

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION.--Lat 40°28'18", long 74°49'41", Hunterdon County, Hydrologic Unit 02030105, at bridge on Everitts Road, 0.6 mi southwest of Reaville, 1.5 mi downstream from Third Neshanic River, and 2.2 mi upstream from Back Brook.

DRAINAGE AREA.--25.7 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1957, 1962, 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1997 to August 1998.

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. 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.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

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	Time	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 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	Time	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, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, 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)	
NOV 18...	1000	20	1.5	.057	.044	764	11.2	102	7.7	265	10.7	11.2	96	
FEB 10...	1100	191	55	.177	.141	746	12.8	97	8.2	299	7.5	2.7	69	
JUN 01...	0930	3.5	1.8	.092	.073	764	6.2	65	8.0	346	16.8	17.9	130	
AUG 25...	0900	.11	3.1	.111	.083	764	7.5	81	9.1	410	19.8	19.7	160	
NOV 18...	23.9	8.77	2.16	15.8	65	25.8	E.1	10.1	27.6	160	173	2	.15	
FEB 10...	18.0	5.78	2.16	34.2	32	66.7	E.1	7.6	14.4	173	190	--	.41	
JUN 01...	31.6	12.2	2.14	20.5	89	27.7	E.1	1.2	37.0	187	212	--	.47	
AUG 25...	40.3	13.7	2.95	24.2	88	32.6	.2	.6	66.1	234	249	2	.41	
NOV 18...	.010	1.65	.007	<.02	1.8	--	.026	.025	.037	.2	<.1	.2		
FEB 10...	.053	1.00	--	.22	1.4	1.6	.033	.054	.143	1.5	<.1	1.5		
JUN 01...	.041	.40	--	.13	.86	1.0	E.006	E.02	E.03	.6	<.1	.6		
AUG 25...	.046	<.06	--	.13	--	--	.023	.04	.06	.7	<.1	.7		

## RARITAN RIVER BASIN

01398000 NESHANIC RIVER AT REAVILLE, NJ—Continued

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

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV 18...	1.9	E1.1	34	--	--
FEB 10...	4.3	--	14	30	15
JUN 01...	3.5	<1.0	57	2	.02
AUG 25...	4.4	<1.1	80	--	--

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	Instantaneous discharge, cfs (00061)	Enterococci, m-E MF, water, col/100 mL (31649)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, ECbroth water, MPN/100 mL (31615)
JUL 06...	1034	5.2	570	1,600	1,300
13...	1026	3.1	170	<100	40
20...	1016	9.0	920	500	800
27...	1024	1.9	240	1,100	300
AUG 03...	1030	.53	230	600	70

Remark codes used in this table:

&lt; -- Less than.