

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 mi².

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 Lake Wallenpaupack and by 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 mi² of drainage area controlled by Pepacton Reservoir (01416900), and subsequent to October 1963, entire flow from 454 mi² 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 ft³/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 ft³/s, on basis of slope-area measurement of peak flow; maximum discharge since current degree of regulation, 189,000 ft³/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 ft³/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 ft³/s, Oct. 10, 1903, gage height, 23.1 ft, from rating curve extended above 70,000 ft³/s, by velocity-area studies; maximum gage height, 25.5 ft, Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 189,000 ft³/s, Jun 28, gage height, 21.47 ft, outside gage height was 22.16 ft, from crest-stage gage; minimum discharge, 1,010 ft³/s, Aug 12, gage height, 2.22 ft.

01434000 DELAWARE RIVER AT PORT JERVIS, NY—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,560	6,360	19,100	9,410	13,100	3,320	2,030	5,780	6,530	35,000	2,560	6,440
2	1,620	5,800	12,300	7,870	12,000	3,060	1,950	5,080	5,920	24,400	2,310	5,730
3	1,640	5,830	9,890	8,160	12,500	2,740	2,170	4,520	4,730	18,300	2,300	4,610
4	1,640	5,060	8,180	8,060	18,500	2,790	2,460	4,030	7,040	15,100	2,130	3,610
5	1,640	4,380	7,290	6,900	20,200	2,160	2,850	3,610	7,180	12,700	1,890	3,250
6	1,640	3,970	6,560	7,010	19,000	2,650	2,910	3,010	6,450	10,600	1,380	3,540
7	1,630	3,800	5,920	6,420	15,500	2,740	2,750	2,660	5,950	8,840	1,320	3,250
8	4,160	3,790	5,340	5,570	13,400	2,610	2,700	2,660	7,470	7,920	1,540	3,180
9	10,400	3,610	4,720	5,250	11,400	2,520	3,020	2,880	7,420	7,230	1,550	2,910
10	7,880	4,400	3,740	5,070	9,990	2,640	2,880	2,750	6,410	6,640	1,430	2,730
11	4,440	5,490	3,730	5,110	9,020	2,760	2,710	3,370	6,490	5,630	1,300	2,450
12	6,530	4,640	3,840	7,690	8,100	2,490	2,650	4,710	6,650	4,780	1,400	2,400
13	21,100	3,770	3,620	10,500	7,340	2,690	2,570	5,460	6,570	4,640	1,200	2,280
14	19,200	3,350	2,920	14,800	6,890	3,880	2,620	5,900	6,130	4,670	1,320	2,190
15	15,900	3,500	2,850	32,200	6,500	4,920	2,780	5,470	5,910	3,920	1,440	6,910
16	12,600	4,240	3,760	21,500	6,190	4,370	3,240	6,010	6,040	3,800	1,650	12,300
17	8,880	8,580	5,270	16,500	6,240	4,150	2,920	6,870	5,090	3,680	1,510	8,520
18	7,170	9,400	5,240	25,500	6,030	4,030	2,690	6,940	4,350	3,370	1,580	6,590
19	5,790	7,000	4,290	50,300	5,270	3,470	2,350	6,580	4,020	3,030	1,540	5,580
20	4,800	5,700	3,820	34,000	4,370	3,470	2,270	6,630	3,820	2,820	1,430	5,230
21	4,560	5,090	3,850	24,700	4,350	3,490	2,030	5,940	3,510	2,700	2,720	4,800
22	4,320	5,570	3,580	19,500	4,030	3,160	2,150	5,480	3,180	2,570	2,230	4,260
23	10,000	5,850	3,490	16,300	4,060	2,950	7,710	5,350	3,040	2,780	1,590	3,830
24	13,200	5,390	3,490	14,300	4,190	2,650	16,600	5,010	2,450	2,590	1,450	4,140
25	13,000	5,000	3,330	12,600	3,830	2,510	15,600	4,610	2,630	2,630	1,400	4,150
26	21,900	4,460	5,690	11,300	3,300	2,470	12,600	4,590	15,700	2,510	1,690	3,850
27	15,300	3,610	8,190	10,000	3,290	2,560	10,800	4,540	61,500	2,320	1,840	3,560
28	11,200	3,370	7,130	9,200	3,310	2,640	8,830	4,560	160,000	2,240	2,260	3,470
29	9,040	3,480	6,520	8,790	---	2,540	7,500	3,840	117,000	2,170	3,670	7,240
30	7,730	14,800	12,200	8,760	---	2,330	6,640	3,300	57,500	2,020	10,100	9,450
31	7,080	---	12,000	10,300	---	2,210	---	4,940	---	2,240	8,790	---
Total	257,550	159,290	191,850	433,570	241,900	92,970	142,980	147,080	546,680	213,840	70,520	142,450
Mean	8,308	5,310	6,189	13,990	8,639	2,999	4,766	4,745	18,220	6,898	2,275	4,748
Max	21,900	14,800	19,100	50,300	20,200	4,920	16,600	6,940	160,000	35,000	10,100	12,300
Min	1,560	3,350	2,850	5,070	3,290	2,160	1,950	2,660	2,450	2,020	1,200	2,190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,341	4,259	5,459	5,141	5,062	7,925	9,466	6,007	4,348	2,777	2,388	2,944
Max	10,440	11,750	17,280	13,990	13,730	17,520	23,650	12,670	18,220	6,898	7,617	15,120
(WY)	(1978)	(2004)	(1997)	(2006)	(1976)	(1977)	(1993)	(1984)	(2006)	(2006)	(2004)	(2004)
Min	1,001	884	1,475	1,216	1,601	2,583	2,954	1,890	993	699	963	1,144
(WY)	(1965)	(1965)	(1999)	(1981)	(1980)	(1981)	(1985)	(1995)	(1965)	(1965)	(1965)	(1965)

01434000 DELAWARE RIVER AT PORT JERVIS, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1964 - 2006	
Annual total	2,312,490		2,640,680			
Annual mean	6,336		7,235		4,922	
Highest annual mean					7,820	2004
Lowest annual mean					2,028	1965
Highest daily mean	145,000	Apr 3	160,000	Jun 28	160,000	Jun 28, 2006
Lowest daily mean	1,190	Sep 28	1,200	Aug 13	385	Jul 6, 1965
Annual seven-day minimum	1,450	Aug 16	1,380	Aug 9	432	Jul 1, 1965
10 percent exceeds	10,800		13,000		10,500	
50 percent exceeds	3,840		4,540		2,940	
90 percent exceeds	1,570		2,170		1,520	

