

05287890 ELM CREEK NEAR CHAMPLIN, MN

LOCATION.--Lat 45°09'48", long 93°26'11", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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.

REVISED RECORD.--WDR-MN-02-1: Maximum discharge; 1982, 85, 86, 94, 96, 97, and 99.

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 poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	115	e15	e4.0	1.6	e7.5	86	35	33	57	5.4	e4.1
2	20	115	e13	e3.9	1.7	e6.0	80	32	29	54	5.1	3.9
3	17	113	e13	e3.9	1.7	e7.0	76	29	25	53	5.0	e3.7
4	15	110	e12	e3.9	1.6	8.4	69	25	23	51	5.1	e5.7
5	12	105	12	e3.9	2.2	7.0	63	22	26	48	4.4	e7.4
6	9.6	99	11	e3.6	3.8	11	59	22	25	45	4.2	e9.2
7	7.6	93	11	e3.2	3.6	28	54	20	24	42	3.9	e10
8	7.2	88	11	e3.1	2.5	e31	50	19	33	39	4.0	e11
9	6.7	84	10	e3.0	2.9	e25	46	21	42	36	4.2	10
10	6.2	80	11	e2.6	e2.8	e28	44	24	54	32	4.3	9.9
11	6.2	76	11	e2.2	2.6	e32	44	24	65	29	3.9	8.8
12	5.8	72	e10	e2.2	2.2	e29	48	22	69	26	3.8	8.8
13	5.7	68	e9.4	e1.5	3.0	e26	48	27	73	23	3.4	15
14	5.5	65	e8.1	e1.3	8.8	e22	45	33	80	20	3.3	27
15	6.0	62	e7.8	e1.4	e17	e15	42	36	80	18	3.1	29
16	6.2	57	e7.4	e1.5	e19	12	44	35	76	16	3.4	25
17	6.0	48	e7.1	1.6	e17	e11	58	36	70	14	4.6	22
18	5.7	40	e7.4	1.9	e15	e8.1	66	45	64	12	4.1	18
19	5.6	35	e6.5	1.7	e14	7.9	75	64	58	11	4.1	e16
20	5.5	35	e6.3	1.6	e13	6.4	82	74	62	12	3.8	e15
21	5.2	32	e6.6	e3.0	e12	7.4	83	83	81	11	3.4	e15
22	5.3	30	e5.3	e2.2	e12	8.7	79	89	74	8.6	3.1	e50
23	6.9	29	e4.0	1.6	e11	11	72	87	66	9.0	3.0	85
24	7.2	26	e3.6	1.5	e10	13	65	78	62	9.6	2.9	86
25	7.2	23	e4.5	1.5	e9.3	15	58	70	59	8.7	4.6	89
26	27	22	e3.9	1.6	e8.6	15	54	64	57	9.0	7.4	91
27	37	21	e3.9	1.7	e7.9	18	50	59	55	8.4	6.9	89
28	58	e17	e3.9	1.8	e7.2	25	45	53	56	7.7	6.4	87
29	103	e16	e3.9	1.7	---	39	41	49	56	7.0	5.9	83
30	118	e15	e4.4	1.7	---	66	37	43	58	6.1	6.1	75
31	117	---	e4.1	1.8	---	90	---	38	---	5.6	5.0	---
TOTAL	670.3	1,791	248.1	72.1	214.0	636.4	1,763	1,358	1,635	728.7	137.8	1,009.5
MEAN	21.6	59.7	8.00	2.33	7.64	20.5	58.8	43.8	54.5	23.5	4.45	33.6
MAX	118	115	15	4.0	19	90	86	89	81	57	7.4	91
MIN	5.2	15	3.6	1.3	1.6	6.0	37	19	23	5.6	2.9	3.7
AC-FT	1,330	3,550	492	143	424	1,260	3,500	2,690	3,240	1,450	273	2,000
CFSM	0.25	0.69	0.09	0.03	0.09	0.24	0.68	0.51	0.63	0.27	0.05	0.39
IN.	0.29	0.77	0.11	0.03	0.09	0.28	0.76	0.59	0.71	0.32	0.06	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)

MEAN	30.2	22.6	11.0	5.07	9.30	60.4	103	70.9	54.6	41.9	30.9	29.0
MAX	240	67.4	41.3	22.0	99.1	185	414	203	196	157	151	170
(WY)	(1986)	(1994)	(1992)	(1992)	(1984)	(1985)	(2001)	(2002)	(2004)	(1993)	(2002)	(1991)
MIN	1.13	1.03	0.92	0.74	0.91	3.86	5.31	3.54	1.34	0.76	1.44	1.08
(WY)	(1990)	(1990)	(1990)	(1991)	(1990)	(2001)	(1987)	(2000)	(1988)	(1988)	(1989)	(1988)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1979 - 2005	
ANNUAL TOTAL	13,870.51		10,263.9		39.1	
ANNUAL MEAN	37.9		28.1		82.2	
HIGHEST ANNUAL MEAN					2002	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	346	Jun 3	118	Oct 30	815	Apr 25, 2001
LOWEST DAILY MEAN	0.50	Jan 29	1.3	Jan 14	0.31	Jun 30, 1988
ANNUAL SEVEN-DAY MINIMUM	0.62	Jan 26	1.6	Jan 13	0.35	Jun 26, 1988
MAXIMUM PEAK FLOW			118	Oct 30	875	Apr 25, 2001
MAXIMUM PEAK STAGE			6.46	Oct 30	10.02	Apr 25, 2001
INSTANTANEOUS LOW FLOW			a1.3	Jan 14	0.29	Jul 9, 1989
ANNUAL RUNOFF (AC-FT)	27,510		20,360		28,350	
ANNUAL RUNOFF (CFSM)	0.441		0.327		0.455	
ANNUAL RUNOFF (INCHES)	6.00		4.44		6.18	
10 PERCENT EXCEEDS	106		75		108	
50 PERCENT EXCEEDS	12		15		12	
90 PERCENT EXCEEDS	0.80		3.1		1.9	

a Estimated, minimum daily, backwater from ice.
 e Estimated.

