

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 mi<sup>2</sup>, 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	676	623	624	651	641	870	3,640	2,850	1,510	691	381
2	808	664	633	624	651	650	884	3,670	2,860	1,460	670	372
3	802	653	634	618	651	663	899	3,690	2,880	1,410	652	367
4	798	652	634	617	651	694	921	3,690	2,890	1,370	629	363
5	792	635	631	617	651	711	938	3,730	2,900	1,320	598	377
6	782	621	633	616	652	724	953	3,710	2,920	1,260	585	399
7	778	603	629	614	657	729	1,010	3,710	3,020	1,210	559	398
8	775	602	625	609	654	744	1,110	3,680	3,030	1,160	543	400
9	776	595	625	609	651	747	1,180	3,630	3,040	1,130	530	400
10	775	591	620	609	651	749	1,240	3,550	3,030	1,100	526	396
11	768	581	616	616	644	742	1,310	3,500	3,000	1,180	549	386
12	786	583	612	624	642	740	1,380	3,440	3,000	1,160	544	386
13	787	583	609	617	637	740	1,440	3,350	2,980	1,130	537	380
14	771	579	607	629	634	742	1,500	3,250	2,960	1,120	525	380
15	760	576	600	640	634	739	1,560	3,170	2,930	1,100	509	399
16	745	576	614	647	634	737	1,630	3,080	2,900	1,100	495	412
17	738	582	620	646	634	738	1,700	3,070	2,840	1,070	487	417
18	723	580	616	643	637	739	1,850	3,020	2,710	1,040	479	415
19	720	577	609	642	641	749	2,070	2,960	2,610	1,010	463	417
20	708	575	613	642	639	739	2,190	2,880	2,490	991	444	416
21	702	572	608	642	636	739	2,300	2,810	2,360	944	437	426
22	700	575	606	642	643	740	2,410	2,740	2,240	903	426	427
23	697	583	600	642	642	740	2,540	2,710	2,130	870	423	425
24	702	606	601	642	642	740	2,680	2,640	2,020	847	410	431
25	695	619	600	642	642	756	2,850	2,640	1,910	815	400	428
26	688	623	599	642	643	775	3,010	2,640	1,830	793	399	424
27	691	624	596	651	642	780	3,170	2,660	1,740	773	396	414
28	692	625	600	651	639	808	3,320	2,660	1,680	760	390	406
29	685	630	600	651	637	831	3,490	2,670	1,620	744	381	401
30	685	628	600	651	---	845	3,590	2,700	1,560	727	378	400
31	684	---	613	651	---	859	---	2,810	---	712	381	---
TOTAL	23,023	18,169	19,026	19,610	18,662	23,070	55,995	98,100	76,930	32,719	15,436	12,043
MEAN	743	606	614	633	644	744	1,866	3,165	2,564	1,055	498	401
MAX	810	676	634	651	657	859	3,590	3,730	3,040	1,510	691	431
MIN	684	572	596	609	634	641	870	2,640	1,560	712	378	363
AC-FT	45,670	36,040	37,740	38,900	37,020	45,760	111,100	194,600	152,600	64,900	30,620	23,890
CFSM	0.43	0.35	0.35	0.36	0.37	0.43	1.07	1.82	1.47	0.61	0.29	0.23
IN.	0.49	0.39	0.41	0.42	0.40	0.49	1.20	2.10	1.64	0.70	0.33	0.26

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	1,066	1,006	879	730	599	572	1,232	3,671	2,797	1,814	1,124	971
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	247,849		412,783			
ANNUAL MEAN	679		1,128		1,383	
HIGHEST ANNUAL MEAN					2,643	1950
LOWEST ANNUAL MEAN					557	1958
HIGHEST DAILY MEAN	1,830	Jul 21	3,730	May 5	15,200	May 24, 1950
LOWEST DAILY MEAN	276	Mar 19	363	Sep 4	58	Nov 3, 1976
ANNUAL SEVEN-DAY MINIMUM	281	Mar 15	374	Aug 30	58	Nov 7, 1976
MAXIMUM PEAK FLOW			3,760	May 5	15,600	May 24, 1950
MAXIMUM PEAK STAGE			5.30	May 5	9.94	May 24, 1950
INSTANTANEOUS LOW FLOW			355	Sep 5	55	Nov 18, 1976
ANNUAL RUNOFF (AC-FT)	491,600		818,800		1,002,000	
ANNUAL RUNOFF (CFSM)	0.390		0.648		0.795	
ANNUAL RUNOFF (INCHES)	5.30		8.83		10.80	
10 PERCENT EXCEEDS	1,300		2,890		3,200	
50 PERCENT EXCEEDS	609		673		867	
90 PERCENT EXCEEDS	305		426		371	

a Present datum.

