

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 discharge, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	165	211	e145	e95	e199	665	449	1,820	814	677	332
2	52	147	209	e145	e94	e349	574	444	2,120	742	674	340
3	58	149	209	e144	e95	e647	511	439	2,090	635	548	306
4	60	149	208	e144	e95	e773	500	390	1,740	619	424	299
5	59	161	210	e144	e96	882	502	351	1,500	614	406	297
6	56	144	165	e144	e110	794	496	337	1,460	635	386	304
7	55	143	145	e145	e123	726	487	297	1,400	903	423	289
8	54	157	142	e140	e124	653	493	290	1,260	1,080	393	228
9	54	152	e146	e140	e123	628	517	291	1,220	1,130	390	194
10	66	149	e146	e140	e124	681	519	290	1,450	1,090	467	214
11	94	143	e145	e139	e122	655	505	245	2,100	1,050	549	219
12	101	141	e145	e117	e122	659	493	226	2,250	825	465	217
13	88	149	e145	e99	e149	663	456	433	2,280	825	316	216
14	86	143	e145	e99	e183	664	447	618	2,500	952	249	178
15	139	140	e143	e100	e188	663	450	642	2,920	963	240	160
16	160	141	e141	e100	e184	690	418	648	3,010	808	252	150
17	152	142	e142	e99	e169	707	412	679	2,990	763	243	165
18	151	161	e141	e101	e137	700	412	691	2,920	768	244	200
19	150	164	e141	e101	e138	600	407	559	2,510	827	260	198
20	149	161	e142	e100	e136	468	381	522	2,300	884	251	198
21	154	182	e142	e98	e138	421	397	372	2,180	908	223	244
22	173	197	e141	e99	e138	452	423	343	1,860	878	217	343
23	123	262	e141	e98	e137	540	486	377	1,560	695	223	492
24	107	476	e141	e98	e141	639	493	412	1,320	663	299	914
25	110	390	e142	e98	e141	779	495	589	1,150	660	316	1,000
26	118	294	e142	e98	e142	946	488	784	950	644	325	887
27	109	254	e143	e99	e142	997	486	887	910	576	324	832
28	121	227	e142	e97	e141	1,000	496	1,020	896	429	347	706
29	148	219	e142	e97	e141	983	490	1,100	842	406	349	688
30	110	218	e144	e97	---	961	483	1,280	829	498	343	757
31	141	---	e144	e97	---	865	---	1,410	---	660	287	---
TOTAL	3,246	5,720	4,785	3,562	3,868	21,384	14,382	17,415	54,337	23,944	11,110	11,567
MEAN	105	191	154	115	133	690	479	562	1,811	772	358	386
MAX	173	476	211	145	188	1,000	665	1,410	3,010	1,130	677	1,000
MIN	48	140	141	97	94	199	381	226	829	406	217	150
AC-FT	6,440	11,350	9,490	7,070	7,670	42,420	28,530	34,540	107,800	47,490	22,040	22,940
CFSM	0.02	0.03	0.02	0.02	0.02	0.11	0.08	0.09	0.29	0.12	0.06	0.06
IN.	0.02	0.03	0.03	0.02	0.02	0.13	0.09	0.10	0.33	0.14	0.07	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2004, BY WATER YEAR (WY)

MEAN	361	384	285	182	209	941	2,904	1,646	1,347	1,151	590	342
MAX	3,675	3,797	1,572	760	864	5,363	22,320	7,315	5,088	7,853	7,084	2,613
(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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1909 - 2004	
ANNUAL TOTAL	236,285		175,320			
ANNUAL MEAN	647		479		a908	
HIGHEST ANNUAL MEAN					3,166	1997
LOWEST ANNUAL MEAN					4.43	1934
HIGHEST DAILY MEAN	2,510	May 17	3,010	Jun 16	46,800	Apr 7, 1997
LOWEST DAILY MEAN	48	Oct 1	48	Oct 1	60.00	Aug 14, 1933
ANNUAL SEVEN-DAY MINIMUM	55	Sep 30	55	Oct 1	0.00	Jul 5, 1934
MAXIMUM PEAK FLOW			c3,010	Jun 16	47,500	Apr 6, 1997
MAXIMUM PEAK STAGE			10.32	Jun 16	23.90	Apr 6, 1997
INSTANTANEOUS LOW FLOW			c45	Oct 2	60.00	Aug 14, 1933
ANNUAL RUNOFF (AC-FT)	468,700		347,700		657,700	
ANNUAL RUNOFF (CFSM)	0.105		0.078		0.147	
ANNUAL RUNOFF (INCHES)	1.42		1.06		2.00	
10 PERCENT EXCEEDS	1,710		987		2,300	
50 PERCENT EXCEEDS	322		297		280	
90 PERCENT EXCEEDS	111		101		34	

- a Median of annual mean discharges is 670 ft³/s.
- b Many days in 1933, 34, and 36.
- c Due in part to regulation.
- e Estimated.

