

Supplementary Table 1 | Results by species.

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
Cameroon	51	Achariaceae	Scottellia klaineana	153	70.6	34	+	+		
Cameroon	51	Annonaceae	Annickia chlorantha	106	51.2	34	+			
Cameroon	51	Annonaceae	Xylopia aethiopica	71	53.3	34	+			
Cameroon	51	Combretaceae	Strephonema pseudocola	55	130.7	34	(+)	+		
Cameroon	51	Dichapetalaceae	Tapura africana	57	74.9	34	+			
Cameroon	51	Ebenaceae	Diospyros gabunensis	744	50.4	34	(+)	+	+	
Cameroon	51	Erythrolaceae	Strombosia pustulata	684	46.5	34	+	+		
Cameroon	51	Erythrolaceae	Strombosia scheffleri	119	69.9	34	+			
Cameroon	51	Erythrolaceae	Strombosiopsis tetrandra	230	68.9	34	+			
Cameroon	51	Euphorbiaceae	Dichostemma glaucescens	1771	44.5	34	+			
Cameroon	51	Euphorbiaceae	Discoglyprena caloneura	43	64.9	34	+			
Cameroon	51	Euphorbiaceae	Klaineanthus gaboniae	355	55.7	34	+			
Cameroon	51	Fabaceae	Hymenostegia afzelii	476	44.3	34	+			
Cameroon	51	Fabaceae	Talbotiella eketensis	132	51.2	34	+			
Cameroon	51	Lamiaceae	Vitex grandifolia	80	46.6	34	+			
Cameroon	51	Lamiaceae	Vitex sp.1	48	126.5	34	+			
Cameroon	51	Lauraceae	Hypodaphnis zenkeri	129	91.8	34	+			
Cameroon	51	Lecythidaceae	Oubanguia alata	2639	73.8	34	+	+		
Cameroon	51	Lecythidaceae	Scytopetalum klaineanum	45	76.0	34	+			
Cameroon	51	Phyllanthaceae	Protomegabaria stapfiana	384	58.4	34	+			
Cameroon	51	Phyllanthaceae	Uapaca staudtii	90	69.0	34	(+)			
Cameroon	51	Rubiaceae	Pausinystalia macroceras	49	58.5	34	+			
Cameroon	51	Rutaceae	Zanthoxylum gillettii	120	87.4	34	+			
Cameroon	51	Salicaceae	Homalium longistylum	51	63.2	34	+			
Cameroon	51	Sapotaceae	Lecomtedoxa klaineana	142	185.0	34	(+)	+		
Cameroon	51	Vochysiaceae	Erismadelphus exsul	58	85.0	34	+			
Dem. Rep. Congo	52	Apocynaceae	Alstonia boonei	42	116.3	34	+			
Dem. Rep. Congo	52	Fabaceae	Anthonotha macrophylla	41	60.1	34	(+)			
Dem. Rep. Congo	52	Fabaceae	Cynometra alexandri	1311	123.3	34	+	+		
Dem. Rep. Congo	52	Fabaceae	Erythrophleum suaveolens	101	112.9	34	(-)	+		
Dem. Rep. Congo	52	Fabaceae	Gilbertiodendron dewevrei	3492	142.3	34	+	+	+	
Dem. Rep. Congo	52	Fabaceae	Julbernardia seretii	988	122.3	34	+	+		

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Dem. Rep. Congo	52	Malvaceae	<i>Cola lateritia</i>	186	67.7	34	+	+		
Dem. Rep. Congo	52	Phyllanthaceae	<i>Cleistanthus michelsonii</i>	197	88.0	34	+	+		
Dem. Rep. Congo	52	Rhizophoraceae	<i>Comiphyton gabonense</i>	44	75.2	34	+			
Dem. Rep. Congo	52	Rubiaceae	<i>Hallea stipulosa</i>	88	84.0	34	(+)	+		
Dem. Rep. Congo	52	Rubiaceae	<i>Sarcocephalus pobeginii</i>	47	76.8	34	+			
China	53	Betulaceae	<i>Betula platyphylla</i>	90	46.4	54,55	+	+		
China	53	Fagaceae	<i>Quercus mongolica</i>	770	104.2	54,55	+	+		
China	53	Malvaceae	<i>Tilia amurensis</i>	2185	104.4	54,55	+	+		
China	53	Malvaceae	<i>Tilia mandshurica</i>	142	76.5	54,55	(+)			
China	53	Oleaceae	<i>Fraxinus mandshurica</i>	648	100.3	54,55	(+)	+	+	(-)
China	53	Pinaceae	<i>Pinus koraiensis</i>	2387	98.5	54,55	(-)	+	+	(-)
China	53	Rosaceae	<i>Malus baccata</i>	50	48.3	54,55	(+)			
China	53	Sapindaceae	<i>Acer mono</i>	1625	61.0	54,55	(+)	+		
China	53	Ulmaceae	<i>Ulmus japonica</i>	395	100.1	54,55	+	+	+	
Malaysia	56	Anacardiaceae	<i>Gluta laxiflora</i>	458	50.9	34	+			
Malaysia	56	Anacardiaceae	<i>Gluta macrocarpa</i>	168	80.5	34	+	+		
Malaysia	56	Anacardiaceae	<i>Gluta wallichii</i>	72	97.4	34	+	+	(+)	
Malaysia	56	Anacardiaceae	<i>Gluta woodsiana</i>	78	80.2	34	+			
Malaysia	56	Anacardiaceae	<i>Mangifera foetida</i>	81	62.0	34	+			
Malaysia	56	Anacardiaceae	<i>Mangifera parvifolia</i>	293	50.8	34	(+)	+		
Malaysia	56	Anacardiaceae	<i>Swintonia foxworthyi</i>	62	66.5	34	+			
Malaysia	56	Anacardiaceae	<i>Swintonia schwenkii</i>	211	86.1	34	(+)	+		
Malaysia	56	Burseraceae	<i>Canarium pseudopatienti-nervium</i>	54	69.9	34	(+)			
Malaysia	56	Burseraceae	<i>Dacryodes aff. incurvata</i>	161	54.7	34	+			
Malaysia	56	Burseraceae	<i>Dacryodes expansa</i>	507	49.6	34	+			
Malaysia	56	Burseraceae	<i>Dacryodes incurvata</i>	90	64.2	34	+			
Malaysia	56	Burseraceae	<i>Dacryodes rostrata</i>	403	51.6	34	+			
Malaysia	56	Burseraceae	<i>Santiria grandiflora</i>	51	68.0	34	+	+		
Malaysia	56	Burseraceae	<i>Santiria laevigata</i>	263	64.5	34	+	+		
Malaysia	56	Burseraceae	<i>Santiria mollis</i>	81	65.8	34	+			
Malaysia	56	Burseraceae	<i>Santiria rubiginosa</i>	44	89.6	34	+			
Malaysia	56	Burseraceae	<i>Santiria tomentosa</i>	128	62.8	34	(+)	(+)	(+)	(+)
Malaysia	56	Clusiaceae	<i>Calophyllum soulattri</i>	40	95.4	34	(+)	+		
Malaysia	56	Clusiaceae	<i>Garcinia caudiculata</i>	54	58.9	34	+			
Malaysia	56	Clusiaceae	<i>Kayea macrantha</i>	80	46.8	34	+			
Malaysia	56	Crypteroniaceae	<i>Crypteronia macrophylla</i>	105	48.2	34	(+)			
Malaysia	56	Ctenolophonaceae	<i>Ctenolophon parvifolius</i>	74	82.6	34	(+)	+		
Malaysia	56	Dipterocarpaceae	<i>Cotylelobium melanoxylon</i>	48	85.1	34	(+)	+		

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Malaysia	56	Dipterocarpaceae	Dipterocarpus confertus	47	137.0	34	+	+		
Malaysia	56	Dipterocarpaceae	Dipterocarpus crinitus	51	125.5	34	(+)	+	+	
Malaysia	56	Dipterocarpaceae	Dipterocarpus geniculatus	62	118.2	34	+	+		
Malaysia	56	Dipterocarpaceae	Dipterocarpus globosus	624	118.1	34	+	+		
Malaysia	56	Dipterocarpaceae	Dipterocarpus palembanicus subsp. borneensis	47	116.7	34	+			
Malaysia	56	Dipterocarpaceae	Dipterocarpus palembanicus subsp. palembanicus	43	93.2	34	(-)	+		
Malaysia	56	Dipterocarpaceae	Dryobalanops aromatica	705	144.4	34	+	+		
Malaysia	56	Dipterocarpaceae	Dryobalanops lanceolata	43	123.4	34	+	+		
Malaysia	56	Dipterocarpaceae	Parashorea parvifolia	58	124.5	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea acuta	361	79.5	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea amplexicaulis	146	87.4	34	+			
Malaysia	56	Dipterocarpaceae	Shorea beccariana	218	110.2	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea curtisii	67	136.7	34	+			
Malaysia	56	Dipterocarpaceae	Shorea falciferoides	70	141.4	34	+	+	+	
Malaysia	56	Dipterocarpaceae	Shorea kunstleri	104	127.8	34	(+)	+		
Malaysia	56	Dipterocarpaceae	Shorea laxa	375	114.1	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea macroptera subsp. baillonii	136	97.3	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea macroptera subsp. macropterifolia	131	74.0	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea ovata	57	81.1	34	+			
Malaysia	56	Dipterocarpaceae	Shorea parvifolia	126	126.3	34	+			
Malaysia	56	Dipterocarpaceae	Shorea quadrinervis	110	69.2	34	+			
Malaysia	56	Dipterocarpaceae	Shorea rubella	53	125.7	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea scaberrima	56	125.5	34	+	+		
Malaysia	56	Dipterocarpaceae	Shorea scrobiculata	76	97.6	34	+	+	(+)	
Malaysia	56	Dipterocarpaceae	Shorea smithiana	129	130.0	34	+	+	+	
Malaysia	56	Dipterocarpaceae	Vatica badiifolia	80	81.1	34	(+)	+		
Malaysia	56	Ebenaceae	Diospyros diepenhorstii	132	58.7	34	+			
Malaysia	56	Euphorbiaceae	Chaetocarpus castanocarpus	174	48.0	34	+			
Malaysia	56	Euphorbiaceae	Elatiospermum tapos	449	51.0	34	+			
Malaysia	56	Fabaceae	Dialium indum	98	72.0	34	+			
Malaysia	56	Fabaceae	Koompassia malaccensis	68	103.0	34	+			
Malaysia	56	Fabaceae	Millettia vasta	44	79.1	34	+			
Malaysia	56	Ixonanthaceae	Allantospermum borneense	714	58.0	34	+	+		
Malaysia	56	Kiggelariaceae	Hydnocarpus pinguis	87	46.6	34	(-)	+		

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Malaysia	56	Kiggelariaceae	Hydnocarpus woodii	62	71.0	34	+			
Malaysia	56	Lauraceae	Alseodaphne bancana	110	85.0	34	+			
Malaysia	56	Lauraceae	Alseodaphne insignis	115	98.0	34	(-)	(+)	(+)	
Malaysia	56	Malvaceae	Durio acutifolius	71	71.0	34	+			
Malaysia	56	Malvaceae	Durio crassipes	66	104.3	34	+			
Malaysia	56	Malvaceae	Pentace adenophora	82	88.1	34	(+)	+		
Malaysia	56	Moraceae	Artocarpus anisophyllus	116	52.5	34	+			
Malaysia	56	Moraceae	Artocarpus nitidus	89	46.0	34	+			
Malaysia	56	Myristicaceae	Myristica villosa	77	45.8	34	+			
Malaysia	56	Myrtaceae	Cleistocalyx cf. barringtonioides	70	67.2	34	+			
Malaysia	56	Myrtaceae	Syzygium cf. attenuatum	62	65.0	34	+			
Malaysia	56	Myrtaceae	Syzygium cf. grande	221	62.0	34	+			
Malaysia	56	Myrtaceae	Syzygium sp. incert. c	41	75.4	34	(-)	+		
Malaysia	56	Myrtaceae	Whiteodendron moultonianum	576	70.7	34	+			
Malaysia	56	Oxalidaceae	Sarcotheca diversifolia	47	50.9	34	+			
Malaysia	56	Rutaceae	Melicope glabra	58	54.2	34	+			
Malaysia	56	Sapotaceae	Palaquium microphyllum	91	62.7	34	+			
Malaysia	56	Verbenaceae	Teijsmanniodendron simplicifolium	281	60.2	34	+			
Taiwan	57	Anacardiaceae	Rhus succedanea	61	54.0	34	+			
Taiwan	57	Araliaceae	Schefflera octophylla	472	84.1	34	+			
Taiwan	57	Ebenaceae	Diospyros morrisiana	492	60.9	34	+	+		
Taiwan	57	Elaeocarpaceae	Elaeocarpus japonicus	375	72.4	34	(+)	+	+	
Taiwan	57	Fagaceae	Castanopsis cuspidata	1311	99.0	34	+	+	-	
Taiwan	57	Fagaceae	Cyclobalanopsis gilva	118	88.4	34	+			
Taiwan	57	Fagaceae	Cyclobalanopsis longinux	246	52.9	34	+			
Taiwan	57	Fagaceae	Limlia uraiana	1108	171.5	34	(+)	+		
Taiwan	57	Fagaceae	Lithocarpus harlandii	49	59.2	34	+			
Taiwan	57	Juglandaceae	Engelhardia roxburghiana	561	93.3	34	+	+	+	
Taiwan	57	Lauraceae	Cinnamomum micranthum	204	90.6	34	+			
Taiwan	57	Lauraceae	Litsea acuminata	986	67.5	34	+	+	(+)	
Taiwan	57	Lauraceae	Machilus thunbergii	1223	90.0	34	(+)	+		
Taiwan	57	Lauraceae	Machilus zuihoensis	613	79.5	34	+	-		
Taiwan	57	Lythraceae	Lagerstroemia subcostata	83	48.0	34	(+)			
Taiwan	57	Phyllanthaceae	Glochidion acuminatum	394	39.6	34	+			
Taiwan	57	Sabiaceae	Meliosma squamulata	1814	74.8	34	+	+		

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Taiwan	57	Theaceae	Pyrenaria shinkoensis	1679	43.3	34	+	+	+	
Thailand	58	Anacardiaceae	Gluta obovata	172	90.8	34	+	+		
Thailand	58	Annonaceae	Alphonsea ventricosa	566	71.7	34	+			
Thailand	58	Annonaceae	Polyalthia viridis	2207	46.4	34	+			
Thailand	58	Annonaceae	Saccopetalum lineatum	999	114.6	34	+	+	+	
Thailand	58	Burseraceae	Garuga pinnata	53	87.4	34	+			
Thailand	58	Clusiaceae	Garcinia speciosa	454	68.9	34	+			
Thailand	58	Datisceae	Tetrameles nudiflora	205	219.4	34	(+)	+		
Thailand	58	Dipterocarpaceae	Anisoptera costata	75	138.1	34	+	+		
Thailand	58	Dipterocarpaceae	Dipterocarpus alatus	195	149.2	34	(+)	+		
Thailand	58	Dipterocarpaceae	Hopea odorata	182	189.9	34	+	+		
Thailand	58	Dipterocarpaceae	Vatica harmandiana	692	126.8	34	+	+		
Thailand	58	Ebenaceae	Diospyros variegata	381	74.8	34	+	+		
Thailand	58	Ebenaceae	Diospyros winitii	786	45.0	34	+			
Thailand	58	Euphorbiaceae	Macaranga siamensis	90	52.0	34	+			
Thailand	58	Euphorbiaceae	Mallotus philippensis	121	51.4	34	+			
Thailand	58	Euphorbiaceae	Trewia nudiflora	159	61.7	34	+			
Thailand	58	Irvingiaceae	Irvingia malayana	95	113.0	34	+	+		
Thailand	58	Lamiaceae	Vitex peduncularis	54	71.8	34	+			
Thailand	58	Lauraceae	Neolitsea obtusifolia	500	66.6	34	+	+		
Thailand	58	Lauraceae	Persea sp.	138	63.9	34	+			
Thailand	58	Lythraceae	Lagerstroemia tomentosa	188	137.6	34	+	+		
Thailand	58	Malvaceae	Pterospermum grandiflorum	118	65.1	34	+			
Thailand	58	Meliaceae	Aglaia spectabilis	110	67.2	34	(-)	+	+	
Thailand	58	Meliaceae	Aphanamixis polystachya	71	76.9	34	+			
Thailand	58	Meliaceae	Chukrassia tabularis	96	87.0	34	(+)	+		
Thailand	58	Meliaceae	Dysoxylum grande	72	39.3	34	+			
Thailand	58	Myrtaceae	Syzygium syzgioides	75	68.0	34	+			
Thailand	58	Phyllanthaceae	Baccaurea ramiflora	907	41.4	34	+			
Thailand	58	Polygalaceae	Xanthophyllum flavescens	88	56.7	34	+			
Thailand	58	Sapindaceae	Acer oblongum	175	131.4	34	(+)	+		
Thailand	58	Sapindaceae	Arytera littoralis	818	42.5	34	(-)	+		
Thailand	58	Sapindaceae	Dimocarpus longan	999	92.2	34	+	+		
Thailand	58	Sapindaceae	Harpullia arborea	186	48.6	34	+	-		
New Zealand	59	Cunoniaceae	Weinmannia racemosa	9277	173.8	60	+	+	+	
New Zealand	59	Cupressaceae	Libocedrus bidwillii	56	83.2	60	+			
New Zealand	59	Elaeocarpaceae	Elaeocarpus dentatus	56	85.4	60	+			
New Zealand	59	Elaeocarpaceae	Elaeocarpus hookerianus	91	95.0	60	(-)	+		

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New Zealand	59	Escalloniaceae	Carpodetus serratus	628	48.3	60	+			
New Zealand	59	Escalloniaceae	Ixerba excelsa	98	58.8	60	+			
New Zealand	59	Escalloniaceae	Quintinia acutifolia	368	39.8	60	+			
New Zealand	59	Fagaceae	Nothofagus fusca	2381	203.5	60	+	+	+	-
New Zealand	59	Fagaceae	Nothofagus menziesii	6855	158.0	60	+	+	+	+
New Zealand	59	Fagaceae	Nothofagus solandri	17595	121.0	60	+	+	+	+
New Zealand	59	Fagaceae	Nothofagus truncata	89	124.5	60	+			
New Zealand	59	Griselinaceae	Griselinia littoralis	1636	106.3	60	+	+		
New Zealand	59	Lauraceae	Beilschmiedia tawa	304	95.0	60	+			
New Zealand	59	Myrtaceae	Kunzea ericoides	599	78.4	60	(+)	+	+	
New Zealand	59	Myrtaceae	Metrosideros umbellata	1196	267.5	60	+	+		
New Zealand	59	Onagraceae	Fuchsia excorticata	241	66.5	60	+	+		
New Zealand	59	Podocarpaceae	Dacrydium cupressinum	860	193.0	60	+	+	+	
New Zealand	59	Podocarpaceae	Podocarpus hallii	1277	147.7	60	(+)	+		
New Zealand	59	Podocarpaceae	Prumnopitys ferruginea	444	90.5	60	+			
New Zealand	59	Podocarpaceae	Prumnopitys taxifolia	72	65.7	60	+			
New Zealand	59	Proteaceae	Knightia excelsa	175	90.5	60	+	+		
New Zealand	59	Violaceae	Melicytus ramiflorus	1120	138	60	+			
Argentina	61	Anacardiaceae	Astronium urundeuva	212	90.0	34	+	+		
Argentina	61	Betulaceae	Alnus acuminata	145	66.2	34	+			
Argentina	61	Bignoniaceae	Tabebuia impetiginosa	107	62.3	34	+	+		
Argentina	61	Boraginaceae	Cordia trichotoma	100	54.6	34	+			
Argentina	61	Boraginaceae	Patagonula americana	277	77.5	34	+	+		
Argentina	61	Caprifoliaceae	Sambucus nigra	102	50.6	34	(+)			
Argentina	61	Combretaceae	Terminalia triflora	371	85.4	34	+			
Argentina	61	Elaeocarpaceae	Crinodendron tucumanum	175	113.4	34	+	+	(-)	
Argentina	61	Fabaceae	Anadenanthera colubrina	616	127.0	34	+	+		
Argentina	61	Fabaceae	Gleditsia amorphoides	181	45.0	34	+			
Argentina	61	Fabaceae	Myroxylon peruiferum	68	64.0	34	+			
Argentina	61	Fabaceae	Parapiptadenia excelsa	499	89.2	34	(-)	+		
Argentina	61	Fabaceae	Tipuana tipu	46	152.2	34	+	+		
Argentina	61	Juglandaceae	Juglans australis	98	56.7	34	+			
Argentina	61	Lauraceae	Cinnamomum porphyrium	627	174.5	34	+			
Argentina	61	Lauraceae	Ocotea puberula	318	82.5	34	+			
Argentina	61	Malvaceae	Ceiba insignis	78	95.5	34	(+)			

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Argentina	61	Malvaceae	<i>Heliocarpus popayanensis</i>	56	55.7	34	+			
Argentina	61	Meliaceae	<i>Cedrela balansae</i>	69	100.5	34	+			
Argentina	61	Meliaceae	<i>Cedrela lilloi</i>	75	82.8	34	(-)	+		
Argentina	61	Moraceae	<i>Morus alba</i>	179	76.1	34	(+)	+	(+)	(+)
Argentina	61	Myrtaceae	<i>Blepharocalyx salicifolius</i>	174	132.5	34	(+)	+	+	
Argentina	61	Myrtaceae	<i>Myrcianthes pungens</i>	516	72.6	34	+			
Argentina	61	Nyctaginaceae	<i>Pisonia zapallo</i>	365	84.7	34	+			
Argentina	61	Podocarpaceae	<i>Podocarpus parlatorei</i>	299	151.9	34	+	+		
Argentina	61	Polygonaceae	<i>Ruprechtia laxiflora</i>	93	104.8	34	+	+		
Argentina	61	Primulaceae	<i>Myrsine laetevirens</i>	149	134.4	34	+			
Argentina	61	Rhamnaceae	<i>Phyllostylon rhamnoides</i>	441	88.2	34	+	+		
Argentina	61	Rubiaceae	<i>Callycophyllum multiflorum</i>	287	83.7	34	(-)	+		
Argentina	61	Sapindaceae	<i>Cupanea vernalis</i>	128	57.5	34	+			
Argentina	61	Sapindaceae	<i>Diatenopterix sorbifolia</i>	291	54.9	34	(+)	+		
Argentina	61	Sapotaceae	<i>Chrysophyllum gonocarpum</i>	172	75.0	34	+	+		
Colombia	62	Anacardiaceae	<i>Astronium graveolens</i>	290	50.2	63	(+)	+		
Colombia	62	Burseraceae	<i>Bursera simaruba</i>	186	64.9	63	+			
Colombia	62	Dipterocarpaceae	<i>Pseudomonotes tropenbosii</i>	58	72.9	63	+			
Colombia	62	Euphorbiaceae	<i>Croton magdalenensis</i>	52	52.0	63	+			
Colombia	62	Fagaceae	<i>Quercus humboldtii</i>	509	92.5	63	+	+	-	
Colombia	62	Lecythidaceae	<i>Eschweilera punctata</i>	115	69.7	63	+			
Colombia	62	Moraceae	<i>Brosimum utile</i>	115	97.1	63	+			
Panama	64	Anacardiaceae	<i>Spondias radlkoferi</i>	57	93.9	34	(+)	+		
Panama	64	Annonaceae	<i>Guatteria dumetorum</i>	160	67.3	34	(-)	+		
Panama	64	Apocynaceae	<i>Aspidosperma spruceanum</i>	50	111.2	34	+	+		
Panama	64	Apocynaceae	<i>Tabernaemontana arborea</i>	292	82.7	34	+			
Panama	64	Araliaceae	<i>Dendropanax arboreus</i>	64	66.9	34	+	+		
Panama	64	Bignoniaceae	<i>Jacaranda copaia</i>	205	91.6	34	+			
Panama	64	Bignoniaceae	<i>Tabebuia rosea</i>	55	82.5	34	+			
Panama	64	Boraginaceae	<i>Cordia alliodora</i>	49	64.2	34	+			
Panama	64	Boraginaceae	<i>Cordia bicolor</i>	289	45.8	34	+			
Panama	64	Burseraceae	<i>Protium tenuifolium</i>	331	46.3	34	+			
Panama	64	Burseraceae	<i>Tetragastris panamensis</i>	356	74.2	34	+			
Panama	64	Chrysobalanaceae	<i>Hirtella triandra</i>	646	41.0	34	+			
Panama	64	Erythralaceae	<i>Heisteria concinna</i>	255	38.0	34	+			
Panama	64	Euphorbiaceae	<i>Alchornea costaricensis</i>	87	60.3	34	(+)			
Panama	64	Euphorbiaceae	<i>Hura crepitans</i>	87	246.8	34	(-)	+	+	
Panama	64	Fabaceae	<i>Lonchocarpus heptaphyllus</i>	86	55.7	34	+			
Panama	64	Fabaceae	<i>Prioria copaifera</i>	319	136.9	34	+	+		

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
Panama	64	Fabaceae	Tachigali versicolor	78	63.2	34	(+)	+	+	
Panama	64	Lauraceae	Beilschmiedia pendula	228	79.2	34	+	+		
Panama	64	Lauraceae	Ocotea whitei	97	82.7	34	+			
Panama	64	Lecythidaceae	Gustavia superba	547	44.8	34	+			
Panama	64	Malvaceae	Apeiba membranacea	174	114.3	34	+			
Panama	64	Malvaceae	Luehea seemannii	62	113.9	34	+			
Panama	64	Malvaceae	Quararibea asterolepis	525	92.5	34	+			
Panama	64	Meliaceae	Guarea guidonia	296	44.5	34	+			
Panama	64	Meliaceae	Trichilia tuberculata	1306	64.3	34	+	+		
Panama	64	Moraceae	Brosimum alicastrum	162	129.5	34	(-)	+		
Panama	64	Moraceae	Poulsenia armata	480	80.0	34	+			
Panama	64	Myristicaceae	Virola sebifera	495	42.3	34	+			
Panama	64	Myristicaceae	Virola surinamensis	107	88.5	34	(-)	+		
Panama	64	Nyctaginaceae	Guapira standleyana	78	108.7	34	+			
Panama	64	Putranjivaceae	Drypetes standleyi	276	60.6	34	+	+		
Panama	64	Rubiaceae	Alseis blackiana	881	89.2	34	(+)	+	+	
Panama	64	Rutaceae	Zanthoxylum ekmanii	111	67.4	34	+			
Panama	64	Salicaceae	Casearia arborea	69	54.7	34	+			
Panama	64	Sapotaceae	Pouteria reticulata	169	85.0	34	(+)	+		
Panama	64	Simaroubaceae	Simarouba amara	207	76.7	34	+	+		
Panama	64	Urticaceae	Cecropia insignis	155	56.2	34	+			
Spain	65,66	Aquifoliaceae	Ilex aquifolium	295	51.6	65,66	+			
Spain	65,66	Aquifoliaceae	Ilex canariensis	272	71.6	65,66	+			
Spain	65,66	Betulaceae	Alnus glutinosa	1177	118.4	65,66	+	+	+	
Spain	65,66	Betulaceae	Betula spp.	2343	79.6	65,66	+	+		
Spain	65,66	Cupressaceae	Chamaecyparis lawsoniana	724	50.4	65,66	+	+	+	
Spain	65,66	Cupressaceae	Juniperus communis	684	75.8	65,66	+	+		
Spain	65,66	Cupressaceae	Juniperus thurifera	5900	127.3	65,66	+	+	+	
Spain	65,66	Fagaceae	Castanea sativa	4775	240.6	65,66	(+)	+	+	-
Spain	65,66	Fagaceae	Fagus sylvatica	20676	164.9	65,66	+	+	+	(+)
Spain	65,66	Fagaceae	Quercus ilex	40451	141.6	65,66	+	+	+	-
Spain	65,66	Fagaceae	Quercus petraea	5145	187.8	65,66	(-)	+	+	
Spain	65,66	Fagaceae	Quercus pyrenaica	20466	172.4	65,66	(+)	+	+	(+)
Spain	65,66	Fagaceae	Quercus robur	8866	146.4	65,66	(-)	+	+	-
Spain	65,66	Fagaceae	Quercus suber	10907	146.5	65,66	-	+	+	+
Spain	65,66	Juglandaceae	Juglans regia	68	77.0	65,66	(+)			
Spain	65,66	Lauraceae	Persea indica	201	105.0	65,66	+			
Spain	65,66	Malvaceae	Tilia spp.	97	79.9	65,66	+			
Spain	65,66	Myricaceae	Myrica faya	786	108.2	65,66	+	+	+	
Spain	65,66	Myrtaceae	Eucalyptus camaldulensis	1189	89.1	65,66	-	+	+	+
Spain	65,66	Myrtaceae	Eucalyptus globulus	3465	117.8	65,66	-	+	+	+
Spain	65,66	Myrtaceae	Eucalyptus nitens	189	101.2	65,66	(+)	+		
Spain	65,66	Oleaceae	Olea europaea	389	81.2	65,66	(+)	-	+	
Spain	65,66	Pinaceae	Abies alba	2276	140.1	65,66	(+)	+		
Spain	65,66	Pinaceae	Larix spp.	794	47.9	65,66	(-)	(+)	+	+
Spain	65,66	Pinaceae	Picea abies	94	75.4	65,66	(-)	+		
Spain	65,66	Pinaceae	Pinus canariensis	16044	174.0	65,66	+	+	+	

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
Spain	65,66	Pinaceae	Pinus halepensis	43615	102.8	65,66	(+)	+	+	+
Spain	65,66	Pinaceae	Pinus nigra	44291	95.5	65,66	+	+	+	+
Spain	65,66	Pinaceae	Pinus pinaster	76024	96.4	65,66	+	+	+	+
Spain	65,66	Pinaceae	Pinus pinea	14112	130.5	65,66	+	+	+	-
Spain	65,66	Pinaceae	Pinus radiata	11331	90.7	65,66	(-)	+	+	+
Spain	65,66	Pinaceae	Pinus sylvestris	87225	128.3	65,66	+	+	+	+
Spain	65,66	Pinaceae	Pinus uncinata	10735	127.3	65,66	-	+		
Spain	65,66	Rosaceae	Prunus spp.	223	49.3	65,66	(+)	+		
Spain	65,66	Rosaceae	Sorbus spp.	327	65.3	65,66	(-)	(+)		
Spain	65,66	Salicaceae	Populus alba	209	91.7	65,66	(-)	+		
Spain	65,66	Salicaceae	Populus nigra	1189	101.9	65,66	(-)	+		
Spain	65,66	Salicaceae	Populus tremula	454	90.5	65,66	+			
Spain	65,66	Salicaceae	Salix spp.	636	105.0	65,66	(-)	+	(+)	
Spain	65,66	Sapindaceae	Acer campestre	1091	89.1	65,66	(+)	+		
Spain	65,66	Taxaceae	Taxus baccata	40	107.6	65,66	(-)	+		
Spain	65,66	Ulmaceae	Ulmus minor	114	111.4	65,66	+			
United States (east)	67	Betulaceae	Betula alleghaniensis	1245	102.4	17	(+)	+		
United States (east)	67	Betulaceae	Betula lenta	244	60.2	17	+			
United States (east)	67	Betulaceae	Betula nigra	212	81.0	17	+	+		
United States (east)	67	Betulaceae	Betula papyrifera	1506	63.0	17	+	+	+	
United States (east)	67	Cornaceae	Nyssa aquatica	53	101.1	17	-			
United States (east)	67	Cornaceae	Nyssa sylvatica	682	75.7	17	+			
United States (east)	67	Cupressaceae	Juniperus virginiana	800	60.7	17	(-)	+		
United States (east)	67	Cupressaceae	Thuja occidentalis	4337	80.8	17	+	+		
United States (east)	67	Fabaceae	Gleditsia triacanthos	304	103.9	17	+	+		
United States (east)	67	Fabaceae	Robinia psuedoacacia	443	64.8	17	+	+		
United States (east)	67	Fagaceae	Fagus grandifolia	2130	109.5	17	+	+	+	
United States (east)	67	Fagaceae	Quercus alba	6583	127.8	17	(+)	+	+	+
United States (east)	67	Fagaceae	Quercus bicolor	210	100.6	17	+	+		
United States (east)	67	Fagaceae	Quercus coccinea	878	68.1	17	-	+	+	+
United States (east)	67	Fagaceae	Quercus ellipsoidalis	226	76.7	17	+	+	+	

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
United States (east)	67	Fagaceae	<i>Quercus falcata</i> var. <i>falcata</i>	249	100.1	17	+	+		
United States (east)	67	Fagaceae	<i>Quercus falcata</i> var. <i>pagodaefolia</i>	60	80.8	17	(-)	+		
United States (east)	67	Fagaceae	<i>Quercus imbricaria</i>	310	72.1	17	-	+	+	
United States (east)	67	Fagaceae	<i>Quercus macrocarpa</i>	224	116.8	17	+	+		
United States (east)	67	Fagaceae	<i>Quercus michauxii</i>	45	107.7	17	+	+		
United States (east)	67	Fagaceae	<i>Quercus muehlenbergii</i>	439	94.5	17	(+)	+	+	+
United States (east)	67	Fagaceae	<i>Quercus palustris</i>	584	138.7	17	(+)	+	+	
United States (east)	67	Fagaceae	<i>Quercus prinus</i>	1900	93.7	17	+	+	+	+
United States (east)	67	Fagaceae	<i>Quercus rubra</i>	4477	157.7	17	+	+	+	
United States (east)	67	Fagaceae	<i>Quercus shumardii</i>	62	104.9	17	+			
United States (east)	67	Fagaceae	<i>Quercus stellata</i>	711	74.4	17	+	+	+	
United States (east)	67	Fagaceae	<i>Quercus velutina</i>	3867	104.4	17	+	+	+	+
United States (east)	67	Hamamelidaceae	<i>Liquidambar styraciflua</i>	777	72.6	17	(+)	+		
United States (east)	67	Juglandaceae	<i>Carya cordiformis</i>	774	81.0	17	+	+		
United States (east)	67	Juglandaceae	<i>Carya glabra</i>	2060	95.8	17	(+)	+	+	
United States (east)	67	Juglandaceae	<i>Carya laciniosa</i>	74	68.3	17	+			
United States (east)	67	Juglandaceae	<i>Carya ovata</i>	1602	82.6	17	(-)	+	+	
United States (east)	67	Juglandaceae	<i>Carya tomentosa</i>	975	93.5	17	+	+		
United States (east)	67	Juglandaceae	<i>Juglans nigra</i>	1108	82.6	17	-	+	+	+
United States (east)	67	Lauraceae	<i>Sassafras albidum</i>	895	75.7	17	+	+	+	(+)
United States (east)	67	Magnoliaceae	<i>Liriodendron tulipifera</i>	3239	117.1	17	-	+	+	+

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
United States (east)	67	Magnoliaceae	<i>Magnolia acuminata</i>	98	55.1	17	+			
United States (east)	67	Malvaceae	<i>Tilia americana</i>	1571	122.7	17	+	+	+	
United States (east)	67	Moraceae	<i>Maclura pomifera</i>	174	61.7	17	+	+		
United States (east)	67	Oleaceae	<i>Fraxinus americana</i>	2354	137.2	17	-	+	+	+
United States (east)	67	Oleaceae	<i>Fraxinus nigra</i>	712	58.2	17	+	+		
United States (east)	67	Oleaceae	<i>Fraxinus pennsylvanica</i>	906	115.6	17	+	+		
United States (east)	67	Pinaceae	<i>Abies balsamea</i>	1227	40.1	17	+			
United States (east)	67	Pinaceae	<i>Larix laricina</i>	646	57.2	17	+	+		
United States (east)	67	Pinaceae	<i>Picea glauca</i>	759	73.9	17	(+)	+		
United States (east)	67	Pinaceae	<i>Picea mariana</i>	1124	49.8	17	+	+		
United States (east)	67	Pinaceae	<i>Picea rubens</i>	412	46.5	17	+			
United States (east)	67	Pinaceae	<i>Pinus banksiana</i>	1245	47.5	17	+	+		
United States (east)	67	Pinaceae	<i>Pinus echinata</i>	596	71.4	17	(-)	+		
United States (east)	67	Pinaceae	<i>Pinus resinosa</i>	2173	65.5	17	(-)	+	+	+
United States (east)	67	Pinaceae	<i>Pinus rigida</i>	299	46.2	17	+	+		
United States (east)	67	Pinaceae	<i>Pinus strobus</i>	2728	108.0	17	+	+		
United States (east)	67	Pinaceae	<i>Pinus taeda</i>	597	58.2	17	(+)	+		
United States (east)	67	Pinaceae	<i>Pinus virginiana</i>	921	55.4	17	+	+		
United States (east)	67	Pinaceae	<i>Tsuga canadensis</i>	2071	100.1	17	+	+	+	
United States (east)	67	Platanaceae	<i>Platanus occidentalis</i>	1073	133.9	17	-	+	+	
United States (east)	67	Rosaceae	<i>Prunus serotina</i>	1532	88.9	17	+	+	+	

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
United States (east)	67	Salicaceae	<i>Populus balsamifera</i>	381	82.8	17	+	+	+	
United States (east)	67	Salicaceae	<i>Populus deltoides</i>	648	147.1	17	-	+		
United States (east)	67	Salicaceae	<i>Populus grandidentata</i>	1242	66.5	17	+	+		
United States (east)	67	Salicaceae	<i>Populus tremuloides</i>	2270	62.5	17	+	+	+	
United States (east)	67	Salicaceae	<i>Salix nigra</i>	164	88.4	17	+			
United States (east)	67	Sapindaceae	<i>Acer negundo</i>	417	100.8	17	+	+		
United States (east)	67	Sapindaceae	<i>Acer rubrum</i>	7448	124.0	17	+	+	+	+
United States (east)	67	Sapindaceae	<i>Acer saccharinum</i>	1386	121.2	17	(+)	+	+	+
United States (east)	67	Sapindaceae	<i>Acer saccharum</i>	8681	113.3	17	+	+	+	
United States (east)	67	Sapindaceae	<i>Aesculus glabra</i>	85	61.7	17	(+)	+		
United States (east)	67	Ulmaceae	<i>Celtis occidentalis</i>	552	130.6	17	(+)	+	+	(+)
United States (east)	67	Ulmaceae	<i>Ulmus americana</i>	884	72.4	17	+	+		
United States (east)	67	Ulmaceae	<i>Ulmus rubra</i>	415	72.9	17	(+)	+	+	
United States (west)	68,69	Cupressaceae	<i>Calocedrus decurrens</i>	1587	176.0	17	(+)	+	+	+
United States (west)	68,69	Cupressaceae	<i>Chamaecyparis nootkatensis</i>	572	210.0	17	+	+	+	
United States (west)	68,69	Cupressaceae	<i>Thuja plicata</i>	284	240.7	17	+	+		
United States (west)	68,69	Fagaceae	<i>Quercus kelloggii</i>	422	97.8	17	(+)	+		
United States (west)	68,69	Pinaceae	<i>Abies amabilis</i>	2595	124.7	17	+	+	+	(+)
United States (west)	68,69	Pinaceae	<i>Abies concolor</i>	3248	166.8	17	+	+	+	
United States (west)	68,69	Pinaceae	<i>Abies magnifica</i>	1644	249.7	17	+	+	+	+
United States (west)	68,69	Pinaceae	<i>Abies procera</i>	205	230.2	17	+	+		

Country	Data ref.	Family	Species	# of trees	Max. tree diam. (cm)	Allom. ref.	Bin 1	Bin 2	Bin 3	Bin 4
United States (west)	68,69	Pinaceae	<i>Picea sitchensis</i>	409	270.5	17	+	+	(+)	+
United States (west)	68,69	Pinaceae	<i>Pinus albicaulis</i>	550	41.8	17	+			
United States (west)	68,69	Pinaceae	<i>Pinus balfouriana</i>	152	153.0	17	(+)			
United States (west)	68,69	Pinaceae	<i>Pinus contorta</i>	155	70.0	17	(+)	+		
United States (west)	68,69	Pinaceae	<i>Pinus jeffreyi</i>	99	136.6	17	+			
United States (west)	68,69	Pinaceae	<i>Pinus lambertiana</i>	564	196.9	17	+	+	+	+
United States (west)	68,69	Pinaceae	<i>Pinus monticola</i>	215	234.2	17	+	+	+	
United States (west)	68,69	Pinaceae	<i>Pinus ponderosa</i>	2191	175.5	17	+	+	+	
United States (west)	68,69	Pinaceae	<i>Pseudotsuga menziesii</i>	744	225.6	17	(+)	+	+	+
United States (west)	68,69	Pinaceae	<i>Tsuga heterophylla</i>	2253	190.8	17	+	+	+	+
United States (west)	68,69	Pinaceae	<i>Tsuga mertensiana</i>	188	115.1	17	(+)	+		

Data ref. = publication(s) describing our data source for each species; **Allom. ref.** = publication(s) from which we obtained allometric equations for each species. A “+” or “-” symbol in a numbered **Bin** column indicates that the model receiving the greatest weight of evidence by AIC included that bin (line segment); for example, a species having a symbol under **Bin 1** and **Bin 2** but not under **Bin 3** and **Bin 4** was fit with two line segments. “+” indicates that the line segment had a positive slope (mass growth rate increased with tree size within the bin); “-” indicates a negative slope. Symbols without parentheses indicate that the slope for that bin for that particular species was significant at $P \leq 0.05$.

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