

01434000 DELAWARE RIVER AT PORT JERVIS, NY

Upper Delaware Basin
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 41°22'14", long 74°41'51" referenced to North American Datum of 1983, 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. Prior to Aug. 14, 1928, nonrecording gage at bridge 250 ft upstream at same 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 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 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, 35,800 ft³/s, Dec. 22, gage height, 9.13 ft; minimum discharge, 1,370 ft³/s, Sept. 27, 28, gage height, 2.47 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,260	9,660	2,220	4,510	18,500	4,080	3,760	3,300	8,530	12,400	2,130	2,780
2	2,970	7,980	1,970	3,960	11,000	3,420	4,380	3,180	7,670	15,300	2,100	2,920
3	3,020	6,400	2,020	4,000	8,330	2,860	4,240	2,730	6,010	14,400	2,160	3,980
4	3,120	5,440	2,220	3,680	7,200	2,590	3,740	2,380	5,340	11,100	2,040	5,820
5	3,300	5,110	2,170	3,800	5,880	2,560	3,460	2,360	4,800	8,910	2,060	3,800
6	3,340	4,920	2,160	3,760	5,910	2,550	3,210	2,250	4,310	6,450	1,760	3,050
7	3,020	4,610	2,080	4,080	5,310	2,600	3,110	2,070	4,680	5,220	1,640	2,830
8	2,820	4,260	2,150	3,910	5,090	2,750	3,110	2,190	5,240	4,870	1,620	2,430
9	2,570	4,010	2,710	3,800	4,800	2,590	3,060	4,100	4,750	4,550	3,060	2,470
10	2,450	3,540	3,140	3,460	e4,220	2,460	3,260	4,220	4,690	4,250	12,100	2,480
11	2,190	3,060	3,770	3,760	4,490	3,060	4,570	3,530	11,500	3,880	6,750	2,670
12	2,260	3,040	4,570	3,580	4,620	4,710	6,180	4,830	13,000	3,400	4,240	2,960
13	2,040	3,410	4,200	3,920	4,490	19,500	7,110	5,210	12,200	3,270	3,450	3,400
14	1,900	4,970	3,890	5,850	4,390	13,500	6,350	4,720	28,400	2,830	3,320	3,210
15	1,820	4,600	3,390	8,560	4,320	9,490	5,290	4,010	26,200	3,200	3,100	2,800
16	1,920	4,000	2,970	8,140	3,920	7,710	4,670	3,540	19,300	3,100	2,650	2,490
17	1,920	3,610	3,140	7,120	3,710	6,700	4,580	3,190	15,200	2,960	2,380	2,110
18	1,970	3,170	4,570	6,640	3,610	6,340	4,660	2,920	12,200	3,140	2,320	1,910
19	5,140	3,170	7,600	5,980	2,790	6,380	4,340	2,460	9,930	3,130	2,370	1,780
20	18,100	3,540	6,800	e5,370	2,960	5,630	6,270	2,580	8,430	2,930	2,100	1,660
21	10,600	3,250	17,100	e4,710	2,780	5,350	7,950	2,780	7,040	2,220	2,170	1,770
22	7,280	2,890	30,500	e4,220	2,480	5,720	6,180	2,550	5,650	2,090	2,350	2,090
23	6,010	2,610	18,100	e3,760	2,510	5,480	5,340	2,560	4,440	2,260	2,090	1,800
24	6,150	2,470	12,600	e3,120	2,250	4,850	5,220	3,900	4,050	2,550	2,110	1,950
25	6,990	2,420	10,200	e3,180	2,380	4,730	4,610	4,270	3,790	2,470	2,100	1,920
26	7,220	2,550	8,800	e3,250	2,450	4,290	4,220	4,390	3,560	1,940	1,920	1,770
27	7,360	2,800	7,540	e3,350	2,660	4,030	3,900	4,050	3,500	1,750	2,240	1,640
28	7,220	2,690	6,720	3,390	3,530	3,800	3,370	3,760	16,200	2,000	3,110	1,380
29	6,440	2,620	6,000	3,560	---	3,800	3,330	4,250	18,000	2,210	3,020	1,450
30	6,440	2,430	5,570	4,010	---	3,690	3,290	5,360	11,300	2,410	3,430	2,060
31	10,600	---	4,850	14,300	---	3,540	---	7,630	---	2,010	3,270	---
Total	151,440	119,230	195,720	148,730	136,580	160,760	136,760	111,270	289,910	143,200	91,160	75,380
Mean	4,885	3,974	6,314	4,798	4,878	5,186	4,559	3,589	9,664	4,619	2,941	2,513
Max	18,100	9,660	30,500	14,300	18,500	19,500	7,950	7,630	28,400	15,300	12,100	5,820
Min	1,820	2,420	1,970	3,120	2,250	2,460	3,060	2,070	3,500	1,750	1,620	1,380

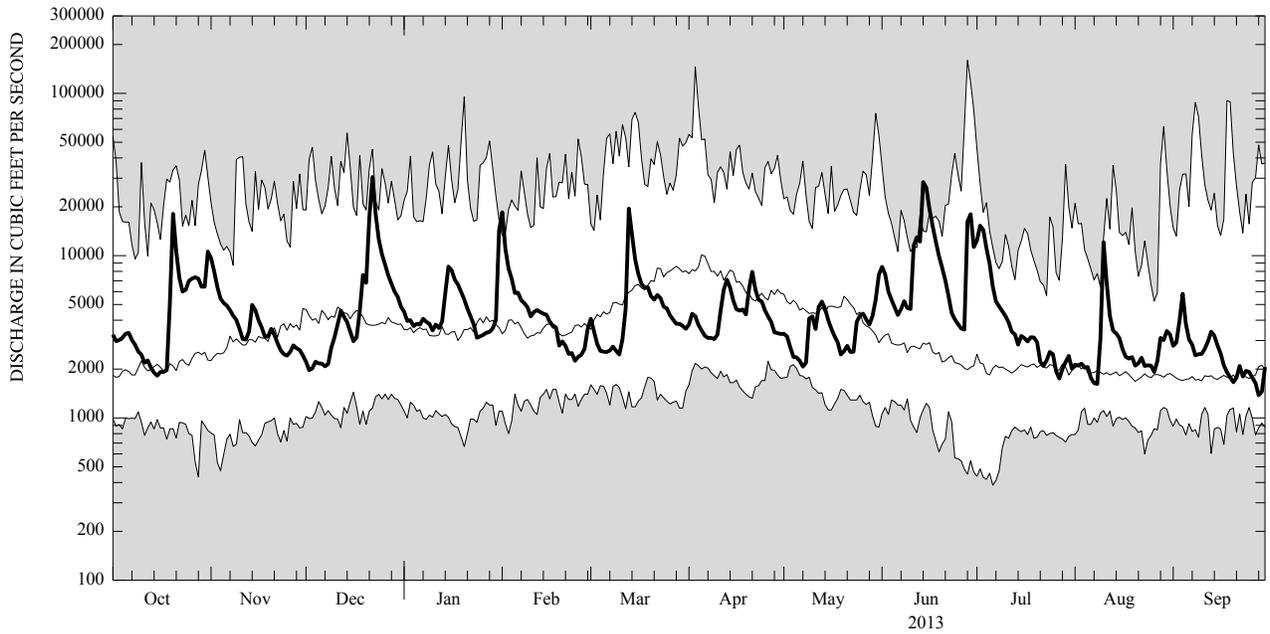
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,656	4,464	5,784	5,329	5,114	8,486	9,319	5,924	4,435	2,852	2,633	3,227
Max	10,440	11,750	17,280	13,990	13,730	20,420	23,650	12,670	18,220	6,898	9,275	21,840
(WY)	(1978)	(2004)	(1997)	(2006)	(1976)	(2011)	(1993)	(1984)	(2006)	(2006)	(2011)	(2011)
Min	1,001	884	1,475	1,216	1,601	2,583	2,819	1,890	993	699	963	1,144
(WY)	(1965)	(1965)	(1999)	(1981)	(1980)	(1981)	(2012)	(1995)	(1965)	(1965)	(1965)	(1965)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1964 - 2013	
Annual total	1,530,740		1,760,140			
Annual mean	4,182		4,822		5,099	
Highest annual mean					9,901	
Lowest annual mean					2,028	
Highest daily mean	35,500	May 16	30,500	Dec 22	160,000	Jun 28, 2006
Lowest daily mean	1,290	Sep 16	1,380	Sep 28	385	Jul 6, 1965
Annual seven-day minimum	1,470	Aug 21	1,700	Sep 23	432	Jul 1, 1965
10 percent exceeds	7,410		8,470		10,800	
50 percent exceeds	3,180		3,680		3,070	
90 percent exceeds	1,650		2,100		1,540	



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.