

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05457000 CEDAR RIVER NEAR AUSTIN, MN

LOCATION.--Lat 43°38'11", long 92°58'26", in NE¹/₄SE¹/₄ 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.

PEAK DISCHARGES 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)
May 18	1900	7,890	16.00	Jun 16	1300	2,180	7.48
Jun 1	1400	8,530	16.75	Jun 21	0330	2,210	7.54
Jun 5	1400	2,970	8.87	Jul 10	1713	*15,300	*21.49

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	96	80	69	58	227	99	84	6370	341	178	161
2	99	90	89	77	58	193	96	80	4660	e370	169	160
3	92	86	86	75	60	177	100	80	2780	e420	156	154
4	90	87	85	67	59	168	96	80	2160	459	148	139
5	94	90	80	68	59	159	92	73	2870	519	206	131
6	89	86	73	68	59	153	94	65	2490	841	189	123
7	87	84	76	66	59	154	92	63	1700	751	165	122
8	95	89	84	66	60	156	88	74	1220	504	266	115
9	92	88	78	67	62	180	82	72	910	2500	257	111
10	91	89	72	73	62	169	79	65	722	11100	198	108
11	85	84	74	71	60	153	84	73	645	8220	172	106
12	86	86	77	70	61	145	80	77	551	e3490	156	101
13	88	86	73	65	60	147	80	67	535	2180	149	96
14	82	84	76	64	59	144	81	60	925	1600	138	101
15	88	82	82	66	61	146	82	57	1040	1140	132	94
16	90	82	62	63	59	135	83	66	2020	858	124	92
17	83	83	68	63	61	127	84	200	1550	687	254	90
18	87	86	67	63	62	131	82	5380	994	566	294	88
19	92	88	66	62	62	132	92	5730	742	493	222	89
20	89	82	68	e73	60	130	120	2600	1330	438	185	90
21	96	80	e64	64	64	128	102	1620	1990	386	171	86
22	100	84	62	62	78	125	91	1120	1380	340	190	91
23	91	112	61	59	213	122	87	835	885	305	213	94
24	89	103	61	e59	534	133	87	644	693	287	206	91
25	93	96	61	e59	586	134	84	507	578	277	180	89
26	93	93	63	e58	740	123	84	429	635	258	177	87
27	90	90	66	57	471	124	85	445	567	242	242	86
28	93	81	67	56	302	117	85	486	479	220	206	83
29	91	79	70	56	261	111	79	503	409	211	179	82
30	118	78	71	56	---	107	79	497	345	195	161	82
31	99	---	71	59	---	104	---	568	---	188	152	---
TOTAL	2841	2624	2233	2001	4450	4454	2649	22700	44175	40386	5835	3142
MEAN	91.6	87.5	72.0	64.5	153	144	88.3	732	1472	1303	188	105
MAX	118	112	89	77	740	227	120	5730	6370	11100	294	161
MIN	82	78	61	56	58	104	79	57	345	188	124	82
AC-FT	5640	5200	4430	3970	8830	8830	5250	45030	87620	80110	11570	6230
CFSM	.23	.22	.18	.16	.38	.36	.22	1.84	3.69	3.27	.47	.26
IN.	.26	.24	.21	.19	.41	.42	.25	2.12	4.12	3.77	.54	.29

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	165	160	107	74.8	110	479	518	325	315	280	188	147
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1909 - 2000	
ANNUAL TOTAL	167024		137490			
ANNUAL MEAN	458		376		240 ^a	
HIGHEST ANNUAL MEAN					824	
LOWEST ANNUAL MEAN					58.1	
HIGHEST DAILY MEAN	4750		Jul 19		11100	
LOWEST DAILY MEAN	61		Dec 23		56	
ANNUAL SEVEN-DAY MINIMUM	63		Dec 21		57	
INSTANTANEOUS PEAK FLOW					15300	
INSTANTANEOUS PEAK STAGE					21.49 ^c	
INSTANTANEOUS LOW FLOW					43	
ANNUAL RUNOFF (AC-FT)	331300		272700		173600	
ANNUAL RUNOFF (CFSM)	1.15		.94		.60	
ANNUAL RUNOFF (INCHES)	15.57		12.82		8.16	
10 PERCENT EXCEEDS	1120		727		500	
50 PERCENT EXCEEDS	212		92		96	
90 PERCENT EXCEEDS	76		62		45	

^a Median of annual mean discharges is 220 ft³/s.
^b Occurred on several days in 1911, result of regulation.
^c From floodmark.
^e Estimated.

