



Water-Data Report 2010

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°40'30", long 74°32'27" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, at bridge on County Highway 563, 0.6 mi north of Maxwell, 1.6 mi southeast of Washington, 1.8 mi southwest of Jenkins, and 2.2 mi upstream from confluence with Oswego River.

DRAINAGE AREA.--85.9 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-93, 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

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, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	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)
11-30-2009	1050	752	14.5	.332	.263	E 115	10.1	88	4.4
03-01-2010	1100	754	8.0	.557	.434	E 463	12.3	89	4.0
06-16-2010	1050	765	24.0	.786	.641	E 95	7.9	84	4.7
08-04-2010	0940	758	30.0	.242	.196	E 50	7.8	87	4.7

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 5

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Date	Specific conductivity, 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 dried at 180 °C, water, filtered, 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)
11-30-2009	39	9.2	4.2	32	< 21	3.20	4	.61	.407
03-01-2010	47	2.1	2.2	24	< 16	2.57	2	.53	.304
06-16-2010	36	18.7	15	28	< 13	2.71	24	.56	.319
08-04-2010	39	21.2	7.3	29	< 20	3.05	10	.62	.362

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)
11-30-2009	.77	2.72	< 1.7	1.57	5.13	< .08	< .06	5.5	4.54	.18
03-01-2010	.32	2.23	< 1.7	.54	4.40	< .08	< .06	3.0	3.75	.26
06-16-2010	.59	2.37	< 1.7	3.93	4.57	< .08	< .06	< .1	3.35	.18
08-04-2010	.98	2.31	< 1.7	3.65	4.37	< .08	< .06	5.4	4.81	.11

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ—Continued

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)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, 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)
11-30-2009	.058	< .04	E .005	.07	.009	.035	< .22	< .29	1.56
03-01-2010	< .010	< .04	.017	E .02	.022	.030	< .30	< .32	.54
06-16-2010	.030	< .04	--	.15	.011	.163	< .22	< .37	3.91
08-04-2010	< .010	< .04	--	.15	E .004	.090	< .15	< .30	3.65

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)
11-30-2009	6.0
03-01-2010	10.5
06-16-2010	7.3
08-04-2010	3.3