

05320270 LITTLE COBB RIVER NEAR BEAUFORD, MN

LOCATION.--Lat 43°59'48", long 93°54'30", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T.106 N., R.26 W., Blue Earth County, Hydrologic Unit 07020011, on left bank at downstream end of bridge on County Road No. 16, 1.6 mi upstream from mouth, 2.6 mi east of Beauford, and 5.3 mi northeast of Mapleton.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--April 1996 to September 30, 1999, June 2001 to current year.

REVISED RECORDS.-- WDR MN-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 980 ft above sea level (from topographic map).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height observed, 12.17 ft, on April 5, 2001, discharge 2,220 ft³/s (from highwater mark).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	34	15	7.6	0.88	1.0	73	94	64	60	4.8	0.00
2	6.5	32	17	7.4	1.3	1.1	67	85	57	55	3.8	0.00
3	11	30	12	7.3	1.8	0.88	60	77	53	49	3.0	0.00
4	36	31	15	7.6	1.7	0.78	55	70	50	44	2.5	0.00
5	103	30	13	7.6	0.96	0.78	51	70	47	40	2.3	0.00
6	181	29	13	7.5	0.79	0.68	46	82	47	37	2.5	0.00
7	248	29	14	6.9	0.62	0.62	46	102	54	34	1.9	0.00
8	280	28	13	7.1	0.61	0.65	43	111	70	31	1.6	0.00
9	311	27	13	7.6	0.49	0.85	44	129	75	34	1.2	0.00
10	346	27	13	5.7	0.47	0.89	45	157	90	96	0.99	0.00
11	345	27	13	5.3	0.39	0.66	47	243	98	128	0.75	0.00
12	309	26	13	6.3	0.38	0.74	49	284	102	130	0.62	0.00
13	263	25	12	5.9	0.38	0.78	50	303	102	125	0.45	0.00
14	226	24	11	e5.9	0.40	8.4	51	347	97	112	0.27	0.00
15	191	23	11	e6.6	0.41	43	54	397	88	97	0.20	0.00
16	160	23	11	e6.7	0.48	45	66	399	78	80	0.11	0.00
17	135	21	9.1	e6.8	0.47	50	118	371	70	66	e0.05	0.00
18	116	23	13	e6.9	0.49	58	145	340	65	55	e0.02	0.00
19	97	23	12	e6.8	0.57	56	157	307	58	47	e0.02	0.00
20	80	22	12	e5.7	0.99	58	169	276	52	43	e0.09	0.00
21	66	21	11	e5.0	1.3	54	177	248	46	38	0.13	0.00
22	59	20	10	e4.6	3.4	49	180	222	42	32	e0.05	0.00
23	53	20	9.6	e4.0	2.6	46	179	196	45	28	e0.01	0.00
24	48	19	9.7	2.1	1.7	44	171	174	47	24	0.00	0.00
25	45	14	9.2	1.0	1.6	39	161	154	52	21	0.00	0.00
26	44	19	8.6	0.63	1.1	32	151	137	62	18	0.00	0.00
27	43	19	8.1	0.52	0.94	35	138	122	67	16	0.00	0.00
28	40	18	8.2	0.55	0.90	57	127	108	68	12	0.00	0.00
29	38	19	8.4	0.50	---	87	113	95	67	9.2	0.00	0.00
30	37	15	8.5	0.49	---	90	102	84	64	7.4	0.00	0.00
31	36	---	7.9	0.66	---	82	---	73	---	6.1	0.00	---
TOTAL	3,958.5	718	354.3	155.25	28.14	943.81	2,935	5,857	1,977	1,574.7	27.36	0.00
MEAN	128	23.9	11.4	5.01	1.00	30.4	97.8	189	65.9	50.8	0.88	0.00
MAX	346	34	17	7.6	3.4	90	180	399	102	130	4.8	0.00
MIN	5.0	14	7.9	0.49	0.38	0.62	43	70	42	6.1	0.00	0.00
AC-FT	7,850	1,420	703	308	56	1,870	5,820	11,620	3,920	3,120	54	0.00
CFSM	0.98	0.18	0.09	0.04	0.01	0.23	0.75	1.45	0.51	0.39	0.01	0.00
IN.	1.13	0.21	0.10	0.04	0.01	0.27	0.84	1.68	0.57	0.45	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2003, BY WATER YEAR (WY)

MEAN	29.9	28.2	14.8	6.00	27.7	99.9	183	146	130	71.6	21.7	4.76
MAX	128	89.7	54.0	18.2	58.2	278	410	341	217	150	58.0	17.2
(WY)	(2003)	(1997)	(1997)	(1997)	(1999)	(1997)	(1999)	(1999)	(1999)	(1999)	(1999)	(1997)
MIN	0.00	0.74	1.46	0.49	1.00	12.5	42.6	40.6	65.9	23.8	0.88	0.00
(WY)	(2002)	(2002)	(2000)	(1999)	(2003)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1996 - 2003	
ANNUAL TOTAL	14,100.12		18,529.06			
ANNUAL MEAN	38.6		50.8		68.2	
HIGHEST ANNUAL MEAN					114	1999
LOWEST ANNUAL MEAN					25.3	2002
HIGHEST DAILY MEAN	346	Oct 10	399	May 16	811	Apr 12, 1999
LOWEST DAILY MEAN	0.18	Sep 24	0.00	Aug 24 - Sep 30	a0.00	Sep 6, 1998
ANNUAL SEVEN-DAY MINIMUM	0.33	Sep 19	0.00	Aug 24	0.00	Sep 12, 1998
MAXIMUM PEAK FLOW			406	May 15	852	Apr 12, 1999
MAXIMUM PEAK STAGE			8.82	May 15	11.38	Mar 14, 1997
INSTANTANEOUS LOW FLOW			0.00	Aug 23	a0.00	Sep 5, 1998
ANNUAL RUNOFF (AC-FT)	27,970		36,750		49,400	
ANNUAL RUNOFF (CFSM)	0.30		0.39		0.52	
ANNUAL RUNOFF (INCHES)	4.03		5.30		7.13	
10 PERCENT EXCEEDS	100		141		182	
50 PERCENT EXCEEDS	15		20		23	
90 PERCENT EXCEEDS	1.8		0.00		0.48	

a Many days, several years.
 e Estimated.

