

## 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 20 ft upstream from bridge on U.S. Highway 212, at Montevideo, and 480 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), WDR MN-2000-1; 1995, 1996.

GAGE.--Water-stage recorder. Datum of gage is 909.12 ft above sea level (NGVD of 1929). 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 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, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	360	450	e478	e416	e810	1800	2540	1500	1540	1020	715
2	256	361	422	e484	e416	e805	2210	2430	1360	1030	858	713
3	342	369	495	e470	e416	e797	2540	2210	1280	747	726	708
4	353	373	647	e410	e418	e728	2700	1790	957	1070	701	692
5	346	373	671	e360	e413	e628	2870	1680	846	1120	784	549
6	331	356	765	e328	e406	e529	3120	1670	877	954	952	453
7	321	347	763	e317	e402	e552	3390	1640	917	915	1240	434
8	321	386	694	e310	e392	e604	3520	1690	956	911	1290	430
9	324	346	726	e294	386	e628	3580	2000	971	717	1140	423
10	340	315	698	e293	370	e636	3590	2200	953	655	875	352
11	370	308	554	e292	369	e638	3600	2340	879	663	810	319
12	390	310	542	e292	362	e645	3580	2460	871	619	811	267
13	400	312	554	e292	360	652	3490	2500	878	687	802	251
14	395	310	564	e291	362	640	3350	2530	874	687	851	248
15	398	299	580	e305	362	636	3240	2590	887	567	844	245
16	398	294	581	e333	365	704	3120	2620	880	598	826	245
17	402	295	575	e390	371	720	2950	2570	854	450	704	239
18	406	308	582	e460	378	723	2840	2380	669	726	529	186
19	403	332	555	e507	384	695	2800	2200	628	632	479	177
20	346	310	e551	e512	410	682	2740	2120	591	496	494	201
21	331	304	e566	e510	452	639	2670	1940	585	467	965	202
22	329	305	e560	e488	640	575	2610	1760	668	481	1100	199
23	309	306	e553	e445	773	544	2310	1620	899	632	1160	197
24	268	333	e555	e426	808	538	2070	1530	1510	809	1350	198
25	317	436	e554	e411	775	536	1850	1520	2150	932	1360	194
26	333	404	e537	e409	e790	537	1790	1520	2430	898	1300	192
27	272	687	e516	e413	e800	542	1780	1550	2440	888	996	189
28	252	712	e516	e411	e810	569	1800	1730	2180	886	623	187
29	258	695	e518	e413	---	743	1880	1730	1800	885	563	185
30	288	656	e504	e413	---	1410	2360	1550	1680	886	697	178
31	341	---	e484	e414	---	1540	---	1510	---	930	715	---
TOTAL	10405	11502	17832	12171	13606	21625	82150	62120	34970	24478	27565	9768
MEAN	335.6	383.4	575.2	392.6	485.9	697.6	2738	2004	1166	789.6	889.2	325.6
MAX	406	712	765	512	810	1540	3600	2620	2440	1540	1360	715
MIN	252	294	422	291	360	529	1780	1510	585	450	479	177
AC-FT	20640	22810	35370	24140	26990	42890	162900	123200	69360	48550	54680	19370
CFSM	0.05	0.06	0.09	0.06	0.08	0.11	0.44	0.32	0.19	0.13	0.14	0.05
IN.	0.06	0.07	0.11	0.07	0.08	0.13	0.49	0.37	0.21	0.15	0.17	0.06

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	361.6	384.3	285.2	182.0	209.8	944.5	2953	1659	1345	1148	593.1	343.9
MAX	3675	3797	1572	760	864	5363	22320	7315	5088	7853	7084	2613
(WY)	1996	1996	1996	1987	1998	1994	1997	1986	1984	1993	1993	1986
MIN	0.76	1.61	2.35	1.57	1.06	5.06	7.82	3.13	1.40	1.89	0.60	0.57
(WY)	1934	1935	1935	1934	1937	1934	1934	1934	1934	1933	1933	1933

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1909 - 2002
ANNUAL TOTAL	993494	328192	
ANNUAL MEAN	2722	899.2	915.4a
HIGHEST ANNUAL MEAN			3166
LOWEST ANNUAL MEAN			4.43
HIGHEST DAILY MEAN	33700	Apr 14	46800
LOWEST DAILY MEAN	142	Jan 1	0.00b
ANNUAL SEVEN-DAY MINIMUM	151	Feb 16	0.00
MAXIMUM PEAK FLOW			47500
MAXIMUM PEAK STAGE			23.90
INSTANTANEOUS LOW FLOW			0.00b
ANNUAL RUNOFF (AC-FT)	1971000	651000	663100
ANNUAL RUNOFF (CFSM)	0.44	0.15	0.15
ANNUAL RUNOFF (INCHES)	5.98	1.98	2.01
10 PERCENT EXCEEDS	7760	2200	2330
50 PERCENT EXCEEDS	465	623	277
90 PERCENT EXCEEDS	191	305	34

- a Median of annual mean discharges is 672 ft<sup>3</sup>/s.
- b Many days in 1933, 34, and 36.
- c Due in part to regulation.
- e Estimated.

