

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'32", long 75°11'19", revised, Warren County, Hydrologic Unit 02040105, at bridge on Riegelsville-Milford Road (County Route 627) in Riegelsville, 0.2 mi north of Mount Joy, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--156 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1962, 1976 to current year.

REMARKS.--Water-quality samples do not include Riegelsville Paper Company bypass flow. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Additional trace-element data for this and other stations are presented in "High-Flow Trace-Elements in Selected Streams of New Jersey (303d)" in the Water-Quality at Special-Study Sites section of this report. Additional trace-element data for this and other stations are presented in "High-Flow Trace-Elements in Selected Streams of New Jersey (303d)" in the Water-Quality at Special-Study Sites section of this report.

COOPERATION.--Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	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 uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (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 end pt, lab, mg/L as CaCO3 (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)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
NOV 22...	1130	278	1.4	.059	.044	762	12.3	107	8.2	417	10.3	9.2	120	
FEB 01...	1240	334	6.1	.043	.033	770	15.0	105	7.8	446	7.0	1.1	140	
MAY 02...	1000	349	3.6	.057	.043	760	11.3	105	7.8	424	16.5	11.8	150	
AUG 02...	0920	103	3.1	.047	.036	756	8.4	97	8.0	481	27.0	21.7	190	
NOV 22...		28.5	12.9	1.81	29.6	91	57.3	E.1	7.6	15.5	214	218	2	.16
FEB 01...		31.5	14.6	1.83	30.5	96	60.4	E.1	10.4	17.0	233	234	--	.20
MAY 02...		32.5	15.9	1.65	25.6	101	51.3	.1	8.3	15.6	221	231	--	.22
AUG 02...		39.8	22.1	2.44	23.0	141	49.2	E.1	6.8	17.6	257	262	2	.34
NOV 22...	E.009	1.50	.004	.05	1.7	1.7	E.009	.008	.018	.3	<.1	.3	2.2	
FEB 01...	E.039	2.16	--	.10	2.4	2.5	.007	.016	.034	1.0	<.1	1.0	1.6	
MAY 02...	<.040	2.08	--	.07	2.3	2.4	E.006	.012	.026	.7	<.1	.7	1.7	
AUG 02...	.039	2.65	--	.07	3.0	3.1	.015	.025	.041	.5	<.1	.4	1.8	

## DELAWARE RIVER BASIN

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 22...	E1.8	17	--	--
FEB 01...	--	16	9	8.1
MAY 02...	--	16	7	6.6
AUG 02...	<1.0	20	--	--

Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

## WATER-COLUMN BACTERIA ANALYSES

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Entero- cocci, 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)
JUL 28...	0929	230	200	300
AUG 04...	0925	230	<100	130
11...	0920	430	100	130
18...	0930	360	200	220
29...	1145	300	100	230

Remark codes used in this table:

&lt; -- Less than.