Water-Data Report 2011

01321000 SACANDAGA RIVER NEAR HOPE, NY

Upper Hudson Basin
Sacandaga Subbasin

LOCATION.--Lat 43°21′10″, long 74°16′15″ referenced to North American Datum of 1927, Hamilton County, NY, Hydrologic Unit 02020002, on left bank 1.5 mi downstream from West Branch Sacandaga River, on State Highway 30, and 4.5 mi upstream from Hope.

DRAINAGE AREA.--491 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 881.31 ft above NGVD of 1929. Prior to July 24, 1929, nonrecording gage at site 300 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some seasonal regulation on West Branch Sacandaga River at Piseco Lake Outlet, about 17 mi upstream, and, since 1959, diurnal fluctuation caused by powerplant 4 mi upstream from station at Lake Algonquin. Minor fluctuations caused by mill upstream. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft^3/s, Mar. 27, 1913, gage height, 11.0 ft, from floodmarks at site then in use; maximum gage height, 13.32 ft, Mar. 1, 1955 (ice jam); minimum discharge, about 16 ft^3/s, Sept. 30, 1913, gage height, 1.17 ft; minimum gage height, 1.03 ft, Sept. 1, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,100 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1045	13,200	7.37
Dec 1	1830	12,800	7.27
Apr 12	0115	12,000	7.11
Apr 26	0800	12,000	7.10
Apr 28	1530	*15,500	*7.83
Aug 28	2230	12,100	7.13
Sep 8	0315	12,400	7.19

Minimum discharge, 91 ft^3/s, Aug. 6, gage height, 1.45 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 01321000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01321000.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9,710	1,190	5,020	511	e268	e340	982	5,060	1,640	1,470	131	1,480
2	5,520	1,060	7,780	571	e257	e358	1,020	4,130	1,350	1,200	118	1,160
3	3,690	952	4,160	540	e270	e383	1,140	3,540	1,110	1,200	105	916
4	2,680	977	3,120	488	e287	e443	1,350	5,080	917	1,310	102	797
5	2,240	1,490	2,400	459	e288	e583	e2,100	4,690	792	921	96	1,140
6	2,670	1,520	1,980	421	e295	e1,120	2,530	3,720	707	755	98	3,170
7	4,510	1,330	1,630	e396	e296	e2,560	2,280	3,020	640	630	153	3,520
8	3,220	1,200	1,340	e437	e293	e2,450	2,360	2,670	558	539	147	8,300
9	2,550	1,220	1,080	e450	e280	2,230	2,470	2,260	527	463	165	4,710
10	2,050	1,150	931	e396	e280	1,990	3,400	1,890	574	409	431	3,260
11	1,720	1,080	997	e359	e277	2,670	6,360	1,610	550	373	265	2,400
12	1,450	955	1,020	e370	e273	3,810	10,200	1,460	674	313	180	1,860
13	1,200	882	2,350	e399	e276	3,150	8,180	1,290	664	244	161	1,460
14	1,220	812	1,790	e392	e284	2,600	7,000	1,170	718	248	144	1,230
15	1,370	765	1,470	e377	e289	2,270	6,350	1,270	604	199	321	1,130
16	1,750	728	1,350	e360	e267	1,960	5,020	2,380	505	213	1,500	1,090
17	1,460	1,430	1,210	e340	e259	1,910	7,210	3,110	457	202	895	901
18	1,220	1,870	1,120	e343	e298	2,690	5,780	2,430	712	200	462	775
19	1,070	1,450	899	e370	e317	4,170	4,590	2,590	516	206	435	672
20	953	1,300	870	e398	e305	3,180	5,110	3,090	410	196	364	631
21	893	1,160	873	e369	e285	2,790	5,520	2,920	364	179	298	590
22	904	1,070	769	e344	e271	2,310	4,270	2,440	438	164	367	569
23	843	1,320	716	e317	e268	2,060	4,370	2,080	1,090	135	258	627
24	807	1,430	652	e296	e267	1,840	4,790	2,040	1,540	130	239	861
25	831	1,270	566	e300	e277	1,590	4,730	1,810	4,420	137	225	831
26	1,260	1,310	e515	e316	e289	1,400	9,160	1,750	2,980	151	225	698
27	2,470	1,280	e435	e310	e302	1,240	10,700	3,810	2,220	146	711	638
28	2,180	1,120	e436	e307	e311	1,140	12,500	4,820	1,790	134	4,370	573
29	1,740	1,060	575	e293	---	1,060	9,460	3,760	2,320	134	6,750	1,400
30	1,510	1,740	519	e280	---	1,000	6,690	2,720	1,870	177	2,880	2,790
31	1,340	---	498	e272	---	1,020	---	2,110	---	150	2,040	---
Total	67,031	36,121	49,071	11,781	7,929	58,317	157,622	86,720	33,657	12,928	24,636	50,179
Mean	2,162	1,204	1,583	380	283	1,881	5,254	2,797	1,122	417	795	1,673
Max	9,710	1,870	7,780	571	317	4,170	12,500	5,080	4,420	1,470	6,750	8,300
Min	807	728	435	272	257	340	982	1,170	364	130	96	569

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	770	1,135	1,070	893	713	1,654	3,584	1,746	768	436	302	388
Max	2,677	2,727	2,988	2,693	3,197	5,315	6,143	4,342	2,822	2,221	1,225	1,673
(WY)	(1946)	(1960)	(1928)	(1998)	(1981)	(1936)	(1922)	(1972)	(2006)	(1935)	(1915)	(2011)
Min	53.4	205	235	188	172	207	1,096	425	133	72.3	50.0	60.7
(WY)	(1965)	(1965)	(1918)	(1931)	(1920)	(1940)	(1995)	(1941)	(1949)	(1949)	(1999)	(2007)

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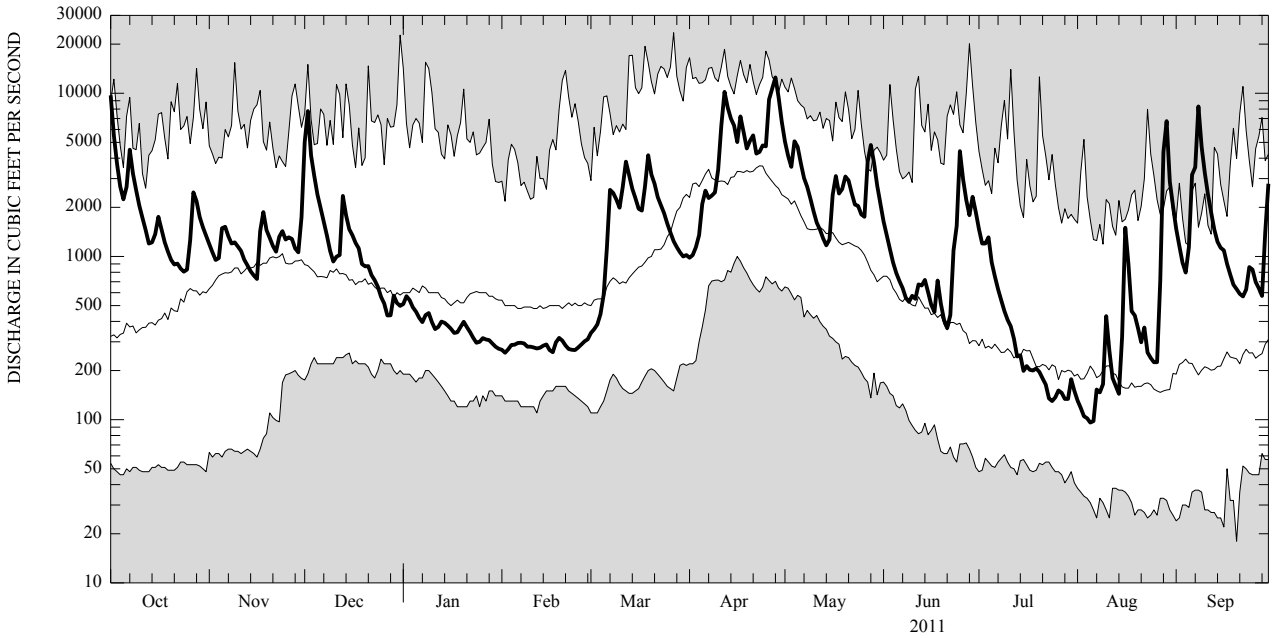
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1911 - 2011	
Annual total	456,227		595,992			
Annual mean	1,250		1,633		1,121	
Highest annual mean					1,706	1976
Lowest annual mean					611	1965
Highest daily mean	14,600	Mar 23	12,500	Apr 28	23,500	Mar 27, 1913
Lowest daily mean	203	Sep 26	96	Aug 5	18	Sep 20, 1913
Annual seven-day minimum	234	Sep 21	114	Jul 31	26	Sep 10, 1913
10 percent exceeds	2,670		4,140		2,700	
50 percent exceeds	776		1,020		590	
90 percent exceeds	329		259		139	



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.