APPENDIX 5

Conversion Factors for Shrub Volume to Biomass

Conversion factors used to convert shrub crown volume (m^3) to leaf biomass (g) are shown in Table 13. Values are based on averages from Winer et al. (1983) and Nowak (1991).

Table 13.—Conversion factor for shrub volume to biomass by species

Species	g/m ³	Species	g/m ³
<i>Acacia decurrens</i>	255	<i>Juniperus chinensis</i>	3700
<i>Acacia longifolia</i>	150	<i>Lagerstroemia indica</i>	950
<i>Acacia melanoxylon</i>	450	<i>Ligustrum species</i>	230
<i>Acer palmatum</i>	190	<i>Liquidambar styraciflua</i>	380
<i>Acer platanoides</i>	116	<i>Lonicera japonica</i>	390
<i>Acer saccharinum</i>	44	<i>Magnolia grandiflora</i>	350
<i>Betula pendula</i>	200	<i>Myrtus communis</i>	50
<i>Callistemon citrinus</i>	470	<i>Nerium oleander</i>	230
<i>Calocedrus decurrens</i>	1290	<i>Olea europaea</i>	500
<i>Camellia sasanqua</i>	1600	<i>Persea americana</i>	59
<i>Carya illinoensis</i>	383	<i>Phoenix canariensis</i>	540
<i>Ceanothus crassifolia</i>	280	<i>Pinus canariensis</i>	470
<i>Cedrus deodara</i>	920	<i>Pinus radiata</i>	390
<i>Celtis laevigata</i>	550	<i>Pittosporum tobira</i>	2700
<i>Celtis occidentalis</i>	75	<i>Pittosporum undulatum</i>	2700
<i>Cinnamomum camphora</i>	75	<i>Platanus hybrida</i>	200
<i>Citrus limon</i>	280	<i>Platanus occidentalis</i>	344
<i>Cotoneaster pannosus</i>	260	<i>Platanus racemosa</i>	86
<i>Cupressus macrocarpa</i>	940	<i>Podocarpus gracilior</i>	240
<i>Cupressus sempervirens</i>	5100	<i>Populus deltoides</i>	240
<i>Eriobotrya japonica</i>	860	<i>Prunus blairiana</i>	270
<i>Eucalyptus globulus</i>	740	<i>Prunus species</i>	290
<i>Eucalyptus polyanthemos</i>	270	<i>Pyracantha coccinea</i>	290
<i>Eucalyptus viminalis</i>	340	<i>Pyrus kawakamii</i>	180
<i>Fraxinus pennsylvanica</i>	108	<i>Quercus agrifolia</i>	310
<i>Fraxinus uhdei</i>	170	<i>Quercus virginiana</i>	477
<i>Gleditsia triacanthos</i>	63	<i>Quercus stellata</i>	470
<i>Hibiscus species</i>	400	<i>Quercus nigra</i>	225
<i>Ilex species</i>	540	<i>Raphiolepis indica</i>	550
<i>Jacaranda mimosifolia</i>	90	<i>Rhamnus crocea</i>	150

Appendix 5 (<https://doi.org/10.2737/NRS-GTR-200-2021-Appendix5>) in: Nowak, David J. 2021. Understanding i-Tree: Summary of programs and methods. Gen. Tech. Rep. NRS-200-2021. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station. 100 p. [plus 14 appendixes]. <https://doi.org/10.2737/NRS-GTR-200-2021>.

Table 13.—Continued

Species	g/m ³	Species	g/m ³
<i>Robinia pseudoacacia</i>	19	<i>Sequoia sempervirens</i>	470
<i>Salix x sepulcralis simonk</i>	110	<i>Ulmus americana</i>	48
<i>Salix nigra</i>	193	<i>Ulmus parvifolia</i>	25
<i>Salix sericea</i>	240	<i>Umbellularia californica</i>	245
<i>Schinus molle</i>	150	<i>Washingtonia filifera</i>	700
<i>Schinus terebinthifolius</i>	70	<i>Xylosma congestum</i>	470