

Water-Data Report 2009

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI

Upper Mississippi Basin
Rush-Vermillion Subbasin

LOCATION.--Lat 44°44'45", long 92°48'00" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.9, T.26 N., R.20 W., Pierce County, Hydrologic Unit 07040001, on left bank at Prescott, 200 ft downstream from St. Croix River, 300 ft south of Chicago, Burlington & Quincy Railroad bridge, 800 ft south of bridge on U.S. Highway 10, and at mile 811.4 upstream from Ohio River.

DRAINAGE AREA.--44,800 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 1508: 1941. WRD MN-74: 1973.

GAGE.--Water-stage recorder. Datum of gage is 649.50 ft above sea level (NGVD of 1929). Prior to Aug. 2, 1932, non-recording gage at railroad bridge 300 ft upstream at following datums: June 3, 1928 to Sept. 30, 1929, 19.27 ft higher; Oct. 1, 1929 to Sept. 30, 1930, 17.68 ft higher; Oct. 1, 1930 to Aug. 1, 1932, 19.28 ft higher. Aug. 2, 1932 to Oct. 30, 1938, water-stage recorder at present site at datum 19.28 ft higher; Nov. 1, 1938 to Sept. 7, 1971, water-stage recorder at present site at datum 50.00 ft lower.

REMARKS.--Records good to fair except for those determined by flow routing and those that are estimated, which are fair to poor. Discharges below approximately 30,000 ft³/s may be computed by routing flows from the Mississippi River at Hastings, MN (05331580) and St. Croix River at Prescott, WI (05344490). In the 2009 water year, discharges for the periods Oct. 1 to Mar. 21 and May 11 to Sep. 30 were obtained by routing. Some regulation by reservoirs, navigation dams, and power plants at low and medium stages.

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7,480	12,600	10,900	e8,120	e8,420	e8,650	e72,000	33,200	13,900	12,700	6,450	9,690
2	7,570	11,900	11,500	e8,300	e8,520	e9,080	e70,000	33,200	12,500	12,100	6,440	8,750
3	7,050	10,600	11,200	e7,920	e7,740	e8,660	68,900	33,200	11,900	11,000	7,550	8,500
4	7,770	11,600	10,100	e8,030	e7,350	e8,630	65,000	33,000	11,500	10,300	7,190	8,350
5	7,190	12,600	9,500	e7,560	e7,390	9,200	62,800	32,000	12,500	10,100	5,950	e8,150
6	7,410	12,400	e9,510	e7,710	e7,850	9,400	60,400	31,900	11,200	9,440	5,650	7,800
7	7,040	12,200	e8,260	e7,900	e8,610	10,400	58,300	30,900	11,800	8,920	5,940	6,900
8	8,670	13,200	e7,480	e8,160	e8,010	10,300	57,200	30,100	12,100	7,110	9,840	6,560
9	11,100	12,900	e7,110	e8,700	e7,780	9,430	56,500	29,500	12,400	7,340	12,600	6,890
10	11,400	12,900	e6,970	e8,790	e8,630	10,300	55,500	28,400	12,100	8,600	9,140	6,320
11	11,200	13,700	e7,170	e8,450	10,800	12,900	54,000	25,400	12,900	7,560	7,360	6,240
12	12,000	13,300	e7,080	e8,190	11,300	9,180	52,400	23,200	12,600	6,690	7,550	6,530
13	12,700	14,200	e7,410	e7,890	10,300	10,200	50,900	24,500	13,100	6,330	6,870	6,590
14	13,500	15,300	e7,550	e7,930	10,100	11,500	48,900	24,900	13,900	5,140	6,950	e6,590
15	13,200	15,100	e7,450	e7,660	9,700	11,600	46,800	22,500	13,100	8,560	7,000	6,300
16	13,800	15,000	e8,680	e7,210	9,440	11,800	44,700	24,700	12,500	9,050	7,280	6,720
17	13,700	14,700	e8,740	e7,400	10,500	14,200	43,600	22,500	12,900	9,650	8,220	6,360
18	14,300	14,800	e7,490	e7,650	12,000	17,700	42,700	20,800	13,600	10,600	7,610	6,260
19	12,100	14,600	e7,220	e8,200	11,100	21,000	41,300	21,300	14,400	8,550	e8,590	5,820
20	13,400	13,700	e7,490	e8,380	10,700	23,600	40,700	19,300	13,200	7,940	11,500	5,520
21	12,700	13,000	e7,680	e8,420	11,600	27,900	39,600	21,600	12,300	8,430	13,500	5,080
22	11,900	12,900	e8,360	e8,330	11,000	31,900	38,100	20,500	13,300	9,960	13,300	5,200
23	11,300	11,800	e8,370	e8,330	9,890	34,300	37,000	19,900	13,800	9,600	14,900	5,350
24	11,000	9,180	e7,680	e7,890	9,960	e38,000	36,800	18,400	13,300	8,080	14,400	6,690
25	12,400	11,900	e7,620	e7,860	10,800	e42,000	35,500	16,500	14,700	8,350	e15,700	7,490
26	13,100	11,200	e8,240	e7,660	10,100	e55,500	34,700	16,200	14,700	8,160	e15,400	6,240
27	11,700	9,220	e8,410	e7,710	9,080	e64,000	34,900	17,000	14,000	7,770	14,500	6,290
28	11,700	9,850	e8,140	e7,230	8,310	69,100	33,500	15,900	14,700	8,550	e13,700	6,280
29	11,300	11,500	e8,610	e7,690	---	73,300	33,400	14,600	14,400	8,160	12,100	6,120
30	12,500	11,200	e8,250	e7,860	---	75,400	33,200	13,900	12,800	8,050	10,800	6,250
31	13,000	---	e7,850	e7,880	---	75,400	---	12,500	---	7,110	9,760	---
Total	345,180	379,050	258,020	247,010	266,980	824,530	1,449,300	731,500	392,100	269,900	303,740	201,830
Mean	11,130	12,640	8,323	7,968	9,535	26,600	48,310	23,600	13,070	8,706	9,798	6,728
Max	14,300	15,300	11,500	8,790	12,000	75,400	72,000	33,200	14,700	12,700	15,700	9,690
Min	7,040	9,180	6,970	7,210	7,350	8,630	33,200	12,500	11,200	5,140	5,650	5,080
Ac-ft	684,700	751,800	511,800	489,900	529,600	1,635,000	2,875,000	1,451,000	777,700	535,300	602,500	400,300
Cfs/m	0.25	0.28	0.19	0.18	0.21	0.59	1.08	0.53	0.29	0.19	0.22	0.15
In.	0.29	0.31	0.21	0.21	0.22	0.68	1.20	0.61	0.33	0.22	0.25	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13,980	13,530	10,170	8,466	8,336	17,240	42,190	32,990	26,700	20,550	13,250	12,640
Max	49,740	40,360	21,460	17,100	21,390	55,010	122,400	90,100	69,890	87,420	48,350	45,950
(WY)	(1987)	(1972)	(1983)	(2006)	(1966)	(1983)	(2001)	(1986)	(1993)	(1993)	(1993)	(1986)
Min	3,526	3,874	3,379	3,153	3,519	4,369	7,215	6,304	4,185	3,197	2,366	3,002
(WY)	(1933)	(1977)	(1934)	(1935)	(1934)	(1934)	(1931)	(1931)	(1934)	(1934)	(1934)	(1976)

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1928 - 2009	
Annual total	6,658,470		5,669,140			
Annual mean	18,190		15,530		^a 18,380	
Highest annual mean					38,540	1986
Lowest annual mean					4,367	1934
Highest daily mean	66,800	May 7	75,400	Mar 30	226,000	Apr 18, 1965
Lowest daily mean	5,080	Aug 28	5,080	Sep 21	1,380	Jul 13, 1940
Annual seven-day minimum	5,600	Sep 7	5,660	Sep 17	2,190	Aug 11, 1936
Maximum peak flow			75,700	Mar 30	228,000	Apr 18, 1965
Maximum peak stage			33.80	Mar 30	43.11	Apr 18, 1965
Annual runoff (ac-ft)	13,210,000		11,240,000		13,310,000	
Annual runoff (cfsm)	0.406		0.347		0.410	
Annual runoff (inches)	5.53		4.71		5.57	
10 percent exceeds	47,500		33,800		39,800	
50 percent exceeds	10,800		10,800		12,000	
90 percent exceeds	6,460		7,050		5,310	

^a Median of annual mean discharges is 19,000 ft³/s.

