

05311000 MINNESOTA RIVER AT MONTEVIDEO, MN

LOCATION.--Lat 44°56'00", long 95°44'00", in NW¹/₄NW¹/₄ 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 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), 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. Flow regulated by Big Stone Lake since Apr. 17, 1937, Lac qui Parle since Jan. 1938, and Marsh Lake since Nov. 1, 1939.

REVISIONS.--Revised figures of daily-mean discharge for water years 1995 and 1996, superseding those previously published are given below.

WATER YEAR 1995

DEC 25....e500	DEC 30....e630	JAN 4....e640	JAN 9....e440	JAN 14....e380	JAN 19....e390	JAN 24....e330
26....e510	31....e650	5....e560	10....e430	15....e390	20....e380	25....e280
27....e520	JAN 1....e660	6....e500	11....e420	16....e390	21....e370	26....e270
28....e550	2....e650	7....e460	12....e390	17....e390	22....e360	27....e260
29....e580	3....e650	8....e450	13....e370	18....e390	23....e350	

WATER YEAR 1996

DEC 12....e1600	DEC 23....e900	JAN 3....e840	JAN 14....e770	JAN 25....e700	FEB 5....e320	FEB 16....e350
13....e1200	24....e870	4....e830	15....e810	26....e640	6....e300	17....e370
14....e940	25....e860	5....e820	16....e850	27....e560	7....e270	18....e400
15....e980	26....e860	6....e820	17....e870	28....e500	8....e260	19....e480
16....e1000	27....e850	7....e810	18....e850	29....e440	9....e250	20....e700
17....e990	28....e900	8....e810	19....e830	30....e430	10....e250	
18....e980	29....e850	9....e800	20....e900	31....e420	11....e250	
19....e980	30....e840	10....e790	21....e950	FEB 1....e390	12....e250	
20....e970	31....e840	11....e780	22....e880	2....e370	13....e250	
21....e950	JAN 1....e840	12....e770	23....e830	3....e350	14....e260	
22....e930	2....e840	13....e760	24....e760	4....e330	15....e300	

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	629	244	314	e242	e222	1400	1130	860	1090	397	576	137
2	980	270	319	e242	e220	1420	1120	814	1110	418	254	131
3	1050	227	339	e241	e220	1430	1120	761	1110	360	209	131
4	872	225	e360	e240	e222	1460	1070	753	966	397	277	133
5	496	226	e350	e240	e226	1470	862	748	960	405	259	133
6	402	307	e330	e240	e230	1540	721	645	1120	416	253	121
7	355	323	e330	e240	e236	1720	662	636	1200	445	259	108
8	350	323	e330	e240	e243	1730	546	668	1160	627	429	105
9	454	321	e330	e240	e248	1710	528	756	1130	667	278	100
10	468	343	e330	e240	e255	1700	528	866	920	685	223	91
11	465	361	e330	e240	e265	1560	528	946	840	696	187	88
12	464	360	e330	e240	e285	1560	524	1190	821	728	178	e84
13	462	362	e330	e240	e310	1530	536	1240	745	750	142	e74
14	537	372	e330	e240	e310	1460	643	1240	688	854	123	e64
15	584	365	e330	e240	e310	1440	706	1240	718	900	111	e54
16	606	362	e330	e240	e312	1420	725	1310	712	879	103	e54
17	596	362	e330	e240	e312	1340	762	1320	659	803	121	e54
18	585	362	e330	e239	e330	1320	1020	1290	649	481	190	e53
19	585	354	e330	e239	e360	1310	1040	1080	650	419	260	e53
20	582	355	e330	e239	e360	1300	954	912	640	578	272	e52
21	565	333	e330	e239	e360	1140	835	875	583	669	263	51
22	519	337	e330	e238	e365	976	821	854	556	686	197	50
23	459	338	e300	e238	e385	958	814	663	551	692	213	53
24	448	346	e280	e237	e420	954	809	622	532	690	210	50
25	446	335	e280	e236	505	944	766	617	538	558	203	46
26	422	335	e280	e235	612	936	753	620	536	538	200	47
27	384	378	e280	e234	586	937	758	643	532	701	198	54
28	328	376	e265	e232	625	1080	771	654	528	980	195	61
29	315	346	e245	e230	1110	1250	851	701	503	875	194	54
30	254	318	e240	e228	---	1260	865	752	477	845	193	51
31	236	---	e240	e226	---	1170	---	888	---	826	169	---
TOTAL	15898	9866	9702	7375	10444	41425	23768	27164	23224	19965	6939	2337
MEAN	513	329	313	238	360	1336	792	876	774	644	224	77.9
MAX	1050	378	360	242	1110	1730	1130	1320	1200	980	576	137
MIN	236	225	240	226	220	936	524	617	477	360	103	46
AC-FT	31530	19570	19240	14630	20720	82170	47140	53880	46060	39600	13760	4640
CFSM	.08	.05	.05	.04	.06	.22	.13	.14	.13	.10	.04	.01
IN.	.10	.06	.06	.04	.06	.25	.14	.16	.14	.12	.04	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	365	384	283	179	206	954	2812	1595	1315	1136	589	345
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	.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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1909 - 2000
ANNUAL TOTAL	469807	198107	
ANNUAL MEAN	1287	541	893 ^a
HIGHEST ANNUAL MEAN			3166
LOWEST ANNUAL MEAN			4.43
HIGHEST DAILY MEAN	3580	May 19	46800
LOWEST DAILY MEAN	225	Nov 4	.00 ^b
ANNUAL SEVEN-DAY MINIMUM	240	Oct 30	.00
INSTANTANEOUS PEAK FLOW		1740	47500
INSTANTANEOUS PEAK STAGE		7.52	23.90
INSTANTANEOUS LOW FLOW		46 ^c	.00 ^b
ANNUAL RUNOFF (AC-FT)	931900	392900	647200
ANNUAL RUNOFF (CFSM)	.21	.088	.14
ANNUAL RUNOFF (INCHES)	2.83	1.19	1.96
10 PERCENT EXCEEDS	2960	1120	2190
50 PERCENT EXCEEDS	909	397	259
90 PERCENT EXCEEDS	330	175	36

^a Median of annual mean discharges is 640 ft³/s.
^b Many days in 1933, 34, and 36.
^c Minimum daily.
^e Estimated.

