Water-Data Report 2007

06155030 MILK RIVER NEAR DODSON, MT

Milk Basin
Middle Milk Subbasin

LOCATION.--Lat 48°24′11″, long 108°17′35″ referenced to North American Datum of 1927, in NE ¼ SE ¼ NW ¼ sec.36, T.31 N., R.26 E., Phillips County, MT, Hydrologic Unit 10050004, on left bank 30 ft downstream from U.S. Highway 2 bridge, 0.95 mi downstream from Dodson Dam, 1.9 mi west of Dodson, and at river mile 273.2.

DRAINAGE AREA.--11,192 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1982 to current year (seasonal records beginning water year 1994).

GAGE.--Water-stage recorder. Elevation of gage is 2,250 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Numerous diversions for irrigation occur upstream from the station. Bureau of Reclamation 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 Several unpublished observations of water temperature and specific conductance were made during the year.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			e9.5	1.2	225	205	78	0.15	3.5	0.05		
2			e9.5	1.1	260	351	11	0.16	2.7	0.04		
3			e9.5	1.1	287	353	0.32	0.15	2.0	0.04		
4			e10	1.2	270	327	0.12	0.15	1.5	0.04		
5			e10	1.3	271	307	0.13	0.15	1.3	0.06		
6			e10	1.4	238	292	0.15	0.18	1.3	0.04		
7			e10	1.4	193	288	0.17	0.18	1.7	0.03		
8			e10	1.4	176	321	2.9	0.25	1.5	0.03		
9			e10	1.4	144	345	37	0.28	0.94	0.02		
10			e5.0	1.3	89	403	20	0.21	1.8	0.03		
11			e5.0	1.1	52	407	2.4	0.22	3.8	0.02		
12			e5.0	1.1	13	354	0.29	0.23	2.8	0.02		
13			e5.0	1.1	5.0	306	0.20	0.21	1.8	0.02		
14			e5.0	1.1	5.9	285	0.23	0.39	1.6	0.02		
15			e7.0	1.1	1.5	297	0.20	0.25	0.95	0.02		
16			e10	1.1	0.95	369	0.18	0.24	0.80	0.02		
17			20	1.1	0.88	463	0.17	0.25	0.59	0.02		
18			3.1	1.1	0.86	431	0.18	0.24	0.73	52		
19			1.3	2.0	0.94	476	0.18	0.26	1.1	111		
20			1.1	1.8	1.1	492	0.14	0.24	0.78	108		
21			1.1	1.2	4.7	455	0.14	0.21	0.33	106		
22			1.0	1.2	44	395	0.13	0.19	0.19	105		
23			0.91	1.3	110	341	0.17	0.20	0.16	103		
24			0.83	92	88	302	0.22	0.20	0.14	100		
25			0.87	240	36	327	0.17	0.23	0.12	98		
26			0.82	284	14	261	0.19	0.21	0.10	94		
27			1.1	250	5.9	220	0.16	0.22	0.09	90		
28			2.0	233	6.1	200	0.13	0.24	0.08	84		
29			1.8	220	3.5	177	0.14	0.27	0.07	76		
30			0.75	241	3.0	140	0.15	0.29	0.05	69		
31			0.79	---	18	---	0.15	1.4	---	---		
Total			167.97	1,589.1	2,568.33	9,890	155.71	8.05	34.52	1,196.52		
Mean			5.42	53.0	82.8	330	5.02	0.26	1.15	39.9		
Max			20	284	287	492	78	1.4	3.8	111		
Min			0.75	1.1	0.86	140	0.12	0.15	0.05	0.02		
Ac-ft			333	3,150	5,090	19,620	309	16	68	2,370		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 – 1993 AND SEASONS 1994 – 2007

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	83.2	129	418	162	162	210	147	54.1	108	172	97.2	71.3
Max	230	526	2,252	1,691	1,685	655	599	362	1,727	2,688	421	275
(WY)	(1990)	(1986)	(1996)	(1996)	(1986)	(1995)	(1991)	(1993)	(1986)	(1987)	(1987)	(1987)
Min	18.2	20.3	0.14	0.21	3.10	0.42	1.06	0.03	0.01	5.07	0.01	0.00
(WY)	(1985)	(1985)	(2005)	(2005)	(2005)	(2004)	(2005)	(2006)	(2006)	(1991)	(2005)	(2005)

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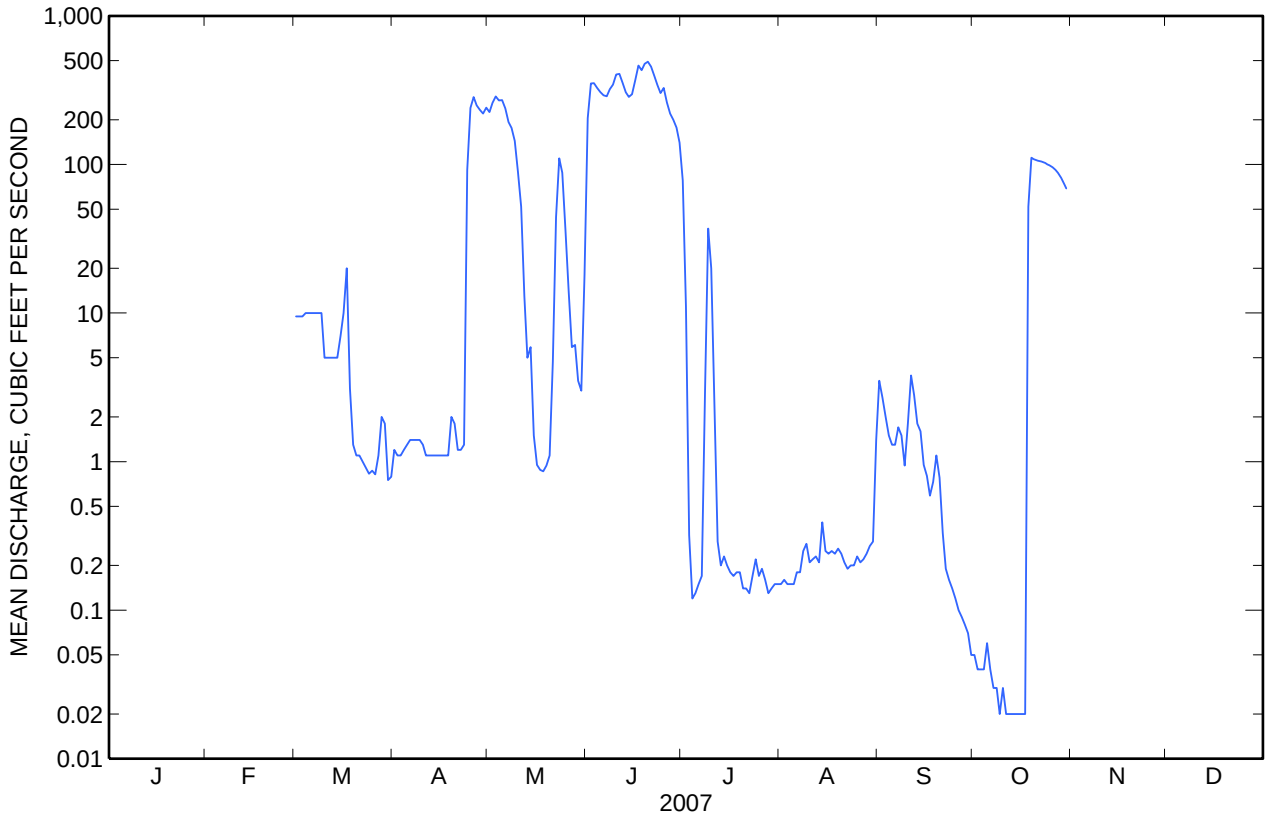
SUMMARY STATISTICS

	2007 Season		Seasons 1994 - 2007		Water Years 1982 - 1993	
Annual mean					163	
Highest annual mean					524	1986
Lowest annual mean					36.6	1985
Highest daily mean	492	Jun 20	5,000	Mar 20, 1996	11,500	Sep 26, 1986
Lowest daily mean	0.02	Many days	0.00	Aug 15, 2003[a]	0.00	Sep 16, 1983[a]
Annual seven-day minimum					0.00	Sep 16, 1983
Maximum peak flow	531	Jun 19	[b]5,200	Mar 17, 1994	13,200	Sep 26, 1986
Maximum peak stage	7.74	Jun 19	[c]24.51	Mar 14, 1996	29.79	Sep 26, 1986
Annual runoff (ac-ft)					118,200	
10 percent exceeds					273	
50 percent exceeds					59	
90 percent exceeds					7.7	

[a] No flow at times most years.
[b] Gage height, 22.71 ft.
[c] Backwater from ice.