

## 05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN

LOCATION.--Lat 47°36'43", long 96°16'45", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 29, T.148 N., R.44 W., Polk County, Hydrologic Unit 09020303, at culvert on State Highway 32, 3.0 miles west of Maple Bay.

DRAINAGE AREA.--10.4 mi<sup>2</sup>.

PERIOD OF RECORD.--September 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,138.95 ft above sea level (NAVD of 1988).

REMARKS.--Records fair except those for estimated daily discharges and discharges less than 1.0 ft<sup>3</sup>/s, which are poor.

REVISIONS.--Revised maximum discharge for 2003 water year and daily-mean discharges for selected days in June 2003, as follows: maximum discharge, 62 ft<sup>3</sup>/s, June 25; daily-mean discharges, June 25, 54 ft<sup>3</sup>/s; June 26, 52 ft<sup>3</sup>/s; June 27, 40 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	e0.06	e0.05	e0.05	e0.04	e0.15	14	0.64	20	0.06	0.15	0.33
2	0.02	e0.06	e0.05	e0.06	e0.04	e0.15	12	0.60	12	0.10	0.10	0.25
3	0.02	e0.06	0.06	e0.07	e0.04	e0.14	11	0.52	8.5	0.48	0.07	0.20
4	0.02	e0.06	0.06	e0.05	e0.04	e0.13	8.7	0.52	6.2	0.64	0.04	0.23
5	0.02	e0.06	0.07	e0.04	e0.04	e0.14	7.0	0.72	4.4	0.33	0.03	0.52
6	0.02	0.06	0.08	e0.04	e0.04	e0.15	5.8	0.38	3.2	1.4	0.04	4.5
7	0.02	0.05	0.08	e0.04	e0.04	e0.16	5.3	0.76	2.5	1.9	0.13	3.1
8	0.02	e0.05	0.09	e0.05	e0.04	e0.17	4.7	0.62	2.0	1.1	0.14	1.8
9	0.02	0.05	0.08	e0.06	e0.05	e0.18	3.6	0.53	1.7	1.5	0.19	1.3
10	0.02	0.07	e0.07	e0.07	e0.05	e0.19	3.0	0.58	1.3	e0.91	0.25	0.95
11	0.05	0.07	e0.05	e0.07	e0.05	e0.18	2.4	5.6	1.1	40	0.24	0.73
12	0.04	0.06	e0.05	e0.08	e0.05	e0.18	2.1	44	0.91	30	0.19	0.58
13	0.03	0.06	e0.05	e0.08	e0.05	e0.18	2.1	36	0.71	15	0.15	0.49
14	0.03	0.07	e0.06	e0.08	e0.05	e0.19	2.0	24	0.58	7.1	0.08	0.46
15	0.03	0.08	e0.06	e0.07	e0.05	e0.21	1.9	14	0.48	10	0.06	0.59
16	0.03	0.10	e0.06	e0.07	e0.06	e0.31	1.8	9.9	0.43	28	0.04	1.0
17	0.03	0.14	e0.05	e0.07	e0.06	e0.30	1.7	7.5	0.35	7.8	0.04	0.89
18	0.03	0.13	e0.05	e0.06	e0.07	e0.28	1.7	5.4	0.32	3.8	0.37	0.65
19	0.03	0.10	e0.05	e0.06	e0.09	e0.34	1.6	4.4	0.25	2.4	0.07	0.51
20	0.03	0.09	e0.06	e0.06	e0.10	e0.50	1.7	3.8	0.22	1.4	0.05	0.58
21	0.03	0.08	e0.10	e0.06	e0.11	e0.46	1.8	2.8	0.20	1.1	0.05	0.88
22	0.03	e0.06	e0.14	e0.05	e0.11	e0.44	1.6	2.3	0.19	0.78	0.06	0.96
23	0.02	e0.05	e0.10	e0.05	e0.11	e0.57	1.4	1.9	0.20	0.61	0.06	1.6
24	0.03	e0.04	e0.08	e0.05	e0.11	e1.0	1.3	14	0.23	0.43	0.71	5.0
25	0.03	e0.04	e0.09	e0.05	e0.11	e2.0	1.1	24	0.19	0.33	0.57	3.0
26	0.08	e0.04	e0.10	e0.05	e0.11	e1.4	1.1	13	0.14	0.25	0.80	1.8
27	e0.03	e0.04	e0.12	e0.04	e0.12	e8.0	1.0	8.0	0.13	0.18	0.65	1.3
28	e0.09	e0.04	e0.13	e0.04	e0.13	e7.0	0.95	5.2	0.10	0.22	0.47	0.99
29	e0.08	e0.05	e0.10	e0.04	e0.14	e4.5	0.83	4.0	0.08	0.29	0.49	0.76
30	e0.07	e0.05	e0.07	e0.04	---	e3.2	0.66	29	0.07	0.25	0.49	0.71
31	e0.06	---	e0.06	e0.04	---	e1.8	---	26	---	0.19	0.40	---
TOTAL	1.08	1.97	2.32	1.74	2.10	183.10	105.84	290.67	68.68	158.55	7.18	36.66
MEAN	0.03	0.07	0.07	0.06	0.07	5.91	3.53	9.38	2.29	5.11	0.23	1.22
MAX	0.09	0.14	0.14	0.08	0.14	70	14	44	20	40	0.80	5.0
MIN	0.02	0.04	0.05	0.04	0.04	0.13	0.66	0.38	0.07	0.06	0.03	0.20
AC-FT	2.1	3.9	4.6	3.5	4.2	363	210	577	136	314	14	73
CFSM	0.00	0.01	0.01	0.01	0.01	0.57	0.34	0.90	0.22	0.49	0.02	0.12
IN.	0.00	0.01	0.01	0.01	0.01	0.65	0.38	1.04	0.25	0.57	0.03	0.13

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	0.21	0.44	0.15	0.07	0.05	3.55	2.95	8.40	8.01	3.33	0.13	0.62
MAX	0.39	0.81	0.22	0.09	0.07	5.91	3.53	9.38	13.7	5.11	0.23	1.22
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)
MIN	0.03	0.07	0.07	0.06	0.02	1.20	2.36	7.42	2.29	1.54	0.03	0.01
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	807.85		859.89		—	
ANNUAL MEAN	2.21		2.35		2.33	
HIGHEST ANNUAL MEAN					2.35	2004
LOWEST ANNUAL MEAN					2.32	2003
HIGHEST DAILY MEAN	54	Jun 25	70	Mar 28	a70	Mar 28, 2004
LOWEST DAILY MEAN	0.00	Aug 22	0.02	Oct 1-10,23	b0.00	Aug 22, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 3	0.02	Oct 1	0.00	Sep 3, 2003
MAXIMUM PEAK FLOW			a70	Mar 28	a70	Mar 28, 2004
MAXIMUM PEAK STAGE			c4.37	Mar 25	c4.37	Mar 25, 2004
INSTANTANEOUS LOW FLOW			0.01	Oct 6	b0.00	Aug 18, 2003
ANNUAL RUNOFF (AC-FT)	1,600		1,710		1,690	
ANNUAL RUNOFF (CFSM)	0.213		0.226		0.224	
ANNUAL RUNOFF (INCHES)	2.89		3.08		3.05	
10 PERCENT EXCEEDS	6.6		5.3		6.4	
50 PERCENT EXCEEDS	0.07		0.16		0.22	
90 PERCENT EXCEEDS	0.02		0.04		0.02	

- a Estimated daily-mean discharge, backwater from ice.
- b Many days.
- c Backwater from ice.
- e Estimated.

