

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 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 12	0530	*2,820	*8.62	No other peak greater than base discharge.			

Minimum discharge, 40 ft³/s, Feb. 5, gage height, 2.17 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	128	88	71	53	60	225	219	224	359	75	58
2	89	124	93	69	58	59	202	203	212	310	71	57
3	85	122	80	67	62	63	188	189	207	274	71	59
4	381	128	84	67	60	59	179	242	201	268	69	57
5	719	127	79	68	53	e57	161	864	194	245	72	56
6	645	127	78	69	56	57	148	1,200	230	248	71	55
7	539	121	76	71	e56	57	151	1,010	311	304	69	55
8	452	122	74	74	55	57	156	898	482	272	66	52
9	368	123	76	72	54	e58	156	1,340	546	264	63	52
10	318	121	74	60	54	e61	164	1,550	533	282	61	51
11	309	121	78	e65	e54	63	195	2,220	512	287	64	55
12	305	119	81	e62	e54	67	205	2,760	446	240	64	71
13	281	116	83	e58	53	68	193	2,040	390	207	63	63
14	256	116	79	57	56	88	190	1,560	340	193	62	60
15	239	113	78	58	56	156	193	1,710	302	227	61	55
16	222	107	78	56	55	250	e230	1,210	278	216	59	56
17	210	102	80	55	57	204	e300	910	257	179	54	54
18	202	105	113	53	57	150	326	739	240	163	55	79
19	191	106	99	e53	59	133	332	637	222	144	54	71
20	179	105	88	e53	88	134	370	555	198	135	56	59
21	174	105	77	e53	128	127	437	482	181	131	56	55
22	167	102	80	e50	130	107	425	432	207	123	57	56
23	159	102	71	e55	97	99	369	396	202	115	55	54
24	155	97	77	e48	87	107	330	362	216	107	54	63
25	152	88	71	e48	e72	106	304	334	378	100	155	57
26	146	92	71	e48	e62	97	277	311	731	98	108	58
27	140	90	72	e49	61	188	255	291	686	92	75	60
28	143	91	72	50	61	629	239	280	600	88	65	56
29	138	95	73	50	---	578	222	267	520	82	64	55
30	136	79	77	51	---	360	222	272	429	79	58	56
31	131	---	73	52	---	259	---	248	---	77	56	---
TOTAL	7,713	3,294	2,473	1,812	1,848	4,558	7,344	25,731	10,475	5,909	2,083	1,745
MEAN	249	110	79.8	58.5	66.0	147	245	830	349	191	67.2	58.2
MAX	719	128	113	74	130	629	437	2,760	731	359	155	79
MIN	82	79	71	48	53	57	148	189	181	77	54	51
AC-FT	15,300	6,530	4,910	3,590	3,670	9,040	14,570	51,040	20,780	11,720	4,130	3,460
CFSM	0.62	0.28	0.20	0.15	0.17	0.37	0.61	2.08	0.88	0.48	0.17	0.15
IN.	0.72	0.31	0.23	0.17	0.17	0.42	0.68	2.40	0.98	0.55	0.19	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

MEAN	164	160	107	75.1	109	464	538	342	328	275	184	144
MAX	884	997	431	261	701	1,428	2,328	1,387	1,624	1,456	1,720	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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1909 - 2003	
ANNUAL TOTAL	60,548		74,985		a241	
ANNUAL MEAN	166		205		824	
HIGHEST ANNUAL MEAN					58.1	
LOWEST ANNUAL MEAN					13	
HIGHEST DAILY MEAN	1,570	Jun 5	2,760	May 12	11,100	Jul 10, 2000
LOWEST DAILY MEAN	59	Sep 13	48	Jan 24	b0.00	Jan 15, 1911
ANNUAL SEVEN-DAY MINIMUM	64	Sep 7	49	Jan 24	13	Sep 1, 1912
MAXIMUM PEAK FLOW			2,820	May 12	15,300	Jul 10, 2000
MAXIMUM PEAK STAGE			8.62	May 12	c21.49	Jul 10, 2000
INSTANTANEOUS LOW FLOW			d40	Feb 5	b0.00	Jan 15, 1911
ANNUAL RUNOFF (AC-FT)	120,100		148,700		174,900	
ANNUAL RUNOFF (CFSM)	0.42		0.51		0.60	
ANNUAL RUNOFF (INCHES)	5.65		6.99		8.22	
10 PERCENT EXCEEDS	321		408		500	
50 PERCENT EXCEEDS	111		105		97	
90 PERCENT EXCEEDS	74		55		45	

- a Median of annual mean discharges is 223 ft³/s.
- b Occurred on several days in 1911, result of regulation.
- c From floodmark.
- d Result of freezeup.
- e Estimated.

