

## 01434000 DELAWARE RIVER AT PORT JERVIS, NY

Upper Delaware Basin  
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 41°22'14", long 74°41'52" referenced to North American Datum of 1927, Pike County, PA, Hydrologic Unit 02040104, on right bank 250 ft downstream from bridge on U.S. Highways 6 and 209 between Port Jervis, NY and Matamoras, PA, 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River.

DRAINAGE AREA.--3,070 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1904 to current year.

REVISED RECORDS.--WSP 1031: 1905-36. WDR NY-71-1: 1970. WDR NY-82-1: Drainage area. WDR NY-86-1: 1979-80. WDR NY-04-1: 2003.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 415.35 ft above NGVD of 1929. October 1904 to August 13, 1928, non-recording gage at bridge 250 ft upstream at present datum; operated by U.S. Weather Service prior to June 20, 1914.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Prompton and General Edgar Jadwin reservoirs, Lake Wallenpaupack, and Toronto (01433100), Cliff Lake (01433200), and Swinging Bridge reservoirs (01433000) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi<sup>2</sup> of drainage area controlled by Pepacton Reservoir (01416900), and subsequent to October 1963, entire flow from 454 mi<sup>2</sup> of drainage area controlled by Cannonsville Reservoir (01424997). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite and telephone gage-height telemeter and National Weather Service telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to current degree of regulation, 233,000 ft<sup>3</sup>/s, Aug. 19, 1955, gage height, 23.91 ft, from floodmarks in gage house, outside gage height was 24.16 ft, from floodmark, from rating curve extended above 130,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow; maximum discharge since current degree of regulation, 189,000 ft<sup>3</sup>/s, June 28, 2006, gage height, 21.47 ft, outside gage height was 22.16 ft, from crest-stage gage; maximum gage height, 26.6 ft, Feb. 12, 1981 (ice jam), from floodmarks; minimum observed discharge, 175 ft<sup>3</sup>/s, Sept. 23, 1908, gage height, 0.6 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The U.S. Weather Bureau reported a discharge of 205,000 ft<sup>3</sup>/s, Oct. 10, 1903, gage height, 23.1 ft, from rating curve extended above 70,000 ft<sup>3</sup>/s, by velocity-area studies; maximum gage height, 25.5 ft, Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,100 ft<sup>3</sup>/s, Jan. 26, gage height, 10.38 ft; minimum discharge, 979 ft<sup>3</sup>/s, Sept. 30, gage height, 2.17 ft.

## 01434000 DELAWARE RIVER AT PORT JERVIS, NY—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,890	7,690	3,470	5,880	e6,800	5,420	27,800	4,510	1,920	1,560	1,520	1,660
2	1,680	7,340	3,600	5,450	e6,200	4,690	21,800	4,010	2,080	1,540	1,720	1,570
3	1,700	7,130	5,690	5,720	e5,500	4,450	16,900	4,160	2,110	1,450	1,640	1,670
4	1,610	6,120	9,580	5,250	5,110	4,640	14,000	4,270	2,270	1,790	1,730	1,730
5	1,600	5,620	6,690	5,360	4,680	4,890	12,000	4,060	1,800	1,660	1,730	1,750
6	1,530	5,300	5,460	5,330	4,190	4,260	10,500	3,710	1,770	1,870	1,760	1,660
7	1,470	5,060	5,290	5,170	3,980	3,920	9,050	3,450	1,950	1,790	1,770	1,580
8	1,640	4,470	5,280	4,470	4,110	4,470	7,990	2,830	2,390	1,710	1,760	1,690
9	1,530	4,460	5,530	4,590	4,230	5,820	7,760	3,230	1,950	1,720	1,740	1,600
10	1,800	4,560	6,100	4,180	4,410	6,730	7,200	3,340	2,390	1,980	1,770	1,580
11	1,640	4,510	5,610	4,470	4,290	7,570	6,050	3,000	2,770	1,750	1,790	1,720
12	1,630	4,080	4,800	5,170	4,100	12,400	5,740	3,320	2,190	1,540	1,860	1,830
13	1,810	3,760	4,060	5,640	3,540	17,200	5,070	4,240	3,580	1,580	1,930	1,650
14	1,530	3,360	5,880	5,150	3,610	26,900	4,830	3,760	5,480	1,650	1,750	1,830
15	1,630	2,590	7,540	4,790	3,770	27,000	4,410	3,390	4,230	1,450	1,720	1,840
16	1,730	2,990	7,670	3,940	3,630	21,200	4,240	3,220	3,220	1,680	1,980	1,720
17	1,630	3,110	7,340	3,890	3,450	16,700	4,430	2,940	2,800	1,530	2,160	1,450
18	1,680	2,800	6,140	4,810	3,310	14,100	4,660	2,870	2,830	1,440	2,010	1,460
19	1,600	2,410	5,550	6,360	3,300	12,500	4,220	3,370	2,530	1,700	1,730	1,320
20	1,710	3,440	5,720	5,510	2,700	11,300	3,930	3,460	2,180	1,580	1,540	1,400
21	1,620	5,610	5,550	4,830	2,480	10,200	3,580	3,180	2,120	1,570	1,560	1,480
22	1,710	4,470	5,790	4,310	2,530	9,840	3,460	2,550	2,190	1,670	1,690	1,450
23	1,630	4,150	6,170	3,450	2,660	24,300	3,630	2,270	2,200	1,990	3,450	1,550
24	1,900	4,170	5,740	3,860	2,890	29,200	2,620	2,180	2,330	2,620	7,390	1,600
25	10,800	4,030	5,190	9,710	3,460	23,700	2,870	2,090	2,470	2,340	4,630	1,630
26	8,070	3,600	4,940	37,300	3,900	19,600	4,480	2,290	2,140	2,070	4,210	1,710
27	5,550	3,300	8,660	20,600	4,910	16,600	7,750	2,330	1,760	1,720	3,070	1,520
28	6,740	2,960	10,700	14,500	5,440	13,800	7,880	2,190	1,760	1,490	2,280	1,520
29	18,200	2,850	9,130	11,100	---	17,100	5,920	1,850	1,880	1,490	1,870	1,190
30	12,400	3,090	7,240	8,620	---	20,700	4,980	1,790	1,870	1,310	1,820	1,260
31	9,420	---	6,530	7,650	---	32,400	---	2,080	---	1,480	1,770	---
<b>Total</b>	111,080	129,030	192,640	227,060	113,180	433,600	229,750	95,940	73,160	52,720	69,350	47,620
<b>Mean</b>	3,583	4,301	6,214	7,325	4,042	13,990	7,658	3,095	2,439	1,701	2,237	1,587
<b>Max</b>	18,200	7,690	10,700	37,300	6,800	32,400	27,800	4,510	5,480	2,620	7,390	1,840
<b>Min</b>	1,470	2,410	3,470	3,450	2,480	3,920	2,620	1,790	1,760	1,310	1,520	1,190

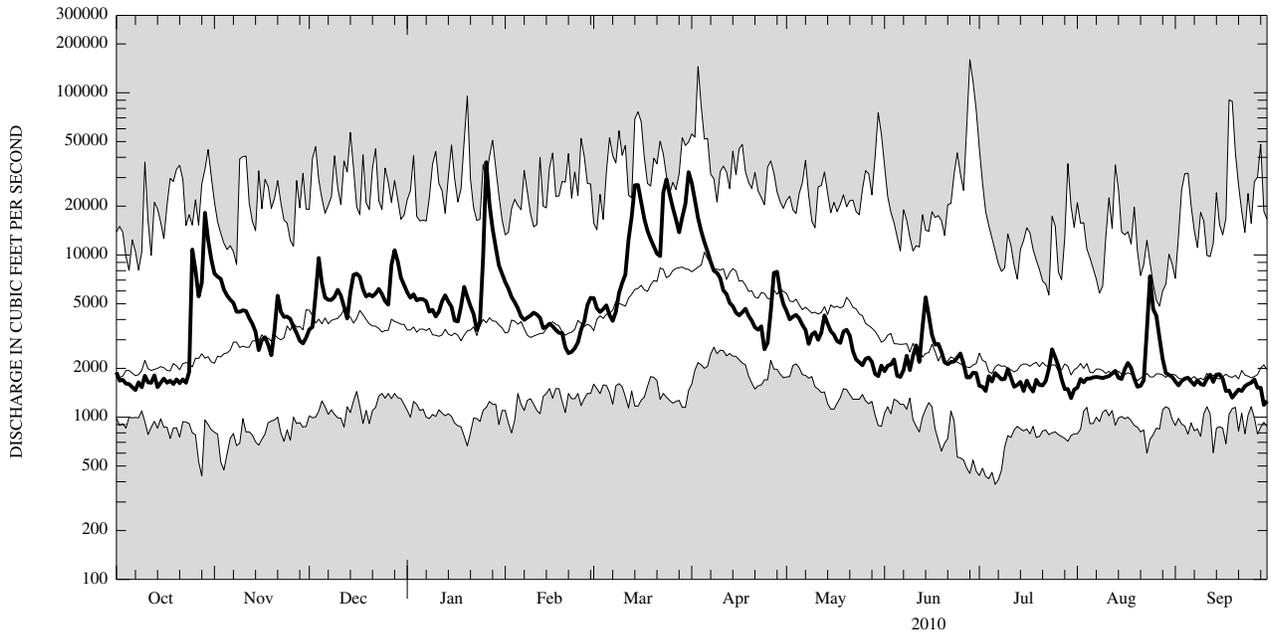
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3,402	4,435	5,635	5,374	5,171	8,396	9,434	5,806	4,298	2,779	2,505	2,849
<b>Max</b>	10,440	11,750	17,280	13,990	13,730	20,130	23,650	12,670	18,220	6,898	8,725	15,120
<b>(WY)</b>	(1978)	(2004)	(1997)	(2006)	(1976)	(2008)	(1993)	(1984)	(2006)	(2006)	(2009)	(2004)
<b>Min</b>	1,001	884	1,475	1,216	1,601	2,583	2,954	1,890	993	699	963	1,144
<b>(WY)</b>	(1965)	(1965)	(1999)	(1981)	(1980)	(1981)	(1985)	(1995)	(1965)	(1965)	(1965)	(1965)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010	
<b>Annual total</b>	2,042,150		1,775,130			
<b>Annual mean</b>	5,595		4,863		5,003	
<b>Highest annual mean</b>					7,820	2004
<b>Lowest annual mean</b>					2,028	1965
<b>Highest daily mean</b>	29,100	Mar 10	37,300	Jan 26	160,000	Jun 28, 2006
<b>Lowest daily mean</b>	1,470	Oct 7	1,190	Sep 29	385	Jul 6, 1965
<b>Annual seven-day minimum</b>	1,580	Oct 3	1,440	Sep 17	432	Jul 1, 1965
<b>10 percent exceeds</b>	9,990		9,480		10,700	
<b>50 percent exceeds</b>	4,560		3,450		3,000	
<b>90 percent exceeds</b>	2,030		1,600		1,530	



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.