

## RAINY RIVER BASIN

05124480 KAWISHIWI RIVER NEAR ELY, MN

LOCATION.--Lat 47°55'22", long 91°32'06", in SE<sup>1/4</sup>SE<sup>1/4</sup> 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 mi<sup>2</sup>.

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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	76	88	95	81	65	82	797	403	236	108	52
2	93	75	87	95	83	67	86	790	410	225	103	50
3	92	74	87	94	84	67	92	777	418	214	99	49
4	91	75	87	93	82	67	97	761	422	207	93	47
5	89	75	87	91	82	66	102	738	426	197	88	50
6	88	74	87	90	83	65	109	710	429	186	84	60
7	87	73	87	89	83	66	121	684	440	177	81	61
8	86	73	87	88	81	65	142	654	451	171	79	58
9	85	72	88	86	81	64	150	624	451	162	81	56
10	84	72	88	86	80	64	154	596	448	155	86	54
11	84	72	88	88	79	64	158	569	444	184	96	52
12	88	74	88	89	77	63	164	547	442	176	92	50
13	88	75	88	88	77	63	170	528	437	176	86	49
14	85	75	89	90	76	65	179	503	431	178	80	51
15	83	75	89	89	75	64	188	482	423	174	76	56
16	80	75	93	88	74	63	204	463	428	177	74	65
17	78	77	94	89	74	63	225	469	419	176	72	66
18	77	79	93	87	73	62	271	461	405	173	71	64
19	75	79	93	86	72	61	362	453	390	172	68	62
20	74	79	93	84	71	60	439	444	374	169	65	61
21	73	78	93	85	71	59	512	433	363	163	62	61
22	73	77	93	84	70	58	581	422	352	163	60	61
23	74	80	92	83	70	57	636	413	338	152	58	59
24	74	86	92	82	69	56	674	401	323	143	56	61
25	75	87	91	81	68	62	709	398	307	135	55	59
26	74	87	92	84	68	67	740	391	297	129	55	57
27	74	86	93	86	67	68	762	394	284	123	54	55
28	75	87	94	84	66	71	782	384	271	120	52	52
29	75	87	94	82	65	78	794	373	259	123	50	50
30	76	88	94	81	---	79	799	368	249	117	51	48
31	77	---	96	79	---	80	---	392	---	114	51	---
TOTAL	2,522	2,342	2,805	2,696	2,182	2,019	10,484	16,419	11,534	5,167	2,286	1,676
MEAN	81.4	78.1	90.5	87.0	75.2	65.1	349	530	384	167	73.7	55.9
MAX	95	88	96	95	84	80	799	797	451	236	108	66
MIN	73	72	87	79	65	56	82	368	249	114	50	47
AC-FT	5,000	4,650	5,560	5,350	4,330	4,000	20,800	32,570	22,880	10,250	4,530	3,320
CFSM	0.32	0.31	0.36	0.34	0.30	0.26	1.38	2.09	1.51	0.66	0.29	0.22
IN.	0.37	0.34	0.41	0.39	0.32	0.30	1.54	2.40	1.69	0.76	0.33	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	145	156	133	92.9	67.7	56.5	240	630	365	208	145	132
(WY)	(1978)	(1971)	(1983)	(1984)	(1971)	(1969)	(1976)	(1979)	(1970)	(1999)	(1988)	(1988)
MAX	881	684	345	163	107	85.2	785	1,133	1,070	523	758	698
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)

## 05124480 KAWISHIWI RIVER NEAR ELY, MN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1966 - 2004
ANNUAL TOTAL	39,776	62,132	
ANNUAL MEAN	109	170	
HIGHEST ANNUAL MEAN			199
LOWEST ANNUAL MEAN			313
HIGHEST DAILY MEAN	267	Jul 20	81.3
LOWEST DAILY MEAN	32	Mar 13	1,850
ANNUAL SEVEN-DAY MINIMUM	32	Mar 10	May 3, 2001
MAXIMUM PEAK FLOW		799	a4.5
MAXIMUM PEAK STAGE		47	Jan 31, 1977
INSTANTANEOUS LOW FLOW		50	4.6
ANNUAL RUNOFF (AC-FT)	78,900	Aug 29	Jan 29, 1977
ANNUAL RUNOFF (CFSM)	0.429	801	1,870
ANNUAL RUNOFF (INCHES)	5.83	Apr 30	May 4, 2001
10 PERCENT EXCEEDS	207	5.01	6.07
50 PERCENT EXCEEDS	88	46	4.5
90 PERCENT EXCEEDS	38	Sep 4	Jan 30, 1977
		123,200	143,800
		0.668	0.782
		9.10	10.62
		439	483
		87	107
		61	38

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

e Estimated.

