

MINNESOTA RIVER BASIN--Continued

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	214	514	e142	e255	e318	597	e13000	3450	4390	1390	359
2	50	414	e488	e143	e257	e366	654	e12100	3450	4190	1280	357
3	49	463	e448	e144	e258	e405	930	e11200	3410	3870	1240	353
4	48	516	e338	e150	e255	e438	1190	e10700	3350	3400	1200	346
5	47	512	e290	e162	e249	e431	1730	e10300	3270	3110	1190	342
6	46	526	e245	e173	e230	e431	2570	e9910	3190	3080	1160	336
7	45	538	e232	e183	e221	e421	3730	e9530	3150	3080	1030	302
8	45	630	e220	e186	e222	e418	5510	e9260	3110	3050	876	313
9	46	642	e217	e191	e219	e419	7720	e9120	3110	3000	769	320
10	44	565	e205	e195	e226	e420	10600	8870	3150	3020	747	318
11	44	523	e195	e192	e226	e415	18600	8670	3210	3010	663	281
12	43	528	e183	e191	e223	e415	30000	8440	3240	3010	644	270
13	44	544	e171	e189	e221	e427	33500	8220	3390	3020	638	267
14	42	563	e164	e188	e211	e440	33700	7980	3780	2980	646	269
15	36	498	e159	e186	e185	e439	32700	7810	4450	2910	698	274
16	35	532	e157	e188	e152	e418	30700	7560	5500	2800	580	278
17	37	344	e155	e191	e149	e386	27100	7020	5770	2590	568	275
18	39	305	e155	e189	e151	e385	23400	6620	5770	2470	564	272
19	40	303	e155	e188	e150	e379	20700	6160	5830	2370	560	270
20	38	e306	e154	e191	e150	e377	18300	5860	5700	2180	564	252
21	38	e312	e153	e192	e151	e377	17900	5770	5520	2060	607	229
22	38	e312	e153	e183	e152	384	16400	5080	5400	2030	498	222
23	39	e308	e158	e171	e152	452	16900	4110	5060	1970	451	217
24	39	e308	e161	e162	e154	465	17700	3580	4400	1720	441	209
25	47	e308	e161	e163	e160	461	17600	3400	4000	1560	380	240
26	50	e308	e148	e158	e208	461	18200	3380	4320	1530	371	291
27	50	349	e143	e161	e245	465	e17800	3380	4890	1460	369	304
28	57	474	e142	e162	e272	469	e16300	3410	4840	1420	366	301
29	55	506	e141	e167	---	506	e14900	3440	4690	1410	369	297
30	61	498	e140	e204	---	522	e14100	3450	4590	1410	377	293
31	96	---	e141	e245	---	555	---	3450	---	1400	362	---
TOTAL	1439	13149	6486	5530	5704	13265	471731	220780	126990	79500	21598	8657
MEAN	46.4	438	209	178	204	428	15720	7122	4233	2565	697	289
MAX	96	642	514	245	272	555	33700	13000	5830	4390	1390	359
MIN	35	214	140	142	149	318	597	3380	3110	1400	362	209
AC-FT	2850	26080	12860	10970	11310	26310	935700	437900	251900	157700	42840	17170
CFSM	.01	.07	.03	.03	.03	.07	2.54	1.15	.68	.41	.11	.05
IN.	.01	.08	.04	.03	.03	.08	2.84	1.33	.76	.48	.13	.05

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	362	384	282	179	206	947	2956	1655	1347	1151	590	344
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1909 - 2001
ANNUAL TOTAL	183715	974829	
ANNUAL MEAN	502	2671	916a
HIGHEST ANNUAL MEAN			3166
LOWEST ANNUAL MEAN			4.43
HIGHEST DAILY MEAN	1730	Mar 8	33700
LOWEST DAILY MEAN	35	Oct 16	35
ANNUAL SEVEN-DAY MINIMUM	38	Oct 15	38
MAXIMUM PEAK FLOW			33900
MAXIMUM PEAK STAGE			22.15
INSTANTANEOUS LOW FLOW			34c
ANNUAL RUNOFF (AC-FT)	364400	1934000	663300
ANNUAL RUNOFF (CFM)	.081	.43	.15
ANNUAL RUNOFF (INCHES)	1.11	5.87	2.01
10 PERCENT EXCEEDS	1120	7760	2230
50 PERCENT EXCEEDS	362	420	260
90 PERCENT EXCEEDS	53	143	36

- a Median of annual mean discharges is 656 ft³/s.
- b Many days in 1933, 34, and 36.
- c Due in part to regulation.
- e Estimated.

