

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05457000 CEDAR RIVER NEAR AUSTIN, MN

LOCATION.--Lat 43°38'11", long 92°58'26", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec. 15, T.102 N., R.18 W., Mower County, Hydrologic Unit 07080201, on left bank 200 ft upstream from abandoned powerhouse, 500 ft downstream from highway bridge, 1.1 mi downstream from Turtle Creek, and 1.1 mi south of Austin.

DRAINAGE AREA.--399 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1909 to September 1914, October 1944 to current year.

REVISED RECORDS.--WSP 1145: 1945, 1948.

GAGE.--Water-stage recorder. Datum of gage is 1,162.10 ft above sea level. May 1909 to April 1912, nonrecording gage in tailwater of power plant 200 ft downstream at datum 3.1 ft lower. May 1912 to September 1914, nonrecording gage on highway bridge 500 ft downstream at datum 1.1 ft lower.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s (revised) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 7	0030	1,740	6.61	May 18	1100	4,450	11.24
Apr 12	0230	3,280	9.38	May 21	1000	4,400	11.16
Apr 23	1230	2,530	8.10	Jul 19	0730	*6,110	*14.54
May 13	1800	3,030	8.96	Jul 20	2330	4,430	12.55

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	544	193	82	79	198	273	509	492	238	1010	189
2	95	468	189	e82	82	246	269	469	459	234	682	181
3	120	407	188	e80	87	198	371	439	410	317	497	171
4	112	364	184	e78	77	232	587	431	401	425	437	157
5	179	333	181	e78	84	215	664	445	429	339	391	149
6	202	308	176	e78	82	174	1440	422	1170	292	340	143
7	205	286	168	e79	80	155	1660	403	1210	254	308	144
8	187	271	161	e80	93	128	1340	373	865	436	286	163
9	172	271	154	e76	112	115	2270	341	768	684	292	146
10	162	348	149	e79	144	166	3010	321	1090	406	376	136
11	146	491	144	e80	404	180	2960	350	1040	300	356	124
12	140	489	145	e93	397	150	3010	1270	989	261	314	148
13	130	454	141	e90	439	167	2030	2920	774	232	289	136
14	134	431	139	88	392	208	1480	2630	642	212	264	125
15	296	392	140	77	418	311	1180	1890	551	189	239	119
16	595	373	139	77	649	529	1060	1480	496	226	229	114
17	640	341	136	76	582	745	967	2430	449	290	211	110
18	656	319	136	77	478	607	825	4200	401	1180	255	107
19	524	314	106	69	351	459	722	2790	407	4750	653	107
20	405	286	e95	67	300	378	645	2480	374	3450	451	105
21	342	265	e86	73	264	349	594	4250	348	3560	339	101
22	297	266	e80	76	242	311	1390	3120	325	2080	511	100
23	272	261	e85	74	222	283	2460	2070	344	1430	669	103
24	252	238	e88	73	211	267	2020	1550	355	1060	564	98
25	230	236	92	74	194	243	1410	1210	317	803	448	96
26	219	226	e90	76	199	228	1080	977	289	678	372	94
27	652	215	e90	76	200	222	878	818	273	648	320	94
28	1290	211	e92	76	200	267	747	718	265	623	279	92
29	1090	209	e93	75	---	288	636	631	250	562	248	88
30	860	209	e90	74	---	275	559	558	238	505	222	88
31	668	---	e86	73	---	271	---	517	---	876	203	---
TOTAL	11367	9826	4036	2406	7062	8565	38537	43012	16421	27540	12055	3728
MEAN	367	328	130	77.6	252	276	1285	1387	547	888	389	124
MAX	1290	544	193	93	649	745	3010	4250	1210	4750	1010	189
MIN	95	209	80	67	77	115	269	321	238	189	203	88
AC-FT	22550	19490	8010	4770	14010	16990	76440	85310	32570	54630	23910	7390
CFSM	.92	.82	.33	.19	.63	.69	3.22	3.48	1.37	2.23	.97	.31
IN.	1.06	.92	.38	.22	.66	.80	3.59	4.01	1.53	2.57	1.12	.35

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	166	161	107	74.9	109	484	525	318	296	263	188	148
MAX	884	997	431	261	701	1428	2011	1387	1624	1456	1720	734
(WY)	1974	1910	1992	1973	1984	1973	1993	1999	1993	1978	1993	1993
MIN	37.3	35.7	26.6	26.5	25.0	53.3	52.9	67.9	48.9	22.6	32.3	30.9
(WY)	1959	1959	1913	1913	1913	1968	1911	1910	1950	1911	1948	1911

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1909 - 1999
ANNUAL TOTAL	126967	184555	
ANNUAL MEAN	348	506	237 <sup>a</sup>
HIGHEST ANNUAL MEAN			824 1993
LOWEST ANNUAL MEAN			58.1 1977
HIGHEST DAILY MEAN	3800	4750	8720 Mar 29 1962
LOWEST DAILY MEAN	50	67	.00 <sup>b</sup> Jan 15 1911
ANNUAL SEVEN-DAY MINIMUM	55	72	13 Sep 1 1912
INSTANTANEOUS PEAK FLOW		5940	12400 Jul 17 1978
INSTANTANEOUS PEAK STAGE		14.54	20.35 <sup>c</sup> Jul 17 1978
INSTANTANEOUS LOW FLOW		43 <sup>d</sup>	.00 Jan 15 1911
ANNUAL RUNOFF (AC-FT)	251800	366100	172000
ANNUAL RUNOFF (CFSM)	.87	1.27	.59
ANNUAL RUNOFF (INCHES)	11.84	17.21	8.08
10 PERCENT EXCEEDS	761	1170	495
50 PERCENT EXCEEDS	209	275	96
90 PERCENT EXCEEDS	72	86	44

- a Median of annual mean discharges is 220 ft<sup>3</sup>/s.
- b Occurred on several days in 1911, result of regulation.
- c From floodmark.
- d Result of freezeup.

