

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ

METEDECONK RIVER BASIN

LOCATION.--Lat 40°06'35", long 74°13'09" referenced to North American Datum of 1983, Lakewood Township, Ocean County, NJ, Hydrologic Unit 02040301, at highway bridge on U.S. Route 9, 0.3 mi north of County Line Road in Lakewood, and 3.6 mi upstream from Muddy Ford Brook.

DRAINAGE AREA.--19.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959-63, 1966. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Discharge, in ft³/s
Nov 25, 2008	29.1
Feb 3, 2009	28.2
May 4, 2009	38.6
Aug 17, 2009	11.7

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1959-63, 1998 to current year.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: August 2009.

DISSOLVED OXYGEN, PERCENT OF SATURATION: August 2009.

PH: August 2009.

SPECIFIC CONDUCTANCE: August 2009.

WATER TEMPERATURE: August 2009.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator and Watershed Reconnaissance, NJ Department of Environmental Protection Watershed Management Area 13. The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+ or -). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - none.

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. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 3

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units (50624)	UV absorb- ance, 280 nm, wat flt units (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Nov 25...	1200	750	13.0	.195	.154	29	11.4	91	6.4	167	5.8	10	106
Feb 03...	1100	756	1.0	.154	.118	28	12.7	93	6.5	323	2.3	4.8	204
May 04...	1310	758	12.5	.338	.264	39	8.9	85	6.5	174	13.1	13	102
Aug 17...	1230	767	34.0	.493	.395	12	7.0	81	6.6	196	20.0	20	133
20...	0900	756	--	--	--	--	6.8	79	7.4	205	22.4	--	--

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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

Date	Dis-solved solids, sum of constituents, mg/L (70301)	Hard-ness, water, mg/L as CaCO3 (00900)	Sus-pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed 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)
Nov 25...	E89	29	12	8.83	1.80	2.36	16.1	12	2.0	27.6	E.04	<.04	7.8
Feb 03...	E189	34	4	10.5	1.99	2.19	54.1	10	.7	84.5	<.08	<.04	7.9
May 04...	E88	27	15	8.21	1.59	2.03	18.6	13	1.8	30.6	E.07	<.04	5.9
Aug 17...	E105	37	5	11.5	1.97	2.69	19.8	18	.9	35.1	E.05	<.04	8.8
20...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	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)	Chloro-phyll a fluoro-metric method, uncorr, µg/L (32217)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Nov 25...	14.8	.29	.062	.59	.010	.15	.014	.068	.88	1.0	--	2.01	5.0
Feb 03...	18.0	.29	.084	.80	E.008	.04	.014	.026	1.1	1.1	--	.71	4.0
May 04...	11.2	.57	.050	.46	E.010	.16	.018	.062	1.0	1.2	--	1.82	7.9
Aug 17...	11.7	.37	.027	.69	.013	.04	.039	.090	1.1	1.1	--	.95	8.0
20...	--	--	--	--	--	--	--	--	--	--	.8	--	--

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES

AUGUST 17, 2009 TO AUGUST 20, 2009

