

## DELAWARE RIVER BASIN

## 01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

**LOCATION.**--Lat 40°35'36", long 75°11'17", Warren County, N.J., Hydrologic Unit 02040105, just upstream of suspension bridge at Riegelsville, NJ, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931). Water-quality samples are collected from the bridge and do not include flow of the Musconetcong River.

**DRAINAGE AREA.**--6,328 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

**REMARKS.**--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

**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 OF SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD 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)
DEC 05...	1030	4100	1.8	--	--	767	90	10.5	7.7	187	15.0	9.0	60
FEB 26...	1045	4470	1.1	.046	.035	755	91	11.0	7.8	176	10.0	7.0	52
MAY 21...	0945	23900	6.8	.123	.093	766	94	10.4	7.4	114	11.0	11.0	33
SEP 05...	1000	E3000	1.9	.059	.045	760	81	7.0	8.0	210	23.0	22.5	69
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 DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)
DEC 05...	15.4	5.18	1.36	11.4	39	17.0	.1	3.1	17.2	106	99	.030	.38
FEB 26...	13.5	4.55	1.15	11.2	35	16.5	<.1	2.6	16.6	86	91	<.030	.15
MAY 21...	8.69	2.70	.75	7.63	21	11.3	E.1	3.3	10.4	76	63	<.030	.21
SEP 05...	17.8	6.06	1.63	10.2	49	19.5	E.1	3.1	17.1	110	109	<.030	.22
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 WAT FLT 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. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. DIS-SOLVED (MG/L AS C) (00688)	CARBON, ORGANIC, PARTIC-ULATE 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)
DEC 05...	.030	.96	.009	1.3	.07	.074	--	.089	.7	<.1	2.5	.7	<1.0
FEB 26...	<.030	.86	.006	1.0	.04	.056	.030	.066	.4	<.1	1.9	.4	E1.8
MAY 21...	<.030	1.37	<.003	1.6	.18	.021	.023	.049	1.6	<.1	3.4	1.6	<1.0
SEP 05...	<.030	.92	.006	1.1	<.02	.094	.074	.103	.3	<.1	2.5	.3	<1.0

## DELAWARE RIVER BASIN

## 01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

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

DATE	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- PENDED (MG/L) (00530)
DEC 05...	--	20	4
FEB 26...	--	E10	18
MAY 21...	4.00	<10	11
SEP 05...	.600	20	6

**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)
JUL					AUG				
10...	0900	80	<100	10	07...	0920	80	<100	100
17...	0910	20	<100	30					
24...	0910	170	<100	80					
31...	0900	70	100	60					