

Water-Data Report 2007

**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 gage.

REMARKS.--Flow includes some sewage effluent.

**DISCHARGE MEASUREMENTS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 20, 2006	22.3
Feb 28, 2007	31.1
May 22, 2007	9.52
Aug 29, 2007	12.4

01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

**WATER-QUALITY RECORDS**

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

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). 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 2006 TO SEPTEMBER 2007**

Part 1 of 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd 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 unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 20...	1150	22	4.9	.151	.117	760	7.9	69	7.3	350	10.0	9.4	100
Feb 28...	1320	31	6.8	.105	.080	761	12.8	94	7.2	1,820	8.0	2.3	250
May 22...	1100	9.5	10	.130	.097	765	3.6	35	6.8	613	20.0	14.2	140
Aug 29...	1030	12	11	.109	.081	760	6.8	75	7.3	582	22.0	20.1	140

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

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

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 unf 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 non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 20...	25.6	9.11	2.26	26.6	69	47.3	<.10	17.3	18.9	196	192	5	.32
Feb 28...	66.1	21.7	3.83	239	53	529	E.08	12.2	25.2	940	1,040	1	.81
May 22...	35.2	12.8	3.22	49.4	87	107	E.09	16.3	25.8	309	351	12	1.5
Aug 29...	36.1	12.9	4.21	49.0	92	94.5	.11	18.1	29.5	319	354	13	.43

## 01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
<b>Nov</b> 20...	.036	1.70	.04	2.0	2.1	.192	.18	.23	.3	<.1	.3	4.0	126
<b>Feb</b> 28...	.153	2.27	.14	3.1	3.2	.334	.38	.41	1.3	<.1	1.3	4.5	111
<b>May</b> 22...	1.08	1.13	.11	2.7	2.7	.197	.22	.42	.9	<.1	.9	4.2	159
<b>Aug</b> 29...	.075	3.80	.07	4.2	4.3	.741	.70	.84	.5	<.1	.5	3.5	219