

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.

EXTREMES 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)
Apr 5	0300	*2,750	*9.86	May 27	0300	243	5.30
Apr 12	0800	1,630	8.77	Jun 20	0800	283	5.50
Apr 23	0200	1,190	8.47	Jul 23	1100	356	5.83

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	19	e12	3.9	10	8.1	61	640	200	78	93	13
2	1.5	20	e12	3.8	10	8.1	98	566	183	73	78	14
3	1.7	15	e11	4.1	9.7	8.1	331	501	166	72	69	11
4	2.3	16	e11	4.4	9.5	8.0	1250	452	156	68	62	9.1
5	2.7	16	e10	4.9	9.5	8.0	2310	420	155	63	55	7.9
6	2.4	21	e10	5.1	9.1	8.0	1400	424	154	58	50	6.6
7	2.5	24	e9.8	5.4	8.5	8.0	1570	433	173	55	45	6.8
8	2.3	29	e9.5	5.5	8.5	8.0	1380	391	171	53	42	9.6
9	2.1	32	e9.4	5.4	8.6	8.0	1190	357	161	49	34	8.3
10	5.4	32	e8.7	5.5	8.5	8.0	1170	338	158	46	29	7.9
11	5.7	31	e8.3	5.5	8.5	8.0	1490	314	151	43	28	7.8
12	4.3	30	e8.0	5.9	8.5	8.0	1530	283	142	41	27	6.9
13	3.8	30	e7.6	6.3	8.5	8.0	e1250	254	174	39	25	6.2
14	3.4	28	e7.2	6.9	8.5	8.4	e1050	228	214	37	23	5.7
15	3.5	21	e6.9	7.3	8.2	9.0	e1000	210	223	34	24	5.8
16	3.1	e20	e6.5	7.6	8.1	9.2	e910	190	240	31	23	6.1
17	3.5	e19	e6.2	7.9	8.0	9.7	e840	178	250	29	23	7.5
18	6.8	e18	e5.8	8.4	8.0	10	e800	172	256	25	25	8.0
19	5.3	e17	5.5	8.8	8.0	10	e780	164	269	23	25	8.2
20	3.7	e15	5.1	9.6	8.0	10	e650	164	279	33	23	9.6
21	3.2	e10	4.7	10	7.9	11	671	190	272	39	22	14
22	4.1	e9.4	4.5	9.7	7.6	12	705	192	241	76	22	13
23	7.4	e10	4.3	10	7.5	13	1060	192	198	232	20	23
24	5.8	e10	4.0	9.9	7.7	e13	1050	197	162	314	19	41
25	7.1	e11	3.6	9.0	8.0	e14	e900	197	139	259	19	39
26	8.5	e12	3.6	9.2	8.1	e14	e850	219	121	218	17	29
27	9.1	e12	3.6	9.0	8.0	15	e820	238	109	204	16	22
28	8.7	e12	3.7	9.0	8.0	16	e780	225	99	201	16	18
29	8.9	e12	3.8	9.3	---	17	e770	223	92	180	15	15
30	10	e12	3.8	9.8	---	20	731	220	85	144	18	13
31	10	---	3.9	10	---	32	---	212	---	115	14	---
TOTAL	150.5	563.4	214.0	227.1	237.0	347.6	29397	8984	5393	2932	1001	393.0
MEAN	4.85	18.8	6.90	7.33	8.46	11.2	980	290	180	94.6	32.3	13.1
MAX	10	32	12	10	10	32	2310	640	279	314	93	41
MIN	1.5	9.4	3.6	3.8	7.5	8.0	61	164	85	23	14	5.7
AC-FT	299	1120	424	450	470	689	58310	17820	10700	5820	1990	780
CFSM	.03	.11	.04	.04	.05	.07	5.76	1.70	1.06	.56	.19	.08
IN.	.03	.12	.05	.05	.05	.08	6.43	1.97	1.18	.64	.22	.09

05317200 LITTLE COTTONWOOD RIVER NEAR COURTLAND, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	39.2	45.1	26.4	14.4	22.3	123	196	125	134	91.3	51.8	39.7
MAX	163	134	118	80.1	105	392	980	418	750	553	248	262
(WY)	1987	1983	1992	1992	1983	1997	2001	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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1974 - 2001
ANNUAL TOTAL	10669.8	49839.6	
ANNUAL MEAN	29.2	137	75.8
HIGHEST ANNUAL MEAN			239 1993
LOWEST ANNUAL MEAN			9.18 1989
HIGHEST DAILY MEAN	548 May 18	2310 Apr 5	2850 Jun 20 1993
LOWEST DAILY MEAN	1.5 Oct 2	1.5 Oct 2	.02 Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	1.8 Sep 18	2.1 Oct 1	.08 Sep 11 1977
MAXIMUM PEAK FLOW		2750 Apr 5	3520ac Jun 20 1993
MAXIMUM PEAK STAGE		9.86 Apr 5	11.60bc Apr 4 1997
INSTANTANEOUS LOW FLOW		1.2 Oct 2	.01 Sep 17 1977
ANNUAL RUNOFF (AC-FT)	21160	98860	54890
ANNUAL RUNOFF (CFSM)	.17	.80	.45
ANNUAL RUNOFF (INCHES)	2.33	10.91	6.06
10 PERCENT EXCEEDS	70	346	196
50 PERCENT EXCEEDS	13	15	26
90 PERCENT EXCEEDS	3.6	5.2	1.5

- a Gage-height, 10.45 ft.
- b Backwater from the Minnesota River.
- c Revised in 2001 water year.
- e Estimated.

