

MINNESOTA RIVER BASIN--Continued

05325000 MINNESOTA RIVER AT MANKATO, MN

LOCATION(REVISED).--Lat 44°10'08", long 94°00'11", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 108 N., R. 26 W., Blue Earth County, Hydrologic Unit 07020007, on right bank 300 ft downstream from Memorial bridge in Mankato, 2.0 mi downstream from Blue Earth River and at mile 106.2 upstream from Mississippi River.

DRAINAGE AREA.--14,900 mi² (approximately).

PERIOD OF RECORD.--May 1903 to current year (no winter records 1904, 1906-10, 1918-29). Monthly discharge only for some periods, published in WSP 1308. Published as "near Mankato": 1903-21.

REVISED RECORDS.--WSP 875: 1917. WSP 955: Drainage area. WSP 1085: 1929. WSP 1238: 1903, 1908, 1919. WSP 1508: 1916(M), 1918(M), 1926(M), 1928, 1930, 1932(M), 1938(M). WDR-MN-76-1: 1881(M).

GAGE.--Water-stage recorder. Datum of gage is 747.92 ft above sea level (NGVD of 1929). Prior to Oct. 19, 1921, nonrecording gage, at site 1.8 mi upstream at datum 6.4 ft higher. Mar. 15, 1922 to Nov. 30, 1924, nonrecording gage, and Dec. 1, 1924 to May 24, 1971, recorder at site 0.2 mi upstream at present datum. May 25, 1971 to Aug. 14, 1977, recorder at site 0.5 mi upstream at present datum. Aug. 14, 1977 to July 27, 1978, nonrecording gage; and from July 28, 1978 to Sept. 30, 1993, recording gage at site 0.7 mi upstream of present site.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 29.9 ft, Apr. 26, 1881, near present site and datum, from floodmark (estimated discharge, 110,000 ft³/s).

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	324	409	e747	e434	e464	e425	7900	46400	16600	11000	3760	838
2	320	429	e735	e428	e456	e450	13500	42700	15200	10300	3530	743
3	318	448	e715	e441	e453	e500	23600	39400	14000	9920	3180	898
4	312	465	e704	e458	e470	e518	32000	36700	13100	9580	2920	830
5	302	491	e684	e464	e492	e520	39500	35200	12600	9140	2830	695
6	304	703	e671	e474	e512	e530	45000	34600	12100	8710	2620	703
7	300	979	e637	e481	e540	e560	48200	34500	12000	8170	2460	774
8	292	1060	e610	e485	e570	e580	50800	33600	11900	7710	2330	784
9	284	1150	e586	e487	e582	e598	51700	31900	11700	6980	2210	844
10	281	1220	e563	e490	e574	e605	51600	29900	11300	6590	2050	839
11	284	1270	e539	e492	e560	e610	54000	27400	10900	6190	1870	765
12	306	1370	e515	e492	e540	e625	58100	25400	10500	5740	1690	762
13	297	1420	e495	e492	e538	e645	60900	23600	12500	5470	1530	743
14	304	1390	e480	e492	e537	e675	64000	22200	18100	5290	1450	715
15	298	1360	e470	e487	e520	e700	69400	21000	21900	4980	1400	708
16	291	1450	e460	e485	e510	e715	73200	19900	27600	4890	1380	680
17	291	1350	e450	e481	e495	e740	72200	18900	33500	4660	1320	667
18	291	1190	e440	e476	e490	e770	68600	17900	34400	4510	1350	672
19	297	1160	e430	e468	e489	e810	63500	16900	31100	4170	1340	676
20	353	873	e420	e460	e480	e890	58100	16300	26800	4120	1300	690
21	325	736	e410	e462	e478	e914	53300	18200	23600	4220	1240	712
22	315	e693	e398	e466	e475	e943	49600	20500	21100	4590	1200	781
23	328	e693	e394	e470	e460	e959	51000	21200	19300	5390	1170	860
24	355	e709	e393	e466	e420	e963	56000	21300	17800	6990	1140	924
25	363	e724	e393	e460	e410	e963	63300	21000	16500	7120	1120	972
26	344	e735	e407	e458	e410	e956	69700	21200	15200	6880	1060	809
27	344	e750	e418	e458	e410	e1010	68400	21400	14200	6150	1080	779
28	339	e759	e428	e458	e410	e1290	62700	20900	13200	5580	942	767
29	343	e768	e436	e464	---	e1930	56500	20200	12500	5060	869	738
30	370	e762	e443	e474	---	3110	51100	19400	11600	4430	936	713
31	388	---	e441	e472	---	4640	---	18200	---	4080	926	---
TOTAL	9863	27516	15912	14575	13745	30144	1587400	797900	522800	198610	54203	23081
MEAN	318	917	513	470	491	972	52910	25740	17430	6407	1748	769
MAX	388	1450	747	492	582	4640	73200	46400	34400	11000	3760	972
MIN	281	409	393	428	410	425	7900	16300	10500	4080	869	667
AC-FT	19560	54580	31560	28910	27260	59790	3149000	1583000	1037000	393900	107500	45780
CFSM	.02	.06	.03	.03	.03	.07	3.55	1.73	1.17	.43	.12	.05
IN.	.02	.07	.04	.04	.03	.08	3.96	1.99	1.31	.50	.14	.06

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1627	1576	1038	647	798	4526	9843	6040	6301	4616	2358	1634
MAX	14600	8569	4770	3009	4505	18230	52910	25740	34230	33130	23520	11070
(WY)	1969	1996	1983	1992	1983	1983	2001	2001	1993	1993	1993	1993
MIN	66.1	83.5	80.9	61.5	58.4	132	609	101	194	58.3	37.4	56.6
(WY)	1934	1934	1934	1940	1940	1934	1931	1934	1934	1934	1934	1934

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1903 - 2001

ANNUAL TOTAL		894125		3295749								
ANNUAL MEAN		2443		9029						3582a		
HIGHEST ANNUAL MEAN										14890		1993
LOWEST ANNUAL MEAN										136		1934
HIGHEST DAILY MEAN			16600	Jun 5		73200	Apr 16		92700		Apr 10	1965
LOWEST DAILY MEAN			281	Oct 10		281	Oct 10		31		Aug 3	1934
ANNUAL SEVEN-DAY MINIMUM			292	Oct 7		292	Oct 7		33		Jul 29	1934
MAXIMUM PEAK FLOW						73700	Apr 16		94100		Apr 10	1965
MAXIMUM PEAK STAGE						26.96	Apr 16		30.11		Jun 21	1993
INSTANTANEOUS LOW FLOW						278	Oct 10		26b		Aug 4	1934
ANNUAL RUNOFF (AC-FT)		1773000		6537000					2595000			
ANNUAL RUNOFF (CFSM)		.16		.61					.24			
ANNUAL RUNOFF (INCHES)		2.23		8.23					3.27			
10 PERCENT EXCEEDS		6850		32600					9320			
50 PERCENT EXCEEDS		1200		860					1280			
90 PERCENT EXCEEDS		362		408					190			

a Median of annual mean discharges is 2900 ft³/s.
 b Minimum observed.
 e Estimated.

