Water-Data Report 2012

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. Published as "near Plattsburgh," 1903-30.

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 3.46 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 discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,300 ft^3/s, Mar. 16, gage height, 6.25 ft, outside gage height was 6.54 ft, from crest-stage gage; minimum discharge, 99 ft^3/s, Sept. 13, gage height, 2.20 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 04273500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/04273500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,330	934	1,300	1,000	1,020	640	1,270	1,420	693	388	391	276
2	1,470	922	1,160	1,100	e1,070	663	1,240	1,490	743	365	397	272
3	1,480	921	1,080	1,110	e1,050	706	1,040	1,490	746	308	542	271
4	1,240	831	947	650	e1,020	745	1,010	1,680	1,010	388	305	297
5	1,120	890	896	867	e950	657	1,010	1,850	836	488	302	1,220
6	884	820	1,110	894	760	637	998	1,730	601	363	319	1,450
7	764	826	1,460	e850	e790	726	963	1,670	453	345	275	1,230
8	716	821	1,360	768	e820	936	897	1,700	467	317	292	911
9	703	810	1,230	677	e830	1,730	901	2,030	701	297	331	799
10	662	981	1,070	807	e810	1,740	1,270	1,870	700	301	392	355
11	701	1,060	783	e760	e760	1,480	1,500	1,750	725	292	454	348
12	934	750	801	717	715	1,520	1,450	1,650	795	316	385	354
13	991	880	858	e720	670	1,830	1,340	1,530	951	301	353	293
14	1,020	632	879	e700	682	2,330	1,230	1,440	768	280	337	318
15	1,520	640	952	e700	e670	2,090	1,170	1,400	524	317	359	284
16	1,410	626	1,250	e690	650	2,600	1,120	1,410	481	340	312	322
17	1,600	646	1,420	e670	678	2,980	992	1,370	470	360	303	315
18	1,590	639	1,110	e660	659	2,860	864	1,270	484	540	317	345
19	1,510	666	1,090	e640	667	3,080	822	1,120	502	614	300	431
20	1,390	644	1,010	e600	608	2,940	856	916	510	563	307	339
21	1,540	723	1,030	e600	599	2,600	885	867	453	534	300	355
22	1,500	637	1,020	e630	625	2,380	1,110	706	421	406	290	387
23	1,380	755	1,030	e650	e660	2,190	1,620	1,360	365	294	284	397
24	1,300	770	1,080	e690	e680	2,000	2,140	1,150	368	444	288	383
25	1,350	880	847	e720	e700	1,850	1,880	937	413	339	260	427
26	1,290	1,050	981	749	e690	1,750	1,760	751	538	352	276	420
27	1,230	1,090	1,020	855	e680	1,640	1,750	708	570	325	301	426
28	1,080	1,090	1,020	1,080	627	1,520	1,660	719	663	308	283	410
29	1,000	1,330	805	e1,220	668	1,500	1,520	793	603	322	278	425
30	974	1,340	829	e1,120	---	1,410	1,410	939	414	315	274	444
31	943	---	843	e1,050	---	1,320	---	803	---	320	269	---
Total	36,622	25,604	32,271	24,944	21,808	53,050	37,678	40,519	17,968	11,442	10,076	14,504
Mean	1,181	853	1,041	805	752	1,711	1,256	1,307	599	369	325	483
Max	1,600	1,340	1,460	1,220	1,070	3,080	2,140	2,030	1,010	614	542	1,450
Min	662	626	783	600	599	637	822	706	365	280	260	271

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	663	772	768	734	670	1,116	2,029	1,396	832	587	488	501
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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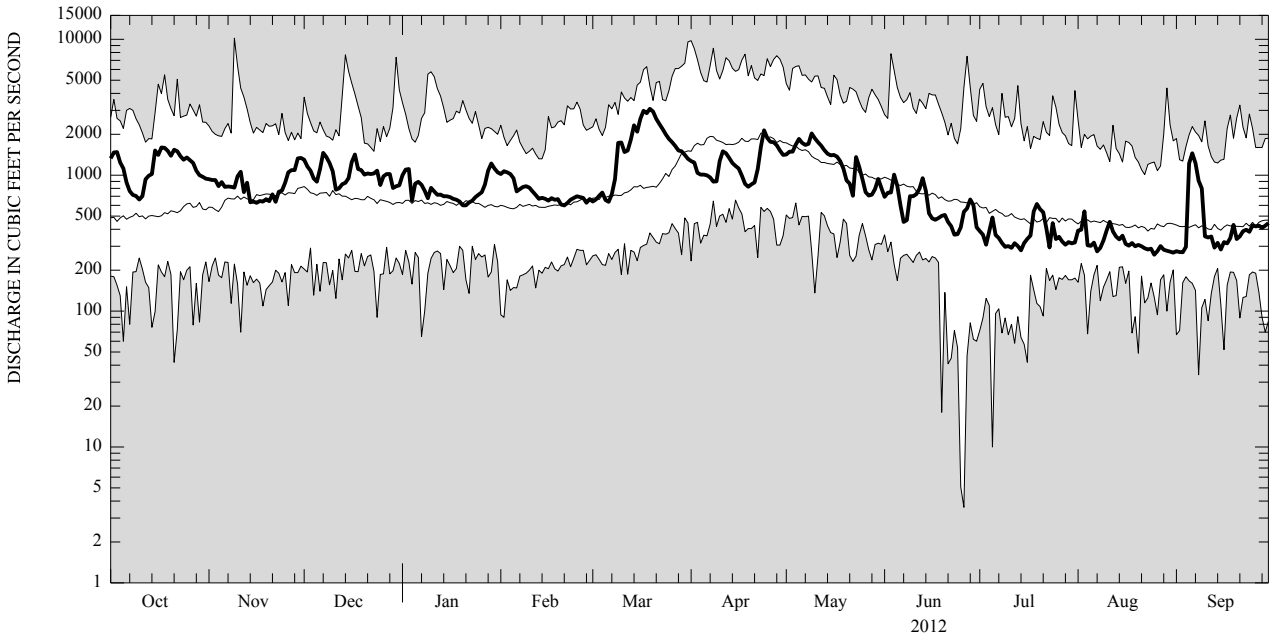
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1903 - 2012	
Annual total	525,510		326,486			
Annual mean	1,440		892		880	
Highest annual mean					1,528	2011
Lowest annual mean					460	1965
Highest daily mean	7,580	Apr 28	3,080	Mar 19	10,200	Nov 9, 1996
Lowest daily mean	341	Aug 6	260	Aug 25	3.6	Jun 26, 1979
Annual seven-day minimum	423	Feb 8	275	Aug 28	38	Jun 21, 1979
10 percent exceeds	3,210		1,520		1,680	
50 percent exceeds	1,010		794		660	
90 percent exceeds	494		317		332	



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.