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)
Dec 2	1030	*5,090	8.95
Mar 15	2045	ice jam	*9.11

Minimum discharge, 148 ft^3/s, Sept. 8, 9, gage height, 5.75 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,430	2,140	1,980	1,360	e731	e493	2,320	2,150	656	266	464	190
2	1,100	1,900	4,840	1,940	e681	e546	2,110	1,940	621	277	389	188
3	962	1,580	3,550	1,790	e668	e583	2,100	1,710	794	274	340	182
4	800	1,550	2,710	1,570	e610	e583	2,550	1,520	1,050	251	308	168
5	1,020	1,300	2,020	1,530	e569	e551	3,400	1,350	1,010	287	262	161
6	1,130	1,100	1,610	2,310	e549	e572	3,080	1,200	996	322	248	163
7	943	1,070	e1,390	3,500	e523	e525	2,580	1,080	885	334	263	158
8	800	1,020	e1,230	3,460	e505	e515	2,210	956	775	657	265	154
9	667	1,020	e1,170	3,600	e509	e515	1,990	911	1,060	1,120	270	152
10	573	987	e1,130	2,990	e516	e540	1,750	919	976	1,180	294	168
11	495	983	e1,120	2,120	e516	e578	1,560	945	759	1,160	247	210
12	522	1,620	1,130	1,870	e514	e702	1,600	907	606	1,380	246	299
13	473	2,150	1,130	e1,700	e488	e979	2,110	866	519	1,240	236	272
14	515	2,010	1,230	e1,650	e481	e1,670	2,580	783	430	1,090	221	322
15	513	1,980	1,320	e1,560	e478	e2,290	2,380	721	410	882	214	274
16	488	1,880	1,400	e1,490	e473	e2,580	2,840	1,520	395	745	203	266
17	481	2,320	1,350	e1,230	e450	e2,520	3,330	2,970	349	629	196	292
18	678	2,390	1,260	e1,090	e453	e2,200	3,130	2,650	416	532	196	283
19	1,030	2,120	1,150	e970	e428	e1,960	3,110	2,170	284	513	190	304
20	1,340	1,890	1,050	e916	e421	e1,680	3,260	1,720	333	744	190	197
21	2,130	1,610	953	e743	e424	e1,420	3,220	1,520	406	1,240	190	183
22	2,080	1,490	872	e731	e424	e1,680	3,260	1,300	469	1,180	190	195
23	2,290	1,290	1,140	e706	e424	e1,990	3,020	1,070	469	1,080	196	189
24	2,500	1,090	1,400	e706	e414	e2,340	3,050	993	447	870	206	184
25	2,510	1,020	1,460	e676	e421	e2,590	2,830	874	412	740	201	173
26	2,660	952	1,660	e667	e421	2,880	2,630	758	373	592	213	181
27	2,280	904	1,940	e701	e431	4,080	2,560	693	317	500	226	239
28	2,280	933	1,670	e742	e453	4,530	2,500	743	311	544	218	400
29	2,740	917	1,490	e763	---	3,940	2,390	895	311	542	198	671
30	2,820	900	1,390	e754	---	3,230	2,340	861	276	668	189	683
31	2,410	---	1,380	e746	---	2,690	---	747	---	566	191	---
Total	42,660	44,116	49,125	46,581	13,975	53,952	77,790	39,442	17,115	22,405	7,460	7,501
Mean	1,376	1,471	1,585	1,503	499	1,740	2,593	1,272	570	723	241	250
Max	2,820	2,390	4,840	3,600	731	4,530	3,400	2,970	1,060	1,380	464	683
Min	473	900	872	667	414	493	1,560	693	276	251	189	152
Cfsm	2.25	2.40	2.59	2.46	0.82	2.84	4.24	2.08	0.93	1.18	0.39	0.41
In.	2.59	2.68	2.99	2.83	0.85	3.28	4.73	2.40	1.04	1.36	0.45	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	789	1,022	992	909	773	1,506	2,798	1,538	849	554	480	541
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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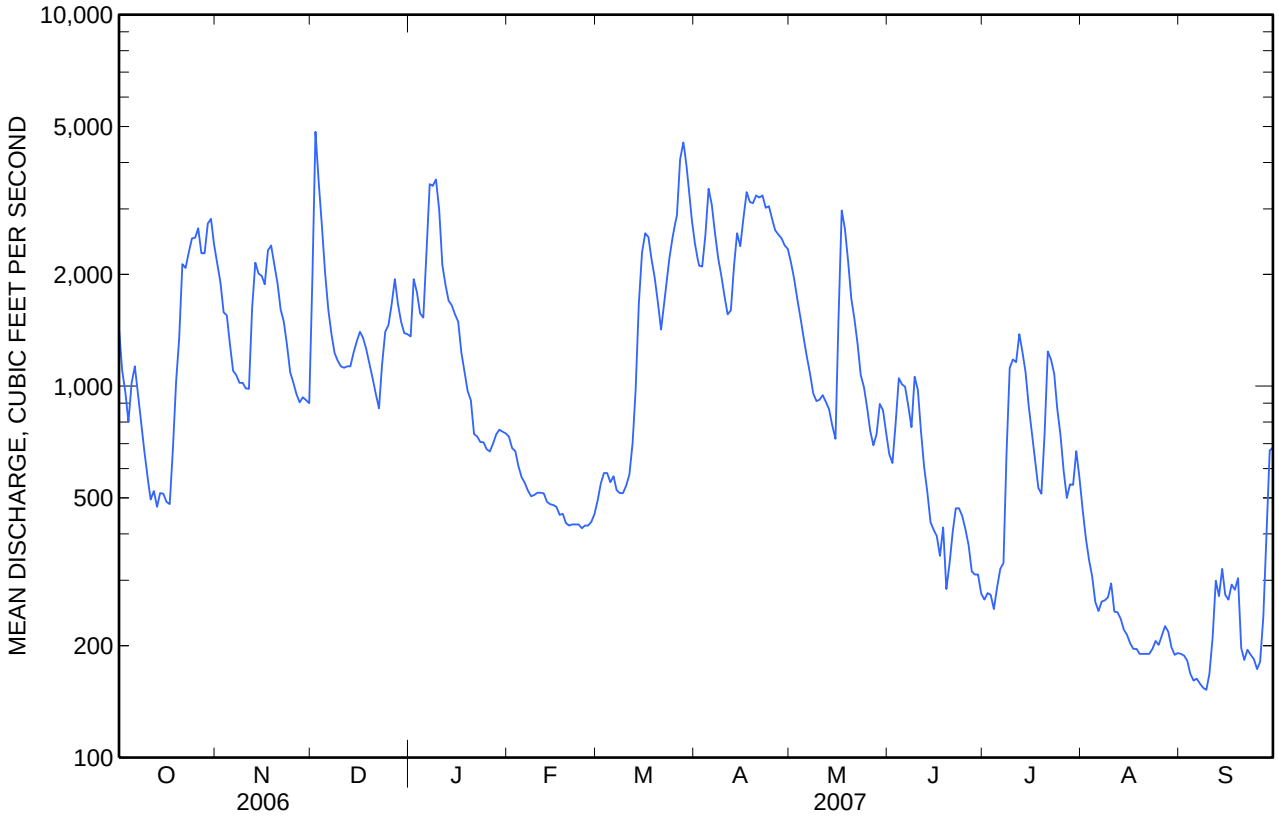
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1910 - 2007	
Annual total	456,015		422,122			
Annual mean	1,249		1,156		1,062	
Highest annual mean					1,884	1947
Lowest annual mean					581	1941
Highest daily mean	4,840	Dec 2	4,840	Dec 2	13,000	Apr 2, 1916
Lowest daily mean	254	Aug 16	152	Sep 9	37	Aug 8, 1917
Annual seven-day minimum	280	Sep 7	161	Sep 4	49	Aug 3, 1917
Annual runoff (cfsm)	2.04		1.89		1.74	
Annual runoff (inches)	27.72		25.66		23.58	
10 percent exceeds	2,350		2,550		2,260	
50 percent exceeds	1,100		900		700	
90 percent exceeds	377		232		291