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^2.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	13	92	96	22	4.3	1.8	e159	e69	e120	4.5	0.04
2	0.11	15	185	91	19	4.5	2.2	e157	e114	e118	6.0	0.07
3	0.12	15	315	90	17	5.1	0.29	e142	e130	e105	3.1	0.07
4	0.13	17	285	87	15	5.5	0.56	e137	e137	e120	3.0	0.06
5	0.22	18	261	82	14	5.7	0.33	e137	e142	e120	0.44	0.06
6	0.21	18	242	82	14	5.5	1.3	e125	e149	e115	0.22	0.05
7	0.23	18	223	e78	14	5.5	1.9	e135	e178	e83	0.90	0.08
8	0.24	18	205	e74	15	5.3	1.8	e125	e202	108	0.39	1.4
9	0.17	18	189	e69	15	5.4	1.0	e123	e214	94	0.45	3.7
10	0.14	18	174	e65	14	5.3	0.85	e147	e277	94	0.67	4.6
11	0.12	18	163	e62	13	6.9	0.94	e252	e310	110	0.91	2.8
12	0.08	48	153	60	12	6.2	1.5	e234	e261	103	1.9	8.7
13	0.07	66	144	58	11	5.0	1.7	e214	e243	89	1.9	5.3
14	0.06	63	135	59	11	5.3	1.9	e283	e240	98	1.3	5.6
15	0.05	60	181	56	11	5.2	2.2	e323	e231	89	0.95	6.6
16	0.05	59	239	52	7.3	3.1	2.0	e313	e222	92	0.65	0.52
17	0.05	60	225	51	5.9	3.7	3.4	e379	e216	83	0.62	0.40
18	0.05	59	206	50	6.0	3.8	9.4	e431	e188	71	0.17	2.1
19	0.06	90	192	e50	4.5	3.9	12	e412	e175	75	0.10	2.9
20	0.06	130	179	e46	4.2	3.7	21	e394	e154	73	0.08	3.8
21	0.06	122	165	e44	4.4	3.7	26	e386	e167	e53	0.07	6.4
22	0.05	117	154	e43	4.4	3.8	37	e365	e149	e56	0.06	13
23	0.05	113	145	e41	4.3	3.8	37	e368	e152	e50	0.05	17
24	0.05	126	137	e38	4.2	e1.7	55	e125	e145	e46	0.05	18
25	0.03	123	129	e34	4.2	0.63	46	e2.0	e140	e42	0.05	23
26	0.03	115	122	e32	4.2	0.48	48	e1.4	e138	33	0.06	27
27	0.04	109	118	e32	4.1	0.33	96	e1.6	e133	19	0.04	34
28	0.04	104	113	e34	4.3	0.40	160	e1.8	e130	7.7	0.03	33
29	0.03	101	107	e32	4.0	0.16	e164	e2.1	e125	5.4	0.03	31
30	5.3	97	102	e29	---	0.29	e154	e15	e120	7.6	0.02	34
31	11	---	100	25	---	0.38	---	e32	---	6.3	0.02	---
TOTAL	19.01	1,948	5,380	1,742	283.0	114.57	891.07	5,921.9	5,251	2,286.0	28.73	285.25
MEAN	0.61	64.9	174	56.2	9.76	3.70	29.7	191	175	73.7	0.93	9.51
MAX	11	130	315	96	22	6.9	164	431	310	120	6.0	34
MIN	0.03	13	92	25	4.0	0.16	0.29	1.4	69	5.4	0.02	0.04
AC-FT	38	3,860	10,670	3,460	561	227	1,770	11,750	10,420	4,530	57	566
CFSM	0.00	0.51	1.36	0.44	0.08	0.03	0.23	1.49	1.37	0.58	0.01	0.07
IN.	0.01	0.57	1.56	0.51	0.08	0.03	0.26	1.72	1.53	0.66	0.01	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	62.5	91.5	77.1	32.6	16.2	13.7	240	284	116	64.3	20.7	30.7
MAX	187	211	174	56.2	37.3	40.1	464	566	322	142	98.0	154
(WY)	(2001)	(2002)	(2004)	(2004)	(1996)	(1998)	(1999)	(2001)	(2001)	(2003)	(2001)	(1999)
MIN	0.22	0.06	1.38	1.50	0.01	0.08	0.65	0.71	11.9	1.41	0.06	0.00
(WY)	(1999)	(1999)	(1999)	(1999)	(2003)	(2003)	(2003)	(2003)	(2000)	(1996)	(1998)	(1998)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	13,320.78		24,150.53			
ANNUAL MEAN	36.5		66.0		87.6	
HIGHEST ANNUAL MEAN					162	2001
LOWEST ANNUAL MEAN					29.2	2003
HIGHEST DAILY MEAN	315	Dec 3	431	May 18	1,470	Apr 13, 1999
LOWEST DAILY MEAN	0.00	Feb 9	0.02	Aug 30,31	a0.00	Jun 21, 1996
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 9	0.03	Aug 26	0.00	Aug 13, 1996
MAXIMUM PEAK FLOW			b458	May 17	1,490	Apr 13, 1999
MAXIMUM PEAK STAGE					c7.26	Apr 13, 1999
ANNUAL RUNOFF (AC-FT)	26,420		47,900		63,460	
ANNUAL RUNOFF (CFSM)	0.285		0.516		0.684	
ANNUAL RUNOFF (INCHES)	3.87		7.02		9.30	
10 PERCENT EXCEEDS	152		182		258	
50 PERCENT EXCEEDS	1.8		18		24	
90 PERCENT EXCEEDS	0.01		0.08		0.14	

a Many days, several years.
b Estimated from Nett Lake Dam record.
c Site and datum then in use.
e Estimated.