01318500 HUDSON RIVER AT HADLEY, NY

Upper Hudson Basin
Upper Hudson Subbasin

LOCATION.--Lat 43°19′08″, long 73°50′41″ referenced to North American Datum of 1927, Saratoga County, NY, Hydrologic Unit 02020001, on right bank at Hadley, 400 ft downstream from outlet of Lake Luzerne, and 0.3 mi upstream from Sacandaga River.

DRAINAGE AREA.--1,664 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1921 to current year.

REVISED RECORDS.--WSP 561: 1921-22. WSP 756: Drainage area. WSP 1432: 1931 (m).

GAGE.--Water-stage recorder. Datum of gage is 563.99 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation caused by powerplant on Schroon River. Flow regulated by Indian Lake (see station 01314500), Lake Abanakee and other reservoirs upstream from station. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft^3/s, Jan. 1, 1949, gage height, 21.21 ft; minimum discharge, 196 ft^3/s, Sept. 3, 1999, gage height, 0.63 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge for the flood of March 27, 1913, was about 49,000 ft^3/s, based on peak runoff comparison with a station 12.7 mi upstream (drainage area 1,533 mi^2).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 19	0000	16,300	10.42
Jun 29	0245	*21,900	*12.73

Minimum discharge, 571 ft^3/s, Aug 20, gage height, 1.72 ft.

01318500 HUDSON RIVER AT HADLEY, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

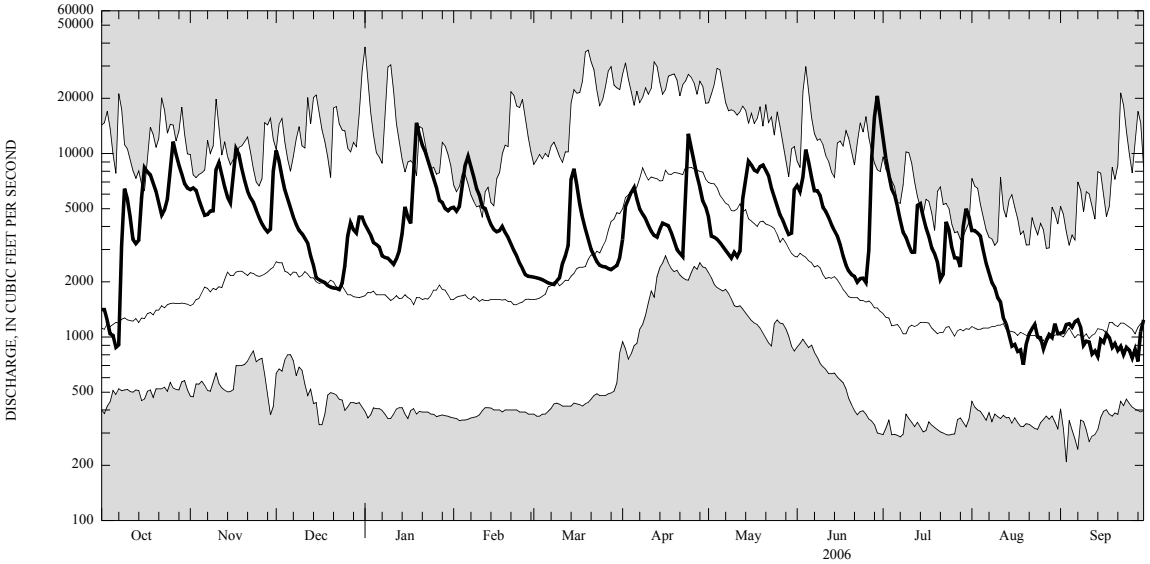
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,410	6,350	10,400	4,100	5,090	e2,120	3,400	4,510	6,700	12,000	3,800	1,050
2	1,410	6,500	9,090	3,830	4,850	e2,100	5,150	3,540	6,200	9,360	3,800	1,060
3	1,230	6,300	7,510	3,600	5,150	e2,080	5,630	3,500	7,410	7,670	3,690	1,170
4	1,040	5,600	6,330	3,270	6,670	e2,050	6,140	3,410	10,500	6,420	3,560	1,180
5	1,020	5,050	5,630	3,190	8,630	e2,010	6,540	3,270	8,970	5,930	2,960	1,130
6	877	4,610	5,040	3,090	9,640	e1,970	5,640	3,120	7,410	5,130	2,520	1,210
7	907	4,650	4,510	2,770	8,460	e1,950	4,970	2,970	6,260	4,340	2,230	1,240
8	3,130	4,850	4,110	2,710	7,410	e1,930	4,670	2,830	6,270	3,720	1,980	1,130
9	6,430	4,860	3,810	2,690	6,460	e2,020	4,420	2,690	5,910	3,490	1,860	900
10	5,640	8,170	3,660	2,590	5,940	2,100	4,070	2,890	5,090	3,160	1,640	949
11	4,540	8,920	3,450	2,490	5,120	2,510	3,770	2,740	4,840	2,890	1,550	939
12	3,400	7,690	e3,240	2,660	5,010	2,770	3,580	2,940	4,480	2,900	1,270	807
13	3,230	6,560	e2,770	2,950	4,500	3,160	3,500	5,670	4,090	5,220	1,180	840
14	3,370	5,780	e2,450	3,650	4,100	7,250	3,870	7,270	3,790	5,330	1,030	783
15	5,730	5,380	e2,100	5,120	3,850	8,240	4,170	9,090	3,540	4,510	891	967
16	8,370	7,780	e2,050	4,490	3,750	6,740	4,100	8,650	3,180	3,940	911	934
17	7,940	10,600	e2,010	4,160	3,800	5,310	4,040	8,120	2,760	3,530	835	1,040
18	7,660	9,860	e1,980	8,470	4,000	4,480	3,710	7,960	2,470	3,060	852	992
19	6,900	8,250	e1,910	14,700	e3,710	3,880	3,330	8,490	2,290	2,840	707	878
20	6,200	7,090	e1,870	12,600	e3,490	3,400	3,000	8,650	2,190	2,550	918	921
21	5,360	6,240	e1,850	11,100	e3,220	3,000	2,860	8,100	2,140	2,060	1,040	845
22	4,620	5,730	e1,840	10,300	e2,970	2,790	2,740	7,570	1,990	2,200	1,110	888
23	4,930	5,410	e1,810	9,200	e2,770	2,580	6,200	6,480	2,080	4,240	1,170	800
24	5,650	4,910	e1,960	8,200	e2,530	2,460	12,800	5,770	2,090	3,820	1,000	878
25	8,240	4,490	e2,440	7,300	e2,360	2,420	10,800	5,170	1,980	3,060	991	847
26	11,600	4,140	3,540	6,480	e2,190	2,410	9,070	4,620	2,950	2,700	861	769
27	9,880	3,910	4,190	5,560	e2,140	2,360	7,550	4,310	9,390	2,690	956	856
28	8,630	3,730	3,840	5,410	e2,130	2,330	6,550	3,930	15,700	2,410	1,030	736
29	7,710	3,860	3,680	5,010	---	2,390	5,520	3,620	20,600	3,990	993	1,070
30	6,850	8,000	4,500	4,870	---	2,450	5,120	3,680	15,900	5,000	1,180	1,240
31	6,480	---	4,500	5,030	---	2,710	---	6,350	---	4,520	1,040	---
Total	160,384	185,270	118,070	171,590	129,940	95,970	156,910	161,910	179,170	134,680	49,555	29,049
Mean	5,174	6,176	3,809	5,535	4,641	3,096	5,230	5,223	5,972	4,345	1,599	968
Max	11,600	10,600	10,400	14,700	9,640	8,240	12,800	9,090	20,600	12,000	3,800	1,240
Min	877	3,730	1,810	2,490	2,130	1,930	2,740	2,690	1,980	2,060	707	736

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,953	2,720	2,622	2,287	2,019	3,632	8,377	5,280	2,502	1,485	1,217	1,342
Max	7,087	6,293	6,925	6,876	6,948	11,670	14,230	11,820	9,497	4,345	2,947	4,135
(WY)	(1978)	(2004)	(1984)	(1998)	(1981)	(1936)	(1993)	(1972)	(1947)	(2006)	(2000)	(1938)
Min	575	681	551	397	384	451	2,531	1,576	737	392	396	532
(WY)	(1965)	(1931)	(1931)	(1931)	(1940)	(1940)	(1995)	(1987)	(1988)	(1934)	(1985)	(2002)

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1922 - 2006	
Annual total	1,330,288		1,572,498			
Annual mean	3,645		4,308		2,951	
Highest annual mean					4,574	1976
Lowest annual mean					1,408	1965
Highest daily mean	21,700	Apr 4	20,600	Jun 29	38,100	Jan 1, 1949
Lowest daily mean	429	Aug 27	707	Aug 19	208	Sep 3, 1999
Annual seven-day minimum	538	Aug 17	825	Sep 22	299	Jul 20, 1934
10 percent exceeds	8,240		8,220		6,550	
50 percent exceeds	2,200		3,720		1,810	
90 percent exceeds	819		1,040		781	



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.