

RAINY RIVER BASIN

05124480 KAWISHIWI RIVER NEAR ELY, MN

LOCATION.--Lat 47°55'22", long 91°32'06", in SE^{1/4}SE^{1/4} sec. 24, T.63 N., R.10 W., Lake County, Hydrologic Unit 09030001, in Superior National Forest, on left bank 100 ft 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	55	69	60	44	35	38	122	206	173	263	109
2	42	55	68	59	44	35	38	124	204	185	259	107
3	41	56	68	59	44	35	38	127	200	197	256	103
4	46	55	68	58	44	35	39	131	195	196	246	99
5	50	56	68	58	44	35	39	134	190	191	238	95
6	50	56	68	57	43	35	39	137	186	190	235	92
7	49	56	68	56	43	35	39	142	180	200	233	90
8	48	56	68	56	42	34	38	147	179	192	223	88
9	48	57	68	56	41	33	38	153	197	187	212	86
10	47	58	67	56	41	33	39	162	194	200	204	83
11	47	58	67	55	41	33	40	168	189	207	195	81
12	51	59	66	54	40	33	40	170	183	207	187	94
13	52	60	66	53	40	32	40	174	176	207	180	95
14	51	62	66	52	39	32	41	181	170	210	174	89
15	51	63	65	52	39	32	43	183	165	231	169	85
16	50	63	65	51	39	32	46	183	160	236	165	81
17	50	63	64	50	39	33	50	183	166	236	160	78
18	50	64	65	50	38	33	53	183	186	234	153	78
19	53	64	66	50	38	33	60	197	180	240	149	106
20	53	65	67	50	38	34	70	217	171	267	147	115
21	53	66	66	49	38	35	88	219	164	266	159	112
22	53	67	66	48	38	36	96	221	157	263	150	111
23	52	68	65	47	38	36	101	221	159	262	144	106
24	52	69	65	47	37	37	104	219	166	264	139	102
25	52	69	64	47	37	37	108	215	172	262	136	101
26	53	68	64	46	36	36	111	210	189	260	131	100
27	53	68	63	46	36	37	114	203	189	256	124	101
28	54	68	63	46	35	38	116	203	187	251	124	100
29	55	69	62	45	---	38	118	197	183	246	122	96
30	56	68	62	45	---	38	120	202	180	252	116	95
31	55	---	61	44	---	38	---	208	---	257	112	---
TOTAL	1,560	1,861	2,038	1,602	1,116	1,078	1,944	5,536	5,423	7,025	5,505	2,878
MEAN	50.3	62.0	65.7	51.7	39.9	34.8	64.8	179	181	227	178	95.9
MAX	56	69	69	60	44	38	120	221	206	267	263	115
MIN	41	55	61	44	35	32	38	122	157	173	112	78
AC-FT	3,090	3,690	4,040	3,180	2,210	2,140	3,860	10,980	10,760	13,930	10,920	5,710
CFSM	0.20	0.24	0.26	0.20	0.16	0.14	0.26	0.70	0.71	0.89	0.70	0.38
IN.	0.23	0.27	0.30	0.23	0.16	0.16	0.28	0.81	0.79	1.03	0.81	0.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	147	158	134	93.0	67.5	56.3	237	633	364	209	147	134
(WY)	(1978)	(1971)	(1983)	(1984)	(1971)	(1971)	(1969)	(1976)	(1979)	(1970)	(1999)	(1988)
MAX	881	684	345	163	107	85.2	785	1,133	1,070	523	758	698
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1998)	(1976)
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)	(1977)	(1998)	(1976)

05124480 KAWISHIWI RIVER NEAR ELY, MN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1966 - 2003
ANNUAL TOTAL	38,919	37,566	
ANNUAL MEAN	107	103	
HIGHEST ANNUAL MEAN			199
LOWEST ANNUAL MEAN			313
HIGHEST DAILY MEAN	277	May 12	81.3
LOWEST DAILY MEAN	41	Oct 3	1998
ANNUAL SEVEN-DAY MINIMUM	43	Sep 27	Mar 13-16
MAXIMUM PEAK FLOW			270
MAXIMUM PEAK STAGE			3.99
INSTANTANEOUS LOW FLOW			32
ANNUAL RUNOFF (AC-FT)	77,200	74,510	144,400
ANNUAL RUNOFF (CFSM)	0.42	0.41	0.78
ANNUAL RUNOFF (INCHES)	5.70	5.50	10.66
10 PERCENT EXCEEDS	194	207	486
50 PERCENT EXCEEDS	80	67	108
90 PERCENT EXCEEDS	53	38	37

a Occurred Jan. 31 to Feb. 2, 1977.

