Water-Data Report 2008

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY

St. Lawrence Basin
St. Regis Subbasin

LOCATION.--Lat 44°51′49″, long 74°46′45″ referenced to North American Datum of 1927, St. Lawrence County, NY, Hydrologic Unit 04150306, on left bank 600 ft upstream from abandoned highway bridge at Brasher Center, and 6.5 mi downstream from West Branch.

DRAINAGE AREA.--612 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1910 to October 1917, November 1917 to December 1918 (monthly discharges only, published in WSP 1307), January 1919 to September 1996, October 1996 to September 1997 (annual maximum only), October 1997 to current year.

REVISED RECORDS.--WSP 1387: 1910-16, 1917(M). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.23 ft above NGVD of 1929. Prior to June 24, 1916, nonrecording gage at site 600 ft downstream at different datum. June 24, 1916 to Nov. 10, 1917, and Jan. 1, 1919 to Aug. 13, 1920, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation caused by powerplant operations upstream from station. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s, Apr. 6, 1937, gage height, 12.82 ft; maximum gage height, about 15.3 ft, Apr. 6, 1937 (ice jam); minimum discharge observed, about 34 ft^3/s, Aug. 8, 1917, gage height, 5.25 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 10	unknown	7,340	a9.87
Apr 13	0130	*8,570	*10.33

a From crest-stage gage.

Minimum discharge, 190 ft^3/s, Oct. 6, gage height, 5.83 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	602	1,150	1,360	e958	e1,190	e573	e1,330	2,070	2,040	994	678	349
2	489	1,000	e1,120	e919	e1,320	e667	e1,720	1,840	1,860	752	700	346
3	431	868	e1,010	e904	e1,400	e787	e2,010	1,710	1,570	639	771	291
4	373	729	e932	e912	e1,520	e875	e2,280	1,570	1,500	685	805	267
5	331	669	e893	e934	e1,620	e984	e2,660	1,460	1,350	676	738	281
6	265	673	e834	e1,070	e1,640	e1,030	e3,480	1,290	1,720	610	674	274
7	355	776	e792	e1,410	e1,630	e1,060	4,320	1,220	1,970	482	801	393
8	374	776	e772	e2,250	e1,580	e1,080	5,120	1,240	1,840	407	876	299
9	542	703	e727	e4,480	e1,480	e1,120	5,670	1,320	1,530	511	901	503
10	499	630	e650	e5,100	e1,310	e1,140	6,680	1,230	1,530	525	845	672
11	529	568	e612	4,480	e1,170	e1,120	6,560	1,110	1,790	457	760	653
12	622	526	e572	4,290	e1,040	e1,060	7,540	926	1,280	424	734	550
13	741	527	e562	3,350	e884	e968	8,110	862	1,020	428	703	495
14	729	575	e545	2,780	e771	e902	6,100	800	885	946	679	585
15	663	670	e523	2,390	e706	e847	4,600	760	720	1,190	661	751
16	590	1,140	e505	e2,030	e706	e828	3,980	749	719	978	632	858
17	525	1,320	e483	1,670	e836	e796	3,700	726	590	738	575	788
18	453	1,150	e471	e1,480	e1,070	e815	4,060	700	588	589	592	649
19	461	918	e455	e1,290	e1,280	e961	4,220	768	652	735	1,470	548
20	1,270	829	e442	e1,110	e1,440	e1,140	4,370	1,090	715	1,070	1,730	471
21	1,440	1,000	e444	e999	e1,400	e1,220	4,170	1,110	696	2,320	1,360	426
22	1,250	2,160	e494	e929	e1,340	e1,230	3,720	985	625	2,520	1,080	364
23	1,160	2,900	e987	e872	e1,200	e1,170	3,460	915	601	2,030	844	379
24	1,600	2,310	e1,310	e835	e1,070	e1,100	2,970	926	636	1,710	692	313
25	1,660	1,930	e1,570	e835	e944	e1,040	2,670	891	602	1,490	635	332
26	1,410	1,840	e1,470	e823	e850	e960	2,410	796	578	1,380	523	340
27	1,430	2,050	e1,390	e855	e753	e910	2,030	735	605	1,480	538	327
28	1,900	2,180	e1,250	e905	e677	e839	2,150	697	575	1,300	454	442
29	1,890	2,000	e1,110	e966	e644	e821	2,330	653	772	1,010	385	488
30	1,550	1,800	e1,040	e1,040	---	e862	2,280	610	1,040	851	382	493
31	1,310	---	e973	e1,110	---	e956	---	1,080	---	743	369	---
Total	27,444	36,367	26,298	53,976	33,471	29,861	116,700	32,839	32,599	30,670	23,587	13,927
Mean	885	1,212	848	1,741	1,154	963	3,890	1,059	1,087	989	761	464
Max	1,900	2,900	1,570	5,100	1,640	1,230	8,110	2,070	2,040	2,520	1,730	858
Min	265	526	442	823	644	573	1,330	610	575	407	369	267
Cfsm	1.45	1.98	1.39	2.85	1.89	1.57	6.36	1.73	1.78	1.62	1.24	0.76
In.	1.67	2.21	1.60	3.28	2.03	1.82	7.09	2.00	1.98	1.86	1.43	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	790	1,024	991	917	777	1,500	2,809	1,533	851	559	483	540
Max	2,455	2,467	2,674	2,678	2,268	3,434	5,576	4,512	2,848	1,486	1,564	1,541
(WY)	(2006)	(1928)	(1984)	(1913)	(1981)	(1913)	(1993)	(1971)	(1947)	(1998)	(1986)	(1981)
Min	296	374	367	273	304	337	996	495	247	225	129	155
(WY)	(1965)	(1931)	(1961)	(1931)	(1931)	(1941)	(1995)	(1941)	(1941)	(1941)	(1934)	(1934)

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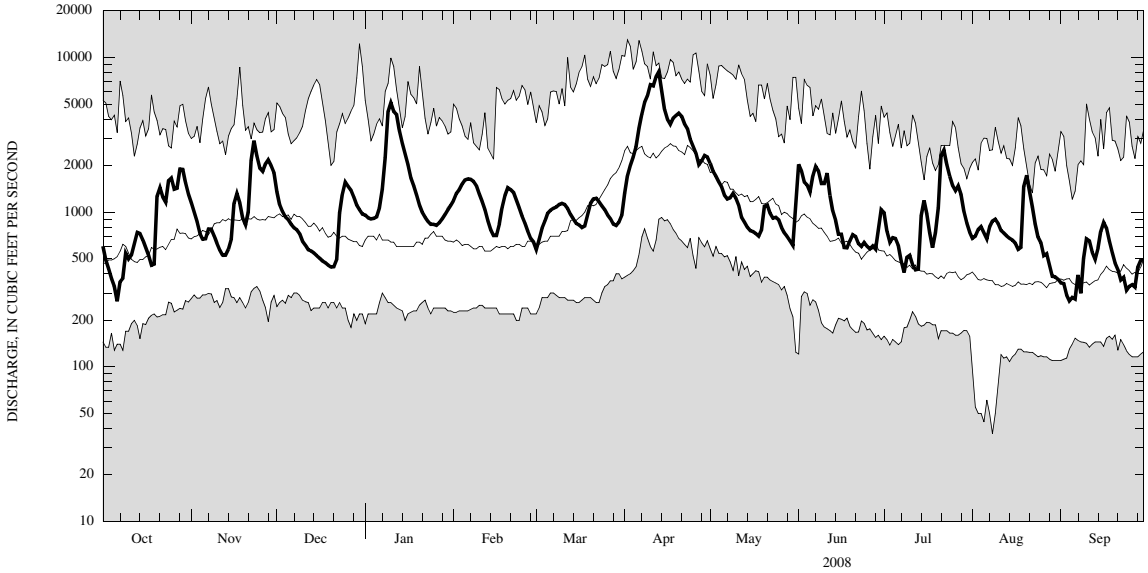
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1910 - 2008	
Annual total	376,330		457,739			
Annual mean	1,031		1,251		1,064	
Highest annual mean					1,884	1947
Lowest annual mean					581	1941
Highest daily mean	4,530	Mar 28	8,110	Apr 13	13,000	Apr 2, 1916
Lowest daily mean	152	Sep 9	265	Oct 6	37	Aug 8, 1917
Annual seven-day minimum	161	Sep 4	307	Sep 2	49	Aug 3, 1917
Annual runoff (cfsm)	1.68		2.04		1.74	
Annual runoff (inches)	22.87		27.82		23.62	
10 percent exceeds	2,360		2,260		2,260	
50 percent exceeds	706		911		700	
90 percent exceeds	232		471		292	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.