

05079200 COUNTY DITCH 72 NEAR MAPLE BAY, MN

LOCATION.--Lat 47°48'13", long 96°16'36", in NW¹/₄NE¹/₄ sec. 22, T.150 N., R.44 W., Polk County, Hydrologic Unit 09020303, at culvert on State Highway 32, 2.4 miles west of Maple Bay.

DRAINAGE AREA.--10.3 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,133.55 ft above sea level (NAVD of 1988).

REMARKS.--Records poor.

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	0.06	0.10	e0.02	e0.00	e0.00	e0.04	16	0.64	19	0.19	e0.04	0.19
2	0.06	0.11	e0.02	e0.00	e0.00	e0.03	5.5	0.60	15	0.20	e0.03	0.12
3	0.05	0.08	e0.02	e0.00	e0.00	e0.02	3.5	0.56	11	e0.25	e0.03	0.06
4	0.05	0.06	e0.02	e0.00	e0.00	e0.02	2.6	0.55	5.6	e0.30	e0.03	0.07
5	0.04	e0.05	e0.02	e0.00	e0.00	e0.02	2.3	0.48	3.1	e0.24	e0.03	0.18
6	0.04	e0.04	e0.02	e0.00	e0.00	e0.02	2.2	0.46	2.2	e0.35	e0.05	3.0
7	0.04	e0.03	e0.02	e0.00	e0.00	e0.02	2.2	0.40	2.0	e0.50	0.09	2.6
8	0.03	e0.02	e0.02	e0.00	e0.00	e0.02	2.1	0.40	1.6	e0.46	0.10	1.9
9	0.03	e0.02	e0.02	e0.00	e0.00	e0.03	1.7	0.53	1.4	e0.40	0.11	1.1
10	0.03	e0.02	e0.01	e0.00	e0.00	e0.05	1.5	0.69	1.1	e0.35	0.12	0.58
11	0.10	e0.03	e0.00	e0.00	e0.00	e0.04	1.2	4.2	0.96	e8.8	0.10	0.42
12	0.08	e0.04	e0.00	e0.00	e0.00	e0.03	1.1	31	0.88	5.6	0.08	0.22
13	0.07	e0.03	e0.00	e0.00	e0.00	e0.04	1.1	24	0.71	3.4	0.06	0.24
14	0.07	e0.03	e0.00	e0.00	e0.00	e0.05	1.1	16	0.64	1.8	0.05	0.31
15	0.08	e0.03	e0.00	e0.00	e0.00	e0.04	1.1	5.6	0.58	e2.0	0.03	0.30
16	0.08	e0.04	e0.00	e0.00	e0.00	e0.04	1.1	3.4	0.56	e3.0	0.03	0.42
17	0.07	e0.05	e0.00	e0.00	e0.00	e0.04	1.1	2.4	0.48	e2.6	0.02	0.35
18	0.06	e0.05	e0.00	e0.00	e0.00	e0.04	1.1	1.7	0.44	e2.0	0.02	0.25
19	0.07	e0.04	e0.00	e0.00	e0.00	e0.05	1.1	1.5	0.39	e1.3	0.01	0.17
20	0.07	e0.03	e0.00	e0.00	e0.00	e0.10	1.1	1.4	0.35	e0.90	0.00	0.20
21	0.07	e0.03	e0.01	e0.00	e0.00	e0.08	1.2	1.2	0.31	e0.65	0.00	0.56
22	0.06	e0.02	e0.02	e0.00	e0.00	e0.07	1.0	1.1	0.29	e0.48	0.00	0.60
23	0.06	e0.02	e0.01	e0.00	e0.00	e0.15	0.97	0.96	0.30	e0.35	0.00	1.00
24	0.07	e0.02	e0.00	e0.00	e0.00	e0.60	0.84	0.93	0.30	e0.27	0.11	1.9
25	0.06	e0.02	e0.00	e0.00	e0.00	e3.4	2.8	1.7	0.28	e0.21	0.06	1.4
26	0.06	e0.02	e0.01	e0.00	e0.01	e3.2	4.5	1.7	0.27	e0.16	0.25	0.81
27	0.08	e0.02	e0.02	e0.00	e0.03	e13	1.7	1.4	0.27	e0.13	0.21	0.66
28	0.11	e0.02	e0.02	e0.00	e0.05	e41	1.1	1.2	0.24	e0.10	0.17	0.54
29	0.10	e0.02	e0.01	e0.00	e0.05	36	0.84	1.1	0.22	e0.08	0.17	0.43
30	0.12	e0.02	e0.00	e0.00	---	31	0.71	17	0.21	e0.06	0.26	0.40
31	0.13	---	e0.00	e0.00	---	24	---	20	---	e0.05	0.27	---
TOTAL	2.10	1.11	0.29	0.00	0.14	153.24	66.36	144.80	70.68	37.18	2.53	20.98
MEAN	0.07	0.04	0.01	0.00	0.00	4.94	2.21	4.67	2.36	1.20	0.08	0.70
MAX	0.13	0.11	0.02	0.00	0.05	41	16	31	19	8.8	0.27	3.0
MIN	0.03	0.02	0.00	0.00	0.00	0.02	0.71	0.40	0.21	0.05	0.00	0.06
AC-FT	4.2	2.2	0.6	0.00	0.3	304	132	287	140	74	5.0	42
CFSM	0.01	0.00	0.00	0.00	0.00	0.46	0.21	0.44	0.22	0.11	0.01	0.07
IN.	0.01	0.00	0.00	0.00	0.00	0.53	0.23	0.50	0.25	0.13	0.01	0.07

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

MEAN	0.32	0.28	0.02	0.00	0.00	2.86	1.70	3.79	4.05	1.48	0.06	0.38
MAX	0.57	0.53	0.03	0.00	0.00	4.94	2.21	4.67	5.74	1.75	0.08	0.70
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2004)
MIN	0.07	0.04	0.01	0.00	0.00	0.79	1.19	2.91	2.36	1.20	0.04	0.06
(WY)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	383.21		499.41		1.25	
ANNUAL MEAN	1.05		1.36		1.36	
HIGHEST ANNUAL MEAN					1.13	2004
LOWEST ANNUAL MEAN					1.13	2003
HIGHEST DAILY MEAN	20	Jun 25	a41	Mar 28	a41	Mar 28, 2004
LOWEST DAILY MEAN	0.00	Jan 1	b0.00	Dec 11	b0.00	Dec 26, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 11	0.00	Dec 26, 2002
MAXIMUM PEAK FLOW			a41	Mar 28	a41	Mar 28, 2004
MAXIMUM PEAK STAGE			c3.94	Mar 28	c3.94	Mar 28, 2004
INSTANTANEOUS LOW FLOW			0.00	Dec 11	b0.00	Dec 26, 2002
ANNUAL RUNOFF (AC-FT)	760		991		905	
ANNUAL RUNOFF (CFSM)	0.098		0.128		0.117	
ANNUAL RUNOFF (INCHES)	1.33		1.74		1.59	
10 PERCENT EXCEEDS	2.7		2.2		2.6	
50 PERCENT EXCEEDS	0.06		0.08		0.14	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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

