

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.--Records good except those for estimated daily discharges, which are poor. 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, 53,200 ft³/s, Apr. 16, gage height, 11.16 ft; minimum discharge, 964 ft³/s, July 22, gage height, 2.11 ft.

01434000 DELAWARE RIVER AT PORT JERVIS, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7,240	10,900	6,550	4,470	4,450	e2,550	16,000	8,040	1,420	1,410	2,340	1,700
2	6,920	10,300	8,990	6,430	4,170	e2,590	14,900	7,180	1,600	1,480	e2,110	1,580
3	6,470	10,500	9,990	6,030	3,950	e4,120	13,500	6,670	1,520	1,450	e2,020	1,510
4	5,750	8,750	8,820	5,390	3,310	e3,980	12,500	5,540	1,980	1,400	2,150	1,450
5	5,380	7,810	7,840	5,150	2,940	e3,170	14,400	4,570	2,210	1,500	1,800	1,570
6	5,100	7,100	7,110	7,650	e2,830	e2,990	12,800	3,880	2,020	2,420	1,680	1,480
7	4,530	6,510	6,510	13,900	e2,740	e2,570	10,800	3,390	1,840	2,320	1,710	1,670
8	3,990	6,960	5,940	14,900	e2,960	e2,750	9,320	3,030	1,730	1,900	2,010	1,700
9	3,580	13,700	5,270	19,400	e2,940	3,570	8,390	2,820	1,630	1,930	2,650	1,750
10	3,240	11,800	5,050	14,300	e2,710	3,200	7,430	2,730	1,590	2,000	3,260	1,460
11	3,060	9,670	4,950	11,300	e2,150	3,130	6,780	3,230	1,480	1,960	3,640	1,820
12	3,020	8,690	4,700	9,430	e1,990	3,430	6,690	3,920	1,640	1,900	2,920	1,800
13	2,860	8,100	4,470	8,960	e1,780	3,890	8,490	3,390	1,710	1,810	2,330	2,290
14	2,700	7,900	4,600	9,140	e1,820	5,330	7,730	2,960	1,690	1,770	2,340	1,980
15	2,510	7,850	4,670	10,800	e2,300	15,200	9,760	2,770	1,550	1,400	2,180	1,530
16	2,410	7,230	4,400	17,100	e2,600	24,200	45,200	2,650	1,460	1,360	2,330	1,720
17	2,610	29,200	4,200	15,200	e3,790	14,000	41,000	2,800	1,620	1,560	2,020	1,780
18	4,610	26,400	3,990	12,400	e3,600	11,100	32,600	2,950	1,480	1,680	1,770	1,630
19	5,780	19,400	3,900	11,100	e3,440	9,160	28,000	2,330	1,490	1,550	1,770	1,480
20	5,630	15,700	3,750	10,100	e3,260	8,030	25,700	2,190	1,790	1,610	1,540	1,560
21	13,600	12,900	3,670	8,620	e3,240	7,060	21,600	2,170	4,130	1,610	2,020	1,460
22	10,400	10,800	3,610	7,440	e3,220	7,360	18,300	2,130	2,350	1,000	2,500	1,520
23	8,060	10,600	4,300	6,850	e3,130	13,100	16,600	1,930	1,700	1,520	2,280	1,590
24	6,680	13,200	5,720	6,180	e3,100	16,100	15,000	2,030	1,440	2,730	2,090	1,510
25	5,830	11,300	5,280	5,790	e3,150	19,400	12,400	1,870	1,580	2,670	1,960	1,500
26	5,240	10,000	5,010	5,430	e3,010	22,400	11,800	1,890	1,720	2,260	1,890	1,520
27	4,770	9,140	6,410	4,210	e2,770	25,200	10,900	1,680	1,720	2,050	1,910	1,720
28	11,000	8,430	6,090	4,150	e2,490	31,500	9,680	1,630	1,860	3,140	1,810	1,480
29	27,500	7,710	5,440	4,620	---	28,000	8,780	1,890	2,230	3,930	1,580	1,490
30	17,200	6,850	4,990	4,420	---	22,600	8,410	1,570	1,630	3,350	1,540	1,620
31	13,100	---	4,630	4,340	---	18,400	---	1,450	---	2,800	1,490	---
Total	210,770	335,400	170,850	275,200	83,840	340,080	465,460	97,280	53,810	61,470	65,640	48,870
Mean	6,799	11,180	5,511	8,877	2,994	10,970	15,520	3,138	1,794	1,983	2,117	1,629
Max	27,500	29,200	9,990	19,400	4,450	31,500	45,200	8,040	4,130	3,930	3,640	2,290
Min	2,410	6,510	3,610	4,150	1,780	2,550	6,690	1,450	1,420	1,000	1,490	1,450

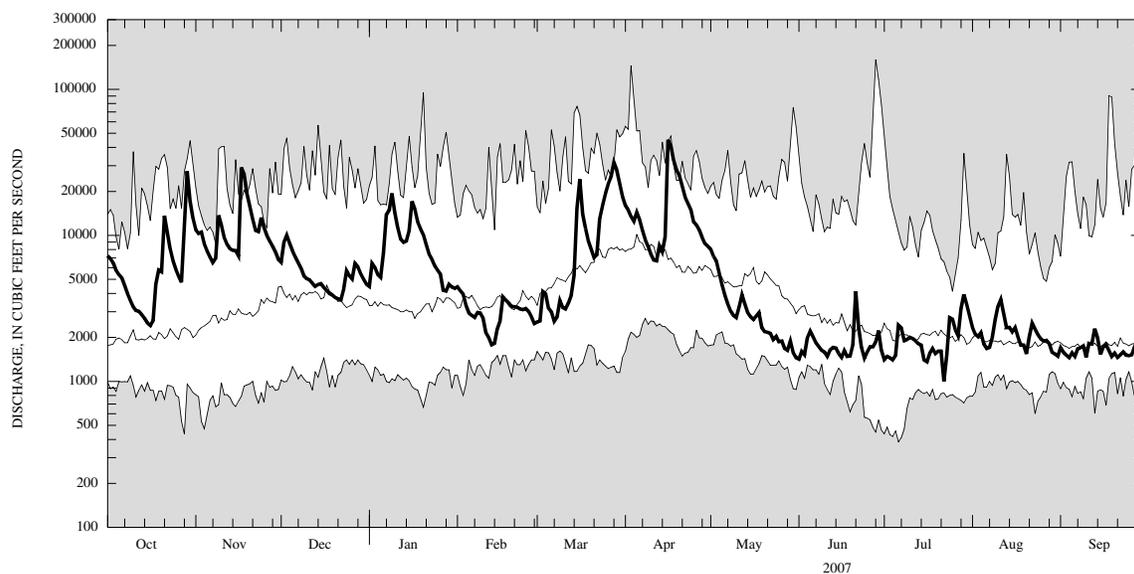
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,420	4,417	5,460	5,225	5,015	7,994	9,603	5,942	4,290	2,759	2,382	2,915
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 2006		Water Year 2007		Water Years 1964 - 2007	
Annual total	2,749,010		2,208,670			
Annual mean	7,532		6,051		4,948	
Highest annual mean					7,820	2004
Lowest annual mean					2,028	1965
Highest daily mean	160,000	Jun 28	45,200	Apr 16	160,000	Jun 28, 2006
Lowest daily mean	1,200	Aug 13	1,000	Jul 22	385	Jul 6, 1965
Annual seven-day minimum	1,380	Aug 9	1,480	Jul 16	432	Jul 1, 1965
10 percent exceeds	13,100		13,600		10,600	
50 percent exceeds	4,940		3,440		2,950	
90 percent exceeds	2,270		1,560		1,520	



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.