Water-Data Report 2009

05125000 SOUTH KAWISHIWI RIVER NEAR ELY, MN

Rainy Basin
Rainy Headwaters Subbasin

LOCATION.--Lat 47°50′24″, long 91°41′43″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.23, T.62 N., R.11 W., Lake County, MN, Hydrologic Unit 09030001, on left bank, 2.5 mi northeast of State Highway 1, 5 mi upstream from Birch Lake, and 9 mi southeast of Ely.

DRAINAGE AREA.--

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1951 to September 1961, April 1976 to September 1978, May 2003 to current year.

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	225	389	404	240	167	156	226	2,150	770	336	175	211
2	252	391	394	236	163	157	232	2,180	732	320	176	207
3	294	390	383	236	160	156	232	2,190	690	308	174	202
4	343	387	372	240	159	152	232	2,190	652	293	172	195
5	386	401	360	235	157	147	231	2,180	631	278	168	187
6	406	425	352	232	154	141	229	2,200	601	263	166	179
7	417	443	343	227	151	137	229	2,160	573	249	163	172
8	424	475	333	220	146	134	232	2,100	554	236	162	164
9	404	509	322	217	144	131	236	2,030	544	222	159	159
10	390	567	317	215	147	133	240	1,960	524	212	156	154
11	389	645	312	211	146	141	248	1,880	507	201	152	149
12	407	702	302	208	147	141	262	1,820	495	187	146	143
13	426	783	295	206	146	140	283	1,760	486	175	142	138
14	439	793	300	208	145	137	307	1,680	473	168	137	133
15	451	776	314	209	144	134	343	1,610	454	171	149	128
16	472	746	301	211	146	134	393	1,580	439	164	149	122
17	496	715	293	218	149	136	474	1,530	423	158	143	118
18	511	683	287	212	150	137	593	1,510	408	151	137	114
19	516	655	279	203	152	136	710	1,470	424	145	135	111
20	512	624	276	195	155	138	862	1,430	405	142	148	108
21	497	594	280	188	155	146	1,030	1,390	388	150	150	105
22	479	566	272	181	156	150	1,180	1,330	407	158	143	103
23	458	536	271	178	157	159	1,310	1,270	419	153	138	99
24	442	512	265	176	157	179	1,410	1,200	420	151	138	96
25	428	491	263	178	155	193	1,490	1,130	416	154	142	93
26	421	473	259	181	154	199	1,570	1,070	408	155	150	91
27	410	458	252	184	155	203	1,750	1,020	396	154	163	92
28	397	444	245	184	155	204	1,870	962	382	158	185	96
29	392	429	245	181	---	207	1,980	906	370	161	203	95
30	391	416	242	177	---	212	2,100	861	353	166	210	90
31	391	---	241	171	---	216	---	810	---	170	212	---
Total	12,866	16,418	9,374	6,358	4,272	4,886	22,484	49,559	14,744	6,109	4,943	4,054
Mean	415	547	302	205	153	158	749	1,599	491	197	159	135
Max	516	793	404	240	167	216	2,100	2,200	770	336	212	211
Min	225	387	241	171	144	131	226	810	353	142	135	90
Ac-ft	25,520	32,570	18,590	12,610	8,470	9,690	44,600	98,300	29,240	12,120	9,800	8,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	415	313	233	172	131	114	694	1,256	775	397	242	325
Max	1,733	761	456	295	179	158	2,278	3,141	1,440	885	1,125	1,099
(WY)	(1978)	(2008)	(1952)	(1978)	(1957)	(2009)	(1976)	(1954)	(1978)	(1952)	(1952)	(1977)
Min	36.0	49.0	45.8	37.1	33.5	57.4	130	179	290	132	80.7	41.6
(WY)	(1961)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1958)	(2006)	(1961)	(2005)

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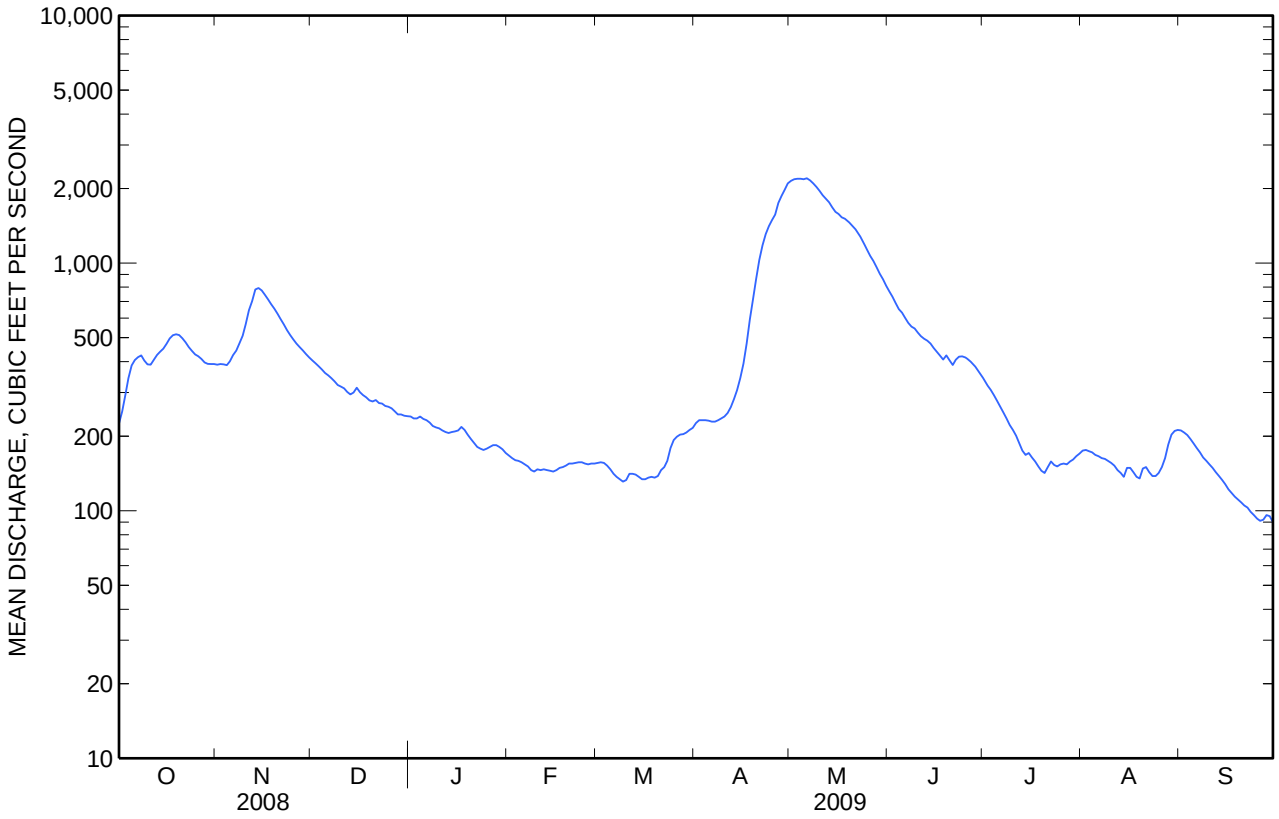
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1952 - 2009	
Annual total	199,072		156,067			
Annual mean	544		428		427	
Highest annual mean					673	1978
Lowest annual mean					233	1958
Highest daily mean	2,870	Apr 29	2,200	May 6	5,110	May 5, 1954
Lowest daily mean	90	Sep 1	90	Sep 30	27	Oct 10, 1960
Annual seven-day minimum	91	Mar 27	93	Sep 24	29	Oct 6, 1960
Maximum peak flow			2,220	May 6	5,130	May 4, 1954
Maximum peak stage			5.39	May 6	7.25	May 4, 1954
Instantaneous low flow			[a]89	Sep 27	25	Oct 12, 1960
Annual runoff (ac-ft)	394,900		309,600		309,000	
10 percent exceeds	1,630		1,020		1,070	
50 percent exceeds	277		236		213	
90 percent exceeds	99		141		90	

[a] Also occurred Sept 30. Falling stage.