

## 05131448 WOOD DUCK CREEK NEAR NETT LAKE, MN

LOCATION.--Lat 48°09'24", long 93°08'20", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 35, T.66 N., R.22 W., Koochiching County, Hydrologic Unit 09030005, at bridge on Tribal Service Road, 2.9 miles above mouth at Nett Lake, and 3.5 miles northwest of the town of Nett Lake.

DRAINAGE AREA.--31.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,200.00 ft above sea level (NGVD of 1929), from GPS survey. Prior to Oct. 1, 2002 at datum 71.92 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Backwater from Nett Lake occurs at times.

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	0.23	2.9	e1.4	e0.24	e0.00	e0.00	e4.3	5.9	18	18	e1.3	e0.26
2	0.28	2.9	e1.3	e0.23	e0.00	e0.00	e3.9	5.1	16	14	e1.4	e0.26
3	0.39	2.8	e1.2	e0.22	e0.00	e0.00	e3.7	4.8	15	14	e1.4	e0.21
4	0.54	2.7	e1.1	e0.21	e0.00	e0.00	e3.7	4.7	13	11	e1.3	e0.23
5	0.76	2.7	e1.1	e0.20	e0.00	e0.00	e3.7	4.6	12	9.4	e1.3	e0.23
6	0.84	2.6	e1.0	e0.19	e0.00	e0.00	e3.9	4.2	11	8.8	e1.4	e0.22
7	1.1	2.7	e0.95	e0.18	e0.00	e0.00	e4.5	4.0	12	9.1	e1.4	e0.22
8	1.2	2.5	e0.89	e0.17	e0.00	e0.00	e5.6	3.9	12	8.6	e1.3	e0.21
9	1.5	2.4	e0.84	e0.16	e0.00	e0.00	7.1	4.4	12	8.7	e1.2	e0.22
10	1.8	2.3	e0.78	e0.15	e0.00	e0.00	6.2	5.1	13	10	e1.1	e0.22
11	2.4	2.3	e0.74	e0.14	e0.00	e0.00	4.9	5.3	12	11	e1.0	e0.21
12	2.8	2.3	e0.70	e0.13	e0.00	e0.00	3.9	5.6	13	11	e0.98	e0.25
13	2.6	2.3	e0.66	e0.13	e0.00	e0.00	3.5	5.8	13	9.9	e0.91	e0.25
14	2.9	2.5	e0.62	e0.12	e0.00	e0.03	2.0	5.4	12	9.6	e0.85	e0.23
15	2.8	2.5	e0.58	e0.11	e0.00	e0.10	2.3	5.0	11	9.1	e0.74	e0.23
16	2.8	2.4	e0.55	e0.11	e0.00	e0.20	5.2	4.4	10	12	e0.67	e0.24
17	2.7	2.4	e0.52	e0.10	e0.00	e0.50	2.5	4.0	12	8.1	e0.64	e0.27
18	2.8	2.3	e0.48	e0.09	e0.00	e1.6	2.7	4.1	16	6.5	e0.58	e0.25
19	2.9	2.3	e0.46	e0.08	e0.00	e3.9	4.8	14	12	5.5	e0.53	e0.24
20	2.9	2.2	e0.44	e0.07	e0.00	e6.4	10	26	9.7	4.7	e0.50	e0.28
21	2.9	2.2	e0.42	e0.06	e0.00	e7.4	22	26	8.7	4.1	e0.53	e0.30
22	2.8	e2.2	e0.40	e0.06	e0.00	e7.9	27	25	7.5	3.5	e0.51	e0.27
23	2.8	e2.2	e0.38	e0.05	e0.00	e8.1	20	28	6.8	2.9	e0.55	e0.28
24	2.8	e2.1	e0.35	e0.05	e0.00	e8.3	12	27	6.9	2.6	e0.47	e0.24
25	2.7	e2.0	e0.34	e0.04	e0.00	e8.3	8.5	24	14	2.1	e0.44	e0.28
26	2.7	e1.8	e0.32	e0.04	e0.00	e8.2	7.4	21	22	1.7	e0.38	e0.28
27	2.7	e1.7	e0.31	e0.03	e0.00	e8.1	7.3	17	22	1.5	e0.36	e0.26
28	2.8	e1.6	e0.29	e0.03	e0.00	e7.7	7.3	20	24	1.3	e0.38	e0.28
29	2.9	e1.5	e0.28	e0.02	---	e7.2	6.4	17	25	e1.2	e0.33	e0.27
30	2.9	e1.4	e0.26	e0.02	---	e6.6	6.4	17	23	e1.4	e0.32	e0.26
31	2.9	---	e0.25	e0.01	---	e5.2	---	20	---	e1.4	e0.29	---
TOTAL	67.14	68.7	19.91	3.44	0.00	95.73	212.7	368.3	414.6	222.7	25.06	7.45
MEAN	2.17	2.29	0.64	0.11	0.000	3.09	7.09	11.9	13.8	7.18	0.81	0.25
MAX	2.9	2.9	1.4	0.24	0.00	8.3	27	28	25	18	1.4	0.30
MIN	0.23	1.4	0.25	0.01	0.00	0.00	2.0	3.9	6.8	1.2	0.29	0.21
AC-FT	133	136	39	6.8	0.00	190	422	731	822	442	50	15
CFSM	0.07	0.07	0.02	0.00	0.00	0.10	0.22	0.37	0.43	0.23	0.03	0.01
IN.	0.08	0.08	0.02	0.00	0.00	0.11	0.25	0.43	0.49	0.26	0.03	0.01

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

MEAN	19.7	18.3	7.11	2.30	1.65	3.90	75.8	61.0	17.3	13.5	17.9	10.9
MAX	65.4	43.0	18.6	6.18	4.61	10.9	148	136	58.8	32.5	75.7	48.0
(WY)	(1996)	(2001)	(2002)	(1997)	(1998)	(1998)	(2001)	(1996)	(2002)	(1996)	(2001)	(1999)
MIN	2.17	2.29	0.64	0.11	0.000	0.47	7.09	11.9	6.78	3.70	0.81	0.042
(WY)	(2003)	(2003)	(2003)	(2003)	(1999)	(2002)	(2003)	(2003)	(1998)	(2001)	(2003)	(1998)

05131448 WOOD DUCK CREEK NEAR NETT LAKE, MN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1996 - 2003	
ANNUAL TOTAL	4,610.19		1,505.73			
ANNUAL MEAN	12.6		4.13		20.8	
HIGHEST ANNUAL MEAN					38.3	2001
LOWEST ANNUAL MEAN					4.13	2003
HIGHEST DAILY MEAN	150	Jun 25	28	May 23	432	May 23, 2001
LOWEST DAILY MEAN	0.16	Sep 27	0.00	Feb 1 to Mar.13	a0.00	Sep 8, 1998
ANNUAL SEVEN-DAY MINIMUM	0.18	Sep 22	0.00	Feb 1	0.00	Sep 8, 1998
MAXIMUM PEAK FLOW			b30	Apr 22	cd445	May 23, 2001
MAXIMUM PEAK STAGE			g79.14	Jun 29	df84.80	Apr 7, 1997
INSTANTANEOUS LOW FLOW			0.00	Feb 1	a0.00	Sep 7, 1998
ANNUAL RUNOFF (AC-FT)	9,140		2,990		15,080	
ANNUAL RUNOFF (CFSM)	0.40		0.13		0.65	
ANNUAL RUNOFF (INCHES)	5.39		1.76		8.89	
10 PERCENT EXCEEDS	44		12		53	
50 PERCENT EXCEEDS	2.1		1.5		5.8	
90 PERCENT EXCEEDS	0.41		0.00		0.30	

- a Many days, several years.
- b Gage height, 78.53 ft.
- c Gage height, 83.42 ft.
- d Present datum.
- e Estimated.
- f From highwater mark, backwater from ice.
- g Discharge, 26 ft<sup>3</sup>/s.

