

## 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	338	318	55	e8.1	e2.9	12	239	785	1.5	1.3	0.77
2	16	379	299	e54	e7.8	e2.9	15	229	715	1.8	1.2	0.99
3	17	378	278	e53	e7.3	e2.9	23	382	646	1.7	0.93	1.2
4	59	364	251	e51	e7.2	e3.0	38	483	600	1.7	0.91	1.4
5	108	369	239	e48	e7.1	e3.3	26	456	540	1.7	1.1	1.3
6	110	372	226	e45	e7.0	e3.6	6.1	427	619	2.0	1.5	1.1
7	101	321	209	e43	e6.7	e3.5	7.4	409	723	2.2	1.6	0.66
8	90	339	194	e40	e6.4	e3.3	7.7	372	683	2.1	1.4	0.81
9	103	329	181	e37	e6.2	e3.1	8.1	362	583	2.0	1.0	0.75
10	97	279	165	e35	e6.0	3.0	8.8	368	565	1.9	1.1	0.99
11	93	258	155	e33	e5.8	2.7	19	374	533	1.4	0.81	0.95
12	87	257	145	e31	e5.5	2.9	37	365	479	1.6	0.90	0.79
13	87	240	179	e29	e5.3	2.4	58	384	474	1.8	0.87	0.67
14	81	224	154	e27	e5.0	2.0	74	454	489	1.8	1.0	0.60
15	77	211	132	e26	e4.7	1.8	67	437	487	2.1	1.2	0.71
16	59	202	116	e24	e4.4	1.5	77	429	476	2.1	1.3	0.80
17	65	311	113	e23	e4.2	1.4	94	428	460	1.7	1.1	0.84
18	140	373	103	e21	e4.0	1.2	89	405	428	1.3	1.3	0.80
19	217	354	95	e20	e3.8	1.1	108	382	395	1.5	0.95	0.79
20	188	308	98	e19	e3.5	1.0	111	161	372	1.9	0.94	0.86
21	180	295	87	e18	e3.3	1.1	104	3.3	350	1.9	1.0	0.91
22	171	500	85	e17	e3.2	1.1	118	2.9	178	2.1	1.2	0.77
23	163	617	85	e16	e3.1	1.1	103	3.4	65	1.6	1.3	0.78
24	155	658	87	e15	e3.0	1.1	95	3.3	48	1.9	1.4	0.77
25	153	552	79	e13	e3.0	1.4	139	4.6	58	1.4	1.4	0.69
26	157	497	69	e12	e2.9	1.7	229	24	57	1.5	1.3	0.59
27	156	455	65	e12	e2.9	1.8	303	107	45	1.7	0.90	0.73
28	149	414	58	e11	e2.9	2.1	288	197	27	1.7	0.89	0.58
29	155	378	53	e10	---	7.9	279	295	1.3	1.5	0.90	0.36
30	234	350	54	e9.3	---	8.5	261	369	1.0	1.5	0.95	0.54
31	285	---	56	e8.6	---	5.7	---	632	---	1.5	0.83	---
TOTAL	3,772	10,922	4,428	855.9	140.3	83.0	2,805.1	9,187.5	11,882.3	54.1	34.48	24.50
MEAN	122	364	143	27.6	5.01	2.68	93.5	296	396	1.75	1.11	0.82
MAX	285	658	318	55	8.1	8.5	303	632	785	2.2	1.6	1.4
MIN	16	202	53	8.6	2.9	1.0	6.1	2.9	1.0	1.3	0.81	0.36
AC-FT	7,480	21,660	8,780	1,700	278	165	5,560	18,220	23,570	107	68	49
CFSM	0.95	2.84	1.12	0.22	0.04	0.02	0.73	2.32	3.09	0.01	0.01	0.01
IN.	1.10	3.17	1.29	0.25	0.04	0.02	0.82	2.67	3.45	0.02	0.01	0.01

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

MEAN	68.4	119	83.6	32.1	15.1	12.6	225	286	144	58.0	18.8	27.7
MAX	187	364	174	56.2	37.3	40.1	464	566	396	142	98.0	154
(WY)	(2001)	(2005)	(2004)	(2004)	(1996)	(1998)	(1999)	(2001)	(2005)	(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	35,925.52		44,189.18		90.9	
ANNUAL MEAN	98.2		121		29.2	
HIGHEST ANNUAL MEAN					162	2001
LOWEST ANNUAL MEAN					29.2	2003
HIGHEST DAILY MEAN	658	Nov 24	785	Jun 1	1,470	Apr 13, 1999
LOWEST DAILY MEAN	0.02	Aug 30	0.36	Sep 29	a0.00	Jun 21, 1996
ANNUAL SEVEN-DAY MINIMUM	0.03	Aug 26	0.61	Sep 24	0.00	Aug 13, 1996
MAXIMUM PEAK FLOW			842	May 31	1,490	Apr 13, 1999
MAXIMUM PEAK STAGE			76.42	May 31	b7.26	Apr 13, 1999
INSTANTANEOUS LOW FLOW			0.22	Sep 29	a0.00	Jun 21, 1996
ANNUAL RUNOFF (AC-FT)	71,260		87,650		65,880	
ANNUAL RUNOFF (CFSM)	0.767		0.946		0.710	
ANNUAL RUNOFF (INCHES)	10.44		12.84		9.65	
10 PERCENT EXCEEDS	284		388		279	
50 PERCENT EXCEEDS	54		21		24	
90 PERCENT EXCEEDS	0.60		0.97		0.17	

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

