Table S1. Biomass equations of woody species within the HF ForestGEO plot. bm = biomass (kg), dbh = diameter at breast height (cm).

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| --- | --- | --- |
| Species | Equation | Reference |
| *Acer pensylvanicum* | bm = (exp(7.227+1.6478\*log(dbh/2.54)))/1000 | (Jenkins et al. 2004)  |
| *Acer rubrum* | log(bm)=-2.2202 + 2.3922\*log(dbh) | (Finzi et al. 2020) |
| *Acer saccharum* | log(bm)=-1.291 + 2.219\*log(dbh) | (Finzi et al. 2020) |
| *Acer* unknown | log(bm)=-2.2202 + 2.3922\*log(dbh) | (Finzi et al. 2020) |
| *Alnus incana* | bm = (33.722\*(dbh^2.712))/1000 | (Connolly 1981) |
| *Amelanchier laevis* | bm = (71.534\*(dbh^2.391))/1000 | (Roussopoulos and Loomis 1979) |
| *Aronia melanocarpa* | log(bm) = -2.2118 + 2.4133\*log(dbh) | (Chojnacky et al. 2014); hardwoods, Rosaceae |
| *Betula alleghaniensis* | log(bm)=-1.542 + 2.260\*log(dbh) | (Finzi et al. 2020) |
| *Betula lenta* | bm = 0.0629\*(dbh^2.6606) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Betula papyrifera* | log(bm)=-3.082 + 2.683\*log(dbh) | (Finzi et al. 2020) |
| *Betula populifolia* | log(bm)=-1.835 + 2.309\*log(dbh) | (Finzi et al. 2020) |
| *Betula* spp*.* | bm = 0.0629\*(dbh^2.6606) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Castanea dentata* | log (bm) = -1.881 + 2.386\*log(dbh) | Finzi et al. 2020; equation for red oak |
| *Crataegus* spp*.* | ln(bm)=(3.6834+2.3405\*ln(dbh))/1000 | (Dickinson and Zenner 2010)  |
| unknown hardwood | log(bm) = -2.48 + 2.4835\*log(dbh) | (Jenkins et al. 2004); General hardwood  |
| *Fagus grandifolia* | log(bm)=-1.342 + 2.231\*log(dbh) | (Finzi et al. 2020) |
| *Frangula alnus* | bm = ((30.971\*(dbh^2.764))/1000 | (Grigal and Ohmann 1977) |
| *Fraxinus americana* | log(bm)=-1.381 + 2.208\*log(dbh) | (Finzi et al. 2020) |
| *Fraxinus nigra* | bm=0.1634\*(dbh^2.3480) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Hamamelis virginiana* | bm = (38.111\*(dbh^2.900))/1000 | (Smith and Brand 1983) after (Telfer 1969) |
| *Ilex laevigata* | bm = (53.497\*(dbh^3.340))/1000 | (Smith and Brand 1983) after (Telfer 1969) |
| *Ilex mucronata* | bm = (31.532\*(dbh^2.819))/1000 | (Smith and Brand 1983) after (Telfer 1969) |
| *Juniperus communis* | bm = (59.205\*(dbh^2.202))/1000 | (Brown 1976) |
| *Kalmia latifolia* | bm =.2036\*(dbh^1.9162) | (Brantley et al. 2016) |
| *Larix laricina* | bm = 0.1265\*(dbh^2.2453) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Lindera benzoin* | log(bm) = -2.2118 + 2.4133\*log(dbh) | Choznacky et al. 2014; equation Laurelaceae |
| *Lyonia ligustrina* | ln(bm)=(3.6685+1.8205\*ln(dbh))/1000 | (Dickinson and Zenner 2010) |
| *Nyssa sylvatica* | log(bm) = -2.48 + 2.4835\*log(dbh) | (Jenkins et al. 2004); General hardwood  |
| *Ostrya virginiana* | log(bm) = -2.48 + 2.4835\*log(dbh) | (Jenkins et al. 2004); General hardwood  |
| *Picea abies* | log(bm)=-2.621 + 2.456\*log(dbh) | (Finzi et al. 2020) |
| *Picea rubens* | log(bm)=-2.621 + 2.456\*log(dbh) | (Finzi et al. 2020) |
| *Picea* spp*.* | log(bm)=-2.621 + 2.456\*log(dbh) | (Finzi et al. 2020) |
| *Pinus resinosa* | log(bm)=-2.076 + 2.317\*log(dbh) | (Finzi et al. 2020) |
| *Pinus strobus* | log(bm)=-3.293 + 2.603\*log(dbh) | (Finzi et al. 2020) |
| *Pinus* unknown | log(bm)=-2.076 + 2.317\*log(dbh) | (Finzi et al. 2020) |
| *Populus grandidentata* | bm = 0.0785\*(dbh^2.4981) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Populus tremuloides* | bm = 0.0637\*(dbh^2.6087) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Prunus pensylvanica* | bm = 0.9758\*(dbh^2.1948) | (Young et al. 1980) |
| *Prunus serotina* | bm = 0.0716\*(dbh^2.6174) | (Ter-Mikaelian and Korzukhin 1997)  |
| *Quercus alba* | log(bm)=-2.520 + 2.590\*log(dbh) | (Finzi et al. 2020) |
| *Quercus rubra* | log(bm)=-1.881 + 2.386\*log(dbh) | (Finzi et al. 2020) |
| *Quercus velutina* | log(bm)=-2.821 + 2.659\*log(dbh) | (Finzi et al. 2020) |
| *Quercus unknown* | log(bm)=-1.881 + 2.386\*log(dbh) | (Finzi et al. 2020) |
| *Rhododendron prinophyllum* | ln(bm)=(3.8799+2.3936\*ln(dbh))/1000 | (Dickinson and Zenner 2010); *Viburnum* spp. |
| *Salix* species | bm = (60.153\*(dbh^2.202))/1000 | (Connolly 1981) |
| *Sambucus racemosa* | ln(bm)=(3.8799+2.3936\*ln(dbh))/1000 | (Dickinson and Zenner 2010);*Viburnum* spp. |
| *Sorbus americana* | bm = (44.394\*(dbh^3.253))/1000 | (Roussopoulos and Loomis 1979) |
| *Toxicodendron radicans* | bm = (62.134\*(dbh^2.460))/1000 | (Roussopoulos and Loomis 1979);avg. shrub  |
| *Toxicodendron vernix* | bm = (62.134\*(dbh^2.460))/1000 | (Roussopoulos and Loomis 1979);avg. shrub  |
| *Tsuga canadensis* | log(bm)=-2.2712 + 2.3444\*log(dbh) | (Finzi et al. 2020) |
| *Ulmus americana* | bm = 0.0825\*(dbh^2.468) | (Perala and Alban 1994) |
| Unidentified unknown | bm = 0.45\*(exp(0.955+2.426\*log(dbh/2.54))) | (Wartluft 1977) |
| *Vaccinium corymbosum* | ln(bm)=(3.6685+1.8205\*ln(dbh))/1000 | (Dickinson and Zenner 2010) |
| *Viburnum acerfolium* | ln(bm)=(3.8799+2.3936\*ln(dbh))/1000 | (Dickinson and Zenner 2010) |
| *Viburnum alnifolium* | bm = (29.615\*(dbh^3.243))/1000 | (Smith and Brand 1983) after (Telfer 1969) |
| *Viburnum cassinoides* | ln(bm)=(3.8799+2.3936\*ln(dbh))/1000 | (Dickinson and Zenner 2010) |
| *Viburnum dentatum* | ln(bm)=(3.8799+2.3936\*ln(dbh))/1000 | (Dickinson and Zenner 2010) |

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