

| Table 4. -- Species key, suggested assignments for species groups to apply generalized equations, and specific gravity information (see Appendix A) | | | | | | | | | |
|---|------------------------|--------------|----------------------|---|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| FIA ID | Common name | Family | Genus | Species | Species group | Wood specific gravity | Bark specific gravity | Bark specific gravity source | Stump volume equation |
| 0 | conifers (general) | | | | | | | | |
| 10 | fir spp. | Pinaceae | <i>Abies</i> | <i>spp.</i> | tf | 0.357 | 0.375 | | 94 |
| 11 | Pacific silver fir | Pinaceae | <i>Abies</i> | <i>amabilis</i> | tf | 0.4 | | | |
| 12 | balsam fir | Pinaceae | <i>Abies</i> | <i>balsamea</i> | tf | 0.34 | 0.375 | 94 | 12 |
| 13 | silver fir (Himalaya) | Pinaceae | <i>Abies</i> | <i>pindrow</i> | tf | | | | |
| 14 | Bristlecone fir | Pinaceae | <i>Abies</i> | <i>bracteata</i> | tf | | | | |
| 15 | White fir | Pinaceae | <i>Abies</i> | <i>concolor</i> | tf | 0.37 | | | |
| 16 | Fraser fir | Pinaceae | <i>Abies</i> | <i>fraseri</i> | tf | 0.34 | 0.4 | | 12 |
| 17 | Grand fir | Pinaceae | <i>Abies</i> | <i>grandis</i> | tf | 0.35 | | | |
| 18 | Corkbark fir | Pinaceae | <i>Abies</i> | <i>lasiocarpa</i> var. <i>arizonica</i> | tf | 0.28 | | | |
| 19 | Subalpine fir | Pinaceae | <i>Abies</i> | <i>lasiocarpa</i> | tf | 0.31 | | | |
| 20 | California red fir | Pinaceae | <i>Abies</i> | <i>magnifica</i> | tf | 0.37 | | | |
| 21 | Shasta red fir | Pinaceae | <i>Abies</i> | <i>magnifica</i> var. <i>shastensis</i> | tf | 0.37 | | | |
| 22 | Noble fir | Pinaceae | <i>Abies</i> | <i>procera</i> | tf | 0.37 | | | |
| 41 | Port-Orford-cedar | Pinaceae | <i>Chamaecyparis</i> | <i>lawsoniana</i> | cl | 0.39 | | | |
| 42 | Alaska-cedar | Pinaceae | <i>Chamaecyparis</i> | <i>nootkatensis</i> | cl | 0.42 | | | |
| 43 | Atlantic white-cedar | Pinaceae | <i>Chamaecyparis</i> | <i>thyoides</i> | cl | 0.31 | 0.4 | | 241 |
| 50 | Cypress | Cupressaceae | <i>Cupressus</i> | <i>spp.</i> | wo | | | | |
| 51 | Arizona cypress | Cupressaceae | <i>Cupressus</i> | <i>arizonica</i> | wo | | | | |
| 58 | Pinchot juniper | Cupressaceae | <i>Juniperus</i> | <i>pinchotti</i> | wo | | | | |
| 59 | Redberry juniper | Cupressaceae | <i>Juniperus</i> | <i>erythrocarpa</i> | wo | | | | |
| 60 | Common juniper | Cupressaceae | <i>Juniperus</i> | <i>communis</i> | wo | 0.44 | 0.4 | | 94 |
| 60 | redcedar | Cupressaceae | <i>Juniperus</i> | <i>spp.</i> | cl | 0.44 | 0.4 | | 241 |
| 62 | California juniper | Cupressaceae | <i>Juniperus</i> | <i>californica</i> | wo | | | | |
| 63 | Alligator juniper | Cupressaceae | <i>Juniperus</i> | <i>depeana</i> | wo | 0.48 | | | |
| 64 | Western juniper | Cupressaceae | <i>Juniperus</i> | <i>occidentalis</i> | wo | | | | |
| 65 | Utah juniper | Cupressaceae | <i>Juniperus</i> | <i>osteosperma</i> | wo | | | | |
| 66 | Rocky Mountain juniper | Cupressaceae | <i>Juniperus</i> | <i>scopulorum</i> | wo | 0.44 | 0.4 | | 94 |
| 67 | southern redcedar | Cupressaceae | <i>Juniperus</i> | <i>silicicola</i> | cl | 0.44 | 0.4 | | 241 |
| 68 | eastern redcedar | Cupressaceae | <i>Juniperus</i> | <i>virginiana</i> | cl | 0.44 | 0.4 | | 241 |
| 69 | Oneseed juniper | Cupressaceae | <i>Juniperus</i> | <i>monosperma</i> | wo | | | | |
| 70 | larch (introduced) | Pinaceae | <i>Larix</i> | <i>spp.</i> | cl | 0.48 | 0.4 | | 125 |
| 71 | tamarack (native) | Pinaceae | <i>Larix</i> | <i>laricina</i> | cl | 0.49 | 0.4 | | 125 |
| 72 | Subalpine larch | Pinaceae | <i>Larix</i> | <i>lyallii</i> | cl | 0.48 | | | |
| 73 | Western larch | Pinaceae | <i>Larix</i> | <i>occidentalis</i> | cl | 0.48 | | | |
| 81 | Incense-cedar | Cupressaceae | <i>Calocedrus</i> | <i>decurrens</i> | cl | 0.35 | | | |
| 90 | spruce | Pinaceae | <i>Picea</i> | <i>spp.</i> | sp | 0.366 | 0.3 | | 94 |
| 91 | Norway spruce | Pinaceae | <i>Picea</i> | <i>abies</i> | sp | 0.38 | 0.4 | | 94 |
| 92 | Brewer spruce | Pinaceae | <i>Picea</i> | <i>breweriana</i> | sp | | | | |
| 93 | Engelmann spruce | Pinaceae | <i>Picea</i> | <i>engelmannii</i> | sp | 0.33 | 0.4 | | 94 |
| 94 | white spruce | Pinaceae | <i>Picea</i> | <i>glauca</i> | sp | 0.37 | 0.29 | 46 | 94 |
| 95 | black spruce | Pinaceae | <i>Picea</i> | <i>mariana</i> | sp | 0.38 | 0.351 | 94 | 95 |
| 96 | blue spruce | Pinaceae | <i>Picea</i> | <i>pungens</i> | sp | 0.38 | 0.4 | | 94 |
| 97 | red spruce | Pinaceae | <i>Picea</i> | <i>rubens</i> | sp | 0.38 | 0.32 | | 94 |
| 98 | Sitka spruce | Pinaceae | <i>Picea</i> | <i>sitchensis</i> | sp | 0.37 | | | |
| 100 | pine spp. | Pinaceae | <i>Pinus</i> | <i>spp.</i> | pi | | | | |
| 101 | Whitebark pine | Pinaceae | <i>Pinus</i> | <i>albicaulis</i> | pi | | | | |
| 102 | Bristlecone pine | Pinaceae | <i>Pinus</i> | <i>aristata</i> | pi | | | | |
| 103 | Knobcone pine | Pinaceae | <i>Pinus</i> | <i>attenuata</i> | pi | | | | |
| 104 | Foxtail pine | Pinaceae | <i>Pinus</i> | <i>balfouriana</i> | pi | | | | |
| 105 | jack pine | Pinaceae | <i>Pinus</i> | <i>banksiana</i> | pi | 0.4 | 0.34 | 94 | 105 |
| 106 | Twoneedle pinyon | Pinaceae | <i>Pinus</i> | <i>edulis</i> | pi | | | | |
| 107 | sand pine | Pinaceae | <i>Pinus</i> | <i>clausa</i> | pi | 0.46 | 0.45 | | 125 |
| 108 | Lodgepole pine | Pinaceae | <i>Pinus</i> | <i>contorta</i> | pi | 0.38 | | | |

| FIA ID | Common name | Family | Genus | Species | Species group | Wood specific gravity | Bark specific gravity | Bark specific gravity source | Stump volume equation |
|--------|--------------------------|----------------|-----------------------|----------------------------------|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| 109 | Coulter pine | Pinaceae | <i>Pinus</i> | <i>coulteri</i> | pi | | | | |
| 110 | shortleaf pine | Pinaceae | <i>Pinus</i> | <i>echinata</i> | pi | 0.47 | 0.45 | | 125 |
| 111 | slash pine | Pinaceae | <i>Pinus</i> | <i>elliottii</i> | pi | 0.54 | 0.45 | | 125 |
| 112 | Apache pine | Pinaceae | <i>Pinus</i> | <i>engelmannii</i> | pi | | | | |
| 113 | Limber pine | Pinaceae | <i>Pinus</i> | <i>flexilis</i> | pi | 0.37 | | | |
| 114 | Southwestern white pine | Pinaceae | <i>Pinus</i> | <i>strobiformis</i> | pi | | | | |
| 115 | spruce pine | Pinaceae | <i>Pinus</i> | <i>glabra</i> | pi | 0.41 | 0.45 | | 125 |
| 116 | Jeffrey pine | Pinaceae | <i>Pinus</i> | <i>jeffreyi</i> | pi | 0.37 | | | |
| 117 | Sugar pine | Pinaceae | <i>Pinus</i> | <i>lambertiana</i> | pi | 0.34 | | | |
| 118 | Chihuahuan pine | Pinaceae | <i>Pinus</i> | <i>leiophylla</i> | pi | | | | |
| 119 | Western white pine | Pinaceae | <i>Pinus</i> | <i>monticola</i> | pi | 0.35 | | | |
| 120 | Bishop pine | Pinaceae | <i>Pinus</i> | <i>muricata</i> | pi | | | | |
| 121 | longleaf pine | Pinaceae | <i>Pinus</i> | <i>palustris</i> | pi | 0.54 | 0.45 | | 125 |
| 122 | ponderosa pine | Pinaceae | <i>Pinus</i> | <i>ponderosa</i> | pi | 0.38 | 0.4 | | 125 |
| 123 | Table Mountain pine | Pinaceae | <i>Pinus</i> | <i>pungens</i> | pi | 0.49 | 0.45 | | 125 |
| 124 | Monterey pine | Pinaceae | <i>Pinus</i> | <i>radiata</i> | pi | | | | |
| 125 | red pine | Pinaceae | <i>Pinus</i> | <i>resinosa</i> | pi | 0.41 | 0.243 | | 125 |
| 126 | pitch pine | Pinaceae | <i>Pinus</i> | <i>rigida</i> | pi | 0.47 | 0.45 | | 125 |
| 127 | California foothill pine | Pinaceae | <i>Pinus</i> | <i>sabiniana</i> | pi | | | | |
| 128 | pond pine | Pinaceae | <i>Pinus</i> | <i>serotina</i> | pi | 0.51 | 0.45 | | 125 |
| 129 | eastern white pine | Pinaceae | <i>Pinus</i> | <i>strobus</i> | pi | 0.34 | 0.34 | | 129 |
| 130 | Scotch pine | Pinaceae | <i>Pinus</i> | <i>sylvestris</i> | pi | 0.41 | 0.45 | | 125 |
| 131 | loblolly pine | Pinaceae | <i>Pinus</i> | <i>taeda</i> | pi | 0.47 | 0.45 | | 125 |
| 132 | Virginia pine | Pinaceae | <i>Pinus</i> | <i>virginiana</i> | pi | 0.45 | 0.45 | | 125 |
| 133 | Singleleaf pinyon | Pinaceae | <i>Pinus</i> | <i>monophylla</i> | pi | 0.41 | 0.4 | | 94 |
| 133 | Austrian pine | Pinaceae | <i>Pinus</i> | <i>nigra</i> | pi | 0.41 | 0.4 | | 125 |
| 134 | Border pinyon | Pinaceae | <i>Pinus</i> | <i>discolor</i> | pi | | | | |
| 135 | Arizona pine | Pinaceae | <i>Pinus</i> | <i>arizonica</i> | pi | | | | |
| 136 | Border pinyon | Pinaceae | <i>Pinus</i> | <i>cembroides</i> | pi | | | | |
| 145 | Roxburg pine | Pinaceae | <i>Pinus</i> | <i>roxburghii (Himalayas)</i> | pi | | | | |
| 201 | Bigcone Douglas-fir | Pinaceae | <i>Pseudotsuga</i> | <i>macrocarpa</i> | df | | | | |
| 202 | Douglas-fir | Pinaceae | <i>Pseudotsuga</i> | <i>menziesii</i> | df | 0.45 | 0.4 | | 94 |
| 211 | Redwood | Taxodiaceae | <i>Sequoia</i> | <i>sempervirens</i> | cl | 0.36 | | | |
| 212 | Giant sequoia | Taxodiaceae | <i>Sequoiadendron</i> | <i>giganteum</i> | cl | | | | |
| 221 | baldcypress | Cupressaceae | <i>Taxodium</i> | <i>distichum</i> | cl | 0.42 | 0.42 | | 241 |
| 222 | pondcypress | Cupressaceae | <i>Taxodium</i> | <i>distichum var. nutans</i> | cl | | | | |
| 231 | Pacific yew | Taxaceae | <i>Taxus</i> | <i>brevifolia</i> | tf | 0.6 | | | |
| 241 | northern white-cedar | Cupressaceae | <i>Thuja</i> | <i>occidentalis</i> | cl | 0.29 | 0.29 | | 241 |
| 242 | Western redcedar | Cupressaceae | <i>Thuja</i> | <i>plicata</i> | cl | 0.31 | | | |
| 251 | California nutmeg | Taxaceae | <i>Torreya</i> | <i>californica</i> | tf | | | | |
| 260 | hemlock | Pinaceae | <i>Tsuga</i> | <i>spp.</i> | tf | 0.38 | 0.34 | | 261 |
| 261 | eastern hemlock | Pinaceae | <i>Tsuga</i> | <i>canadensis</i> | tf | 0.38 | 0.34 | | 261 |
| 262 | Carolina hemlock | Pinaceae | <i>Tsuga</i> | <i>caroliniana</i> | tf | 0.38 | 0.34 | | 261 |
| 263 | Western hemlock | Pinaceae | <i>Tsuga</i> | <i>heterophylla</i> | tf | 0.42 | | | |
| 264 | Mountain hemlock | Pinaceae | <i>Tsuga</i> | <i>mertensiana</i> | tf | 0.42 | | | |
| 290 | timber tree | Mimosaceae | <i>Albizia</i> | <i>falcataria (Hawaii)</i> | wo | | | | |
| 300 | acacia | various | <i>Acacia</i> | <i>spp.</i> | wo | 0.6 | 0.5 | | 316 |
| 302 | yellow paloverde | Caesalpinaceae | <i>Cercidium</i> | <i>microphyllum</i> | wo | | | | |
| 303 | Australian blackwood | Fabaceae | <i>Acacia</i> | <i>melanoxyton (Hawaii)</i> | wo | | | | |
| 304 | prickly acacia | Fabaceae | <i>Acacia</i> | <i>nilotica (India)</i> | wo | | | | |
| 305 | earleaf acacia | Leguminosae | <i>Acacia</i> | <i>auriculiformis (Thailand)</i> | wo | | | | |
| 306 | mangium | Fabaceae | <i>Acacia</i> | <i>mangium (Hawaii)</i> | wo | | | | |
| 307 | black wattle | Fabaceae | <i>Acacia</i> | <i>mearnsii (Hawaii)</i> | wo | | | | |
| 308 | willow acacia | Fabaceae | <i>Acacia</i> | <i>salicina</i> | wo | | | | |
| 309 | black cutch | Fabaceae | <i>Acacia</i> | <i>catechu (India)</i> | wo | | | | |

| FIA ID | Common name | Family | Genus | Species | Species group | Wood specific gravity | Bark specific gravity | Bark specific gravity source | Stump volume equation |
|--------|-------------------------------|------------------|--------------------|---|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| 310 | Australian pine | Casuarinaceae | <i>Casuarina</i> | <i>equisetifolia</i> (Hawaii) | wo | | | | |
| 311 | Florida maple | Aceraceae | <i>Acer</i> | <i>barbatum</i> | mb | 0.54 | 0.64 | | 318 |
| 312 | Bigleaf maple | Aceraceae | <i>Acer</i> | <i>macrophyllum</i> | mb | 0.44 | | | |
| 313 | boxelder | Aceraceae | <i>Acer</i> | <i>negundo</i> | mb | 0.44 | 0.5 | | 970 |
| 314 | black maple | Aceraceae | <i>Acer</i> | <i>nigrum</i> | mo | 0.52 | 0.64 | | 316 |
| 315 | striped maple | Aceraceae | <i>Acer</i> | <i>pensylvanicum</i> | mb | 0.44 | 0.45 | | 316 |
| 316 | red maple | Aceraceae | <i>Acer</i> | <i>rubrum</i> | mb | 0.49 | 0.5805 | 36 | 316 |
| 317 | silver maple | Aceraceae | <i>Acer</i> | <i>saccharinum</i> | mb | 0.44 | 0.58 | | 316 |
| 318 | sugar maple | Aceraceae | <i>Acer</i> | <i>saccharum</i> | mo | 0.56 | 0.635 | 93 | 318 |
| 319 | mountain maple | Aceraceae | <i>Acer</i> | <i>spicatum</i> | mb | 0.44 | 0.45 | | 316 |
| 321 | Rocky Mountain maple | Aceraceae | <i>Acer</i> | <i>glabrum</i> | wo | 0.44 | 0.45 | | 318 |
| 322 | Bigtooth maple | Aceraceae | <i>Acer</i> | <i>grandidentatum</i> | wo | | | | |
| 330 | buckeye, horsechestnut | Hippocastanaceae | <i>Aesculus</i> | <i>spp.</i> | mh | 0.33 | 0.5 | | 541 |
| 331 | Ohio buckeye | Hippocastanaceae | <i>Aesculus</i> | <i>glabra</i> | mh | 0.33 | 0.5 | | 541 |
| 332 | yellow buckeye | Hippocastanaceae | <i>Aesculus</i> | <i>octandra</i> | mh | 0.33 | 0.5 | | 541 |
| 333 | California buckeye | Hippocastanaceae | <i>Aesculus</i> | <i>californica</i> | mh | 0.33 | 0.5 | | 541 |
| 334 | Texas buckeye | Hippocastanaceae | <i>Aesculus</i> | <i>glabra</i> var. <i>arguta</i> | mh | | | | |
| 335 | horsechestnut | Hippocastanaceae | <i>Aesculus</i> | <i>indica</i> (Himalayas) | mh | | | | |
| 341 | ailanthus | Simaroubaceae | <i>Ailanthus</i> | <i>altissima</i> | mh | 0.33 | 0.45 | | 316 |
| 351 | red alder | Betulaceae | <i>Alnus</i> | <i>spp.</i> | aa | 0.37 | 0.4 | | 316 |
| 352 | White alder | Betulaceae | <i>Alnus</i> | <i>rhombifolia</i> | aa | | | | |
| 353 | sitka alder | Betulaceae | <i>Alnus</i> | <i>sinuata</i> | aa | | | | |
| 355 | serviceberry | Rosaceae | <i>Amelanchier</i> | <i>spp.</i> | mh | 0.66 | 0.45 | | 316 |
| 361 | Pacific madrone | Ericaceae | <i>Arbutus</i> | <i>menziesii</i> | mh | | | | |
| 367 | pawpaw | Annonaceae | <i>Asimina</i> | <i>triloba</i> | mh | 0.47 | 0.45 | | 316 |
| 370 | birch spp. | Betulaceae | <i>Betula</i> | <i>spp.</i> | mb | 0.54 | 0.5 | | 371 |
| 371 | yellow birch | Betulaceae | <i>Betula</i> | <i>alleghaniensis</i> | mb | 0.55 | 0.56 | | 371 |
| 372 | sweet birch | Betulaceae | <i>Betula</i> | <i>lenta</i> | mb | 0.6 | 0.67 | 36 | 371 |
| 373 | river birch | Betulaceae | <i>Betula</i> | <i>nigra</i> | mb | 0.56 | 0.5 | | 371 |
| 374 | water birch | Betulaceae | <i>Betula</i> | <i>occidentalis</i> | mb | 0.53 | 0.5 | | 371 |
| 375 | paper birch | Betulaceae | <i>Betula</i> | <i>papyrifera</i> | mb | 0.48 | 0.5 | | 375 |
| 376 | Western paper birch | Betulaceae | <i>Betula</i> | <i>papyrifera</i> var. <i>commutata</i> | mb | | | | |
| 379 | gray birch | Betulaceae | <i>Betula</i> | <i>populifolia</i> | mb | 0.45 | 0.5 | | 375 |
| 381 | chittamwood, gum bumelia | Sapotaceae | <i>Bumelia</i> | <i>lanuginosa</i> | mh | 0.47 | 0.45 | | 316 |
| 391 | American hornbeam, musclewood | Betulaceae | <i>Carpinus</i> | <i>caroliniana</i> | mh | 0.58 | 0.45 | | 316 |
| 395 | lead tree | Fabaceae | <i>Leucaena</i> | <i>leucocephala</i> (Thailand) | mh | | | | |
| 400 | hickory spp. | Juglandaceae | <i>Carya</i> | <i>spp.</i> | mo | 0.62 | 0.5355 | 36 | 951 |
| 401 | water hickory | Juglandaceae | <i>Carya</i> | <i>aquatica</i> | mo | 0.61 | 0.54 | | 951 |
| 402 | bitternut hickory | Juglandaceae | <i>Carya</i> | <i>cordiformis</i> | mo | 0.6 | 0.54 | | 951 |
| 403 | pignut hickory | Juglandaceae | <i>Carya</i> | <i>glabra</i> | mo | 0.66 | 0.54 | | 951 |
| 404 | pecan | Juglandaceae | <i>Carya</i> | <i>illinoensis</i> | mo | 0.6 | 0.54 | | 951 |
| 405 | shellbark hickory | Juglandaceae | <i>Carya</i> | <i>laciniosa</i> | mo | 0.62 | 0.54 | | 951 |
| 407 | shagbark hickory | Juglandaceae | <i>Carya</i> | <i>ovata</i> | mo | 0.64 | 0.54 | | 951 |
| 408 | black hickory | Juglandaceae | <i>Carya</i> | <i>texana</i> | mo | 0.54 | 0.54 | | 951 |
| 409 | mockernut hickory | Juglandaceae | <i>Carya</i> | <i>tomentosa</i> | mo | 0.64 | 0.54 | | 951 |
| 421 | American chestnut | Fagaceae | <i>Castanea</i> | <i>dentata</i> | mh | 0.4 | 0.5 | | 316 |
| 422 | Allegheny chinkapin | Fagaceae | <i>Castanea</i> | <i>pumila</i> | mh | 0.4 | 0.5 | | 316 |
| 423 | Ozark chinkapin | Fagaceae | <i>Castanea</i> | <i>ozarkensis</i> | mh | 0.4 | 0.5 | | 970 |
| 430 | chinkapin | Fagaceae | <i>Castanopsis</i> | <i>spp.</i> | mh | 0.42 | 0.45 | | 316 |
| 431 | Golden chinkapin | Fagaceae | <i>Castanopsis</i> | <i>chrysophylla</i> | mh | | | | |
| 450 | catalpa | Bignoniaceae | <i>Catalpa</i> | <i>spp.</i> | mh | 0.38 | 0.5 | | 740 |
| 451 | southern catalpa | Bignoniaceae | <i>Catalpa</i> | <i>bignonioides</i> | mh | 0.38 | 0.45 | | 316 |
| 452 | northern catalpa | Bignoniaceae | <i>Catalpa</i> | <i>speciosa</i> | mh | 0.38 | 0.5 | | 740 |
| 460 | hackberry spp. | Ulmaceae | <i>Celtis</i> | <i>spp.</i> | mh | 0.49 | 0.5 | | 371 |
| 461 | sugarberry | Ulmaceae | <i>Celtis</i> | <i>laevigata</i> | mh | 0.47 | 0.5 | | 371 |

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|--------|-------------------------------|----------------|---------------------|-------------------------------|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| 462 | hackberry | Ulmaceae | <i>Celtis</i> | <i>occidentalis</i> | mh | 0.49 | 0.5 | | 371 |
| 471 | eastern redbud | Leguminosae | <i>Ceriss</i> | <i>canadensis</i> | mh | 0.58 | 0.5 | | 316 |
| 475 | Curlleaf mountain-mahogany | Rosaceae | <i>Cercocarpus</i> | <i>ledifolius</i> | wo | | | | |
| 476 | True mountain-mahogany | Rosaceae | <i>Cercocarpus</i> | <i>montanus</i> | wo | | | | |
| 477 | Hairy mountain-mahogany | Rosaceae | <i>Cercocarpus</i> | <i>montanus var. pauciden</i> | wo | | | | |
| 478 | Birchleaf mountain-mahogany | Rosaceae | <i>Cercocarpus</i> | <i>montanus var. glaber</i> | wo | | | | |
| 479 | Littleleaf mountain-mahogany | Rosaceae | <i>Cercocarpus</i> | <i>intricatus</i> | wo | | | | |
| 491 | flowering dogwood | Cornaceae | <i>Cornus</i> | <i>florida</i> | mh | 0.64 | 0.5 | | 316 |
| 492 | Pacific dogwood | Cornaceae | <i>Cornus</i> | <i>nuttallii</i> | mh | 0.58 | | | |
| 500 | hawthorn | Rosaceae | <i>Crataegus</i> | <i>spp.</i> | mh | 0.62 | 0.45 | | 316 |
| 510 | Eucalyptus | Myrtaceae | <i>Eucalyptus</i> | <i>spp.</i> | mh | | | | |
| 511 | rose gum | Myrtaceae | <i>Eucalyptus</i> | <i>grandis (Hawaii)</i> | mh | | | | |
| 512 | swamp mahogany | Myrtaceae | <i>Eucalyptus</i> | <i>robusta (Hawaii)</i> | mh | | | | |
| 513 | sydney blue eucalyptus | Myrtaceae | <i>Eucalyptus</i> | <i>saligna (Hawaii)</i> | mh | | | | |
| 514 | flat-topped yate | Myrtaceae | <i>Eucalyptus</i> | <i>occidentalis</i> | mh | | | | |
| 515 | Tasmanian blue gum | Myrtaceae | <i>Eucalyptus</i> | <i>globulus (Hawaii)</i> | mh | | | | |
| 516 | Timor mountain gum | Myrtaceae | <i>Eucalyptus</i> | <i>urophylla (Hawaii)</i> | mh | | | | |
| 521 | common persimmon | Ebenaceae | <i>Diospyros</i> | <i>virginiana</i> | mh | 0.64 | 0.5 | | 316 |
| 531 | American beech | Fagaceae | <i>Fagus</i> | <i>grandifolia</i> | mo | 0.56 | 0.5 | | 531 |
| 540 | ash | Oleaceae | <i>Fraxinus</i> | <i>spp.</i> | mh | 0.51 | 0.65 | 28 | 541 |
| 541 | white ash | Oleaceae | <i>Fraxinus</i> | <i>americana</i> | mh | 0.55 | 0.3855 | 36 | 541 |
| 542 | Oregon ash | Oleaceae | <i>Fraxinus</i> | <i>latifolia</i> | mh | 0.5 | | | |
| 543 | black ash | Oleaceae | <i>Fraxinus</i> | <i>nigra</i> | mh | 0.45 | 0.39 | | 543 |
| 544 | green ash | Oleaceae | <i>Fraxinus</i> | <i>pennsylvanica</i> | mh | 0.53 | 0.407 | 33 | 541 |
| 545 | pumpkin ash | Oleaceae | <i>Fraxinus</i> | <i>profunda</i> | mh | 0.48 | 0.39 | | 541 |
| 546 | blue ash | Oleaceae | <i>Fraxinus</i> | <i>quadranulata</i> | mh | 0.53 | 0.39 | | 541 |
| 551 | waterlocust | Leguminosae | <i>Gleditsia</i> | <i>aquatica</i> | mh | 0.6 | 0.5 | | 316 |
| 552 | honeylocust | Leguminosae | <i>Gleditsia</i> | <i>triacanthos</i> | mh | 0.6 | 0.5 | | 316 |
| 555 | loblolly-bay | Theaceae | <i>Gordonia</i> | <i>lasianthus</i> | mh | 0.37 | 0.5 | | 951 |
| 571 | Kentucky coffeetree | Leguminosae | <i>Gymnocladus</i> | <i>dioicus</i> | mh | 0.5 | 0.5 | | 316 |
| 580 | silverbell | Styracaceae | <i>Halesia</i> | <i>spp.</i> | mh | 0.42 | 0.5 | | |
| 591 | American holly | Aquifoliaceae | <i>Ilex</i> | <i>opaca</i> | mh | 0.5 | 0.5 | | 316 |
| 600 | Walnut | Juglandaceae | <i>Juglans</i> | <i>spp.</i> | mh | 0.51 | | | |
| 601 | butternut | Juglandaceae | <i>Juglans</i> | <i>cinerea</i> | mh | 0.36 | 0.5 | | 531 |
| 602 | black walnut | Juglandaceae | <i>Juglans</i> | <i>nigra</i> | mh | 0.51 | 0.5 | | 951 |
| 606 | walnut | Juglandaceae | <i>Juglans</i> | <i>regia (Himalayas)</i> | mh | | | | |
| 611 | sweetgum | Hamamelidaceae | <i>Liquidambar</i> | <i>styraciflua</i> | mh | 0.46 | 0.3903 | 35 | 951 |
| 621 | yellow-poplar | Magnoliaceae | <i>Liriodendron</i> | <i>tulipifera</i> | mh | 0.4 | 0.364 | 36 | 746 |
| 631 | Tanoak | Fagaceae | <i>Lithocarpus</i> | <i>densiflorus</i> | mh | | | | |
| 641 | Osage-orange | Moraceae | <i>Maclura</i> | <i>pomifera</i> | mh | 0.76 | 0.45 | | 316 |
| 650 | magnolia spp. | Magnoliaceae | <i>Magnolia</i> | <i>spp.</i> | mh | 0.43 | 0.5 | | 951 |
| 651 | cucumbertree | Magnoliaceae | <i>Magnolia</i> | <i>acuminata</i> | mh | 0.44 | 0.5 | | 951 |
| 652 | southern magnolia | Magnoliaceae | <i>Magnolia</i> | <i>grandiflora</i> | mh | 0.46 | 0.46 | | 951 |
| 653 | sweetbay | Magnoliaceae | <i>Magnolia</i> | <i>virginiana</i> | mh | 0.45 | 0.5 | | 951 |
| 654 | bigleaf magnolia | Magnoliaceae | <i>Magnolia</i> | <i>macrophylla</i> | mh | 0.45 | 0.45 | | 951 |
| 660 | Apple | Rosaceae | <i>Malus</i> | <i>spp.</i> | mh | 0.61 | 0.45 | | 316 |
| 680 | mulberry spp. | Moraceae | <i>Morus</i> | <i>spp.</i> | mh | 0.59 | 0.5 | | 371 |
| 681 | white mulberry | Moraceae | <i>Morus</i> | <i>alba</i> | mh | 0.59 | 0.5 | | 371 |
| 682 | red mulberry | Moraceae | <i>Morus</i> | <i>rubra</i> | mh | 0.59 | 0.5 | | 316 |
| 691 | water tupelo | Nyssaceae | <i>Nyssa</i> | <i>aquatica</i> | mh | 0.46 | 0.3483 | 33 | 951 |
| 692 | ogeechee tupelo | Nyssaceae | <i>Nyssa</i> | <i>ogeche</i> | mh | 0.46 | 0.45 | | 316 |
| 693 | blackgum | Nyssaceae | <i>Nyssa</i> | <i>sylvatica</i> | mh | 0.46 | 0.4465 | 36 | 951 |
| 694 | swamp tupelo | Nyssaceae | <i>Nyssa</i> | <i>sylvatica var. biflora</i> | mh | 0.46 | 0.35 | | 951 |
| 701 | eastern hophornbeam, ironwood | Betulaceae | <i>Ostrya</i> | <i>virginiana</i> | mh | 0.63 | 0.45 | | 316 |
| 711 | sourwood | Ericaceae | <i>Oxydendrum</i> | <i>arboreum</i> | mh | 0.5 | 0.45 | | 316 |

| FIA ID | Common name | Family | Genus | Species | Species group | Wood specific gravity | Bark specific gravity | Bark specific gravity source | Stump volume equation |
|--------|----------------------------------|--------------|------------------|-----------------------------------|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| 712 | Paulownia, Empress tree | Bignoniaceae | <i>Paulownia</i> | <i>tomentosa</i> | mh | 0.38 | 0.5 | | 316 |
| 721 | redbay | Lauraceae | <i>Persea</i> | <i>borbonia</i> | mh | 0.51 | 0.5 | | 371 |
| 730 | California sycamore | Platanaceae | <i>Platanus</i> | <i>racemosa</i> | mh | 0.36 | | | |
| 731 | sycamore | Platanaceae | <i>Platanus</i> | <i>occidentalis</i> | mh | 0.46 | 0.5177 | 34 | 531 |
| 740 | cottonwood | Salicaceae | <i>Populus</i> | <i>spp.</i> | aa | 0.37 | 0.452 | | 740 |
| 741 | balsam poplar | Salicaceae | <i>Populus</i> | <i>balsamifera</i> | aa | 0.31 | 0.452 | | 740 |
| 742 | eastern cottonwood | Salicaceae | <i>Populus</i> | <i>deltoides</i> | aa | 0.37 | 0.452 | | 740 |
| 743 | bigtooth aspen | Salicaceae | <i>Populus</i> | <i>grandidentata</i> | aa | 0.36 | 0.452 | | 743 |
| 744 | swamp cottonwood | Salicaceae | <i>Populus</i> | <i>heterophylla</i> | aa | 0.37 | 0.452 | | 740 |
| 745 | plains cottonwood | Salicaceae | <i>Populus</i> | <i>sargentii</i> | aa | 0.37 | 0.452 | | 740 |
| 746 | quaking aspen | Salicaceae | <i>Populus</i> | <i>tremuloides</i> | aa | 0.35 | 0.452 | 94 | 746 |
| 747 | Black cottonwood | Salicaceae | <i>Populus</i> | <i>balsamifera ssp. Trichocar</i> | aa | 0.31 | | | |
| 748 | Fremont cottonwood | Salicaceae | <i>Populus</i> | <i>fremontii</i> | aa | | | | |
| 752 | silver poplar | Salicaceae | <i>Populus</i> | <i>alba</i> | aa | 0.37 | 0.452 | | 746 |
| 753 | Narrowleaf cottonwood | Salicaceae | <i>Populus</i> | <i>angustifolia</i> | aa | 0.37 | 0.452 | | 740 |
| 760 | cherry, plum spp. | Rosaceae | <i>Prunus</i> | <i>spp.</i> | mh | 0.47 | 0.45 | | 316 |
| 761 | pin cherry | Rosaceae | <i>Prunus</i> | <i>pensylvanica</i> | mh | 0.36 | 0.45 | | 316 |
| 762 | black cherry | Rosaceae | <i>Prunus</i> | <i>serotina</i> | mh | 0.47 | 0.5925 | 145 | 375 |
| 763 | chokecherry | Rosaceae | <i>Prunus</i> | <i>virginiana</i> | mh | 0.36 | 0.45 | | 316 |
| 764 | Bitter cherry | Rosaceae | <i>Prunus</i> | <i>emarginata</i> | wo | 0.47 | 0.45 | | 316 |
| 764 | plums, cherries, except 762 | Rosaceae | <i>Prunus</i> | <i>spp.</i> | mh | 0.47 | 0.45 | | 316 |
| 765 | Canada plum | Rosaceae | <i>Prunus</i> | <i>nigra</i> | mh | 0.47 | 0.45 | | 316 |
| 766 | wild plum | Rosaceae | <i>Prunus</i> | <i>americana</i> | mh | 0.47 | 0.45 | | 740 |
| 800 | Oak-deciduous (woodland species) | Fagaceae | <i>Quercus</i> | <i>spp.</i> | wo | | | | |
| 801 | California live oak | Fagaceae | <i>Quercus</i> | <i>agrifolia</i> | mo | | | | |
| 802 | white oak | Fagaceae | <i>Quercus</i> | <i>alba</i> | mo | 0.6 | 0.513 | 36 | 802 |
| 803 | Arizona white oak, Gray oak | Fagaceae | <i>Quercus</i> | <i>arizonica, grisea</i> | wo | | | | |
| 804 | swamp white oak | Fagaceae | <i>Quercus</i> | <i>bicolor</i> | mo | 0.64 | 0.513 | | 802 |
| 805 | Canyon live oak | Fagaceae | <i>Quercus</i> | <i>chrysolepis</i> | mo | 0.7 | | | |
| 806 | scarlet oak | Fagaceae | <i>Quercus</i> | <i>coccinea</i> | mo | 0.6 | 0.6357 | 36 | 833 |
| 807 | Blue oak | Fagaceae | <i>Quercus</i> | <i>douglasii</i> | mo | | | | |
| 808 | Durand oak | Fagaceae | <i>Quercus</i> | <i>durandii</i> | mo | 0.6 | 0.513 | | 802 |
| 809 | northern pin oak | Fagaceae | <i>Quercus</i> | <i>ellipsoidalis</i> | mo | 0.58 | 0.6 | | 802 |
| 810 | Emory oak | Fagaceae | <i>Quercus</i> | <i>emoryi</i> | wo | | | | |
| 811 | Engelmann oak | Fagaceae | <i>Quercus</i> | <i>engelmannii</i> | mo | | | | |
| 812 | southern red oak | Fagaceae | <i>Quercus</i> | <i>falcata var. falcata</i> | mo | 0.52 | 0.6465 | 35 | 833 |
| 813 | cherrybark oak, swamp red oak | Fagaceae | <i>Quercus</i> | <i>falcata var. pagodaefolia</i> | mo | 0.61 | 0.629 | | 833 |
| 814 | Gambel oak | Fagaceae | <i>Quercus</i> | <i>gambellii</i> | wo | | | | |
| 815 | Oregon white oak | Fagaceae | <i>Quercus</i> | <i>garryana</i> | mo | 0.64 | | | |
| 816 | bear oak, scrub oak | Fagaceae | <i>Quercus</i> | <i>ilicifolia</i> | mo | 0.56 | 0.45 | | 833 |
| 817 | shingle oak | Fagaceae | <i>Quercus</i> | <i>imbricaria</i> | mo | 0.56 | 0.6 | | 802 |
| 818 | California black oak | Fagaceae | <i>Quercus</i> | <i>kelloggii</i> | mo | 0.51 | | | |
| 819 | turkey oak | Fagaceae | <i>Quercus</i> | <i>laevis</i> | mo | 0.52 | 0.45 | | 316 |
| 820 | laurel oak | Fagaceae | <i>Quercus</i> | <i>laurifolia</i> | mo | 0.56 | 0.635 | 33 | 833 |
| 821 | California white oak | Fagaceae | <i>Quercus</i> | <i>lobata</i> | mo | | | | |
| 822 | overcup oak | Fagaceae | <i>Quercus</i> | <i>lyrata</i> | mo | 0.57 | 0.51 | | 833 |
| 823 | bur oak | Fagaceae | <i>Quercus</i> | <i>macrocarpa</i> | mo | 0.58 | 0.513 | | 802 |
| 824 | blackjack oak | Fagaceae | <i>Quercus</i> | <i>marilandica</i> | mo | 0.56 | 0.6 | | 833 |
| 825 | swamp chestnut oak | Fagaceae | <i>Quercus</i> | <i>michauxii</i> | mo | 0.6 | 0.513 | | 802 |
| 826 | chinkapin oak | Fagaceae | <i>Quercus</i> | <i>muehlenbergii</i> | mo | 0.6 | 0.513 | | 802 |
| 827 | water oak | Fagaceae | <i>Quercus</i> | <i>nigra</i> | mo | 0.56 | 0.622 | 33 | 833 |
| 828 | Nuttall oak | Fagaceae | <i>Quercus</i> | <i>nuttalii</i> | mo | 0.56 | 0.6 | | 802 |
| 829 | Mexican blue oak | Fagaceae | <i>Quercus</i> | <i>oblongifolia</i> | wo | | | | |
| 830 | pin oak | Fagaceae | <i>Quercus</i> | <i>palustris</i> | mo | 0.58 | 0.6 | | 833 |
| 831 | willow oak | Fagaceae | <i>Quercus</i> | <i>phellos</i> | mo | 0.56 | 0.6 | | 802 |

| FIA ID | Common name | Family | Genus | Species | Species group | Wood specific gravity | Bark specific gravity | Bark specific gravity source | Stump volume equation |
|--------|---------------------------------|---------------|---------------------|---------------------------------------|---------------|-----------------------|-----------------------|------------------------------|-----------------------|
| 832 | chestnut oak | Fagaceae | <i>Quercus</i> | <i>prinus</i> | mo | 0.57 | 0.509 | 36 | 802 |
| 833 | northern red oak | Fagaceae | <i>Quercus</i> | <i>rubra</i> | mo | 0.56 | 0.629 | | 833 |
| 834 | Shumard oak | Fagaceae | <i>Quercus</i> | <i>shumardii</i> | mo | 0.56 | 0.629 | | 802 |
| 835 | post oak | Fagaceae | <i>Quercus</i> | <i>stellata</i> | mo | 0.6 | 0.5155 | 35 | 833 |
| 836 | Delta post oak | Fagaceae | <i>Quercus</i> | <i>stellata var. mississippiensis</i> | mo | 0.6 | 0.51 | | 833 |
| 837 | black oak | Fagaceae | <i>Quercus</i> | <i>velutina</i> | mo | 0.56 | 0.568 | 36 | 833 |
| 838 | live oak | Fagaceae | <i>Quercus</i> | <i>virginiana</i> | mo | 0.8 | 0.51 | | 833 |
| 839 | Interior live oak | Fagaceae | <i>Quercus</i> | <i>wislizeni</i> | mo | | | | |
| 840 | bluejack oak | Fagaceae | <i>Quercus</i> | <i>incana</i> | mo | 0.56 | 0.45 | | 802 |
| 843 | Silverleaf oak | Fagaceae | <i>Quercus</i> | <i>hypoleucoides</i> | wo | | | | |
| 850 | Oakevergreen (woodland species) | Fagaceae | <i>Quercus</i> | <i>spp.</i> | wo | | | | |
| 855 | banj oak | Fagaceae | <i>Quercus</i> | <i>leucotricophora</i> | mo | | | | |
| 856 | kharsu oak | Fagaceae | <i>Quercus</i> | <i>semecarpifolia</i> | mo | | | | |
| 899 | scrub oak | Fagaceae | <i>Quercus</i> | <i>spp.</i> | mo | 0.56 | 0.45 | | 802 |
| 901 | black locust | Leguminosae | <i>Robinia</i> | <i>psuedoacacia</i> | mh | 0.66 | 0.286 | 36 | 316 |
| 902 | New Mexico locust | Leguminosae | <i>Robinia</i> | <i>neomexicana</i> | wo | | | | |
| 920 | willow | Salicaceae | <i>Salix</i> | <i>spp.</i> | aa | 0.36 | 0.415 | 28 | 316 |
| 921 | peachleaf willow | Salicaceae | <i>Salix</i> | <i>amygdaloides</i> | aa | 0.36 | 0.45 | | 316 |
| 922 | black willow | Salicaceae | <i>Salix</i> | <i>nigra</i> | aa | 0.36 | 0.5 | | 316 |
| 923 | diamond willow | Salicaceae | <i>Salix</i> | <i>eriocephala</i> | aa | 0.36 | 0.45 | | 316 |
| 925 | Chinese tallowtree | Euphorbiaceae | <i>Sapium</i> | <i>sebiferum</i> | mh | 0.47 | 0.45 | | 316 |
| 931 | sassafras | Lauraceae | <i>Sassafras</i> | <i>albidum</i> | mh | 0.42 | 0.5 | | 316 |
| 935 | American mountain-ash | Rosaceae | <i>Sorbus</i> | <i>americana</i> | mh | 0.42 | 0.45 | | 316 |
| 936 | European mountain-ash | Rosaceae | <i>Sorbus</i> | <i>aucuparia</i> | mh | 0.42 | 0.45 | | 316 |
| 950 | basswood | Tiliaceae | <i>Tilia</i> | <i>spp.</i> | mh | 0.32 | 0.4205 | | 951 |
| 951 | American basswood | Tiliaceae | <i>Tilia</i> | <i>americana</i> | mh | 0.32 | 0.4205 | 36 | 951 |
| 952 | white basswood | Tiliaceae | <i>Tilia</i> | <i>heterophylla</i> | mh | 0.32 | 0.4205 | | 951 |
| 970 | elm | Ulmaceae | <i>Ulmus</i> | <i>spp.</i> | mh | 0.5 | 0.3775 | 34 | 970 |
| 971 | winged elm | Ulmaceae | <i>Ulmus</i> | <i>alata</i> | mh | 0.57 | 0.5 | | 970 |
| 972 | American elm | Ulmaceae | <i>Ulmus</i> | <i>americana</i> | mh | 0.46 | 0.5 | | 970 |
| 973 | cedar elm | Ulmaceae | <i>Ulmus</i> | <i>crassifolia</i> | mh | 0.57 | 0.5 | | 970 |
| 974 | Siberian elm | Ulmaceae | <i>Ulmus</i> | <i>pumila</i> | mh | 0.46 | 0.5 | | 970 |
| 975 | slippery elm | Ulmaceae | <i>Ulmus</i> | <i>rubra</i> | mh | 0.48 | 0.5 | | 970 |
| 976 | September elm | Ulmaceae | <i>Ulmus</i> | <i>serotina</i> | mh | 0.57 | 0.5 | | 970 |
| 977 | rock elm | Ulmaceae | <i>Ulmus</i> | <i>thomasii</i> | mh | 0.57 | 0.5 | | 970 |
| 980 | tung-oil tree | Euphorbiaceae | <i>Aleurites</i> | <i>fordii</i> | mh | 0.47 | 0.45 | | 316 |
| 981 | California-laurel | Ericaceae | <i>Umbellularia</i> | <i>californica</i> | mh | 0.47 | 0.45 | | 316 |
| 981 | sparkleberry | Ericaceae | <i>Vaccinium</i> | <i>arboreum</i> | mh | 0.47 | 0.45 | | 316 |
| 983 | chinaberry | Meliaceae | <i>Melia</i> | <i>azedarach</i> | mh | 0.47 | 0.45 | | 316 |
| 984 | water-elm | Ulmaceae | <i>Planera</i> | <i>aquatica</i> | mh | 0.53 | 0.45 | | 970 |
| 985 | smoketree | Anacardiaceae | <i>Cotinus</i> | <i>obovatus</i> | mh | 0.47 | 0.45 | | 316 |
| 986 | mesquite | Leguminosae | <i>Prosopis</i> | <i>spp.</i> | wo | 0.58 | 0.45 | | 316 |
| 990 | Tesota (Arizona ironwood) | Leguminosae | <i>Olneya</i> | <i>tesota</i> | wo | | | | |
| 1000 | hardwoods (general) | General | <i>Hardwood</i> | <i>spp.</i> | mh | 0.5 | 0.5 | | 951 |