

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, NY

Upper Hudson Basin
Sacandaga Subbasin

LOCATION.--Lat 43°18'41", long 73°52'04" referenced to North American Datum of 1927, Saratoga County, NY, Hydrologic Unit 02020002, on left bank 1.0 mi downstream from Stewarts Bridge, 1.1 mi west of Hadley, 1.4 mi upstream from mouth, and 1.5 mi downstream from Stewarts Bridge hydroelectric plant.

DRAINAGE AREA.--1,055 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1907 to current year. Published as "near Hadley" 1907-1910, "at Hadley" 1911-32 and "at Conklingville" 1932-52. Records published for both sites October 1951 to September 1952.

REVISED RECORDS.--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21. WDR NY-83-1: 1968(M), 1971-72(M), 1976-77(M), 1979(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 582.00 ft above NGVD of 1929. Prior to Jan. 1, 1911, nonrecording gage at site about 1 mi upstream at different datum. Jan. 1, 1911 to Sept. 30, 1932, water-stage recorder at site 0.8 mi downstream at datum 8.82 ft lower than present datum. Oct. 1, 1932 to Sept. 30, 1952, water-stage recorder at site 3.6 mi upstream at datum 85.47 ft higher than present datum.

COOPERATION.--From Oct. 1, 1932, to Dec. 4, 1979, discharge computed by Board of Hudson River-Black River Regulating District from rating developed by U.S. Geological Survey. Since Dec. 4, 1979, discharge computed by U.S. Geological Survey.

REMARKS.--No estimated daily discharges. Records good except those below about 50 ft³/s, which are fair. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); discharge over spillway, part or all of several days in 1983, 1990, 1993, 2000, 2003-04, 2006-08 (only spillage since completion of Conklingville Dam in 1930). Extensive diurnal fluctuation caused by release of water from Great Sacandaga Lake, through Elmer J. West hydroelectric station directed by Board of Hudson River-Black River Regulating District and through Stewarts Bridge hydroelectric station. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,500 ft³/s, Mar. 28, 1913, gage height, 12.36 ft, site and datum then in use; minimum, 4.2 ft³/s, May 4, 1985, Mar. 30, 31, Apr. 1-10, 11, 13, 14, 15, 1992. Maximum discharge since construction of Conklingville Dam in 1930, 14,200 ft³/s, Feb. 7, 2006, May 3, 2007; maximum gage height, 9.78 ft, May 3, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,410 ft³/s, May 3, gage height, 6.20 ft; minimum discharge, 27 ft³/s, Oct. 27, 28, gage height, 0.60 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,720	3,840	3,450	3,370	4,170	945	86	3,050	1,700	2,320	4,040	2,800
2	1,630	4,010	2,260	4,240	4,170	907	240	2,080	2,170	3,080	4,050	4,380
3	1,540	4,080	2,260	3,650	4,180	2,920	88	3,510	3,060	2,100	2,190	4,070
4	1,590	4,010	1,220	3,870	4,120	2,920	166	3,320	3,240	2,430	3,460	4,110
5	1,570	3,410	1,060	3,970	4,110	2,890	85	2,810	3,660	2,570	4,070	4,500
6	1,600	2,290	1,540	3,860	4,140	2,920	86	3,120	2,500	2,140	4,050	4,160
7	1,720	3,030	1,650	4,050	4,120	2,850	320	3,130	902	1,560	4,220	4,080
8	1,620	4,200	1,610	4,050	4,150	2,990	79	2,440	914	1,400	4,250	3,970
9	1,580	4,250	1,630	4,180	2,580	1,580	78	3,270	1,310	1,430	4,130	3,090
10	1,580	3,580	1,570	4,100	1,090	948	868	3,440	2,010	1,410	4,040	1,280
11	1,600	2,320	2,240	3,970	919	1,210	1,450	2,760	1,550	1,430	4,080	1,260
12	1,580	2,200	2,830	4,060	920	81	2,090	2,430	1,350	1,380	4,090	1,410
13	1,560	2,320	3,340	4,050	923	78	2,090	422	2,240	1,370	4,070	1,250
14	1,600	3,170	3,900	4,190	1,760	612	2,210	405	2,240	1,390	2,220	1,410
15	1,610	4,260	3,860	3,890	1,790	1,060	2,440	421	2,050	1,440	1,920	1,380
16	1,620	3,850	3,540	3,900	1,770	1,090	3,210	2,430	2,250	1,430	1,750	1,450
17	1,540	2,480	3,470	3,250	1,600	1,230	3,360	1,420	3,110	1,400	1,730	1,560
18	1,430	2,300	3,460	3,730	1,580	958	3,470	298	3,050	1,390	1,760	1,530
19	1,420	2,280	3,680	3,810	1,540	88	3,400	69	2,240	1,410	1,810	1,560
20	1,420	2,300	4,090	3,850	1,450	85	2,010	415	2,780	1,360	1,750	1,580
21	1,400	3,060	4,130	4,010	1,610	1,580	2,940	1,870	2,910	1,360	1,730	1,580
22	1,390	4,240	4,170	4,140	1,260	2,000	2,470	2,830	3,050	1,430	1,880	1,700
23	1,330	4,180	4,100	4,140	1,090	2,390	2,070	3,370	3,830	1,430	1,830	1,750
24	1,380	3,520	4,090	4,010	1,060	2,530	2,450	3,530	4,050	1,430	1,880	1,710
25	1,380	2,330	3,960	4,140	950	3,060	2,930	3,260	4,080	1,400	1,490	1,710
26	1,360	2,250	3,730	4,130	949	3,320	2,910	3,770	4,070	1,390	1,950	1,830
27	533	2,990	3,800	4,190	936	3,320	2,590	4,120	4,060	1,390	4,180	1,740
28	1,130	4,190	4,070	4,180	913	1,860	2,720	2,080	4,140	1,400	4,100	1,570
29	1,200	4,140	1,980	4,210	---	112	2,750	572	4,060	1,400	1,470	1,570
30	2,550	4,280	1,610	4,150	---	165	2,740	402	4,040	2,410	1,560	1,240
31	3,260	---	2,280	4,220	---	87	---	414	---	4,070	2,730	---
Total	48,443	99,360	90,580	123,560	59,850	48,786	54,396	67,458	82,616	53,550	88,480	67,230
Mean	1,563	3,312	2,922	3,986	2,138	1,574	1,813	2,176	2,754	1,727	2,854	2,241
Max	3,260	4,280	4,170	4,240	4,180	3,320	3,470	4,120	4,140	4,070	4,250	4,500
Min	533	2,200	1,060	3,250	913	78	78	69	902	1,360	1,470	1,240
Adjusted for change in contents in Great Sacandaga Lake and Stewarts Bridge Pool												
Mean	1322	1809	3658	1343	1189	5544	4874	2891	2304	1293	2093	811
Cfsm	1.25	1.71	3.47	1.27	1.13	5.25	4.62	2.74	2.18	1.23	1.98	0.77
In	1.44	1.91	4.00	1.47	1.17	6.06	5.15	3.16	2.44	1.41	2.29	0.86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2009, BY WATER YEAR (WY)

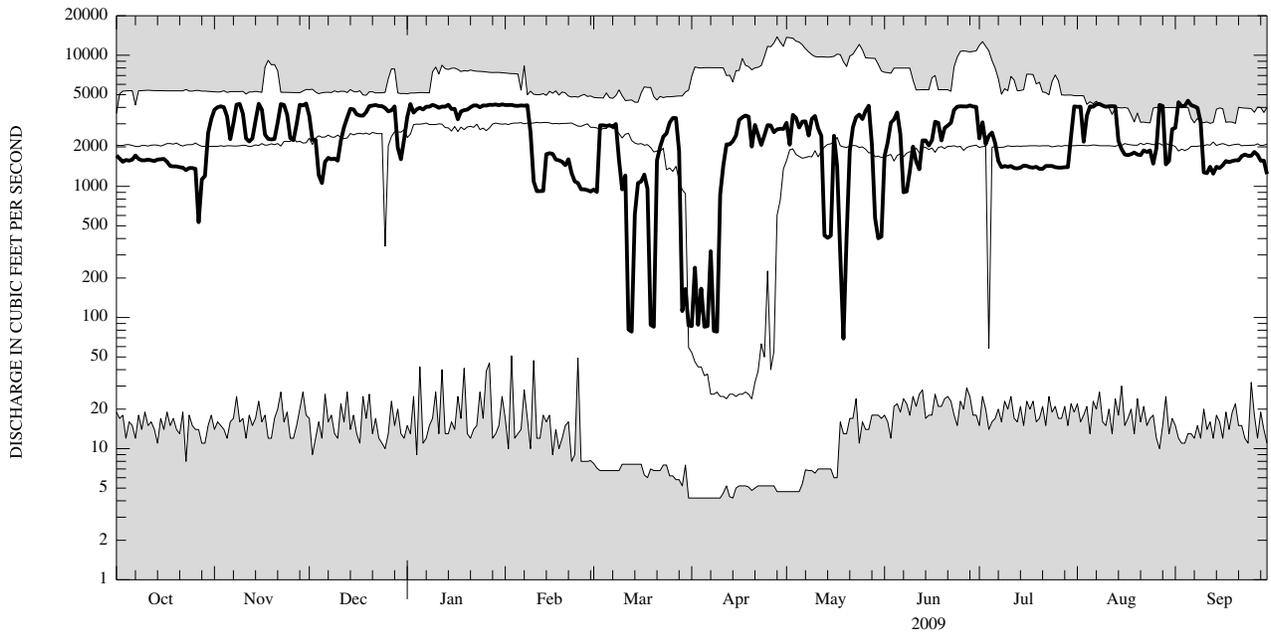
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,920	2,245	2,557	2,835	2,861	2,035	1,216	2,443	2,075	1,951	1,933	1,840
Max	5,149	5,177	4,935	6,448	4,910	3,921	5,769	7,035	5,203	5,575	3,013	2,846
(WY)	(1946)	(1976)	(1960)	(2007)	(1973)	(1972)	(2008)	(1983)	(1947)	(2006)	(1935)	(1994)
Min	508	968	1,117	1,210	1,144	89.0	5.85	40.5	712	927	872	963
(WY)	(1996)	(1998)	(1965)	(1965)	(1931)	(1954)	(1985)	(1931)	(1987)	(1941)	(1995)	(1941)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1931 - 2009	
Annual total	968,652		884,309			
Annual mean	2,647		2,423		2,157	
Annual mean (adjusted)	2,777		2,438			
Highest annual mean					3,452	1976
Lowest annual mean					1,122	1965
Highest daily mean	13,800	Apr 28	4,500	Sep 5	13,800	Apr 28, 2008
Lowest daily mean	35	Jan 13	69	May 19	4.2	Mar 31, 1992
Annual seven-day minimum	326	Apr 2	120	Mar 31	4.2	Mar 31, 1992
Annual runoff (cfsm, adjusted)*	2.63		2.31			
Annual runoff (inches, adjusted)*	35.73		31.45			
10 percent exceeds	4,080		4,120		4,070	
50 percent exceeds	2,160		2,250		2,070	
90 percent exceeds	846		941		37	

* Water years 1908 to current, adjusted for storage in Great Sacandaga Lake since 1930 and in Stewarts Bridge pool since 1953.



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.