

MINNESOTA RIVER BASIN

05311000 MINNESOTA RIVER AT MONTEVIDEO, MN

LOCATION.--Lat 4456'00", long 9544'00", in NW 1 / 4 NW 1 / 4 sec. 19, T.117 N., R.40 W., Yellow Medicine County, Hydrologic Unit 07020004, on right bank 100 ft upstream from bridge on U.S. Highway 212, at Montevideo, and 400 ft downstream from Chippewa River.

DRAINAGE AREA.--6,180 mi², approximately.

PERIOD OF RECORD.--July 1909 to September 1917, October 1917 to September 1929 (no winter records), October 1929 to current year. Prior to October 1939, published as "near Montevideo." Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1035: 1919(M). WSP 1085: 1935-36. WSP 1508: 1912, 1925(M), 1929(M).

GAGE.--Water-stage recorder. Datum of gage is 909.12 ft above mean sea level. July 22, 1909 to Feb. 4, 1932, nonrecording gage at bridge 600 ft downstream at present datum. Feb. 5, 1932 to Nov. 26, 1934, nonrecording gage at bridge 100 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Big Stone Lake since Apr. 17, 1937, Lac qui Parle since Jan. 1938, and Marsh Lake since Nov. 1, 1939.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	688	709	e565	e360	2920	3360	3080	2390	1570	794	783
2	365	791	684	e560	e360	3170	3880	2900	2300	1140	802	762
3	376	919	629	e530	e358	3360	4210	2770	2110	988	810	621
4	368	705	610	e525	e355	3520	4640	2650	2000	1080	788	562
5	363	657	e620	e520	e354	3620	4980	2460	1750	1120	733	513
6	354	759	e620	e510	e365	3630	5380	2250	1240	1170	668	506
7	344	833	e610	e480	373	3620	5850	1960	1140	1250	631	501
8	348	710	e600	e465	378	3570	6390	1950	1130	1470	583	502

9	360	692	e595	e435	374	3380	6760	1990	1190	1670	576	433
10	485	707	e590	e430	364	3200	7120	1980	1480	1690	570	331
11	570	688	e585	e420	357	2790	7430	2050	1540	1580	567	236
12	614	663	e595	e405	355	2300	7650	2050	1410	1550	526	181
13	679	e720	e625	e395	352	2070	7840	2030	1340	1510	511	165
14	663	e750	e630	e390	352	1970	8010	2010	1310	1260	509	169
15	633	e745	e630	e385	355	1950	7970	2010	1310	1320	496	162
16	965	e740	606	e380	365	1900	7780	2040	1290	1280	497	160
17	1050	e740	594	e378	395	1790	7540	2030	1280	1340	491	142
18	1260	e740	594	e375	564	1780	7170	2030	1310	1390	321	128
19	1300	e740	592	e373	691	1780	6800	2070	1300	1400	277	125
20	1270	e740	591	e371	1000	1760	6410	2100	1340	1430	291	123
21	941	e740	595	e371	1320	1660	5990	2170	1380	1580	283	122
22	848	e740	593	e370	1380	1600	5540	2170	1400	1610	528	118
23	831	e740	589	e370	1600	1600	5100	2090	1600	1600	585	117
24	832	e740	590	e369	1980	1670	4770	2080	1830	1590	962	116
25	676	e740	590	e368	2090	1720	4470	2080	2180	1590	1300	117
26	602	e735	587	e367	2170	1910	4270	2100	2300	1590	1020	128
27	597	e705	587	e365	2490	2180	4050	2190	2320	1570	554	118
28	595	e708	583	e363	2730	2300	3630	2300	2310	1410	299	117
29	576	e710	576	e361	---	2340	3340	2390	2190	1240	667	117
30	587	712	576	e360	---	2430	3210	2390	1960	952	784	117
31	601	---	e570	e360	---	2760	---	2420	---	810	786	---
TOTAL	20418	21997	18745	12916	24187	76250	171540	68790	49630	42750	19209	8292
MEAN	659	733	605	417	864	2460	5718	2219	1654	1379	620	276
MAX	1300	919	709	565	2730	3630	8010	3080	2390	1690	1300	783
MIN	344	657	570	360	352	1600	3210	1950	1130	810	277	116
AC-FT	40500	43630	37180	25620	47970	151200	340200	136400	98440	84790	38100	16450
CFSM	.11	.12	.10	.07	.14	.40	.93	.36	.27	.22	.10	.04
IN.	.12	.13	.11	.08	.15	.46	1.03	.41	.30	.26	.12	.05

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	361	374	275	180	201	942	2835	1588	1309	1139	586	343
MAX	3675	3797	2052	962	909	5363	22320	7315	5088	7853	7084	2613
(WY)	1996	1996	1996	1996	1996	1994	1997	1986	1984	1993	1993	1986
MIN	.76	1.61	2.35	1.57	1.06	5.06	7.82	3.13	1.40	1.89	.60	.57
(WY)	1934	1935	1935	1934	1937	1934	1934	1934	1934	1933	1933	1933

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1909 - 1998		
ANNUAL TOTAL	1136870		534724				
ANNUAL MEAN	3115		1465		892a		
HIGHEST ANNUAL MEAN					3166		1997
LOWEST ANNUAL MEAN					4.43		1934
HIGHEST DAILY MEAN	46800	Apr 7	8010	Apr 14	46800	Apr 7	1997
LOWEST DAILY MEAN	105	Jan 24	116	Sep 24	.00b	Aug 14	1933
ANNUAL SEVEN-DAY MINIMUM	109	Jan 22	119	Sep 23	.00	Jul 5	1934
INSTANTANEOUS PEAK FLOW			8120	Apr. 14	47500	Apr 6	1997
INSTANTANEOUS PEAK STAGE			15.17	Apr. 14	23.90	Apr 6	1997
ANNUAL RUNOFF (AC-FT)	2255000		1061000		646200		
ANNUAL RUNOFF (CFSM)	.50		.24		.14		
ANNUAL RUNOFF (INCHES)	6.84		3.22		1.96		
10 PERCENT	8270		3260		2200		

EXCEEDS							
50 PERCENT EXCEEDS	759		784		250		
90 PERCENT EXCEEDS	150		358		35		

a Median of annual mean discharges is 640 ft³/s
b Many days in 1933, 34, and 36.

