

UPPER MISSISSIPPI RIVER MAIN STEM

05280000 CROW RIVER AT ROCKFORD, MN

LOCATION.--Lat 4505'12", long 9344'02", in sec. 29, T.119 N., R.24 W., Hennepin County, Hydrologic Unit 07010204, on right bank at Rockford, 150 ft downstream from bridge on State Highway 55, 2 miles downstream from confluence of North and South Forks, and 23 miles upstream from confluence with the Mississippi River.

DRAINAGE AREA.--2,640 mi² (revised).

PERIOD OF RECORD.--April to July 1906 (published as "near Dayton"), June 1909 to September 1917, April to November 1929, March 1930 to September 1931, April to November 1932, March to November 1933, March 1934 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1115: 1932. WSP 1508: 1933. WDR MN-77-2: 1972 (M)(m).

GAGE.--Water-stage recorder. Datum of gage is 893.08 ft above mean sea level. Apr. 13 to July 21, 1906, nonrecording gage at Berning Mill 14 mi downstream at different datum. June 4, 1909 to Sept. 30, 1917, nonrecording gage at site 600 ft downstream at different datum;. Apr. 23, 1929 to Aug. 21, 1934, nonrecording gage at site 600 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	754	401	409	e330	e230	2580	2930	1880	1650	3700	859	482
2	719	409	413	342	e220	2670	3420	1780	1660	3910	796	445
3	699	411	414	353	e215	2720	4070	1680	1620	4060	774	419
4	673	422	e400	e340	e210	2730	4740	1600	1550	4140	761	395
5	635	422	e390	e320	e205	2700	5210	1520	1460	4100	736	371
6	607	429	e380	313	e200	2640	5550	1440	1380	3930	698	348
7	563	424	e380	303	e200	2550	5720	1380	1280	3650	662	330
8	547	424	377	e290	e200	2460	5710	1430	1190	3350	655	308
9	535	424	385	e270	e205	2340	5520	1450	1120	3090	623	296

10	526	429	390	e250	e210	2110	5240	1470	1070	2870	602	283
11	520	429	e400	e230	e210	1880	4910	1470	1020	2690	578	267
12	520	424	e400	e220	e215	1740	4590	1480	1040	2530	537	248
13	555	367	e400	e220	e220	1660	4310	1470	1080	2380	509	241
14	601	373	e400	e210	e225	1550	4080	1440	1090	2240	482	226
15	602	e340	e400	e210	e250	1560	3910	1440	1150	2270	450	219
16	602	313	368	e210	e270	1510	3730	1520	1220	2190	434	215
17	590	e330	e370	e220	321	1510	3550	1540	1260	2180	424	219
18	561	e350	369	e220	393	1440	3380	1570	1290	2120	404	219
19	544	374	365	e220	526	1360	3220	1580	1370	2110	390	212
20	532	e370	e370	e230	753	1290	3090	1550	1590	2110	404	219
21	507	e360	e375	e235	981	1230	2960	1560	1770	2080	424	205
22	498	e360	384	e245	1200	1200	2830	1630	1880	2010	492	195
23	483	e350	340	e245	1540	1170	2720	1720	1970	1910	555	188
24	464	e360	348	e245	1660	1150	2610	1790	2170	1810	602	188
25	457	391	e340	e240	1690	1130	2500	1830	2370	1690	646	185
26	446	397	e340	e240	2010	1140	2400	1800	2520	1560	652	179
27	429	397	e330	e240	2310	1230	2300	1720	2820	1400	621	179
28	421	e390	329	e240	2450	1480	2210	1600	2970	1260	596	176
29	417	e390	e320	e235	---	1820	2100	1600	3170	1140	566	172
30	412	e390	e320	e235	---	2210	1980	1690	3430	1030	532	169
31	407	---	e320	e235	---	2500	---	1690	---	932	504	---
TOTAL	16826	11650	11526	7936	19319	57260	111490	49320	51160	76442	17968	7798
MEAN	543	388	372	256	690	1847	3716	1591	1705	2466	580	260
MAX	754	429	414	353	2450	2730	5720	1880	3430	4140	859	482
MIN	407	313	320	210	200	1130	1980	1380	1020	932	390	169
AC-FT	33370	23110	22860	15740	38320	113600	221100	97830	101500	151600	35640	15470
CFSM	.21	.15	.14	.10	.26	.70	1.41	.60	.65	.93	.22	.10
IN.	.24	.16	.16	.11	.27	.81	1.57	.69	.72	1.08	.25	.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	450	424	296	174	172	873	2212	1448	1262	1041	562	489
MAX	3809	1909	1477	928	1115	4085	9026	5992	6166	6759	3356	4941
(WY)	1986	1972	1983	1992	1966	1983	1965	1986	1906	1993	1997	1991
MIN	16.6	28.3	17.3	12.4	12.5	25.1	57.1	26.7	14.8	5.76	5.87	13.0
(WY)	1934	1937	1938	1938	1959	1934	1934	1934	1934	1934	1934	1933

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1906 - 1998		
ANNUAL TOTAL	655956		438695				
ANNUAL MEAN	1797		1202		815a		
HIGHEST ANNUAL MEAN					2754		1986
LOWEST ANNUAL MEAN					64.5		1931
HIGHEST DAILY MEAN	11800	Apr 9	5720	Apr 7	22100	Apr 16	1965
LOWEST DAILY MEAN	270	Feb 14	169	Sep 30	3.8	Aug 4	1934
ANNUAL SEVEN-DAY MINIMUM	278	Feb 10	178	Sep 24	4.0	Jul 31	1934
INSTANTANEOUS PEAK FLOW			5750	Apr 7	22400	Apr 16	1965
INSTANTANEOUS PEAK STAGE			9.37	Apr 7	19.27b	Apr 16	1965
INSTANTANEOUS LOW FLOW			166	Sep 30	1.8c	Nov 15	1936
ANNUAL RUNOFF (AC-FT)	1301000		870200		590600		
ANNUAL RUNOFF (CFSM)	.68		.46		.31		
ANNUAL RUNOFF	9.24		6.18		4.20		

(INCHES)							
10 PERCENT EXCEEDS	5240		2770		2250		
50 PERCENT EXCEEDS	590		602		270		
90 PERCENT EXCEEDS	290		223		38		

a Median of annual mean discharges is 610 ft³/s.

b From floodmark.

c Caused by ice jam upstream.

