

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ

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 mi².

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 National Geodetic Vertical Datum of 1929. 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. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (station 01431700), 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-02-1. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	1620	1690	1520	1460	6800	2250	8570	12100	8150	2460	1740	1360
2	1650	1750	2090	1380	6670	2080	8150	10900	8260	3240	1820	1540
3	1820	1790	2290	1650	6350	2190	6820	12200	6190	3250	1770	1670
4	1760	1690	1710	1630	5000	2750	6240	9330	5510	2750	1750	1650
5	1760	1640	1470	1510	4360	3110	5810	7450	4980	2520	1720	1610
6	1930	1790	1350	1370	3750	2610	4890	6490	6520	2420	1900	1790
7	1730	1630	1260	1340	3320	2430	4100	5820	18400	2100	1800	1740
8	1700	1620	1430	1440	2950	2310	3820	5240	18800	1960	1720	1620
9	1860	1530	1320	1150	2680	2180	4030	5020	11700	2080	1670	1600
10	1730	1630	1270	1400	2490	2290	4060	5010	9260	2210	1680	1750
11	1820	1550	1180	1430	3340	2520	3940	4590	8590	2260	1640	1680
12	1800	1520	1240	1410	8320	2680	3790	3950	7010	1940	1630	1730
13	1870	1530	1400	1360	6450	2410	3290	6960	6430	1800	1680	1760
14	1740	1490	1260	1240	4960	2380	2810	23800	6330	1440	1740	1830
15	1730	1530	1580	1370	3950	2340	4250	20500	8790	1510	1740	1940
16	1850	1510	2010	1180	3710	2380	6480	14700	10000	1950	1830	2230
17	1870	1560	2110	1120	3310	2470	6050	11300	9320	1800	1930	2090
18	1880	1510	2240	1010	3070	2670	5420	11500	7770	1950	1840	1680
19	1770	1500	5160	1070	2740	2530	4960	17300	6710	1830	1730	1810
20	1740	1480	4750	951	2490	2600	4310	13500	5960	1940	1770	1730
21	1710	1500	3810	943	2470	3070	3680	10400	5220	1960	1770	1540
22	1720	1510	3270	1080	2710	3720	3390	8650	4500	1930	1820	1680
23	1750	1530	2720	1340	3000	3870	3790	7340	3680	1960	1700	1030
24	1750	1520	2460	1340	2710	3410	3600	6740	3780	2010	1670	1770
25	1860	1580	2370	1390	2440	3370	3500	6400	4060	2200	1720	2000
26	1980	1590	2360	1650	2330	3490	4230	4750	4000	1990	1810	1700
27	1890	1780	2000	2210	2320	8860	4540	4540	4320	1710	1590	1870
28	1830	1720	1930	2250	2280	14200	4350	4600	4130	1770	1490	3380
29	1840	1450	1920	2490	---	11200	12200	12100	3720	1810	1870	3700
30	1820	1470	1930	2740	---	9520	14200	10500	2650	1950	2120	2630
31	1830	---	1900	5260	---	9060	---	8020	---	1780	1920	---
TOTAL	55610	47590	65310	49164	106970	122950	159270	291700	214740	64480	54580	56110
MEAN	1794	1586	2107	1586	3820	3966	5309	9410	7158	2080	1761	1870
MAX	1980	1790	5160	5260	8320	14200	14200	23800	18800	3250	2120	3700
MIN	1620	1450	1180	943	2280	2080	2810	3950	2650	1440	1490	1030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

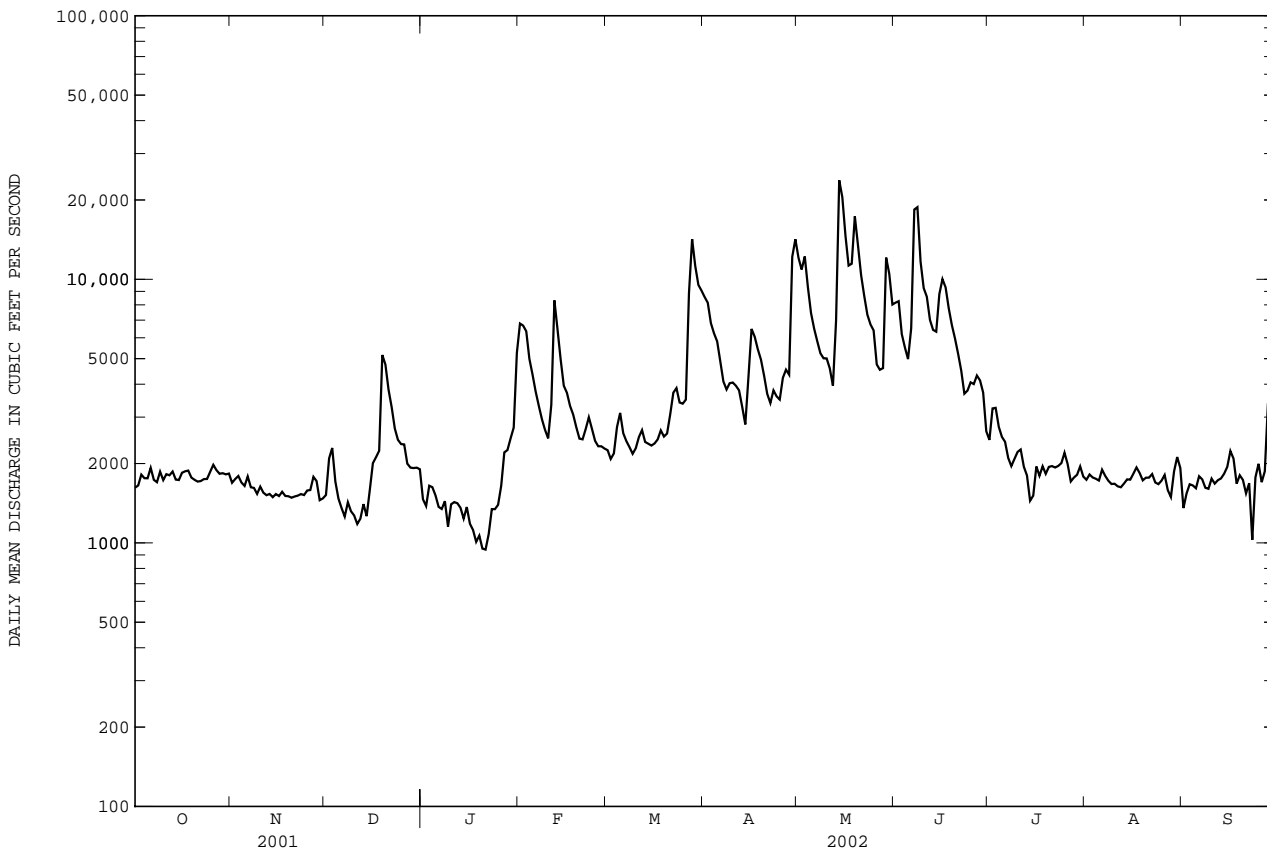
MEAN	3277	4989	6088	5758	5921	9863	11800	7388	4473	3040	2577	2636
MAX	15690	11760	18830	15600	15120	24480	31560	16090	15200	11220	14230	9167
(WY)	1956	1952	1997	1996	1976	1945	1940	1943	1972	1945	1955	1960
MIN	807	995	1665	1318	1748	3191	3322	2215	1214	864	715	892
(WY)	1942	1965	1999	1981	1980	1981	1985	1965	1965	1954	1954	1941

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	1379530		1288474		5646	
ANNUAL MEAN	3780		3530		8621	
HIGHEST ANNUAL MEAN					2309	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	35800	Apr 11	23800	May 14	187000	Aug 19 1955
LOWEST DAILY MEAN	1180	Dec 11	943	Jan 21	412	Aug 23 1954
ANNUAL SEVEN-DAY MINIMUM	1290	Dec 6	1050	Jan 16	565	Jul 1 1965
MAXIMUM PEAK FLOW			26300	May 14	^a 250000	Aug 19 1955
MAXIMUM PEAK STAGE			11.91	May 14	35.15	Aug 19 1955
INSTANTANEOUS LOW FLOW			776	Jan 21	382	Aug 24 1954
10 PERCENT EXCEEDS	6630		7870		12000	
50 PERCENT EXCEEDS	2200		2080		3400	
90 PERCENT EXCEEDS	1590		1470		1600	

a From rating curve extended above 90,000 ft³/s on basis of flood-routing study.



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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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

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

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 HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (MS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 15...	1030	1470	.6	.042	.032	758	100	12.4	7.4	96	16.0	6.0	26
FEB 20...	1030	2480	1.0	.050	.039	753	98	13.1	7.2	89	6.0	3.0	22
JUN 19...	1030	6630	2.8	.127	.097	760	89	8.3	7.3	81	26.0	18.5	20
AUG 07...	1100	2170	1.7	.061	.046	754	105	8.8	7.4	102	20.0	23.5	27
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 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 DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L AS N) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA+ ORGANIC DIS. (MG/L AS N) (00623)
NOV 15...	7.67	1.70	.85	6.52	20	11.5	<.1	.9	6.9	56	49	<.030	.13
FEB 20...	6.65	1.37	.69	6.12	12	10.9	<.1	2.4	8.2	52	45	<.030	.12
JUN 19...	6.13	1.20	.63	6.21	14	9.70	<.1	2.4	6.8	40	42	<.030	.18
AUG 07...	7.87	1.77	.85	7.69	19	12.6	<.1	1.2	7.5	71	51	<.030	.18
DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULATE SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. (MG/L AS C) (00694)	CARBON, INOR-GANIC, ORGANIC, DIS-SOLVED (MG/L AS C) (00688)	CARBON, ORGANIC, DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
NOV 15...	.030	.24	<.003	.36	.05	E.003	--	.006	.4	<.1	2.0	.4	<1.0
FEB 20...	<.030	.24	.004	.35	<.02	.006	<.020	.008	.3	<.1	1.8	.3	<1.0
JUN 19...	.040	.10	<.003	.28	.04	.013	<.020	.026	.5	<.1	3.6	.5	<1.0
AUG 07...	<.030	.16	<.003	.35	.06	.016	<.020	.023	.5	<.1	2.5	.5	<1.0

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

DATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (μ G/L) (32209)	BORON, DIS- SOLVED (μ G/L) AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEE (MG/L) (00530)
NOV 15...	--	E10	2
FEB 20...	--	E7	2
JUN 19...	1.80	E9	<1
AUG 07...	1.00	E9	1

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

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)
MAY 08...	1025	<20	<100	20	JUN 05...	1037	40	<10	<100
15...	1030	110	100	110					
22...	1015	20	<100	<10					
29...	1020	1300	500	890					