

05078520 CYR CREEK NEAR MARCOUX CORNERS, MN

LOCATION.--Lat 47°48'13", long 96°16'36", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 22, T.150 N., R.44 W., Red lake County, Hydrologic Unit 09020303, at culvert on County Highway 14, 0.5 miles west of State Highway 32, 3.0 miles north of Marcoux Corners.

DRAINAGE AREA.--11.4 mi<sup>2</sup>.

PERIOD OF RECORD.--September 2002 to September 2005, discontinued.

GAGE.--Water-stage recorder. Datum of gage is 1,057.88 ft above sea level (NAVD 1988).

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

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	62	e0.65	e0.02	e0.00	e0.00	e21	1.6	2.3	3.8	0.00	0.03
2	1.6	40	e0.58	e0.02	e0.00	e0.00	e16	1.3	1.6	2.7	0.00	0.02
3	1.2	27	e0.53	e0.01	e0.00	e0.00	e13	1.1	1.3	1.6	0.00	0.02
4	0.78	20	e0.48	e0.01	e0.00	e0.00	12	1.3	1.4	0.92	0.00	0.02
5	0.81	14	e0.45	e0.01	e0.00	e0.00	10	0.88	15	0.55	0.00	0.78
6	0.68	11	e0.42	e0.01	e0.00	e0.00	8.2	0.77	57	0.24	0.00	19
7	0.56	8.6	e0.39	e0.01	e0.00	e0.00	6.7	0.78	38	0.11	0.00	14
8	0.52	7.0	e0.37	e0.00	e0.00	e0.00	6.1	0.90	41	0.10	0.00	5.9
9	0.32	5.9	e0.34	e0.00	e0.00	e0.00	5.8	2.0	40	0.07	0.00	3.9
10	0.22	5.4	e0.32	e0.00	e0.00	e0.00	5.3	3.1	21	0.05	0.00	4.3
11	0.21	4.5	e0.31	e0.00	e0.00	e0.00	12	2.9	19	0.03	0.00	3.9
12	0.19	3.7	e0.30	e0.00	e0.00	e0.00	31	2.1	79	0.03	0.00	2.4
13	0.15	3.3	e0.28	e0.00	e0.00	e0.00	40	1.9	59	0.03	0.00	1.6
14	0.15	3.2	e0.27	e0.00	e0.00	e0.00	22	2.2	77	0.02	0.00	1.2
15	0.27	3.1	e0.26	e0.00	e0.00	e0.00	13	3.1	61	0.01	0.00	1.2
16	0.45	3.3	e0.24	e0.00	e0.00	e0.00	9.8	2.5	35	0.00	0.00	0.79
17	0.40	3.3	e0.22	e0.00	e0.00	e0.00	7.4	2.0	19	0.00	0.01	0.72
18	0.32	3.1	e0.19	e0.00	e0.00	e0.00	6.2	1.7	9.7	0.00	0.01	0.54
19	0.79	2.8	e0.17	e0.00	e0.00	e0.00	5.4	1.3	5.6	0.00	0.82	0.47
20	0.57	3.0	e0.15	e0.00	e0.00	e0.00	4.6	1.2	3.8	0.00	4.2	0.40
21	0.67	2.8	e0.13	e0.00	e0.00	e0.04	3.8	1.5	2.4	0.00	1.2	0.28
22	0.72	2.8	e0.11	e0.00	e0.00	e0.15	3.5	2.3	1.4	0.00	0.17	0.22
23	4.8	2.5	e0.09	e0.00	e0.00	e0.50	3.0	2.3	1.0	0.00	0.04	0.19
24	12	1.9	e0.08	e0.00	e0.00	e0.34	2.7	1.9	0.62	0.01	0.02	0.22
25	11	1.4	e0.07	e0.00	e0.00	e0.24	2.6	1.7	0.25	0.01	0.39	0.19
26	9.3	e1.2	e0.06	e0.00	e0.00	e1.4	2.4	2.8	0.26	0.00	1.3	0.19
27	6.8	e1.1	e0.05	e0.00	e0.00	e6.0	2.1	3.7	0.32	0.00	1.7	0.15
28	6.7	e0.94	e0.04	e0.00	e0.00	e31	1.9	4.7	0.24	0.00	0.46	0.12
29	27	e0.84	e0.03	e0.00	---	e39	1.7	5.8	0.77	0.00	0.12	0.10
30	116	e0.74	e0.03	e0.00	---	e42	1.6	5.1	2.3	0.00	0.06	0.10
31	112	---	e0.02	e0.00	---	e31	---	3.5	---	0.00	0.04	---
TOTAL	319.28	250.42	7.63	0.09	0.00	151.67	280.8	69.93	596.26	10.28	10.54	62.95
MEAN	10.3	8.35	0.25	0.00	0.00	4.89	9.36	2.26	19.9	0.33	0.34	2.10
MAX	116	62	0.65	0.02	0.00	42	40	5.8	79	3.8	4.2	19
MIN	0.15	0.74	0.02	0.00	0.00	0.00	1.6	0.77	0.24	0.00	0.00	0.02
AC-FT	633	497	15	0.2	0.00	301	557	139	1,180	20	21	125
CFSM	0.90	0.73	0.02	0.00	0.00	0.43	0.82	0.20	1.74	0.03	0.03	0.18
IN.	1.04	0.82	0.02	0.00	0.00	0.49	0.92	0.23	1.95	0.03	0.03	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	3.57	2.89	0.10	0.01	0.00	4.58	4.37	5.15	9.51	0.96	2.24	4.10
MAX	10.3	8.35	0.25	0.03	0.00	6.40	9.36	9.94	19.9	2.19	6.39	10.2
(WY)	(2005)	(2005)	(2005)	(2003)	(2004)	(2004)	(2005)	(2004)	(2005)	(2004)	(2004)	(2004)
MIN	0.00	0.01	0.00	0.00	0.00	2.45	1.77	2.26	3.11	0.33	0.00	0.00
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2005)	(2004)	(2005)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	1,802.36		1,759.85		3.12	
ANNUAL MEAN	4.92		4.82		4.82	
HIGHEST ANNUAL MEAN					4.82	2005
LOWEST ANNUAL MEAN					1.20	2003
HIGHEST DAILY MEAN	116	Oct 30	116	Oct 30	116	Oct 30, 2004
LOWEST DAILY MEAN	0.00	Jan 1	a0.00	Jan 8	b0.00	Jan 23, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 8	0.00	Jan 23, 2003
MAXIMUM PEAK FLOW			c139	Oct 30	c139	Oct 30, 2004
MAXIMUM PEAK STAGE			d5.43	Mar 23	d5.43	Mar 23, 2005
INSTANTANEOUS LOW FLOW			a0.00	Jan 8	b0.00	Jan 23, 2003
ANNUAL RUNOFF (AC-FT)	3,570		3,490		2,260	
ANNUAL RUNOFF (CFSM)	0.432		0.423		0.274	
ANNUAL RUNOFF (INCHES)	5.88		5.74		3.72	
10 PERCENT EXCEEDS	11		12		6.8	
50 PERCENT EXCEEDS	0.46		0.37		0.17	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

- a Many days.
- b Many days, several years.
- c Gage height, 4.70 ft.
- d Backwater from ice, from highwater mark.
- e Estimated.

