

MINNESOTA RIVER BASIN--Continued

05317200 LITTLE COTTONWOOD RIVER NEAR COURTLAND, MN

LOCATION.--Lat 44°14'47", long 94°20'19", in SW¹/₄NE¹/₄ sec.17, T.109 N., R.29 W., Blue Earth County, Hydrologic Unit 07020007, on right bank 30 ft downstream from bridge on State Highway 68, 0.7 mi above mouth, 1.5 mi south of Courtland.

DRAINAGE AREA.--170 mi².

PERIOD OF RECORD.--October 1973 to current year. September 1969 to September 1973, operated as a low-flow station only.

GAGE.--Water-stage recorder. Datum of gage is 788.25 ft above sea level (NGVD of 1929).

REMARKS.--Records good except those for estimated days, which are fair to poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 18	1000	*821	*7.45	Jun 4	0700	243	4.83

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	7.6	6.5	5.7	3.6	33	15	22	172	39	22	12
2	5.3	6.9	7.9	6.2	3.6	26	15	16	159	40	22	12
3	5.3	6.4	8.8	6.5	3.8	31	17	13	136	36	19	13
4	6.0	7.1	13	6.9	4.0	27	18	9.5	179	37	18	12
5	6.7	8.7	9.1	6.4	4.0	22	12	7.3	166	59	20	10
6	6.5	8.6	7.4	6.0	4.0	24	8.4	6.0	135	55	20	8.9
7	6.8	8.1	9.1	5.5	4.0	22	7.5	5.7	113	45	22	7.7
8	7.8	7.9	8.5	5.2	4.0	21	6.7	19	97	41	44	6.3
9	7.3	8.3	8.3	5.0	4.0	22	7.1	14	84	38	32	5.5
10	7.1	8.5	7.1	4.9	4.2	22	6.6	15	73	46	41	5.9
11	6.4	8.3	8.5	5.2	4.3	22	6.6	26	65	63	39	5.1
12	6.2	8.4	7.8	5.0	4.0	22	7.4	35	60	122	31	4.5
13	6.3	8.4	8.1	4.9	4.0	20	7.7	28	59	129	27	3.9
14	5.7	8.9	8.3	4.9	4.0	19	7.5	29	59	121	23	3.3
15	5.8	8.6	8.4	4.9	4.1	19	8.6	25	57	115	21	2.9
16	5.6	8.1	5.7	4.9	3.9	16	8.3	25	56	115	19	2.8
17	5.4	8.0	6.5	4.6	3.8	16	8.3	75	53	107	25	2.5
18	6.0	8.4	5.8	4.6	4.0	17	8.8	548	77	95	23	2.1
19	6.2	8.4	6.0	4.5	4.2	16	11	426	61	89	29	2.0
20	6.7	7.8	5.0	4.4	4.1	14	13	286	55	80	28	1.7
21	7.0	8.2	3.5	4.3	4.3	14	13	227	49	73	25	1.6
22	6.5	8.6	3.0	4.4	4.5	13	14	199	45	63	24	1.8
23	6.9	9.5	2.8	4.5	5.7	14	13	173	45	55	22	1.7
24	7.9	13	3.0	4.2	15	16	12	140	51	49	20	1.8
25	6.9	11	3.5	4.0	34	16	12	116	68	44	19	2.5
26	6.4	9.8	3.8	3.8	36	17	8.2	97	56	40	17	2.3
27	7.3	9.3	4.2	3.5	28	18	7.9	90	49	37	15	2.6
28	6.4	8.6	4.6	3.3	30	16	7.3	92	48	33	14	4.0
29	6.5	7.3	5.0	3.2	40	14	8.0	92	45	31	13	2.4
30	7.1	7.2	5.1	3.1	---	13	19	150	42	28	13	1.7
31	6.7	---	5.3	3.4	---	14	---	170	---	24	13	---
TOTAL	199.0	253.9	199.6	147.9	277.1	596	314.9	3176.5	2414	1949	720	146.5
MEAN	6.42	8.46	6.44	4.77	9.56	19.2	10.5	102	80.5	62.9	23.2	4.88
MAX	7.9	13	13	6.9	40	33	19	548	179	129	44	13
MIN	4.3	6.4	2.8	3.1	3.6	13	6.6	5.7	42	24	13	1.6
AC-FT	395	504	396	293	550	1180	625	6300	4790	3870	1430	291
CFSM	.04	.05	.04	.03	.06	.11	.06	.60	.47	.37	.14	.03
IN.	.04	.06	.04	.03	.06	.13	.07	.70	.53	.43	.16	.03

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	40.5	46.1	27.1	14.6	22.8	127	167	119	132	91.1	52.5	40.7
MAX	163	134	118	80.1	105	392	463	418	750	553	248	262
(WY)	1987	1983	1992	1992	1983	1997	1983	1993	1993	1993	1993	1986
MIN	.75	.70	.21	.15	.38	5.79	9.64	4.17	2.39	.63	.81	.54
(WY)	1976	1977	1977	1977	1977	1975	1990	1981	1976	1988	1976	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1974 - 2000
ANNUAL TOTAL	21161.0	10394.4	
ANNUAL MEAN	58.0	28.4	73.5
HIGHEST ANNUAL MEAN			239 1993
LOWEST ANNUAL MEAN			9.18 1989
HIGHEST DAILY MEAN	479 Jul 4	548 May 18	2850 Jun 20 1993
LOWEST DAILY MEAN	2.8 Dec 23	1.6 Sep 21	.02 Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	3.4 Dec 21	1.8 Sep 18	.08 Sep 11 1977
INSTANTANEOUS PEAK FLOW		821 May 18	3520 Jun 20 1993
INSTANTANEOUS PEAK STAGE		7.45 May 18	10.45 Jun 20 1993
INSTANTANEOUS LOW FLOW		1.5 Sep 21,30	.01 Sep 17 1977
ANNUAL RUNOFF (AC-FT)	41970	20620	53270
ANNUAL RUNOFF (CFSM)	.34	.17	.43
ANNUAL RUNOFF (INCHES)	4.63	2.27	5.88
10 PERCENT EXCEEDS	151	70	192
50 PERCENT EXCEEDS	20	9.0	27
90 PERCENT EXCEEDS	6.2	4.0	1.4

