

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05280000 CROW RIVER AT ROCKFORD, MN

LOCATION.--Lat 45°05'12", long 93°44'02", 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.

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 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	275	468	e250	e230	360	1390	1430	2160	1360	427	392
2	155	276	463	e245	e235	389	1400	1370	2070	1320	388	369
3	152	280	e460	e245	e240	464	1390	1290	1960	1350	359	341
4	152	284	e455	e240	e245	490	1380	1200	1880	1480	332	320
5	158	289	e450	e240	e250	478	1340	1170	1810	1530	305	314
6	160	282	e445	e235	e255	491	1470	1170	1740	1500	282	312
7	163	275	e445	e235	e260	e450	1630	1170	1670	1410	264	312
8	163	264	e440	e230	e265	448	1740	1170	1620	1320	250	293
9	166	261	e445	e220	e270	427	1800	1160	1590	1340	257	276
10	166	320	e450	e220	279	e410	1850	1180	1610	1470	271	255
11	166	386	e460	e220	298	e400	1960	1480	1670	1530	306	239
12	160	448	e465	e220	315	e400	2060	1840	1760	1530	319	275
13	155	540	e465	e210	e310	e395	2120	2290	1860	1500	351	299
14	152	582	e455	e210	e310	e410	2140	2580	1940	1460	375	354
15	152	600	e445	e210	307	439	2150	2820	2060	1390	374	348
16	185	588	e430	e220	305	463	2170	2990	2170	1280	358	342
17	241	573	e410	e240	333	581	2180	3160	2260	1110	341	319
18	218	558	e390	e245	352	813	2170	3240	2300	970	317	289
19	237	556	376	e240	366	1020	2140	3270	2280	856	292	264
20	258	539	e340	e235	354	1110	2100	3250	2170	767	280	248
21	282	491	e320	e235	352	1200	2060	3230	1990	700	272	241
22	282	510	e310	e230	339	1390	2000	3210	1830	645	530	233
23	278	541	e300	e230	316	1660	1930	3210	1760	601	888	227
24	268	536	e310	e225	300	1870	1870	3140	1680	558	876	223
25	258	516	e325	e225	295	1590	1810	3060	1590	516	779	209
26	250	506	e330	e230	292	1410	1750	2950	1500	485	692	203
27	247	496	e310	e230	298	1290	1680	2810	1430	460	609	202
28	245	483	e290	e240	326	1330	1620	2680	1410	439	528	196
29	261	477	e280	e240	---	1370	1550	2540	1410	419	464	195
30	270	472	e270	e230	---	1380	1490	2400	1400	415	425	188
31	276	---	e260	e230	---	1380	---	2270	---	447	406	---
TOTAL	6436	13204	12062	7155	8297	26308	54340	70730	54580	32158	12917	8278
MEAN	208	440	389	231	296	849	1811	2282	1819	1037	417	276
MAX	282	600	468	250	366	1870	2180	3270	2300	1530	888	392
MIN	152	261	260	210	230	360	1340	1160	1400	415	250	188
AC-FT	12770	26190	23920	14190	16460	52180	107800	140300	108300	63790	25620	16420
CFSM	.08	.17	.15	.09	.11	.32	.69	.86	.69	.39	.16	.10
IN.	.09	.19	.17	.10	.12	.37	.77	1.00	.77	.45	.18	.12

e Estimated

05280000 CROW RIVER AT ROCKFORD, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	447	424	297	175	174	872	2207	1459	1269	1041	560	486
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1906 - 1999
ANNUAL TOTAL	430395	306465	
ANNUAL MEAN	1179	840	816 ^a
HIGHEST ANNUAL MEAN			2754
LOWEST ANNUAL MEAN			64.5
HIGHEST DAILY MEAN	5720	Apr 7	3270
LOWEST DAILY MEAN	152	Oct 3	152
ANNUAL SEVEN-DAY MINIMUM	157	Oct 1	157
INSTANTANEOUS PEAK FLOW			3280
INSTANTANEOUS PEAK STAGE			6.56
INSTANTANEOUS LOW FLOW			152
ANNUAL RUNOFF (AC-FT)	853700	607900	590900
ANNUAL RUNOFF (CFSM)	.45	.32	.31
ANNUAL RUNOFF (INCHES)	6.06	4.32	4.20
10 PERCENT EXCEEDS	2770	2060	2240
50 PERCENT EXCEEDS	566	440	274
90 PERCENT EXCEEDS	210	230	39

a Median of annual mean discharges is 620 ft³/s.
 b From floodmark.
 c Caused by ice jam upstream.

