05127500 BASSWOOD RIVER NEAR WINTON, MN

Rainy Basin
Rainy Headwaters Subbasin

LOCATION.--Lat 48°04′57″, long 91°39′09″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.30, T.65 N., R.10 W., Lake County, MN, 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^2.

SURFACE-WATER RECORDS

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. Unpublished, 2009: 1977(M).

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, non-recording 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.

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

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

05127500 BASSWOOD RIVER NEAR WINTON, MN—Continued

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	503	1,050	1,330	1,020	709	648	1,060	3,940	3,420	1,450	753	572
2	513	1,050	1,310	1,010	707	641	1,090	4,190	3,260	1,390	750	561
3	515	1,040	1,290	998	707	638	1,110	4,420	3,130	1,350	748	553
4	520	1,030	1,270	1,010	707	626	1,120	4,620	3,000	1,310	734	548
5	523	1,070	1,240	1,010	707	612	1,130	4,810	2,910	1,260	721	542
6	525	1,140	1,210	995	705	600	1,130	5,030	2,820	1,220	706	533
7	528	1,150	1,190	984	685	592	1,120	5,120	2,710	1,190	695	525
8	552	1,160	1,160	976	672	586	1,100	5,180	2,620	1,140	678	518
9	555	1,170	1,140	975	664	576	1,080	5,210	2,540	1,100	663	505
10	580	1,190	1,130	966	658	569	1,060	5,220	2,440	1,030	657	492
11	638	1,210	1,120	948	654	579	1,050	5,220	2,350	983	649	480
12	720	1,230	1,120	934	652	579	1,040	5,260	2,270	937	634	467
13	785	1,270	1,120	934	652	579	1,040	5,330	2,200	899	619	459
14	833	1,320	1,110	924	649	579	1,040	5,290	2,130	885	605	447
15	865	1,390	1,110	910	649	582	1,060	5,270	2,060	864	649	439
16	901	1,450	1,120	891	649	588	1,100	5,230	1,990	829	656	428
17	939	1,490	1,120	899	652	590	1,190	5,120	1,930	820	655	410
18	965	1,530	1,120	898	657	598	1,310	4,980	1,870	800	639	401
19	975	1,520	1,120	891	657	616	1,450	4,860	1,850	779	649	386
20	980	1,510	1,120	889	657	640	1,590	4,760	1,800	762	695	376
21	1,010	1,500	1,110	873	657	667	1,750	4,670	1,760	785	680	364
22	1,010	1,490	1,110	861	657	688	1,910	4,590	1,780	799	673	354
23	1,020	1,460	1,090	852	657	722	2,070	4,500	1,760	782	663	348
24	1,030	1,450	1,080	850	657	801	2,230	4,390	1,720	779	655	337
25	1,040	1,440	1,070	842	649	853	2,430	4,280	1,670	794	628	327
26	1,050	1,420	1,060	829	649	876	2,590	4,150	1,640	795	621	315
27	1,050	1,400	1,040	804	649	900	2,920	4,040	1,610	792	610	312
28	1,050	1,390	1,030	791	649	928	3,160	3,910	1,540	777	632	312
29	1,050	1,370	1,030	770	---	948	3,390	3,800	1,530	766	617	308
30	1,050	1,350	1,030	767	---	969	3,680	3,670	1,490	753	599	297
31	1,040	---	1,030	745	---	1,000	---	3,570	---	750	586	---
Total	25,315	39,240	35,130	28,046	18,673	21,370	49,000	144,630	65,800	29,570	20,519	12,916
Mean	817	1,308	1,133	905	667	689	1,633	4,665	2,193	954	662	431
Max	1,050	1,530	1,330	1,020	709	1,000	3,680	5,330	3,420	1,450	753	572
Min	503	1,030	1,030	745	649	569	1,040	3,570	1,490	750	586	297
Ac-ft	50,210	77,830	69,680	55,630	37,040	42,390	97,190	286,900	130,500	58,650	40,700	25,620
Cfsm	0.47	0.75	0.65	0.52	0.38	0.40	0.94	2.68	1.26	0.55	0.38	0.25
In.	0.54	0.84	0.75	0.60	0.40	0.46	1.05	3.09	1.41	0.63	0.44	0.28

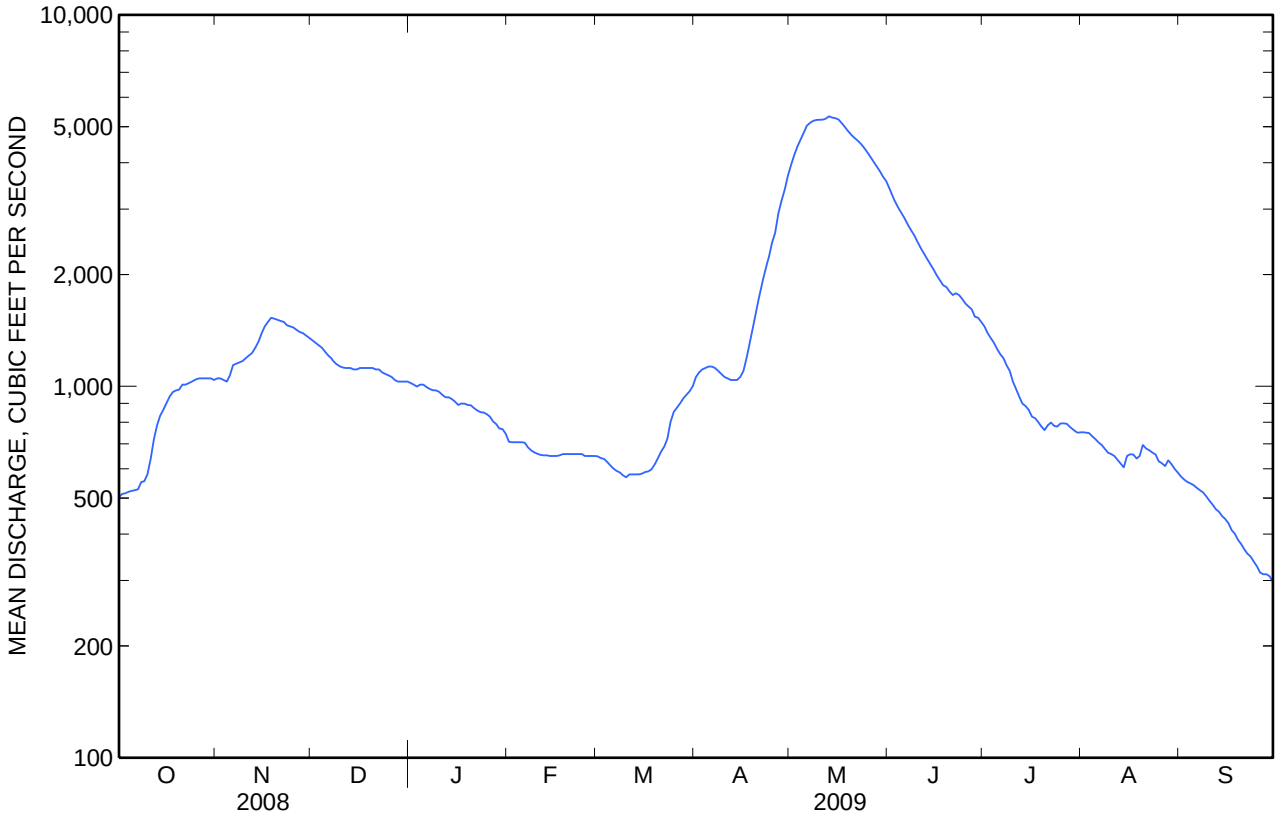
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,074	1,013	879	729	596	568	1,233	3,666	2,799	1,779	1,087	943
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)

05127500 BASSWOOD RIVER NEAR WINTON, MN—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1931 - 2009	
Annual total	626,314		490,209			
Annual mean	1,711		1,343		1,375	
Highest annual mean					2,643	1950
Lowest annual mean					557	1958
Highest daily mean	7,330	May 14	5,330	May 13	15,200	May 24, 1950
Lowest daily mean	390	Sep 10	297	Sep 30	58	Nov 3, 1976
Annual seven-day minimum	404	Sep 5	315	Sep 24	58	Nov 7, 1976
Maximum peak flow			5,370	May 13	15,600	May 24, 1950
Maximum peak stage			6.08	May 13	[a]9.94	May 24, 1950
Instantaneous low flow			[b]291	Sep 30	55	Nov 18, 1976
Annual runoff (ac-ft)	1,242,000		972,300		996,000	
Annual runoff (cfsm)	0.983		0.772		0.790	
Annual runoff (inches)	13.39		10.48		10.74	
10 percent exceeds	4,890		3,140		3,200	
50 percent exceeds	1,030		980		860	
90 percent exceeds	458		554		365	

[a] Present datum.

[b] Falling stage.