04269000 ST. REGIS RIVER AT BRASHER CENTER, NY

St. Lawrence Basin
St. Regis Subbasin

LOCATION.--Lat 44°51′49″, long 74°46′44″ referenced to North American Datum of 1983, 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 (estimated monthly discharges only, published in WSP 1307), January 1919 to September 1996, annual maximum only--1997, 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)
Jun 12	1345	*7,780	*10.04
No other peak greater than base discharge			

Minimum discharge, 294 ft^3/s, Sept. 2, gage height, 5.99 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04269000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04269000.2013.pdf

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	620	879	466	e625	e1,180	e335	1,470	1,040	1,620	1,830	681	381
2	1,040	809	533	e587	e1,390	e332	1,670	1,030	2,080	1,640	753	376
3	1,020	962	846	e523	e1,080	e328	1,440	950	2,230	1,500	899	563
4	814	1,060	1,140	e502	e876	e324	1,200	855	1,720	1,760	911	800
5	677	1,050	1,450	e467	e687	e314	1,040	775	1,330	1,940	853	761
6	776	918	1,620	e443	e604	e304	1,010	712	1,100	1,970	780	612
7	1,210	804	1,440	e412	e452	e304	909	664	1,470	1,830	638	507
8	1,180	646	1,230	e403	e393	e300	1,130	619	1,970	1,700	547	470
9	995	648	1,060	e403	e356	e300	1,910	586	2,090	1,540	547	438
10	788	548	1,050	e412	e340	e300	2,720	629	1,820	1,390	757	513
11	672	557	1,320	e440	e340	e445	2,800	731	3,070	1,640	833	974
12	646	567	1,300	e459	e391	e700	2,890	914	7,190	1,730	761	2,970
13	568	577	1,170	e464	e387	e1,180	4,000	963	5,520	1,610	626	3,180
14	745	636	1,010	e482	e382	e1,800	3,360	842	3,770	1,440	608	2,420
15	1,220	644	920	e621	e376	1,960	2,900	749	2,870	1,220	745	1,770
16	1,260	581	e853	e759	e375	1,660	2,580	675	2,320	1,010	763	1,520
17	1,090	530	e815	e695	e370	1,260	3,200	647	2,380	847	649	1,010
18	902	499	e860	e590	e366	1,100	3,430	569	1,930	778	532	1,070
19	798	476	e934	e489	e367	1,150	3,080	473	1,600	745	458	877
20	1,080	421	e1,020	e431	e365	976	3,110	462	1,300	797	449	758
21	1,380	489	e1,140	e380	e363	924	3,080	558	1,160	1,090	370	667
22	1,340	391	e1,220	e366	e359	910	2,650	960	939	992	398	1,140
23	1,210	522	e1,160	e385	e349	874	2,210	1,740	885	832	429	1,120
24	1,020	386	e1,070	e415	e341	823	1,900	2,270	850	697	587	888
25	861	485	e998	e442	e340	770	1,700	2,810	854	611	476	728
26	750	434	e928	e404	e340	824	1,590	3,470	924	552	442	624
27	675	403	e890	e366	e340	923	1,500	4,260	855	510	538	550
28	627	385	e828	e361	e344	1,050	1,420	3,460	1,190	491	504	503
29	571	406	e754	e348	---	1,140	1,310	2,760	2,610	877	462	461
30	569	421	e723	e465	---	1,160	1,170	2,200	2,220	1,000	408	433
31	698	---	e665	e669	---	1,210	---	1,860	---	814	350	---
Total	27,802	18,134	31,413	14,808	13,853	25,980	64,379	41,233	61,867	37,383	18,754	29,084
Mean	897	604	1,013	478	495	838	2,146	1,330	2,062	1,206	605	969
Max	1,380	1,060	1,620	759	1,390	1,960	4,000	4,260	7,190	1,970	911	3,180
Min	568	385	466	348	340	300	909	462	850	491	350	376
Cfsm	1.47	0.99	1.66	0.78	0.81	1.37	3.51	2.17	3.37	1.97	0.99	1.58
In.	1.69	1.10	1.91	0.90	0.84	1.58	3.91	2.51	3.76	2.27	1.14	1.77

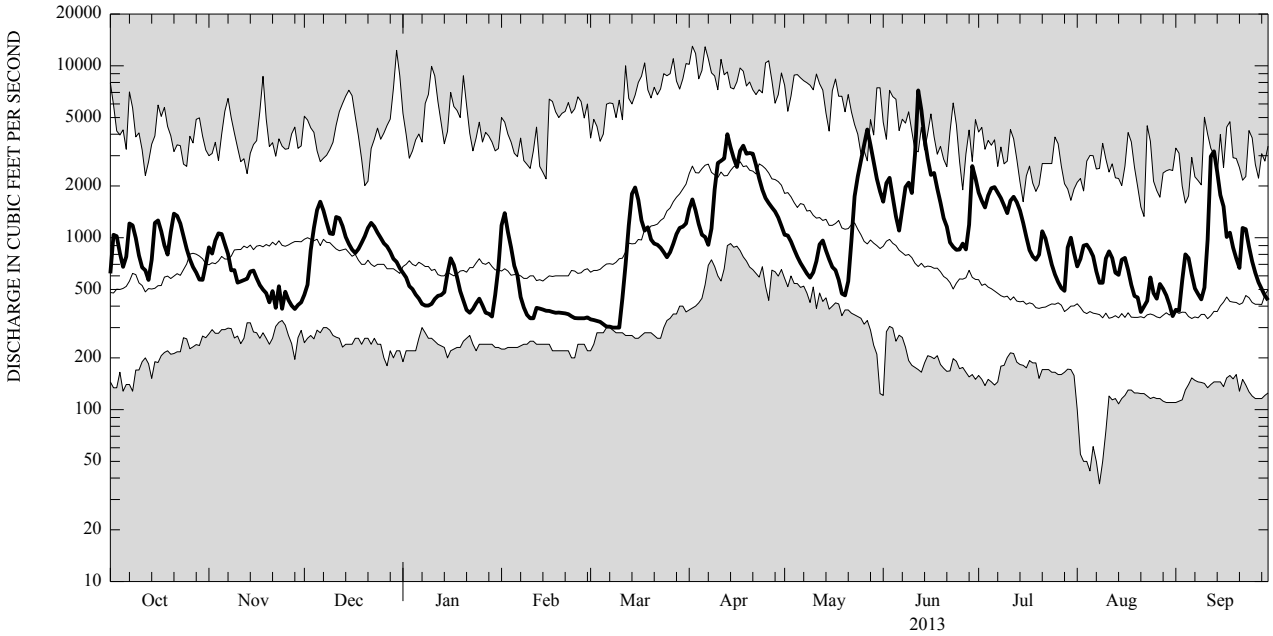
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	819	1,025	995	908	772	1,509	2,781	1,546	863	573	488	549
Max	2,676	2,467	2,674	2,678	2,268	3,434	5,576	4,512	2,848	1,486	1,564	1,541
(WY)	(2011)	(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)

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1910 - 2013	
Annual total	345,226		384,690			
Annual mean	943		1,054		1,069	
Highest annual mean					1,884	1947
Lowest annual mean					581	1941
Highest daily mean	4,100	Mar 17	7,190	Jun 12	13,000	Apr 2, 1916
Lowest daily mean	153	Sep 2	300	Mar 8	37	Aug 8, 1917
Annual seven-day minimum	155	Aug 29	307	Mar 4	49	Aug 3, 1917
Annual runoff (cfsm)	1.54		1.72		1.75	
Annual runoff (inches)	20.98		23.38		23.73	
10 percent exceeds	1,930		2,010		2,260	
50 percent exceeds	762		815		705	
90 percent exceeds	254		382		296	



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.

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: 2011-13 (e).
ORGANIC DATA: 2011-12 (d).
NUTRIENT DATA: 2011-13 (e).
SEDIMENT DATA: 2011-13 (e).

INSTRUMENTATION.--Refrigerated automatic sampler since September 2010 and a continuous monitor with water temperature, specific conductance, pH, dissolved oxygen and turbidity since September 2010, provides 15-minute-interval readings. Continuous monitor removed following 2013 WY.

COOPERATION.--In cooperation with the U.S. Environmental Protection Agency's Great Lakes Restoration Initiative (GLRI).

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; WS, Surface water; <, less than; E, estimated]

Date	Sample start time	Medium code	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Discharge, instantaneous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)
10-20-2012	**0345**	WS	--	--	950	--	--	--	--	--
10-20-2012	**1815**	WS	--	--	1,150	--	--	--	--	--
10-21-2012	**0830**	WS	--	--	1,380	--	--	--	--	--
10-21-2012	**2245**	WS	--	--	1,400	--	--	--	--	--
10-22-2012	**1800**	WS	--	--	1,800	--	--	--	--	--
10-23-2012	**1100**	WS	--	--	1,250	11.5	102	7.1	72	10.1
10-23-2012	**1101**	WS	--	--	1,250	--	--	--	--	--
11-20-2012	**1130**	WS	760	4.5	408	14.1	101	7.5	91	1.6
11-20-2012	**1131**	WS	--	--	408	--	--	--	--	--
12-18-2012	**1215**	WS	727	1.0	E 860	14.7	101	--	94	.2
12-18-2012	**1216**	WS	--	--	E 860	--	--	--	--	--
01-23-2013	**1145**	WS	744	-25.0	E 385	14.5	101	7.4	117	.0
02-20-2013	**1030**	WS	--	-4.5	E 365	13.9	95	7.5	122	.0
03-18-2013	**1100**	WS	--	-2.2	1,050	14.2	97	7.5	111	.0
04-16-2013	**0915**	WS	775	15.0	2,580	12.6	100	7.0	55	6.3
04-16-2013	**0916**	WS	--	--	2,580	--	--	--	--	--
04-16-2013	**1800**	WS	--	--	2,560	--	--	--	--	--
04-17-2013	**0700**	WS	--	--	2,960	--	--	--	--	--
04-17-2013	**1330**	WS	--	--	3,240	--	--	--	--	--
04-17-2013	**2000**	WS	--	--	3,580	--	--	--	--	--
04-18-2013	**0230**	WS	--	--	3,560	--	--	--	--	--
05-21-2013	**0940**	WS	755	18.0	503	9.2	96	7.5	89	16.6
05-21-2013	**0941**	WS	--	--	503	--	--	--	--	--
05-23-2013	**2030**	WS	--	--	2,000	--	--	--	--	--
05-24-2013	**1515**	WS	--	--	2,350	--	--	--	--	--
05-25-2013	**2215**	WS	--	--	2,890	--	--	--	--	--
05-26-2013	**1355**	WS	760	17.1	3,600	11.3	103	7.3	61	11.4
05-26-2013	**1356**	WS	--	--	3,600	--	--	--	--	--
05-27-2013	**1745**	WS	--	--	4,360	--	--	--	--	--
05-28-2013	**1700**	WS	--	--	3,090	--	--	--	--	--
05-29-2013	**1715**	WS	--	--	2,650	--	--	--	--	--
06-12-2013	**1330**	WS	--	--	7,760	--	--	--	--	--
06-12-2013	**1430**	WS	--	--	7,760	--	--	--	--	--
06-13-2013	**1400**	WS	750	22.0	5,300	9.8	102	7.0	50	16.7
06-13-2013	**1401**	WS	--	--	5,300	--	--	--	--	--
06-18-2013	**0900**	WS	755	20.0	2,020	9.8	100	7.2	66	16.3
06-18-2013	**0901**	WS	--	--	2,020	--	--	--	--	--
07-09-2013	**0800**	WS	755	24.0	1,570	8.5	100	7.2	63	23.3
08-20-2013	**0800**	WS	760	23.5	473	8.8	101	7.5	76	22.2

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 2 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; WS, Surface water; <, less than; E, estimated]

Date	Sample start time	Sampling method (82398)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)
10-20-2012	0345	Point sample	--	--	5.33	--	--	< .010	0.077	0.004
10-20-2012	1815	Point sample	--	--	6.82	--	--	< .010	.094	.002
10-21-2012	0830	Point sample	--	--	6.43	--	--	< .010	.076	.001
10-21-2012	2245	Point sample	--	--	5.54	--	--	< .010	.070	.002
10-22-2012	1800	Point sample	--	--	4.80	--	--	< .010	.076	.001
10-23-2012	1100	EWI	--	--	4.48	--	--	< .010	.074	< .001
10-23-2012	1101	Point sample	--	--	4.57	--	--	< .010	.065	.001
11-20-2012	1130	EWI	--	--	5.85	--	--	< .010	.151	< .001
11-20-2012	1131	Point sample	--	--	5.80	--	--	< .010	.152	< .001
12-18-2012	1215	EWI	--	--	5.55	--	--	< .010	.179	< .001
12-18-2012	1216	Point sample	--	--	5.74	--	--	.011	.183	< .001
01-23-2013	1145	Point sample	--	--	6.31	--	--	.011	.305	.001
02-20-2013	1030	Point sample	--	--	6.15	--	--	.031	.306	.002
03-18-2013	1100	Point sample	--	--	5.61	--	--	.035	.274	.001
04-16-2013	0915	EWI	4.61	1.51	3.45	E .04	3.57	< .010	.143	< .001
04-16-2013	0916	Point sample	--	--	3.50	--	--	< .010	.144	< .001
04-16-2013	1800	Point sample	--	--	3.45	--	--	.011	.154	< .001
04-17-2013	0700	Point sample	--	--	3.94	--	--	< .010	.162	< .001
04-17-2013	1330	Point sample	--	--	3.86	--	--	< .010	.145	< .001
04-17-2013	2000	Point sample	--	--	3.56	--	--	< .010	.167	< .001
04-18-2013	0230	Point sample	--	--	3.37	--	--	< .010	.125	< .001
05-21-2013	0940	EWI	--	--	5.50	--	--	.014	.159	.002
05-21-2013	0941	Point sample	--	--	5.58	--	--	.016	.138	.002
05-23-2013	2030	Point sample	--	--	5.85	--	--	.018	.090	.002
05-24-2013	1515	Point sample	--	--	5.54	--	--	.015	.082	.001
05-25-2013	2215	Point sample	--	--	4.27	--	--	< .010	.063	< .001
05-26-2013	1355	EWI	5.90	1.90	4.16	.06	2.83	< .010	.058	< .001
05-26-2013	1356	Point sample	--	--	4.17	--	--	< .010	.060	< .001
05-27-2013	1745	Point sample	--	--	2.92	--	--	< .010	.066	.001
05-28-2013	1700	Point sample	--	--	2.60	--	--	< .010	.054	.001
05-29-2013	1715	Point sample	--	--	2.75	--	--	< .010	.054	.001
06-12-2013	1330	Point sample	--	--	4.03	--	--	< .010	.130	< .001
06-12-2013	1430	Point sample	--	--	3.89	--	--	< .010	.120	< .001
06-13-2013	1400	EWI	5.33	1.68	2.55	.05	2.02	< .010	.074	< .001
06-13-2013	1401	Point sample	--	--	2.56	--	--	.011	.185	< .001
06-18-2013	0900	EWI	--	--	4.25	--	--	.012	.097	.001
06-18-2013	0901	Point sample	--	--	4.35	--	--	.013	.095	.001
07-09-2013	0800	Point sample	--	--	3.62	--	--	.015	.081	.001
08-20-2013	0800	Point sample	--	--	4.78	--	--	< .010	.070	< .001

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 3 of 3
[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; WS, Surface water; <, less than; E, estimated]

Date	Sample start time	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Suspended sediment concentration, mg/L (80154)
10-20-2012	0345	< .004	0.016	0.41	4
10-20-2012	1815	< .004	.015	.42	3
10-21-2012	0830	< .004	.017	.41	4
10-21-2012	2245	< .004	.017	.40	5
10-22-2012	1800	< .004	.015	.39	4
10-23-2012	1100	< .004	.015	.45	3
10-23-2012	1101	< .004	.015	.43	2
11-20-2012	1130	< .004	.009	.34	< .5
11-20-2012	1131	< .004	.009	.33	1
12-18-2012	1215	.004	.014	.45	2
12-18-2012	1216	.005	.019	.48	6
01-23-2013	1145	< .004	.010	.55	2
02-20-2013	1030	< .004	.010	.51	65
03-18-2013	1100	< .004	.015	.54	42
04-16-2013	0915	< .004	.013	.41	2
04-16-2013	0916	< .004	.018	.47	9
04-16-2013	1800	< .004	.013	.40	7
04-17-2013	0700	< .004	.013	.39	6
04-17-2013	1330	< .004	.014	.39	5
04-17-2013	2000	< .004	.019	.37	8
04-18-2013	0230	< .004	.017	.39	9
05-21-2013	0940	< .004	.013	.39	2
05-21-2013	0941	< .004	.015	.42	5
05-23-2013	2030	< .004	.027	.44	11
05-24-2013	1515	< .004	.028	.58	11
05-25-2013	2215	< .004	.029	.62	12
05-26-2013	1355	< .004	.029	.63	12
05-26-2013	1356	< .004	.027	.61	9
05-27-2013	1745	< .004	.028	.56	12
05-28-2013	1700	< .004	.021	.52	6
05-29-2013	1715	< .004	.018	.46	5
06-12-2013	1330	< .004	.061	.80	43
06-12-2013	1430	< .004	.063	.90	51
06-13-2013	1400	< .004	.030	.60	14
06-13-2013	1401	< .004	.031	.59	17
06-18-2013	0900	< .004	.018	.50	4
06-18-2013	0901	< .004	.020	.48	6
07-09-2013	0800	< .004	.027	.76	6
08-20-2013	0800	< .004	.013	.42	2