Water-Data Report 2011

04235600 SENECA RIVER NEAR PORT BYRON, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 43°04′43″, long 76°38′45″ referenced to North American Datum of 1927, Cayuga County, NY, Hydrologic Unit 04140201, on right bank , 50 ft upstream of State Highway 38 bridge, 3.0 mi north of Port Byron, and 10.1 mi upstream from Cross Lake.

DRAINAGE AREA.--2,815 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Acoustic velocity meter, water-stage recorder, and crest-stage gage. Datum of gage is 369.60 ft above NGVD of 1929.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below Lock 24 & 25, furnished by New York State Thruway Authority, Office of Canals.

REMARKS.--Records good. No estimated daily discharges. A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in the river basin. Seneca River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. During part of the year, entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Telephone and satellite gage-height and velocity telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,600 ft^3/s, Jan. 11, 1998; minimum daily discharge, 258 ft^3/s, Jan. 22, 2002. Maximum and minimum instantaneous discharges not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,300 ft^3/s, May 5; minimum daily discharge, 581 ft^3/s, July 29. Maximum and minimum instantaneous discharges not determined.

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 04235600, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04235600.2011.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	6,040	2,170	6,100	3,450	859	6,520	8,440	10,100	6,740	2,540	773	804
2	7,400	1,300	8,060	4,330	840	7,240	8,380	10,500	6,380	2,420	785	921
3	7,190	949	8,750	4,780	853	7,260	8,200	10,800	5,900	1,810	690	1,650
4	6,390	970	8,560	4,590	867	6,700	8,320	11,000	2,840	1,130	721	2,420
5	6,450	1,350	7,760	4,310	784	6,420	8,510	11,300	2,660	1,010	795	2,530
6	6,930	1,500	6,890	4,100	837	7,540	8,920	11,000	3,030	1,080	791	3,000
7	7,050	1,630	6,400	4,080	950	8,990	8,850	10,600	2,980	1,110	789	3,590
8	7,220	1,970	6,840	3,970	942	9,300	8,560	10,200	2,890	921	863	4,540
9	6,630	2,350	7,080	3,560	920	8,980	8,190	10,200	3,040	821	859	5,570
10	6,210	2,700	7,020	3,000	1,040	8,480	8,050	10,100	3,510	824	1,100	4,890
11	4,280	3,230	6,950	2,690	1,870	9,090	7,960	10,600	3,500	995	1,140	3,910
12	2,140	3,660	6,900	2,370	2,190	10,300	7,910	11,000	3,230	929	1,360	4,030
13	1,610	3,990	7,050	2,210	2,260	10,700	8,000	11,000	2,650	784	1,690	4,440
14	1,800	4,080	7,110	1,990	2,710	10,500	8,400	11,100	1,740	754	1,860	4,620
15	1,530	4,360	6,860	2,010	3,570	9,890	8,610	11,100	1,450	765	1,770	4,510
16	1,360	3,890	6,650	1,880	3,860	9,720	8,500	10,500	1,300	699	1,950	3,820
17	1,790	3,110	6,730	1,820	4,050	9,930	8,520	10,200	1,290	661	2,250	1,720
18	2,040	3,610	6,670	1,680	3,930	10,300	8,880	10,500	1,340	785	1,940	1,520
19	2,250	4,550	6,580	1,240	5,060	10,400	8,990	10,500	1,310	769	1,850	1,930
20	2,100	5,510	6,410	1,220	6,320	10,300	9,060	10,400	1,160	607	1,650	2,620
21	1,570	5,400	6,310	1,230	6,450	10,100	9,180	10,600	1,130	1,240	1,260	2,340
22	1,400	5,540	5,340	1,050	5,960	10,200	9,110	10,400	1,450	1,240	1,100	1,430
23	1,190	5,770	3,660	1,040	5,460	10,400	8,960	8,920	2,140	700	1,180	1,310
24	1,740	5,410	3,190	978	5,230	10,100	9,110	5,750	2,900	722	1,070	1,820
25	2,130	4,800	3,080	986	5,480	10,000	9,440	6,250	3,030	678	1,090	2,410
26	3,920	4,210	2,980	972	5,560	9,980	9,370	6,250	3,160	750	1,190	2,560
27	4,440	3,140	3,420	956	5,500	9,820	9,320	5,990	3,140	760	1,170	2,660
28	4,600	2,840	4,080	948	5,690	9,560	10,400	5,640	2,870	717	1,040	3,020
29	4,910	3,550	3,890	949	---	9,290	10,400	5,770	2,780	581	1,040	2,950
30	4,420	4,960	3,460	943	---	8,740	10,100	5,780	2,670	793	904	3,720
31	3,160	---	3,260	924	---	8,520	---	6,300	---	827	873	---
Total	121,890	102,499	184,040	70,256	90,042	285,270	264,640	290,350	84,210	30,422	37,543	87,255
Mean	3,932	3,417	5,937	2,266	3,216	9,202	8,821	9,366	2,807	981	1,211	2,908
Max	7,400	5,770	8,750	4,780	6,450	10,700	10,400	11,300	6,740	2,540	2,250	5,570
Min	1,190	949	2,980	924	784	6,420	7,910	5,640	1,130	581	690	804

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,052	3,367	4,578	4,243	4,224	5,486	4,914	3,605	2,691	1,702	1,277	1,620
Max	4,133	8,247	8,876	7,671	7,590	9,202	8,862	9,366	5,299	4,550	2,694	6,318
(WY)	(2007)	(1997)	(1997)	(1998)	(1998)	(2011)	(2005)	(2011)	(2002)	(2006)	(2004)	(2004)
Min	894	1,287	1,186	676	2,134	1,684	1,158	1,194	995	786	602	611
(WY)	(1998)	(2000)	(1999)	(2002)	(1997)	(2002)	(2006)	(2006)	(2007)	(2001)	(2001)	(1998)

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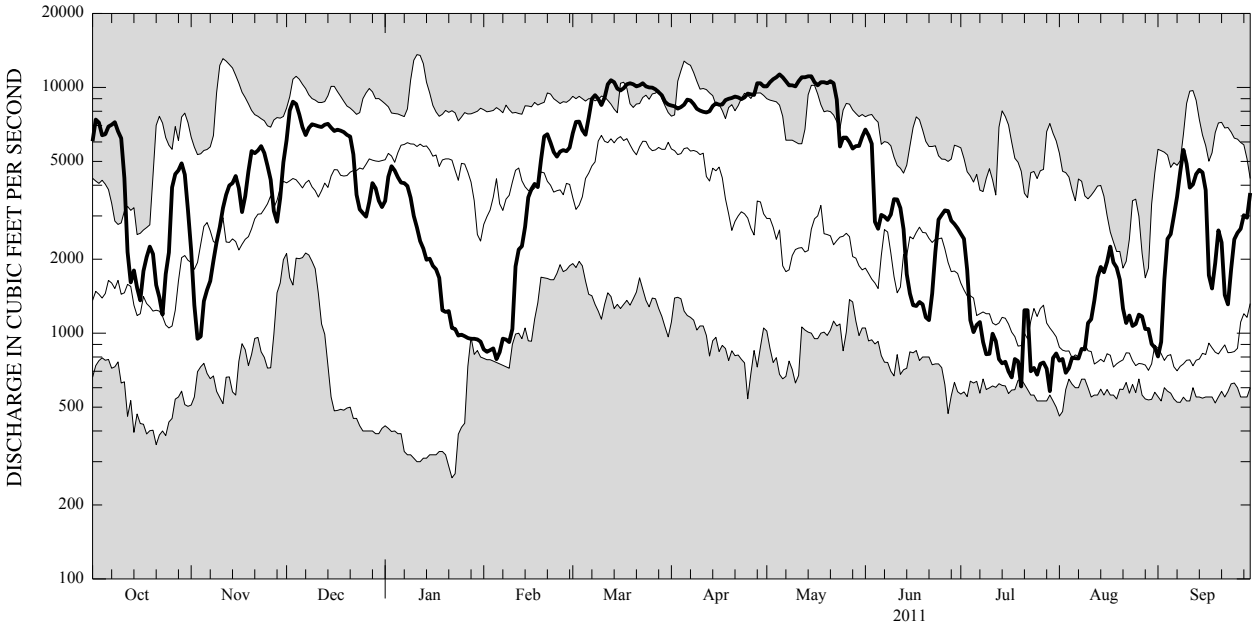
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1997 - 2011	
Annual total	1,061,422		1,648,417			
Annual mean	2,908		4,516		3,377	
Highest annual mean					4,576	2004
Lowest annual mean					1,840	1999
Highest daily mean	8,750	Dec 3	11,300	May 5	13,600	Jan 11, 1998
Lowest daily mean	678	Sep 7	581	Jul 29	258	Jan 22, 2002
Annual seven-day minimum	728	Sep 6	701	Jul 23	310	Jan 8, 1999
10 percent exceeds	6,430		9,990		7,250	
50 percent exceeds	2,180		3,570		2,570	
90 percent exceeds	835		892		750	



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.