

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05457000 CEDAR RIVER NEAR AUSTIN, MN

LOCATION.--Lat 43°38'11", long 92°58'26", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi².

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 (NGVD of 1929). 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. Some regulation at lower flows by wastewater treatment plant upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 7	1930	7,440	15.44	May 3	2330	3,580	9.84
Apr 12	1000	*7,710	*15.77	Jun 15	0500	4,960	12.01

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	77	155	164	97	99	93	1280	554	586	297	122	90
2	79	272	148	110	e98	103	1860	2030	608	273	120	81
3	78	261	128	100	96	111	2640	3220	510	261	113	77
4	82	202	162	103	94	108	3230	3210	446	245	107	72
5	83	176	113	102	95	113	4750	2190	476	224	99	71
6	81	272	141	98	97	111	5000	1670	509	208	96	73
7	77	585	137	98	96	110	6470	1850	524	202	91	84
8	79	560	136	98	96	110	5560	1530	521	196	87	120
9	81	422	128	99	89	108	2920	1180	461	187	86	99
10	86	335	122	97	85	109	2160	1050	419	176	81	91
11	84	287	e121	99	85	107	2930	1080	387	165	81	82
12	85	278	e120	102	86	119	7110	932	362	154	78	79
13	87	288	e119	103	88	121	4030	799	978	143	76	75
14	105	287	118	102	87	127	2790	712	3710	135	74	75
15	82	263	117	104	87	132	2340	639	4650	127	82	80
16	81	261	114	98	83	133	1760	574	3270	123	83	78
17	91	238	e114	97	e81	134	1370	520	2290	121	79	80
18	85	217	e125	99	79	136	1150	474	1730	115	124	79
19	82	210	e122	94	81	146	1000	438	1440	162	96	79
20	82	167	e120	94	80	161	891	422	1160	197	89	85
21	80	205	e115	108	e79	188	1040	519	941	161	84	87
22	84	188	e111	114	78	221	1220	492	777	150	87	133
23	107	180	e97	92	77	262	1180	483	664	254	84	439
24	106	179	e95	90	84	252	1050	492	576	e320	79	319
25	109	179	e100	90	113	274	910	534	514	e260	101	215
26	111	180	e115	88	93	255	801	840	460	e210	88	170
27	107	177	e113	84	90	250	704	1120	415	e170	82	141
28	95	173	110	88	91	250	614	994	380	156	77	123
29	88	172	103	93	---	259	562	817	352	140	75	112
30	95	164	99	104	---	336	528	678	322	132	132	106
31	94	---	97	101	---	765	---	589	---	124	111	---
TOTAL	2743	7533	3724	3046	2487	5704	69850	32632	30438	5788	2864	3495
MEAN	88.5	251	120	98.3	88.8	184	2328	1053	1015	187	92.4	116
MAX	111	585	164	114	113	765	7110	3220	4650	320	132	439
MIN	77	155	95	84	77	93	528	422	322	115	74	71
AC-FT	5440	14940	7390	6040	4930	11310	138500	64730	60370	11480	5680	6930
CFSM	.22	.63	.30	.25	.22	.46	5.84	2.64	2.54	.47	.23	.29
IN.	.26	.70	.35	.28	.23	.53	6.51	3.04	2.84	.54	.27	.33

05457000 CEDAR RIVER NEAR AUSTIN, MN--Continued

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	164	162	107	75.1	110	474	547	337	326	278	186	147
MAX	884	997	431	261	701	1428	2328	1387	1624	1456	1720	734
(WY)	1974	1910	1992	1973	1984	1973	2001	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1909 - 2001	
ANNUAL TOTAL	143792		170304			
ANNUAL MEAN	393		467		243a	
HIGHEST ANNUAL MEAN					824	
LOWEST ANNUAL MEAN					58.1	
HIGHEST DAILY MEAN	11100		7110		11100	
LOWEST DAILY MEAN	56		71		.00b	
ANNUAL SEVEN-DAY MINIMUM	57		78		13	
MAXIMUM PEAK FLOW			7710		15300	
MAXIMUM PEAK STAGE			15.77		21.49c	
INSTANTANEOUS LOW FLOW			58d		.00b	
ANNUAL RUNOFF (AC-FT)	285200		337800		176300	
ANNUAL RUNOFF (CFSM)	.98		1.17		.61	
ANNUAL RUNOFF (INCHES)	13.41		15.88		8.29	
10 PERCENT EXCEEDS	727		1100		507	
50 PERCENT EXCEEDS	124		124		97	
90 PERCENT EXCEEDS	63		81		45	

- a Median of annual mean discharges is 226 ft³/s.
- b Occurred on several days in 1911, result of regulation.
- c From floodmark.
- d Due in part to regulation.
- e Estimated.

