IOWA RIVER BASIN

05457000 CEDAR RIVER NEAR AUSTIN, MN

LOCATION.--Lat 43º 38'11", long 92º 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.--425 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 mean sea level. 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	64	102	254	e122	118	145	813	324	350
271	342	198							
2	65	87	262	126	99	163	748	344	325
237	301	180							
3	57	93	233	124	e100	191	667	461	303
206	263	154							
4	58	105	215	176	e98	200	618	475	285
185	232	136							
5	60	107	205	142	95	191	641	433	302
174	204	143							
6	60	111	198	119	94	173	1050	373	325
158	196	136							
7	61	112	183	e128	94	172	995	359	280
144	180	133							
8	59	115	163	e137	91	162	742	415	257
194	166	131							
9	67	107	164	e138	90	301	576	416	236
183	150	126							

10	60	92	174	e132	92	1310	524	370	218
155	144	118							
11	60	87	168	e128	94	e2990	476	351	206
136	135	111							
12	61	85	167	e122	96	e3400	444	329	197
138	167	104							
13	60	93	170	e120	e92	1950	415	298	187
336	148	100							
14	58	81	160	e116	90	1020	381	293	172
922	139	98							
15	61	92	125	e109	92	758	365	274	170
917	176	98							
16	60	213	144	e109	90	642	346	252	168
570	235	105							
17	70	661	e143	e107	99	517	318	242	155
524	211	103							
18	71	707	e140	e100	104	470	321	252	155
640	188	95							
19	66	473	e133	e100	104	441	362	250	146
769	176	99							
20	62	344	e130	e101	110	605	365	229	154
616	186	95							
21	68	284	e130	e106	117	1710	352	219	171
553	194	89							
22	86	261	e129	e111	119	4260	332	213	155
831	187	102							
23	126	246	e126	e113	115	4100	308	212	242
1550	195	119							
24	125	214	e123	e111	124	2580	290	302	363
1170	184	116							
25	121	179	e123	e108	123	1510	272	563	316
880	175	114							
26	105	e168	e122	e108	121	1160	253	518	255
1110	168	109							
27	95	e182	e121	e109	121	1920	245	432	224
1210	154	107							
28	86	175	e120	e108	122	2440	242	382	203
904	145	118							
29	106	186	e120	e106	---	1740	235	392	303
641	134	106							
30	114	227	e119	e109	---	1230	274	414	329
494	168	99							
31	106	---	e119	e115	---	950	---	382	---
398	195	---							
TOTAL	2378	5989	4883	3660	2904	39401	13970	10769	7152
17216	5838	3542							
MEAN	76.7	200	158	118	104	1271	466	347	238
555	188	118							
MAX	126	707	262	176	124	4260	1050	563	363
1550	342	198							

MIN	57	81	119	100	90	145	235	212	146
136	134	89							
AC-FT	4720	11880	9690	7260	5760	78150	27710	21360	14190
34150	11580	7030							
CFSM	.18	.47	.37	.28	.24	2.99	1.10	.82	.56
1.31	.44	.28							
IN.	.21	.52	.43	.32	.25	3.45	1.22	.94	.63
1.51	.51	.31							

o a From highwater mark.

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1997, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	164	160	107	75.0	104	487	509	300	284
250	184	149							
MAX	884	997	431	261	701	1428	2011	1222	1624
1456	1720	734							
(WY)	1974	1910	1992	1973	1984	1973	1993	1991	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 1996 CALENDAR YEAR* *FOR 1997 WATER YEAR* *WATER YEARS 1909 - 1997*

ANNUAL TOTAL	83109		117702		
ANNUAL MEAN	227		322		
232a					
HIGHEST ANNUAL MEAN					
824 1993					
LOWEST ANNUAL MEAN					
58.1 1977					
HIGHEST DAILY MEAN	2400	Jun 19	4260	Mar 22	
8720 Mar 29 1962					
LOWEST DAILY MEAN	57	Sep 15	57	Oct 3	
.00b Jan 15 1911					
ANNUAL SEVEN-DAY MINIMUM	59	Sep 13	60	Oct	
13 Sep 1 1912					
INSTANTANEOUS PEAK FLOW			960	Mar 23	
12400 Jul 17 1978					
INSTANTANEOUS PEAK STAGE			12.01	Mar 23	
20.35[c] Jul 17 1978					
INSTANTANEOUS LOW FLOW			55	Oct 8,14	
.00 Jan 15 1911					

ANNUAL RUNOFF (AC-FT)	164800	233500	167800
ANNUAL RUNOFF (CFSM)	.53	.76	.54
ANNUAL RUNOFF (INCHES)	7.27	10.30	7.40
10 PERCENT EXCEEDS	468	641	480
50 PERCENT EXCEEDS	133	170	94
90 PERCENT EXCEEDS	64	92	44

a Median of annual mean discharges is 220 ft^3/s.
b Occurred on several days in 1911, result of regulation.
c From floodmark.