

RAINY RIVER 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.--254 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	99	168	200	107	72	90	581	379	205	471	126
2	23	98	171	194	107	72	95	569	377	210	435	124
3	23	96	173	191	105	71	99	556	372	211	403	127
4	22	94	177	187	102	71	107	539	360	223	373	148
5	22	93	198	183	100	70	114	523	360	282	344	145
6	23	93	219	179	97	68	127	513	357	333	323	136
7	23	93	225	174	95	67	134	507	363	414	306	133
8	23	94	230	169	94	66	151	497	366	504	289	149
9	23	95	232	164	92	66	174	481	371	599	274	154
10	23	102	235	161	90	65	197	476	368	630	268	157
11	22	113	237	156	e89	63	218	465	367	630	252	157
12	23	114	237	154	e88	62	239	456	362	614	274	157
13	22	116	237	149	e87	62	261	440	351	635	277	162
14	22	122	235	146	86	61	288	424	334	620	256	166
15	23	125	235	143	85	60	327	409	316	598	242	165
16	34	127	233	143	e84	59	368	408	308	628	235	163
17	64	129	231	140	e83	e58	404	406	292	617	225	161
18	81	136	234	140	e82	e58	434	391	278	606	218	159
19	87	146	234	137	82	e57	464	376	266	595	211	157
20	92	149	233	134	81	e57	488	388	250	583	200	153
21	94	149	234	130	79	e57	509	404	237	567	191	145
22	94	149	233	126	78	e57	531	405	235	549	183	141
23	94	152	229	123	77	e57	553	419	238	565	175	139
24	94	154	227	120	78	e57	571	423	227	608	168	135
25	97	154	223	118	77	57	586	419	216	641	162	142
26	99	155	220	115	76	57	594	415	209	649	156	228
27	100	156	217	e114	74	57	600	412	210	635	151	260
28	100	158	215	e113	74	67	603	403	203	618	143	286
29	100	159	216	e111	---	72	595	391	202	588	134	312
30	101	164	209	e110	---	73	589	378	205	549	127	331
31	101	---	204	109	---	79	---	382	---	512	128	---
TOTAL	1773	3784	6801	4533	2449	1975	10510	13856	8979	16218	7594	5118
MEAN	57.2	126	219	146	87.5	63.7	350	447	299	523	245	171
MAX	101	164	237	200	107	79	603	581	379	649	471	331
MIN	22	93	168	109	74	57	90	376	202	205	127	124
AC-FT	3520	7510	13490	8990	4860	3920	20850	27480	17810	32170	15060	10150
CFSM	.23	.50	.86	.58	.34	.25	1.38	1.76	1.18	2.06	.96	.67
IN.	.26	.55	1.00	.66	.36	.29	1.54	2.03	1.32	2.38	1.11	.75

e Estimated

05124480 KAWISHIWI RIVER NEAR ELY, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	146	161	135	92.8	67.7	56.4	240	652	378	213	144	136
MAX	881	684	345	163	107	85.2	785	1133	1070	523	758	698
(WY)	1978	1971	1983	1984	1971	1969	1976	1979	1970	1999	1988	1988
MIN	12.1	9.43	7.25	5.32	4.77	5.87	8.95	13.3	115	65.1	36.0	18.5
(WY)	1977	1977	1977	1977	1977	1977	1977	1977	1977	1998	1998	1976

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1966 - 1999
ANNUAL TOTAL	40120	83590	
ANNUAL MEAN	110	229	203
HIGHEST ANNUAL MEAN			313 1971
LOWEST ANNUAL MEAN			81.3 1998
HIGHEST DAILY MEAN	455	Apr 26 649	Jul 26 1710 Apr 24 1976
LOWEST DAILY MEAN	18	Jan 16 22 ^a	Oct 4 4.5 ^b Jan 31 1977
ANNUAL SEVEN-DAY MINIMUM	18	Feb 1 23	Oct 8 4.6 Jan 29 1977
INSTANTANEOUS PEAK FLOW		658	Jul 26 1720 Apr 24 1976
INSTANTANEOUS PEAK STAGE		4.80	Jul 26 5.92 Apr 24 1976
INSTANTANEOUS LOW FLOW		20	Oct 5 4.5 Jan 30 1977
ANNUAL RUNOFF (AC-FT)	79580	165800	147100
ANNUAL RUNOFF (CFSM)	.43	.90	.80
ANNUAL RUNOFF (INCHES)	5.88	12.24	10.86
10 PERCENT EXCEEDS	278	517	510
50 PERCENT EXCEEDS	59	166	107
90 PERCENT EXCEEDS	19	66	36

a Also occurred Oct. 5, 11, 13, and 14.
 b Occurred Jan. 31 to Feb. 2, 1977.

