

LAKE OF THE WOODS BASIN

05124480 KAWISHIWI RIVER NEAR ELY, MN

LOCATION.--Lat 47° 55'22", long 91° 32'06", in SE¹/₄SE¹/₄ sec. 24, T.63 N., R.10 W., Lake County, Hydrologic Unit 09030001, in Superior National Forest, on left bank upstream from rapids, 2 mi upstream from South Kawishiwi River, 2.2 mi southwest of Fernberg Lookout Tower and 14 mi east of Ely.

DRAINAGE AREA.--253 mi².

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,450 ft above sea level, from topographic map.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	67	83	228	172	114	79	64	721	540
173	67	33							
2	72	83	228	170	112	80	66	734	518
174	65	32							
3	70	83	228	166	109	79	70	732	493
170	64	30							
4	68	85	228	163	107	78	77	725	470
163	65	29							
5	67	85	228	172	105	78	95	728	451
159	65	29							
6	66	93	228	171	102	76	133	713	435
156	63	29							
7	63	107	228	166	100	74	148	702	416
150	61	28							
8	61	110	228	163	98	73	152	699	398
145	59	27							
9	60	117	228	160	97	72	156	692	380
139	57	26							
10	58	119	228	158	96	71	164	678	362
135	55	26							
11	56	119	223	154	95	70	172	673	345
131	53	25							
12	55	119	222	152	93	68	180	682	327
127	51	24							

13	53	119	220	147	90	67	190	686	307
125	49	24							
14	51	118	216	145	90	67	205	703	290
121	47	23							
15	50	120	213	142	88	67	221	704	276
117	46	22							
16	50	132	213	139	87	67	232	706	265
114	48	22							
17	55	166	213	135	86	67	244	710	252
111	49	23							
18	57	178	213	132	86	66	262	701	248
108	47	22							
19	55	184	209	131	86	65	284	704	238
102	45	21							
20	54	193	205	129	85	64	308	699	233
98	47	21							
21	53	200	204	127	83	64	337	691	222
96	48	20							
22	53	206	202	126	81	64	370	680	213
92	47	19							
23	56	209	197	122	79	64	412	685	210
90	45	19							
24	61	212	192	123	78	63	451	688	214
88	44	18							
25	62	213	187	122	76	65	494	671	215
87	43	19							
26	62	213	183	118	76	65	540	658	205
85	41	19							
27	61	213	180	117	75	65	594	646	197
83	39	18							
28	60	213	178	116	74	63	641	626	193
79	38	19							
29	62	213	177	113	---	63	679	606	189
76	36	21							
30	82	222	175	112	---	63	705	585	182
73	35	21							
31	83	---	173	112	---	63	---	564	---
70	35	---							
TOTAL	1883	4527	6475	4375	2548	2130	8646	21192	9284
3637	1554	709							
MEAN	60.7	151	209	141	91.0	68.7	288	684	309
117	50.1	23.6							
MAX	83	222	228	172	114	80	705	734	540
174	67	33							
MIN	50	83	173	112	74	63	64	564	182
70	35	18							
AC-FT	3730	8980	12840	8680	5050	4220	17150	42030	18410
7210	3080	1410							
CFSM	.24	.60	.83	.56	.36	.27	1.14	2.70	1.22
.46	.20	.09							
IN.	.28	.67	.95	.64	.37	.31	1.27	3.12	1.37

.53 .23 .10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1997, BY WATER YEAR (WY)

	JUN	JUL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MEAN	153	167	136	93.4	68.7	56.9	236	670	388	
208	145	139								
MAX	881	684	345	163	107	85.2	785	1133	1070	
467	758	698								
(WY)	1978	1971	1983	1984	1971	1969	1976	1979	1970	
1968	1988	1988								
MIN	12.1	9.43	7.25	5.32	4.77	5.87	8.95	13.3	115	
74.5	46.7	18.5								
(WY)	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977
1980	1976	1976								

<i>SUMMARY STATISTICS</i>	<i>FOR 1996 CALENDAR YEAR</i>	<i>FOR 1997 WATER YEAR</i>	<i>WATER YEARS 1966 - 1997</i>		
ANNUAL TOTAL	94547	66960			
ANNUAL MEAN	258	183			206
HIGHEST ANNUAL MEAN					
313	1971				
LOWEST ANNUAL MEAN					
94.5	1977				
HIGHEST DAILY MEAN	1310	May 20	734	May 2	1710
Apr 24	1976				
LOWEST DAILY MEAN	50	Oct 15	18	Sep 24,27	4.5a
Jan 31-Feb 2, 1977					
ANNUAL SEVEN-DAY MIN	53	Oct 11	19	Sep 22	4.6
Jan 29	1977				
INSTANTANEOUS PEAK FLOW			738	May 2	1720
Apr 24	1976				
INSTANTANEOUS PEAK STAGE			4.92	May 2	5.92
Apr 24	1976				
INSTANTANEOUS LOW FLOW			18	Sep 24	4.5
Jan 30	1977				
ANNUAL RUNOFF (AC-FT)	187500		132800		149300
ANNUAL RUNOFF (CFSM)	1.02		.73		.81
ANNUAL RUNOFF (INCHES)	13.90		9.85		11.07
10 PERCENT EXCEEDS	602		540		520
50 PERCENT EXCEEDS	135		114		107
90 PERCENT EXCEEDS	62		42		38