



HARDNESS JANKA

SPECIES	Force in Pound (lbf)
Australian Buloke[5]	5.600
Schinopsis brasiliensis, Quebracho, Barauna, Chamacoco[6]	4.800
Schinopsis balansae, Quebracho Colorado, Red Quebracho[7]	4.570
Lignum vitae, Guayacan, Pockholz	4.500
Piptadenia Macrocarpa, Curupay, Angico Preto, Brazilian Tiger Mah	3.840
Snakewood, Letterhout, Piratinera Guinensis	3.800
Brazilian Olivewood	3.700
Brazilian Ebony	3.700
Ipê, Brazilian Walnut, Handroanthus lapacho	3.684
African Pearwood, Moabi	3.680
Grey Ironbark	3.650
Bolivian Cherry	3.650
Lapacho	3.640
Sucupira, Brazilian Chestnut, Tiete Chestnut	3.417
Kingwood[8]	3.340
Ironwood	3.260
Ebony	3.220
Massaranduba, Brazilian Redwood, Paraju	3.190
Yvyraro	3.040
Strand Woven Bamboo	3.000
Cocobolo	2.960
Bloodwood (Brosimum rubescens)	2.900
Boxwood	2.840
Red Mahogany, Turpentine	2.697
Live Oak	2.680
Southern Chestnut	2.670
Spotted Gum	2.473
Brazilian Cherry, Jatoba	2.350
Mesquite	2.340
Golden Teak	2.330
Guatambú, Kyrandy, Balfourodendron riedelianum	2.240
Santos Mahogany, Bocote, Cabreuva, Honduran Rosewood	2.200
Pradoo	2.170
Brazilian Koa	2.160
Brushbox	2.130
Osage Orange[9]	2.040
Karri	2.030
Sydney Blue Gum	3.023
Bubinga	1.980
Cameron	1.940
Tallowood	1.933
Merbau	1.925
Amendoim	1.912
Jarra	1.910
Purpleheart	1.860
Goncalo Alves, Tigerwood	1.850
Hickory, Pecan, Satinwood	1.820
Afzelia, Doussie, Australian Wormy Chestnut	1.810
Castello boxwood	1.810
Bangkirai	1.798
Rosewood	1.780
African Padauk	1.725
Blackwood	1.720
Merbau	1.712
Kempas	1.710
Black Locust	1.700
Highland Beech	1.686
Red Mulberry	1.680
Wenge, Red Pine, Hornbeam	1.630
Tualang	1.624
Zebrawood	1.575
True Pine, Timborana	1.570

SPECIES	Force in Pound (lbf)
Peroba	1.557
Sapele, Sapelli, Kupa'y	1.510
Curupixa	1.490
Sweet Birch	1.470
Hard maple, Sugar Maple	1.450
Caribbean Walnut	1.390
Kentucky coffeetree	1.390
Natural Bamboo (represents one species)	1.380
Australian Cypress	1.370
White Oak	1.360
Tasmanian oak	1.350
Ribbon Gum	1.349
Ash (White)	1.320
American Beech	1.300
Red Oak (Northern)	1.290
Caribbean Heart Pine	1.280
Keruing	1.270
Yellow Birch, Iroko	1.260
Movingui	1.230
Heart pine	1.225
Carapa guianensis, Brazilian Mesquite	1.220
Larch	1.200
Carbonized Bamboo (represents one species)	1.180
Teak	1.155
Brazilian Eucalyptus, Rose Gum	1.125
English Oak[10]	1.120
Makore	1.100
Siberian Larch	1.100
Peruvian Walnut	1.080
Boreal	1.023
Black Walnut, North American Walnut	1.010
Cherry	995
Black Cherry, Imbuia	950
Red Maple[11]	950
Boire	940
Paper Birch	910
Eastern Red Cedar	900
Southern Yellow Pine (Longleaf)	870
Lacewood, Leopardwood	840
African Mahogany	830
Mahogany, Honduran Mahogany	800
Parana	780
Sycamore	77
Box Elder	720
Shedua	710
Radiata Pine[12]	710
Silver Maple[13]	700
Southern Yellow Pine (Loblolly and Shortleaf)	690
Douglas Fir	660
Western Juniper	626
Alder (Red)	590
Larch	590
Chestnut	540
Yellow Poplar, Poplar	540
Hemlock	500
Western White Pine	420
Basswood	410
Eastern White Pine	380
Cuipo[14]	75
Balsa[14]	70
Balsa, softest wood ever measured: single unusual example[1]	22

