## 2005 Parameter Data: Nitrate-Nitrogen in Lakes, Ponds and Reservoirs

Nitrate-nitrogen is typically the most common form of inorganic nitrogen in lakes and streams. Nitrate-nitrogen concentrations are monitored in fresh water systems to collect baseline information to document health risks due to consumption of water. The drinking water standard for nitrate-nitrogen is 10 parts per million (ppm). This is equivalent to 10,000 parts per billion (ppb), the units URI Watershed Watch reports this nutrient in. Nitrate-nitrogen levels above 1000 ppb indicate human impact of some sort; from home or agricultural fertilizers, human or animal waste. Nitrate-nitrogen is of particular concern in estuarine or salt water systems as it is the nutrient that stimulates plant and algae growth there, often called the limiting nutrient.

| Watershed code | LOCATION | Sample Depth (m) | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | MEAN |
|---|---|---|---|---|---|---|---|---|---|
| | | | - - (ug/l or ppb) - - | | | | | | |
| CE | ALMY POND | 0.5 | ND | - | - | - | ND | 140 | **60** |
| WD | ALTON POND | 1 | 160 | - | 230 | - | - | - | **195** |
| TH | ARNOLD POND | 1 | ND | - | ND | - | - | 40 | **27** |
| S | ASA POND | 1 | 430 | - | ND | - | - | - | **225** |
| WD | BARBER POND | 1 | 170 | ND | ND | ND | - | ND | **50** |
| WD | BARBER POND | 4.5 | 120 | 100 | ND | ND | - | 50 | **62** |
| A | BELLEVILLE POND - LOWER | 1 | 360 | - | ND | - | - | 70 | **150** |
| A | BELLEVILLE POND - UPPER | 0.5 | 330 | - | ND | - | - | 170 | **173** |
| PA | BLACKAMORE POND | 1 | 940 | - | 150 | - | - | 230 | **440** |
| TH | BLUE LAKE | 1 | - | - | ND | - | - | 70 | **45** |
| WD | BOONE LAKE | 1 | 200 | - | 60 | - | - | 70 | **110** |
| WD | BOONE LAKE | 5 | 210 | - | 100 | - | - | 80 | **130** |
| TH | BOWDISH RESERVOIR | 1 | ND | - | ND | - | ND | - | **ND** |
| WD | BREAKHEART POND | 1 | ND | - | ND | - | - | - | **ND** |
| TH | CARBUNCLE POND | 1 | ND | - | ND | - | ND | 50 | **28** |
| TH | CARBUNCLE POND | 6.5 | ND | - | ND | - | ND | 60 | **30** |
| PE | CARR POND (NK) | 1 | 500 | - | 160 | - | ND | 220 | **225** |
| PE | CARR POND (NK) | 4.5 | 500 | - | 50 | - | ND | 90 | **165** |
| PA | CARR POND (WG) | 1 | 60 | - | ND | - | - | ND | **33** |
| PA | CARR POND (WG) | 9 | 60 | - | ND | - | - | ND | **33** |
| CW | DEEP POND | 1 | - | 40 | - | - | ND | ND | **27** |
| CW | DEEP POND | 5 | - | ND | - | - | ND | ND | **ND** |
| PA | ELM POND | 1 | - | 70 | ND | ND | - | - | **37** |
| PA | ELM POND | 2 | - | 80 | ND | ND | - | - | **40** |
| PA | FENNER POND | 1 | 550 | - | ND | - | - | 230 | **267** |
| PA | FLAT RIVER RESERVOIR | 1 | 130 | - | 90 | - | - | 130 | **117** |
| PA | FLAT RIVER RESERVOIR | 7 | 110 | - | 70 | - | - | 110 | **97** |

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|---|---|---|---|---|---|---|---|---|---|
| | | | - - (ug/l or ppb) - - | | | | | | |
| WO | GEORGIAVILLE POND | 1 | 120 | 50 | - | ND | - | 130 | **80** |
| WO | GEORGIAVILLE POND | 6 | 120 | 110 | - | ND | - | 140 | **98** |
| WO | HAWKINS POND | 1 | 230 | - | 50 | - | - | 70 | **117** |
| WD | HUNDRED ACRE POND | 1 | 570 | - | 340 | - | - | 40 | **317** |
| WD | HUNDRED ACRE POND | 6 | 550 | - | 300 | - | - | 40 | **297** |
| S | INDIAN LAKE | 1 | 130 | - | ND | - | - | 40 | **63** |
| B | KEECH POND | 1 | 70 | - | ND | - | - | 60 | **50** |
| TH | LAKE WASHINGTON | 1 | ND | - | ND | - | ND | - | **ND** |
| CE | LILY POND | 1 | - | - | ND | - | - | 230 | **125** |
| PA | LITTLE POND | 1 | 360 | - | ND | - | ND | ND | **105** |
| PA | LITTLE POND | 5 | 340 | - | ND | - | ND | ND | **100** |
| WD | LOCUSTVILLE POND | 1 | 80 | - | ND | - | - | 60 | **53** |
| S | LONG POND (SK) | 1 | 50 | - | ND | - | - | ND | **30** |
| S | LONG POND (SK) | 7 | 50 | - | ND | - | - | 40 | **37** |
| WD | MEADOWBROOK POND | 1 | 120 | - | ND | - | - | ND | **53** |
| NA | MELVILLE POND - UPPER | 1 | 1410 | - | ND | - | - | 120 | **517** |
| PA | MISHNOCK LAKE | 1 | 450 | - | 70 | - | - | 170 | **230** |
| PA | MISHNOCK LAKE | 4 | - | - | 60 | - | - | 190 | **125** |
| SK | NANAQUAKET POND | 1 | ND | - | ND | - | - | 170 | **70** |
| B | NICHOLS POND | 1 | 80 | - | 50 | - | - | - | **65** |
| PA | OAK SWAMP RESERVOIR | 1 | 310 | - | ND | - | - | 140 | **157** |
| B | PASCOAG RESERVOIR | 1 | 50 | - | ND | - | ND | 40 | **33** |
| B | PASCOAG RESERVOIR | 4 | 50 | - | ND | - | ND | 50 | **35** |
| WD | PASQUISETT POND | 1 | 120 | - | 120 | - | - | 80 | **107** |
| PA | PLEASURE POND | 0.5 | - | 80 | ND | 40 | - | - | **47** |
| PA | PONAGANSETT RESERVOIR | 1 | 60 | - | ND | - | - | ND | **33** |
| PA | PONAGANSETT RESERVOIR | 9 | 40 | - | ND | - | - | 40 | **33** |
| NA | PRINCE'S POND | 1 | 330 | - | ND | - | ND | 50 | **105** |
| NA | PRINCE'S POND | 3 | 220 | - | ND | - | 50 | 60 | **88** |
| WD | QUEEN RIVER AT USQUEPAUGH (GLEN ROCK RES.) | 1 | 210 | - | 260 | - | - | 70 | **180** |
| PA | RANDALL POND | 1 | ND | - | ND | - | - | 40 | **27** |
| PA | SAND POND | 1 | ND | - | ND | - | 90 | - | **43** |
| PA | SAND POND | 7 | ND | - | ND | - | ND | ND | **ND** |

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|---|---|---|---|---|---|---|---|---|---|
| | | | - - (ug/l or ppb) - - | | | | | | |
| S | SAUGATUCKET POND | 1 | 280 | - | 410 | - | - | 130 | **273** |
| CW | SCHOOLHOUSE POND - LOWER | 1 | ND | - | ND | - | - | ND | **ND** |
| CW | SCHOOLHOUSE POND - LOWER | 6+ | ND | - | ND | - | - | ND | **ND** |
| CW | SCHOOLHOUSE POND - UPPER | 1 | ND | - | 60 | - | - | ND | **33** |
| CW | SCHOOLHOUSE POND - UPPER | 6+ | 40 | - | ND | - | - | ND | **27** |
| B | SCOTT POND | 1 | 220 | - | - | - | - | - | **-** |
| B | SCOTT POND | 9 | 240 | - | - | - | - | - | **-** |
| A | SECRET LAKE | 1 | 930 | - | 570 | - | - | 600 | **700** |
| S | SILVER LAKE | 1 | 40 | - | ND | - | - | 70 | **43** |
| S | SILVER LAKE | 7 | ND | - | ND | - | - | 50 | **30** |
| PE | SILVER SPRING LAKE | 1 | 1450 | - | 950 | - | - | 1090 | **1163** |
| TE | SLATER POND | 1 | ND | - | ND | - | ND | 80 | **35** |
| B | SLATERSVILLE RESERVOIR - UPPER | 1 | 120 | - | 130 | - | - | 130 | **127** |
| B | SLATERSVILLE RESERVOIR - UPPER | 5.5 | 120 | - | 60 | - | - | 130 | **103** |
| B | SMITH & SAYLES RESERVOIR | 1 | - | - | ND | - | - | - | **ND** |
| WD | SPALDING POND | 1 | - | - | ND | - | - | 110 | **65** |
| PA | SPECTACLE POND | 1 | 300 | - | ND | - | - | 350 | **223** |
| B | SPRING GROVE POND | 1 | ND | - | ND | - | - | ND | **ND** |
| B | SPRING LAKE | 1 | ND | - | ND | - | - | 40 | **27** |
| B | SPRING LAKE | 5 | ND | - | ND | - | - | ND | **ND** |
| TA | STAFFORD POND | 1 | - | ND | ND | - | ND | 140 | **50** |
| TA | STAFFORD POND | 7 | - | 50 | ND | - | ND | 160 | **63** |
| PA | TARBOX POND | 1 | ND | - | - | - | - | - | **-** |
| PA | TIOGUE LAKE | 1 | 680 | - | 200 | - | - | 190 | **357** |
| WD | TUCKER POND | 1 | 50 | - | ND | - | ND | ND | **28** |
| WD | TUCKER POND | 7.5 | ND | - | ND | - | ND | ND | **ND** |
| PA | UPPER DAM POND | 1 | 620 | - | 50 | - | - | 350 | **340** |
| B | VALLEY FALLS POND | 0.5 | 540 | - | 130 | - | - | 450 | **373** |
| B | WALLUM LAKE | 1 | ND | - | ND | - | - | - | **ND** |
| B | WALLUM LAKE | 5 | - | - | ND | - | - | - | **ND** |
| NA | WARWICK POND | 1 | 580 | - | ND | - | ND | 150 | **193** |
| NA | WARWICK POND | 5.5 | 550 | - | ND | - | 40 | 100 | **178** |
| WD | WATCHAUG POND | 1 | ND | - | ND | - | ND | ND | **ND** |
| WD | WATCHAUG POND | 10 | ND | - | ND | - | ND | ND | **ND** |

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|---|---|---|---|---|---|---|---|---|---|
| | | | - - (ug/l or ppb) - - | | | | | | |
| WO | WATERMAN RESERVOIR | 1 | 120 | - | ND | - | - | 70 | **70** |
| NA | WESQUAGE POND | 1 | ND | ND | ND | - | - | ND | **ND** |
| WD | WHITE BROOK POND | 1 | - | 850 | 650 | - | - | 340 | **400** |
| S | WHITE POND | 1 | - | - | ND | - | ND | - | **ND** |
| S | WHITE POND | 8+ | - | - | ND | - | ND | - | **ND** |
| WD | WINCHECK POND | 1 | ND | - | ND | - | - | - | **ND** |
| WD | WINCHECK POND | 5 | ND | - | ND | - | - | - | **ND** |
| WO | WOONASQUA. RES. - STUMP P. | 1 | ND | - | ND | - | - | ND | **ND** |
| WD | WORDEN POND | 1 | 50 | - | ND | - | - | - | **35** |
| WD | WYASSUP LAKE | 1 | - | - | ND | - | - | 40 | **30** |
| WD | WYASSUP LAKE | 7 | - | - | - | - | - | 50 | **-** |
| WD | WYOMING POND | 1 | - | 180 | 130 | - | - | 40 | **117** |
| WD | YAWGOO POND | 1 | 50 | 110 | ND | ND | ND | 470 | **115** |
| WD | YAWGOO POND | 10 | 70 | 70 | ND | 40 | ND | 440 | **110** |

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