

2000 Parameter Data: Nitrate-nitrogen

**2000 Nitrate-Nitrogen Data for 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 uses to measure this nutrient. 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; it is the nutrient that stimulates plant and algae growth there.

| LOCATION                 | MAY                 | JUNE | JULY | AUG. | OCT. | MEAN       |
|--------------------------|---------------------|------|------|------|------|------------|
| Concentration at 1M      | -- (ug/l or ppb) -- |      |      |      |      |            |
| ALTON POND               | 120                 | -    | 320  | -    | 190  | <b>210</b> |
| BARBER POND              | ND                  | -    | ND   | -    | ND   | <b>ND</b>  |
| BELLEVILLE POND - LOWER  | 160                 | -    | ND   | -    | ND   | <b>67</b>  |
| BELLEVILLE POND - UPPER  | 475                 | -    | ND   | -    | 140  | <b>212</b> |
| BOONE LAKE               | 700                 | -    | ND   | -    | -    | <b>360</b> |
| BOWDISH RESERVIOR        | ND                  | -    | ND   | -    | -    | <b>ND</b>  |
| CARBUNCLE POND           | 100                 | -    | ND   | -    | ND   | <b>47</b>  |
| CARR POND (NK)           | 370                 | -    | 40   | -    | -    | <b>205</b> |
| CARR POND (WG)           | 90                  | 110  | ND   | -    | ND   | <b>60</b>  |
| CLARK POND               | ND                  | -    | ND   | -    | 60   | <b>33</b>  |
| COOMBER'S RESERVOIR      | -                   | -    | ND   | -    | ND   | <b>ND</b>  |
| DEEP POND                | ND                  | ND   | ND   | -    | ND   | <b>ND</b>  |
| FLAT RIVER RESERVOIR     | 70                  | 80   | -    | -    | 40   | <b>63</b>  |
| GEORGIAVILLE POND        | 120                 | -    | ND   | -    | 60   | <b>67</b>  |
| GORTON POND              | 450                 | -    | ND   | -    | ND   | <b>163</b> |
| HUNDRED ACRE POND        | 260                 | -    | 110  | -    | 120  | <b>163</b> |
| INDIAN LAKE              | 220                 | -    | ND   | -    | ND   | <b>87</b>  |
| KEECH POND               | 50                  | -    | ND   | -    | 80   | <b>50</b>  |
| LARKIN POND              | 60                  | -    | ND   | -    | -    | <b>40</b>  |
| LITTLE POND              | 100                 | -    | ND   | -    | 100  | <b>73</b>  |
| LOCUSTVILLE POND         | 60                  | -    | ND   | -    | 110  | <b>63</b>  |
| LONG POND                | ND                  | -    | ND   | -    | ND   | <b>ND</b>  |
| LOWER SPRAGUE RESERVOIR  | 230                 | -    | ND   | -    | ND   | <b>90</b>  |
| MASHAUG POND             | 260                 | -    | -    | 70   | 240  | <b>190</b> |
| MEADOWBROOK POND         | 40                  | -    | ND   | -    | 90   | <b>50</b>  |
| MELVILLE POND - UPPER    | 1490                | -    | ND   | -    | ND   | <b>510</b> |
| MISHNOCK LAKE            | 420                 | -    | 230  | -    | 200  | <b>283</b> |
| OAK SWAMP RESERVOIR      | 280                 | -    | ND   | -    | ND   | <b>107</b> |
| PASCOAG RESERVOIR        | 50                  | -    | ND   | -    | ND   | <b>30</b>  |
| PASQUSETT POND           | 130                 | -    | 200  | -    | 210  | <b>180</b> |
| PRINCE'S POND            | ND                  | -    | ND   | -    | ND   | <b>ND</b>  |
| QUEEN RIVER AT USQUEPAUG | 170                 | -    | 190  | -    | 130  | <b>163</b> |
| QUIDNICK RESERVOIR       | 70                  | -    | ND   | -    | ND   | <b>37</b>  |
| SAND POND                | ND                  | -    | ND   | -    | 50   | <b>30</b>  |
| SAUGATUCKET POND         | 260                 | -    | 300  | -    | 300  | <b>287</b> |
| SCHOOLHOUSE POND - LOWER | ND                  | 260  | ND   | -    | ND   | <b>80</b>  |

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|------------------------------|---------------------|------|------|------|-------|-------|
| Concentration at 1M          | -- (ug/l or ppb) -- |      |      |      |       |       |
| SCHOOLHOUSE POND - UPPER     | ND                  | ND   | ND   | -    | ND    | ND    |
| SECRET LAKE                  | 710                 | -    | 440  | -    | 450   | 533   |
| SHIPPEE MILL POND            | ND                  | -    | ND   | -    | ND    | ND    |
| SILVER LAKE                  | 40                  | -    | ND   | -    | ND    | 27    |
| SILVER SPRING LAKE           | 1000                | -    | 440  | -    | 1110  | 850   |
| SLACK'S RESERVOIR            | 200                 | 110  | ND   | ND   | ND*   | 65    |
| SLATER POND                  | ND                  | -    | ND   | -    | ND    | ND    |
| SMITH AND SAYLES RESERVOIR   | ND                  | -    | ND   | -    | 80    | 40    |
| SPALDING POND                | ND                  | -    | ND   | -    | ND    | ND    |
| SPECTACLE POND               | 160                 | -    | ND   | -    | 60    | 80    |
| SPRING GROVE POND            | ND                  | -    | ND   | -    | ND    | ND    |
| SPRING LAKE                  | ND                  | -    | ND   | -    | ND    | ND    |
| STAFFORD POND                | ND                  | -    | ND   | -    | ND    | ND    |
| STILLWATER POND              | 90                  | -    | 40   | -    | -     | 65    |
| TARBOX POND                  | ND                  | -    | ND   | -    | ND    | ND    |
| TIOGUE LAKE                  | 630                 | -    | 380  | -    | 340   | 450   |
| TIPPECANSETT POND            | ND                  | -    | ND   | -    | -     | ND    |
| TUCKER POND                  | ND                  | -    | ND   | -    | ND    | ND    |
| TURNER RESERVIOR             | 1250                | -    | 1770 | -    | >2000 | >1510 |
| UPPER DAM POND               | -                   | -    | 470  | -    | -     | 470   |
| UPPER SLATERSVILLE RESERVIOR | 150                 | -    | 210  | -    | -     | 180   |
| VALLEY FALLS POND            | 830                 | -    | 240  | -    | 1230  | 767   |
| WARWICK POND                 | 650                 | -    | 170  | -    | 230   | 350   |
| WASH POND                    | ND                  | -    | -    | -    | -     | ND    |
| WATCHAUG POND                | ND                  | -    | ND   | -    | 460   | 167   |
| WATERMAN RESERVOIR           | 110                 | -    | ND   | -    | 70    | 67    |
| WENSCOTT RESERVIOR           | 90                  | -    | ND   | -    | 40    | 50    |
| WESQUAGE POND                | 70                  | -    | ND   | -    | ND    | 37    |
| WHITE POND                   | ND                  | -    | ND   | -    | -     | ND    |
| WOONASQUATUCKET RESERVOIR    | 120                 | -    | ND   | -    | ND    | 53    |
| WOONASQUAT. RES. SOUTH END   | 160                 | -    | ND   | -    | ND    | 67    |
| WORDEN POND                  | 90                  | -    | 90   | -    | 80    | 87    |
| WYASSUP LAKE                 | ND                  | -    | ND   | -    | ND    | ND    |
| WYOMING POND                 | 80                  | -    | 80   | -    | 130   | 97    |
| YAWGOO POND                  | ND                  | ND   | ND   | -    | ND*   | ND    |

\* = this is the mean value of September and October samples.

ND = No Detect      Limit of Detection = 40 ppb  
 Mean calculated using half the limit of detection (20 ppb) for ND