

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)
May 23	2100	1,530	6.41	Jul 6	2330	1,530	6.19
Jun 10	2300	4,270	10.95	Sep 16	--	*20,000	*23.26

Minimum discharge, 40 ft³/s, Jan. 18, gage height, 2.15 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	60	54	54	e43	395	151	107	827	183	356	202
2	54	61	54	53	e45	1,070	133	98	618	174	379	186
3	57	72	56	52	e46	531	121	92	502	195	374	174
4	54	77	56	49	e47	295	106	90	427	309	605	161
5	52	69	58	e47	47	689	103	83	382	467	651	153
6	55	63	57	e46	50	1,110	102	80	349	1,150	467	158
7	60	60	55	e45	49	995	97	74	312	1,380	359	147
8	59	58	61	e46	48	504	95	100	296	940	316	143
9	60	58	63	47	48	501	93	79	740	662	412	139
10	60	62	54	48	49	443	90	139	2,800	503	422	127
11	71	64	e50	49	49	358	87	114	3,130	643	310	126
12	69	68	51	51	49	309	86	133	2,340	1,150	266	119
13	63	61	47	52	49	270	86	649	2,450	861	234	114
14	65	63	47	53	48	206	84	874	1,460	607	209	e230
15	64	65	50	53	48	151	84	515	970	459	187	e9,220
16	62	62	52	53	50	145	84	322	810	383	230	e15,000
17	61	78	51	53	48	134	82	255	950	351	376	e5,140
18	63	81	51	e50	50	135	83	208	900	287	485	3,610
19	60	67	51	e50	51	134	115	175	674	256	723	2,900
20	63	62	50	50	57	168	100	166	493	234	617	2,420
21	64	62	50	49	55	133	111	291	444	423	430	2,070
22	62	60	51	e47	58	146	110	964	391	392	420	1,830
23	63	62	53	e46	55	149	101	1,400	344	293	508	e1,480
24	63	53	51	45	52	136	97	1,370	309	236	426	1,330
25	64	56	49	45	51	155	169	992	284	206	364	1,150
26	60	57	49	e45	53	180	186	717	259	190	321	e940
27	62	57	56	e45	57	206	164	569	235	178	287	e800
28	68	55	61	e45	65	290	145	458	226	163	258	e660
29	65	54	61	e44	97	301	134	478	210	190	232	e580
30	66	55	59	e44	---	225	117	1,020	196	187	224	e540
31	65	---	55	e44	---	179	---	1,170	---	237	213	---
TOTAL	1,910	1,882	1,663	1,500	1,514	10,643	3,316	13,782	24,328	13,889	11,661	51,849
MEAN	61.6	62.7	53.6	48.4	52.2	343	111	445	811	448	376	1,728
MAX	71	81	63	54	97	1,110	186	1,400	3,130	1,380	723	15,000
MIN	52	53	47	44	43	133	82	74	196	163	187	114
AC-FT	3,790	3,730	3,300	2,980	3,000	21,110	6,580	27,340	48,250	27,550	23,130	102,800
CFSM	0.15	0.16	0.13	0.12	0.13	0.86	0.28	1.11	2.03	1.12	0.94	4.33
IN.	0.18	0.18	0.16	0.14	0.14	0.99	0.31	1.28	2.27	1.29	1.09	4.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2004, BY WATER YEAR (WY)

MEAN	163	158	106	74.7	108	462	531	344	336	277	186	168
MAX	884	997	431	261	701	1,428	2,328	1,387	1,624	1,456	1,720	1,728
(WY)	(1974)	(1910)	(1992)	(1973)	(1984)	(1973)	(2001)	(1999)	(1993)	(1978)	(1993)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1909 - 2004	
ANNUAL TOTAL	66,960		137,937		a243	
ANNUAL MEAN	183		377		824	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					58.1	
HIGHEST DAILY MEAN	2,760	May 12	15,000	Sep 16	15,000	Sep 16, 2004
LOWEST DAILY MEAN	47	Dec 13	43	Feb 1	b0.00	Jan 15, 1911
ANNUAL SEVEN-DAY MINIMUM	49	Jan 24	44	Jan 26	13	Sep 1, 1912
MAXIMUM PEAK FLOW			20,000	Sep 16	20,000	Sep 16, 2004
MAXIMUM PEAK STAGE			c23.26	Sep 16	c23.26	Sep 16, 2004
INSTANTANEOUS LOW FLOW			d40	Jan 18	b0.00	Jan 15, 1911
ANNUAL RUNOFF (AC-FT)	132,800		273,600		176,400	
ANNUAL RUNOFF (CFSM)	0.460		0.945		0.610	
ANNUAL RUNOFF (INCHES)	6.24		12.86		8.29	
10 PERCENT EXCEEDS	369		815		504	
50 PERCENT EXCEEDS	65		114		98	
90 PERCENT EXCEEDS	53		49		45	

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

