

05304500 CHIPPEWA RIVER NEAR MILAN, MN

LOCATION.--Lat 45°06'39", long 95°47'57", in SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec. 16, T.119 N., R.41 W., Chippewa County, Hydrologic Unit 07020005, on right bank 20 ft downstream from bridge on State Highway 40, 2.0 mi upstream from small tributary, and 5.5 mi east of Milan.

DRAINAGE AREA.--1,880 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 1145: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 959.69 ft above sea level (NGVD of 1929). Prior to June 15, 1942, nonrecording gage on bridge 800 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor. Flow may be influenced by regulation from several small lakes upstream from gage.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb 28	(daily)	*e820	--	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	255	225	e150	e100	e780	499	360	387	193	204	97
2	348	249	223	e150	e101	e720	486	352	386	212	194	94
3	343	239	214	e150	e102	e660	475	345	379	264	185	96
4	335	239	214	e148	e103	e615	460	342	409	278	177	97
5	329	239	203	e145	e104	e600	451	329	478	272	173	96
6	325	235	147	e143	e105	581	434	319	517	312	167	91
7	319	231	e165	e142	e107	570	417	310	479	351	159	86
8	323	230	e190	e142	e109	596	415	355	437	321	152	85
9	314	227	e215	e142	e110	682	408	416	395	301	145	78
10	311	224	e185	e141	e110	721	393	468	362	349	139	76
11	302	220	e170	e141	e109	728	392	494	326	409	135	74
12	298	217	e195	e141	e108	714	392	532	299	488	130	66
13	295	214	e210	e140	e108	675	397	534	286	501	130	64
14	286	209	e190	e140	e107	644	411	501	294	446	129	63
15	286	204	e195	e140	e107	616	409	474	290	387	124	59
16	281	202	e200	e139	e108	582	416	459	292	352	118	58
17	274	202	e190	e138	e108	566	416	460	300	321	131	57
18	272	206	e180	e136	e109	552	423	446	300	301	168	57
19	272	207	e177	e133	e109	538	432	421	289	312	171	55
20	269	209	e175	e131	e109	530	434	398	274	311	155	54
21	266	208	e172	e128	e109	524	442	384	255	295	146	51
22	262	214	e168	e125	e112	517	425	377	240	276	143	55
23	253	212	e158	e121	e116	524	424	367	233	261	134	58
24	250	211	e152	e115	e150	547	414	351	229	245	128	61
25	249	213	e150	e111	e250	572	404	337	230	250	123	62
26	247	212	e150	e109	e550	589	393	320	225	255	121	62
27	244	211	e150	e107	e800	584	387	324	228	247	117	61
28	243	199	e150	e104	e820	567	383	353	220	241	114	58
29	241	177	e150	e102	e800	547	371	398	213	228	110	52
30	244	187	e150	e101	---	530	370	411	203	221	103	54
31	258	---	e150	e100	---	514	---	395	---	213	97	---
TOTAL	8900	6502	5563	4055	5840	18685	12573	12332	9455	9413	4422	2077
MEAN	287	217	179	131	201	603	419	398	315	304	143	69.2
MAX	361	255	225	150	820	780	499	534	517	501	204	97
MIN	241	177	147	100	100	514	370	310	203	193	97	51
AC-FT	17650	12900	11030	8040	11580	37060	24940	24460	18750	18670	8770	4120
CFSM	.15	.12	.10	.07	.11	.32	.22	.21	.17	.16	.08	.04
IN.	.18	.13	.11	.08	.12	.37	.25	.24	.19	.19	.09	.04

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	239	202	127	73.7	77.6	412	1065	682	585	475	276	222
MAX	1996	1318	655	425	432	2141	6606	2462	2248	2507	2183	2273
(WY)	1985	1985	1985	1987	1998	1985	1997	1986	1984	1995	1993	1986
MIN	5.51	8.67	4.77	.094	.000	2.92	90.9	81.6	36.8	15.1	6.19	3.50
(WY)	1977	1977	1977	1940	1940	1965	1959	1939	1940	1940	1976	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1938 - 2000
ANNUAL TOTAL	227558	99817	
ANNUAL MEAN	623	273	370 <sup>a</sup>
HIGHEST ANNUAL MEAN			1307
LOWEST ANNUAL MEAN			45.4
HIGHEST DAILY MEAN	2610	May 17	13400
LOWEST DAILY MEAN	147	Dec 6	.00 <sup>b</sup>
ANNUAL SEVEN-DAY MINIMUM	150	Dec 25	55
INSTANTANEOUS PEAK FLOW			820 <sup>c</sup>
INSTANTANEOUS PEAK STAGE			3.69 <sup>d</sup>
INSTANTANEOUS LOW FLOW			49
ANNUAL RUNOFF (AC-FT)	451400	198000	268200
ANNUAL RUNOFF (CFMS)	.33	.15	.20
ANNUAL RUNOFF (INCHES)	4.50	1.98	2.68
10 PERCENT EXCEEDS	1300	517	984
50 PERCENT EXCEEDS	447	232	142
90 PERCENT EXCEEDS	200	102	16

<sup>a</sup> Median of annual mean discharges is 300 ft<sup>3</sup>/s.  
<sup>b</sup> Many days in 1940.  
<sup>c</sup> Estimated daily discharge, backwater from ice.  
<sup>d</sup> Backwater from ice.  
<sup>e</sup> Estimated.  
<sup>f</sup> From highwater mark.

