

**01335754 HUDSON RIVER ABOVE LOCK 1 NEAR WATERFORD, NY**

Upper Hudson Basin  
Hudson-Hoosic Subbasin

LOCATION.--Lat 42°49'45", long 73°40'00" referenced to North American Datum of 1927, Saratoga County, NY, Hydrologic Unit 02020003, 0.4 mi upstream from dam at Lock 1c, 2.8 mi northeast of Waterford, and 3.4 mi downstream from dam at Lock 2c Champlain (Barge) Canal.

DRAINAGE AREA.--4,605 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1887 to September 1956, October 1976 to current year. Prior to October 1976, published as "at Mechanicville" (01335500, drainage area 4,500 mi<sup>2</sup>). Daily discharge records from October 1976 to September 1981 are published with suspended-sediment data as 01335770 Hudson River at Waterford, NY.

REVISED RECORDS.--WDR NY-99-1: 1998.

GAGE.--Water-stage recorder. Since October 1, 1998, supplementary water-stage and tainter gate-position recorders, 0.4 mi downstream at dam at lock 1C. Datum of gage is NGVD of 1929. Prior to October 1976, various gages at site 5.8 mi upstream at different datum. Prior to February 1978, nonrecording gage 200 ft downstream.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated appreciably by Great Sacandaga Lake (see station 01323500) and Indian Lake (see station 01314500). Diurnal fluctuation caused by powerplants upstream from station. Water is diverted into St. Lawrence River basin through Glens Falls feeder, Bond Creek, and Champlain (Barge) Canal, and occasionally may be received from that basin through summit level of Champlain (Barge) Canal at Dunham Basin. Water-discharge data for July 1992 through May 1994 based on records for Hudson River at Stillwater (01331095) and Hoosic River near Eagle Bridge (01334500) due to reconstruction of dam at Lock 1c. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to construction of Great Sacandaga Lake in 1930, 120,000 ft<sup>3</sup>/s, Mar. 28, 1913; maximum discharge since construction of lake, 118,000 ft<sup>3</sup>/s, Jan. 1, 1949; maximum gage height, 36.38 ft, May 30, 31, 1984; minimum daily discharge since construction of lake, 614 ft<sup>3</sup>/s, Feb. 1, 1931; minimum instantaneous discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 42,000 ft<sup>3</sup>/s, June 29; maximum gage height, 32.79 ft, Oct. 9, Apr. 24; minimum daily discharge, 2,910 ft<sup>3</sup>/s, Sept. 13; minimum instantaneous discharge not determined.

## 01335754 HUDSON RIVER ABOVE LOCK 1 NEAR WATERFORD, NY—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,810	14,500	28,900	14,600	15,900	8,450	e6,400	12,500	14,500	e31,000	e11,800	4,950
2	4,900	15,300	26,700	13,400	13,900	8,390	e8,200	11,800	13,600	e27,500	e11,400	5,960
3	4,050	13,500	23,600	12,700	13,900	7,950	9,880	11,600	15,900	e24,500	9,890	5,100
4	3,800	12,700	19,700	12,100	18,100	7,760	e13,200	11,800	22,500	e20,500	10,500	3,860
5	3,780	12,100	17,000	11,500	19,700	7,520	e13,000	11,700	e17,000	e18,500	10,800	3,800
6	3,950	11,800	16,200	11,100	22,100	7,450	e11,200	11,400	e19,000	16,300	9,340	3,670
7	3,730	12,700	13,900	10,500	23,900	7,890	e10,800	11,100	18,500	14,600	8,920	3,850
8	e9,700	12,500	12,700	10,100	22,100	6,960	e11,200	10,200	20,900	13,500	8,870	3,400
9	e33,000	11,800	11,500	9,780	14,400	7,520	e10,500	5,000	19,400	12,000	8,130	3,380
10	e22,000	e17,500	11,100	9,840	14,800	8,510	e10,000	4,770	22,500	11,000	7,820	3,040
11	e11,000	e17,000	10,800	9,950	13,500	7,340	e9,700	5,110	20,600	10,900	7,770	3,320
12	e10,000	14,900	10,600	13,000	12,600	8,240	e9,600	5,530	18,200	11,400	5,070	3,250
13	12,300	13,300	10,300	13,500	11,800	9,150	e8,100	9,780	16,100	15,900	4,010	2,910
14	13,800	13,200	9,560	16,400	12,000	19,800	e8,000	14,100	14,700	14,600	3,700	3,200
15	e15,000	12,900	9,930	24,600	11,500	19,700	e7,500	17,200	13,400	13,900	3,470	4,390
16	e19,000	e16,000	8,990	17,300	10,800	14,300	e7,700	18,400	13,000	13,200	3,420	4,540
17	e16,000	e26,000	10,100	16,500	10,400	12,100	e8,000	19,000	12,400	e12,300	3,340	3,970
18	e13,000	e28,000	9,920	23,600	12,000	11,300	8,230	18,600	11,800	e11,900	3,380	3,870
19	e12,000	e24,000	9,580	38,800	9,860	10,200	7,340	20,000	10,500	e11,500	3,260	3,620
20	e11,000	e16,000	8,770	30,500	9,890	10,300	7,490	25,000	10,300	e11,300	5,090	3,490
21	11,600	e15,000	8,380	25,500	10,300	9,750	7,260	23,500	9,620	e11,400	6,650	3,500
22	9,870	16,600	8,280	22,600	9,300	9,660	7,000	22,900	9,470	e11,800	5,870	3,820
23	e17,000	e17,000	8,310	19,500	10,000	9,100	11,600	19,200	9,140	e16,300	4,440	3,910
24	e16,000	e16,000	8,210	17,000	9,280	8,770	24,500	16,500	8,930	e13,000	3,830	3,910
25	e19,500	e14,300	8,260	14,700	9,370	8,680	21,100	15,000	9,040	e12,200	3,020	4,950
26	e29,000	e13,000	12,100	13,700	8,920	8,550	21,600	14,500	13,900	e12,000	3,340	4,430
27	e25,500	e12,300	14,600	12,500	8,380	8,560	22,400	12,900	21,100	e11,500	3,410	3,130
28	e19,000	e12,000	12,700	12,500	8,750	8,370	17,300	11,700	20,100	e11,700	3,590	3,420
29	e16,500	e15,000	12,000	12,800	---	e8,400	15,000	11,400	e39,000	e12,000	4,100	4,240
30	14,800	26,700	21,000	14,100	---	7,440	13,600	11,000	e34,000	e12,800	4,130	5,690
31	14,200	---	17,300	15,600	---	5,390	---	15,900	---	e11,000	4,660	---
<b>Total</b>	419,790	473,600	410,990	500,270	367,450	293,500	347,400	429,090	499,100	452,000	187,020	118,570
<b>Mean</b>	13,540	15,790	13,260	16,140	13,120	9,468	11,580	13,840	16,640	14,580	6,033	3,952
<b>Max</b>	33,000	28,000	28,900	38,800	23,900	19,800	24,500	25,000	39,000	31,000	11,800	5,960
<b>Min</b>	3,730	11,800	8,210	9,780	8,380	5,390	6,400	4,770	8,930	10,900	3,020	2,910

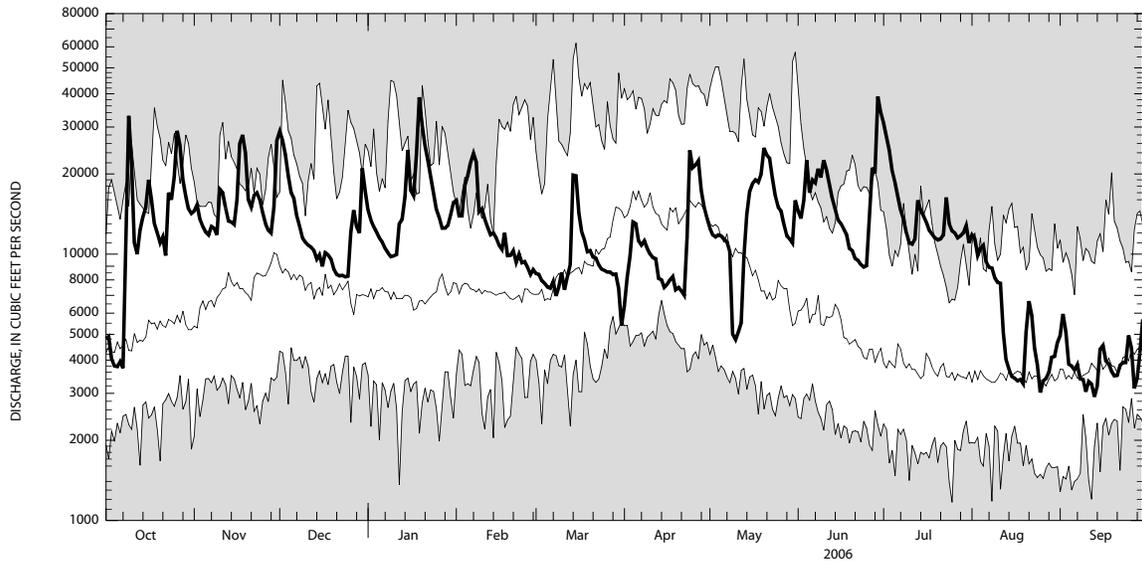
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2006, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	5,637	7,629	8,094	8,073	7,451	10,930	15,880	11,070	6,669	4,584	3,989	4,210
<b>Max</b>	16,560	15,790	18,960	18,480	16,250	25,600	29,480	24,610	16,750	14,580	8,605	11,320
<b>(WY)</b>	(1978)	(2006)	(1997)	(1949)	(1981)	(1936)	(1993)	(1996)	(1947)	(2006)	(2000)	(1938)
<b>Min</b>	2,378	2,539	2,696	2,063	1,611	3,440	5,508	2,622	2,009	1,937	1,604	2,169
<b>(WY)</b>	(1942)	(1931)	(1931)	(1931)	(1931)	(1931)	(1995)	(1941)	(1941)	(1941)	(1941)	(1941)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1931 - 2006	
<b>Annual total</b>	3,670,060		4,498,780			
<b>Annual mean</b>	10,050		12,330		7,846	
<b>Highest annual mean</b>					12,330	2006
<b>Lowest annual mean</b>					4,240	1931
<b>Highest daily mean</b>	41,000	Apr 4	39,000	Jun 29	94,400	Dec 31, 1948
<b>Lowest daily mean</b>	2,410	Aug 26	2,910	Sep 13	614	Feb 1, 1931
<b>Annual seven-day minimum</b>	3,040	Aug 6	3,210	Sep 8	1,180	Feb 1, 1931
<b>10 percent exceeds</b>	19,000		20,900		15,500	
<b>50 percent exceeds</b>	8,600		11,600		5,800	
<b>90 percent exceeds</b>	3,420		3,990		2,860	



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.