

Water-Data Report 2009

05124480 KAWISHIWI RIVER NEAR ELY, MN

Rainy Basin
Rainy Headwaters Subbasin

LOCATION.--Lat 47°55'22", long 91°32'06" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.24, T.163 N., R.10 W., Lake County, MN, 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.

SURFACE-WATER RECORDS

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	67	93	208	144	88	68	76	713	444	151	91	44
2	66	95	208	141	88	67	77	769	425	146	88	43
3	65	96	205	139	86	66	77	814	404	142	85	42
4	64	97	203	141	85	65	76	854	383	137	81	40
5	63	106	201	137	83	64	75	893	373	131	77	39
6	62	121	200	134	82	63	74	951	354	126	74	38
7	62	134	196	133	81	63	73	970	337	122	72	36
8	65	151	194	130	79	62	74	977	325	118	70	34
9	64	158	191	126	78	61	74	976	320	114	68	34
10	64	164	189	123	80	61	75	965	308	109	67	35
11	66	171	190	121	80	64	77	946	295	104	65	34
12	74	177	185	119	81	63	80	930	283	98	63	34
13	81	187	183	117	80	62	85	923	275	94	61	33
14	84	194	188	115	79	61	90	895	263	94	59	33
15	85	196	196	112	77	60	97	872	250	99	66	32
16	86	198	191	110	77	60	108	868	238	97	67	31
17	87	200	186	113	77	61	126	844	226	97	65	30
18	87	201	182	112	77	62	153	822	216	95	62	29
19	87	203	177	110	75	61	174	795	225	92	60	28
20	87	202	174	108	74	61	193	765	221	90	67	28
21	86	201	175	105	73	61	215	738	212	94	69	27
22	86	203	171	103	72	61	238	705	225	96	65	26
23	84	203	169	102	71	62	264	674	224	91	62	25
24	85	204	166	100	70	70	296	641	210	89	58	24
25	88	206	162	98	70	74	336	613	195	92	55	24
26	93	207	159	96	70	75	377	586	182	91	53	23
27	95	208	156	94	70	75	448	564	173	87	51	24
28	94	210	153	93	68	73	506	537	162	87	51	27
29	94	210	152	91	---	73	564	510	159	84	50	26
30	93	210	149	90	---	72	649	487	155	87	48	24
31	93	---	145	89	---	73	---	465	---	90	46	---
Total	2,457	5,206	5,604	3,546	2,171	2,024	5,827	24,062	8,062	3,244	2,016	947
Mean	79.3	174	181	114	77.5	65.3	194	776	269	105	65.0	31.6
Max	95	210	208	144	88	75	649	977	444	151	91	44
Min	62	93	145	89	68	60	73	465	155	84	46	23
Ac-ft	4,870	10,330	11,120	7,030	4,310	4,010	11,560	47,730	15,990	6,430	4,000	1,880
Cfs/m	0.31	0.68	0.71	0.45	0.31	0.26	0.76	3.06	1.06	0.41	0.26	0.12
In.	0.36	0.76	0.82	0.52	0.32	0.30	0.85	3.52	1.18	0.48	0.30	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	149	155	131	91.9	66.7	55.4	231	624	364	201	135	124
Max	881	684	345	163	107	85.2	785	1,133	1,070	523	758	698
(WY)	(1978)	(1971)	(1983)	(1984)	(1971)	(1969)	(1976)	(1979)	(1970)	(1999)	(1988)	(1988)
Min	12.0	9.43	7.25	5.32	4.77	5.87	8.95	13.3	115	65.1	36.0	14.9
(WY)	(2007)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1998)	(1998)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1966 - 2009	
Annual total	83,036		65,166			
Annual mean	227		179		195	
Highest annual mean					313	1971
Lowest annual mean					73.5	2007
Highest daily mean	1,140	May 13	977	May 8	1,850	May 3, 2001
Lowest daily mean	37	Apr 1	23	Sep 26	^a 4.5	Jan 31, 1977
Annual seven-day minimum	38	Mar 29	25	Sep 24	4.6	Jan 29, 1977
Maximum peak flow			980	May 7	1,870	May 4, 2001
Maximum peak stage			5.13	May 7	6.07	May 4, 2001
Instantaneous low flow			22	Sep 27	4.5	Jan 30, 1977
Annual runoff (ac-ft)	164,700		129,300		141,100	
Annual runoff (cfsm)	0.893		0.703		0.767	
Annual runoff (inches)	12.16		9.54		10.42	
10 percent exceeds	686		433		481	
50 percent exceeds	98		94		104	
90 percent exceeds	49		54		36	

^a Also occurred Feb. 1-2, 1977.

