

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	471	423	402	356	307	300	485	927	1,130	1,530	644
2	343	465	421	400	354	305	300	482	942	1,220	1,530	626
3	339	456	418	400	348	305	298	482	949	1,270	1,510	590
4	355	448	417	400	345	305	305	478	948	1,280	1,470	571
5	361	441	414	400	341	305	305	483	945	1,290	1,440	544
6	355	432	415	400	341	304	305	475	957	1,320	1,410	515
7	348	433	410	397	340	299	305	476	944	1,360	1,400	498
8	342	433	409	394	337	295	305	480	934	1,360	1,370	470
9	341	434	409	391	339	292	305	492	913	1,370	1,340	451
10	339	429	406	390	336	292	309	499	897	1,480	1,310	435
11	340	429	406	388	336	292	310	502	878	1,530	1,280	432
12	359	430	403	387	336	292	315	505	861	1,570	1,230	511
13	358	433	401	382	336	288	319	522	840	1,630	1,170	511
14	359	435	402	380	336	288	319	544	831	1,680	1,120	503
15	351	436	400	379	336	288	323	567	814	1,800	1,060	491
16	351	435	400	379	336	284	322	590	806	1,820	1,010	489
17	351	435	400	378	336	280	331	610	840	1,820	970	490
18	358	431	403	369	336	278	340	629	852	1,800	910	494
19	365	426	406	369	336	276	356	660	851	1,800	868	614
20	368	429	412	369	336	278	381	691	847	1,810	831	660
21	373	429	412	369	336	286	420	706	836	1,830	845	677
22	368	430	412	369	336	288	434	715	818	1,820	793	693
23	368	433	413	369	332	289	449	726	848	1,810	767	703
24	373	432	415	369	328	290	458	736	899	1,800	738	715
25	386	432	412	369	325	289	474	745	938	1,760	720	737
26	401	429	412	369	319	292	481	753	1,000	1,720	703	753
27	417	429	412	369	314	298	489	756	1,030	1,680	689	768
28	434	427	410	369	312	303	490	786	1,050	1,630	697	791
29	447	423	410	369	---	305	490	809	1,070	1,570	692	804
30	454	423	406	369	---	305	489	871	1,100	1,560	678	808
31	461	---	403	362	---	305	---	898	---	1,530	659	---
TOTAL	11,520	13,048	12,692	11,806	9,399	9,103	11,027	19,153	27,365	49,050	32,740	17,988
MEAN	372	435	409	381	336	294	368	618	912	1,582	1,056	600
MAX	461	471	423	402	356	307	490	898	1,100	1,830	1,530	808
MIN	339	423	400	362	312	276	298	475	806	1,130	659	432
AC-FT	22,850	25,880	25,170	23,420	18,640	18,060	21,870	37,990	54,280	97,290	64,940	35,680
CFSM	0.21	0.25	0.24	0.22	0.19	0.17	0.21	0.36	0.52	0.91	0.61	0.34
IN.	0.25	0.28	0.27	0.25	0.20	0.19	0.24	0.41	0.59	1.05	0.70	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2003, BY WATER YEAR (WY)

MEAN	1,070	1,011	883	731	598	569	1,223	3,678	2,800	1,824	1,133	979
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1931 - 2003	
ANNUAL TOTAL	289,796		224,891		1,387	
ANNUAL MEAN	794		616		2,643	
HIGHEST ANNUAL MEAN					1950	
LOWEST ANNUAL MEAN					1958	
HIGHEST DAILY MEAN	1,720	May 15	1,830	Jul 21	15,200	May 24, 1950
LOWEST DAILY MEAN	339	Oct 3	276	Mar 19	58	Nov 3, 1976
ANNUAL SEVEN-DAY MINIMUM	346	Oct 6	281	Mar 15	58	Nov 7, 1976
MAXIMUM PEAK FLOW			1,850	Jul 17	15,600	May 24, 1950
MAXIMUM PEAK STAGE			4.10	Jul 17	9.94	May 24, 1950
INSTANTANEOUS LOW FLOW			276	Mar 18	55	Nov 18, 1976
ANNUAL RUNOFF (AC-FT)	574,800		446,100		1,005,000	
ANNUAL RUNOFF (CFSM)	0.46		0.35		0.80	
ANNUAL RUNOFF (INCHES)	6.20		4.81		10.83	
10 PERCENT EXCEEDS	1,480		1,300		3,210	
50 PERCENT EXCEEDS	665		432		870	
90 PERCENT EXCEEDS	403		305		371	

a Present datum.

