Table 1. Definitions of the three NLA data subsets needed to perform the analyses for this study.

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| --- | --- |
| **Data subsets used in analyses** | **Definition** |
| **Reference lakes** | Lakes hand-selected by the EPA and determined to be in least disturbed conditions (USEPA, 2022b). |
| **All surveyed lakes** | All lakes surveyed during the NLA in 2007 and in 2017, includes reference and all other lakes. |
| **Resampled lake** | Lakes sampled in both the 2007 and 2017 NLA surveys. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Median DIN:TP molar ratio** | | **25th Percentile DIN mg L-1 from all surveyed lakes** | | **75th Percentile DIN mg L-1 from reference lakes** | | **DIN mg L-1 concentration threshold** | | **25th Percentile TP µg L-1 from all surveyedlakes** | | **75th Percentile TP µg L-1 from reference lakes** | | **TP µg L-1 concentration threshold** | |
|  | **2007** | **2017** | **2007** | **2017** | **2007** | **2017** | **2007** | **2017** | **2007** | **2017** | **2007** | **2017** | **2007** | **2017** |
| **Northern Appalachians** | 5.53 | 2.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 4.75 | 8.16 | 11.00 | 13.66 | 7.88 | 10.91 |
| **Southern Appalachians** | 3.34 | 1.46 | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 7.38 | 9.94 | 10.00 | 16.37 | 8.69 | 13.15 |
| **Coastal Plains** | 1.18 | 0.72 | 0.02 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 28.25 | 24.61 | 36.00 | 24.73 | 32.13 | 24.67 |
| **Temperate Plains** | 1.17 | 0.92 | 0.02 | 0.02 | 0.14 | 0.03 | 0.08 | 0.02 | 33.75 | 35.15 | 80.50 | 49.75 | 57.13 | 42.45 |
| **Upper Midwest** | 4.42 | 2.08 | 0.02 | 0.01 | 0.04 | 0.64 | 0.03 | 0.32 | 8.00 | 13.37 | 9.50 | 33.35 | 8.75 | 23.36 |
| **Northern Plains** | 1.69 | 0.95 | 0.04 | 0.02 | NA | 0.04 | 0.04 | 0.03 | 61.00 | 48.22 | NA | 275.62 | 61.00 | 161.92 |
| **Southern Plains** | 1.66 | 0.95 | 0.02 | 0.01 | 0.06 | 0.06 | 0.04 | 0.04 | 24.00 | 25.89 | 533.75 | 55.12 | 278.88 | 40.50 |
| **Xeric** | 2.44 | 1.28 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 15.00 | 19.10 | 48.25 | 21.51 | 31.63 | 20.30 |
| **Western Mountains** | 4.06 | 1.50 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 4.00 | 9.60 | 4.00 | 14.07 | 4.00 | 11.83 |

Table 2. Nutrient molar ratios and concentration thresholds used in limitation calculations.