

2006 Parameter Data: pH for River, Stream and Tributary Sites

The standard measurement of acidity is pH. A pH of less than 7 is acidic; above pH 7 is alkaline, also known by the term "basic." The pH measurement is a logarithmic measurement, which means that each unit decrease in pH equals a ten-fold increase in acidity. In other words, pH 5 water is ten times more acidic than pH 6 water.

The normal pH range for rivers and streams in Rhode Island is between 6 and 8 pH units.

River sites arranged upstream to downstream when appropriate.

Watershed	RIVER & BROOK SITES	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	pH	----- Standard pH units -----						
CE	Bailey's Brook - Upstream	-	-	7.1	6.7	6.8	-	6.9
NA	Buckeye Brook #1 @ Novelty Rd	6.8	7.3	6.9	7.0	6.8	7.2	7.0
NA	Buckeye Brook #2 @ Lockwood Brk	6.3	6.7	6.7	6.5	6.5	7.3	6.7
NA	Buckeye Brook #3 @ Warner Brook	6.6	6.9	6.6	6.3	6.4	6.6	6.6
NA	Buckeye Brook #4 @ Mill Cove	6.7	6.8	6.9	6.9	6.6	7.6	6.9
WD	Falls River D - Step Stone Falls	6.1	6.2	6.3	6.2	6.2	6.4	6.2
WD	Falls River C - Austin Farm Rd.	6.2	6.1	6.5	6.5	6.7	6.6	6.4
WD	Falls River B - Sand Banks	6.3	5.6	6.3	6.4	6.6	6.5	6.3
WD	Falls River A - Twin Bridges	6.3	6.2	6.5	6.3	6.5	6.4	6.4
TH	Moosup River - Upstream	7.0	5.9	7.1	7.7	6.5	6.8	6.8
TH	Moosup River A - Fairbanks	6.2	6.0	7.0	6.5	6.4	6.2	6.4
TH	Moosup River B - Trestle Trail	6.2	6.2	6.9	6.4	6.6	6.3	6.4
M	Moshassuck River - Collyer Field	-	7.4	7.3	7.2	7.0	6.3	7.0
PE	NR 01- Gilbert Stuart	7.4	6.4	6.5	6.5	6.9	-	6.8
PE	NR 02 - Upper Pond 0.5M	7.9	8.0	7.5	7.6	7.9	-	7.8
PE	NR 02 - Upper Pond 3.0M	7.6	7.4	7.3	7.5	7.4	-	7.4
PE	NR 03 - Lower Pond A 0.5M	7.1	7.5	7.8	7.8	7.8	-	7.6
PE	NR 03 - Lower Pond A 3.0M	5.6	7.4	7.1	7.8	7.4	-	7.0
PE	NR 04 - Lower Pond B 0.5M	-	7.5	7.8	8.0	7.9	-	7.8
PE	NR 04 - Lower Pond B 3.0M	-	7.2	7.0	7.7	7.7	-	7.4
PE	NR 05 - Lacey Bridge	-	7.6	7.5	8.0	7.9	-	7.7
PE	NR 06 - Mettatuxet Beach	7.3	7.4	7.8	7.8	7.7	-	7.6
PE	NR 07 - End of Narrows	7.0	7.4	7.7	-	7.7	-	7.5
PE	NR 08 - Middlebridge	-	7.7	7.5	7.7	8.0	-	7.7
PE	NR 09 - Pettaquamscutt	-	-	-	-	-	-	-
PE	NR 10 - Sprague Bridge	7.6	7.7	-	7.6	7.8	-	7.7
PE	NR 11 - Mettatuxet Brook	-	7.0	6.4	7.2	6.4	-	6.7
PE	NR 12 - Mumford Brook	6.4	6.4	6.6	6.1	6.5	6.8	6.5
PE	NR 15 - Crooked Brook Farm	4.5	4.5	4.7	6.0	4.4	4.9	4.8
PE	NR 16 - Crooked Brook School	4.5	4.5	4.6	-	4.4	4.5	4.5

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	RIVERS (continued)	----- Standard pH units -----						
WD	Pawcatuck R - Bradford 0.5M	6.1	5.9	-	6.8	7.2	-	6.5
WD	Pawcatuck R - Avondale 0.5M	6.4	7.2	-	7.9	7.0	8.0	7.3
WD	Pawcatuck R - Avondale 3.0M	7.0	7.8	7.8	7.9	8.0	8.0	7.8
WD	Queen River @ Sand Bridge (TNC)	5.8	6.2	6.4	6.6	6.9	6.5	6.4
WD	Queen River @ Locke Brk	6.5	6.5	7.5	7.9	7.0	5.6	6.8
WD	Queen River @ Sherman Brk	5.6	6.1	6.5	7.1	6.7	6.1	6.3
H	Saw Mill Inlet (Sandhill Brook)	-	-	6.5	6.5	6.4	-	6.5
WD	Shickasheen @ Rte 2	-	5.7	5.7	5.8	5.9	5.4	4.5
WD	Shickasheen @ Miskiania Road	-	6.3	6.9	6.8	6.8	6.3	5.3
WD	Shickasheen @ Barber Pond Outlet	-	6.1	6.2	6.6	6.4	6.3	5.0
WD	Shickasheen @ Rte 138	-	5.9	6.1	6.4	6.6	5.9	6.1
WO	Woonasquatucket R. @ Cricket Park	6.8	7.6	6.8	6.7	6.9	6.9	7.0
WO	Woonasquatucket River @ Donigian	6.8	7.5	7.0	6.9	7.1	6.7	7.0

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES	----- Standard pH units -----						
WD	Asseconk Swamp	6.4	-	6.9	-	-	6.2	6.5
WD	Barber - Mud Brook	6.0	6.0	6.1	-	6.2	5.7	6.0
A	Belleville @ RR Xing	6.5	-	6.8	7.0	7.0	7.4	7.0
A	Belleville @ Sluiceway	6.7	-	7.1	6.9	6.9	6.7	6.9
PE	Carr Inlet (NK)	6.4	-	6.4	-	-	6.6	6.5
WO	Georgiaville @ Capron Pond	6.9	-	7.1	-	-	7.6	7.2
WO	Georgeville @ Harris	6.7	-	7.0	-	-	6.9	6.9
GB	Greenwich Bay - 01 (Maskerchugg River)	6.8	6.7	6.7	6.3	6.4	6.6	6.6
GB	Greenwich Bay - 02 (Gorton Pond outflow)	6.8	6.6	6.7	6.8	6.8	7.5	6.9
GB	Greenwich Bay - 03 (Hardig @ Rte 115)	6.9	6.7	6.8	6.7	6.8	7.8	7.0
GB	Greenwich Bay - 04 (Mill Creek)	6.6	6.4	6.6	6.8	6.3	6.7	6.5
GB	Greenwich Bay - 05 (Hardig @ Health Ctr)	6.6	6.9	7.4	6.5	6.7	6.3	6.7
GB	Greenwich Bay - 06 (Tuscatucket Brk)	6.7	6.5	6.7	7.0	7.1	6.2	6.7
GB	Greenwich Bay - 07 (Southern Creek)	6.5	6.2	6.6	6.9	6.3	6.6	6.5
NA	Nanaqua. Trib @ Quaket Brorok	6.0	-	7.1	-	-	5.7	6.3
NA	Nanaqua. Trib @ Sin & Flesh Brk	7.2	-	7.3	-	-	6.5	7.0
NA	Nanaqua. Trib @ White Wine Brk	6.8	-	6.8	-	-	6.4	6.7
WD	Pasquisett Tributary	5.7	-	5.9	-	-	6.8	6.1
A	Secret - Oak Hill Brook West	6.4	-	-	-	-	6.4	6.4
A	Secret - Oak Hill Brook East	6.4	-	-	-	-	6.5	6.4
A	Secret - Shore Dr.	6.3	-	-	-	-	6.5	6.4

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES (continued)	----- Standard pH units -----						
WD	Shunock River @ Hewitt	6.6	-	6.8	-	-	-	6.7
WO	Slack's Tributary #1 / A	-	-	6.5	-	-	-	6.5
WO	Slack's Tributary #2 / B	-	-	7.0	-	-	-	7.0
WO	Slack's Tributary #3 / C	-	-	7.0	-	-	-	7.0
WO	Slack's Tributary #4 / D	-	-	7.0	-	-	-	7.0
B	Smith & Sayles @ Keech Brook	-	-	-	-	-	-	-
B	Smith & Sayles @ Balcom Brk	-	-	-	-	-	-	-
B	Smith & Sayles @ O'Donnel Brk	-	-	-	-	-	-	-
TA	Staf Inlet - Downstream	-	6.7	-	-	-	-	6.7
TA	Stafford - NE Cove	-	7.0	7.3	6.9	-	-	7.1
WD	Watchaug - Perry Healy	-	-	6.0	-	-	6.2	6.1
WO	Waterman @ Rte 44	4.5	-	4.9	-	-	4.3	4.5
WO	Waterman @ Saw Mill	6.6	-	6.6	-	-	6.2	6.5
WO	Waterman @ Golf Course	6.5	-	6.5	-	-	6.3	6.4
WO	Waterman @ Aldrich	6.5	-	6.7	-	-	6.3	6.5
WD	White Brook Pond Inlet	6.4	-	6.2	6.2	-	5.9	6.2

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	WPWA - TRIBUTARIES	----- Standard pH units -----						
WD	Chipuxet River @ Rte 138	6.6	6.7	6.4	6.3	6.3	6.6	6.5
WD	Glen Rock Brook	5.9	5.5	6.6	6.6	6.2	7.2	6.3
WD	Pawcatuck R @ Biscuit City Rd	-	-	6.4	5.8	6.5	6.3	6.2
WD	Pawcatuck R @ Burdickville Rd	-	7.1	7.2	7.3	6.7	-	7.1
WD	Pawcatuck R @ Chase Hill Rd.	6.1	6.0	-	7.2	7.0	-	6.6
WD	P'tuck below Kenyon Ind.	6.0	6.4	6.4	6.3	6.6	5.9	6.3
WD	Pawcatuck R @ Rte 91	-	6.6	6.8	6.1	6.5	6.2	6.4
WD	Pawcatuck R below Bradford (DA)	6.1	0.0	6.9	6.7	7.0	-	5.3
WD	Queen River @ Mail Rd	6.1	6.0	7.1	6.8	6.7	5.4	6.3
WD	Queen River @ Rte 102	5.4	5.5	6.3	6.8	6.6	5.9	6.1
WD	Usquepaugh River @ Rte 2	6.0	6.6	6.7	6.3	6.6	6.6	6.5