

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)
Jun 4	0400	*892	*7.67	Jun 21	1800	812	7.42
Jun 18	1000	421	5.73				

Minimum discharge, 4.3 ft³/s, Sept. 24, gage height, 2.64 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	53	24	25	e24	130	103	98	115	24	27
2	13	17	51	23	26	e22	103	98	96	101	20	25
3	11	17	51	22	25	e19	77	90	283	94	20	23
4	10	17	51	22	25	e19	69	84	747	89	21	20
5	11	16	60	24	24	e19	63	79	680	78	22	18
6	9.9	17	71	25	24	e19	60	75	537	72	26	16
7	9.9	18	75	25	25	e19	60	75	485	66	35	14
8	9.7	19	76	26	26	e19	62	90	511	62	42	12
9	10	19	63	26	27	e18	65	101	534	57	40	11
10	11	19	74	26	28	e18	65	100	506	60	36	11
11	12	17	69	28	27	e18	67	98	448	59	31	9.6
12	12	17	64	30	26	e19	78	102	369	67	30	9.2
13	14	18	60	31	28	e19	89	106	291	62	27	8.9
14	15	20	45	33	28	e19	92	104	258	54	25	9.6
15	17	20	63	32	29	e20	92	100	232	48	24	8.5
16	20	20	53	32	31	e20	88	96	207	44	23	8.6
17	17	19	52	33	33	e21	85	88	181	39	22	7.8
18	16	20	50	31	34	e21	83	83	247	37	19	7.2
19	15	22	39	29	40	e22	75	77	191	37	17	6.5
20	16	19	30	28	41	e23	68	71	175	34	16	6.6
21	16	21	38	28	40	e23	66	68	430	32	33	5.9
22	16	19	45	28	39	e24	66	65	562	28	56	5.3
23	21	21	30	29	44	e24	69	65	407	23	71	5.1
24	18	34	20	29	49	e25	68	61	326	21	82	4.6
25	18	60	42	28	44	e28	64	60	290	30	82	7.2
26	19	76	35	28	31	e31	63	57	273	28	66	19
27	17	80	31	30	37	42	63	56	246	25	52	24
28	17	70	31	30	38	86	77	58	197	23	43	26
29	19	61	29	28	---	111	95	56	157	28	37	23
30	e18	55	27	27	---	127	104	57	134	31	33	19
31	19	---	25	26	---	121	---	67	---	28	29	---
TOTAL	460.5	867	1503	861	894	1040	2306	2490	10098	1572	1104	398.6
MEAN	14.9	28.9	48.5	27.8	31.9	33.5	76.9	80.3	337	50.7	35.6	13.3
MAX	21	80	76	33	49	127	130	106	747	115	82	27
MIN	9.7	16	20	22	24	18	60	56	96	21	16	4.6
AC-FT	913	1720	2980	1710	1770	2060	4570	4940	20030	3120	2190	791
CFSM	0.09	0.17	0.29	0.16	0.19	0.20	0.45	0.47	1.98	0.30	0.21	0.08
IN.	0.10	0.19	0.33	0.19	0.20	0.23	0.50	0.54	2.21	0.34	0.24	0.09

05317200 LITTLE COTTONWOOD RIVER NEAR COURTLAND, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	38.4	44.6	27.2	14.8	22.6	120	192	124	141	89.9	51.3	38.8
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	0.75	0.70	0.21	0.15	0.38	5.79	9.64	4.17	2.39	0.63	0.81	0.54
(WY)	1976	1977	1977	1977	1977	1975	1990	1981	1976	1988	1976	1976

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1974 - 2002

ANNUAL TOTAL	51742.2	23594.1	
ANNUAL MEAN	142	64.6	75.4
HIGHEST ANNUAL MEAN			239 1993
LOWEST ANNUAL MEAN			9.18 1989
HIGHEST DAILY MEAN	2310 Apr 5	747 Jun 4	2850 Jun 20 1993
LOWEST DAILY MEAN	3.8 Jan 2	4.6 Sep 24	0.02 Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	4.5 Jan 1	5.9 Sep 18	0.08 Sep 11 1977
MAXIMUM PEAK FLOW		892 Jun 4	3520a Jun 20 1993
MAXIMUM PEAK STAGE		7.67 Jun 4	11.60b Apr 4 1997
INSTANTANEOUS LOW FLOW		4.3 Sep 24	0.01 Sep 17 1977
ANNUAL RUNOFF (AC-FT)	102600	46800	54620
ANNUAL RUNOFF (CFSM)	0.83	0.38	0.44
ANNUAL RUNOFF (INCHES)	11.32	5.16	6.03
10 PERCENT EXCEEDS	346	103	194
50 PERCENT EXCEEDS	23	31	27
90 PERCENT EXCEEDS	8.0	16	1.5

- a Gage-height, 10.45 ft.
- b Backwater from the Minnesota River.
- e Estimated.

