

UPPER MISSISSIPPI RIVER MAIN STEM

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI

LOCATION.--Lat 44°44'45", long 92°48'00", in 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 (approximately).

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, nonrecording 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. Auxiliary water-stage recorder 10.7 mi downstream from base gage is used in discharge computations.

REMARKS.--Records good except for those determined by flow routing, which are fair to poor. Discharges below a stage of about 27 ft may be computed by routing flows from the Mississippi River at St. Paul (05331000) and St. Croix River at St. Croix Falls, WI (05340500). In the 2003 water year, discharges for the periods Dec. 6 to Mar. 20 and Aug. 12 to Sep. 30 were obtained by routing. Some regulation by reservoirs, navigation dams, and power plants at low and medium stages.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,400	23,100	13,400	11,800	7,780	7,630	19,000	34,600	31,800	53,700	16,300	6,260
2	16,000	22,700	13,400	10,800	7,770	8,050	19,200	32,100	30,100	53,900	16,300	6,270
3	14,700	21,900	12,200	10,700	7,660	7,450	19,400	29,800	29,000	52,400	14,100	6,290
4	17,900	21,700	11,500	10,800	7,910	7,070	19,000	28,300	27,400	52,400	13,400	6,090
5	20,600	21,600	10,500	10,600	7,680	7,050	18,400	27,600	26,600	51,700	14,500	5,760
6	23,100	21,000	11,500	10,700	7,650	7,020	18,400	27,000	25,200	50,800	13,200	5,890
7	27,300	20,500	10,200	11,500	7,470	6,950	17,000	27,600	24,800	48,500	14,500	5,730
8	31,600	20,700	11,300	10,900	7,610	6,920	15,800	28,200	25,000	45,500	13,900	5,880
9	35,000	20,600	12,300	10,800	7,680	7,040	15,900	30,500	24,400	43,100	12,900	5,620
10	36,600	20,500	11,600	11,200	7,580	6,930	16,000	33,300	23,900	41,500	12,700	5,590
11	38,200	19,600	11,500	11,200	7,730	6,910	16,100	38,000	25,400	39,500	12,600	6,060
12	38,200	19,400	12,000	9,860	7,830	7,330	15,700	43,500	26,600	38,300	11,900	5,560
13	37,500	20,000	12,600	8,720	7,920	7,560	15,300	50,500	28,800	38,000	11,400	6,390
14	37,300	19,800	12,900	8,770	7,640	7,080	15,400	56,200	29,800	37,900	11,200	8,550
15	36,000	18,900	12,700	8,720	7,660	7,220	16,000	58,900	29,700	38,300	10,200	7,800
16	34,200	18,400	12,900	8,560	7,760	7,430	17,600	58,500	29,200	37,800	10,100	8,140
17	32,900	18,200	13,000	8,770	7,460	8,690	22,600	57,700	28,500	36,600	9,980	7,520
18	32,000	17,700	12,300	8,500	7,490	9,350	25,600	55,800	27,600	34,700	9,290	7,360
19	31,000	17,500	12,300	8,530	7,680	10,900	28,400	53,800	25,600	33,400	9,420	7,460
20	29,700	17,400	13,200	8,500	7,620	12,800	30,800	52,400	23,800	31,700	8,990	7,470
21	28,800	17,200	13,400	8,510	7,980	16,700	34,000	52,000	21,100	29,700	8,540	8,380
22	28,700	17,300	13,300	8,400	7,700	18,800	37,600	52,300	19,200	28,000	8,200	8,700
23	27,900	18,000	12,300	8,200	7,890	20,400	41,500	52,600	18,700	27,100	7,990	8,230
24	26,300	17,500	12,200	8,050	7,920	20,700	44,900	52,200	19,400	25,300	7,700	7,980
25	25,100	16,800	11,000	7,730	7,880	21,700	47,100	50,100	28,600	23,600	7,520	7,900
26	25,600	16,200	10,800	7,600	7,430	23,500	47,100	47,600	41,000	22,600	7,150	7,560
27	24,300	14,900	11,300	7,660	6,830	24,000	45,500	44,800	44,700	21,100	7,050	7,460
28	23,700	14,800	11,100	7,910	7,200	23,500	42,700	41,500	48,100	19,000	7,160	7,290
29	24,400	14,400	11,300	7,670	---	21,700	40,200	38,100	50,500	17,900	7,000	7,150
30	24,300	13,600	11,400	7,790	---	20,300	37,100	36,000	52,300	17,300	6,800	6,980
31	23,500	---	11,700	7,880	---	19,400	---	33,800	---	15,800	6,600	---
TOTAL	868,800	561,900	373,100	287,330	214,410	388,080	799,300	1,325,300	886,800	1,107,100	328,590	209,320
MEAN	28,030	18,730	12,040	9,269	7,658	12,520	26,640	42,750	29,560	35,710	10,600	6,977
MAX	38,200	23,100	13,400	11,800	7,980	24,000	47,100	58,900	52,300	53,900	16,300	8,700
MIN	14,700	13,600	10,200	7,600	6,830	6,910	15,300	27,000	18,700	15,800	6,600	5,560
AC-FT	1,723,000	1,115,000	740,000	569,900	425,300	769,800	1,585,000	2,629,000	1,759,000	2,196,000	651,800	415,200
CFSM	0.63	0.42	0.27	0.21	0.17	0.28	0.59	0.95	0.66	0.80	0.24	0.16
IN.	0.72	0.47	0.31	0.24	0.18	0.32	0.66	1.10	0.74	0.92	0.27	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2003, BY WATER YEAR (WY)

MEAN	13,600	13,460	10,150	8,391	8,269	17,210	42,040	32,970	26,330	21,090	13,630	12,840
MAX	49,740	40,360	21,460	16,060	21,390	55,010	122,400	90,100	69,890	87,420	48,350	45,950
(WY)	(1987)	(1972)	(1983)	(1983)	(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	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1928 - 2003	
ANNUAL TOTAL	8,639,870		7,350,030		a18,380	
ANNUAL MEAN	23,670		20,140		38,540	
HIGHEST ANNUAL MEAN					4,367 1934	
LOWEST ANNUAL MEAN					226,000 Apr 18, 1965	
HIGHEST DAILY MEAN	67,400	Apr 18	58,900	May 15	1,380 Jul 13, 1940	
LOWEST DAILY MEAN	8,710	Feb 13	5,560	Sep 12	2,190 Aug 11, 1936	
ANNUAL SEVEN-DAY MINIMUM	8,840	Feb 11	5,760	Sep 6	228,000 Apr 18, 1965	
MAXIMUM PEAK FLOW			59,200	May 15	43.11 Apr 18, 1965	
MAXIMUM PEAK STAGE			32.04	May 15		
ANNUAL RUNOFF (AC-FT)	17,140,000		14,580,000		13,310,000	
ANNUAL RUNOFF (CFSM)	0.53		0.45		0.41	
ANNUAL RUNOFF (INCHES)	7.17		6.10		5.57	
10 PERCENT EXCEEDS	41,200		41,500		39,500	
50 PERCENT EXCEEDS	21,900		16,000		12,000	
90 PERCENT EXCEEDS	9,790		7,400		5,210	

a Median of annual mean discharges is 18,600 ft³/s.

