

## 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 mi<sup>2</sup>.

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 (NGVD of 1929). 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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	90	224	e151	e155	e150	1350	1650	1120	11900	1950	4530
2	91	88	236	e150	e154	e148	1510	1600	1070	11700	1890	4390
3	87	86	206	e152	e154	e149	1700	1550	1080	11200	1920	4160
4	84	85	230	e153	e153	e148	1720	1500	1080	10300	2940	3910
5	80	84	264	e155	e152	e148	1770	1480	1060	9390	3650	3650
6	79	83	283	e157	e153	e152	1720	1600	1020	8430	4670	3990
7	79	83	285	e163	e155	e150	1600	1570	1060	7880	5570	3830
8	79	83	293	e167	e157	e156	1570	1660	1100	7110	5970	3710
9	79	83	221	e170	e160	e160	1570	1900	1130	6370	5960	3600
10	85	82	289	e177	e167	e162	1610	1930	1100	6030	5680	3470
11	85	83	282	e179	168	e165	1780	2000	1150	5850	5240	3260
12	82	85	278	e180	170	e168	1880	2090	1130	5280	4760	3020
13	83	93	273	e181	171	e170	1990	2130	1160	4830	4280	2780
14	86	94	212	e180	173	e169	2100	2140	1170	4480	3810	2580
15	90	94	e230	e176	174	218	2170	2120	1130	4140	3410	2390
16	93	96	e245	e173	e172	250	2210	2060	1040	3830	3060	2230
17	92	99	e251	e163	e170	221	2220	2000	940	3540	2970	2090
18	91	101	e249	e153	e167	205	2230	1920	863	3260	3090	1950
19	92	98	e200	e155	e167	199	2200	1820	848	3040	3150	1850
20	90	96	e195	e157	e165	e194	2130	1730	1100	2830	3090	1750
21	90	94	e190	e159	e165	e193	2070	1630	1980	2720	3600	1650
22	91	93	e184	e160	e160	e193	2000	1540	2710	2610	4040	1550
23	94	93	e180	e160	e158	e192	1930	1460	3130	2440	4340	1460
24	93	117	e175	e159	e154	e192	1870	1390	3580	2300	4680	1360
25	91	145	e167	e159	e150	e193	1810	1300	5630	2210	5000	1240
26	90	169	e162	e159	e148	e205	1750	1200	7000	2080	5190	1170
27	90	189	e158	e158	e149	272	1700	1130	9100	2000	5280	1140
28	89	183	e156	e157	e150	366	1710	1070	10700	1980	5280	1080
29	91	227	e154	e157	---	635	1700	1090	11500	1970	5170	1050
30	94	218	e153	e156	---	1040	1680	1200	11900	1950	5010	1010
31	93	---	e152	e156	---	1210	---	1160	---	1970	4770	---
TOTAL	2726	3314	6777	5032	4491	8173	55250	50620	88581	155620	129420	75850
MEAN	87.9	110	219	162	160	264	1842	1633	2953	5020	4175	2528
MAX	94	227	293	181	174	1210	2230	2140	11900	11900	5970	4530
MIN	79	82	152	150	148	148	1350	1070	848	1950	1890	1010
AC-FT	5410	6570	13440	9980	8910	16210	109600	100400	175700	308700	256700	150400
CFSM	0.03	0.04	0.08	0.06	0.06	0.10	0.70	0.62	1.12	1.90	1.58	0.96
IN.	0.04	0.05	0.10	0.07	0.06	0.12	0.78	0.71	1.25	2.19	1.82	1.07

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	433	412	291	173	172	852	2243	1491	1293	1076	593	501
MAX	3809	1909	1477	928	1115	4085	9026	5992	6166	6759	4175	4941
(WY)	1986	1972	1983	1992	1966	1983	1965	1986	1906	1993	2002	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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1906 - 2002

ANNUAL TOTAL	490621	585854	
ANNUAL MEAN	1344	1605	826a
HIGHEST ANNUAL MEAN			2754 1986
LOWEST ANNUAL MEAN			64.5 1931
HIGHEST DAILY MEAN	13000	Apr 29	11900 Jun 30, July 1 22100 Apr 16 1965
LOWEST DAILY MEAN	79	Oct 6	79 Oct 6-9 3.8 Aug 4 1934
ANNUAL SEVEN-DAY MINIMUM	81	Oct 4	81 Oct 4 4.0 Jul 31 1934
MAXIMUM PEAK FLOW			12000 Jul 1 22400 Apr 16 1965
MAXIMUM PEAK STAGE			13.97 Jul 1 19.27b Apr 16 1965
INSTANTANEOUS LOW FLOW			79 Oct 5 1.8c Nov 15 1936
ANNUAL RUNOFF (AC-FT)	973100	1162000	598100
ANNUAL RUNOFF (CFSM)	0.51	0.61	0.31
ANNUAL RUNOFF (INCHES)	6.91	8.26	4.25
10 PERCENT EXCEEDS	4280	4430	2310
50 PERCENT EXCEEDS	126	940	281
90 PERCENT EXCEEDS	86	92	41

- a Median of annual mean discharges is 632 ft<sup>3</sup>/s.
- b From floodmark.
- c Result of ice jam upstream.
- e Estimated.

