

THE INTERNATIONAL TIMBER TRADE: A Working List of Commercial Timber Tree Species

By Jennifer Mark¹, Adrian C. Newton¹, Sara Oldfield² and Malin Rivers²

¹ Faculty of Science & Technology, Bournemouth University

² Botanic Gardens Conservation International



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Sapele sawn timber being put together at IFO in the Republic of Congo. Photo credit:
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Introduction

It is widely recognised that human activities are placing global biodiversity under increasing pressure^{1,2}. Tropical and temperate forests are amongst the world's most biodiverse ecosystems³, supporting over 50% of all terrestrial species⁴.

Forests also provide a multitude of ecosystem services, including maintenance of vital biogeochemical processes such as nutrient cycling, carbon sequestration, water filtration and localised climate control⁵. Some 350 million people around the world rely on forests for everyday subsistence⁶, and timber, food and medicinal forest species support multimillion dollar industries⁷. However, this wealth of biodiversity and ecosystem services remains at risk from deforestation and forest degradation⁸.

One of the first steps towards safeguarding forest biodiversity is to identify the species most at risk. To address this knowledge gap, Target 2 of the Global Strategy for Plant Conservation (GSPC) calls for “*an assessment of the conservation status of all known plant species*” by 2020⁹. Currently, conservation status assessments meeting the globally-recognised standards of the International Union for the Conservation of Nature (IUCN) Red List of Threatened Species¹⁰ have been carried out at the global level for approximately only 4% of known plant species¹¹. There is therefore an urgent need to conduct such assessments, particularly for ‘useful’ plants, including tree species valued for timber.

The World Bank estimates that the trade in timber products contributes some \$468 billion annually to global GDP¹². Timber trees also provide numerous critical ecosystem services. However, despite the escalating threats to timber species from land conversion, illegal trade and unsustainable logging, we lack up-to-date conservation status assessments for many of these species.

A compounding problem is the lack of documentation regarding which tree species are actively being harvested for commercial trade. There is currently no unified database of commercially harvested timber tree species, though numerous different lists exist with varying degrees of overlap.

Summary

Purpose

The purpose of this publication is to provide a composite working list of timber tree species in trade, by integrating different species lists from seventeen different sources. Each taxon is listed by scientific binomial or trinomial and family. The sources used to compile the working list are described, together with information on the author / publishing organisation of each source, and where it can be accessed. This information is intended to be of use to taxonomists; botanical, conservation and ecological researchers; timber-sourcing organisations; woodworkers; and other interested parties.

It should be noted that this list does not constitute a definitive statement regarding which tree species are traded for timber. This reflects the fact that information relating to the use of timber tree species is poorly documented and highly fragmentary. As many different lists of such species have been produced, the purpose of this publication is to provide a readily accessible summary of this information, to help identify those species for which a strong consensus exists regarding their use for timber, and those for which information is lacking. This working list is provided to encourage further research and assessment, to determine with greater precision the use of different tree species for timber.

Aims

- Provide an integrated list of open access (or easily accessible) sources supplying information on commercial timber tree species.

- Provide an overview of which tree species are currently harvested and traded commercially on the international timber market.

Considerations for using the Working List

1. Choosing source lists to compile

There are numerous existing timber species lists, from published IUCN Red List assessments to national trade inventories. However, these lists were created for a variety of different purposes, with different degrees of reliability and a varying degree of overlap. It was decided to base the following working list on a thorough review of contemporary open-access resources, including regularly-updated web databases, which list commercial timbers. The decision to omit the IUCN Red List database from these consolidated source lists is explained in greater detail in Section 1.

2. How well does the working list reflect current trade?

Although the global timber trade is of current and historic importance, it is poorly documented and, consequently, information on which tree species are harvested is sparse and often difficult to access. With this in mind, it was decided that a list incorporating data from a diverse range of recent trade-related resources would provide a useful indication of current species in international trade. This approach enables species to be identified for which a high degree of consensus exists regarding their use as timber. However, the list unavoidably incorporates a high degree of uncertainty, and this should be borne in mind when interpreting the results.

This working list is intended to give a current overview of commercial timbers on the international market. However, trade in any species waxes and wanes with customer demand and species availability. Therefore, it should be acknowledged that any list will require future updates to reflect changes in the trade. The following working list should therefore be considered as a work in progress rather than a definitive statement.

3. Nomenclature

The names that woods are traded under do not always follow conventional scientific notation. Rather, it is common practice to trade a species under a product type (e.g. 'sawn logs'), or by a common name, which may differ between countries and regions. Trade lists of timber trees described by full Latin binomial are therefore in the minority. This presents a problem when identifying timber species, so to maximise reliability, this working list is compiled from only those sources that use the full Latin binomial or trinomial.

4. Product types

Timber can be broadly divided into two product groups: a) timber valued for construction qualities such as strength, flexibility or durability; b) timber valued for aesthetic qualities such as colour, patterning or acoustic properties (e.g. in woods used to make musical instruments). Additionally, a timber may be favoured for traditional reasons, for example because its use historically signified wealth or prestige. Some of the species in the working list may have other major commercial uses, for example as fruit trees. These species may be secondarily used for timber products, such as veneers.

5. Illegally traded species

Despite advances in certification and tracking of wood products from place of harvest to end product, there is still a flourishing illegal trade in timber species. The sources used for this working list do not explicitly focus on illegally traded species, with the exception of species listed on Appendix III of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)¹³. However, consumer demand for timbers with certain desirable aesthetic and construction qualities fuels both illegal and legal trade. Therefore, it seems likely that illegally logged taxa will be represented in the working list.

6. Updates

As a working list, this species list is intended to evolve and to be refined by users. We welcome relevant information on the timber species listed, or on any commercial timber species that have been unintentionally omitted.

Section Guide

Section 1 explains the methods and rationale behind this publication.

Section 2 provides a description of each of the resources used.

Section 3 is a working list of commercial timber species, compiled from seventeen open-access resources published by conservation organisations, commercial companies, and taxonomic and woodwork databases.

Section 1: Methods and Rationale

Rationale - Which tree species are internationally traded for timber?

Our original intention was to base this list on the list of timber species previously assessed for the IUCN Red List, primarily those included in *The World List of Threatened Trees* (Oldfield *et al.*, 1998)¹⁴. However, after consultation with TRAFFIC¹⁵ and the IUCN¹⁶, it became apparent that these previous assessments may not accurately reflect species currently in trade. It was concluded that a more representative list might be compiled using more recent data, including CITES-listed timber tree species; trade reports; and publications from conservation organisations. The current integrated list is based on such sources.

We have also included independently run databases such as woodexplorer.com and thewooddatabase.com, used by taxonomists and woodworkers interested in identifying commercial timber products to species level. Some of these resources are regularly updated and may benefit from crowd-sourcing user's comments to rapidly detect and correct errors.

In addition to the well-known timber trade authorities CITES, TRAFFIC, the International Tropical Timber Organisation (ITTO) and L'Association Technique Internationale des Boix Tropicaux (ATIBT), it was decided to include species lists from organisations with a focus on legal sourcing of timber, including Nature Ecology and People Consult (NEPCon), the Forest Stewardship Council (FSC), Greenpeace and the World Wide Fund for Nature (WWF). The former two organisations work directly with private sector sourcing companies, therefore should be indicative of what is actually in trade.

Methods

1. List compilation

Taxa lists were extracted from seventeen open-access sources (see Section 2 for a description of each source) and combined into a single list using Microsoft Excel¹⁷.

2. Data cleaning and taxonomic checks

First, the composite list was cleaned to remove duplicates, genus-only listings and common/trade names. Next, *The Plant List*¹⁸ was used as a taxonomic reference to check for synonymy and spelling errors.

3. Ranking

To check reliability, we attempted to trace the initial origin of each species list used. In some cases it was impossible to determine exact origins. Therefore, each species was ranked by the number of sources in which it was featured (for full ranked list, see Appendix II – Microsoft Excel spreadsheet). Taxa appearing in only one resource were excluded from the final published working list. By listing only those taxa appearing in two or more resources, we minimised the chance of erroneously including non-timbers.

4. Removing gymnosperms

Gymnosperm taxa were removed from the compiled list using *The Gymnosperm Database*¹⁹ as a taxonomic reference. They are presented in Appendix I.

Section 2: Resources List

The following seventeen resources were produced by international development, conservation and forest certification organisations; consultants on the timber trade; national forestry departments; taxonomists; and woodworkers.

Table 1 - Resources used to compile working list of commercial timbers

Resource name	Organisation / Author	Date published / version used	Will resource be updated in future?
CITES Appendices I, II, III	Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)	2013	Yes - CITES member states convene every 3 years at a Conference of the Parties (CoP). Amendments to Appendices I & II must be made at a CoP. Species may be added or removed from Appendix III at any time.
Resource description	The CITES Appendices are lists of species of fauna and flora, including some timber tree species, that are or may soon become threatened with extinction. CITES affords these species different levels of protection from over-exploitation by regulating their commercial trade.		
Available from	http://www.cites.org/eng/app/appendices.php		
Good Wood Guide	Greenpeace	2004	Not updated
Resource description	Consumer guide listing traditionally-harvested timbers together with more sustainable, FSC certified alternatives. Provides information on IUCN Red List status of the 'traditional' species.		
Available from	http://www.greenpeace.org.uk/MultimediaFiles/Live/FullReport/6759.pdf		
FSC Species Terminology	Forest Stewardship Council (FSC)	2007	Not updated
Resource description	A compilation of tree species commonly used in international trade, giving both scientific and common names, as well as synonyms. Updates discontinued. For more information, please contact FSC.		
Available from	FSC_STD_40_004b_V1_0_EN_FSC_Species_Terminology.pdf		
Good Wood Guide Checklist	Friends of the Earth; Fauna and Flora International	Unknown	Not updated
Resource description	Consumer guide to sustainably-sourced wood for construction (or similar) projects. Lists timber species by common and scientific name, and provides information on uses, geographic origin and global threat status (according to the IUCN Red List and CITES).		
Available from	http://www.foe.co.uk/campaigns/biodiversity/resource/good_wood_guide/wood_timber_types_a_to_g.html		

Resource name	Organisation / Author	Date / Version	Will resource be updated in future?
An assessment of tree species which warrant listing in CITES	Hewitt, J	2007	Not updated
Resource description	Report prepared for Milieudefensie (Friends of the Earth, Netherlands), giving case studies of 17 commercial timber species considered to warrant CITES listing due to perceived threat from unsustainable or illegal trade. Also provides information on 4 CITES-listed species.		
Available from	https://milieudefensie.nl/publicaties/rapporten/an-assessment-of-tree-species-which-warrant-listing-in-cites		

Annual review and assessment of the world timber situation - Appendix 3: Major tropical species traded in 2010 and 2011	International Tropical Timber Organization (ITTO)	2012	Yes – this publication is now produced biannually (since 2013).
Resource description	ITTO Annual Reviews provide statistics on global production and trade in timber, with main focus on tropical regions. They utilise data submitted by ITTO member countries. Appendix 3 of the 2012 report gives common and scientific names of the major tropical timber species in trade (2010-2011).		
Available from	http://www.itto.int/annual_review/		

Nomenclature générale des bois tropicaux (p.2-40)	L'Association Technique Internationale des Bois Tropicaux (ATIBT)	2013	Future updates possible
Resource description	Internationally-recognised nomenclature linking common name to correct scientific name for commercially traded tropical timber species. Common name given is that under which each species is traded by the main country of export or import. An English language version of this document is available on request from ATIBT.		
Available from	http://www.atibt.org/wp-content/uploads/2013/06/Nomenclature-ATIBT-26062013.pdf		

NEPCon LegalSource™ Due Diligence System	NEPCon	2013	Not updated
Resource description	NEPCon's LegalSource™ Due Diligence System provides resources for client organisations wanting to ensure legal timber sourcing. Online guidance material includes an example list of timber species in trade. Registration is required to access this resource.		
Available from	http://www.nepcon.net/5174/English/Certification/Timber_legality_services/Due_diligence_system/		

Resource name	Organisation / Author	Date / Version	Will resource be updated in future?
Commercial timbers: descriptions, illustrations, identification and information retrieval	Richter, H.G. and Dallwitz, M.J.	Dates from 2000. Version: 25 th June 2009	Future updates possible
Resource description	Database of common hardwood timber species in international trade. Provides taxa descriptions and an interactive identification system for 350+ commercial timbers.		
Available from	http://delta-intkey.com		

Wood Species Database	The Timber Research and Development Association (TRADA)	Version: 2002-2014	Future updates likely
Resource description	A searchable, illustrated database of 150+ commercial timber species, including information on mechanical properties and common end uses of each wood. Registration (free) is required to access this resource.		
Available from	http://www.trada.co.uk/techinfo/tsg		

The Wood Database	Meier, E	Version: 2014	Yes – resource continues to be updated
Resource description	Comprehensive database for woodworkers, searchable by scientific name, common name or wood appearance. Species-specific information on general distribution, average tree size, appearance and mechanical properties of wood. A regularly updated resource.		
Available from	http://www.wood-database.com/wood-identification/by-scientific-name/		

Timber species imported into the UK	Timber Trade Federation (TTF)	2009	Not updated
Resource description	Guide to UK timber species imports, divided into three categories: natural forest hardwoods, natural forest softwoods and plantation species. The guide also details which of these taxa are CITES-listed. Non-TTF members will need to request access to this resource.		
Available from	http://www.ttf.co.uk/Article/Detail.aspx?ArticleUid=ee39cec8-21b6-4be4-9361-6001612c7190		

Resource name	Organisation / Author	Date / Version	Will resource be updated in future?
Precious woods: Exploitation of the finest timber (p.36-45)	TRAFFIC	2012	Not updated
Resource description	Report on high value timbers, commissioned by Chatham House as a background paper for their meeting: ' <i>Tackling the Trade in Illegal Precious Woods</i> ' on 23-24 April 2012.		
Available from	http://www.illegal-logging.info/sites/default/files/uploads/PreciousWoodsbackgroundpaper1ThetradeinpreciouswoodsTRAFFIC.pdf		

Wood Properties Techsheets	United States Department of Agriculture Forest Products Laboratory	Publication date unknown	Unlikely to be updated
Resource description	Four 'Techsheets': Lesser known woods; North American hardwoods; North American softwoods; tropical hardwoods. Provide information on distribution, commercial use, wood mechanical properties and appearance of selected timber taxa.		
Available from	http://www.fpl.fs.fed.us/research/centers/woodanatomy/		

The Wood Explorer	The Wood Explorer, Inc.	Version: 2014	Yes – resource continues to be updated
Resource description	Free access to a searchable list of 1650 commercial species, including scientific, trade and common names. Species pages include common end uses and a description of both tree and wood properties. Additional data available for a fee.		
Available from	http://www.thewoodexplorer.com/species.html		

Woodworkers Source Wood Library	Woodworkers Source	2008	Future updates likely
Resource description	Database of commercial timber species, listed by scientific and common name. Species-specific information on timber end uses, geographic region, wood working properties, and appearance of tree and wood.		
Available from	http://www.woodworkerssource.com/wood_library.php		

Guide to lesser-known tropical timber species (p.4-86)	World Wildlife Fund (WWF) Global Forest & Trade Network	2013	Not updated
Resource description	Consumer guide to lesser-known species as alternatives for traditionally-sourced timbers. Provides information on IUCN Red List status of the traditional species, and possible end uses of the lesser-known species profiled.		
Available from	wwf_gftn_lkts_guide_final_oct_2013.pdf		

Section 3: Timber tree species working list

The following is a working list of 1,575 timber taxa, listed alphabetically by family. A full breakdown of the number of resources in which each taxon was listed, as well as resource identity (see Table 1 above for a description of each resource used) is provided in Appendix II.

Family:	Scientific name:
<i>Achariaceae</i>	<i>Scottellia coriacea</i>
	<i>Scottellia kamerunensis</i>
<i>Altingiaceae</i>	<i>Altingia excelsa</i>
	<i>Liquidambar formosana</i>
	<i>Liquidambar styraciflua</i>
<i>Anacardiaceae</i>	<i>Anacardium excelsum</i>
	<i>Anacardium giganteum</i>
	<i>Anacardium occidentale</i>
	<i>Anacardium spruceanum</i>
	<i>Antrocaryon klaineum</i>
	<i>Antrocaryon micraster</i>
	<i>Astronium fraxinifolium</i>
	<i>Astronium graveolens</i>
	<i>Astronium lecointei</i>
	<i>Astronium urundeuva</i>
	<i>Buchanania arborescens</i>
	<i>Buchanania latifolia</i>
	<i>Camptosperma auriculatum</i>
	<i>Camptosperma brevipetiolatum</i>
	<i>Camptosperma coriaceum</i>
	<i>Camptosperma montanum</i>
	<i>Camptosperma panamense</i>
	<i>Camptosperma squamatum</i>
	<i>Dracontomelon costatum</i>
	<i>Dracontomelon dao</i>
	<i>Dracontomelon lenticulatum</i>
	<i>Euroschinus vieillardii</i>
	<i>Gluta curtisii</i>
	<i>Gluta papuana</i>
	<i>Gluta renghas</i>
	<i>Gluta tourtour</i>
	<i>Gluta wallichii</i>
	<i>Koordersiodendron pinnatum</i>
	<i>Lanea coromandelica</i>
	<i>Lanea welwitschii</i>

Loxopterygium sagotii
Mangifera altissima
Mangifera caloneura
Mangifera foetida
Mangifera indica
Mangifera mucronulata
Mangifera salomonensis
Metopium brownei
Parishia insignis
Rhus typhina
Schinopsis balansae
Schinopsis lorentzii
Schinopsis quebracho-colorado
Schinus molle
Spondias mombin
Swintonia floribunda
Swintonia schwenckii
Swintonia spicifera
Tapirira guianensis

Anisophylleaceae

Combretocarpus rotundatus
Poga oleosa

Annonaceae

Annickia chlorantha
Anonidium mannii
Cananga odorata
Cleistopholis glauca
Cleistopholis patens
Duguetia confinis
Duguetia staudtii
Mezzettia parviflora
Oxandra lanceolata
Polyalthia fragrans
Polyalthia oblongifolia

Apocynaceae

Alstonia actinophylla
Alstonia angustifolia
Alstonia angustiloba
Alstonia boonei
Alstonia congensis
Alstonia macrophylla
Alstonia scholaris
Alstonia spatulata
Aspidosperma album
Aspidosperma desmanthum
Aspidosperma megalocarpon
Aspidosperma polyneuron

Aspidosperma quebracho-blanco
Aspidosperma tomentosum
Aspidosperma vargasii
Cerbera odollam
Couma macrocarpa
Dyera costulata
Dyera polyphylla
Funtumia africana
Gonioma kamassi
Wrightia arborea
Wrightia pubescens

Aquifoliaceae

Ilex aggregata
Ilex amplifolia
Ilex anomala
Ilex aquifolium
Ilex boliviana
Ilex laurina
Ilex mitis
Ilex opaca
Ilex petiolaris

Araliaceae

Dendropanax arboreus
Dendropanax cuneatus
Kalopanax septemlobus
Polyscias ornifolia
Schefflera decaphylla
Schefflera morototoni

Areaceae

Beccariophoenix madagascariensis
Borassus flabellifer
Caryota urens
Cocos nucifera
Dypsis decaryi
Dypsis decipiens
Lemurophoenix halleuxii
Marojejya darianii
Oenocarpus bataua
Ravenea louvelii
Ravenea rivularis
Satranala decussilvae

Asteropeiaceae

Asteropeia rhopaloides

Atherospermataceae

Atherosperma moschatum
Doryphora sassafras
Laurelia novae-zelandiae

Laurelia sempervirens
Laureliopsis philippiana

Berberidaceae

Sinopodophyllum hexandrum

Betulaceae

Alnus glutinosa
Alnus incana
Alnus nepalensis
Alnus rubra
Betula alleghaniensis
Betula alnoides
Betula lenta
Betula maximowicziana
Betula nigra
Betula papyrifera
Betula pendula
Betula populifolia
Betula pubescens
Betula schmidtii
Carpinus betulus
Carpinus caroliniana
Corylus avellana
Corylus colurna
Ostrya virginiana

Bignoniaceae

Catalpa bignonioides
Catalpa speciosa
Daniella thurifera
Daniellia klainei
Handroanthus capitatus
Handroanthus guayacan
Handroanthus heptaphyllus
Handroanthus serratifolius
Jacaranda acutifolia
Jacaranda caroba
Jacaranda copaia
Jacaranda cuspidifolia
Jacaranda micrantha
Jacaranda mimosifolia
Jacaranda obtusifolia subsp. *rhombofolia*
Jacaranda obtusifolia
Jacaranda puberula
Kigelia africana
Paratecoma peroba
Phyllarthron madagascariense
Roseodendron donnell-smithii
Spathodea campanulata

	<i>Tabebuia insignis</i>
	<i>Tabebuia pallida</i>
	<i>Tabebuia rosea</i>
Bixaceae	<i>Bixa arborea</i>
	<i>Bixa orellana</i>
Boraginaceae	<i>Cordia africana</i>
	<i>Cordia alliodora</i>
	<i>Cordia americana</i>
	<i>Cordia collococca</i>
	<i>Cordia dichotoma</i>
	<i>Cordia dodecandra</i>
	<i>Cordia elaeagnoides</i>
	<i>Cordia fragrantissima</i>
	<i>Cordia gerascanthus</i>
	<i>Cordia glabrata</i>
	<i>Cordia goeldiana</i>
	<i>Cordia millenii</i>
	<i>Cordia platythyrsa</i>
	<i>Cordia sebestena</i>
	<i>Cordia subcordata</i>
	<i>Cordia trichotoma</i>
Burseraceae	<i>Aucoumea klaineana</i>
	<i>Bursera simaruba</i>
	<i>Canarium euphyllum</i>
	<i>Canarium hirsutum</i>
	<i>Canarium indicum</i>
	<i>Canarium littorale</i>
	<i>Canarium luzonicum</i>
	<i>Canarium schweinfurtii</i>
	<i>Dacryodes buettneri</i>
	<i>Dacryodes excelsa</i>
	<i>Dacryodes igaganga</i>
	<i>Garuga pinnata</i>
	<i>Protium altsonii</i>
	<i>Protium decandrum</i>
	<i>Protium sagotianum</i>
	<i>Santiria laevigata</i>
	<i>Tetragastris altissima</i>
	<i>Tetragastris panamensis</i>
Buxaceae	<i>Buxus macowanii</i>
	<i>Buxus sempervirens</i>
Calophyllaceae	<i>Mammea africana</i>

	<i>Mammea americana</i>
	<i>Mesua ferrea</i>
Canellaceae	<i>Warburgia ugandensis</i>
Cannabaceae	<i>Aphananthe philippinensis</i>
	<i>Celtis adolfi-friderici</i>
	<i>Celtis laevigata</i>
	<i>Celtis laevigata</i> var. <i>reticulata</i>
	<i>Celtis mildbraedii</i>
	<i>Celtis occidentalis</i>
	<i>Celtis philippensis</i>
	<i>Celtis rigescens</i>
	<i>Celtis zenkeri</i>
	<i>Trema orientalis</i>
Caryocaraceae	<i>Caryocar costaricense</i>
	<i>Caryocar glabrum</i>
	<i>Caryocar nuciferum</i>
	<i>Caryocar villosum</i>
Casuarinaceae	<i>Casuarina cunninghamiana</i>
	<i>Casuarina equisetifolia</i>
Celastraceae	<i>Kokoona littoralis</i>
	<i>Kokoona reflexa</i>
	<i>Lophopetalum beccarianum</i>
	<i>Lophopetalum duperreanum</i>
	<i>Lophopetalum floribundum</i>
	<i>Lophopetalum javanum</i>
	<i>Lophopetalum multinervium</i>
	<i>Lophopetalum pachyphyllum</i>
	<i>Lophopetalum pallidum</i>
	<i>Lophopetalum rigidum</i>
	<i>Lophopetalum subobovatum</i>
	<i>Lophopetalum wightianum</i>
	<i>Siphonodon australis</i>
Cercidiphyllaceae	<i>Cercidiphyllum japonicum</i>
Chrysobalanaceae	<i>Licania divaricata</i>
	<i>Licania heteromorpha</i>
	<i>Licania hypoleuca</i>
	<i>Licania macrophylla</i>
	<i>Licania platypus</i>
	<i>Licania sparsipilis</i>
	<i>Licaria capitata</i>

Parinari campestris
Parinari curatellifolia
Parinari excelsa

Clusiaceae

Calophyllum brasiliense
Calophyllum ferrugineum
Calophyllum inophyllum
Calophyllum papuanum
Calophyllum peekelii
Calophyllum tetrapterum
Calophyllum tomentosum
Calophyllum vitiense
Garcinia cowa
Pentadesma butyracea
Platonia insignis
Symphonia globulifera

Combretaceae

Anogeissus acuminata
Anogeissus latifolia
Buchenavia tetraphylla
Bucida buceras
Combretum imberbe
Conocarpus erectus
Pteleopsis hydodendron
Pteleopsis myrtifolia
Terminalia alata
Terminalia amazonia
Terminalia arjuna
Terminalia bellirica
Terminalia bialata
Terminalia brassii
Terminalia calamansanay
Terminalia catappa
Terminalia celebica
Terminalia chebula
Terminalia complanata
Terminalia guyanensis
Terminalia ivorensis
Terminalia macroptera
Terminalia microcarpa
Terminalia nitens
Terminalia oblonga
Terminalia paniculata
Terminalia procera
Terminalia solomonensis
Terminalia superba
Terminalia tomentosa

Compositae	<i>Brachylaena huillensis</i> <i>Brachylaena merana</i> <i>Brachylaena ramiflora</i>
Convolvulaceae	<i>Humbertia madagascariensis</i>
Cornaceae	<i>Alangium meyeri</i> <i>Cornus florida</i> <i>Nyssa aquatica</i> <i>Nyssa ogeche</i> <i>Nyssa sylvatica</i>
Ctenolophonaceae	<i>Ctenolophon englerianus</i> <i>Ctenolophon parvifolius</i>
Cunoniaceae	<i>Ceratopetalum succirubrum</i> <i>Eucryphia cordifolia</i> <i>Eucryphia lucida</i> <i>Geissois benthamiana</i> <i>Geissois biagiana</i> <i>Weinmannia trichosperma</i>
Dilleniaceae	<i>Dillenia excelsa</i> <i>Dillenia indica</i> <i>Dillenia luzoniensis</i> <i>Dillenia ovata</i> <i>Dillenia papuana</i> <i>Dillenia pentagyna</i> <i>Dillenia philippinensis</i> <i>Dillenia pulchella</i> <i>Dillenia reticulata</i> <i>Dillenia salomonensis</i> <i>Dillenia schlechteri</i>
Dipterocarpaceae	<i>Anisoptera costata</i> <i>Anisoptera curtisii</i> <i>Anisoptera laevis</i> <i>Anisoptera marginata</i> <i>Anisoptera scaphula</i> <i>Anisoptera thurifera</i> <i>Balanocarpus heimii</i> <i>Cotylelobium burckii</i> <i>Cotylelobium lanceolatum</i> <i>Cotylelobium melanoxydon</i> <i>Dipterocarpus acutangulus</i> <i>Dipterocarpus alatus</i>

Dipterocarpus basilanicus
Dipterocarpus baudii
Dipterocarpus borneensis
Dipterocarpus caudiferus
Dipterocarpus costulatus
Dipterocarpus grandiflorus
Dipterocarpus kerrii
Dipterocarpus lowii
Dipterocarpus retusus
Dipterocarpus validus
Dipterocarpus verrucosus
Dryobalanops beccarii
Dryobalanops lanceolata
Dryobalanops oblongifolia
Dryobalanops sumatrensis
Hopea acuminata
Hopea beccariana
Hopea dryobalanoides
Hopea ferrea
Hopea forbesii
Hopea foxworthyi
Hopea helferi
Hopea iriana
Hopea mengarawan
Hopea nervosa
Hopea nutans
Hopea odorata
Hopea sangal
Hopea scaphula
Hopea semicuneata
Neobalanocarpus heimii
Parashorea aptera
Parashorea densiflora
Parashorea lucida
Parashorea macrophylla
Parashorea malaanonan
Parashorea parvifolia
Parashorea plicata
Parashorea smythiesii
Parashorea tomentella
Pentacme contorta
Shorea acuminata
Shorea acuminatissima
Shorea albida
Shorea assamica
Shorea atrinervosa
Shorea balangeran

Shorea balanocarpoides
Shorea bracteolata
Shorea brunnescens
Shorea collina
Shorea contorta
Shorea crassa
Shorea curtisii
Shorea dasyphylla
Shorea dealbata
Shorea exelliptica
Shorea faguetiana
Shorea foxworthyi
Shorea gibbosa
Shorea glauca
Shorea guiso
Shorea havilandii
Shorea hemsleyana
Shorea hopeifolia
Shorea hypochra
Shorea javanica
Shorea johorensis
Shorea kalunti
Shorea kunstleri
Shorea laevifolia
Shorea laevis
Shorea lamellata
Shorea lepidota
Shorea leprosula
Shorea leptoclados
Shorea leptoderma
Shorea longipetala
Shorea macrantha
Shorea macroptera
Shorea materialis
Shorea maxwelliana
Shorea multiflora
Shorea negrosensis
Shorea ochrophloia
Shorea ovalis
Shorea ovata
Shorea parvifolia
Shorea pauciflora
Shorea plagata
Shorea platyclados
Shorea quadrinervis
Shorea resina-nigra
Shorea roxburghii

Shorea rugosa
Shorea seminis
Shorea singkawang
Shorea smithiana
Shorea stellata
Shorea submontana
Shorea sumatrana
Shorea superba
Upuna borneensis
Vatica rassak
Vatica scaphula
Vatica tonkinensis

Ebenaceae

Diospyros celebica
Diospyros crassiflora
Diospyros discolor
Diospyros ebenum
Diospyros gracilipes
Diospyros insularis
Diospyros korthalsiana
Diospyros kurzii
Diospyros lotus
Diospyros marmorata
Diospyros melanoxylon
Diospyros mespiliformis
Diospyros mindanaensis
Diospyros mollis
Diospyros perrieri
Diospyros pyrrocarpa
Diospyros toxicaria
Diospyros vera
Diospyros virginiana

Elaeagnaceae

Elaeagnus angustifolia

Ericaceae

Arbutus menziesii
Arbutus unedo
Kalmia latifolia
Oxydendrum arboreum

Erythroxylaceae

Erythroxylum mannii

Euphorbiaceae

Alchornea triplinervia
Aleurites moluccanus
Balakata baccata
Balakata luzonica
Croton megalocarpus

Elateriospermum tapos
Endospermum diadenum
Endospermum macrophyllum
Endospermum medullosum
Endospermum moluccanum
Endospermum peltatum
Excoecaria agallocha
Falconeria insignis
Glycydendron amazonicum
Gymnanthes lucida
Hevea brasiliensis
Hura crepitans
Hura polyandra
Ricinodendron heudelotii
Sapium glandulosum
Sapium haematospermum
Sapium jenmannii
Sapium laurifolium
Sapium laurocerasus
Sapium marmieri
Sapium stylare
Schinziophyton rautanenii
Sclerocroton integerrimus
Shirakiopsis elliptica
Shirakiopsis indica
Spirostachys africana
Triadica cochinchinensis

Fagaceae

Castanea crenata
Castanea dentata
Castanea sativa
Castanopsis acuminatissima
Castanopsis argentea
Castanopsis cuspidata
Castanopsis javanica
Castanopsis tungurrut
Chrysolepis chrysophylla
Fagus grandifolia
Fagus sylvatica
Lithocarpus amygdalifolius
Lithocarpus cyrtorhyncha
Lithocarpus daphnoideus
Lithocarpus henryi
Lithocarpus solerianus
Lithocarpus vinkii
Notholithocarpus densiflorus
Quercus acuta

Quercus alba
Quercus arkansana
Quercus bicolor
Quercus cerris
Quercus chrysolepis
Quercus coccinea
Quercus dentata
Quercus falcata
Quercus garryana
Quercus kelloggii
Quercus lobata
Quercus lyrata
Quercus macrocarpa
Quercus michauxii
Quercus mongolica
Quercus mongolica subsp. crispula
Quercus montana
Quercus muehlenbergii
Quercus myrsinifolia
Quercus palustris
Quercus petraea
Quercus phillyreoides
Quercus robur
Quercus rubra
Quercus shumardii
Quercus stellata
Quercus velutina
Quercus virginiana

Gentianaceae

Fagraea crenulata
Fagraea elliptica
Fagraea fragrans
Fagraea gracilipes

Goupiaceae

Goupia glabra

Hamamelidaceae

Exbucklandia populnea
Hamamelis virginiana

Hernandiaceae

Hazomalania voyronii

Humiriaceae

Endopleura uchi
Humiria balsamifera
Sacoglottis cydonioides
Sacoglottis gabonensis
Sacoglottis guianensis

Hypericaceae

Cratoxylum arborescens
Cratoxylum formosum
Harungana madagascariensis

Irvingiaceae

Irvingia gabonensis
Irvingia grandifolia
Irvingia malayana
Klainedoxa gabonensis

Juglandaceae

Carya alba
Carya aquatica
Carya cordiformis
Carya glabra
Carya illinoensis
Carya laciniata
Carya myristiciformis
Carya ovata
Engelhardtia roxburghiana
Juglans australis
Juglans boliviana
Juglans cinerea
Juglans hindsii
Juglans jamaicensis
Juglans neotropica
Juglans nigra
Juglans olanchana
Juglans regia

Lamiaceae

Gmelina arborea
Gmelina fasciculiflora
Gmelina leichardtii
Gmelina moluccana
Peronema canescens
Tectona grandis
Vitex cofassus
Vitex doniana
Vitex gaumeri
Vitex glabrata
Vitex micrantha
Vitex parviflora
Vitex phaeotricha
Vitex pinnata
Vitex quinata
Vitex triflora
Vitex turczaninowii
Vitex vestita

Lauraceae

Alseodaphne archboldiana
Alseodaphne malabonga
Aniba canellila
Aniba parviflora
Aniba rosaeodora
Aspidostemon perrieri
Beilschmiedia letouzeyi
Beilschmiedia mannii
Beilschmiedia tawa
Beilschmiedia velutina
Chlorocardium rodiei
Cinnamomum camphora
Cinnamomum iners
Cinnamomum porrectum
Endiandra laxiflora
Endiandra palmerstonii
Eusideroxylon melagangai
Eusideroxylon zwageri
Licaria canella
Licaria subbullata
Litsea ferruginea
Litsea reticulata
Mezilaurus ita-uba
Mezilaurus lindaviana
Mezilaurus navalium
Nectandra lanceolata
Nectandra megapotamica
Nothaphoebe elata
Nothaphoebe kingiana
Nothaphoebe panduriformis
Nothaphoebe spathulata
Nothaphoebe umbelliflora
Ocotea comoriensis
Ocotea porosa
Ocotea puberula
Ocotea thouvenotii
Ocotea usambarensis
Persea lingue
Persea odoratissima
Phoebe elongata
Phoebe hainesiana
Sassafras albidum
Sextonia rubra
Umbellularia californica

Lecythidaceae

Allantoma integrifolia

Allantoma pluriflora
Barringtonia acutangula
Bertholletia excelsa
Cariniana domestica
Cariniana estrellensis
Cariniana legalis
Cariniana pyriformis
Couratari guianensis
Couratari macrosperma
Couratari multiflora
Couratari oblongifolia
Couratari stellata
Couroupita guianensis
Couroupita nicaraguarensis
Eschweilera sagotiana
Lecythis lurida
Petersianthus macrocarpus
Planchonia papuana
Planchonia valida
Scytopetalum tieghemii

Leguminosae

Acacia auriculiformis
Acacia crassicarpa
Acacia decurrens
Acacia koa
Acacia mangium
Acacia mearnsii
Acacia melanoxylon
Acacia nilotica
Acacia pubescens
Acosmium panamense
Acrocarpus fraxinifolius
Adenanthera pavonina
Afzelia africana
Afzelia bella
Afzelia bipindensis
Afzelia pachyloba
Afzelia quanzensis
Afzelia rhomboidea
Afzelia xylocarpa
Albizia adianthifolia
Albizia antunesiana
Albizia ferruginea
Albizia guachapele
Albizia gummifera
Albizia lebbeck
Albizia lebbekoides

Albizia pedicellaris
Albizia procera
Albizia saman
Albizia versicolor
Albizia zygia
Alexa grandiflora
Alexa imperatricis
Alexa wachenheimii
Amblygonocarpus andongensis
Amburana cearensis
Amphimas ferrugineus
Amphimas pterocarpoides
Andira coriacea
Andira inermis
Aphanocalyx heitzii
Apuleia leiocarpa
Archidendropsis xanthoxylon
Baikiaea insignis
Baikiaea plurijuga
Baphia nitida
Batesia floribunda
Berlinia auriculata
Berlinia bracteosa
Berlinia confusa
Berlinia grandiflora
Bobgunnia fistuloides
Bobgunnia madagascariensis
Bowdichia nitida
Bowdichia virgilioides
Brachystegia cynometroides
Brachystegia eurycoma
Brachystegia laurentii
Brachystegia leonensis
Brachystegia mildbraedii
Brachystegia nigerica
Brachystegia spiciformis
Brachystegia zenkeri
Burkea africana
Caesalpinia echinata
Caesalpinia ferrea
Caesalpinia granadillo
Caesalpinia paraguariensis
Caesalpinia platyloba
Calpocalyx heitzii
Cassia javanica
Castanospermum australe
Cedrelinga cateniformis

Centrolobium ochroxylon
Centrolobium paraense
Centrolobium paraense var. *orenocense*
Chamaecrista apoucouita
Clathrotropis brachypetala
Clathrotropis macrocarpa
Cojoba arborea
Colophospermum mopane
Copaifera langsdorffii
Copaifera mildbraedii
Copaifera multijuga
Copaifera officinalis
Copaifera religiosa
Copaifera salikounda
Cordyla africana
Cylicodiscus gabunensis
Cynometra alexandri
Cynometra ananta
Cynometra elmeri
Cynometra inaequifolia
Cynometra malaccensis
Cynometra mirabilis
Cynometra ramiflora
Dalbergia bariensis
Dalbergia baronii
Dalbergia brownei
Dalbergia cambodiana
Dalbergia cearensis
Dalbergia cochinchinensis
Dalbergia congestiflora
Dalbergia cubilquitzensis
Dalbergia cultrata
Dalbergia cuscatlanica
Dalbergia decipularis
Dalbergia ecastaphyllum
Dalbergia frutescens
Dalbergia glabra
Dalbergia granadillo
Dalbergia greveana
Dalbergia latifolia
Dalbergia louvelii
Dalbergia madagascariensis
Dalbergia maritima
Dalbergia melanoxylon
Dalbergia monticola
Dalbergia nigra
Dalbergia oliveri

Dalbergia pervillei
Dalbergia retusa
Dalbergia rimosa
Dalbergia sissoides
Dalbergia sissoo
Dalbergia spruceana
Dalbergia stevensonii
Dalbergia tucurensis
Daniellia ogea
Daniellia thurifera
Desmodium oojeinense
Detarium macrocarpum
Detarium senegalense
Dialium cochinchinense
Dialium dinklagei
Dialium guianense
Dialium indum
Dialium kunstleri
Dialium patens
Dialium platysepalum
Dialium procerum
Dicorynia guianensis
Dicorynia paraensis
Didelotia africana
Didelotia brevipaniculata
Didelotia idae
Didelotia letouzeyi
Dimorphandra polyandra
Dinizia excelsa
Diploptropis martiusii
Diploptropis purpurea
Dipteryx odorata
Dipteryx oleifera
Distemonanthus benthamianus
Enterolobium contortisiliquum
Enterolobium cyclocarpum
Enterolobium schomburgkii
Enterolobium timbouva
Eperua falcata
Eperua grandiflora
Eperua jenmanii
Eperua rubiginosa
Erythrophleum ivorense
Erythrophleum suaveolens
Falcataria moluccana
Fillaeopsis discophora
Gilbertiodendron brachystegioides

Gilbertiodendron dewevrei
Gilbertiodendron mayombense
Gilbertiodendron preussii
Gleditsia triacanthos
Gossweilerodendron balsamiferum
Gossweilerodendron joveri
Guibourtia arnoldiana
Guibourtia coleosperma
Guibourtia conjugata
Guibourtia demeusei
Guibourtia ehie
Guibourtia pellegriniana
Guibourtia schliebenii
Guibourtia tessmannii
Gymnocladus dioica
Haematoxylum campechianum
Haplormosia monophylla
Hardwickia binata
Hymenaea courbaril
Hymenaea intermedia
Hymenolobium elatum
Hymenolobium excelsum
Hymenolobium flavum
Hymenolobium petraeum
Inga alba
Inga pezizifera
Intsia bijuga
Intsia palembanica
Isobertia doka
Isobertia scheffleri
Julbernardia globiflora
Julbernardia pellegriniana
Koompassia excelsa
Koompassia malaccensis
Leucaena pulverulenta
Leucaena trichodes
Lonchocarpus castilloi
Lonchocarpus leucanthus
Lysiloma latisiliquum
Machaerium scleroxylon
Machaerium villosum
Macrolobium acaciifolium
Macrolobium bifolium
Marmaroxylon racemosum
Martiodendron excelsum
Martiodendron parviflorum
Melanoxylon brauna

Microberlinia bisulcata
Microberlinia brazzavillensis
Mildbraediodendron excelsum
Millettia laurentii
Millettia leucantha
Millettia stuhlmannii
Mora excelsa
Mora gonggrijpii
Myrocarpus fastigiatus
Myrocarpus frondosus
Myroxylon balsamum
Myroxylon peruiferum
Newtonia buchananii
Olneya tesota
Ormosia coccinea
Ormosia coutinhoi
Ormosia monosperma
Ormosia nobilis
Ormosia paraensis
Oxystigma buchholzii
Oxystigma gilbertii
Oxystigma mannii
Oxystigma oxyphyllum
Parapiptadenia rigida
Parkia bicolor
Parkia pendula
Peltogyne maranhensis
Peltogyne paniculata
Peltogyne paniculata subsp. *pubescens*
Peltogyne porphyrocardia
Peltogyne venosa
Peltophorum dasyrhachis
Peltophorum dubium
Pentaclethra macroloba
Pentaclethra macrophylla
Pericopsis elata
Pericopsis mooniana
Piptadeniastrum africanum
Plathymenia reticulata
Platymiscium pinnatum
Platymiscium trinitatis
Platymiscium ulei
Platymiscium yucatanum
Prioria copaifera
Prosopis africana
Prosopis juliflora
Prosopis nigra

Pseudopiptadenia pittieri
Pseudopiptadenia psilostachya
Pseudosindora palustris
Pterocarpus acapulcensis
Pterocarpus angolensis
Pterocarpus dalbergioides
Pterocarpus erinaceus
Pterocarpus indicus
Pterocarpus macrocarpus
Pterocarpus marsupium
Pterocarpus officinalis
Pterocarpus rohrii
Pterocarpus santalinus
Pterocarpus soyauxii
Pterocarpus tinctorius
Pterogyne nitens
Robinia pseudoacacia
Schizolobium amazonicum
Schizolobium parahyba
Senna siamea
Serianthes myriadenia
Sindora bruggemanii
Sindora coriacea
Sindora javanica
Sindora leiocarpa
Sindora siamensis
Sindora supa
Sindora velutina
Sindora wallichii
Swartzia benthamiana
Swartzia cubensis
Swartzia leiocalycina
Swartzia panacoco
Sweetia fruticosa
Sympetalandra densiflora
Tachigali myrmecophila
Tachigali paniculata
Tamarindus indica
Tessmannia africana
Tetraberlinia bifoliolata
Tetraberlinia tubmaniana
Tetrapleura tetraptera
Tipuana tipu
Vatairea guianensis
Vouacapoua americana
Vouacapoua macropetala
Wallacedendron celebicum

Xylia xylocarpa
Zollernia paraensis
Zygia racemosa

Lythraceae

Duabanga grandiflora
Duabanga moluccana
Lagerstroemia angustifolia
Lagerstroemia balansae
Lagerstroemia calyculata
Lagerstroemia cochinchinensis
Lagerstroemia duppereana
Lagerstroemia floribunda
Lagerstroemia hypoleuca
Lagerstroemia ovalifolia
Lagerstroemia piriformis
Lagerstroemia speciosa
Lagerstroemia tomentosa

Magnoliaceae

Liriodendron tulipifera
Magnolia acuminata
Magnolia grandiflora
Magnolia pubescens
Magnolia sororum
Magnolia tsiampacca subsp. *mollis*
Magnolia tsiampacca
Magnolia virginiana
Magnolia vrieseana
Magnolia yoroconte

Malpigiaceae

Byrsonima crassifolia
Byrsonima spicata

Malvaceae

Apeiba glabra
Bastardiopsis densiflora
Bombax brevicuspe
Bombax ceiba
Catostemma commune
Catostemma fragrans
Cavanillesia platanifolia
Ceiba pentandra
Ceiba samauma
Ceiba speciosa
Coelostegia griffithii
Diplodiscus paniculatus
Durio griffithii
Durio lowianus
Durio oxleyanus

Durio wyatt-smithii
Durio zibethinus
Eriotheca globosa
Grewia eriocarpa
Guazuma ulmifolia
Heliocarpus americanus
Heliocarpus popayanensis
Heritiera borneensis
Heritiera densiflora
Heritiera elata
Heritiera javanica
Heritiera littoralis
Heritiera ornithocephala
Heritiera simplicifolia
Hibiscus elatus
Hibiscus lasiococcus
Hibiscus tilliaceus
Luehea divaricata
Mansonia altissima
Nesogordonia papaverifera
Ochroma pyramidale
Pachira quinata
Pentace adenophora
Pentace burmanica
Pentace curtisii
Pentace laxiflora
Pentace triptera
Pseudobombax ellipticum
Pterocymbium beccarii
Pterocymbium tinctorium
Pterospermum acerifolium
Pterospermum canescens
Pterospermum elongatum
Pterospermum javanicum
Pterygota alata
Pterygota bequaertii
Pterygota horsfieldii
Pterygota macrocarpa
Rhodognaphalon brevicuspe
Scaphium linearicarpum
Scaphium longiflorum
Scaphium longipetiolatum
Scaphium macropodum
Scaphium scaphigerum
Scleronema micranthum
Sterculia apetala
Sterculia ceramica

Sterculia conwentzii
Sterculia oblonga
Sterculia pruriens
Sterculia rhinopetala
Sterculia rugosa
Sterculia vitiensis
Tarrietia densiflora
Tarrietia sylvatica
Tarrietia utilis
Thespesia populnea
Tilia americana
Tilia cordata
Tilia glabra
Tilia platyphyllos
Tilia x europaea
Triplochiton scleroxylon

Melastomataceae

Mouriri huberi

Meliaceae

Aglaia cucullata
Aglaia spectabilis
Azadirachta excelsa
Azadirachta indica
Cabrlea cangerana
Cabrlea canjerana
Carapa grandiflora
Carapa guianensis
Carapa procera
Cedrela angustifolia
Cedrela fissilis
Cedrela odorata
Cedrela serrata
Chisocheton pentandrus
Chukrasia tabularis
Dysoxylum alliaceum
Dysoxylum fraserianum
Dysoxylum malabaricum
Ekebergia capensis
Entandrophragma angolense
Entandrophragma candollei
Entandrophragma congoense
Entandrophragma cylindricum
Entandrophragma utile
Guarea cedrata
Guarea glabra
Guarea guidonia
Guarea laurentii

Guarea thompsonii
Khaya anthotheca
Khaya grandifoliola
Khaya ivorensis
Khaya nyasica
Khaya senegalensis
Lovoa brownii
Lovoa swynnertonii
Lovoa trichilioides
Melia azedarach
Sandoricum koetjape
Sandoricum vidalii
Swietenia humilis
Swietenia macrophylla
Swietenia mahagoni
Toona calantas
Toona ciliata
Toona sureni
Turraeanthus africana
Xylocarpus granatum
Xylocarpus moluccensis

Monimiaceae

Tambourissa thouvenotii

Moraceae

Antiaris toxicaria subsp. *welwitschii*
Antiaris toxicaria var. *africana*
Antiaris toxicaria
Artocarpus altilis
Artocarpus chama
Artocarpus elasticus
Artocarpus hirsutus
Artocarpus integer
Artocarpus lanceifolius
Artocarpus ovatus
Artocarpus rigidus
Artocarpus scortechinii
Bagassa guianensis
Brosimum alicastrum
Brosimum costaricanum
Brosimum guianense
Brosimum parinarioides
Brosimum potabile
Brosimum rubescens
Brosimum utile
Clarisia racemosa
Ficus coerulescens
Ficus crassiuscula

Ficus hartwegii
Ficus insipida
Ficus mathewsii
Ficus nymphaeifolia
Ficus obliqua
Ficus pertusa
Ficus subandina
Ficus trigona
Ficus watkinsiana
Helicostylis tomentosa
Maclura pomifera
Maclura tinctoria
Maquira sclerophylla
Milicia excelsa
Milicia regia
Morus alba
Morus mesozygia
Morus nigra
Morus rubra
Poulsenia armata

Moringaceae

Moringa oleifera

Myristicaceae

Cephalosphaera usambarensis
Coelocaryon preussii
Endocomia macrocoma
Horsfieldia amygdalina
Horsfieldia brachiata
Horsfieldia bracteosa
Horsfieldia flocculosa
Horsfieldia glabra
Horsfieldia irya
Horsfieldia lauterbachii
Horsfieldia pilifera
Horsfieldia punctatifolia
Horsfieldia ralunensis
Horsfieldia spicata
Horsfieldia sucosa
Horsfieldia superba
Horsfieldia trifida
Horsfieldia wallichii
Knema conferta
Myristica buchneriana
Myristica chartacea
Myristica elliptica
Myristica gigantea
Myristica hypargyrea

Myristica iners
Myristica lowiana
Myristica maingayi
Myristica maxima
Myristica simiarum
Pycnanthus angolensis
Scyphocephalum mannii
Staudtia kamerunensis
Staudtia kamerunensis var. *gabonensis*
Virola albidiflora
Virola carinata
Virola elongata
Virola flexuosa
Virola gardneri
Virola koschnyi
Virola michelii
Virola multicostata
Virola pavonis
Virola sebifera
Virola surinamensis

Myrtaceae

Corymbia citriodora
Corymbia maculata
Eucalyptus alba
Eucalyptus astringens
Eucalyptus bridgesiana
Eucalyptus camaldulensis
Eucalyptus cloeziana
Eucalyptus coolabah
Eucalyptus deglupta
Eucalyptus delegatensis
Eucalyptus diversicolor
Eucalyptus dives
Eucalyptus eugenioides
Eucalyptus globoidea
Eucalyptus globulus
Eucalyptus globulus subsp. *maidenii*
Eucalyptus grandis
Eucalyptus longifolia
Eucalyptus marginata
Eucalyptus melliodora
Eucalyptus moluccana
Eucalyptus nitens
Eucalyptus obliqua
Eucalyptus paniculata
Eucalyptus papuana
Eucalyptus pilularis

Eucalyptus regnans
Eucalyptus resinifera
Eucalyptus robusta
Eucalyptus socialis
Eucalyptus tereticornis
Melaleuca leucadendra
Melaleuca quinquenervia
Myrcianthes pungens
Psidium guajava
Syncarpia glomulifera
Syzygium buettnerianum
Syzygium cumini
Syzygium dyerianum
Syzygium eugenioides
Syzygium kuranda
Syzygium suborbiculare
Tristaniopsis decorticata

Nothofagaceae

Nothofagus alpina
Nothofagus cunninghamii
Nothofagus dombeyi
Nothofagus menziesii
Nothofagus obliqua
Nothofagus pumilio

Ochnaceae

Lophira alata
Testulea gabonensis

Olacaceae

Coula edulis
Minquartia guianensis
Ochanostachys amentacea
Ongokea gore
Scorodocarpus borneensis
Strombosia glaucescens
Strombosia pustulata

Oleaceae

Fraxinus americana
Fraxinus excelsior
Fraxinus latifolia
Fraxinus mandshurica
Fraxinus nigra
Fraxinus ornus
Fraxinus pennsylvanica
Fraxinus profunda
Fraxinus quadrangulata
Olea capensis

	<i>Olea europaea</i>
	<i>Olea welwitschii</i>
	<i>Syringa vulgaris</i>
<i>Paulowniaceae</i>	<i>Paulownia tomentosa</i>
<i>Penaeaceae</i>	<i>Dactyloctenium aegyptium</i>
<i>Peraceae</i>	<i>Pera glabrata</i>
<i>Phyllanthaceae</i>	<i>Bischofia javanica</i>
	<i>Bridelia grandis</i>
	<i>Bridelia micrantha</i>
	<i>Hieronyma alchorneoides</i>
	<i>Hieronyma oblonga</i>
	<i>Uapaca guineensis</i>
	<i>Uapaca heudelotii</i>
<i>Picrodendraceae</i>	<i>Androstachys johnsonii</i>
	<i>Oldfieldia africana</i>
<i>Platanaceae</i>	<i>Platanus acerifolia</i>
	<i>Platanus occidentalis</i>
	<i>Platanus orientalis</i>
	<i>Platanus x hispanica</i>
<i>Podocarpaceae</i>	<i>Retrophyllum vitiense</i>
<i>Polygalaceae</i>	<i>Xanthophyllum excelsum</i>
	<i>Xanthophyllum papuanum</i>
<i>Polygonaceae</i>	<i>Triplaris weigeltiana</i>
<i>Primulaceae</i>	<i>Rapanea melanophloeos</i>
<i>Proteaceae</i>	<i>Cardwellia sublimis</i>
	<i>Grevillea robusta</i>
	<i>Grevillea striata</i>
	<i>Roupala cordifolia</i>
	<i>Roupala montana</i>
	<i>Roupala montana</i> var. <i>paraensis</i>
<i>Putranjivaceae</i>	<i>Drypetes gossweileri</i>
<i>Rhamnaceae</i>	<i>Alphitonia philippinensis</i>
	<i>Alphitonia zizyphoides</i>
	<i>Berchemia zeyheri</i>

Frangula alnus
Frangula purshiana
Krugiodendron ferreum
Maesopsis eminii
Rhamnus cathartica

Rhizophoraceae

Anopyxis klaineana
Carallia brachiata
Cassipourea gummiflua
Cassipourea malosana
Ceriops tagal
Rhizophora mangle

Rosaceae

Crataegus azarolus
Crataegus coccinea
Crataegus laevigata
Crataegus monogyna
Crataegus pinnatifida
Malus domestica
Malus pumila
Malus sylvestris
Prunus africana
Prunus avium
Prunus serotina
Prunus turneriana
Pyrus communis
Sorbus aria
Sorbus aucuparia
Sorbus intermedia
Sorbus torminalis

Rubiaceae

Balmea stormiae
Breonadia salicina
Breonia madagascariensis
Calycophyllum candidissimum
Calycophyllum multiflorum
Calycophyllum spruceanum
Exostema caribaeum
Fleroya ledermannii
Fleroya stipulosa
Genipa americana
Haldina cordifolia
Mitragyna parvifolia
Nauclea diderrichii
Nauclea orientalis
Neolamarckia cadamba
Neonauclea calycina

Pertusadina eurhyncha
Simira salvadorensis

Rutaceae

Balfourodendron riedelianum
Chloroxylon swietenia
Euxylophora paraensis
Fagaropsis angolensis
Flindersia australis
Flindersia brayleyana
Flindersia iffllaiana
Flindersia pimenteliana
Flindersia schottiana
Phellodendron amurense
Ptaeroxylon obliquum
Zanthoxylum caribaeum
Zanthoxylum flavum
Zanthoxylum gilletii
Zanthoxylum heitzii
Zanthoxylum rhetsa
Zanthoxylum riedelianum

Salicaceae

Casearia battiscombei
Casearia dallachyi
Casearia gossypiosperma
Casearia praecox
Homalium bhamoense
Homalium foetidum
Homalium le-testui
Homalium longifolium
Populus alba
Populus balsamifera
Populus canescens
Populus ciliata
Populus deltoides
Populus grandidentata
Populus heterophylla
Populus nigra
Populus tremula
Populus tremuloides
Populus trichocarpa
Salix alba
Salix babylonica
Salix caprea
Salix cinerea
Salix eleagnos
Salix humboldtiana

Salix nigra
Salix purpurea
Salix triandra
Salix viminalis
Salix x fragilis

Santalaceae

Santalum album

Sapindaceae

Acer campestre
Acer macrophyllum
Acer negundo
Acer palmatum
Acer pensylvanicum
Acer pictum
Acer platanus
Acer pseudoplatanus
Acer rubrum
Acer saccharinum
Acer saccharum
Acer saccharum subsp. *nigrum*
Aesculus flava
Aesculus glabra
Aesculus hippocastanum
Aesculus turbinata
Allophylus cobbe
Dimocarpus longan
Harpullia arborea
Hypelate trifoliata
Nephelium lappaceum

Sapotaceae

Autranella congolensis
Baillonella toxisperma
Brevia sericea
Chrysophyllum africanum
Chrysophyllum albidum
Chrysophyllum beguei
Chrysophyllum boivinianum
Chrysophyllum giganteum
Chrysophyllum gonocarpum
Chrysophyllum lacourtianum
Chrysophyllum perpulchrum
Chrysophyllum pomiferum
Chrysophyllum sanguinolentum
Chrysophyllum subnudum
Ecclinusa guianensis
Ecclinusa lanceolata
Letestua durissima

Madhuca aspera
Madhuca bejaudii
Madhuca betis
Madhuca lanceolata
Madhuca longifolia var. *latifolia*
Madhuca longifolia
Madhuca malaccensis
Madhuca motleyana
Madhuca neriifolia
Madhuca pasquieri
Madhuca philippinensis
Madhuca pierrei
Madhuca sericera
Madhuca utilis
Manilkara bidentata
Manilkara celebica
Manilkara fasciculata
Manilkara hexandra
Manilkara huberi
Manilkara kanosiensis
Manilkara kauki
Manilkara zapota
Micropholis gardneriana
Micropholis guyanensis
Micropholis melinoniana
Micropholis venulosa
Mimusops elengi
Palaquium ellipticum
Palaquium fidjiense
Palaquium gutta
Palaquium hexandrum
Palaquium hispidum
Palaquium hornei
Palaquium impressionervium
Palaquium maingayi
Palaquium obovatum
Palaquium philippense
Palaquium regina-montium
Palaquium rostratum
Palaquium semaram
Palaquium sumatranum
Palaquium walsurifolium
Payena acuminata
Payena leerii
Payena lucida
Payena maingayi
Payena obscura

	<i>Planchonella euphlebia</i>
	<i>Pouteria alnifolia</i>
	<i>Pouteria altissima</i>
	<i>Pouteria izabalensis</i>
	<i>Pouteria pierrei</i>
	<i>Pradosia schomburgkiana</i>
	<i>Sideroxylon obtusifolium</i>
	<i>Tieghemella africana</i>
	<i>Tieghemella heckelii</i>
<i>Simaroubaceae</i>	<i>Ailanthus altissima</i>
	<i>Ailanthus triphysa</i>
	<i>Simarouba amara</i>
<i>Staphyleaceae</i>	<i>Turpinia ovalifolia</i>
<i>Stemonuraceae</i>	<i>Cantleya corniculata</i>
<i>Symplocaceae</i>	<i>Symplocos martinicensis</i>
<i>Tapisciaceae</i>	<i>Hurtea cubensis</i>
<i>Tetramelaceae</i>	<i>Octomeles sumatrana</i>
	<i>Tetrameles nudiflora</i>
<i>Tetrameristaceae</i>	<i>Tetramerista glabra</i>
<i>Theaceae</i>	<i>Schima crenata</i>
	<i>Schima noronhae</i>
	<i>Schima wallichii</i>
<i>Thymelaeaceae</i>	<i>Aquilaria malaccensis</i>
	<i>Gonystylus bancanus</i>
	<i>Gonystylus forbesii</i>
	<i>Gonystylus macrophyllus</i>
<i>Trochodendraceae</i>	<i>Trochodendron aralioides</i>
<i>Ulmaceae</i>	<i>Holoptelea grandis</i>
	<i>Phyllostylon rhamnoides</i>
	<i>Ulmus alata</i>
	<i>Ulmus americana</i>
	<i>Ulmus campestris</i>
	<i>Ulmus crassifolia</i>
	<i>Ulmus glabra</i>
	<i>Ulmus hollandica</i>
	<i>Ulmus laevis</i>

Ulmus minor
Ulmus pumila
Ulmus rubra
Ulmus thomasii
Zelkova serrata

Urticaceae

Cecropia peltata
Cecropia sciadophylla
Musanga cecropioides

Vochysiaceae

Erisma calcaratum
Erisma lanceolatum
Erisma nitidum
Erisma uncinatum
Qualea albiflora
Qualea coerulea
Qualea dinizii
Qualea paraensis
Qualea parviflora
Qualea rosea
Vochysia citrifolia
Vochysia densiflora
Vochysia divergens
Vochysia diversa
Vochysia duquei
Vochysia ferruginea
Vochysia guatemalensis
Vochysia guianensis
Vochysia lanceolata
Vochysia leguiana
Vochysia lehmannii
Vochysia maxima
Vochysia obidensis
Vochysia obscura
Vochysia schomburgkii
Vochysia tetraphylla
Vochysia tomentosa

Winteraceae

Drimys winteri

Zygophyllaceae

Bulnesia arborea
Bulnesia carrapo
Bulnesia sarmientoi
Guaiacum coulteri
Guaiacum officinale
Guaiacum sanctum

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Appendix I: List of gymnosperms traded for timber

The following is a list of gymnosperm tree taxa that were featured in two or more of the source lists described in Section 2 above. Gymnosperms were separated from the rest of the Working List tree taxa using *The Gymnosperm Database* and *The Plant List* for taxonomic reference.

Family:	Scientific name:	Number of sources:
<i>Araucariaceae</i>	<i>Agathis alba</i>	2
	<i>Agathis australis</i>	2
	<i>Agathis borneensis</i>	2
	<i>Agathis dammara</i>	2
	<i>Agathis macrophylla</i>	5
	<i>Agathis moorei</i>	2
	<i>Agathis philippinensis</i>	2
	<i>Agathis robusta</i>	3
	<i>Araucaria angustifolia</i>	9
	<i>Araucaria araucana</i>	5
	<i>Araucaria bidwillii</i>	2
	<i>Araucaria columnaris</i>	4
	<i>Araucaria cunninghamii</i>	3
	<i>Araucaria hunsteinii</i>	5
<i>Cupressaceae</i>	<i>Callitris columellaris</i>	11
	<i>Callitris endlicheri</i>	2
	<i>Calocedrus decurrens</i>	5
	<i>Chamaecyparis lawsoniana</i>	4
	<i>Chamaecyparis thyoides</i>	4
	<i>Cryptomeria japonica</i>	3
	<i>Cunninghamia lanceolata</i>	2
	<i>Cupressus lusitanica</i>	5
	<i>Cupressus macnabiana</i>	2
	<i>Cupressus macrocarpa</i>	3
	<i>Cupressus nootkatensis</i>	4
	<i>Cupressus sempervirens</i>	4
	<i>Cupressus torulosa</i>	2
	<i>Fitzroya cupressoides</i>	5
	<i>Juniperus deppeana</i>	3
	<i>Juniperus occidentalis</i>	2
	<i>Juniperus oxycedrus</i>	2
	<i>Juniperus procera</i>	6
	<i>Juniperus virginiana</i>	7
	<i>Pilgerodendron uviferum</i>	2

	<i>Platycladus orientalis</i>	2
	<i>Sequoia sempervirens</i>	5
	<i>Sequoiadendron giganteum</i>	2
	<i>Taxodium distichum</i>	5
	<i>Tetraclinis articulata</i>	3
	<i>Thuja occidentalis</i>	4
	<i>Thuja plicata</i>	8
	<i>Widdringtonia whytei</i>	4
Pinaceae		
	<i>Abies alba</i>	7
	<i>Abies amabilis</i>	4
	<i>Abies balsamea</i>	4
	<i>Abies bracteata</i>	2
	<i>Abies concolor</i>	4
	<i>Abies grandis</i>	5
	<i>Abies guatemalensis</i>	3
	<i>Abies lasiocarpa</i>	6
	<i>Abies magnifica</i>	4
	<i>Abies procera</i>	4
	<i>Abies sibirica</i>	2
	<i>Abies spectabilis</i>	2
	<i>Cedrus atlantica</i>	2
	<i>Cedrus deodara</i>	2
	<i>Cedrus libani</i>	5
	<i>Larix decidua</i>	9
	<i>Larix gmelinii</i>	3
	<i>Larix kaempferi</i>	5
	<i>Larix laricina</i>	8
	<i>Larix occidentalis</i>	4
	<i>Larix sibirica</i>	3
	<i>Picea abies</i>	8
	<i>Picea engelmannii</i>	6
	<i>Picea glauca</i>	5
	<i>Picea jezoensis</i>	3
	<i>Picea mariana</i>	6
	<i>Picea omorika</i>	2
	<i>Picea rubens</i>	5
	<i>Picea sitchensis</i>	7
	<i>Pinus ayacahuite</i>	2
	<i>Pinus banksiana</i>	5
	<i>Pinus caribaea</i>	7
	<i>Pinus clausa</i>	4
	<i>Pinus contorta</i>	6
	<i>Pinus devoniana</i>	2
	<i>Pinus echinata</i>	5
	<i>Pinus edulis</i>	3
	<i>Pinus elliottii</i>	8

<i>Pinus englemannii</i>	2
<i>Pinus flexilis</i>	3
<i>Pinus glabra</i>	4
<i>Pinus heldreichii</i>	2
<i>Pinus jeffreyi</i>	3
<i>Pinus kesiya</i>	5
<i>Pinus kesiya</i> var. <i>langbianensis</i>	3
<i>Pinus koraiensis</i>	4
<i>Pinus lambertiana</i>	3
<i>Pinus merkusii</i>	4
<i>Pinus montezumae</i>	3
<i>Pinus monticola</i>	3
<i>Pinus mugo</i>	2
<i>Pinus nigra</i>	2
<i>Pinus oocarpa</i>	3
<i>Pinus palustris</i>	6
<i>Pinus patula</i>	2
<i>Pinus pinaster</i>	3
<i>Pinus ponderosa</i>	4
<i>Pinus pringlei</i>	2
<i>Pinus pseudostrobus</i>	2
<i>Pinus pungens</i>	2
<i>Pinus radiata</i>	5
<i>Pinus resinosa</i>	5
<i>Pinus rigida</i>	3
<i>Pinus serotina</i>	3
<i>Pinus strobus</i>	5
<i>Pinus sylvestris</i>	5
<i>Pinus taeda</i>	4
<i>Pinus taiwanensis</i>	2
<i>Pinus virginiana</i>	4
<i>Pinus wallichiana</i>	2
<i>Pseudotsuga menziesii</i>	12
<i>Tsuga canadensis</i>	3
<i>Tsuga heterophylla</i>	9
<i>Tsuga mertensiana</i>	2
Podocarpaceae	
<i>Afrocarpus falcatus</i>	2
<i>Afrocarpus gracilior</i>	2
<i>Dacrycarpus dacrydiodes</i>	2
<i>Dacrycarpus imbricatus</i>	4
<i>Dacrydium beccarii</i>	2
<i>Dacrydium cupressinum</i>	4
<i>Dacrydium elatum</i>	2
<i>Dacrydium nidulum</i>	3
<i>Lagarostrobos franklinii</i>	2
<i>Nageia wallichiana</i>	2

	<i>Phyllocladus aspleniifolius</i>	3
	<i>Podocarpus guatemalensis</i>	2
	<i>Podocarpus neriifolius</i>	4
	<i>Podocarpus rumphii</i>	2
	<i>Prumnopitys ferruginea</i>	2
Taxaceae		
	<i>Taxus baccata</i>	6
	<i>Taxus brevifolia</i>	4
	<i>Taxus cuspidata</i>	2
	<i>Taxus fuana</i>	2
	<i>Taxus sumatrana</i>	2
	<i>Taxus wallichiana</i>	2
	<i>Taxus wallichiana</i> var. <i>chinensis</i>	2

Appendix II: Breakdown of taxa by source list

Appendix II is provided to explain the origins of the Working List. For the full ranked working list of (non-gymnosperm) timber taxa, please refer to the attached Microsoft Excel spreadsheet. Each of the seventeen resources, or source lists, (described in Table 1 of this document) has been assigned a letter A-Q. Taxa are listed by scientific name along the spreadsheet's vertical axis, with the resource letters (A-Q) as the column headers. Each 'y' symbol alongside a scientific name indicates that this name was found in the resource at the top of the column in question.

Key to source lists:

- A - Commercial timbers: descriptions, illustrations, identification and information retrieval (Delta-Intkey)
- B - Nomenclature générale des bois tropicaux (ATIBT)
- C - Wood Species Database (TRADA)
- D - Woodworkers Source Wood Library
- E - Annual review and assessment of the world timber situation - Appendix 3: Major tropical species traded in 2010 and 2011 (ITTO)
- F - Good Wood Guide (Greenpeace)
- G - Good Wood Guide Checklist (Friends of the Earth; Fauna and Flora International)
- H - FSC Species Terminology (Forest Stewardship Council)
- I - Wood Properties Techsheets (US Department of Agriculture)
- J - The Wood Database (Meier, E)
- K - Guide to lesser-known tropical timber species (World Wildlife Fund)
- L - Timber species imported into the UK, 2009 (Timber Trade Federation, UK)
- M - Report: Precious woods: Exploitation of the finest timber (TRAFFIC)
- N - Report: An assessment of tree species which warrant listing in CITES (Hewitt, J)
- O - CITES Appendices I, II, III
- P - The Wood Explorer, Inc.
- Q - NEPCon LegalSource™ Due Diligence System