

## DELAWARE RIVER BASIN

## 01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

**LOCATION.**--Lat 40°35'40", long 75°11'24", Warren County, Hydrologic Unit 02040105, at suspension bridge at Riegelsville, NJ, 600 ft upstream from Musconetcong River, and at river mile 174.8. Water-quality samples are collected from the bridge and are unaffected by the 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). The flow of the Musconetcong River is included in the instantaneous discharge, cfs (00061).

**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.

**COOPERATIVE NETWORK SITE DESCRIPTOR.**--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, $\mu$ S/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	
Date		Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Date		Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
NOV 17...	1030	12,200	1.3	.084	.064	764	11.2	91	7.7	163	10.5	6.6	56	
FEB 18...	1030	6,630	1.6	.052	.041	764	13.1	95	8.0	258	1.3	2.3	95	
MAY 05...	1030	19,800	7.8	.097	.075	756	9.4	91	7.6	133	17.0	13.7	41	
AUG 11...	1030	5,020	1.6	.075	.057	754	7.7	91	8.0	214	23.0	23.1	70	
NOV 17...	14.5	4.81	1.22	8.36	40	13.1	<.2	4.7	13.7	88	92	3	<.20	
FEB 18...	24.4	8.21	1.66	14.7	62	24.5	<.2	5.0	22.0	145	160	1	.30	
MAY 05...	11.2	3.22	.98	9.48	26	14.9	<.2	3.0	10.1	71	78	13	<.20	
AUG 11...	18.5	5.73	1.43	12.0	52	18.4	<.2	3.1	18.6	113	120	2	.20	
NOV 17...	<.020	<.020	.84	.008	.03	.027	.023	.029	--	--	.2	<.1	.2	
FEB 18...	.062	--	1.60	.016	<.02	.046	.043	.053	1.9	--	.3	<.1	.3	
MAY 05...	.020	--	.60	.008	.17	.025	.025	--	--	--	1.6	<.1	1.6	
AUG 11...	.010	--	1.01	.013	.04	.057	.065	.073	1.2	1.2	.6	<.1	.5	

## DELAWARE RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004--Continued

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, µg/L (01020)
NOV 17...	2.5	E1.8	11
FEB 18...	1.7	<1.1	14
MAY 05...	3.0	E1.1	10
AUG 11...	2.7	<1.0	15

Remark codes used in this table:

&lt; -- Less than

E -- Estimated value

## WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, ECbroth water, MPN/ 100 mL (31615)
AUG					
12...	0915	5,340	290	<100	300
19...	0910	18,000	240	100	260
26...	0915	12,600	170	<100	<20
31...	0915	11,700	1,400	700	2,200
SEP					
09...	0920	17,200	1,190	<100	9,000

Remark codes used in this table:

&lt; -- Less than