06174500 MILK RIVER AT NASHUA, MT

Upper Missouri Basin
Lower Milk Subbasin

LOCATION.--Lat 48°07′47″, long 106°21′50″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.1, T.27 N., R.41 E., Valley County, Hydrologic Unit 10050012, on right bank at downstream side of former highway bridge site, 0.6 mi southwest of Nashua, 2.0 mi upstream from Porcupine Creek, and at river mile 22.7.

DRAINAGE AREA.--22,332 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS. --Water Supply Paper 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,027.75 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Flow increased during irrigation season by water from St. Mary Canal which diverts from the St. Mary River near Babb. Flow is regulated by Fresno Reservoir (station number 06136500), two reservoirs in Lodge Creek basin in Saskatchewan, and four reservoirs in Frenchman River basin in Saskatchewan. Diversions for irrigation include about 140,000 acres upstream from station. U.S. Army Corps of Engineers satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

06174500 MILK RIVER AT NASHUA, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

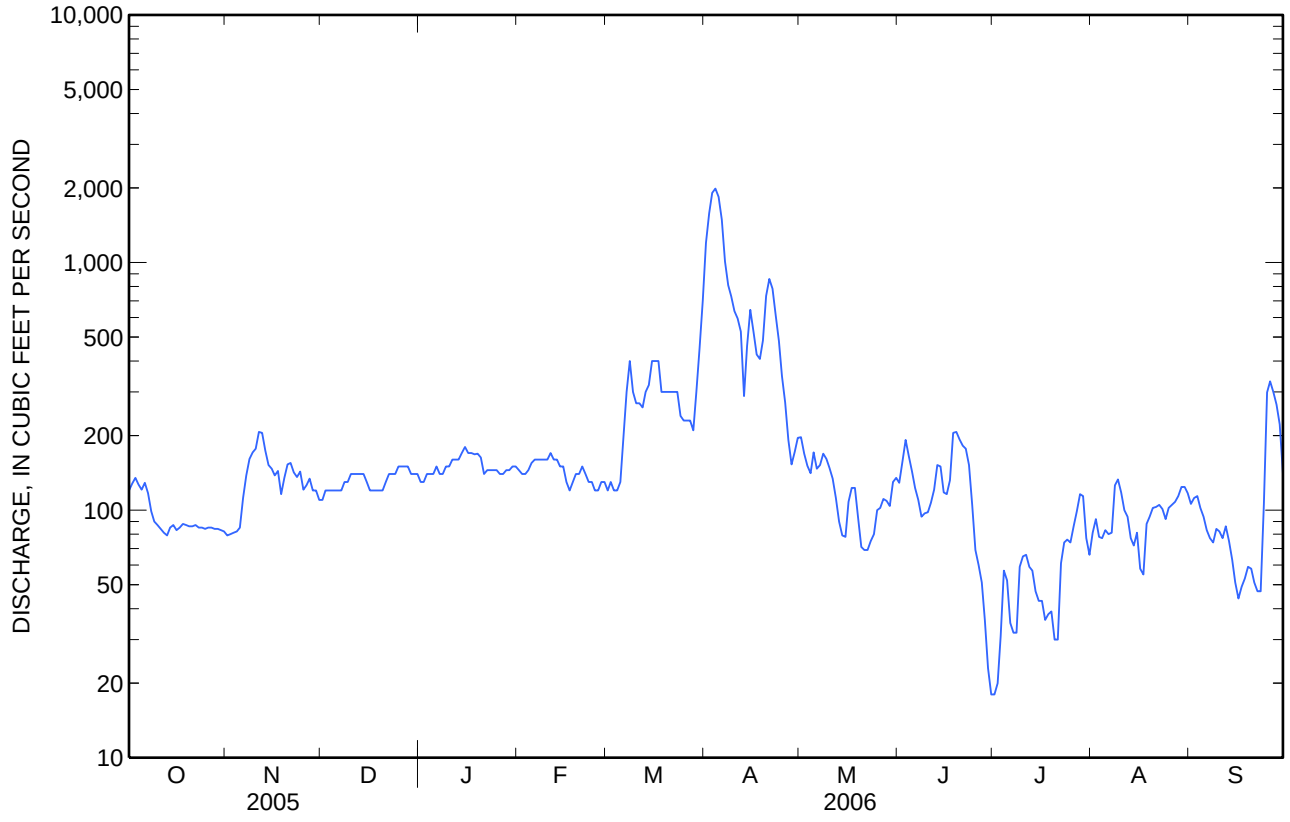
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	120	79	e110	e130	e145	e120	e1,200	197	129	18	81	106
2	128	80	e120	e130	e140	e130	1,580	169	157	e20	92	112
3	135	81	e120	e140	e140	e120	1,910	151	192	31	78	114
4	127	82	e120	e140	e145	e120	1,990	141	165	57	77	102
5	121	85	e120	e140	e155	e130	1,840	171	143	52	83	94
6	129	112	e120	e150	e160	e200	1,490	147	123	35	80	83
7	117	138	e120	e140	e160	e300	1,010	152	110	32	81	77
8	99	161	e130	e140	e160	e400	810	169	94	32	126	74
9	90	171	e130	e150	e160	e300	730	161	97	59	133	84
10	87	177	e140	e150	e160	e270	636	148	98	65	118	82
11	84	207	e140	e160	e170	e270	594	134	107	66	100	77
12	81	205	e140	e160	e160	e260	526	112	121	59	94	86
13	79	174	e140	e160	e160	e300	289	90	152	57	77	75
14	85	152	e140	e170	e150	e320	460	79	150	47	72	63
15	87	147	e130	e180	e150	e400	644	78	118	43	81	51
16	83	138	e120	e170	e130	e400	526	108	116	43	58	44
17	85	144	e120	e170	e120	e400	425	123	132	36	55	49
18	88	116	e120	168	e130	e300	408	123	205	38	88	53
19	87	135	e120	169	e140	e300	484	93	207	39	94	59
20	86	153	e120	163	e140	e300	733	71	193	30	102	58
21	86	155	e130	e140	e150	e300	858	69	182	30	103	51
22	87	142	e140	e145	e140	e300	784	69	177	61	105	47
23	85	136	e140	e145	e130	e300	611	75	152	74	101	47
24	85	143	e140	e145	e130	e240	482	80	105	76	92	106
25	84	121	e150	e145	e120	e230	348	100	69	74	102	299
26	85	126	e150	e140	e120	e230	272	102	60	86	105	331
27	85	134	e150	e140	e130	e230	192	111	51	99	108	300
28	84	e120	e150	e145	e130	e210	153	109	36	116	114	267
29	84	e120	e140	e145	---	e300	172	104	23	114	124	222
30	83	e110	e140	e150	---	e450	196	130	18	77	124	141
31	82	---	e140	e150	---	e700	---	135	---	66	117	---
Total	2,928	4,044	4,090	4,670	4,025	8,830	22,353	3,701	3,682	1,732	2,965	3,354
Mean	94.5	135	132	151	144	285	745	119	123	55.9	95.6	112
Max	135	207	150	180	170	700	1,990	197	207	116	133	331
Min	79	79	110	130	120	120	153	69	18	18	55	44
Ac-ft	5,810	8,020	8,110	9,260	7,980	17,510	44,340	7,340	7,300	3,440	5,880	6,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	297	208	156	144	235	1,266	2,116	968	941	639	298	266
Max	6,837	768	487	843	2,337	6,678	20,930	5,207	6,611	3,578	1,754	2,138
(WY)	(1987)	(1987)	(1987)	(1974)	(1996)	(1986)	(1952)	(1975)	(1953)	(1962)	(1993)	(1978)
Min	34.4	61.2	39.7	36.0	38.9	56.5	15.1	10.5	28.0	3.56	3.42	12.6
(WY)	(2002)	(2002)	(1984)	(1950)	(1949)	(2002)	(1981)	(1992)	(1984)	(1984)	(1984)	(1988)

06174500 MILK RIVER AT NASHUA, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1940 - 2006	
Annual total	86,947		66,374			
Annual mean	238		182		[b]628	
Highest annual mean					2,359	1952
Lowest annual mean					57.7	1984
Highest daily mean	4,430	Jun 11	1,990	Apr 4	44,200	Apr 18, 1952
Lowest daily mean	26	Apr 8	18	Jun 30	0.00	Jul 14, 1984
Annual seven-day minimum	32	Apr 5	28	Jun 27	0.00	Jul 17, 1984
Maximum peak flow			2,010	Apr 4	45,300	Apr 18, 1952
Maximum peak stage			[a]7.12	Mar 11	31.38	Apr 18, 1952
Annual runoff (ac-ft)	172,500		131,700		455,000	
10 percent exceeds	247		300		1,220	
50 percent exceeds	128		130		174	
90 percent exceeds	77		62		58	

[a] Backwater from ice.
[b] Median of yearly discharge, 533 ft³/s, 386,000 ac-ft/yr.