

Species	Family	Dispersal mode <sup>a</sup>	Shade tolerance <sup>b</sup>	Seed Length (mm)	Maximum Height (m) <sup>c</sup>	Wood Density (g/cm <sup>3</sup> ) <sup>d</sup>
<i>Alangium chinense</i>	Cornaceae	Zoochory	Pioneer	9	24	0.617
<i>Albizia gummifera</i>	Fabaceae	Barochory	Pioneer	10	30	0.544
<i>Alchornea hirtella</i>	Euphorbiaceae	Zoochory	Pioneer	4.5	11	0.413
<i>Allanblackia stuhlmannii</i>	Clusiaceae	Zoochory	shade tolerant	36.8	62	0.646
<i>Allophylus melliodorus</i>	Sapindaceae	Zoochory	shade tolerant	4	20	0.513
<i>Alsodeiopsis schumannii</i>	Icacinaceae	Zoochory	shade tolerant	23.7	16	0.577
<i>Anisophyllea obtusifolia</i>	Anisophylleaceae	Zoochory	shade tolerant	21.4	50	0.739
<i>Annickia kummeriae</i>	Annonaceae	Zoochory	shade tolerant	21.7	22	0.447
<i>Anthocleista grandiflora</i>	Gentianaceae	Zoochory	Pioneer	1	50	0.532
<i>Antiaris toxicaria</i>	Moraceae	Zoochory	Pioneer	12.5	40	0.383
<i>Aoranche penduliflora</i>	Rubiaceae	Zoochory	Pioneer	1.3	18	0.807
<i>Beilschmedia kweo</i>	Lauraceae	Zoochory	shade tolerant	50.8	40	0.574
<i>Bersama abyssinica</i>	Meliantaceae	Zoochory	non pioneer light demanding	11	30	0.618
<i>Blighia unijugata</i>	Sapindaceae	Zoochory	shade tolerant	10.5	18	0.710
<i>Bridelia micrantha</i>	Phyllanthaceae	Zoochory	Pioneer	8.1	20	0.553
<i>Camellia sinensis</i>	Theaceae	Zoochory	NA	14.1	2.5	0.550
<i>Celtis africana</i>	Cannabaceae	Zoochory	non pioneer light demanding	7	50	0.594
<i>Celtis gomphophylla</i>	Cannabaceae	Zoochory	non pioneer light demanding	6.4	35	0.594
<i>Celtis mildbraedii</i>	Cannabaceae	Zoochory	non pioneer light demanding	6	35	0.594
<i>Cephalosphaera usambarensis</i>	Myristicaceae	Zoochory	shade tolerant	49.1	57	0.430
<i>Chrysophyllum perpulchrum</i>	Sapotaceae	Zoochory	shade tolerant	18.9	52	0.655
<i>Cleistanthus polystachyus</i>	Phyllanthaceae	Zoochory	shade tolerant	6	30	0.633
<i>Cola greenwayi</i>	Malvaceae	Zoochory	shade tolerant	14.5	35	0.601
<i>Cola usambarensis</i>	Malvaceae	Zoochory	shade tolerant	15	8	0.601
<i>Cordia sp</i>	Cordiaceae	Zoochory	Pioneer	8	15	0.510
<i>Craibia zimmermannii</i>	Fabaceae	Barochory	shade tolerant	27	28	0.620
<i>Cylicomorpha parviflora</i>	Caricaceae	Zoochory	Pioneer	7	22	0.226
<i>Cynometra brachyrrhachis</i>	Fabaceae	Barochory	shade tolerant	20.4	50	0.803
<i>Cynometra longipedicellata</i>	Fabaceae	Barochory	shade tolerant	21	42	0.803
<i>Cynometra sp.</i>	Fabaceae	Barochory	shade tolerant	20	35	0.803
<i>Dasylepis integra</i>	Achariaceae	Zoochory	shade bearing	8.5	12	NA
<i>Drypetes gerrardii</i>	Putranjivaceae	Zoochory	shade tolerant	12.3	50	0.707
<i>Drypetes usambarica</i>	Putranjivaceae	Zoochory	shade tolerant	15	45	0.707
<i>Englerodendron usambarense</i>	Fabaceae	Barochory	shade tolerant	40	35	0.678
<i>Entandrophragma excelsum</i>	Meliaceae	Anemochory	non pioneer light demanding	40	35	0.536
<i>Erythrococca fischeri</i>	Euphorbiaceae	NA	NA	3.5	7.5	NA
<i>Ficus exasperata</i>	Moraceae	Zoochory	Pioneer	0.5	30	0.412
<i>Ficus sur</i>	Moraceae	Zoochory	Pioneer	0.01	23	0.412
<i>Funtumia africana</i>	Apocynaceae	Anemochory	Pioneer	2	28	0.424
<i>Greenwayodendron suaveolens</i>	Annonaceae	Zoochory	shade tolerant	10	32	0.564

<i>Heinsenya diervilleoides</i>	Rubiaceae	Zoochory	shade tolerant	9.7	28	0.636
<i>Ilex mitis</i>	Aquifoliaceae	Zoochory	shade tolerant	3.9	40	0.558
<i>Isobertlinia scheffleri</i>	Fabaceae	Barochory	shade tolerant	34.5	60	0.688
<i>Isolona heinsenii</i>	Annonaceae	Zoochory	shade tolerant	12.2	15	0.564
<i>Lagynias parviflora</i>	Rubiaceae	Zoochory	shade tolerant	12	20	0.636
<i>Leptonychia usambarensis</i>	Malvaceae	Zoochory	non pioneer light demanding	12	22	0.476
<i>Macaranga capensis</i>	Euphorbiaceae	Zoochory	Pioneer	4	35	0.381
<i>Maesa lanceolata</i>	Primulaceae	Zoochory	Pioneer	0.5	11	0.676
<i>Maesopsis eminii</i>	Rhamnaceae	Zoochory	Pioneer	20	40	0.384
<i>Magnistipula butayei</i>	Chrysobalanaceae	Zoochory	shade tolerant	40	25	0.781
<i>Maranthes goetzeniana</i>	Chrysobalanaceae	Zoochory	shade tolerant	30	52	0.817
<i>Margaritaria discoidea</i>	Phyllanthaceae	Zoochory	non pioneer light demanding	5	20	0.664
<i>Mesogyne insignis</i>	Moraceae	Zoochory	shade tolerant	13.2	15	0.541
<i>Milicia excelsa</i>	Moraceae	Zoochory	non pioneer light demanding	2	50	0.569
<i>Milletia dura</i>	Fabaceae	Barochory	Pioneer	10	18	0.678
<i>Morinda asteroscepa</i>	Rubiaceae	Zoochory	Pioneer	3	30	0.558
<i>Myrianthus holstii</i>	Urticaceae	Zoochory	non pioneer light demanding	12.3	30	0.450
<i>Newtonia buchananii</i>	Fabaceae	Anemochory	shade tolerant	57.5	57	0.574
<i>Ocotea usambarensis</i>	Lauraceae	Zoochory	shade tolerant	3	45	0.523
<i>Oxyanthus speciosus</i>	Rubiaceae	Zoochory	shade bearing	27	18	NA
<i>Parinari excelsa</i>	Chrysobalanaceae	Zoochory	non pioneer light demanding	36.8	50	0.702
<i>Phoenix reclinata</i>	Arecaceae	Zoochory	non pioneer light demanding	12.5	20	0.557
<i>Placodiscus amaniensis</i>	Sapindaceae	Zoochory	shade tolerant	8	29	0.793
<i>Pleiocarpa pycnantha</i>	Apocynaceae	Zoochory	non pioneer light demanding	9.5	30	0.567
<i>Polyceratocarpus scheffleri</i>	Annonaceae	Zoochory	shade tolerant	17	16	0.564
<i>Polyscias fulva</i>	Araliaceae	Zoochory	Pioneer	4	45	0.373
<i>Pouteria adolfi-friedericii</i>	Sapotaceae	Zoochory	shade tolerant	32.7	50	0.714
<i>Pterocarpus tinctorius</i>	Fabaceae	Anemochory	non pioneer light demanding	20	48	0.587
<i>Quassia undulata</i>	Simaroubaceae	Zoochory	non pioneer light demanding	35.8	50	0.324
<i>Rauvolfia caffra</i>	Apocynaceae	Zoochory	Pioneer	10	40	0.475
<i>Rawsonia lucida</i>	Achariaceae	Zoochory	shade tolerant	8	18	0.745
<i>Rytiginia flavida</i>	Rubiaceae	Zoochory	shade tolerant	7	5	0.636
<i>Rytiginia sp.</i>	Rubiaceae	Zoochory	shade tolerant	7	12	0.636
<i>Rytiginia xanthhotricha</i>	Rubiaceae	Zoochory	shade tolerant	7	15	0.636
<i>Schefflerodendron usambarensense</i>	Fabaceae	Barochory	shade tolerant	16.9	18	0.678
<i>Shirakiopsis elliptica</i>	Euphorbiaceae	Zoochory	non pioneer light demanding	5.3	30	0.414
<i>Sorindeia madagascariensis</i>	Anacardiaceae	Zoochory	shade tolerant	21.8	30	0.560
<i>Strombosia scheffleri</i>	Strombosiaceae	Zoochory	shade tolerant	18.3	40	0.747
<i>Symphonia globulifera</i>	Clusiaceae	Zoochory	shade tolerant	17.5	20	0.618
<i>Synsepalum cerasiferum</i>	Sapotaceae	Zoochory	shade tolerant	16.9	50	0.678
<i>Synsepalum msolo</i>	Sapotaceae	Zoochory	shade tolerant	20.3	50	0.678
<i>Syzygium guineense</i>	Myrtaceae	Zoochory	shade tolerant	7	40	0.649
<i>Tabernaemontana pachysiphon</i>	Apocynaceae	Zoochory	Pioneer	12.5	18	0.525

<i>Tabernaemontana stapfiana</i>	Apocynaceae	Zoochory	Pioneer	20	13	0.525
<i>Tricalysia pallens</i>	Rubiaceae	Zoochory	shade tolerant	4	40	0.100
<i>Trichilia dregeana</i>	Meliaceae	Zoochory	shade tolerant	16.6	35	0.634
<i>Trichilia emetica</i>	Meliaceae	Zoochory	shade tolerant	17.5	30	0.634
<i>Trilepisium madagascariense</i>	Moraceae	Zoochory	shade tolerant	14.3	30	0.541
<i>Turraea holstii</i>	Meliaceae	Zoochory	shade tolerant	4.5	18	0.663
<i>Uvariadendron usambarensense</i>	Annonaceae	Zoochory	shade tolerant	21.4	15	0.564
<i>Vangueria infuasta</i>	Rubiaceae	Zoochory	shade tolerant	25	7	0.657
<i>Vepris nobilis</i>	Rutaceae	Zoochory	shade tolerant	5.5	25	0.659
<i>Vitex amaniensis</i>	Lamiaceae	Zoochory	shade tolerant	13	30	0.549
<i>Xylopia aethiopica</i>	Annonaceae	Zoochory	Pioneer	6	45	0.678
<i>Xymalos monospora</i>	Monimiaceae	Zoochory	shade tolerant	11.8	17	0.588
<i>Zanha golungensis</i>	Sapindaceae	Zoochory	shade tolerant	21.7	24	0.795
<i>Zanthoxylum usambarensense</i>	Rutaceae	Zoochory	Pioneer	6	30	0.610
<i>Zanthoxylum gilletti</i>	Rutaceae	Zoochory	Pioneer	3.5	35	0.610
<i>Zenkerella grotei</i>	Leguminosae	Barochory	shade bearing	15	22	NA

<sup>a</sup> dispersal mode: zoochory (animal-dispersal); anemochory (wind-dispersal); and barochory (gravity or explosive dispersal); data from Chapman et al. (2016), the African Tree Database ([https://figshare.com/articles/Plant\\_animal\\_interactions\\_from\\_Africa/1526128](https://figshare.com/articles/Plant_animal_interactions_from_Africa/1526128)) and N.J. Cordeiro & H.J. Ndangalasi, unpublished data.

<sup>b</sup> shade tolerance: pio = pioneer; shade tol = shade tolerance; non-pio light dem = non-pioneer light demanding; data classifications from Ouédraogo et al. (2013, 2016), supplemented information from Ruffo et al. (1989) and Lovett et al. (2006).

<sup>c</sup> tree height: sourced from Lovett et al. (2006) and <http://www.prota.org/>

<sup>d</sup> wood density (g/cm<sup>3</sup>) sourced from global wood density database (Chave et al. 2009; Zanne et al. 2009).

## LITERATURE CITED

- Chave, J., Coomes, D., Jansen, S., Lewis, S.L., Swenson, N.G. & Zanne, A.E. (2009) Towards a worldwide wood economics spectrum. *Ecology Letters*, **12**, 351–366.
- Lovett, J., Sørensen, L. & Lovett, J. (2006) *Field Guide to the Moist Forest Trees of Tanzania*. Society for Environmental Exploration.
- Ruffo, C.K., Mmari, C., Kibuwa, S.P., Lovett, J., Iversen, S., Hamilton, A.C. & IUCN Tropical Forest Programme. (1989) A Preliminary List of Plant Species Recorded from the East Usambara Forests. *Forest conservation in the East Usambara Mountains, Tanzania* (eds A.C. Hamilton & R. Bensted-Smith), pp. 157–180. IUCN, Gland, Switzerland.
- Zanne, A.E., Lopez-Gonzalez, G., Coomes, D.A.A., Ilic, J., Jansen, S., Lewis, S.L.S.L., Miller, R.B.B., Swenson, N.G.G., Wiemann, M.C.C. & Chave, J. (2009) Global wood density database. *Dryad*, **235**, 33.