

DELAWARE RIVER BASIN

01446500 DELAWARE RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'35", long 75°04'58", revised, Warren County, Hydrologic Unit 02040105, on left bank at Belvidere, 800 ft downstream from Pequest River, and at river mile 197.7.

DRAINAGE AREA.--4,535 mi².

PERIOD OF RECORD.--October 1922 to current year.

REVISED RECORDS.--WSP 781: 1933(M). WSP 951: 1940-41, Drainage area. WSP 1432: 1923, 1924(M).

GAGE.--Water-stage recorder. Datum of gage 226.43 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1929, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Records good. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by lakes Wallenpaupack (station 01431700) and Cliff, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, and Neversink Reservoirs and smaller reservoirs. Diversions from Pepacton, Cannonsville, and Neversink Reservoirs. Satellite telemetry and National Weather Service gage-height telephone telemetry at station. Information on the above lakes and reservoirs can be found in the annual Water-Data Report NJ-03-1.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 10, 1903, reached a stage of 28.6 ft, from floodmark, discharge, 220,000 ft³/s, from rating curve extended above 170,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,930	5,300	7,210	9,390	5,040	8,040	26,100	7,710	11,500	9,070	3,890	3,290
2	2,210	4,940	6,960	18,800	4,800	7,430	22,900	7,260	27,400	8,200	3,920	4,200
3	1,840	4,770	6,920	27,600	4,680	7,940	21,100	8,000	23,500	7,530	4,530	26,700
4	1,790	4,540	6,140	21,700	5,020	7,750	19,900	11,400	20,100	6,620	7,370	25,500
5	1,980	4,110	5,590	17,700	5,310	8,150	18,900	10,900	18,400	5,770	10,800	41,300
6	2,420	4,320	5,390	15,400	5,370	8,140	18,800	9,650	16,500	5,530	12,700	27,800
7	2,340	5,120	5,330	13,900	6,290	7,470	17,900	8,800	15,200	5,420	11,900	19,600
8	2,190	5,780	4,630	12,600	5,690	7,380	17,400	8,160	18,300	5,080	10,300	14,800
9	2,240	5,560	4,350	11,900	5,240	6,980	16,500	7,550	17,100	4,850	8,900	12,200
10	2,100	4,840	4,020	11,800	5,060	6,820	15,800	7,030	14,300	4,550	11,900	9,770
11	3,900	4,370	4,390	10,700	4,880	6,660	15,400	6,260	12,400	4,440	11,400	8,630
12	13,100	4,440	6,740	9,470	4,560	6,480	16,100	5,850	12,400	4,490	14,800	7,490
13	18,000	5,220	7,700	8,680	4,190	6,340	16,000	6,610	17,100	5,530	17,300	6,570
14	14,900	7,190	9,920	7,720	4,030	6,500	14,600	7,230	17,200	4,220	13,800	5,760
15	10,200	7,150	13,700	7,050	4,280	6,440	13,400	6,870	21,000	3,830	12,100	7,180
16	8,830	6,650	14,000	6,400	3,660	6,820	12,200	6,510	18,700	3,840	10,600	12,200
17	17,600	10,400	12,600	6,450	2,920	9,850	11,300	6,080	15,400	3,450	9,210	15,600
18	26,200	21,200	10,400	5,100	3,140	18,600	10,300	5,750	13,400	3,530	7,210	12,200
19	16,800	22,400	9,080	5,250	4,130	31,500	9,650	5,230	12,400	3,700	6,710	10,900
20	12,400	17,700	10,000	5,160	4,640	34,300	8,560	4,920	12,200	3,360	6,050	11,000
21	9,870	15,100	14,700	5,110	4,750	47,800	7,910	4,910	18,400	3,030	5,460	9,780
22	8,150	13,900	17,300	4,760	5,180	67,500	7,930	4,750	38,400	4,340	5,050	8,280
23	6,900	14,500	14,200	4,550	8,010	64,600	8,100	4,590	40,900	5,330	4,660	13,100
24	5,950	15,000	12,900	4,910	9,490	50,700	7,880	4,610	31,100	7,060	3,950	32,900
25	5,130	13,300	11,800	4,980	10,100	37,700	7,320	4,450	22,600	6,520	3,350	27,000
26	5,950	11,700	11,200	5,180	9,450	31,600	7,010	5,910	17,800	5,340	3,310	20,100
27	7,740	10,600	10,700	5,260	8,750	29,300	6,650	8,940	14,900	4,340	3,650	16,700
28	8,560	9,850	10,600	4,500	8,430	25,400	9,740	8,930	13,100	4,170	3,430	16,500
29	7,090	8,580	9,700	4,730	---	22,400	9,350	8,400	11,100	4,400	3,310	22,100
30	6,240	7,720	9,420	5,150	---	27,000	8,460	7,610	9,880	4,300	3,000	21,900
31	5,770	---	8,420	5,100	---	30,800	---	6,920	---	3,970	3,400	---
TOTAL	241,320	276,250	286,010	287,000	157,090	644,390	403,160	217,790	552,680	155,810	237,960	471,050
MEAN	7,785	9,208	9,226	9,258	5,610	20,790	13,440	7,025	18,420	5,026	7,676	15,700
MAX	26,200	22,400	17,300	27,600	10,100	67,500	26,100	11,400	40,900	9,070	17,300	41,300
MIN	1,790	4,110	4,020	4,500	2,920	6,340	6,650	4,450	9,880	3,030	3,000	3,290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2003, BY WATER YEAR (WY)

MEAN	4,606	7,069	8,361	7,965	8,270	13,950	15,710	9,875	6,186	4,303	3,664	3,886
MAX	19,570	21,140	27,730	21,020	19,930	42,520	40,720	21,470	22,280	16,840	19,260	15,700
(WY)	(1956)	(1928)	(1997)	(1996)	(1976)	(1936)	(1940)	(1989)	(1972)	(1928)	(1955)	(2003)
MIN	1,055	1,226	1,481	1,683	2,452	5,243	4,512	3,261	1,590	1,017	881	1,199
(WY)	(1942)	(1965)	(1923)	(1981)	(1980)	(1981)	(1985)	(1965)	(1965)	(1965)	(1954)	(1941)

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01446500 DELAWARE RIVER AT BELVIDERE, NJ--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1923 - 2003	
ANNUAL TOTAL	2,316,070		3,930,510		7,813	
ANNUAL MEAN	6,345		10,770		14,130	
HIGHEST ANNUAL MEAN					2,990	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	29,900	May 15	67,500	Mar 22	184,000	Aug 19, 1955
LOWEST DAILY MEAN	1,230	Jan 21	1,790	Oct 4	610	Aug 25, 1954
ANNUAL SEVEN-DAY MINIMUM	1,410	Jan 17	2,110	Oct 2	782	Aug 14, 1954
MAXIMUM PEAK FLOW			69,600	Mar 22	273,000a	Aug 19, 1955
MAXIMUM PEAK STAGE			14.85	Mar 22	30.21b	Aug 19, 1955
INSTANTANEOUS LOW FLOW			1,650	Oct 4	609	Sep 28, 1943
10 PERCENT EXCEEDS	13,800		20,500		16,600	
50 PERCENT EXCEEDS	4,710		7,940		5,000	
90 PERCENT EXCEEDS	1,940		4,120		1,950	

a From rating curve extended above 170,000 ft³/s on basis of flood-routing study.
 b From high-water mark in gage house.

