Water-Data Report 2011

04266500 RAQUETTE RIVER AT PIERCEFIELD, NY

St. Lawrence Basin
Raquette Subbasin

LOCATION.--Lat 44°14′05″, long 74°34′20″ referenced to North American Datum of 1927, St. Lawrence County, NY, Hydrologic Unit 04150305, on left bank 0.5 mi downstream from powerplant at Piercefield, and 1.5 mi upstream from Dead Creek.

DRAINAGE AREA.--721 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1908 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 1387: 1910, 1913, 1914(M), 1916, 1921. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,502.12 ft above NGVD of 1929. Prior to Jan. 1, 1911, nonrecording gage at present site at datum 2.00 ft higher and Jan. 1, 1911 to Oct. 21, 1912, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Seasonal distribution of flow modified by natural storage in lakes and ponds upstream from station and by regulation of Forked Lake, Round Lake, Lows Lake, and Raquette Pond (Tupper Lake) at Setting Pole Dam. Extensive diurnal fluctuation caused by powerplant at Piercefield. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s, May 1, 2011, gage height, 13.40 ft; minimum discharge not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 7,000 ft^3/s, May 1, 1900 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft^3/s, May 1, gage height, 13.40 ft; minimum discharge, 342 ft^3/s, June 28, gage height, 3.55 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04266500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04266500.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,790	2,280	1,820	1,050	675	1,020	2,140	10,400	4,250	1,160	773	1,970
2	2,390	2,240	1,840	1,110	709	903	2,060	10,200	4,100	1,120	766	2,070
3	2,520	2,220	1,880	1,130	686	802	2,030	9,880	3,930	1,130	765	2,020
4	2,730	2,170	1,900	1,130	686	797	2,040	9,830	3,810	1,020	743	1,990
5	2,820	2,160	1,970	1,130	690	831	2,140	9,620	3,630	964	724	2,260
6	2,740	2,110	1,960	1,130	709	987	2,170	9,380	3,380	966	707	2,330
7	2,760	2,080	1,970	1,120	700	1,200	2,220	8,990	3,030	950	680	2,330
8	2,740	1,920	1,890	1,110	711	1,380	2,240	8,520	2,800	935	647	2,310
9	2,740	1,870	1,880	1,120	703	1,390	2,260	7,940	2,660	902	660	2,280
10	2,720	1,850	1,810	1,110	697	1,550	2,360	7,360	2,490	879	655	2,250
11	2,680	1,820	1,750	1,080	682	1,960	2,820	6,810	2,400	856	636	2,190
12	2,620	1,780	1,760	1,080	687	2,150	3,470	6,240	2,380	734	618	2,100
13	2,540	1,740	1,840	1,050	675	2,170	4,090	5,690	2,290	823	616	2,090
14	2,400	1,740	1,890	996	688	2,230	4,710	5,240	2,050	795	595	2,050
15	2,350	1,560	1,850	960	668	2,280	5,210	5,050	2,010	605	604	1,990
16	2,400	1,460	1,870	947	668	2,310	5,390	5,150	1,860	466	613	1,760
17	2,440	1,420	1,880	931	662	2,330	5,630	5,150	1,630	490	609	1,680
18	2,460	1,530	1,870	733	680	2,470	5,780	5,120	1,490	742	611	1,650
19	2,470	1,540	1,860	560	700	2,620	5,960	5,000	1,480	789	596	1,650
20	2,450	1,540	1,840	592	709	2,720	6,270	4,950	1,470	814	587	1,610
21	2,430	1,540	1,810	641	785	2,990	6,460	4,900	1,430	814	583	1,580
22	2,360	1,540	1,750	658	821	3,040	6,650	4,760	1,420	920	570	1,530
23	2,350	1,520	1,730	677	799	2,970	6,690	4,610	1,360	770	565	1,440
24	2,320	1,470	1,590	691	778	2,880	6,530	4,390	1,320	730	558	1,370
25	2,300	1,460	1,500	691	867	2,780	6,400	4,140	1,360	719	543	1,360
26	2,270	1,420	1,490	691	901	2,680	6,460	3,930	1,300	710	514	1,210
27	2,260	1,410	1,480	692	884	2,590	7,180	3,840	1,270	669	505	1,200
28	2,240	1,420	1,460	694	979	2,480	8,350	3,890	1,170	658	604	1,130
29	2,220	1,430	1,380	703	---	2,400	9,370	4,040	1,340	699	899	1,130
30	2,280	1,490	1,230	682	---	2,300	10,100	4,190	1,240	731	1,320	1,160
31	2,250	---	1,060	674	---	2,220	---	4,260	---	764	1,870	---
Total	76,040	51,730	53,810	27,563	20,599	63,430	145,180	193,470	66,350	25,324	21,736	53,690
Mean	2,453	1,724	1,736	889	736	2,046	4,839	6,241	2,212	817	701	1,790
Max	2,820	2,280	1,970	1,130	979	3,040	10,100	10,400	4,250	1,160	1,870	2,330
Min	1,790	1,410	1,060	560	662	797	2,030	3,840	1,170	466	505	1,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	903	1,243	1,307	1,154	955	1,325	3,194	2,905	1,316	772	603	619
Max	3,292	3,163	3,439	3,828	2,148	3,577	5,405	6,241	3,982	2,461	1,867	1,790
(WY)	(1946)	(2007)	(1984)	(1998)	(1916)	(1921)	(1993)	(2011)	(1947)	(1972)	(1986)	(2011)
Min	54.7	133	348	343	319	325	1,230	878	396	318	145	109
(WY)	(1948)	(1909)	(1931)	(1918)	(1961)	(1940)	(1995)	(1987)	(1941)	(2003)	(1999)	(2007)

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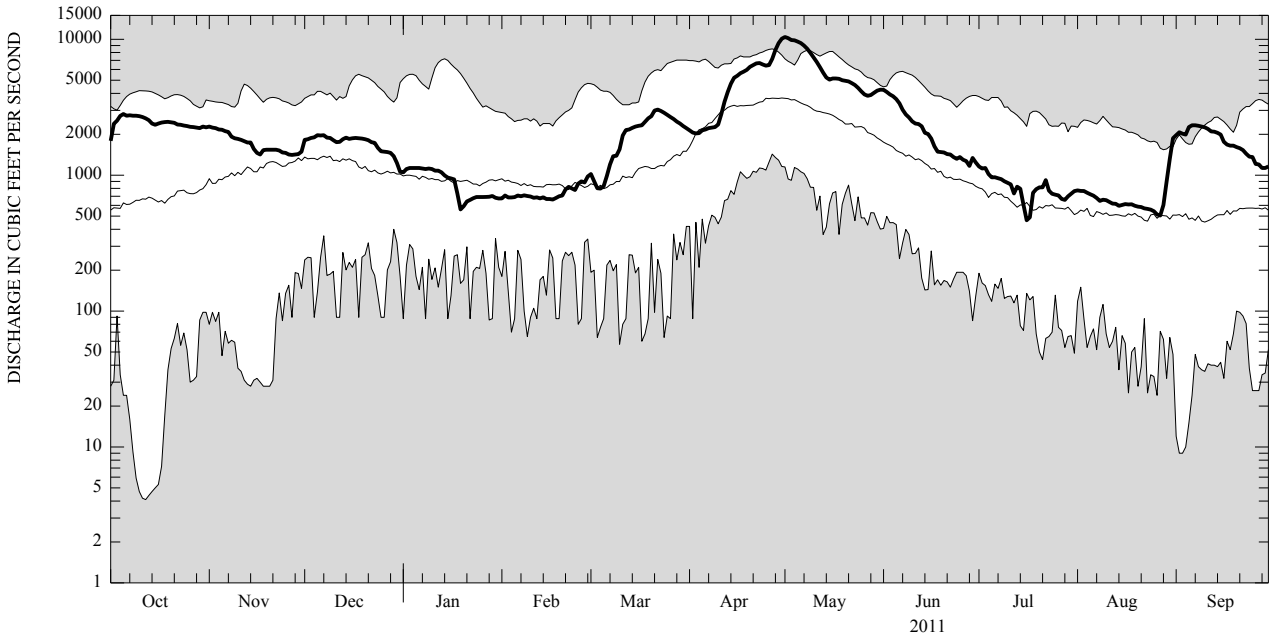
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1908 - 2011	
Annual total	522,292		798,922			
Annual mean	1,431		2,189		1,359	
Highest annual mean					2,189	2011
Lowest annual mean					734	1965
Highest daily mean	3,610	Apr 11	10,400	May 1	10,400	May 1, 2011
Lowest daily mean	169	Aug 20	466	Jul 16	4.1	Oct 12, 1947
Annual seven-day minimum	273	Aug 16	548	Aug 21	4.6	Oct 10, 1947
10 percent exceeds	2,660		4,920		2,940	
50 percent exceeds	1,310		1,730		974	
90 percent exceeds	649		676		367	



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.