



Water-Data Report 2009

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°35'33", long 75°11'10" referenced to North American Datum of 1983, Pohatcong Township, Warren County, NJ, 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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1940-55, 1973, 1977 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft³/s
Nov 13, 2008	187
Mar 9, 2009	217
May 11, 2009	274
Aug 17, 2009	216

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY RECORDS

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

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Nov 13...	1100	757	10.0	.071	.054	187	12.1	102	8.1	409	7.9	2.4	228
Mar 09...	1000	755	8.0	.045	.034	217	11.7	101	8.0	496	8.3	2.2	262
May 11...	0900	761	13.0	.097	.074	274	10.9	108	8.0	409	14.9	11	258
Aug 17...	0900	763	28.0	.079	.061	216	9.2	104	8.0	441	21.2	4.7	245

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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Date	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)
Nov 13...	E226	140	1	31.2	14.7	1.82	28.8	103	.4	54.0	E.07	<.04	8.2
Mar 09...	E259	140	4	32.1	14.9	1.81	41.8	104	.7	74.7	E.06	M	4.0
May 11...	E215	120	17	29.0	12.7	1.51	29.0	91	1.7	59.0	E.05	<.04	8.7
Aug 17...	E240	160	3	35.4	16.6	2.13	25.9	116	.6	52.3	E.04	<.04	11.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ammonia + org-N,		Nitrate + nitrite,		Ortho-phosphate,	Particulate nitrogen,	Phosphorus,	Phosphorus,	Total nitrogen,	Total nitrogen,	Organic carbon,	Organic carbon,
	Sulfate water, fltrd, mg/L (00945)	water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	water, fltrd, mg/L as N (00631)								
Nov 13...	17.2	.19	.023	1.83	.015	.03	.017	.023	2.0	2.0	.36	2.3
Mar 09...	17.6	.24	.025	2.15	E.004	.10	E.005	.015	2.4	2.5	.68	1.9
May 11...	13.6	.29	.024	1.50	.020	.19	.031	.055	1.8	2.0	1.74	2.8
Aug 17...	17.0	.18	<.010	2.17	.031	.05	.036	.048	2.4	2.4	.57	2.4