

## 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 poor. Backwater from Nett Lake occurs at times.

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	26	152	8.2	e2.4	e2.2	e1.2	e82	e58	113	9.9	4.5	1.2
2	23	126	8.1	e2.3	e2.3	e1.2	e135	e55	104	10	4.5	1.2
3	19	112	7.5	e2.3	e2.5	e1.2	175	e52	94	14	4.1	1.3
4	17	99	7.1	e2.3	e2.5	e1.1	200	e49	86	29	3.3	1.4
5	16	91	6.8	e2.2	e2.5	e1.1	234	e47	80	30	3.2	1.4
6	15	80	7.1	e2.2	e2.4	e1.2	243	e45	72	28	3.1	1.3
7	14	69	6.6	e2.1	e2.2	e1.2	203	e44	65	23	2.7	1.2
8	14	63	6.0	e2.1	e2.0	e1.1	183	43	58	18	2.5	1.2
9	14	60	5.7	e2.0	e1.9	e1.1	162	42	48	16	2.2	1.3
10	15	52	5.3	e2.0	e1.9	e1.1	148	58	42	14	2.0	1.4
11	14	e48	4.9	e2.0	e1.9	e1.1	141	61	37	13	1.9	1.3
12	13	e44	4.7	e2.0	e1.9	e1.1	137	57	35	12	1.7	1.3
13	12	e41	e4.5	e1.9	e2.0	e1.1	127	52	31	11	1.5	1.3
14	13	e38	e4.3	e1.9	e2.1	e1.1	116	55	55	11	1.5	1.3
15	12	e35	e4.1	e1.9	e2.0	e1.1	108	57	106	12	1.4	1.4
16	13	e32	e4.0	e1.9	e1.9	e1.0	103	51	100	12	1.3	1.4
17	12	e30	e3.8	e1.8	e1.8	e1.0	e98	45	71	12	1.4	1.4
18	12	e28	e3.7	e1.8	e1.7	e1.0	e95	37	49	9.4	1.7	1.3
19	12	e26	e3.5	e1.8	e1.7	e1.1	e90	34	35	9.7	1.6	1.5
20	13	e24	e3.4	e1.9	e1.6	e1.1	e86	31	26	9.2	1.5	1.5
21	13	e22	e3.3	e1.9	e1.5	e1.1	e82	30	20	8.6	1.3	1.5
22	14	e20	e3.2	e1.9	e1.5	e1.2	e79	33	16	8.2	1.3	1.4
23	14	e18	e3.1	e1.9	e1.4	e1.2	e76	33	14	8.2	1.2	1.6
24	14	e17	e3.0	e1.9	e1.4	e1.3	e73	32	12	6.9	1.3	1.6
25	14	e15	e2.9	e1.9	e1.3	e1.3	e72	45	11	6.4	1.2	1.6
26	14	e13	e2.8	e1.9	e1.3	e1.5	e71	255	10	5.7	1.2	1.6
27	14	12	e2.7	e1.9	e1.3	e1.7	e70	297	9.3	5.6	1.2	1.7
28	14	11	e2.7	e2.0	e1.2	e2.1	e68	226	8.5	5.1	1.2	1.4
29	15	9.9	e2.6	e2.0	---	e4.4	e65	171	9.3	5.0	1.2	1.7
30	77	9.0	e2.5	e2.0	---	e13	e61	143	9.3	4.9	1.2	1.6
31	172	---	e2.4	e2.1	---	e40	---	127	---	4.8	1.3	---
TOTAL	674	1,396.9	140.5	62.2	51.9	91.0	3,583	2,365	1,426.4	372.6	61.2	42.3
MEAN	21.7	46.6	4.53	2.01	1.85	2.94	119	76.3	47.5	12.0	1.97	1.41
MAX	172	152	8.2	2.4	2.5	40	243	297	113	30	4.5	1.7
MIN	12	9.0	2.4	1.8	1.2	1.0	61	30	8.5	4.8	1.2	1.2
AC-FT	1,340	2,770	279	123	103	180	7,110	4,690	2,830	739	121	84
CFSM	0.68	1.46	0.14	0.06	0.06	0.09	3.76	2.40	1.50	0.38	0.06	0.04
IN.	0.79	1.63	0.16	0.07	0.06	0.11	4.19	2.77	1.67	0.44	0.07	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	18.0	19.5	6.40	2.23	1.58	3.70	81.2	60.0	23.6	12.3	14.6	12.0
MAX	65.4	46.6	18.6	6.18	4.61	10.9	148	136	58.8	32.5	75.7	48.0
(WY)	(1996)	(2005)	(2002)	(1997)	(1998)	(1998)	(2001)	(1996)	(2002)	(1996)	(2001)	(1999)
MIN	0.42	1.94	0.64	0.11	0.00	0.47	7.09	11.9	6.78	3.70	0.69	0.04
(WY)	(2004)	(2004)	(2003)	(2003)	(1999)	(2002)	(2003)	(2003)	(1998)	(2001)	(2004)	(1998)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	8,636.26		10,267.0		21.3	
ANNUAL MEAN	23.6		28.1		4.13	
HIGHEST ANNUAL MEAN					38.3	2001
LOWEST ANNUAL MEAN					4.13	2003
HIGHEST DAILY MEAN	220	Jun 1	297	May 27	432	May 23, 2001
LOWEST DAILY MEAN	0.58	Aug 18	1.0	Mar 16-18	a0.00	Sep 8, 1998
ANNUAL SEVEN-DAY MINIMUM	0.63	Aug 17	1.1	Mar 12	0.00	Sep 8, 1998
MAXIMUM PEAK FLOW			327	May 26	bc445	May 23, 2001
MAXIMUM PEAK STAGE			82.88	May 26	cd84.80	Apr 7, 1997
INSTANTANEOUS LOW FLOW			f1.0	Mar 16	a0.00	Sep 7, 1998
ANNUAL RUNOFF (AC-FT)	17,130		20,360		15,400	
ANNUAL RUNOFF (CFSM)	0.742		0.885		0.668	
ANNUAL RUNOFF (INCHES)	10.10		12.01		9.08	
10 PERCENT EXCEEDS	67		86		56	
50 PERCENT EXCEEDS	7.5		6.9		5.5	
90 PERCENT EXCEEDS	0.75		1.3		0.44	

- a Many days, several years.
- b Gage height, 83.42 ft.
- c Present datum.
- d From highwater mark, backwater from ice.
- e Estimated.
- f Estimated, minimum daily.

