## Root_Traits_Ind
| Genus | Species | Latin\_name | Common\_name | Individual\_name | Total\_RootLength | Total\_RootProjArea | Total\_RootSurfArea | Mean\_RootDiameter | Mean\_RootVolume | Root\_dwt | SRL | RTD | Root\_d13C | Root\_C | Root\_d15N | Root\_N |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tilia | americana | Tilia\_americana | american basswood | americanbasswood11 | 88.9192 | 2.6203 | 8.2320 | 0.2947 | 0.061 | 0.0500 | 17.783840 | 0.819672 | -30.72 | 42.123 | -3.19 | 1.060 |
| Tilia | americana | Tilia\_americana | american basswood | americanbasswood12 | 80.4171 | 2.6039 | 8.1804 | 0.3238 | 0.066 | 0.0510 | 15.768059 | 0.772727 | -30.19 | 42.725 | -2.72 | 0.954 |
| Tilia | americana | Tilia\_americana | american basswood | americanbasswood13 | 59.4679 | 2.3671 | 7.4364 | 0.3980 | 0.074 | 0.0670 | 8.875806 | 0.905405 | -30.55 | 35.702 | -2.44 | 0.788 |
| Ulmus | americana | Ulmus\_americana | american elm | americanelm10 | 38.2721 | 1.8752 | 5.8912 | 0.4900 | 0.072 | 0.0430 | 8.900488 | 0.597222 | -29.96 | 47.151 | -3.00 | 0.778 |
| Ulmus | americana | Ulmus\_americana | american elm | americanelm11 | 83.6989 | 3.5826 | 11.2551 | 0.4280 | 0.120 | 0.0870 | 9.620563 | 0.725000 | -28.25 | 46.813 | -3.11 | 0.898 |
| Ulmus | americana | Ulmus\_americana | american elm | americanelm9 | 82.9853 | 3.9242 | 12.3281 | 0.4729 | 0.146 | 0.1050 | 7.903362 | 0.719178 | -27.52 | 45.805 | -3.10 | 0.863 |
| Prunus | serotina | Prunus\_serotina | black cherry | blackcherry6 | 281.9673 | 10.8604 | 34.1190 | 0.3852 | 0.329 | 0.2600 | 10.844896 | 0.790274 | -27.33 | 47.770 | -2.97 | 1.001 |
| Prunus | serotina | Prunus\_serotina | black cherry | blackcherry7 | 445.1571 | 20.1053 | 63.1627 | 0.4516 | 0.713 | 0.6470 | 6.880326 | 0.907433 | -28.83 | 44.049 | -2.99 | 1.086 |
| Prunus | serotina | Prunus\_serotina | black cherry | blackcherry9 | 110.1101 | 3.5103 | 11.0278 | 0.3188 | 0.088 | 0.0600 | 18.351683 | 0.681818 | -28.81 | 45.719 | -2.40 | 1.042 |
| Quercus | velutina | Quercus\_velutina | black oak | blackoak10 | 155.0277 | 4.6522 | 14.6154 | 0.3001 | 0.110 | 0.0867 | 17.880934 | 0.788182 | -29.63 | 45.503 | -2.04 | 1.020 |
| Quercus | velutina | Quercus\_velutina | black oak | blackoak11 | 69.9681 | 2.5176 | 7.9092 | 0.3598 | 0.071 | 0.0430 | 16.271651 | 0.605634 | -26.55 | 51.525 | -3.21 | 0.874 |
| Quercus | velutina | Quercus\_velutina | black oak | blackoak12 | 111.7213 | 3.9583 | 12.4354 | 0.3543 | 0.110 | 0.0320 | 34.912906 | 0.290909 | -29.01 | 46.482 | -2.74 | 1.024 |
| Quercus | velutina | Quercus\_velutina | black oak | blackoak13 | 149.4012 | 5.8890 | 18.5007 | 0.3942 | 0.182 | 0.0520 | 28.731000 | 0.285714 | -29.13 | 46.723 | -1.63 | 1.058 |
| Ostrya | virginiana | Ostrya\_virginiana | hophornbeam | hophornbeam10 | 84.1378 | 2.1404 | 6.7242 | 0.2544 | 0.043 | 0.0571 | 14.735166 | 1.327907 | -30.09 | 43.187 | -4.17 | 0.971 |
| Ostrya | virginiana | Ostrya\_virginiana | hophornbeam | hophornbeam11 | 120.6472 | 3.0347 | 9.5339 | 0.2515 | 0.060 | 0.0583 | 20.694202 | 0.971667 | -31.33 | 42.596 | -3.45 | 1.071 |
| Ostrya | virginiana | Ostrya\_virginiana | hophornbeam | hophornbeam8 | 211.2000 | 7.0108 | 22.0249 | 0.3319 | 0.183 | 0.1450 | 14.565517 | 0.792350 | -31.62 | 41.151 | -2.44 | 1.152 |
| Ostrya | virginiana | Ostrya\_virginiana | hophornbeam | hophornbeam9 | 138.4806 | 4.8552 | 15.2530 | 0.3506 | 0.134 | 0.1672 | 8.282333 | 1.247761 | -29.32 | 40.016 | -2.83 | 0.983 |
| Acer | rubrum | Acer\_rubrum | red maple | redmaple10 | 84.8549 | 3.4444 | 10.8208 | 0.4059 | 0.110 | 0.0520 | 16.318250 | 0.472727 | -29.32 | 48.240 | -4.39 | 0.875 |
| Acer | rubrum | Acer\_rubrum | red maple | redmaple7 | 279.1691 | 15.2264 | 47.8352 | 0.5454 | 0.652 | 0.4330 | 6.447323 | 0.664110 | -29.84 | 44.808 | -2.37 | 0.672 |
| Acer | rubrum | Acer\_rubrum | red maple | redmaple9a | 94.8680 | 3.8212 | 12.0047 | 0.4028 | 0.121 | 0.0600 | 15.811333 | 0.495868 | -32.04 | 47.685 | -2.88 | 0.816 |
| Quercus | rubra | Quercus\_rubra | red oak | redoak10 | 205.6338 | 8.1272 | 25.5323 | 0.3952 | 0.252 | 0.2730 | 7.532374 | 1.083333 | -29.74 | 48.457 | -2.22 | 0.815 |
| Quercus | rubra | Quercus\_rubra | red oak | redoak11 | 270.7444 | 9.8064 | 30.8076 | 0.3622 | 0.279 | 0.2940 | 9.208993 | 1.053763 | -29.25 | 43.882 | -3.05 | 0.687 |
| Quercus | rubra | Quercus\_rubra | red oak | redoak6 | 329.7586 | 11.6405 | 36.5696 | 0.3530 | 0.323 | 0.3220 | 10.240950 | 0.996904 | -27.74 | 47.711 | -2.61 | 0.902 |
| Sassafras | albidum | Sassafras\_albidum | sassafras | sassafras10 | 78.3916 | 3.3052 | 10.3834 | 0.4216 | 0.109 | 0.0380 | 20.629368 | 0.348624 | -28.32 | 43.200 | -3.67 | 0.981 |
| Sassafras | albidum | Sassafras\_albidum | sassafras | sassafras4 | 85.1341 | 3.0610 | 9.6166 | 0.3596 | 0.086 | 0.0640 | 13.302203 | 0.744186 | -29.74 | 44.311 | -3.17 | 0.722 |
| Sassafras | albidum | Sassafras\_albidum | sassafras | sassafras9 | 96.4507 | 3.5189 | 11.0551 | 0.3648 | 0.101 | 0.0580 | 16.629431 | 0.574257 | -30.90 | 46.783 | -5.60 | 1.429 |
| Fraxinus | americana | Fraxinus\_americana | white ash | whiteash10 | 87.0458 | 3.9787 | 12.4995 | 0.4571 | 0.143 | 0.0500 | 17.409160 | 0.349650 | -32.01 | 44.760 | -6.00 | 1.153 |
| Fraxinus | americana | Fraxinus\_americana | white ash | whiteash11 | 52.5380 | 2.0899 | 6.5655 | 0.3978 | 0.065 | 0.0180 | 29.187778 | 0.276923 | -27.96 | 47.453 | -3.35 | 0.789 |
| Fraxinus | americana | Fraxinus\_americana | white ash | whiteash6 | 158.0351 | 7.8181 | 24.5613 | 0.4947 | 0.304 | 0.1240 | 12.744766 | 0.407895 | -32.07 | 40.270 | -4.37 | 1.405 |
| Fraxinus | americana | Fraxinus\_americana | white ash | whiteash9 | 47.1001 | 1.7656 | 5.5469 | 0.3749 | 0.052 | 0.0160 | 29.437562 | 0.307692 | -30.65 | 47.237 | -3.38 | 1.175 |
| Quercus | alba | Quercus\_alba | white oak | whiteoak11 | 66.9530 | 2.3791 | 7.4743 | 0.3553 | 0.066 | 0.0531 | 12.608851 | 0.804545 | -30.40 | 47.631 | -4.03 | 1.060 |
| Quercus | alba | Quercus\_alba | white oak | whiteoak12 | 133.8858 | 4.1580 | 13.0629 | 0.3106 | 0.101 | 0.0734 | 18.240572 | 0.726733 | -29.91 | 45.086 | -3.31 | 1.019 |
| Quercus | alba | Quercus\_alba | white oak | whiteoak9 | 235.0316 | 6.3597 | 19.9797 | 0.2706 | 0.135 | 0.1239 | 18.969459 | 0.917778 | -28.58 | 41.402 | -3.68 | 0.901 |

## Legend
| Column name | Explanation | Unit |
| --- | --- | --- |
| Genus | Latin genus name | NaN |
| Species | Latin species names | NaN |
| Latin\_name | Full Latin name | NaN |
| Common\_name | Common (English) name | NaN |
| Individual\_name | Individual tree name | NaN |
| Total\_RootLength | Total root length of scanned sample | cm |
| Total\_RootProjArea | Total root projected area of scanned sample | cm2 |
| Total\_RootSurfArea | Total root surface area of scanned sample | cm2 |
| Mean\_RootDiameter | Mean root diameter of scanned sample | mm |
| Mean\_RootVolume | Mean root volume of scanned sample | cm3 |
| Root\_dwt | Total root dry weight of scanned sample | g |
| SRL | Specific root length (dwt / length) | m.g-1 |
| RTD | Root tissue denstiy (dwt / volume) | g.cm-3 |
| Root\_d13C | Root d13C | - (per mil) |
| Root\_C | Root carbon concentration | % |
| Root\_d15N | Root d15N | - (per mil) |
| Root\_N | Root nitrogen concentration | % |