

05126210 SOUTH KAWISHIWI RIVER ABOVE WHITE IRON LAKE NEAR ELY, MN

LOCATION.--Lat 47°50'31", long 91°47'56", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T.62 N., R.11 W., Lake County, Hydrologic Unit 09030001, on right bank 0.5 mi above inlet to White Iron Lake, 1.9 mi downstream (north) of dam at State Highway 1, and 5 mi southeast of Ely.

DRAINAGE AREA.--837 mi².

PERIOD OF RECORD.--August 1975 to September 1978, May 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,420 ft above mean sea level (from topographic map).

REMARKS.--Records good. Flow regulated by Minnesota Power Co. dam located 2.1 mi above gage at outlet of Birch Lake.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	338	285	275	465	202	650	1,020	1,540	989	172	59
2	207	467	289	276	456	202	566	968	1,460	982	171	55
3	208	592	286	274	449	201	491	776	1,460	966	172	54
4	217	700	283	273	444	202	432	581	1,450	890	171	54
5	267	883	281	274	439	203	461	598	1,470	608	170	53
6	267	832	283	272	434	201	506	782	1,590	468	171	50
7	262	760	286	271	428	200	698	1,020	1,570	479	168	50
8	262	754	289	270	420	200	974	1,910	1,360	473	168	50
9	264	749	286	270	415	199	1,450	2,120	1,340	479	169	48
10	262	660	284	269	409	200	1,760	2,260	1,230	484	150	48
11	262	541	284	269	404	201	1,760	2,190	1,240	561	116	47
12	261	537	283	271	399	201	1,450	2,100	1,280	646	97	51
13	263	535	282	269	396	201	1,230	2,050	1,410	636	96	51
14	262	530	282	265	401	201	1,200	2,300	1,530	590	97	48
15	261	510	280	262	395	201	1,070	2,350	1,830	472	98	49
16	260	481	280	263	387	199	966	2,380	1,950	466	97	49
17	265	438	278	264	385	199	986	2,390	1,970	461	105	50
18	253	340	278	271	380	198	1,030	2,380	1,980	450	131	50
19	235	338	278	265	376	197	1,150	2,390	1,960	406	128	52
20	222	340	280	262	374	197	1,330	2,290	1,980	316	130	49
21	223	346	278	261	368	198	1,500	2,220	1,950	244	118	49
22	221	353	279	261	340	200	1,480	2,110	1,870	233	94	49
23	230	350	279	261	300	200	1,450	1,950	1,810	223	73	51
24	226	325	279	260	284	201	1,530	1,800	1,590	209	64	51
25	231	298	278	259	206	200	1,510	1,800	1,150	199	53	51
26	240	286	276	261	202	199	1,450	2,070	923	173	50	52
27	236	288	276	259	203	200	1,410	2,030	809	174	61	52
28	231	289	274	257	203	197	1,330	1,970	874	172	65	52
29	241	288	274	257	---	207	1,200	1,870	947	173	65	53
30	278	286	277	256	---	301	1,090	1,780	980	172	64	52
31	295	---	277	338	---	498	---	1,720	---	171	64	---
TOTAL	7,609	14,434	8,704	8,315	10,362	6,606	34,110	56,175	44,503	13,965	3,548	1,529
MEAN	245	481	281	268	370	213	1,137	1,812	1,483	450	114	51.0
MAX	295	883	289	338	465	498	1,760	2,390	1,980	989	172	59
MIN	197	286	274	256	202	197	432	581	809	171	50	47
AC-FT	15,090	28,630	17,260	16,490	20,550	13,100	67,660	111,400	88,270	27,700	7,040	3,030
CFSM	0.29	0.57	0.34	0.32	0.44	0.25	1.36	2.16	1.77	0.54	0.14	0.06
IN.	0.34	0.64	0.39	0.37	0.46	0.29	1.52	2.50	1.98	0.62	0.16	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

MEAN	802	537	458	359	299	261	1,486	1,430	1,306	777	311	548
MAX	2,831	1,325	871	666	381	397	3,730	2,125	2,394	1,253	842	1,934
(WY)	(1978)	(1978)	(1978)	(1978)	(2004)	(2004)	(1976)	(1978)	(1978)	(1978)	(1978)	(1977)
MIN	84.4	78.3	84.4	80.4	70.2	97.7	138	187	758	380	94.3	51.0
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(2003)	(2004)	(1976)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	219,478		209,860		727	
ANNUAL MEAN	600		575		408	
HIGHEST ANNUAL MEAN					1,241	1978
LOWEST ANNUAL MEAN					408	1977
HIGHEST DAILY MEAN	2,980	Apr 25	2,390	May 17, 19	8,040	Apr 22, 1976
LOWEST DAILY MEAN	118	Sep 3	47	Sep 11	27	Mar 22, 1977
ANNUAL SEVEN-DAY MINIMUM	121	Aug 30	49	Sep 9	34	Aug 13, 1976
MAXIMUM PEAK FLOW			2,420	May 18	8,080	Apr 22, 1976
MAXIMUM PEAK STAGE			6.93	May 18	11.42	Apr 22, 1976
INSTANTANEOUS LOW FLOW			a46	Sep 11	19	Mar 22, 1977
ANNUAL RUNOFF (AC-FT)	435,300		416,300		526,700	
ANNUAL RUNOFF (CFSM)	0.716		0.687		0.869	
ANNUAL RUNOFF (INCHES)	9.75		9.33		11.80	
10 PERCENT EXCEEDS	1,730		1,590		1,780	
50 PERCENT EXCEEDS	320		281		394	
90 PERCENT EXCEEDS	143		65		84	

a Due in part to regulation.

