

Water-Data Report 2007

06177000 MISSOURI RIVER NEAR WOLF POINT, MT

Missouri-Poplar Basin
Prarie Elk-Wolf Subbasin

LOCATION.--Lat 48°04'00", long 105°31'55" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.28, T.27 N., R.48 E., Mccone County, MT, Hydrologic Unit 10060001, on right bank 500 ft downstream from bridge on State Highway 13, 5 mi southeast of Wolf Point, 7.8 mi downstream from Wolf Creek, and at river mile 1,701.4.

DRAINAGE AREA.--82,290 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1928 to current year.

REVISED RECORDS.-- Water Supply Paper (WSP) 1146: 1931. WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,958.57 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to Apr. 13, 1930, nonrecording gages at Wolf Point ferry landing 5.5 mi upstream at different elevation.

REMARKS.--Records are good except those for estimated daily discharges, which are fair. Flow is partly regulated by Fort Peck Lake and many other reservoirs upstream from station. Diversion for irrigation of about 1,010,400 acres occurs 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 Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 14, 1908, reached a stage of about 20 ft (site and elevation then in use).

06177000 MISSOURI RIVER NEAR WOLF POINT, 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	5,560	5,440	e8,000	e10,300	e10,900	e9,000	5,860	4,390	9,740	6,760	6,590	6,790
2	5,460	5,790	e8,800	e9,900	e10,800	e8,800	5,920	5,090	8,910	6,220	6,570	6,840
3	5,520	5,720	e9,400	e10,400	e10,900	e8,600	5,800	5,800	10,100	6,180	6,490	6,850
4	5,500	6,160	e8,800	e9,900	e10,800	e8,900	5,300	6,650	11,800	6,330	6,640	6,900
5	5,390	6,160	e8,700	e9,900	e10,800	e8,200	4,440	7,220	11,300	6,180	6,480	7,120
6	5,570	6,070	e9,000	e9,600	e11,300	e7,600	4,270	6,980	10,700	5,850	6,490	7,060
7	5,510	6,110	e9,000	e10,500	e11,200	e6,000	4,250	7,100	9,860	6,020	6,640	6,950
8	5,580	6,330	e9,500	e10,400	e10,600	e5,700	4,270	7,110	9,120	6,390	6,820	7,000
9	5,330	6,500	e9,200	e10,700	e11,000	e5,900	4,380	6,990	8,550	6,380	6,650	6,960
10	5,410	6,960	e9,500	e10,300	e11,500	e6,000	4,480	7,020	8,420	6,540	6,710	6,720
11	5,370	7,400	e9,100	e9,500	e11,100	e6,200	4,600	6,780	8,750	6,250	6,680	6,910
12	5,330	7,430	e9,400	e8,500	e10,500	e6,300	4,620	6,240	8,440	6,370	6,680	6,450
13	5,240	7,210	e9,400	e9,000	e10,700	e6,200	4,430	7,350	8,150	6,420	6,660	5,730
14	5,200	7,210	e9,800	e10,000	e10,600	e6,500	4,270	8,030	7,080	6,340	6,570	4,870
15	5,590	7,220	e10,500	e9,900	e11,900	e7,900	4,350	7,600	6,990	6,200	6,640	4,460
16	5,550	7,210	e9,900	e10,300	e11,900	e7,000	4,200	7,000	6,850	6,290	6,770	4,420
17	5,720	7,240	e10,400	e9,900	e11,700	e7,500	4,270	7,070	7,960	6,390	6,870	4,420
18	5,490	7,270	e10,400	e9,600	e11,800	e7,900	4,480	6,890	8,100	6,650	6,860	4,210
19	5,360	7,120	e10,600	e9,500	e11,400	e8,300	4,520	6,390	8,550	6,700	6,840	4,340
20	5,310	7,530	e10,000	e9,600	e11,400	7,880	4,520	6,220	9,950	6,680	6,890	4,250
21	5,610	7,930	e8,900	e9,800	e10,900	7,590	4,320	6,420	10,400	6,650	6,760	4,210
22	5,630	8,230	e8,700	e10,200	e11,600	7,390	4,110	6,600	9,870	6,530	6,810	4,110
23	5,610	7,550	e9,100	e10,000	e11,600	6,730	4,100	6,940	8,890	6,590	6,680	4,290
24	5,440	7,510	e10,100	e10,900	e11,900	6,320	4,090	7,390	7,870	6,540	6,900	4,150
25	5,560	7,330	e10,300	e11,000	e11,500	6,130	4,350	7,760	7,350	6,570	6,690	4,210
26	5,550	7,450	e10,200	e10,900	e9,100	6,000	4,610	10,100	7,190	6,460	6,680	4,330
27	5,650	e7,800	e9,700	e11,200	e9,200	5,870	4,350	11,100	6,960	6,440	6,720	4,250
28	5,950	e8,000	e10,100	e11,000	e9,200	5,990	4,280	11,400	7,080	6,440	7,140	4,230
29	5,820	e7,900	e10,300	e10,700	---	6,050	4,250	10,800	7,120	6,700	7,170	4,270
30	5,680	e8,500	e10,300	e10,900	---	5,930	4,170	9,900	7,060	6,660	6,830	4,360
31	5,600	---	e10,000	e11,000	---	5,950	---	9,290	---	6,550	6,820	---
Total	171,090	212,280	297,100	315,300	307,800	216,330	135,860	231,620	259,110	199,270	208,740	161,660
Mean	5,519	7,076	9,584	10,170	10,990	6,978	4,529	7,472	8,637	6,428	6,734	5,389
Max	5,950	8,500	10,600	11,200	11,900	9,000	5,920	11,400	11,800	6,760	7,170	7,120
Min	5,200	5,440	8,000	8,500	9,100	5,700	4,090	4,390	6,850	5,850	6,480	4,110
Ac-ft	339,400	421,100	589,300	625,400	610,500	429,100	269,500	459,400	513,900	395,300	414,000	320,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2007, BY WATER YEAR (WY) *

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,000	8,917	8,938	9,635	9,823	8,765	9,325	9,164	9,312	10,070	11,700	11,390
Max	29,130	22,210	13,420	14,270	15,820	16,750	27,180	21,800	26,040	36,270	27,110	27,150
(WY)	(1956)	(1998)	(1944)	(1971)	(1976)	(1976)	(1952)	(1979)	(1975)	(1975)	(1955)	(1955)
Min	3,151	2,328	1,338	995	1,195	2,301	1,470	1,182	1,268	1,171	3,515	3,274
(WY)	(1993)	(1947)	(1943)	(1943)	(1943)	(1945)	(1945)	(1945)	(1945)	(1945)	(1963)	(1992)

* After Fort Peck Lake reached operational level (1943 to current year).

06177000 MISSOURI RIVER NEAR WOLF POINT, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1943 – 2007*	
Annual total	2,644,320		2,716,160			
Annual mean	7,245		7,442		9,838	
Highest annual mean					15,850	1955
Lowest annual mean					5,548	2005
Highest daily mean	10,600	Dec 19	11,900	Feb 15	45,100	Apr 19, 1952
Lowest daily mean	5,200	Oct 14	4,090	Apr 24	680	Dec 5, 1942
Annual seven-day minimum	5,350	Oct 8	4,220	Sep 20	906	Jan 12, 1943
Maximum peak flow			^a 11,900	Jun 4	^c 46,800	Apr 19, 1952
Maximum peak stage			^b 7.41	Dec 6	15.64	Mar 27, 1960
Instantaneous low flow					^d 320	Dec 10, 1941
Annual runoff (ac-ft)	5,245,000		5,388,000		7,127,000	
10 percent exceeds	8,600		10,700		15,400	
50 percent exceeds	7,510		6,900		8,720	
90 percent exceeds	5,610		4,470		4,500	
Water Years 1929 – 1939**						
Annual mean					7,183	
Highest annual mean					10,300	1939
Lowest annual mean					4,891	1937
Highest daily mean					56,700	May 25, 1939
Lowest daily mean					840	Nov 29, 1937
Annual seven-day minimum					910	Feb 10, 1938
Instantaneous peak flow					^e 66,800	Mar 25, 1939
Instantaneous peak stage					^b 14.40	Mar 25, 1939
Annual runoff (ac-ft)					5,204,000	
10 percent exceeds					14,800	
50 percent exceeds					5,060	
90 percent exceeds					2,600	

* After Fort Peck Lake reached operational level (1943 to current year).

** Prior to Fort Peck Lake reaching operational level (1929-1939).

^a Gage height, 3.72 ft.

^b Backwater from ice.

^c Gage height, 9.98 ft.

^d Occurred outside period of record, during filling of Fort Peck Lake.

^e From rating curve extended above 39,000 ft³/s.

06177000 MISSOURI RIVER NEAR WOLF POINT, MT—Continued

