

## DELAWARE RIVER BASIN

## 01446500 DELAWARE RIVER AT BELVIDERE, NJ

**LOCATION.**--Lat 40°49'34", long 75°04'57", 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 mi<sup>2</sup>.

**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 NGVD 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 and Cliff, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, and Neversink Reservoirs and smaller reservoirs. Diversions from Pepacton, Cannonsville, and Neversink Reservoir. Information on the above lakes and reservoirs can be found in the annual Water-Data Report NJ-04-1. U. S. Geological Survey satellite gage-height telemetry and National Weather Service telephone gage-height telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Oct. 10, 1903, reached a stage of 28.6 ft, from floodmark, discharge, 220,000 ft<sup>3</sup>/s, from rating curve extended above 170,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,700	37,200	23,800	17,100	4,420	3,570	11,000	10,400	6,760	2,410	7,540	10,700
2	15,200	27,500	20,400	15,600	4,030	4,060	12,200	9,400	7,130	2,530	7,030	9,910
3	13,100	22,500	17,800	14,300	4,010	5,570	13,100	10,100	7,500	2,340	7,380	7,850
4	11,500	19,800	15,600	14,500	4,470	9,310	11,600	14,500	7,520	2,240	6,440	6,460
5	10,400	17,500	14,400	19,900	4,540	13,300	10,600	13,200	6,840	2,320	5,340	5,520
6	11,500	17,500	13,600	26,300	4,770	15,300	e10,200	12,200	6,140	2,320	4,990	4,610
7	10,400	17,500	13,000	21,800	5,880	22,700	e9,500	12,400	5,780	2,390	5,000	4,220
8	9,340	15,300	12,000	17,700	5,400	23,500	8,470	12,100	5,970	2,810	4,170	4,700
9	8,530	13,200	10,600	15,400	4,630	19,900	8,270	10,100	5,390	2,920	3,270	11,800
10	7,850	11,700	10,000	12,100	4,560	16,700	7,960	9,800	5,160	2,750	2,980	18,200
11	7,300	11,100	18,900	9,180	4,890	14,600	7,020	12,500	5,060	2,560	3,210	17,800
12	6,700	10,800	53,600	9,890	4,620	13,100	6,350	13,600	4,390	2,570	3,380	13,600
13	6,200	10,900	48,200	11,400	4,430	12,000	7,760	14,900	3,880	3,030	26,600	10,600
14	6,060	10,700	33,800	10,700	4,400	10,400	12,700	14,900	3,210	3,070	44,000	9,170
15	8,490	9,470	27,300	9,350	4,150	9,210	16,700	13,400	3,100	3,990	25,400	8,130
16	14,000	9,120	23,400	7,180	3,460	9,350	15,100	11,400	3,240	4,010	17,100	7,390
17	13,400	8,710	21,500	7,150	3,290	9,310	13,100	10,500	3,050	4,480	18,600	6,950
18	11,100	7,970	23,500	7,960	3,730	8,480	11,400	9,930	3,500	3,950	16,900	54,700
19	9,530	8,430	23,000	8,030	3,740	8,130	10,000	9,390	4,070	4,140	13,900	167,000
20	8,800	19,600	19,500	7,790	3,650	7,780	9,430	8,980	3,650	4,320	11,900	84,700
21	9,230	40,700	17,500	7,150	3,790	7,800	8,910	8,040	3,100	4,530	16,800	47,900
22	8,890	32,600	15,700	6,380	3,950	8,520	8,470	7,270	2,740	3,850	19,700	32,700
23	8,400	25,300	14,400	6,020	3,480	8,660	7,940	6,170	3,020	3,570	15,900	23,600
24	7,810	20,900	18,900	5,090	3,550	7,920	8,590	5,390	2,740	4,250	12,500	18,600
25	7,430	18,800	45,100	4,980	3,580	7,720	8,890	5,830	2,690	5,750	10,100	16,400
26	6,430	17,500	49,400	4,790	3,410	8,600	8,870	5,840	2,670	4,980	8,810	13,200
27	8,920	15,500	36,200	4,720	3,420	8,760	13,200	7,440	2,550	4,220	7,880	11,300
28	30,300	14,300	28,200	4,500	3,440	9,480	15,300	8,400	2,580	7,450	7,460	14,300
29	47,000	22,900	23,200	4,620	3,440	11,300	12,800	8,640	2,730	15,900	6,900	30,100
30	67,000	27,800	20,100	4,640	---	11,000	11,400	8,140	2,510	12,900	6,300	29,800
31	53,300	---	18,300	4,430	---	11,000	---	7,180	---	9,560	9,070	---
TOTAL	461,810	542,800	730,900	320,650	119,130	337,030	316,830	312,040	128,670	138,110	356,550	701,910
MEAN	14,900	18,090	23,580	10,340	4,108	10,870	10,560	10,070	4,289	4,455	11,500	23,400
MAX	67,000	40,700	53,600	26,300	5,880	23,500	16,700	14,900	7,520	15,900	44,000	167,000
MIN	6,060	7,970	10,000	4,430	3,290	3,570	6,350	5,390	2,510	2,240	2,980	4,220

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

MEAN	4,732	7,203	8,547	7,994	8,218	13,910	15,650	9,877	6,163	4,305	3,760	4,124
MAX	19,570	21,140	27,730	21,020	19,930	42,520	40,720	21,470	22,280	16,840	19,260	23,400
(WY)	(1956)	(1928)	(1997)	(1996)	(1976)	(1936)	(1940)	(1989)	(1972)	(1928)	(1955)	(2004)
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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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL TOTAL	4,862,440		4,466,430		7,866	
ANNUAL MEAN	13,320		12,200		14,130	
HIGHEST ANNUAL MEAN					1928	
LOWEST ANNUAL MEAN					2,990	
HIGHEST DAILY MEAN	67,500	Mar 22	167,000	Sep 19	184,000	Aug 19, 1955
LOWEST DAILY MEAN	2,920	Feb 17	2,240	Jul 4	610	Aug 25, 1954
ANNUAL SEVEN-DAY MINIMUM	3,340	Aug 26	2,360	Jul 1	782	Aug 14, 1954
MAXIMUM PEAK FLOW			184,000	Sep 19	273,000a	Aug 19, 1955
MAXIMUM PEAK STAGE			24.80	Sep 19	30.21b	Aug 19, 1955
INSTANTANEOUS LOW FLOW			2,100	Jul 3	609	Sep 28, 1943
10 PERCENT EXCEEDS	27,000		22,900		16,600	
50 PERCENT EXCEEDS	9,530		9,020		5,040	
90 PERCENT EXCEEDS	4,500		3,440		1,960	

a From rating curve extended above 170,000 ft<sup>3</sup>/s on basis of flood-routing study.

b From high-water mark in gage house.

c Estimated

