

MINNESOTA RIVER BASIN--Continued

05304500 CHIPPEWA RIVER NEAR MILAN, MN

LOCATION.--Lat 45°06'39", long 95°47'57", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi².

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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 10	0500	*11,600	*14.63	Jun 15	0600	1,910	4.64
Apr 24	1900	6,330	9.81				

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	52	132	e120	e55	e67	e72	e218	3820	1380	1170	584	216
2	48	158	e112	e54	e66	e73	e318	3560	1350	1160	568	206
3	47	176	e106	e54	e66	e76	e669	3340	1310	1170	551	194
4	46	177	e99	e55	e66	e79	e1080	3220	1260	1140	530	183
5	43	172	e94	e56	e66	e82	e1710	3010	1230	1130	507	174
6	46	176	e88	e57	e66	e83	e2440	2950	1220	1120	483	168
7	51	195	e82	e58	e65	e85	e4900	2910	1190	1080	461	201
8	56	234	e77	e59	e64	e86	6090	2820	1170	1070	442	220
9	57	269	e74	e59	e63	e87	10100	2690	1140	1030	415	235
10	56	263	e71	e61	e63	e89	11500	2630	1360	1020	394	240
11	55	250	e69	e61	e63	e89	11000	2550	1610	e980	378	221
12	53	242	e67	e61	e62	e91	10800	2450	1530	e940	366	200
13	54	247	e65	e61	e62	e94	10100	2340	1670	e890	347	190
14	55	242	e63	e60	e62	e97	9340	2210	1830	e850	330	185
15	52	238	e61	e60	e63	e100	8590	2120	1880	e810	321	187
16	53	155	e59	e60	e63	e102	7610	2040	1780	e780	309	207
17	57	e172	e59	e60	e63	e105	6830	1950	1680	e750	299	213
18	63	e178	e58	e60	e64	e106	6100	1920	1610	723	296	214
19	63	e173	e57	e61	e64	e106	5310	1850	1540	754	278	208
20	60	e164	e56	e61	e64	e110	4690	1710	1480	748	272	209
21	70	e158	e56	e61	e64	e116	4270	1700	1420	739	263	227
22	69	e154	e55	e61	e64	e123	4190	1650	1370	714	255	236
23	68	e151	e55	e61	e64	e125	5450	1620	1340	720	245	240
24	68	e148	e55	e61	e64	e126	6100	1590	1300	701	234	236
25	69	e146	e55	e62	e65	e128	6200	1550	1260	687	226	237
26	73	e144	e56	e63	e66	e126	5890	1540	1220	660	219	227
27	70	e142	e56	e64	e67	e125	5350	1520	1220	635	215	219
28	69	e141	e55	e65	e69	e126	4870	1530	1200	650	212	212
29	78	e138	e55	e66	---	e133	4450	1500	1170	654	207	204
30	97	e133	e55	e68	---	e145	4110	1470	1190	635	219	198
31	94	---	e55	e69	---	e175	---	1430	---	611	212	---
TOTAL	1892	5468	2145	1874	1805	3260	170275	69190	41910	26721	10638	6307
MEAN	61.0	182	69.2	60.5	64.5	105	5676	2232	1397	862	343	210
MAX	97	269	120	69	69	175	11500	3820	1880	1170	584	240
MIN	43	132	55	54	62	72	218	1430	1140	611	207	168
AC-FT	3750	10850	4250	3720	3580	6470	337700	137200	83130	53000	21100	12510
CFSM	.03	.10	.04	.03	.03	.06	3.02	1.19	.74	.46	.18	.11
IN.	.04	.11	.04	.04	.04	.06	3.37	1.37	.83	.53	.21	.12

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	236	201	126	73.5	77.4	407	1137	707	598	481	277	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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1938 - 2001
ANNUAL TOTAL	88357	341485	
ANNUAL MEAN	241	936	379a
HIGHEST ANNUAL MEAN			1307
LOWEST ANNUAL MEAN			45.4
HIGHEST DAILY MEAN	820	Feb 28	11500
LOWEST DAILY MEAN	43	Oct 5	43
ANNUAL SEVEN-DAY MINIMUM	48	Oct 1	48
MAXIMUM PEAK FLOW			11600
MAXIMUM PEAK STAGE			14.63
INSTANTANEOUS LOW FLOW			41
ANNUAL RUNOFF (AC-FT)	175300	677300	274600
ANNUAL RUNOFF (CFSM)	.13	.50	.20
ANNUAL RUNOFF (INCHES)	1.75	6.76	2.74
10 PERCENT EXCEEDS	517	2440	1000
50 PERCENT EXCEEDS	162	200	143
90 PERCENT EXCEEDS	57	58	16

- a Median of annual mean discharges is 298 ft³/s.
- b Many days in 1940.
- c From highwater mark.
- e Estimated.

