



Water-Data Report 2010

01379200 DEAD RIVER NEAR MILLINGTON, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°38'59", long 74°31'27" referenced to North American Datum of 1983, Warren Township, Somerset County, NJ, Hydrologic Unit 02030103, at bridge on King George Road (Spur County Route 527), 100 ft upstream from mouth, 2.0 mi south of Millington, and 4.2 mi south of Basking Ridge.

DRAINAGE AREA.--20.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-67. Miscellaneous measurements, water years 1973-75, 1987-88, and 1998 to current year.

GAGE.--Staff and reference points.

REMARKS.--Flow includes some sewage effluent.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft³/s
Nov 18, 2009	6.45
Mar 1, 2010	48.7
Jun 23, 2010	16.0
Aug 18, 2010	6.22

01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1963-65, 1967, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 6.

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 2009 TO SEPTEMBER 2010

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, organic constituents,		Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
				Absorbance, UV, 254 nm, 1 cm path length, water, filtered, per centimeter (50624)	Absorbance, UV, 280 nm, 1 cm path length, water, filtered, per centimeter (61726)				
11-18-2009	0930	766	9.5	.125	.097	6.5	6.9	60	7.1
03-01-2010	1300	746	--	.095	.073	49	12.0	93	7.1
06-23-2010	1020	757	--	.150	.112	16	5.1	59	7.3
08-18-2010	1000	757	24.5	.102	.077	6.2	5.7	66	7.5

WATER-QUALITY DATA

WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 5

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Date	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids, water, filtered, dried at 180 °C, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
03-01-2010	1,110	3.6	24	659	563	159	19	40.5	14.1
06-23-2010	503	22.5	51	282	269	128	37	32.5	11.3
08-18-2010	644	22.2	8.0	367	354	160	3	40.3	14.4

01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 5

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Date	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
			11-18-2009	4.14	43.5	98	.59	93.1	.11	< .06
03-01-2010	2.08	134	50	.78	306	< .08	< .06	12.1	17.4	.24
06-23-2010	4.36	44.8	67	2.37	85.0	.10	E .05	12.5	27.8	.56
08-18-2010	6.75	58.1	86	.41	107	.26	< .06	12.6	45.7	1.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

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Date	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos- phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphor- us, water, filtered, mg/L as P (00666)	Phosphor- us, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Organic carbon, suspended sediment, total, mg/L (00689)
		11-18-2009	.078	1.44	.673	.07	.70	.76	1.9
03-01-2010	.016	1.50	.060	.12	.07	.12	1.7	1.9	.82
06-23-2010	.126	2.28	--	.31	.42	.56	2.8	3.1	2.32
08-18-2010	.048	3.82	--	.04	.95	.99	4.9	5.0	.41

01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER
2009 TO SEPTEMBER
2010**

Part 5 of 5

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Date	Organic carbon, water, filtered, mg/L (00681)
11-18-2009	3.8
03-01-2010	3.0
06-23-2010	4.7
08-18-2010	3.6