

## MINNESOTA RIVER BASIN--Continued

05311000 MINNESOTA RIVER AT MONTEVIDEO, MN

LOCATION.--Lat 44°56'00", long 95°44'00", in NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 19, T.117 N., R.40 W., Yellow Medicine County, Hydrologic Unit 07020004, on right bank 10 ft upstream from bridge on U.S. Highway 212, at Montevideo, and 490 ft downstream from Chippewa River.

DRAINAGE AREA.--6,180 mi<sup>2</sup> (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 sea level. July 22, 1909 to Feb. 4, 1932, nonrecording gage at bridge 500 ft downstream at present datum. Feb. 5, 1932 to Nov. 26, 1934, nonrecording gage at bridge at present datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	1030	1750	e730	e480	1100	2410	2010	3190	1710	1720	1070
2	141	921	1740	e710	e460	1110	2600	1920	3170	1560	1890	894
3	162	889	1740	e690	e460	1230	2580	1900	3150	1550	1820	756
4	176	884	1730	e660	e500	1260	2510	1860	3070	1510	1730	744
5	184	887	1740	e630	e510	1260	2480	1890	2820	1490	1690	742
6	217	888	1740	e610	e525	1260	2420	1960	2600	1470	1460	761
7	574	886	1730	e590	e535	1260	2540	2270	2280	1410	1120	927
8	755	889	1710	e520	e540	1260	2590	2610	1910	1420	1060	874
9	812	894	1590	e510	e545	1260	2650	2730	1910	1470	1100	845
10	728	964	1450	e500	e570	1300	2840	2770	1900	1990	1150	795
11	700	1070	1400	e500	e680	1370	2990	2870	2390	2090	1590	789
12	656	920	1350	e500	e770	1390	3100	2950	2830	2000	1950	786
13	636	934	1350	e480	e840	1450	3140	2990	2900	1490	1970	788
14	499	1030	1350	e480	e840	1450	3160	3050	2880	970	1610	792
15	369	1050	1420	e470	e830	1450	3220	3130	2590	873	1510	790
16	339	1070	1540	e455	e820	1470	3260	3240	2470	984	1440	789
17	364	e1260	1660	e440	e820	1510	3320	3380	2420	1050	1060	783
18	547	e1380	1440	e430	e820	1500	3340	3560	2390	1070	915	778
19	578	e1500	1060	e430	e820	1510	3340	3580	2350	1100	844	788
20	589	1580	e1020	e428	e820	1580	3290	3520	2320	1250	718	768
21	644	1650	e990	e428	e820	1610	3220	3460	2300	1190	761	726
22	674	1650	e920	e428	e820	1690	3140	3410	2160	1180	777	718
23	847	1620	e860	e430	e830	1870	2980	3380	2020	1230	799	711
24	940	1630	e820	e430	840	2120	2580	3350	1980	1490	933	709
25	951	1730	e785	e430	909	2160	2420	3310	2070	1550	947	511
26	949	1760	e775	e450	973	2120	2380	3280	2070	1520	942	420
27	960	1750	e760	e540	1070	1770	2470	3260	2050	1200	891	405
28	1020	1750	e800	e590	1090	1740	2550	3240	2040	1040	889	402
29	1040	1750	e795	e600	---	1890	2540	3230	1910	1100	881	398
30	1030	1760	e760	e560	---	2130	2380	3210	1950	1270	931	401
31	1040	---	e740	e500	---	2200	---	3200	---	1200	1140	---
TOTAL	19245	37976	39515	16149	20537	48280	84440	90520	72090	42427	38238	21660
MEAN	621	1266	1275	521	733	1557	2815	2920	2403	1369	1233	722
MAX	1040	1760	1750	730	1090	2200	3340	3580	3190	2090	1970	1070
MIN	124	884	740	428	460	1100	2380	1860	1900	873	718	398
AC-FT	38170	75330	78380	32030	40740	95760	167500	179500	143000	84150	75850	42960
CFSM	.10	.20	.21	.08	.12	.25	.46	.47	.39	.22	.20	.12
IN.	.12	.23	.24	.10	.12	.29	.51	.54	.43	.26	.23	.13

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	364	384	288	185	208	949	2835	1603	1321	1141	593	348
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1909 - 1999
ANNUAL TOTAL	570300	531077	
ANNUAL MEAN	1562	1455	899 <sup>a</sup>
HIGHEST ANNUAL MEAN			3166
LOWEST ANNUAL MEAN			4.43
HIGHEST DAILY MEAN	8010	Apr 14	46800
LOWEST DAILY MEAN	116	Sep 24	.00 <sup>b</sup>
ANNUAL SEVEN-DAY MINIMUM	119	Sep 23	.00
INSTANTANEOUS PEAK FLOW			47500
INSTANTANEOUS PEAK STAGE			23.90
ANNUAL RUNOFF (AC-FT)	1131000	1053000	651400
ANNUAL RUNOFF (CFSM)	.25	.24	.15
ANNUAL RUNOFF (INCHES)	3.43	3.20	1.98
10 PERCENT EXCEEDS	3260	2960	2220
50 PERCENT EXCEEDS	1240	1230	256
90 PERCENT EXCEEDS	355	500	36

a Median of annual mean discharges is 656 ft<sup>3</sup>/s  
 b Many days in 1933, 34, and 36.

