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| Supplemental Table 1. Location data for study lakes and watershed size (ha) for lakes and estuaries  |
|  |  |  |  |  |  |  |  |
|  Lake Name |  Lake Lat. |  Lake Long. | Wastershed size (ha) with water removed |  |
| 51 Lakes |  |  |  |  |  |  |  |
| Alton | 41.443162 | -71.718536 | 22570 |  |  |  |  |
| Asa | 41.459212 | -71.513120 | 310 |  |  |  |  |
| Ashville | 41.500854 | -71.756127 | 70 |  |  |  |  |
| Belleville | 41.563214 | -71.480517 | 910 |  |  |  |  |
| Boone | 41.583003 | -71.673801 | 570 |  |  |  |  |
| Bowdish | 41.923120 | -71.774661 | 650 |  |  |  |  |
| Breakheart | 41.598387 | -71.701314 | 1590 |  |  |  |  |
| Browning Mill | 41.558071 | -71.689525 | 1410 |  |  |  |  |
| Burlingame | 41.909663 | -71.745370 | 480 |  |  |  |  |
| Carbuncle | 41.697874 | -71.773378 | 450 |  |  |  |  |
| Chapman | 41.380264 | -71.794961 | 1840 |  |  |  |  |
| Deep | 41.391267 | -71.662400 | 20 |  |  |  |  |
| Eisenhower | 41.620902 | -71.716280 | 840 |  |  |  |  |
| GilbertS | 41.635722 | -71.556017 | 1230 |  |  |  |  |
| Gorton | 41.705270 | -71.458830 | 300 |  |  |  |  |
| Hundred | 41.500151 | -71.542055 | 2360 |  |  |  |  |
| Indian | 41.480009 | -71.468058 | 210 |  |  |  |  |
| Jamestown | 41.531310 | -71.372326 | 80 |  |  |  |  |
| JL Curran | 41.752465 | -71.549023 | 210 |  |  |  |  |
| Keech | 41.879793 | -71.687589 | 1540 |  |  |  |  |
| Larkin | 41.469520 | -71.558576 | 30 |  |  |  |  |
| Little | 41.705795 | -71.406844 | 50 |  |  |  |  |
| Locustville | 41.516659 | -71.721313 | 3270 |  |  |  |  |
| Lower Beach | 41.571233 | -71.784443 | 160 |  |  |  |  |
| Meadowbrook | 41.440659 | -71.690722 | 1590 |  |  |  |  |
| Mishnock | 41.653108 | -71.588596 | 60 |  |  |  |  |
| Nonquint | 41.564006 | -71.195182 | 1710 |  |  |  |  |
| OakSwamp | 41.827830 | -71.540068 | 180 |  |  |  |  |
| Pasquisett | 41.426073 | -71.631182 | 1190 |  |  |  |  |
| Quidnick | 41.679780 | -71.678483 | 560 |  |  |  |  |
| Schoolhouse | 41.400973 | -71.668023 | 410 |  |  |  |  |
| Secret | 41.554608 | -71.478145 | 620 |  |  |  |  |
| Simmons Mill | 41.539929 | -71.148572 | 380 |  |  |  |  |
| Spring Green | 41.735011 | -71.409398 | 160 |  |  |  |  |
| Stafford | 41.640217 | -71.156126 | 400 |  |  |  |  |
| Tarbox | 41.635157 | -71.569088 | 410 |  |  |  |  |
| Tiogue | 41.678282 | -71.550350 | 630 |  |  |  |  |
| Tucker | 41.422160 | -71.551828 | 230 |  |  |  |  |
| Turner | 41.837815 | -71.339272 | 13640 |  |  |  |  |
| Upper Dam | 41.705572 | -71.552801 | 80 |  |  |  |  |
| UpperSlatersville | 41.989944 | -71.596890 | 5030 |  |  |  |  |
| Wakefield | 41.963128 | -71.792426 | 390 |  |  |  |  |
| Wallum | 42.001032 | -71.765288 | 490 |  |  |  |  |
| Warwick | 41.723752 | -71.412675 | 380 |  |  |  |  |
| Watchaug | 41.384054 | -71.691207 | 1660 |  |  |  |  |
| Waterman | 41.876649 | -71.586161 | 1980 |  |  |  |  |
| Wilson | 41.969313 | -71.726221 | 2870 |  |  |  |  |
| Wincheck | 41.515939 | -71.771544 | 1030 |  |  |  |  |
| Worden's | 41.439087 | -71.574914 | 6210 |  |  |  |  |
| Wyoming | 41.519497 | -71.697449 | 15000 |  |  |  |  |
| Yawgoo | 41.511071 | -71.573107 | 400 |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Nine Estuaries 1 |  |  |  |  |  |  |  |
| Bass River |  |  | 3830 |  |  |  |  |
| Great Island |  |  | 7320 |  |  |  |  |
| Great Pond |  |  | 4960 |  |  |  |  |
| Little Pond |  |  | 620 |  |  |  |  |
| Mill Creek |  |  | 1100 |  |  |  |  |
| Narragansett Bay (RI + MA) |  | 275000 |  |  |  |  |
| Ninigret Pond |  |  | 3650 |  |  |  |  |
| Sage Lot Pond |  |  | 250 |  |  |  |  |
| Three Bays |  |  | 6000 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 1 Sample site locations for estuaries are in Supplemental Table 3 |  |  |  |