Water-Data Report 2013

04273500 SARANAC RIVER AT PLATTSBURGH, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 44°40′54″, long 73°28′16″ referenced to North American Datum of 1983, Clinton County, NY, Hydrologic Unit 02010006, on right bank at Plattsburgh, 600 ft downstream from dam, 3.0 mi upstream from mouth, and 5.5 mi downstream from Mead Brook.

DRAINAGE AREA.--608 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1903 to September 1930, October 1943 to current year. Prior to October 1943, published as "near Plattsburgh".

REVISED RECORDS.--WSP 345: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8. WSP 1437: 1908 (minimum daily only).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 155.74 ft above NGVD of 1929. Prior to Nov. 12, 1919, nonrecording gage, and Nov. 12, 1919 to Sept. 30, 1930, water-stage recorder, at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation caused by power and industrial operations. Slight regulation by storage in Upper and Lower Saranac Lakes. During the year, the city of Plattsburgh diverted an average of 3.36 ft^3/s from Saranac River and Mead and West Brooks, tributaries upstream from station, for municipal supply. About 1 ft^3/s diverted from Great Chazy River basin into Saranac River for water supply of State Institutions at Dannemora. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft^3/s, Nov. 9, 1996, gage height, 12.11 ft; minimum instantaneous discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,430 ft^3/s, June 12, gage height, 9.88 ft; minimum discharge, 120 ft^3/s, Oct. 10, gage height, 2.30 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 04273500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04273500.2013.pdf

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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	414	943	434	1,070	1,560	653	1,100	1,260	1,680	2,580	643	499
2	438	1,020	528	e739	1,340	626	930	774	1,750	2,750	694	547
3	454	1,070	741	e701	e1,290	619	1,140	716	1,790	3,170	673	584
4	523	1,040	1,000	e658	e1,180	581	1,070	689	1,620	3,640	655	655
5	793	927	938	e633	e1,090	575	900	688	1,510	3,590	641	873
6	843	679	986	597	e990	567	855	734	1,400	3,030	563	824
7	1,200	473	973	e584	877	585	857	767	1,910	2,670	655	678
8	1,020	424	785	e559	949	534	1,170	810	2,570	2,710	612	627
9	871	430	879	e543	e1,060	546	1,550	905	2,190	2,360	643	617
10	769	475	827	e539	e1,050	565	2,050	859	1,850	2,130	692	584
11	722	603	1,020	e539	e942	610	2,050	915	3,510	2,280	614	853
12	724	797	933	e584	860	946	1,790	934	7,640	2,110	569	1,510
13	725	771	999	e625	813	1,470	1,710	867	4,600	1,700	609	1,280
14	819	674	1,010	e790	779	1,540	1,750	768	3,400	1,530	646	841
15	894	651	819	e1,160	764	1,300	1,770	734	2,860	1,430	629	772
16	866	610	556	e1,050	747	953	1,850	724	2,490	1,340	552	709
17	757	550	652	e809	e760	992	2,440	684	2,500	1,260	583	660
18	680	599	936	555	e789	775	2,400	632	2,240	1,070	593	637
19	924	508	864	e673	e760	836	2,340	552	2,000	1,000	522	612
20	1,650	344	736	722	655	822	2,690	581	1,820	877	503	588
21	1,560	367	922	e679	682	790	2,370	633	1,670	899	453	572
22	1,460	441	1,480	e625	685	743	2,080	1,250	1,450	888	470	588
23	1,320	510	1,090	e581	628	649	1,870	2,070	1,430	1,210	568	532
24	1,170	544	837	e555	632	638	1,680	2,300	1,430	1,300	521	501
25	963	584	847	e530	650	659	1,800	3,380	1,620	1,050	532	398
26	788	558	803	e492	638	691	1,660	5,440	2,870	898	537	398
27	799	476	637	e466	640	697	1,620	4,300	2,100	828	593	394
28	1,030	405	781	e462	612	720	1,480	2,900	3,150	748	534	394
29	1,050	460	780	e466	---	741	1,350	2,620	3,870	715	474	388
30	999	420	711	815	---	802	1,290	2,520	3,690	650	457	391
31	974	---	817	1,240	---	876	---	2,090	---	630	403	---
Total	28,199	18,353	26,321	21,041	24,422	24,101	49,612	45,096	74,610	53,043	17,833	19,506
Mean	910	612	849	679	872	777	1,654	1,455	2,487	1,711	575	650
Max	1,650	1,070	1,480	1,240	1,560	1,540	2,690	5,440	7,640	3,640	694	1,510
Min	414	344	434	462	612	534	855	552	1,400	630	403	388

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	665	770	769	733	672	1,112	2,025	1,396	849	598	489	502
Max	2,162	1,971	2,071	2,176	1,372	2,487	3,779	3,687	2,757	1,820	1,045	1,220
(WY)	(1978)	(1997)	(1984)	(1998)	(1981)	(1921)	(2011)	(1971)	(1947)	(1947)	(1986)	(1905)
Min	250	239	309	302	304	434	698	518	313	190	266	204
(WY)	(1965)	(1923)	(1909)	(1923)	(1961)	(1967)	(1957)	(1903)	(1999)	(1979)	(1911)	(1968)

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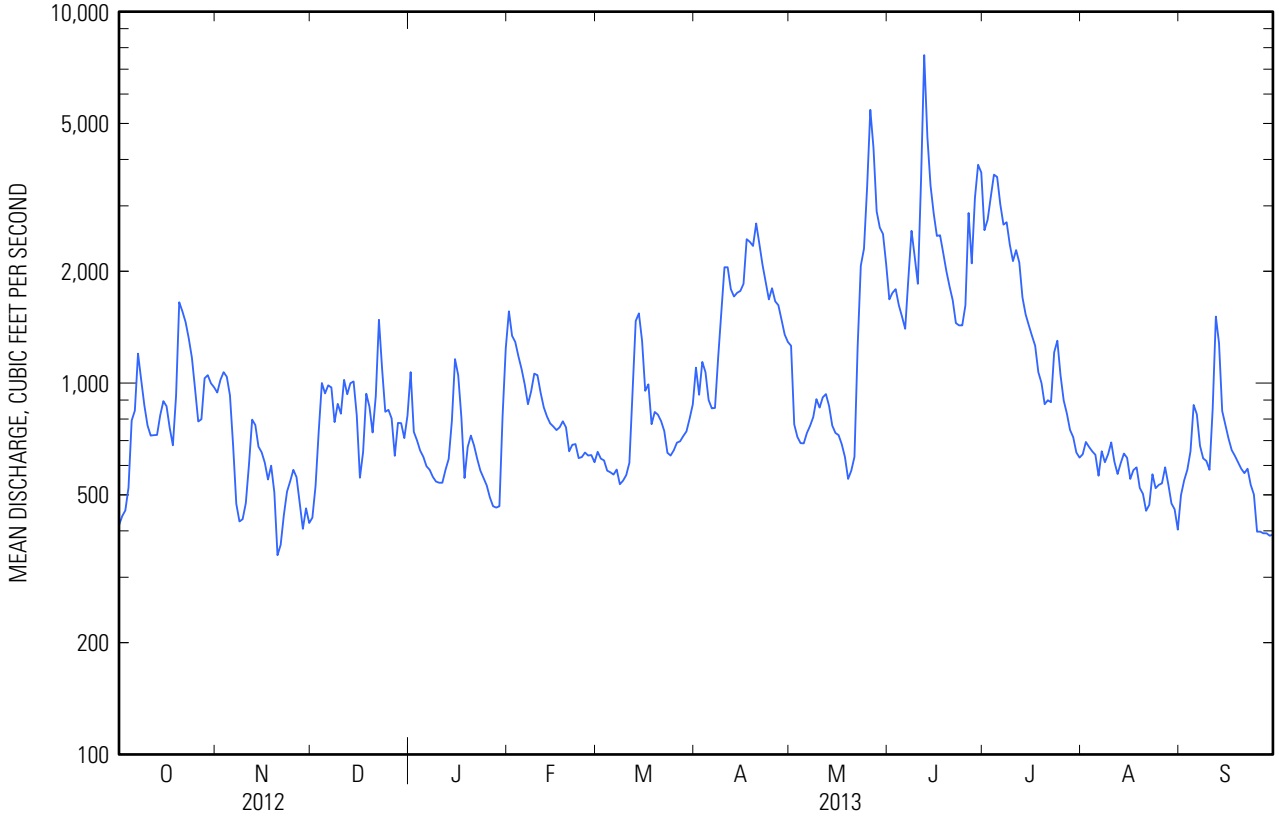
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1903 - 2013	
Annual total	304,862		402,137			
Annual mean	833		1,102		883	
Highest annual mean					1,528	2011
Lowest annual mean					460	1965
Highest daily mean	3,080	Mar 19	7,640	Jun 12	10,200	Nov 9, 1996
Lowest daily mean	260	Aug 25	344	Nov 20	3.6	Jun 26, 1979
Annual seven-day minimum	275	Aug 28	409	Sep 24	38	Jun 21, 1979
10 percent exceeds	1,520		2,150		1,690	
50 percent exceeds	720		799		660	
90 percent exceeds	317		522		334