

RAINY RIVER BASIN

05131448 WOOD DUCK CREEK NEAR NETT LAKE, MN

LOCATION.--Lat 48°09'24", long 93°08'20", in SW¹/₄SW¹/₄ 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 mi².

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

GAGE.--Water-stage recorder. Elevation of gage 1,270 ft above sea level (from topographic map).

REMARKS.--Records poor. Backwater from Nett Lake occurs at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	21	e31	e7.1	e2.9	e0.70	e0.47	24	12	23	0.90	0.52
2	2.7	23	e29	e6.9	e2.8	e0.68	e0.51	22	13	16	0.87	0.50
3	2.7	24	e26	e6.7	e2.6	e0.65	e0.55	22	13	9.4	0.84	0.44
4	2.3	21	e25	e6.5	e2.5	e0.61	e0.66	23	11	8.2	0.75	0.45
5	2.2	18	e25	e6.3	e2.4	e0.58	e0.85	24	10	13	0.70	0.45
6	2.6	15	e27	e6.1	e2.3	e0.55	e1.1	24	10	16	0.72	0.43
7	2.8	14	e30	e5.9	e2.2	e0.52	e1.5	24	9.1	12	0.98	0.41
8	3.6	12	e32	e5.7	e2.1	e0.49	e2.0	25	8.5	14	1.0	0.38
9	3.4	13	e34	e5.4	e2.0	e0.47	e3.0	34	11	11	0.94	0.31
10	4.5	13	e29	e5.3	e1.9	e0.46	e5.0	48	12	9.3	0.92	0.30
11	13	11	e26	e5.2	e1.8	e0.44	e9.0	54	32	6.3	0.89	0.29
12	18	10	e23	e5.1	e1.7	e0.44	e17	55	87	4.0	0.96	0.25
13	19	8.4	e21	e4.9	e1.7	e0.43	e30	54	132	3.5	0.87	0.26
14	22	7.2	e20	e4.7	e1.6	e0.43	e45	61	136	2.8	0.87	0.22
15	19	6.0	e19	e4.6	e1.5	e0.43	e80	58	115	2.6	0.85	0.24
16	18	5.5	e17	e4.6	e1.4	e0.43	e110	51	86	2.3	0.93	0.22
17	19	5.0	e16	e4.5	e1.4	e0.43	132	46	60	2.0	1.4	0.23
18	16	5.1	e15	e4.4	e1.3	e0.42	140	40	44	1.8	1.4	0.23
19	15	3.3	e14	e4.4	e1.2	e0.42	144	34	47	1.7	1.4	0.21
20	13	3.2	e13	e4.3	e1.1	e0.42	125	28	59	1.6	1.2	0.22
21	13	3.3	e12	e4.2	e1.1	e0.42	104	25	53	1.4	1.0	0.20
22	14	3.3	e11	e4.1	e1.0	e0.42	84	22	52	1.3	0.88	0.18
23	14	3.1	e11	e4.1	e0.96	e0.42	64	15	108	1.2	0.81	0.18
24	15	3.8	e10	e3.9	e0.92	e0.42	52	17	140	1.2	0.73	0.20
25	12	13	e9.7	e3.8	e0.87	e0.42	44	16	150	1.1	0.68	0.18
26	17	e36	e9.2	e3.6	e0.83	e0.43	37	11	122	1.0	0.66	0.17
27	19	e30	e8.8	e3.5	e0.79	e0.43	31	12	94	1.1	0.63	0.16
28	20	e25	e8.4	e3.4	e0.73	e0.43	28	13	64	1.1	0.56	0.17
29	19	e23	e8.1	e3.2	---	e0.44	27	16	43	1.1	0.54	0.20
30	23	e26	e7.8	e3.1	---	e0.44	25	17	31	1.0	0.54	0.20
31	22	---	e7.5	e3.0	---	e0.45	---	14	---	1.0	0.56	---
TOTAL	389.6	405.2	575.5	148.5	45.60	14.72	1343.64	929	1764.6	173.0	26.98	8.40
MEAN	12.6	13.5	18.6	4.79	1.63	0.47	44.8	30.0	58.8	5.58	0.87	0.28
MAX	23	36	34	7.1	2.9	0.70	144	61	150	23	1.4	0.52
MIN	2.2	3.1	7.5	3.0	0.73	0.42	0.47	11	8.5	1.0	0.54	0.16
AC-FT	773	804	1140	295	90	29	2670	1840	3500	343	54	17
CFSM	0.40	0.42	0.58	0.15	0.05	0.01	1.41	0.94	1.85	0.18	0.03	0.01
IN.	0.46	0.47	0.67	0.17	0.05	0.02	1.57	1.09	2.06	0.20	0.03	0.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.2	20.6	8.04	2.62	1.89	4.02	85.7	68.0	17.7	14.4	20.4	12.5
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	3.11	6.00	3.02	0.19	0.000	0.47	20.1	18.4	6.78	3.70	0.83	0.042
(WY)	1999	1999	2000	1999	1999	2002	2000	1998	1998	2001	1998	1998

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

ANNUAL TOTAL	13498.8	5824.74	
ANNUAL MEAN	37.0	16.0	23.2
HIGHEST ANNUAL MEAN			38.3 2001
LOWEST ANNUAL MEAN			9.77 1998
HIGHEST DAILY MEAN	432 May 23	150 Jun 25	432 May 23 2001
LOWEST DAILY MEAN	1.3 Mar 6	0.16 Sep 27	0.00a Sep 8 1998
ANNUAL SEVEN-DAY MINIMUM	1.3 Mar 6	0.18 Sep 22	0.00 Sep 8 1998
MAXIMUM PEAK FLOW		153b Jun 25	445c May 23 2001
MAXIMUM PEAK STAGE		8.85d Apr 15	12.88f Apr 7 1997
INSTANTANEOUS LOW FLOW		0.15 Sep 25	0.00 Sep 7 1998
ANNUAL RUNOFF (AC-FT)	26770	11550	16800
ANNUAL RUNOFF (CFSM)	1.16	0.50	0.73
ANNUAL RUNOFF (INCHES)	15.79	6.81	9.91
10 PERCENT EXCEEDS	126	44	57
50 PERCENT EXCEEDS	8.7	4.7	6.7
90 PERCENT EXCEEDS	1.4	0.43	0.60

- a Many days, several years.
- b Gage height, 8.65 ft.
- c Gage height, 11.50 ft.
- d Backwater from ice.
- e Estimated.
- f From highwater mark, backwater from ice.



