

05127500 BASSWOOD RIVER NEAR WINTON, MN
(International Gaging Station)

LOCATION.--Lat 48°04'57", long 91°39'09", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T.65 N., R.10 W., Lake County, Hydrologic Unit 09030001, in Superior National Forest, on island in Jackfish Bay of Basswood Lake, used to determine discharge at outlet (lat 48°06'21", long 91°38'51", in sec. 19, T.65 N., R.10 W., on international boundary 14 mi northeast of Winton).

DRAINAGE AREA.--1,740 mi², approximately, (above outlet of Basswood Lake).

PERIOD OF RECORD.--March to June 1924, September 1925 to March 1928, January 1930 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 955: Drainage area. WSP 1145: 1935, 1937.

GAGE.--Water-stage recorder. Datum of gage is 1,296.80 ft above sea level (NGVD of 1928, levels by Geodetic Survey of Canada). Prior to Oct. 27, 1938, nonrecording gages at several sites in vicinity of gage, at datum 3.0 ft higher. Oct. 28, 1938 to Sept. 30, 1966, water-stage recorder at datum 3.0 ft higher.

REMARKS.--Records good. Some regulation by power plant on Kawishiwi River at Winton, and by many lakes located upstream from station.

COOPERATION.--This station is one of the international gaging stations maintained by the United States under agreement with Canada.

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	410	456	560	562	600	625	680	1,950	3,760	2,360	637	269
2	404	473	561	592	593	619	707	1,940	3,680	2,320	614	262
3	397	493	558	592	592	610	722	1,920	3,580	2,300	599	258
4	389	499	545	592	592	597	750	1,890	3,480	2,270	562	254
5	384	523	544	592	593	592	773	1,870	3,420	2,200	536	247
6	377	543	544	592	592	589	805	1,910	3,340	2,110	509	235
7	374	555	541	592	592	580	841	1,880	3,290	2,010	484	226
8	370	583	537	592	592	570	889	1,950	3,230	1,930	464	220
9	372	605	535	592	593	562	942	2,060	3,120	1,860	452	214
10	372	611	526	592	599	557	1,010	2,210	3,060	1,780	434	209
11	368	628	523	592	598	548	1,120	2,380	3,000	1,710	419	201
12	366	639	549	594	599	544	1,230	2,540	2,910	1,620	390	208
13	373	648	557	594	600	539	1,320	2,700	2,840	1,540	368	218
14	376	650	559	592	614	529	1,400	2,850	2,880	1,470	354	209
15	371	651	556	592	617	521	1,440	2,970	2,930	1,410	338	205
16	357	651	549	592	617	517	1,450	3,090	2,920	1,370	330	198
17	353	651	551	592	617	513	1,460	3,160	2,940	1,320	350	193
18	355	647	544	592	618	513	1,470	3,230	2,960	1,260	394	185
19	352	649	546	592	617	520	1,480	3,360	2,960	1,230	379	199
20	347	651	568	592	622	520	1,510	3,420	2,980	1,160	370	204
21	348	650	560	592	625	520	1,550	3,500	2,980	1,110	356	199
22	345	651	560	600	626	528	1,580	3,600	2,980	1,060	350	192
23	370	630	556	607	626	534	1,610	3,690	2,960	1,010	343	188
24	378	622	552	604	626	547	1,650	3,710	2,890	936	334	184
25	380	612	552	610	625	569	1,700	3,740	2,830	888	322	183
26	384	603	552	611	628	585	1,760	3,830	2,750	834	314	177
27	385	596	546	609	631	594	1,830	3,840	2,690	787	307	174
28	386	590	536	609	633	601	1,870	3,830	2,590	754	302	164
29	394	583	535	609	---	614	1,910	3,820	2,470	730	295	161
30	426	574	538	608	---	631	1,940	3,820	2,430	698	290	157
31	445	---	559	601	---	655	---	3,800	---	667	282	---
TOTAL	11,708	17,917	16,999	18,474	17,077	17,543	39,399	90,460	90,850	44,704	12,478	6,193
MEAN	378	597	548	596	610	566	1,313	2,918	3,028	1,442	403	206
MAX	445	651	568	611	633	655	1,940	3,840	3,760	2,360	637	269
MIN	345	456	523	562	592	513	680	1,870	2,430	667	282	157
AC-FT	23,220	35,540	33,720	36,640	33,870	34,800	78,150	179,400	180,200	88,670	24,750	12,280
CFSM	0.22	0.34	0.32	0.34	0.35	0.33	0.75	1.68	1.74	0.83	0.23	0.12
IN.	0.25	0.38	0.36	0.39	0.37	0.38	0.84	1.93	1.94	0.96	0.27	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	1,056	1,000	875	728	599	572	1,233	3,661	2,800	1,809	1,115	961
MAX	5,320	3,879	2,510	1,475	1,229	1,143	5,069	9,114	7,332	4,453	3,487	5,034
(WY)	(1978)	(1971)	(1983)	(1966)	(1966)	(1966)	(1945)	(1950)	(1950)	(1944)	(1944)	(1988)
MIN	65.1	60.2	76.2	86.2	95.0	135	269	225	696	512	278	120
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1980)	(1980)	(1998)	(1976)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	399,189		383,802		1,379	
ANNUAL MEAN	1,091		1,052		2,643	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1958	
HIGHEST DAILY MEAN	3,730	May 5	3,840	May 27	15,200	May 24, 1950
LOWEST DAILY MEAN	345	Oct 22	157	Sep 30	58	Nov 3, 1976
ANNUAL SEVEN-DAY MINIMUM	351	Oct 16	171	Sep 24	58	Nov 7, 1976
MAXIMUM PEAK FLOW			3,850	May 26	15,600	May 24, 1950
MAXIMUM PEAK STAGE			5.31	May 26	a9.94	May 24, 1950
INSTANTANEOUS LOW FLOW			b153	Sep 30	55	Nov 18, 1976
ANNUAL RUNOFF (AC-FT)	791,800		761,300		998,900	
ANNUAL RUNOFF (CFSM)	0.627		0.604		0.792	
ANNUAL RUNOFF (INCHES)	8.53		8.21		10.77	
10 PERCENT EXCEEDS	2,890		2,920		3,190	
50 PERCENT EXCEEDS	644		594		860	
90 PERCENT EXCEEDS	388		319		371	

a Present datum.

b Falling stage.

