06071300 LITTLE PRICKLY PEAR CREEK AT WOLF CREEK, MT

Upper Missouri Basin
Upper Missouri-Dearborn Subbasin

LOCATION.--Lat 47°00′19″, long 112°04′10″ referenced to North American Datum of 1927, in NE ¼ NW ¼ NE ¼ sec.2, T.14 N., R.4 W., Lewis and Clark County, MT, Hydrologic Unit 10030102, on right bank 30 ft downstream from Interstate 15 access road bridge, 500 ft southwest of Wolf Creek Post Office, 0.5 mi downstream from Wolf Creek, and at river mile 3.2.

DRAINAGE AREA.--381 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1962 to September 1967, October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,547.38 ft, referenced to the National Geodetic Vertical Datum of 1929. May 10, 1962 to July 6, 1965, water-stage recorder on left bank at present elevation. July 7, 1965 to Apr. 11, 1966, non-recording gage on bridge 0.25 mi upstream at elevation 3.27 ft higher. Apr. 12, 1966 to Sept. 30, 1967, water-stage recorder on right bank 23 ft upstream at present elevation.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,500 acres occur upstream 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 Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 7, 1975, reached a stage of 7.45 ft, present elevation, from floodmarks, discharge, 4,500 ft^3/s.

06071300 LITTLE PRICKLY PEAR CREEK AT WOLF CREEK, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	48	51	39	e32	39	78	121	168	64	30	25
2	34	50	53	53	e30	e40	75	117	148	61	29	25
3	36	52	53	63	e35	39	71	138	135	58	28	23
4	37	56	57	59	38	45	69	164	120	56	27	24
5	37	58	58	44	50	43	69	158	118	54	27	24
6	38	59	57	45	58	50	68	132	144	53	29	25
7	39	57	56	44	50	82	66	114	452	49	28	25
8	41	62	54	53	40	77	65	101	439	47	28	29
9	44	59	54	52	39	61	64	92	371	45	28	28
10	43	57	51	50	40	57	64	88	313	44	29	28
11	42	56	53	e30	42	59	63	90	272	44	30	27
12	42	54	54	e25	e28	63	63	83	233	44	28	26
13	42	55	55	e28	e32	86	62	80	204	40	27	28
14	42	57	58	e30	e38	87	61	80	185	38	26	27
15	42	54	60	e32	41	75	62	77	169	37	27	27
16	44	53	54	e35	54	70	67	71	157	39	26	26
17	47	53	33	35	62	69	67	62	151	40	27	26
18	46	54	29	36	62	71	102	59	140	41	27	27
19	46	59	35	38	52	77	115	58	129	37	28	28
20	54	60	40	39	48	82	106	56	115	34	32	29
21	59	61	44	40	45	83	101	58	111	33	30	29
22	59	62	49	41	45	80	101	77	106	32	29	28
23	57	63	47	43	43	78	103	102	98	31	27	36
24	56	61	50	44	40	77	103	87	93	30	27	43
25	55	54	51	41	43	79	108	124	90	31	27	37
26	54	38	54	38	42	85	118	157	75	32	25	34
27	54	28	55	30	41	89	114	163	70	34	24	32
28	52	e25	53	33	41	92	112	184	67	35	23	32
29	52	e30	34	34	---	84	112	211	68	32	23	33
30	52	47	34	e32	---	79	121	202	65	32	23	34
31	48	---	33	36	---	79	---	186	---	33	23	---
Total	1,428	1,582	1,519	1,242	1,211	2,177	2,550	3,492	5,006	1,280	842	865
Mean	46.1	52.7	49.0	40.1	43.2	70.2	85.0	113	167	41.3	27.2	28.8
Max	59	63	60	63	62	92	121	211	452	64	32	43
Min	34	25	29	25	28	39	61	56	65	30	23	23
Ac-ft	2,830	3,140	3,010	2,460	2,400	4,320	5,060	6,930	9,930	2,540	1,670	1,720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2007, BY WATER YEAR (WY) *

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	48.8	52.0	48.3	43.5	56.5	66.1	129	216	192	75.0	42.3	45.5
Max	131	98.5	74.9	69.1	190	109	372	580	684	175	95.4	127
(WY)	(1966)	(1966)	(1966)	(1965)	(1996)	(2003)	(1965)	(1965)	(1967)	(1965)	(1993)	(1965)
Min	29.0	31.5	26.0	30.8	29.3	42.0	64.8	35.5	25.5	17.7	14.2	18.5
(WY)	(2004)	(1993)	(2002)	(1993)	(2001)	(2002)	(2000)	(1992)	(1992)	(2000)	(2000)	(2000)

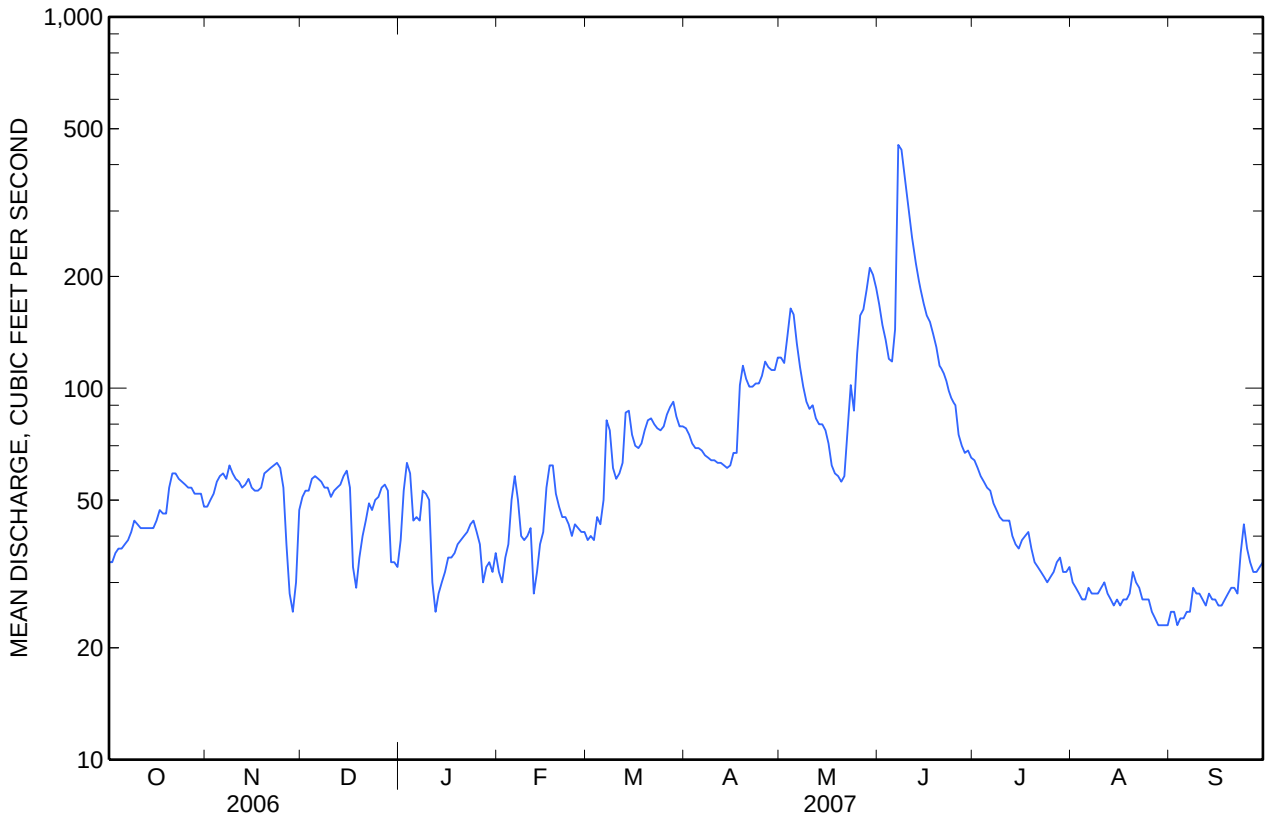
* During periods of operation (May 1962 to September 1967, October 1991 to current year).

06071300 LITTLE PRICKLY PEAR CREEK AT WOLF CREEK, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1962 - 2007*	
Annual total	23,671		23,194			
Annual mean	64.9		63.5		83.8	
Highest annual mean					179	1965
Lowest annual mean					35.2	2000
Highest daily mean	355	Jun 11	452	Jun 7	2,440	Jun 9, 1964
Lowest daily mean	20	Aug 4	23	Aug 28	10	Aug 13, 1992
Annual seven-day minimum	21	Jul 31	24	Aug 28	11	Jul 29, 2000
Maximum peak flow			521	Jun 7	3,110	Jun 9, 1964
Maximum peak stage			4.76	Jun 7	7.65	Jun 9, 1964
Instantaneous low flow			[a]21	Sep 3	[b]9.6	Aug 2, 2000
Annual runoff (ac-ft)	46,950		46,010		60,700	
10 percent exceeds	157		114		162	
50 percent exceeds	46		52		52	
90 percent exceeds	26		28		27	

* During periods of operation (May 1962 to September 1967, October 1991 to current year).

[a] Gage height, 2.79 ft.

[b] Gage height, 2.54 ft.