

05457000 CEDAR RIVER NEAR AUSTIN, MN

LOCATION.--Lat 43°38'11", long 92°58'26", in NE¼SE¼ 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 (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 ft<sup>3</sup>/s and maximum (\*):

	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb 15	0615	1,750	6.40	1000	*3,130	*8.69
Mar 29	0900	2,490	7.65			

Minimum discharge, 70 ft<sup>3</sup>/s, Mar. 1, gage height, 2.33 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e560	247	197	141	90	98	1,610	234	264	191	104	92
2	e800	255	199	127	94	115	847	226	250	169	100	87
3	769	262	189	120	100	103	615	214	237	166	99	85
4	641	264	191	113	123	120	531	204	239	156	99	e144
5	537	255	188	106	225	138	500	201	237	142	91	e92
6	478	250	193	e105	715	156	477	219	222	129	87	e88
7	430	238	207	e104	448	307	466	244	205	121	85	e88
8	403	218	228	102	286	285	438	258	276	117	85	e90
9	372	210	249	100	216	182	404	260	439	108	95	e90
10	336	214	271	e100	e185	179	372	253	442	97	115	e88
11	315	205	273	98	162	156	356	253	393	92	172	e86
12	302	197	286	101	162	125	618	284	348	88	137	e85
13	298	188	233	98	304	123	796	578	309	82	104	e84
14	290	179	224	e97	1,140	134	632	655	291	86	90	e84
15	285	177	262	e98	1,580	116	510	557	272	91	87	e83
16	275	181	243	e93	760	123	436	477	243	89	85	e82
17	258	181	214	e89	376	117	414	426	219	95	84	e82
18	246	178	210	e87	296	111	414	464	198	180	152	e82
19	238	204	e146	e88	226	92	463	987	181	122	107	e90
20	227	229	e165	91	193	127	623	957	231	127	92	e85
21	220	238	e175	91	176	124	646	735	333	162	82	e82
22	215	240	e165	e92	164	126	568	627	289	166	79	e83
23	231	242	e135	e90	144	131	472	528	241	133	79	80
24	224	231	e130	e89	140	146	393	451	212	122	77	101
25	214	218	e125	88	133	177	356	401	192	140	76	1,460
26	205	213	e123	89	118	220	334	389	239	195	130	2,970
27	205	234	122	87	130	450	305	363	339	192	155	2,030
28	206	220	121	86	110	1,680	277	340	286	159	127	1,260
29	228	204	122	86	---	e2,250	261	318	247	132	104	848
30	248	187	136	85	---	1,270	247	295	221	118	98	647
31	247	---	154	88	---	1,750	---	278	---	110	91	---
TOTAL	10,503	6,559	5,876	3,029	8,796	11,231	15,381	12,676	8,095	4,077	3,168	11,348
MEAN	339	219	190	97.7	314	362	513	409	270	132	102	378
MAX	800	264	286	141	1,580	2,250	1,610	987	442	195	172	2,970
MIN	205	177	121	85	90	92	247	201	181	82	76	80
AC-FT	20,830	13,010	11,660	6,010	17,450	22,280	30,510	25,140	16,060	8,090	6,280	22,510
CFSM	0.85	0.55	0.48	0.24	0.79	0.91	1.28	1.02	0.68	0.33	0.26	0.95
IN.	0.98	0.61	0.55	0.28	0.82	1.05	1.43	1.18	0.75	0.38	0.30	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2005, BY WATER YEAR (WY)

MEAN	165	159	107	75.0	111	460	531	345	335	275	185	171
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)

05457000 CEDAR RIVER NEAR AUSTIN, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1909 - 2005	
ANNUAL TOTAL	155,420		100,739			
ANNUAL MEAN	425		276		a244	
HIGHEST ANNUAL MEAN					824 1993	
LOWEST ANNUAL MEAN					58.1 1977	
HIGHEST DAILY MEAN	15,000	Sep 16	2,970	Sep 26	15,000	Sep 16, 2004
LOWEST DAILY MEAN	43	Feb 1	76	Aug 25	b0.00	Jan 15, 1911
ANNUAL SEVEN-DAY MINIMUM	44	Jan 26	83	Sep 12	13	Sep 1, 1912
MAXIMUM PEAK FLOW			3,130	Sep 26	20,000	Sep 16, 2004
MAXIMUM PEAK STAGE			8.69	Sep 26	c23.26	Sep 16, 2004
INSTANTANEOUS LOW FLOW			d70	Mar 1	b0.00	Jan 15, 1911
ANNUAL RUNOFF (AC-FT)	308,300		199,800		176,700	
ANNUAL RUNOFF (CFSM)	1.06		0.692		0.611	
ANNUAL RUNOFF (INCHES)	14.49		9.39		8.31	
10 PERCENT EXCEEDS	815		529		505	
50 PERCENT EXCEEDS	213		197		98	
90 PERCENT EXCEEDS	50		88		45	

- a Median of annual mean discharges is 230 ft<sup>3</sup>/s.
- b Occurred on several days in 1911, result of regulation.
- c From floodmark.
- d Due in part to regulation.
- e Estimated.

