05457000 CEDAR RIVER NEAR AUSTIN, MN

Iowa Basin
Upper Cedar Subbasin

LOCATION.--Lat 43°38′14″, long 92°58′28″ referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.15, T.102 N., R.18 W., Mower County, MN, Hydrologic Unit 07080201, at left downstream abutment of highway bridge, 1.0 mi downstream from Turtle Creek, and 1.0 mi south of Austin.

DRAINAGE AREA.--399 mi^2.

SURFACE-WATER RECORDS

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^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 11	0330	1,900	6.59
Jun 9	0200	2,520	7.90
Jun 18	2200	*3,030	*8.75

Minimum discharge, 51 ft^3/s, Sept. 13, gage height, 2.44 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	58	69	68	61	60	e88	152	303	194	218	86	69
2	59	67	70	63	60	e87	139	261	179	200	76	68
3	59	69	72	60	e55	89	135	231	164	183	73	68
4	59	70	68	e60	e54	95	129	210	154	172	75	65
5	62	72	68	e59	58	119	133	210	144	163	73	62
6	61	125	68	59	59	275	134	278	158	155	72	58
7	111	117	67	57	62	361	123	482	155	146	79	57
8	101	108	67	59	61	289	119	481	1,310	171	105	58
9	84	94	69	57	72	207	115	396	1,950	142	91	58
10	74	86	66	56	699	215	113	372	1,060	158	115	58
11	72	93	65	56	1,650	e174	109	334	728	138	104	57
12	67	103	65	e56	793	e167	104	290	553	127	86	57
13	67	103	65	e57	363	e168	104	290	479	121	81	54
14	69	108	68	e56	e238	167	106	269	416	119	81	53
15	83	105	e66	e54	e204	221	103	244	364	119	80	55
16	72	96	e66	e54	175	300	101	236	386	111	112	56
17	71	92	e65	e60	150	406	101	208	1,480	106	86	57
18	70	81	64	62	138	347	103	195	2,380	103	81	59
19	71	82	66	63	e123	251	109	189	2,250	99	86	58
20	72	83	62	61	114	200	115	174	1,290	97	125	56
21	69	72	e63	61	106	181	118	168	851	100	137	58
22	69	79	e62	61	e97	170	111	160	683	128	116	70
23	73	78	e63	59	e94	200	104	158	604	103	100	62
24	76	80	63	e54	96	317	108	152	491	97	91	61
25	74	76	60	e55	106	344	150	143	421	94	90	92
26	73	76	63	e56	115	273	175	152	366	87	84	75
27	70	75	72	e57	e101	208	475	200	339	84	83	69
28	66	73	67	e57	e93	179	571	242	302	85	80	65
29	67	71	65	59	---	163	397	252	265	79	75	59
30	69	77	64	58	---	148	339	234	240	91	68	57
31	71	---	63	58	---	147	---	208	---	85	69	---
Total	2,219	2,580	2,040	1,805	5,996	6,556	4,895	7,722	20,356	3,881	2,760	1,851
Mean	71.6	86.0	65.8	58.2	214	211	163	249	679	125	89.0	61.7
Max	111	125	72	63	1,650	406	571	482	2,380	218	137	92
Min	58	67	60	54	54	87	101	143	144	79	68	53
Ac-ft	4,400	5,120	4,050	3,580	11,890	13,000	9,710	15,320	40,380	7,700	5,470	3,670
Cfsm	0.18	0.22	0.16	0.15	0.54	0.53	0.41	0.62	1.70	0.31	0.22	0.15
In.	0.21	0.24	0.19	0.17	0.56	0.61	0.46	0.72	1.90	0.36	0.26	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	179	160	110	80.1	114	463	547	347	357	267	187	176
Max	1,160	997	431	313	701	1,428	2,328	1,387	1,624	1,456	1,720	1,728
(WY)	(2008)	(1910)	(1992)	(2007)	(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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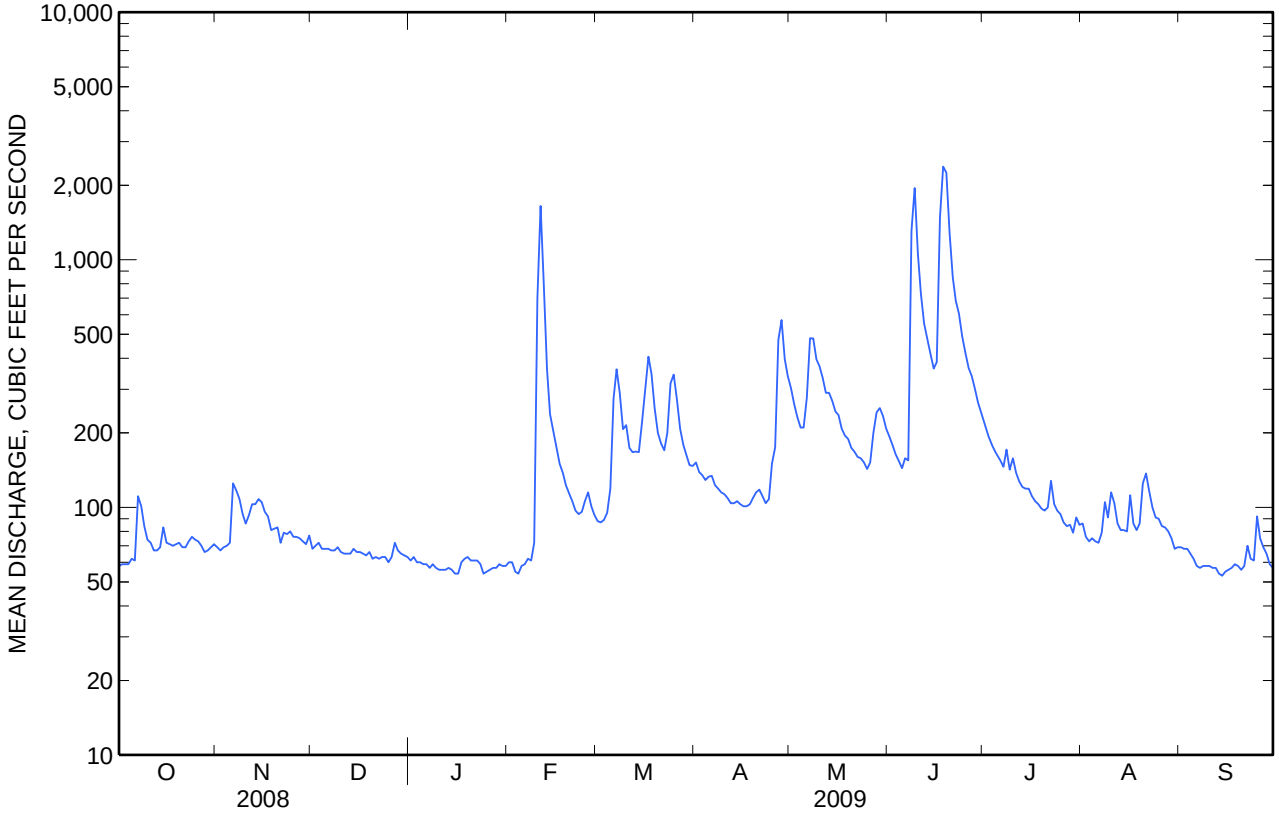
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1909 - 2009	
Annual total	123,178		62,661			
Annual mean	337		172		[a]249	
Highest annual mean					824	1993
Lowest annual mean					58.1	1977
Highest daily mean	10,700	Jun 12	2,380	Jun 18	15,000	Sep 16, 2004
Lowest daily mean	49	Sep 20	53	Sep 14	[b]0.00	Jan 15, 1911
Annual seven-day minimum	52	Sep 16	56	Jan 10	13	Sep 1, 1912
Maximum peak flow			3,030	Jun 18	20,000	Sep 16, 2004
Maximum peak stage			8.75	Jun 18	[c]23.26	Sep 16, 2004
Instantaneous low flow			51	Sep 13	[b]0.00	Jan 15, 1911
Annual runoff (ac-ft)	244,300		124,300		180,700	
Annual runoff (cfsm)	0.843		0.430		0.625	
Annual runoff (inches)	11.48		5.84		8.50	
10 percent exceeds	706		336		519	
50 percent exceeds	103		93		102	
90 percent exceeds	63		59		46	

[a] Median of annual mean discharges is 230 ft³/s.

[b] Occurred on several days in 1911, result of regulation.

[c] From floodmark.