

## 05131455 NETT LAKE RIVER NEAR NETT LAKE, MN

LOCATION.--Lat 48°06'38", long 93°11'13", in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, T.65 N., R.22 W., Koochiching County, Hydrologic Unit 09030005, downstream from dam at outlet of Nett Lake, 4 miles west of the town of Nett Lake.

DRAINAGE AREA.--128 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage 1,200.00 ft above sea level (NGVD of 1929). Prior to October 2002, water stage recorder at site 450 ft downstream at datum 70.05 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Regulation from Nett Lake Dam upstream of gage.

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	1.7	28	48	74	e0.11	e0.00	0.76	1.00	5.3	92	3.6	4.6
2	1.1	29	47	68	e0.07	e0.00	0.49	1.2	6.0	93	3.4	2.0
3	1.1	28	46	65	e0.05	e0.00	0.30	1.0	6.1	97	5.9	1.4
4	0.85	28	43	61	e0.03	e0.00	0.34	0.87	5.6	88	6.9	1.4
5	0.71	45	42	57	e0.02	e0.00	0.84	0.81	5.3	92	7.7	1.9
6	0.61	57	40	31	e0.02	e0.00	1.4	0.60	7.3	98	8.5	1.8
7	0.58	54	39	6.6	e0.01	e0.00	1.1	0.74	8.5	128	8.5	1.8
8	0.49	55	38	6.7	e0.01	e0.00	1.4	0.70	11	167	8.7	1.7
9	0.60	54	36	6.5	e0.00	e0.00	2.0	0.39	12	185	10	1.4
10	0.87	50	35	6.1	e0.00	e0.00	1.7	0.29	16	201	11	1.1
11	1.1	46	76	5.6	e0.00	e0.00	1.1	0.21	16	200	9.5	1.1
12	0.37	45	107	5.5	e0.00	e0.00	0.80	0.24	18	199	7.7	1.2
13	0.33	47	101	5.0	e0.00	e0.00	0.84	0.32	18	194	8.2	0.74
14	0.37	46	96	4.8	e0.00	e0.00	0.67	0.36	21	191	8.3	0.59
15	0.33	45	93	4.4	e0.00	e0.00	0.28	0.31	20	204	9.5	0.60
16	0.37	44	145	3.9	e0.00	e0.03	0.14	0.21	18	204	9.6	0.63
17	0.43	43	185	3.8	e0.00	e0.04	0.08	0.17	22	213	9.2	0.67
18	0.41	41	176	3.7	e0.00	e0.05	0.12	0.11	26	196	10	0.46
19	0.40	51	164	3.4	e0.00	e0.05	0.08	0.09	27	190	10	0.42
20	0.50	69	155	2.8	e0.00	e0.06	0.07	0.14	22	180	8.4	0.53
21	0.60	67	145	2.3	e0.00	e0.07	0.17	0.12	24	184	8.3	0.50
22	0.64	66	136	1.7	e0.00	e0.07	0.28	0.08	23	176	9.8	0.42
23	16	62	134	1.3	e0.00	e0.08	0.37	0.17	22	166	7.5	0.48
24	29	61	123	e1.0	e0.00	e0.09	0.22	0.22	27	155	7.0	0.42
25	30	59	114	e0.85	e0.00	0.10	0.49	0.20	37	152	7.3	0.59
26	28	57	106	e0.64	e0.00	0.23	0.83	0.20	42	148	6.5	0.67
27	28	56	100	e0.50	e0.00	0.29	0.75	0.11	79	147	5.0	0.49
28	30	54	95	e0.37	e0.00	0.27	0.44	0.11	87	67	3.9	0.47
29	32	50	89	e0.28	---	0.23	0.57	0.10	91	2.3	3.3	0.43
30	31	52	83	e0.21	---	0.30	0.91	6.2	95	2.2	3.7	0.39
31	29	---	86	e0.16	---	0.67	---	4.8	---	3.2	4.5	---
TOTAL	267.46	1,489	2,923	434.11	0.32	2.63	19.54	22.07	818.1	4,414.7	231.4	30.90
MEAN	8.63	49.6	94.3	14.0	0.011	0.085	0.65	0.71	27.3	142	7.46	1.03
MAX	32	69	185	74	0.11	0.67	2.0	6.2	95	213	11	4.6
MIN	0.33	28	35	0.16	0.00	0.00	0.07	0.08	5.3	2.2	3.3	0.39
AC-FT	531	2,950	5,800	861	0.6	5.2	39	44	1,620	8,760	459	61
CFSM	0.07	0.39	0.74	0.11	0.00	0.00	0.01	0.01	0.21	1.11	0.06	0.01
IN.	0.08	0.43	0.85	0.13	0.00	0.00	0.01	0.01	0.24	1.28	0.07	0.01

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

	70.3	94.9	65.0	29.7	17.0	15.0	266	296	109	63.1	23.2	33.3
MEAN	187	211	128	54.3	37.3	40.1	464	566	322	142	98.0	154
(WY)	(2001)	(2002)	(2002)	(1997)	(1996)	(1998)	(1999)	(2001)	(2001)	(2003)	(2001)	(1999)
MIN	0.22	0.063	1.38	1.50	0.011	0.085	0.65	0.71	11.9	1.41	0.059	0.000
(WY)	(1999)	(1999)	(1999)	(1999)	(2003)	(2003)	(2003)	(2003)	(2000)	(1996)	(1998)	(1998)

05131455 NETT LAKE RIVER NEAR NETT LAKE, MN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1996 - 2003	
ANNUAL TOTAL	19,486.46		10,653.23		90.3	
ANNUAL MEAN	53.4		29.2		162	
HIGHEST ANNUAL MEAN					2001	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	403	Jun 25	213	Jul 17	1,470	Apr 13, 1999
LOWEST DAILY MEAN	0.13	Mar 21	0.00	Feb 9-Mar 15	a0.00	Jun 21, 1996
ANNUAL SEVEN-DAY MINIMUM	0.13	Mar 21	0.00	Feb 9	0.00	Aug 13, 1996
MAXIMUM PEAK FLOW			225	Jul 17	1,490	Apr 13, 1999
MAXIMUM PEAK STAGE			74.85	Jul 17	b7.26	Apr 13, 1999
ANNUAL RUNOFF (AC-FT)	38,650		21,130		65,420	
ANNUAL RUNOFF (CFSM)	0.42		0.23		0.71	
ANNUAL RUNOFF (INCHES)	5.66		3.10		9.59	
10 PERCENT EXCEEDS	162		97		274	
50 PERCENT EXCEEDS	28		2.8		24	
90 PERCENT EXCEEDS	0.21		0.01		0.14	

a Many days, several years..  
 b Site and datum then in use.  
 c Estimated.

