Water-Data Report 2007

06090650 LAKE CREEK NEAR POWER, MT

Upper Missouri Basin
Upper Missouri-Dearborn Subbasin

LOCATION.--Lat 47°41′55″, long 111°23′23″ referenced to North American Datum of 1927, in SE ¼ SE ¼ SE ¼ sec.31, T.23 N., R.3 E., Chouteau County, MT, Hydrologic Unit 10030102, on left bank 1.9 mi downstream from county bridge, 1.5 mi upstream from Benton Lake, and 14 mi east of Power.

DRAINAGE AREA.--83.8 mi^2, of which 11.4 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1990 to current year (seasonal records only).

GAGE.--Water-stage recorder. Parshall flume since Apr. 1, 1997. Prior to Apr. 1, 1997 water-stage recorder located at site 1.9 mi upstream. Elevation of gage is 3,620 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Seasonal records are excellent except those for estimated daily discharges, which are fair. Seasonal flows from Muddy Creek are diverted into Lake Creek, most years. 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 Several unpublished observations of water temperature and specific conductance were made during the year.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
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			e10	0.24	0.35	0.07	0.00	0.00	14	16		
2			e20	0.23	0.40	0.02	0.00	15	16	13		
3			e50	0.18	0.62	0.00	0.00	30	23	7.9		
4			61	0.18	0.48	0.00	0.00	33	25	14		
5			e40	0.18	0.33	0.00	0.00	36	24	15		
6			e20	0.18	0.31	0.00	0.00	37	25	15		
7			e8.0	0.18	0.28	0.00	0.00	36	26	15		
8			e3.0	0.18	0.26	0.00	0.00	31	26	15		
9			e1.0	0.18	0.24	0.00	0.00	28	26	15		
10			e0.00	0.18	0.22	0.00	0.00	31	26	15		
11			0.00	0.18	0.16	0.00	0.00	35	27	15		
12			0.22	0.18	0.13	0.00	0.00	36	27	15		
13			0.23	0.18	0.11	0.00	0.00	36	26	15		
14			0.00	0.18	0.06	0.00	0.00	37	25	15		
15			0.00	0.17	0.02	0.00	0.00	28	24	15		
16			0.00	0.16	0.02	0.00	0.00	24	23	15		
17			0.02	0.15	0.03	0.00	0.00	20	22	16		
18			0.12	0.30	0.01	0.00	0.00	18	21	15		
19			0.14	0.83	0.00	0.00	0.00	17	20	e15		
20			0.24	7.8	0.00	0.00	0.00	18	19	e15		
21			0.19	3.5	0.08	0.00	0.00	25	17	e15		
22			0.34	1.3	0.15	0.00	0.00	22	9.2	e15		
23			0.40	0.85	0.09	0.00	0.00	20	17	e15		
24			0.40	0.75	0.08	0.00	0.00	18	16	15		
25			0.39	0.73	0.12	0.00	0.00	17	14	15		
26			0.56	0.63	0.11	0.00	0.00	18	14	15		
27			0.47	0.54	0.09	0.00	0.00	19	12	15		
28			0.36	0.52	0.11	0.00	0.00	20	11	15		
29			0.29	0.49	0.15	0.00	0.00	14	12	15		
30			0.24	0.37	0.18	0.00	0.00	18	12	6.3		
31			0.25	---	0.13	---	0.00	15	---	1.5		
Total			217.86	21.72	5.32	0.09	0.00	752.00	599.2	434.7		
Mean			7.03	0.72	0.17	0.00	0.00	24.3	20.0	14.0		
Max			61	7.8	0.62	0.07	0.00	37	27	16		
Min			0.00	0.15	0.00	0.00	0.00	0.00	9.2	1.5		
Ac-ft			432	43	11	0.2	0.00	1,490	1,190	862		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2007, BY WATER YEAR (WY)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean			4.01	2.68	10.5	11.5	1.09	14.3	24.7	15.7	3.85	
Max			24.8	8.56	30.9	29.8	9.51	35.5	38.1	30.1	10.2	
(WY)			(1993)	(1993)	(1992)	(1991)	(1993)	(1990)	(1990)	(2000)	(1999)	
Min			0.05	0.01	0.06	0.00	0.00	0.35	11.3	0.19	0.22	
(WY)			(2000)	(2003)	(2005)	(2007)	(1992)	(2002)	(2003)	(1994)	(2003)	

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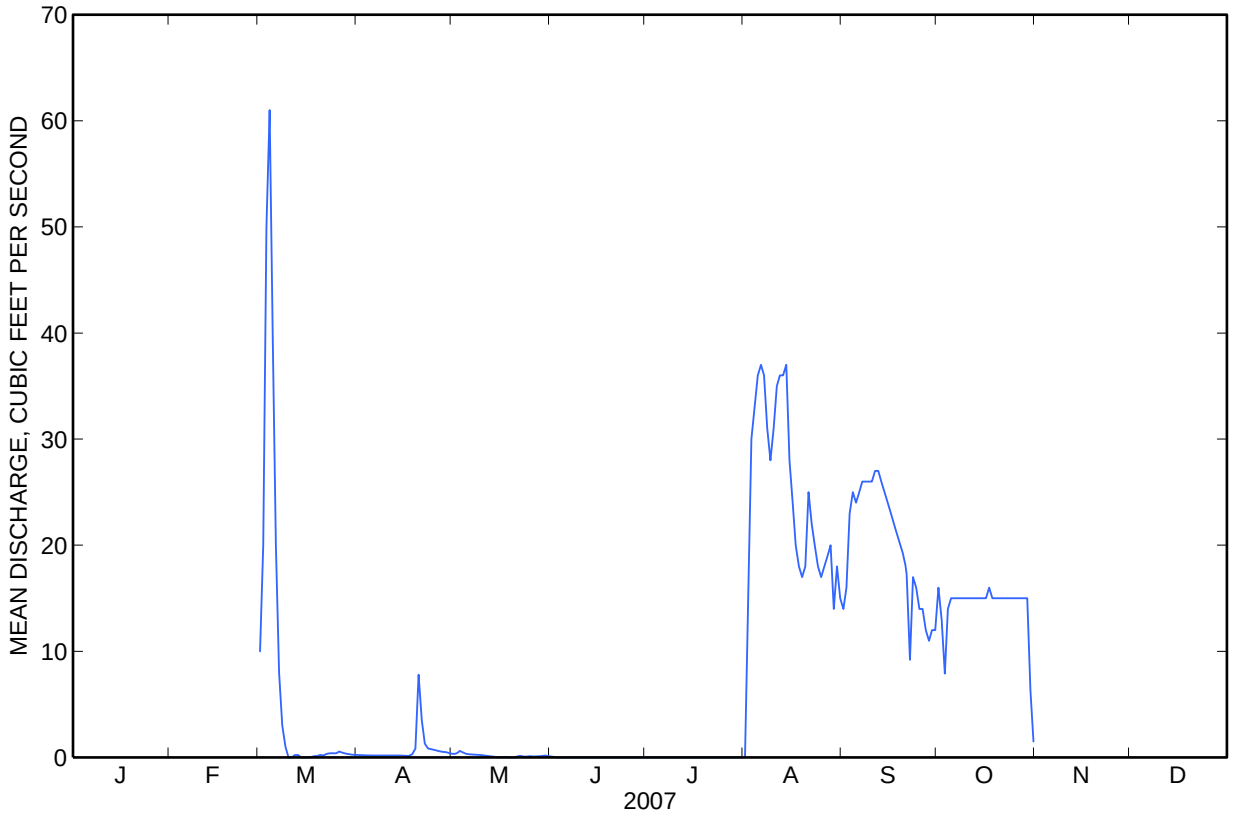
SUMMARY STATISTICS

	2007 Season		Seasons 1990 - 2007	
Highest daily mean	37	Aug 6	300	Mar 6, 1993
Lowest daily mean	.00	Many days	0.00	Jul 1, 1990[a]
Maximum peak flow	40	Aug 6	[b]300	Mar 6, 1993
Maximum peak stage	1.65	Aug 6	[c]7.30	Mar 6, 1993

[a] Many days most years.
[b] Estimated daily discharge during period of ice effect.
[c] From floodmarks, site and datum then in use.