

## DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ  
(National Water-Quality Assessment Station)

**LOCATION.**--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, on right bank 1,500 ft upstream from toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

**DRAINAGE AREA.**--3,480 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--March 1936 to September 1939 (gage heights only, published as "at Milford, PA"). October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

**REVISED RECORDS.**--WDR-NJ-81-2: 1980.

**GAGE.**--Water-stage recorder. Datum of gage is 369.93 ft above sea level. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft lower.

**REMARKS.**--Records good except for estimated daily discharges, which are fair. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, Cliff Lake, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, and Neversink Reservoirs. Information on the above lakes and reservoirs can be found in the annual Water Data Report NJ-01-1. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	2440	1960	2900	4690	e2900	3810	19300	3700	2880	2280	1830	1950
2	2120	1930	2740	e4200	e3400	3680	15300	3490	3630	2030	1900	2000
3	2310	1980	2440	e3900	e3500	3480	13600	3430	6650	2650	1850	1850
4	2320	2010	2080	e3600	e2800	3350	13100	3300	7490	2330	1840	1790
5	2350	1980	1960	e3800	e2700	3390	13800	3020	6220	1590	1960	1860
6	2600	1900	2130	e3800	e2900	3520	15400	2330	5020	1900	1700	1820
7	4190	1800	e2100	e3300	e2800	3580	16300	2290	4310	2080	2040	2270
8	3190	1850	e2100	e3100	e2800	3580	19500	2300	3760	1680	2220	2010
9	2430	1900	e1900	e3100	e2700	3600	22400	2240	3250	1750	2410	1910
10	2140	1910	e1800	e3100	e2800	3440	34700	2060	2900	2280	2470	1890
11	1890	3940	1990	e2700	4150	2920	35800	1910	2630	2150	1970	1890
12	1800	4220	2180	e2500	e4700	2730	29400	1920	3240	2220	1850	1880
13	1760	3410	2170	e2600	e4000	3510	26000	1840	3190	2000	1830	1760
14	1780	3020	e2100	e2300	e3800	4540	23000	1680	2920	1830	1680	1850
15	1800	3300	2330	e2300	e4100	4740	18500	1520	2760	1530	1640	2020
16	1710	3520	2230	e2200	5110	4680	15700	1500	2800	1730	1650	1840
17	1690	3240	11600	e2300	5030	4880	14600	1630	4550	1890	1720	1760
18	2040	2950	46300	e2300	4570	4990	12700	1710	6310	1830	1870	1830
19	5950	2730	21400	e2400	4210	5390	11200	1870	4770	1840	1820	1790
20	5770	2620	14900	e2300	3930	5710	9730	1940	3760	1760	1640	1820
21	4390	2490	11800	e2100	4220	6610	8030	1890	3730	1830	1590	2420
22	3700	2430	10300	e2200	4210	10700	7210	2090	3290	1690	1770	2380
23	3210	2260	8830	e2100	e3700	16100	7010	2600	3180	1800	1780	1770
24	2770	1920	7770	e2400	3580	15200	6920	3090	3060	1970	1780	1450
25	2680	1800	6940	e2200	3640	12800	6090	2880	2860	1950	1840	1670
26	2600	2110	6080	e2400	4110	11100	5510	2590	2750	2000	1770	2220
27	2330	3070	5390	e2200	4510	9790	4990	3450	2690	2000	1700	2740
28	2240	3350	5290	e1900	4320	8680	4340	4740	2560	2080	1750	2000
29	2070	3080	5440	e1800	---	8210	3500	4880	2650	1890	1750	1580
30	2070	2920	4370	e2100	---	12100	3480	3980	2480	1750	1790	1340
31	1930	---	4020	e2200	---	25700	---	3220	---	1840	1820	---
TOTAL	82270	77600	205580	84090	105190	216510	437110	81090	112290	60150	57230	57360
MEAN	2654	2587	6632	2713	3757	6984	14570	2616	3743	1940	1846	1912
MAX	5950	4220	46300	4690	5110	25700	35800	4880	7490	2650	2470	2740
MIN	1690	1800	1800	1800	2700	2730	3480	1500	2480	1530	1590	1340

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	3301	5044	6152	5825	5955	9958	11910	7356	4430	3055	2590	2648
MEAN	3301	5044	6152	5825	5955	9958	11910	7356	4430	3055	2590	2648
MAX	15690	11760	18830	15600	15120	24480	31560	16090	15200	11220	14230	9167
(WY)	1956	1952	1997	1996	1976	1945	1940	1943	1972	1945	1955	1960
MIN	807	995	1665	1318	1748	3191	3322	2215	1214	864	715	892
(WY)	1942	1965	1999	1981	1980	1981	1985	1965	1965	1954	1954	1941

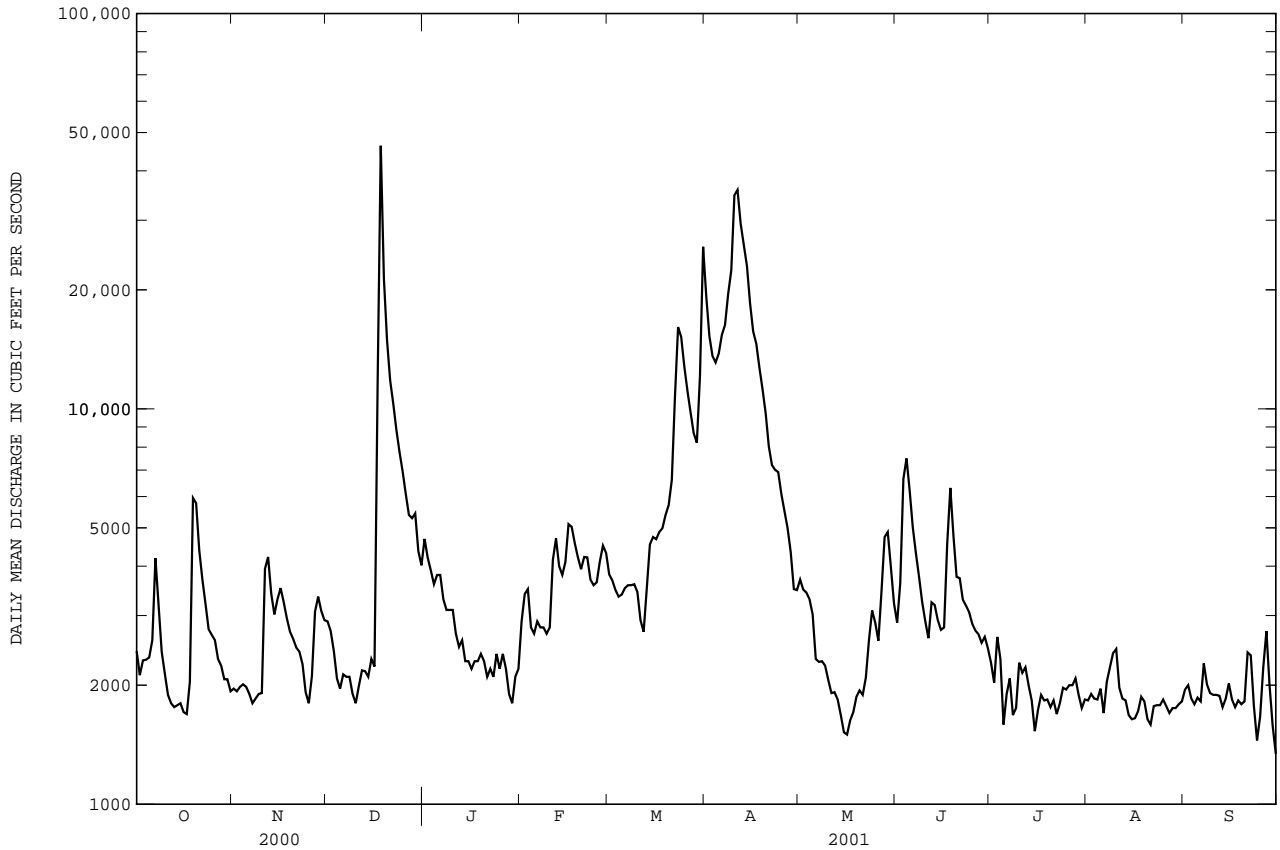
e Estimated.

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	2351440		1576470			
ANNUAL MEAN	6425		4319		5680	
HIGHEST ANNUAL MEAN					8621 1952	
LOWEST ANNUAL MEAN					2309 1965	
HIGHEST DAILY MEAN	46300	Dec 18	46300	Dec 18	187000	Aug 19 1955
LOWEST DAILY MEAN	1690	Oct 17	1340	Sep 30	412	Aug 23 1954
ANNUAL SEVEN-DAY MINIMUM	1780	Oct 11	1680	May 13	565	Jul 1 1965
MAXIMUM PEAK FLOW			58800	Dec 18	a250000	Aug 19 1955
MAXIMUM PEAK STAGE			17.08	Dec 18	35.15	Aug 19 1955
INSTANTANEOUS LOW FLOW			1140	Sep 30	382	Aug 24 1954
10 PERCENT EXCEEDS	13600		8400		12000	
50 PERCENT EXCEEDS	3960		2600		3410	
90 PERCENT EXCEEDS	2080		1780		1600	

a From rating curve extended above 90,000 ft<sup>3</sup>/s on basis of flood-routing study.



DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued  
(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-73, 1976-78, July 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total residue, Chlorophyll A, fecal coliform, E.coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.-- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARDE ANCE) (UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 08...	0915	1800	--	.053	.040	757	98	12.0	7.3	90	--	6.5	26
MAR 08...	1030	3610	--	.060	.045	755	96	13.4	7.4	111	8.0	1.5	25
MAY 10...	0930	1920	1.0	.072	.054	755	108	10.7	7.3	107	22.0	15.5	26
AUG 22...	1100	2090	1.3	.054	.041	758	80	6.9	7.4	100	30.0	22.5	25

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 08...	7.67	1.54	.81	5.8	18	8.8	<.2	.6	7.0	45	44	.050	.18
MAR 08...	7.71	1.47	.75	9.3	14	15.8	<.2	2.4	7.6	61	55	<.030	.14
MAY 10...	7.79	1.50	.88	8.8	16	15.9	<.2	1.5	7.7	70	55	<.030	.22
AUG 22...	7.27	1.64	.91	7.3	18	12.1	<.2	1.3	6.6	58	49	<.030	.22

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULATE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
NOV 08...	.04	.23	.115	<.003	.30	.34	.052	.004	.014	.3	<.1	1.9	.3
MAR 08...	<.03	.12	.272	<.003	.41	.40	.042	.006	.012	.3	<.1	2.0	.3
MAY 10...	<.03	.25	.305	<.003	.52	.55	.034	.008	.016	.4	M	2.5	E.4
AUG 22...	<.03	.26	.205	<.003	.42	.46	.088	.007	.017	.6	<.1	2.1	.6

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (µG/L) (32209)	BORON, DIS-SOLVED (µG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDEED (MG/L) (00530)
NOV 08...	E1.1	--	E10	12
MAR 08...	<1.0	--	<13	2
MAY 10...	E1.0	2.90	E8	<1
AUG 22...	<1.0	2.40	E8	4

## DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

**WATER-COLUMN BACTERIA ANALYSES**  
**Samples collected synoptically during the summer months**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/100 ML) (31649)
JUL					AUG				
05...	1035	20	<100	10	01...	1040	<20	<100	60
11...	1040	20	<100	210					
18...	1035	50	<100	30					
25...	1040	<20	<100	<10					