

## RAINY RIVER BASIN--Continued

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, 1928 datum, (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. Satellite telemeter at station. 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 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	739	1100	1320	830	597	680	3690	3240	1540	3330	1160
2	147	767	1100	1300	824	589	726	3660	3180	1500	3170	1150
3	144	776	1110	1270	811	585	776	3620	3090	1500	3050	1170
4	139	783	1130	1260	801	581	855	3530	3000	1560	2900	1260
5	137	790	1200	1240	785	573	929	3440	2910	1740	2730	1230
6	142	797	1230	1210	769	566	1030	3390	2840	1840	2600	1210
7	137	802	1260	1200	763	556	1100	3350	2820	2020	2480	1210
8	136	804	1270	1170	747	546	1190	3270	2770	2320	2370	1190
9	135	810	1280	1150	732	541	1280	3220	2710	2700	2270	1180
10	136	838	1320	1120	729	533	1420	3220	2640	3050	2170	1170
11	139	837	1340	1090	717	518	1550	3150	2590	3420	2070	1160
12	141	829	1370	1080	710	509	1700	3100	2530	3770	2130	1140
13	140	836	1400	1070	703	502	1860	3010	2450	4270	2150	1150
14	140	853	1420	1050	688	493	2010	2950	2380	4610	2120	1160
15	143	862	1430	1030	674	487	2200	2920	2330	4880	2110	1160
16	175	869	1450	1010	675	476	2380	2940	2270	5170	2090	1180
17	222	857	1470	998	671	494	2530	2960	2200	5290	2060	1210
18	233	879	1470	989	666	537	2670	2970	2110	5380	1990	1250
19	246	890	1470	986	653	558	2810	3010	2020	5400	1890	1270
20	260	904	1450	969	641	570	2970	3110	1930	5350	1810	1300
21	273	920	1440	958	634	576	3110	3180	1850	5250	1740	1310
22	285	924	1430	943	629	573	3250	3220	1810	5120	1680	1300
23	296	929	1410	921	617	568	3390	3240	1810	4950	1620	1300
24	318	961	1390	906	623	557	3490	3230	1740	4730	1550	1320
25	348	969	1380	892	616	550	3550	3220	1680	4590	1500	1350
26	389	995	1370	879	612	544	3600	3220	1630	4410	1440	1590
27	443	1020	1350	879	604	542	3640	3230	1650	4280	1400	1670
28	517	1040	1360	879	600	588	3660	3240	1600	4160	1320	1750
29	599	1060	1360	869	---	610	3690	3240	1550	3940	1270	1870
30	651	1070	1350	854	---	622	3710	3230	1570	3750	1230	1970
31	697	---	1330	841	---	643	---	3270	---	3520	1190	---
TOTAL	8059	26410	41440	32333	19524	17184	67756	100030	68900	116010	63430	39340
MEAN	260	880	1337	1043	697	554	2259	3227	2297	3742	2046	1311
MAX	697	1070	1470	1320	830	643	3710	3690	3240	5400	3330	1970
MIN	135	739	1100	841	600	476	680	2920	1550	1500	1190	1140
AC-FT	15990	52380	82200	64130	38730	34080	134400	198400	136700	230100	125800	78030
CFSM	.15	.51	.77	.60	.40	.32	1.30	1.85	1.32	2.15	1.18	.75
IN.	.17	.56	.89	.69	.42	.37	1.45	2.14	1.47	2.48	1.36	.84

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1069	1012	882	731	601	573	1230	3726	2853	1844	1116	984
MAX	5320	3879	2510	1475	1229	1143	5069	9114	7332	4453	3487	5034
(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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1931 - 1999
ANNUAL TOTAL	269984	600416	
ANNUAL MEAN	740	1645	1398
HIGHEST ANNUAL MEAN			2643
LOWEST ANNUAL MEAN			557
HIGHEST DAILY MEAN	2570	Apr 26	5400 Jul 19
LOWEST DAILY MEAN	135	Oct 9	135 Oct 9
ANNUAL SEVEN-DAY MINIMUM	137	Oct 4	137 Oct 4
INSTANTANEOUS PEAK FLOW			5420 Jul 18
INSTANTANEOUS PEAK STAGE			6.09 Jul 18
INSTANTANEOUS LOW FLOW			133 Oct 5
ANNUAL RUNOFF (AC-FT)	535500	1191000	1013000
ANNUAL RUNOFF (CFSM)	.43	.95	.80
ANNUAL RUNOFF (INCHES)	5.77	12.84	10.92
10 PERCENT EXCEEDS	1670	3340	3240
50 PERCENT EXCEEDS	394	1260	868
90 PERCENT EXCEEDS	178	535	371

a Present datum.

