

## DELAWARE RIVER BASIN

01446500 DELAWARE RIVER AT BELVIDERE, NJ  
(Pennsylvania Water-Quality Network Station)

**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>.

## WATER-DISCHARGE RECORDS

**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 telemetry at station. Information on the above lakes and reservoirs can be found in the annual Water-Data Report NJ-02-1.

**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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	2070	2210	1700	7810	2870	11200	17300	11100	3640	2040	2330
2	2120	1920	2320	1590	7820	2870	10500	15800	11600	3720	2000	1820
3	2120	2030	2870	1490	8250	3330	9760	16600	9320	4200	2140	1950
4	2240	2010	2720	1740	6840	3940	8370	14800	8040	3960	2080	2030
5	2170	1940	2200	1820	5710	4270	8030	11500	7030	3470	2070	1970
6	2170	1950	1950	1860	4910	4180	7030	9980	7580	3310	2000	1910
7	2260	1960	1820	1880	4530	3630	6060	8980	19000	3010	2150	2060
8	2070	1850	1810	1600	4110	3450	5240	8010	28800	2780	2050	2030
9	2100	1840	2040	1650	3680	3260	5390	7460	18600	2620	1980	1900
10	2100	1780	2030	1540	3440	3300	5500	7260	13800	2770	1930	1870
11	2050	1810	1870	1790	3490	3450	5390	7060	12100	2820	1940	1980
12	2140	1770	1780	1900	7300	3670	5190	6200	10400	2680	1910	1900
13	2110	1730	1780	1880	8760	3600	4880	7820	9180	2420	1910	1940
14	2180	1720	2010	1780	6850	3390	4210	24200	8980	2280	1960	1970
15	2210	1720	2100	1730	5390	3300	6340	29900	11400	1950	2000	2150
16	2210	1720	2410	1790	4710	3320	8750	21500	12600	2020	2000	2690
17	2270	1730	2830	1660	4430	3240	9160	16200	13000	2290	2110	3020
18	2250	1740	3110	1600	4020	3570	8030	16400	11200	2200	2160	2480
19	2240	1700	4080	1440	3720	3740	7250	22300	9380	2390	2090	2170
20	2140	1720	6650	1240	3360	3840	6970	20900	8530	2410	2090	2150
21	2100	1700	5420	1230	3270	4930	6000	15900	7440	2450	2080	2020
22	2070	1710	4640	1240	3280	5220	5540	13300	6610	2420	2050	1850
23	2080	1730	3940	1470	3580	5760	5450	11200	5570	2360	2150	2000
24	2110	1750	3600	1820	3650	5380	5410	9810	5030	2880	2070	1370
25	2100	1830	3350	2030	3300	4930	5140	9300	5160	2720	2130	2060
26	2180	2200	3220	2150	3070	4990	5560	7700	5140	2670	2130	2170
27	2290	2120	3090	2430	3020	7310	6250	6720	5910	2350	2150	2250
28	2160	2240	2350	2940	2910	19000	6950	6440	5960	2110	1940	2890
29	2130	2090	2110	3000	---	15900	13500	13900	5400	2150	2060	4420
30	2100	1890	1940	3370	---	12900	20500	16200	4590	2130	2530	3920
31	2080	---	1630	3770	---	11600	---	12200	---	2210	2610	---
TOTAL	66490	55970	85880	59130	135210	168140	223550	412840	298450	83390	64510	67270
MEAN	2145	1866	2770	1907	4829	5424	7452	13320	9948	2690	2081	2242
MAX	2290	2240	6650	3770	8760	19000	20500	29900	28800	4200	2610	4420
MIN	1940	1700	1630	1230	2910	2870	4210	6200	4590	1950	1910	1370

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4567	7042	8351	7949	8303	13860	15740	9910	6033	4294	3614	3738
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

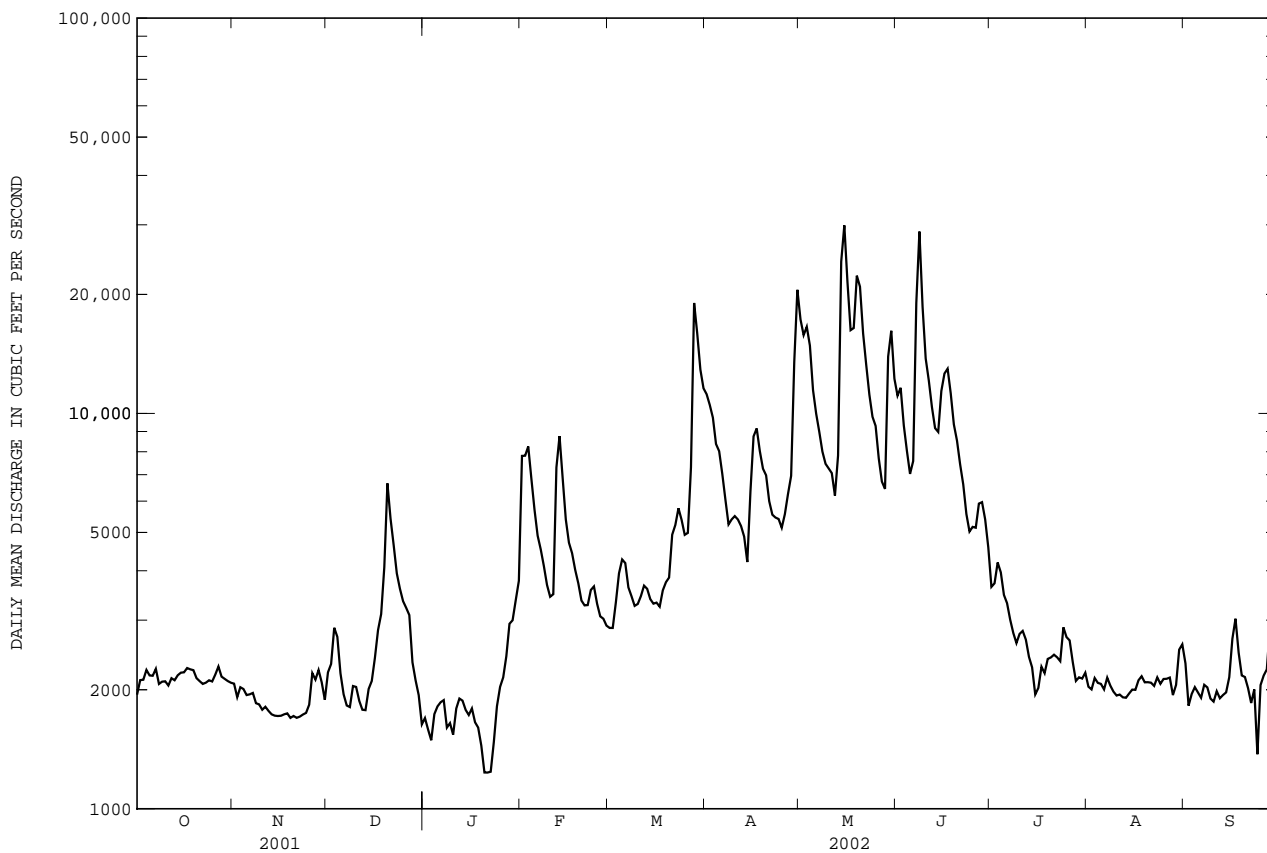
## DELAWARE RIVER BASIN

## 01446500 DELAWARE RIVER AT BELVIDERE, NJ--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1923 - 2002	
ANNUAL TOTAL	1918750		1720830		7776	
ANNUAL MEAN	5257		4715		14130	
HIGHEST ANNUAL MEAN					1928	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	46200	Apr 11	29900	May 15	184000	Aug 19 1955
LOWEST DAILY MEAN	1630	Dec 31	1230	Jan 21	610	Aug 25 1954
ANNUAL SEVEN-DAY MINIMUM	1720	Nov 16	1410	Jan 17	782	Aug 14 1954
MAXIMUM PEAK FLOW			34100	May 14	<b>a</b> 273000	Aug 19 1955
MAXIMUM PEAK STAGE			10.45	May 14	<b>b</b> 30.21	Aug 19 1955
INSTANTANEOUS LOW FLOW			1070	Jan 20	609	Sep 28 1943
10 PERCENT EXCEEDS	9690		10700		16500	
50 PERCENT EXCEEDS	3180		2720		4960	
90 PERCENT EXCEEDS	1960		1800		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.



## DELAWARE RIVER BASIN

01446500 DELAWARE RIVER AT BELVIDERE, NJ--Continued  
(Pennsylvania Water-Quality Network Station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 410-425.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 2002 25...	1300	9813	4870	40	10.8	7.7	123	12.7	36	10.4	2.5	24	10.1
JUN 20...	1240	9813	8840	40	10.1	7.8	106	20.8	32	9.3	2.1	22	8.0
AUG 19...	1050	9813	2120	40	8.5	8.5	132	32.2	38	10.9	2.6	26	9.8

Date	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)
APR 2002 25...	60	34	<.020	.17	<.040	.44	.01	.030	3.1	<10	140	<1.0	30
JUN 20...	76	12	<.020	.17	<.040	.36	.02	.030	4.0	<10	250	<1.0	40
AUG 19...	410	2	.040	.14	<.040	.40	.03	.024	2.7	<10	50	<1.0	30

Date	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)
APR 2002 25...	<50	<10
JUN 20...	<50	<10
AUG 19...	<50	<10