

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)
Jun 5	1030	*1,650	*6.44	No other peak greater than base discharge.			

Minimum discharge, 56 ft³/s, Sept. 13, gage height, 2.25 ft.

DISCHARGE, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	88	169	84	75	93	99	404	128	200	82	68
2	100	86	152	86	79	87	105	355	122	179	73	66
3	98	81	148	84	77	82	93	308	216	164	71	65
4	95	80	144	83	74	e80	95	278	925	148	188	62
5	92	80	173	85	76	77	97	253	1570	133	276	61
6	86	82	182	87	71	79	89	258	1160	123	361	67
7	84	81	189	e85	74	79	91	235	761	113	254	74
8	86	82	182	85	80	108	102	219	546	111	181	65
9	94	78	166	89	98	127	105	219	434	105	141	63
10	107	79	168	94	128	106	100	197	371	168	119	69
11	97	75	158	92	114	120	203	201	430	229	103	61
12	95	76	159	91	105	167	448	206	529	172	116	60
13	120	89	158	94	87	330	473	195	441	135	125	59
14	120	86	149	106	94	301	398	186	371	115	114	83
15	128	83	142	97	97	220	341	178	325	106	104	73
16	118	81	140	89	97	159	296	178	292	99	90	72
17	110	79	138	83	90	200	300	168	270	94	95	68
18	110	80	138	82	94	189	281	158	249	89	79	69
19	107	85	131	81	129	188	252	149	231	88	80	72
20	103	79	116	80	202	206	219	143	223	87	75	70
21	100	79	122	84	174	172	225	136	349	93	84	68
22	97	80	145	86	127	116	225	127	823	186	108	66
23	98	81	99	86	137	156	215	131	611	187	156	64
24	92	137	117	82	129	147	222	122	514	130	133	62
25	98	145	148	81	121	109	208	123	390	118	111	78
26	89	150	124	85	82	117	188	122	480	111	101	87
27	85	166	103	87	104	112	217	120	419	127	92	90
28	81	193	101	92	108	114	410	139	309	100	85	87
29	88	186	103	86	---	118	567	199	258	105	81	89
30	86	179	88	80	---	111	490	165	224	96	77	82
31	86	---	e86	82	---	108	---	141	---	83	72	---
TOTAL	3055	3026	4338	2688	2923	4378	7154	6013	13971	3994	3827	2120
MEAN	98.55	100.9	139.9	86.71	104.4	141.2	238.5	194.0	465.7	128.8	123.5	70.67
MAX	128	193	189	106	202	330	567	404	1570	229	361	90
MIN	81	75	86	80	71	77	89	120	122	83	71	59
AC-FT	6060	6000	8600	5330	5800	8680	14190	11930	27710	7920	7590	4210
CFSM	0.25	0.25	0.35	0.22	0.26	0.35	0.60	0.49	1.17	0.32	0.31	0.18
IN.	0.28	0.28	0.40	0.25	0.27	0.41	0.67	0.56	1.30	0.37	0.36	0.20

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	163.0	160.7	107.5	75.33	109.7	468.6	542.4	334.3	328.2	276.1	185.4	145.3
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1909 - 2002

ANNUAL TOTAL	166723	57487	
ANNUAL MEAN	456.8	157.5	242.0a
HIGHEST ANNUAL MEAN			824 1993
LOWEST ANNUAL MEAN			58.1 1977
HIGHEST DAILY MEAN	7110	Apr 12	1570 Jun 5 11100 Jul 10 2000
LOWEST DAILY MEAN	71	Sep 5	59 Sep 13 0.00b Jan 15 1911
ANNUAL SEVEN-DAY MINIMUM	78	Sep 12	64 Sep 7 13 Sep 1 1912
MAXIMUM PEAK FLOW			1650 Jun 5 15300 Jul 10 2000
MAXIMUM PEAK STAGE			6.44 Jun 5 21.49c Jul 10 2000
INSTANTANEOUS LOW FLOW			56 Sep 13 0.00b Jan 15 1911
ANNUAL RUNOFF (AC-FT)	330700	114000	175300
ANNUAL RUNOFF (CFM)	1.14	0.39	0.61
ANNUAL RUNOFF (INCHES)	15.54	5.36	8.24
10 PERCENT EXCEEDS	1100	285	502
50 PERCENT EXCEEDS	120	108	97
90 PERCENT EXCEEDS	81	77	45

- a Median of annual mean discharges is 224 ft³/s.
- b Occurred on several days in 1911, result of regulation.
- c From floodmark.
- e Estimated.

