

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05287890 ELM CREEK NEAR CHAMPLIN, MN

LOCATION.--Lat 45°09'48", long 93°26'11", in NE¹/₄NW¹/₄ sec. 35, T.120 N., R.22 W., Hennepin County, Hydrologic Unit 07010206, on left bank, 33 ft downstream from bridge on Elm Creek Road, 2.5 mi southwest of Champlin.

DRAINAGE AREA.--86.0 mi².

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 850.70 ft above sea level (NGVD of 1929). Prior to March 16, 1979, nonrecording gage at present site and datum.

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

REVISIONS.--The maximum discharge has been revised for water years; 1982, 471 ft³/s; 1985, 579 ft³/s; 1986, 812 ft³/s; 1994, 669 ft³/s; 1996, 407 ft³/s; 1997, 511 ft³/s; and 1999, 538 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.9	7.0	e4.8	e4.8	2.5	e38	373	86	42	7.9	1.9
2	2.1	4.1	e6.0	e4.9	e4.7	2.4	60	345	76	39	14	1.9
3	1.9	3.8	5.9	e5.1	e4.6	2.7	87	315	66	35	18	2.0
4	1.9	2.9	5.6	e5.1	e4.3	2.4	118	288	59	32	15	1.7
5	1.9	2.1	e5.0	e5.2	e4.2	2.2	183	259	56	28	13	1.5
6	1.8	5.6	5.1	e5.1	e4.2	1.9	243	238	54	25	11	1.4
7	1.7	13	5.1	e5.2	e4.2	1.7	341	233	51	22	9.3	3.4
8	1.5	17	e5.1	e5.2	e4.2	1.5	411	215	47	20	7.3	6.2
9	1.4	17	e5.0	e5.2	e3.9	1.4	447	196	43	18	5.8	3.9
10	1.5	16	e4.4	e5.2	e3.6	1.4	444	177	43	16	4.7	3.1
11	1.3	15	e4.3	e5.2	e3.5	1.4	481	160	42	14	3.8	2.9
12	1.3	17	e3.9	e5.2	e3.4	1.5	562	142	40	13	3.4	2.7
13	1.3	20	e4.0	e5.0	e3.3	1.6	541	125	47	11	2.6	2.2
14	1.3	23	e4.2	5.0	e3.0	1.8	505	110	59	9.3	2.4	2.0
15	1.4	23	e4.4	4.7	e2.8	1.8	473	94	88	8.4	2.5	2.3
16	1.2	23	e4.6	4.9	e2.7	1.9	428	80	108	7.7	3.0	2.2
17	1.3	21	e4.2	e4.9	e2.6	2.1	386	69	118	8.8	2.6	2.4
18	1.2	e19	e4.6	e4.9	e2.6	2.4	359	60	136	13	8.2	2.5
19	1.3	e16	e4.6	e5.0	e2.6	2.5	332	52	155	16	18	2.8
20	1.2	e14	e4.7	e5.0	e2.6	2.8	307	46	157	16	18	2.8
21	1.1	e12	e4.4	e5.0	e2.5	3.2	306	52	152	15	15	2.8
22	1.1	e11	e4.1	e5.0	e2.5	e3.2	328	57	144	15	12	3.8
23	1.3	e10	e3.5	e5.2	2.4	e3.4	606	70	129	19	9.4	13
24	1.3	e10	e3.4	e5.4	2.5	e3.5	777	79	113	19	6.9	16
25	1.5	e9.5	e3.4	e5.5	2.9	e3.6	815	87	97	17	5.2	15
26	1.8	e9.0	e3.8	e5.6	2.6	e3.8	759	109	81	15	4.1	14
27	1.5	e8.7	e4.0	e5.7	2.6	e4.0	651	119	70	12	3.3	13
28	1.6	e8.0	e4.2	e5.8	2.6	e6.0	552	120	60	11	2.9	11
29	1.6	e7.9	e4.4	e6.0	---	12	469	116	53	9.5	2.8	9.6
30	1.5	7.7	e4.6	e6.9	---	14	409	107	47	7.9	3.3	8.0
31	1.5	---	e4.7	e6.3	---	23	---	96	---	6.8	2.3	---
TOTAL	46.3	369.2	142.2	163.2	92.4	119.6	12418	4589	2477	541.4	237.7	158.0
MEAN	1.49	12.3	4.59	5.26	3.30	3.86	414	148	82.6	17.5	7.67	5.27
MAX	2.1	23	7.0	6.9	4.8	23	815	373	157	42	18	16
MIN	1.1	2.1	3.4	4.7	2.4	1.4	38	46	40	6.8	2.3	1.4
AC-FT	92	732	282	324	183	237	24630	9100	4910	1070	471	313
CFSM	.02	.14	.05	.06	.04	.04	4.81	1.72	.96	.20	.09	.06
IN.	.02	.16	.06	.07	.04	.05	5.37	1.99	1.07	.23	.10	.07

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	27.7	21.4	11.2	5.55	10.3	65.1	107	64.3	41.0	33.3	29.1	25.2
MAX	229	67.4	41.3	22.0	99.1	182	414	193	140	157	143	170
(WY)	1986	1994	1992	1992	1984	1992	2001	1999	1991	1993	1993	1991
MIN	1.13	1.03	.92	.74	.91	3.86	5.31	3.54	1.34	.76	1.44	1.08
(WY)	1990	1990	1990	1991	1990	2001	1987	2000	1988	1988	1989	1988

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1979 - 2001

ANNUAL TOTAL	4134.3	21354.0	
ANNUAL MEAN	11.3	58.5	36.8
HIGHEST ANNUAL MEAN			75.1 1986
LOWEST ANNUAL MEAN			4.54 1988
HIGHEST DAILY MEAN	110 Jul 13	815 Apr 25	815 Apr 25 2001
LOWEST DAILY MEAN	1.1 Oct 21	1.1 Oct 21,22	.31 Jun 30 1988
ANNUAL SEVEN-DAY MINIMUM	1.2 Oct 16	1.2 Oct 16	.35 Jun 26 1988
MAXIMUM PEAK FLOW		875 Apr 25	875 Apr 25 2001
MAXIMUM PEAK STAGE		10.02 Apr 25	10.02 Apr 25 2001
INSTANTANEOUS LOW FLOW		.93 Oct 21	.29 Jul 9 1989
ANNUAL RUNOFF (AC-FT)	8200	42360	26670
ANNUAL RUNOFF (CFSM)	.13	.68	.43
ANNUAL RUNOFF (INCHES)	1.79	9.24	5.82
10 PERCENT EXCEEDS	20	167	103
50 PERCENT EXCEEDS	6.8	5.7	11
90 PERCENT EXCEEDS	2.2	1.8	2.0

e Estimated.

