.06	0.35	0.28	0.00		
19			21	0.00	15	174	0.02	0.33	0.21	0.00		
20			15	0.00	18	284	0.02	0.25	0.15	0.00		
21			11	0.00	21	378	0.02	0.15	0.06	0.00		
22			5.1	0.00	35	371	0.02	0.13	0.00	0.00		
23			3.6	0.00	72	257	0.02	0.27	0.00	0.00		
24			1.6	0.00	156	183	0.02	0.74	0.00	0.00		
25			0.90	0.00	223	140	0.02	0.95	0.00	0.00		
26			0.99	0.01	533	99	0.06	0.81	0.00	0.00		
27			2.8	0.14	581	66	0.17	0.79	0.00	0.00		
28			3.6	6.8	430	48	0.27	0.64	0.00	0.00		
29			1.8	12	347	36	2.8	0.57	0.00	0.00		
30			1.0	7.5	330	24	6.5	0.58	0.00	0.00		
31			0.82	---	296	---	4.6	0.57	---	0.00		
Total			604.21	28.28	3,299.06	6,658	100.32	24.36	6.32	0.00		
Mean			19.5	0.94	106	222	3.24	0.79	0.21	0.00		
Max			50	12	581	584	16	4.5	0.76	0.00		
Min			0.82	0.00	0.46	24	0.02	0.00	0.00	0.00		
Ac-ft			1,200	56	6,540	13,210	199	48	13	0.00		

STATISTICS OF MONTHLY MEAN DATA FOR SEASONS 1981 - 2007*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean			59.5	18.2	56.3	39.8	38.1	6.26	49.6	18.6		
Max			304	140	718	315	223	40.7	1,187	342		
(WY)			(2004)	(1987)	(1986)	(1982)	(1998)	(1993)	(1986)	(1987)		
Min			0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00		
(WY)			(1995)	(1995)	(1984)	(2001)	(1985)	(2001)	(1984)	(1985)		

* During periods of operation (1981 to current year).

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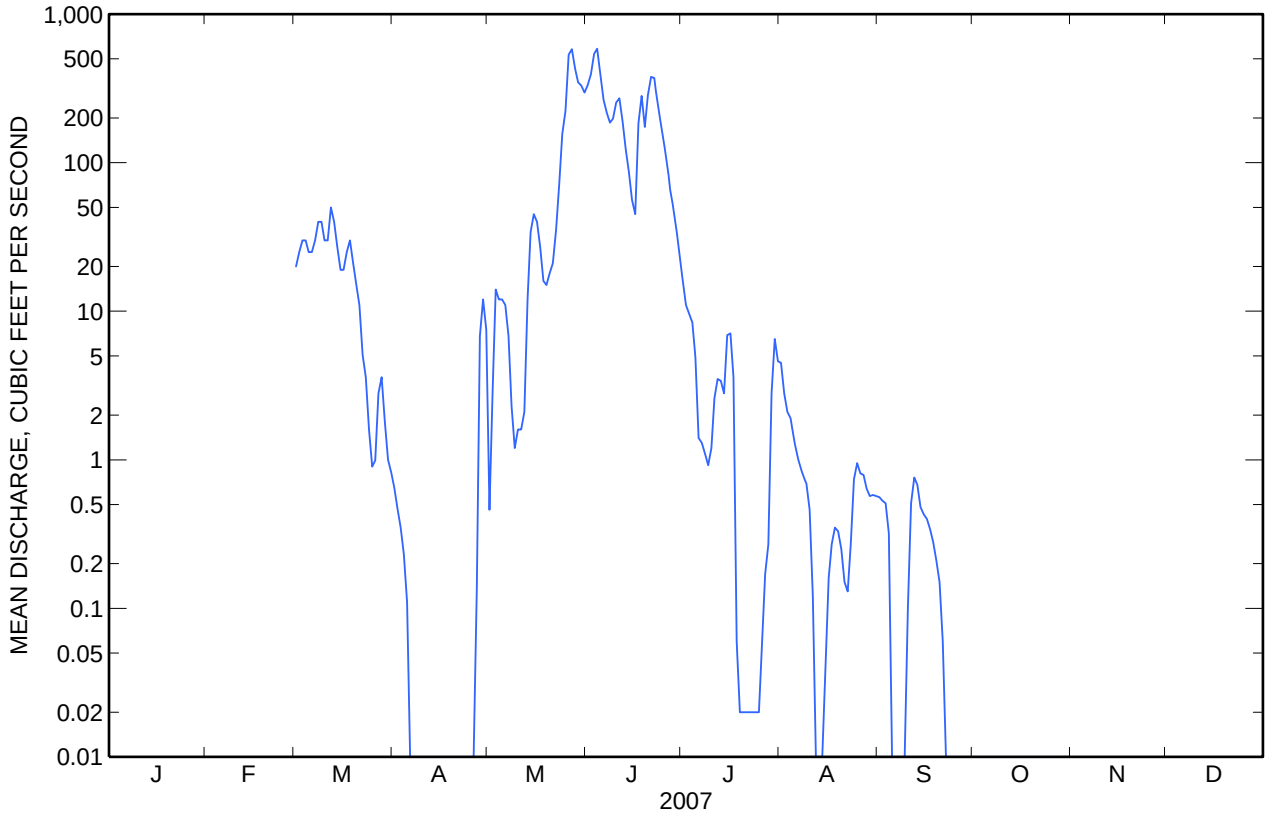
SUMMARY STATISTICS

	2007 Season		Seasons 1981 - 2007*	
Highest daily mean	584	Jun 4	11,900	Sep 27, 1986
Lowest daily mean	0.00	Many days	0.00	Apr 5, 1981[b]
Maximum peak flow	[a]622	Jun 4	[c]23,500	Sep 26, 1986
Maximum peak stage	6.91	May 27	14.68	Sep 26, 1986

* During periods of operation (1981 to current year).
[a] Gage height, 6.86 ft.
[b] No flow at times each year.
[c]From slope-area measurement of peak flow.