Water-Data Report 2007

04273500 SARANAC RIVER AT PLATTSBURGH, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 44°40′54″, long 73°28′18″ referenced to North American Datum of 1927, 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 4.14 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, 4,350 ft^3/s, Apr. 24, gage height, 6.97 ft, outside gage height was 7.33 ft, from crest-stage gage; minimum discharge, 155 ft^3/s, June 29, Aug. 11; minimum gage height, 2.45 ft, Aug. 11.

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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	424	1,700	1,510	1,050	e876	600	2,220	2,520	515	310	474	265
2	595	1,640	2,490	1,270	e852	608	2,270	2,270	620	307	389	253
3	707	1,500	1,890	1,280	e803	613	2,440	2,190	586	419	533	249
4	537	1,330	1,680	1,210	e757	635	3,060	1,970	742	339	357	241
5	542	1,240	1,420	1,220	e718	632	3,500	1,840	932	471	406	237
6	532	1,200	1,470	1,960	e712	e600	2,800	1,720	887	380	520	245
7	484	1,130	1,330	2,620	e706	574	2,360	1,580	693	348	526	240
8	478	966	961	2,390	e687	e580	2,130	1,600	583	499	455	249
9	469	1,010	1,060	2,540	e687	572	1,930	1,510	584	916	456	261
10	467	1,120	1,090	2,130	e668	650	1,740	1,440	587	1,960	388	305
11	447	1,120	1,080	1,720	e656	701	1,710	1,450	627	2,070	310	292
12	477	1,730	958	1,920	e645	752	1,710	1,370	721	1,670	373	358
13	426	1,760	1,080	1,960	e650	785	1,790	1,260	399	1,080	408	484
14	354	1,540	1,090	1,660	e650	1,020	1,940	1,220	387	1,110	345	495
15	336	1,470	1,060	1,380	e639	e1,500	1,990	1,240	416	830	357	465
16	412	1,460	1,020	e1,230	e645	e1,700	1,970	1,770	342	681	318	303
17	513	2,150	1,030	e1,110	e650	e1,800	2,770	2,340	267	633	389	350
18	880	2,030	1,010	e1,090	e633	1,790	2,680	1,760	359	526	345	423
19	892	1,820	958	e1,080	e622	1,650	2,900	1,680	355	573	498	262
20	1,060	1,730	847	e1,030	e616	1,550	3,320	1,660	663	931	500	307
21	1,620	1,720	845	e990	e581	1,430	3,510	1,620	614	1,240	306	266
22	1,480	1,640	876	e990	e594	1,480	3,690	1,440	646	1,110	288	293
23	1,580	1,530	1,080	e970	e576	1,900	3,930	1,310	565	694	329	297
24	1,640	1,440	1,370	e960	e582	2,170	4,250	1,220	492	743	500	261
25	1,490	1,310	1,350	e960	e570	2,060	3,940	1,170	482	1,000	593	250
26	1,410	1,240	1,240	e930	e582	2,060	3,440	1,120	421	603	564	287
27	1,330	1,230	1,200	e920	e588	2,530	3,140	1,050	408	639	406	311
28	1,470	1,180	1,060	e910	609	3,390	2,940	1,170	365	594	269	957
29	2,030	949	803	e900	---	3,030	2,810	1,060	260	981	251	788
30	1,660	980	689	e890	---	2,550	2,650	881	312	753	255	557
31	1,800	---	910	e886	---	2,400	---	559	---	637	281	---
Total	28,542	42,865	36,457	42,156	18,554	44,312	81,530	46,990	15,830	25,047	12,389	10,551
Mean	921	1,429	1,176	1,360	663	1,429	2,718	1,516	528	808	400	352
Max	2,030	2,150	2,490	2,620	876	3,390	4,250	2,520	932	2,070	593	957
Min	336	949	689	886	570	572	1,710	559	260	307	251	237

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	641	759	751	719	665	1,097	2,013	1,380	824	581	480	494
Max	2,162	1,971	2,071	2,176	1,372	2,487	3,626	3,687	2,757	1,820	1,045	1,220
(WY)	(1978)	(1997)	(1984)	(1998)	(1981)	(1921)	(1993)	(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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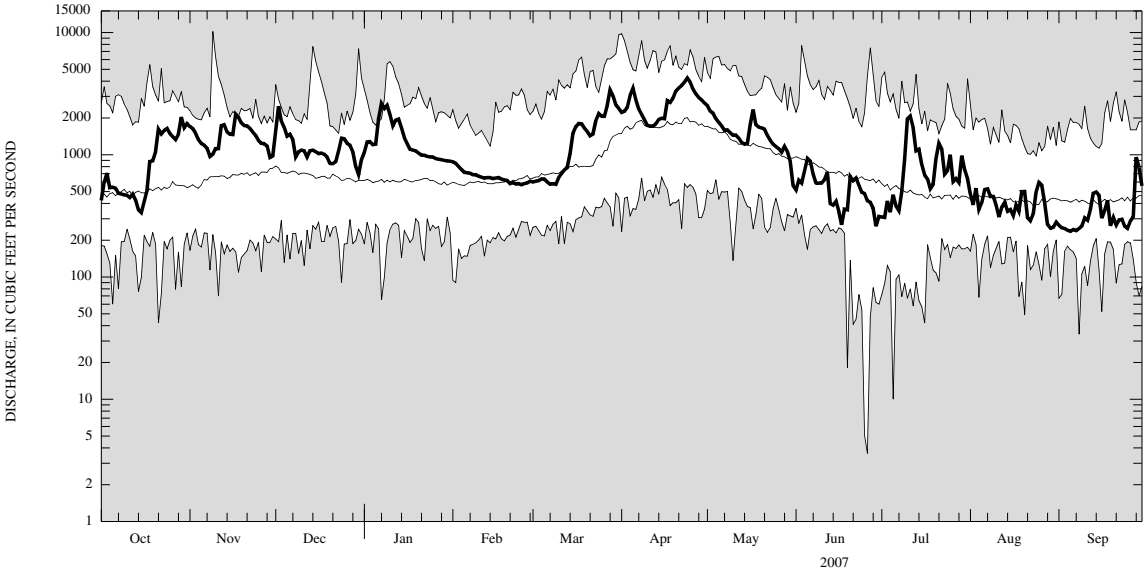
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1903 - 2007	
Annual total	427,877		405,223			
Annual mean	1,172		1,110		868	
Highest annual mean					1,458	1947
Lowest annual mean					460	1965
Highest daily mean	2,670	Apr 24	4,250	Apr 24	10,200	Nov 9, 1996
Lowest daily mean	312	Aug 18	237	Sep 5	3.6	Jun 26, 1979
Annual seven-day minimum	366	Aug 13	245	Sep 2	38	Jun 21, 1979
10 percent exceeds	1,830		2,140		1,670	
50 percent exceeds	1,180		920		647	
90 percent exceeds	435		338		330	



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.