



Water-Data Report 2009

**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 mi<sup>2</sup>.

**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 2008 TO SEPTEMBER 2009**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Dec 8, 2008	13.0
Feb 10, 2009	20.7
May 27, 2009	10.7
Aug 26, 2009	18.8

## 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 2008 TO SEPTEMBER 2009

Part 1 of 4

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Instantaneous discharge, ft <sup>3</sup> /s (00061)
<b>Dec</b>								
08...	1200	Surface water	Regular	766	.0	.079	.060	13
<b>Feb</b>								
10...	1110	Surface water	Replicate	762	8.5	.092	.071	21
10...	1110	<i>QC sample - Surface water</i>	<i>Split Replicate</i>	--	--	--	--	--
10...	1111	<i>QC sample - Surface water</i>	<i>Concurrent Replicate</i>	--	--	--	--	--
<b>May</b>								
27...	1200	Surface water	Regular	758	17.5	.101	.077	11
<b>Aug</b>								
26...	1100	Surface water	Regular	758	29.5	.208	.159	19

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

[Remark codes: &lt;, less than; E, estimated.]

Date	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm @ 25 degC (00095)	Temperature, deg C (00010)	Turbidity, white light, det ang 90+/-30 corrctd NTRU (63676)	Dissolved solids, dried @ 180degC wat flt mg/L (70300)	Dissolved solids, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO3 (00900)	Suspended solids, water, unfltrd mg/L (00530)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
<b>Dec</b>													
08...	--	--	--	--	--	4.9	291	279	140	1	34.1	12.4	3.01
<b>Feb</b>													
10...	12.6	92	7.1	982	2.2	8.3	504	E483	170	5	42.7	14.7	2.83
10...	--	--	--	--	--	--	510	507	180	12	46.0	16.0	3.30
10...	--	--	--	--	--	--	510	494	170	11	44.0	15.0	3.10
<b>May</b>													
27...	5.2	52	7.2	655	15.2	34	400	E357	170	40	43.7	15.7	4.55
<b>Aug</b>													
26...	5.5	63	6.9	486	21.6	15	270	E261	130	14	32.6	11.3	3.20

## 01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 4

[Remark codes: &lt;, less than; E, estimated.]

Date	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)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)
<b>Dec</b> 08...	37.8	78	.4	83.1	.15	<.04	16.9	28.8	.31	--	.021	3.30	.553
<b>Feb</b> 10...	111	52	1.0	238	E.05	<.04	13.4	21.8	.47	--	.146	1.50	.203
10...	120	53	--	260	.07	--	--	22.0	E.69	E.55	.100	1.60	.160
10...	110	53	--	260	.07	--	--	22.0	E.67	E.91	.099	1.60	.160
<b>May</b> 27...	56.3	91	1.3	121	E.07	<.04	18.0	31.5	.72	--	.251	1.97	.835
<b>Aug</b> 26...	40.7	79	.9	74.9	E.07	<.04	17.3	25.0	.55	--	.067	1.66	.205

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 4

[Remark codes: &lt;, less than; E, estimated.]

Date	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Boron, water, fltrd, µg/L (01020)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
<b>Dec</b> 08...	.07	.51	.59	3.6	3.7	--	.45	2.7
<b>Feb</b> 10...	.11	.21	.25	2.0	2.1	--	.96	3.2
10...	--	.210	.270	E2.3	E2.2	110	--	4.3
10...	--	.210	.280	E2.3	E2.5	110	--	4.1
<b>May</b> 27...	.18	.85	1.06	2.7	2.9	--	1.29	3.5
<b>Aug</b> 26...	.13	.23	.28	2.2	2.3	--	.87	5.4