

## DELAWARE RIVER BASIN

## 01446500 DELAWARE RIVER AT BELVIDERE, NJ

**LOCATION.**--Lat 40°49'36", long 75°05'02", 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 sea level. 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 Reservoirs. Satellite telemetry and National Weather Service gage-height telemetry at station. Information on the above lakes and reservoirs can be found in the annual Water Data Report (NJ-01-1).

**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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3080	2250	3740	4870	4350	6810	30400	5210	5080	3480	2150	2090
2	2860	2220	3640	5000	4630	6210	23000	5050	6230	3490	2130	2170
3	2600	2230	3380	4530	4650	6080	20100	4910	8620	3230	2160	2210
4	2720	2260	2970	4650	4500	5850	18200	4790	10800	3590	2150	2120
5	2750	2270	2670	4620	4370	5760	18100	4510	9790	3140	2260	2070
6	2820	2350	2530	4730	3710	5870	19300	3970	8020	2480	2320	2110
7	3540	2250	2440	4830	5020	5800	20800	3380	6790	2670	2030	2080
8	4410	2180	2470	4460	4770	5810	22300	3300	5940	2870	2390	2450
9	3370	2170	2480	4500	4600	5800	26900	3260	5260	2800	2540	2220
10	2780	2580	2200	4270	4660	5880	35100	3180	4500	2760	2750	2130
11	2550	2970	2310	3970	5370	5290	46200	2920	4100	3220	2980	2190
12	2320	5240	2480	3680	5740	4970	38500	2800	4220	3150	2460	2120
13	2240	4610	2510	3580	6570	6410	32700	2670	4520	2940	2390	2070
14	2220	4000	2770	3640	6010	8190	29500	2590	4310	2670	2330	2160
15	2180	3790	3150	3570	6120	8750	24500	2350	3890	2440	2080	2180
16	2240	4140	3090	3490	6750	8560	20200	2190	3740	2130	1990	2270
17	2190	4200	11000	3490	7700	9000	19100	2150	7060	2270	1950	2080
18	2390	3780	59900	3490	6740	9400	17400	2310	9100	2420	2040	1960
19	3620	3450	39100	3580	5930	9370	15300	2400	7970	2360	2160	2010
20	7550	3230	23500	4070	6130	9900	13400	2540	5960	2310	2080	2040
21	5810	3100	18300	3830	6040	10400	11700	2580	5420	2190	1880	4120
22	4740	2970	15100	3030	6130	14200	9930	3350	5160	2230	1820	3650
23	4090	2860	12600	2990	5860	22900	9630	4480	5090	2080	1990	3050
24	3560	2620	10400	3040	5630	22800	9440	4650	5470	2140	2070	2240
25	3150	2290	9000	3320	5720	19900	8870	4480	4890	2400	2040	3580
26	3070	2410	7140	3080	6710	16900	7970	4220	4490	2800	2080	3490
27	2960	3450	7030	3340	7520	15200	7290	6070	4100	2510	1990	3690
28	2670	4290	6530	3220	7310	13100	6680	8710	3830	2460	1960	3400
29	2570	4200	5870	2720	---	12200	5690	8240	3710	2530	2020	2730
30	2400	3900	5730	3090	---	15800	5030	7400	3670	2270	1990	2240
31	2390	---	4640	3980	---	33500	---	6030	---	2090	2030	---
TOTAL	97840	94260	280670	118660	159240	336610	573230	126690	171730	82120	67210	74920
MEAN	3156	3142	9054	3828	5687	10860	19110	4087	5724	2649	2168	2497
MAX	7550	5240	59900	5000	7700	33500	46200	8710	10800	3590	2980	4120
MIN	2180	2170	2200	2720	3710	4970	5030	2150	3670	2080	1820	1960

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2001, BY WATER YEAR (WY)

	MEAN	4597	7108	8421	8025	8346	13970	15850	9867	5983	4314	3634	3757
MAX	19570	21140	27730	21020	19930	42520	40720	21470	22280	16840	19260	13940	
(WY)	1956	1928	1997	1996	1976	1936	1940	1989	1972	1928	1955	1938	
MIN	1055	1226	1481	1683	2452	5243	4512	3261	1590	1017	881	1199	
(WY)	1942	1965	1923	1981	1980	1981	1985	1965	1965	1965	1954	1941	

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1923 - 2001	
ANNUAL TOTAL	3110400		2183180		7814	
ANNUAL MEAN	8498		5981		14130	
HIGHEST ANNUAL MEAN					1928	
LOWEST ANNUAL MEAN					2990	
HIGHEST DAILY MEAN	59900	Dec 18	59900	Dec 18	184000	Aug 19 1955
LOWEST DAILY MEAN	2170	Nov 9	1820	Aug 22	610	Aug 25 1954
ANNUAL SEVEN-DAY MINIMUM	2240	Nov 3	1980	Aug 21	782	Aug 14 1954
MAXIMUM PEAK FLOW			73500	Dec 18	<b>a</b> 273000	Aug 19 1955
MAXIMUM PEAK STAGE			15.28	Dec 18	<b>b</b> 30.21	Aug 19 1955
INSTANTANEOUS LOW FLOW			1720	Aug 22	609	Sep 28 1943
10 PERCENT EXCEEDS	18100		11900		16600	
50 PERCENT EXCEEDS	5520		3650		5000	
90 PERCENT EXCEEDS	2670		2150		1950	

- 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.

