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PRELIMINARY CHECK LIST OF
THE PRINCIPAL COMMERCIAL
TIMBERS OF THE PHIL-
IPPINE ISLANDS

BY

H. N. WHITFORD, Ph. D.

FORESTER, CHIEF OF THE DIVISION OF FOREST INVESTIGATION



DEPARTMENT OF THE INTERIOR
BUREAU OF FORESTRY

BULLETIN No. 7

MAJOR GEORGE P. AHERN
DIRECTOR OF FORESTRY

MANILA
BUREAU OF PRINTING
1907

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
BUREAU OF FORESTRY, OFFICE OF THE DIRECTOR,

Manila, October 22, 1907.

SIR: I have the honor to submit herewith a manuscript entitled "A Preliminary Check List of the Principal Commercial Timbers of the Philippine Islands," and respectfully recommend its publication as Bulletin No. 7 of this Bureau.

Very respectfully,

H. D. EVERETT,
Acting Director of Forestry.

The SECRETARY OF THE INTERIOR,
Manila, P. I.



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PREFACE.

Since the publication of Merrill's Dictionary of the Native Plant Names of the Philippine Islands (Bulletin No. 8, Bureau of Government Laboratories, 1903), the knowledge concerning the identity and distribution of the principal Philippine timbers has been increased considerably. It is thought advisable to bring this together in the form of a preliminary check list, in order that there may be a more substantial basis for the gathering of data concerning the distribution, vulgar nomenclature, silvics, and uses of the various timber trees of the Islands.

The arrangement of the material is based upon common names of the wood and the botanical identification of the species that produce it. In this, as in other countries, the woods of closely allied species, or those of a number of widely different species that produce wood of closely allied structure, are grouped under a common commercial name.

Under the heading of "Distribution" there is collected the knowledge of the botanical distribution, based upon herbarium material deposited in the herbarium of the Bureau of Science. Where common names are found on the labels, they are inserted. The unit of distribution, in most instances, is the province. In some cases the province is considered too large, and then the subprovince is used, or if a province comprises more than one island, the latter is taken as the unit. It is true that in many instances confining the distribution to botanical material actually collected and deposited does not show fully all that is known of the species, for easily recognized species, like Amuguis, Cupang, and others, are known to be much more widely distributed than indicated by the collections, both from reports of foresters and collections made previous to American occupation but not now on deposit in the Philippine Islands. Yet, on the other hand, many species not easily recognized in the field are confused and reported under names that clearly do not belong to them. On the whole, therefore, it is thought advisable to base the range entirely on herbarium material. By consulting this list, forest officers can see at a glance whether or not there has been collected in the different units of the districts under their supervision the species in question. They can direct their attention to the collection of such species as are lacking, and thus place our knowledge of range on a firm foundation.

The list of common names given includes those on the herbarium sheets of the Bureau of Science, those reported by forest officers, and the names which have been used in such previous publications as are available. Often these names differ only in spelling, in other cases some appear which are probably nowhere actually applied to the species

in question, but which have found their way into the records through error, while in still other cases the same common names are applied to many different trees. In order to clear up this confusion and fix upon correct and as nearly as possible universally accepted common names the entire list has been retained. At the head of paragraphs the most widely accepted common name has been used, although future investigation may show that some of these must be changed. The names given in the list of synonyms must therefore be accepted with caution.

The list of species is practically the same list as is used by Dr. F. W. Foxworthy, of the Bureau of Science, in his recent paper on Philippine woods. That all the commercial woods are not herein included is admitted.

The arrangement is by families, according to the Engler and Prantl system, and the scientific nomenclature is that found on the herbarium sheets in the herbarium of the Bureau of Science.

The abbreviations used are as follows:

B.	Bicol.	N. Viz.	Nueva Vizcaya.
Cag.	Cagayan.	Pal.	Palawan.
Eng.	English.	Pamp.	Pampanga.
Ig.	Igorot.	Pang.	Pangasinan.
Il.	Ilocano.	Sp.	Spanish.
Il. Sur.	Ilocos Sur.	Sur.	Surigao.
Mang.	Mangyan.	T.	Tagalog.
Neg.	Negrilo.	V.	Visayan.
N. Luz.	Northern Luzon.	Z.	Zambales.

Summary of families, genera, species, and accepted common names.

Family.	Genus and species.	Common name.
Pinaceæ	<i>Pinus insularis</i> Endl	Saleng.
Casuarinaceæ	<i>Casuarina equisetifolia</i> Forst	Agoho.
Moraceæ	<i>Artocarpus cumingiana</i> Trec	Anubing.
Olacaceæ	<i>Strombosia philippinensis</i> Rolfe	Tamayuan.
Myristicaceæ	<i>Myristica philippensis</i> Lam <i>Knema heterophylla</i> Warb	Duguan. Do.
Lauraceæ	<i>Litsea perrottetii</i> F. Vill.	Baticulin.
Rosaceæ	<i>Parinarium griffithianum</i> Benth	Liusin.
Leguminosæ	<i>Pithecolobium acle</i> Vid (?) <i>Parkia roxburghii</i> G. Don <i>Intsia bijuga</i> O. Kuntz <i>acuminata</i> Merr (?) <i>Pterocarpus indicus</i> Willd <i>echinatus</i> Pers <i>blancoi</i> Merr <i>klemmei</i> Merr <i>Sindora supa</i> Merr <i>Pahudia rhomboidea</i> Prain	Acle. Banuyo. Cupang. Ipil. Do. Malacadios. Narra. Do. Do. Do. Supa. Tindalo.
Meliaceæ	<i>Toona</i> (<i>Cedrela</i>) spp <i>Aglala clarkii</i> Merr <i>Sandoricum vidalii</i> Merr <i>indicum</i> Cav	Calantas. Tucan-calao. Malasantol. Santol.

Summary of families, genera, species, and accepted common names—Continued.

Family.	Genus and species.	Common name.
Anacardiaceæ	<i>Koordersiodendron pinnatum</i> (Blco.) Merr. <i>Buchanania florida</i> var. <i>arborescens</i> Engl. <i>Dracontomelum mangiferum</i> Blume	Amuguis. Balinhasay. Dao.
Sapindaceæ	<i>Euphoria cinerea</i> Radlk. <i>Pometia pinnata</i> Forst.	Alupag. Malugay.
Rhamnaceæ	<i>Zizyphus zonulatus</i> Blco	Balacat.
Malvaceæ	<i>Bombycidendron campylosiphon</i> (Tez.) Warb (<i>Hibiscus grewiaefolius</i> (Hassk., Miq.)	Lanotan. Do.
Sterculiaceæ	<i>Tarrietia sylvatica</i> Merr. <i>Heritiera littoralis</i> Dry. <i>Pterocymbium tinctorium</i> (Blco.) Merr.	Dunfon. Dunfon-late. Teluto.
Guttifereæ	<i>Calophyllum inophyllum</i> L. <i>wallichianum</i> Pl. et Tr. <i>cumingii</i> Pl. et Tr.	Bitag. Bitanol. Do.
Dipterocarpaceæ	<i>Anisoptera vidaliana</i> Brandis. <i>Dipterocarpus grandiflorus</i> Blco. <i>lasiodopus</i> Perk. <i>verniciifluus</i> Blco. <i>Hopea acuminata</i> Merr. <i>plagata</i> Vid. <i>Shorea contorta</i> Vid. <i>malaanonan</i> Blume. <i>guiso</i> (Blanco) Blume. <i>polysperma</i> (Blanco) Merr. <i>squamata</i> Benth. & Hook. f. sp. (?)	Mayapis. Apitong. Hagachac. Panao. Mangachapuy. Yaca. White Lauan. Do. Guijo. Tanguile or Balacacan. Almon. Red Lauan. Mangasinoro.
Flacourtiaceæ	<i>Homalium barandæ</i> Vid. <i>bracteatum</i> Bth. <i>luzoniense</i> F. Vill. <i>panayanum</i> F. Vill. <i>villarlanum</i> Vid. <i>Flacourtia inermis</i> Roxb.	Aranga. Do. Do. Do. Do. Calamansanay.
Lythraceæ	<i>Lagerstroemia speciosa</i> (Linn.) Pers. <i>batintan</i> Vid.	Banaba. Batintan.
Combretaceæ	<i>Terminalia edulis</i> Blanco. <i>pellucida</i> Presl. <i>nitens</i> Presl. <i>catappa</i> L. <i>ovacarpa</i> Merr. <i>calamansanai</i> Rolfe. sp.	Calumpit. Dalinsl. Sacat. Talisay. Talisay del Monte. Calamansanay. Toog.
Myrtaceæ	<i>Eugenia</i> spp. <i>Xanthostemon verdugonianus</i> Naves	Macaasin. Mancono.
Araliaceæ	<i>Polyscias nodosa</i> Seem	Malapapaya.
Sapotaceæ	<i>Mimusops elengi</i> Linn. <i>Illipe betis</i> (Blco.) Merr. <i>Palaquium luzoniense</i> Vid. <i>barnesii</i> Merr. <i>lanceolatum</i> Blanco. <i>latifolium</i> Blanco. <i>tenuipetiolatum</i> Merr. <i>oleiferum</i> Blanco.	Bansalaguin. Betis. Malac-malac or Nato. Do. Do. Do. Do. Do.
Ebenaceæ	<i>Diospyros pilosanthera</i> Blanco. <i>discolor</i> Willd. <i>Maba buxifolia</i> Pers.	Bolongeta. Camagon. Ebony.
Apocynaceæ	<i>Alstonia macrophylla</i> Wall. <i>scholaris</i> R. Br. <i>Wrightia laniti</i> (Blanco) Merr.	Batino. Dita. Lanete.
Verbenaceæ	<i>Vitex littoralis</i> Decne. <i>pubescens</i> Vahl. <i>aherniana</i> Merr. <i>Tectona grandis</i> L. f.	Molave. Do. Sasalit. Teak.
Rubiaceæ	<i>Nauclea</i> sp. <i>Sarcocephalus cordatus</i> Miq.	Calamansanay. Bancal.



A PRELIMINARY CHECK LIST OF THE PRINCIPAL COMMERCIAL TIMBERS OF THE PHILIPPINE ISLANDS.

Family PINACEÆ.

Pinus insularis Endl.

Saleng.

DISTRIBUTION OF *Pinus insularis*.—*Benguet; Ilocos Sur; Zambales.*

COMMON NAME OF SALENG.—*Benguet Pine.*

REMARKS.—This pine occurs commonly in northern Luzon, but is not sold in the Manila market.

Family CASUARINACEÆ.

Casuarina equisetifolia Forst.

Agoho.

DISTRIBUTION OF *Casuarina equisetifolia*.—*Benguet; Cagayan (Ago); Ilocos Norte (Aroo); Ilocos Sur (Aroo); Infanta subprovince (AGOHO); Leyte; Mindoro (AGOHO); Nueva Ecija; Palawan (AGOHO); Pampanga; Principe subprovince (AGOHO); Romblon; Sibuyan Id.; Surigao (Maribohoc); Tarlac (Ago); Tayabas; Zambales (Ago).*

COMMON NAMES OF AGOHO.—*AGOHO (T., Il. Sur, V.); Ago (T., Il.); Ago (Pamp., T.); Aguho (T.); Aguso (Z.); Antong (N. Viz.); Aro (Il.) Aroo; Ayo (V.); Caro (Il.); Karamutan (Moro); Malabahoc (V.); Maribohoc.*

REMARKS.—*Casuarina equisetifolia* is usually found only on the beach and on sandy flood plains of the larger rivers. Other species of *Casuarina* are found in the mountains. The wood is, at present, little used.

Family MORACEÆ.

Artocarpus cumingiana Trec.

Anubing.

DISTRIBUTION OF *Artocarpus cumingiana*.—*Basilan Id.; Bataan; Camarines (ANUBING); Davao; Laguna; Masbate (Cubi); Mindoro (ANUBING, Cubi); Rizal (ANUBING, Anabong); Surigao (Cubi); Tarlac (ANUBING); Tayabas (ANUBING); Zambales.*

COMMON NAMES OF ANUBING.—*Anabiong; Anabong; Anobing (T.); Anobion (Pamp.); Anobling (V.); Anubian (V.); Anubiang (T.); Bayuco (V.); Bayuco ñga cacanon (V.); Bayuco ñga langcaon (V.); Cubi (B., V., N. Luz.); Nerec (N. Luz.); Obien; Panefe; Panganamaen (Il.); Ubien (Il.).*

REMARKS.—It is likely that other closely related species of *Artocarpus* will also prove to produce some of the wood known as ANUBING or Cubi. Two other woods of this family, *Artocarpus integrifolia* L. f. (Nanca, Lanca, Jack Fruit) and *Artocarpus incisa* Linn. f. (Antipolo), are used to a limited extent.

Family OLACACEÆ.

Strombosia philippinensis Rolfe.

Tamayuan.

DISTRIBUTION OF *Strombosia philippinensis*.—*Bataan* (Camayuan, TAMAYUAN); *Cagayan* (Tamauyan); *Catanduanes Ids.*; *Leyte*; *Masbate* (TAMAYUAN); *Mindanao*; *Mindoro* (Camayuan); *Misamis*; *Rizal*; *Tayabas* (Tamaoyan).

COMMON NAMES OF TAMAYUAN.—Camanyan (T.); Camaunyan (T.); Camayuan (T.); Camayon (T.); Camayuan (Bataan); Matamata (V.); Tamabayan (T.); Tamahoyan (B.); Tamaoyan; Tamauian (T.); Tamayuan (T.); TAMAYUAN (T.); Tambalaguisay (T.).

REMARKS.—*Strombosia philippinensis* is a small tree occupying a prominent place in the second story growth. It is not used much at present.

Family MYRISTICACEÆ.

Myristica philippensis Lam.

Duguan.

Knema heterophylla Warb.

DISTRIBUTION.—*Myristica philippensis*: *Basilan Id.* (Lagu); *Bataan* (Matumbao babaye, Tambalao babaye, DUGUAN, Dugon, Tambalao, Tambao); *Laguna*; *Leyte*; *Mindoro*; *Rizal* (Dugan, Duguan, Anis cahoy); *Principe subprovince* (Saguing ñg cahoy); *Tayabas*; *Zambales* (DUGUAN, Mabolong gubat); *Zamboanga*.

Knema heterophylla: *Bataan* (Dalinas, DUGUAN, Matumbao lalaque, Tambalao, Tambalao lalaque); *Benguet*; *Infanta subprovince*; *Masbate* (DUGUAN); *Mindoro*; *Rizal*; *Surigao*; *Ticao Id.*; *Zambales* (DUGUAN).

COMMON NAMES OF DUGUAN.—Anis cahoi (T.); Anis cahoy (T.); Anis moscada (T.); Balintua (Zamboanga); Dugan (T.); Duguan; Dugon; Lagu; Mabolong gubat; Matumbao babaye; Saguin ñg cahoy; Talangtalang (T.); Tambalao (Z.); Tambalao babaye; Tambao.

REMARKS.—It is not at all unlikely that other species of the *Myristicaceæ* will prove to yield some of the wood known as DUGUAN. At present the wood is little used.

Family LAURACEÆ.

Litsea perrottetii F. Vill.

Baticulin.

DISTRIBUTION OF *Litsea perrottetii*.—*Basilan*; *Bataan* (Magulic); *Camarines* (Salanungay, Calibayan); *Mindoro* (Bacan); *Rizal* (Anonang, Hang-ilang na lalaque); *Tayabas* (Bacan, Marang); *Zamboanga* (Agupit).

COMMON NAMES OF BATICULIN.—Aban (Il.); Agupit; Anago (Il.); Anonang; Ansohan (V.); Bacan; BATICULIN (T.); Baticuling (T.); Calaictic (Mang.); Calibayan; Diraan (T.); Hang-ilang na lalague; Hindang (V.); Indang (V.); Maguilac; Marang (T.); Salanumgay.

REMARKS.—It is probable that other species of *Litsea* furnish some of the wood known as BATICULIN.

Family ROSACEÆ.

Parinarium griffithianum Benth.

LIUSIN.

DISTRIBUTION OF *Parinarium griffithianum*.—Bataan (LIUSIN); Guimaras (Sampinit); Misamis; Rizal (Tadcam manoc, Tadiang manoc, Cubel); Tayabas (Malapuyao, Duñgonduñgonan); Zambales (LIUSIN).

COMMON NAMES OF LIUSIN.—Cubel; Culitingan (Pamp.); Dungondungan; LIUSIN (Bataan); Malapuyao; Sampinit; Tadcammanoc; Tadiang manoc; Taggas (Guimaras).

REMARKS.—*Parinarium griffithianum* has recently come into use and is considered valuable for piles in salt water.

Family LEGUMINOSÆ.

GENERAL REMARKS.—Next to the *Dipterocarpaceæ*, this is the most important timber family in the Philippines. In addition to those mentioned below, the wood of *Albizzia procera* Benth. (Alalañgad, Acleng pangrang) is sometimes found on the market.

Pithecolobium acle Vidal.

ACLE.

DISTRIBUTION OF *Pithecolobium acle*.—Bataan (ACLE); Camarines; Masbate (ACLE); Rizal (ACLE); Tayabas (ACLE); Zambales (Quitaquita, ACLE).

COMMON NAMES OF ACLE.—ACLE (T.); Anaguep (Il., T.); Langip (V.); Languip (V.); Quitaquita (Il.); Tabalangi (V.).

REMARKS.—*Pithecolobium acle* is a well-known wood, widely distributed, but very scarce.

Banuyo.

COMMON NAMES OF BANUYO.—BANUYO (T.); Hamago (B.); Magatulung (Il.); Malatigue, Manglati.

REMARKS.—It is not known what species yields the wood known as BANUYO, but it seems to be a leguminous wood.

Parkia roxburghii G. Don.

CUPANG.

DISTRIBUTION OF *Parkia roxburghii*.—Bataan (CUPANG); Palawan (CUPANG); Tayabas (CUPANG); Zambales (CUPANG).

COMMON NAMES OF CUPANG.—Bagoen (Il.); Baguen (Il.); Balay-oac (Il.); Butaric (N. Luz.); Copang (Il.); CUPANG (Il., T.).

REMARKS.—*Parkia roxburghii* is a widely distributed and well-known tree.

Intsia bijuga O. Kuntze.

Ipil.

Intsia acuminata Merr.

DISTRIBUTION OF *Intsia bijuga*: *Basilan Id.* (IPIL); *Bataan* (IPIL); *Bayas Ids.*; *Cotabato*; *Guimaras Id.* (IPIL); *Leyte*; *Masbate* (IPIL); *Mindoro* (IPIL); *Misamis* (IPIL); *Negros Occidental* (IPIL); *Palawan* (IPIL); *Panay*; *Principe subprovince* (IPIL); *Tayabas* (IPIL); *Ticao Id.*; *Zambales* (IPIL).

Intsia acuminata: *Cagayan* (Balahian); *Dinagat Id.* (Bayugbug); *Mindoro*; *Principe subprovince* (Tindalo); *Tayabas*.

COMMON NAMES OF IPIL.—*Balahian* (Neg.); IPIL (T., V.); *Obien* (Pang.); *Sañgay* (Isabela, Il.); *Taal* (T.); *Ubien* (Il., Pang.).

REMARKS.—Most of the timber known as IPIL comes from *Intsia bijuga* O. Kuntze (*Afzelia bijuga* A. Gray). It is a widely distributed tree, and the wood is easily recognized.

Malacadios.

COMMON NAMES OF MALACADIOS.—*Alanigui* (Zamboanga); *Banabanalo* (T.); *Bitanhol na babaye* (B.); *Dugo-an* (B.); *Durugu* (T., V.); *Hindurugu* (T., V.); *Laho* (V.); MALACADIOS (T.); *Malacadius* (T.); *Oyac* (Ig.); *Oyisan* (T.); *Saguing ñg calao* (B.); *Tambao* (T.); *Ubian* (Tarlac).

REMARKS.—The botanical status of this wood has not yet been determined; but the structure of the wood seems to place it with the *Leguminosæ*.

Pterocarpus indicus Willd.

Narra.

Pterocarpus echinatus Pers.

Pterocarpus blancoi Merr.

Pterocarpus klemmei Merr.

DISTRIBUTION OF *Pterocarpus indicus*: *Balabac*; *Cagayan*; *Leyte*; *Masbate* (NARRA); *Mindoro* (NARRA); *Misamis* (NARRA); *Palawan* (NARRA); *Rizal* (Asana); *Surigao* (NARRA); *Tayabas* (Asana, NARRA); *Zambales* (NARRA).

Pterocarpus echinatus: *Cagayan* (TAGGA); *Ilocos Sur* (NARRA); *Mindoro* (NARRA); *Principe subprovince* (NARRA); *Tayabas* (Asana, NARRA).

Pterocarpus blancoi: *Rizal* (Asana); *Tarlac* (Apalit); *Ticao*; *Union*.

Pterocarpus klemmei: *Isabela* (NARRA).

COMMON NAMES OF NARRA.—*Agana* (T.); *Antagan* (Cag., T.); *Apalit* (Pamp.); *Asana* (T.); *Daitanag* (Pamp.); *Duñgon* (Calingan Ig.); *Magalayao* (Il.); *Naga* (B., V.); *Nalla* (Moro); NARRA (T., B., V.); *Narra pula* (Unisan, Tayabas); *Naya* (Z.); *Odiao* (Pamp.); *Paquiling* (T.); *Piri* (Neg.); *Sañque* (Il., V.); *Sanque* (V.); *Tagga* (N. Luz.); *Taigas* (Cag.); *Taygat* (Cag.); *Urian* (Pamp.).

REMARKS.—The first two species, *Pterocarpus indicus* and *P. echinatus*, yield most of the wood known as NARRA. So far as the evidence goes, it seems to indicate that both these species furnish both red and yellow NARRA.

Sindora supa Merr.**Supa.**

DISTRIBUTION OF *Sindora supa*.—*Albay*; *Camarines* (SUPA); *Principe subprovince* (Manapo); *Tayabas* (SUPA, Yacal dilao).

COMMON NAMES OF SUPA.—Malapaho (T.); Malapajo (V.); Mahipaho (T.); Manapo (Principe); Paimo (Cag.); Pamalayan (Cag.); Panalalian (Cag.); Pancalian (Cag.); SUPA (T.); Yacal dilao (T.).

REMARKS.—*Sindora supa* seems to have a much wider distribution than the botanical collections would indicate.

Pahudia rhomboidea Prain.**Tindalo.**

DISTRIBUTION OF *Pahudia rhomboidea*.—*Bataan*; *Camarines* (Barayon); *Cebu* (Balauing); *Culion*; *Masbate* (Barayon); *Mindoro*; *Negros Oriental* (Barayong); *Rizal* (Balayong); *Sorsogon* (Barayon); *Tayabas* (TINDALO); *Ticao*; *Zambales* (TINDALO).

COMMON NAMES OF TINDALO.—Balaon (B., V.); Balauing; Balayon (B., V.); Balayong (T.); Baraya (B.); Barayong (B.); Barion (V.); Barnion (V.); Bialum (Moro); Ipel (Pang.); Magalayao (N. Luz.); Pintoc (Z.); TINDALO (T.); Tindola (T.); Tindolo (T.); Uris (Il.).

REMARKS.—*Pahudia rhomboidea* Prain (*Afzelia rhomboidea* Vid.) is a widely distributed tree, and furnishes a highly colored and valuable wood.

Family MELIACEÆ.

Toona spp.**Calantas.**

DISTRIBUTION OF *Toona* spp.—*Basilan Id.* (CALANTAS); *Cagayan* (Daniga); *Camarines Sur* (CALANTAS); *Masbate* (CALANTAS); *Mindoro* (CALANTAS); *Palawan* (CALANTAS); *Tayabas* (CALANTAS); *Zambales* (CALANTAS, Cantingin).

COMMON NAMES OF CALANTAS.—Alam (Mindoro); Balongcanit (B.); Calantad (Pang.); CALANTAS (T.); Cantingen (Il.); Cantingin; Dampira (Il.); Daniga (N. Luz.); Danigga (Cag.); Danupra (Cag.); Lagini (V.); Lainigda (V., B.); Lanigpa (V.); Lanipga (B.); Porac (Il.); Saggued (Pal.); Sandana (V.); Taratara (T.).

REMARKS.—It is likely that the wood known as CALANTAS comes from several species of the genus *Toona* (*Cedrela*). As yet the botanical material collected is so imperfect that the specific determinations can not be made.

Aglaia clarkii Merr.**Tucan-calao.**

DISTRIBUTION OF *Aglaia clarkii*.—*Albay*; *Basilan Id.*; *Burias Id.* (Consuyod); *Camarines* (TUCAN-CALAO); *Cebu* (Gupac, Saldana); *Masbate* (TUCAN-CALAO); *Tayabas* (Tucang-calao).

COMMON NAMES OF TUCAN-CALAO.—Consuyod; Gupac; Saldana; Tancacalao; Tansuyot (B.); Tucang-calao (T.).

REMARKS.—*Aglaia clarkii* is, as yet, little used. It is probable that other species of *Aglaia* produce commercial woods similar to TUCAN-CALAO.

Sandoricum vidalii Merr.**Malasantol.**

DISTRIBUTION OF *Sandoricum vidalii*.—Mindoro; Rizal (MALASANTOL); Tayabas (MALASANTOL, Bocboc); Zambales (Magsantol); Zamboanga (Magsantol).

COMMON NAMES OF MALASANTOL.—Bocboc; Cateban (Pamp.); Magsantol; MALASANTOL; Panantolen (Il.).

REMARKS.—It is not at all unlikely that other species besides *Sandoricum vidalii* will be found to produce the wood known as MALASANTOL.

Sandoricum indicum Cav.**Santol.**

DISTRIBUTION OF *Sandoricum indicum*.—Basilan (SANTOL); Bataan (SANTOL); Camarines Sur (SANTOL); Laguna; Mindoro (SANTOL); Rizal (SANTOL); Tayabas (SANTOL); Zambales; Zamboanga (SANTOL).

COMMON NAMES OF SANTOL.—SANTOL (T., V., Moro); Santol (Zamboanga).

REMARKS.—*Sandoricum indicum* is a widely distributed species valued for its fruit, but it is not much used for lumber.

Family ANACARDIACEÆ.

Koordersiodendron pinnatum (Blco.) Merr.**Amuguis.**

DISTRIBUTION OF *Koordersiodendron pinnatum*.—Bataan (AMUGUIS); Camarines (AMUGUIS); Mindoro (AMUGUIS); Palawan (AMUGUIS); Rizal (Amoguis); Tayabas (AMUGUIS); Ticao Id. (Sambulauan).

COMMON NAMES OF AMUGUIS.—Ambogues (V.); Amboguis; Amoguis (V.); Ampopot; AMUGUIS (T.); Bancahasi (Il.); Bancalari (Il.); Bilucao; Calumanog (V.); Carugcog (B.); Dangila (T.); Danguila (T.); Laco-laco (V.); Marsantog (N. Luz.); Muguis (V.); Palosanto (T.); Sambalagan; Sambalaguan (V.); Sambalauan (V.); Sanbalabuan; Twi (Neg.).

REMARKS.—*Koordersiodendron pinnatum* is a widely distributed and easily recognized tree.

Buchanania florida var. *arborescens* Engl.**Balinhasay.**

DISTRIBUTION OF *Buchanania florida arborescens*.—Balabac Id.; Basilan Id. (Lingabunu); Bataan; Bohol; Camarines (Baligohot, Ligas); Dinagat Id. (Beobayono); Guimaras Id. (Anan, Balaña); Ilocos Sur (Balingasay); Masbate (Tagangtang); Mindanao (Malabalunu); Mindoro (BALINHASAY, Balinasay, Pusopuso, Bagulibas); Negros Occidental; Palawan; Principe subprovince (Malaligas na lalaque, Calius); Rizal (Baleñasoy); Surigao (Cocatmon); Tayabas (Balibud, Baliñghood, Balayohot, Balihod, Hupong-hupong, Magulioc, Tagantag); Tarlac (Balinsay); Ticao Id. (Anagas, Tagangtang); Tinago Id. (Pototan); Zambales (Camung, BALINHASAY); Zamboanga.

COMMON NAMES OF BALINHASAY.—Anagas; Anam (V.); Anan

(Mang.); Bagulibas (Mindoro); Balanga; Balayohot (T.); Balen̄gasoy (T.); Balibud (T.); Baligohot (B.); Balinasay; Balingahood; Balinghasay (T.); Balinhasa (T.); BALINHASAY (Il.); Balinhay (Z., B.); Balinsay; Baliohod; Bancalauan (T.); Beobayano (V.); Calius; Comung; Cocatmon (V.); Dilaan (V.); Hupong-hupong (V.); Lingabunu; Ligas; Magulioç (T.); Malabalunu; Malibohod; Pototan; Pusopuso (Mindoro); Tagangtang; Tagantag.

REMARKS.—BALINHASAY is very widely distributed, but the wood is not of very good quality.

Dracontomelum mangiferum Blume.

Dao.

DISTRIBUTION OF *Dracontomelum mangiferum*.—Bataan (DAO); Mindoro (DAO); *Principe subprovince* (DAO); Rizal (DAO); Sorsogon (DAO); Tayabas (DAO).

COMMON NAMES OF DAO.—Anilas; Botoan (V.); Bubur; Camarac (N. Luz.); DAO (T.); Lamio (T.); Malaiyao (T.).

REMARKS.—*Dracontomelum mangiferum* is a widely distributed but little used tree. It is given a place in this list because tests show it to be equal in strength to many other woods now in common use. It is also abundant.

Family SAPINDACEÆ.

Euphoria cinerea Radlk.

Alupag.

DISTRIBUTION OF *Euphoria cinerea*.—Bataan (ALUPAG); Benguet; Cagayan; Camarines (Halupac); Davao; *Infanta subprovince* (Apalong); Masbate (Panuto); Mindoro (Halupac, ALUPAG, Alupac-pula, Ayupag); Pampanga (Alupay); Rizal (Aropay); Tayabas (Bait); Zambales (Alupac).

COMMON NAMES OF ALUPAG.—Alipay (T.); Alpay (T.); Alupac (T.); Alupac-pula; ALUPAG (T.); Alupag ama (Pamp.); Alupay (T., Z.); Alupe (Pamp.); Apalong (N. Luz.); Aropay; Ayupag; Bait; Bulala (B.); Dulit (Neg.); Halupag amo; Halupa; Halupac (T.); Halupag (Tayabas); Panuto.

REMARKS.—A medium-sized and widely distributed tree which yields an edible fruit.

Pometia pinnata Forst.

Malugay.

DISTRIBUTION OF *Pometia pinnata*.—Mindoro (Agupaña?, Alam, Carunyan, MALUGAY); Ticao Id. (Magtalisay).

COMMON NAMES OF MALUGAY.—Agupaña; Alam; Carunyan; Magtalisay; Oyacya.

REMARKS.—MALUGAY was previously thought to be a species of *Dracontomelum* (Bull. No. 4, Phil. Bur. For., p. 63), but more complete botanical specimens seem to indicate that it is *Pometia pinnata* and in an entirely different family.

Family RHAMNACEÆ.

Zizyphus zonulatus Blanco.**Balacat.**

DISTRIBUTION OF *Zizyphus zonulatus*.—*Bataan* (Ligaa, BALACAT); *Camarines* (Ligaa); *Mindoro*; *Palawan* (Dagaa); *Rizal* (Bigaa); *Tayabas* (Ligaa, Danlic); *Zamboanga*.

COMMON NAMES OF BALACAT.—Agguc (Cag.); Aligamon (Il.); BALACAT (Pamp.); Bigaa (Rizal); Dagaa (Pal.); Danlic (Tayabas); Ligaa (T.).

REMARKS.—BALACAT is a common, widely distributed tree.

Family MALVACEÆ.

Bombycidendron campylosiphon (Tez.) Warb.**Lanotan.**

(*Hibiscus grewiaefolius* (Hassk.) Miq.)

DISTRIBUTION OF *B. campylosiphon*.—*Rizal* (LANOTAN); *Bulacan*; *Benguet*; *Cagayan* (Pangadisin).

COMMON NAMES OF LANOTAN.—LANOTAN, Lanutan (T.); Pañgadisin (Cag.).

REMARKS.—It is said that some of the wood known as LANOTAN is furnished by a tree of the genus *Saccopetalum* of the Family *Anonaceæ*; but the LANOTAN on the Manila market at present seems to be only from the above species.

Family STERCULIACEÆ.

Tarrietia sylvatica Merr.**Duñgon.**

DISTRIBUTION OF *Tarrietia sylvatica*.—*Albay*; *Bataan* (DUNĠON); *Camarines* (DUNĠON); *Masbate* (DUNĠON); *Rizal* (DUNĠON); *Tayabas* (DUNĠON); *Zambales* (DUNĠON).

COMMON NAMES OF DUNĠON.—Bingas (Il.); Duñgon (T.); Duñgol (T.); Duñgon (T., V.); Duñgun (T., V.); Malaruñgun (T.); Palme-gapoy (Il.); Palogapig (Il.); Palonapin (Z.); Palonapoy (Z.); Paronapin (Il., N. Luz.); Paronapuy (Z.).

REMARKS.—While all the wood that comes from *Tarrietia sylvatica* is known as DUNĠON, it is not at all unlikely that some of the wood of *Heritiera littoralis* is also sold as DUNĠON.

Heritiera littoralis Dry.**Duñgon-late.**

DISTRIBUTION OF *Heritiera littoralis*.—*Bataan* (Duñgon, DUNĠON-LATE, Lungapoy); *Cagayan*; *Camarines* (DUNĠON-LATE); *Capiz*; *Culion* (Palungapoy); *Davao*; *Guimaras* (Duñgon); *Masbate* (DUNĠON-LATE); *Mindoro* (DUNĠON-LATE); *Negros Occidental* (DUNĠON-LATE); *Palawan*; *Principe subprovince* (DUNĠON-LATE); *Surigao* (Duñgon); *Tayabas* (Maladungon, DUNĠON-LATE, Duñgon lalao); *Ticao Id.* (Duñgon); *Zambales* (DUNĠON-LATE).

COMMON NAMES OF DUNĠON-LATE.—Biñgas (Il.); Doñgon (T.); DunĠon-late (T.); Dumon (N. Luz.); Duñgon (T., V.); Duñgon-duñgon (V.); Duñgon-lalao (T.); DUNĠON-LATE (T.); Duñgun (T., V.); Liosin (Z.); Lungapoy; Maladuñgun (T.); Malaruñgon (T.); Palmeġapoy (Il.); Palonapoy (Z.); Paluñġapoy (Il.); Paronapin (Il.).

REMARKS.—Some other unknown wood is placed on the market as DUNĠON-LATE. It is probable that some of the wood of *Heritiera littoralis* is also sold as DUNĠON.

Pterocymbium tinctorium (Bleo.) Merr.

Teluto.

DISTRIBUTION OF *Pterocymbium tinctorium*.—Bataan; Camarines; Mindoro; Palawan; Pampanga; Rizal; Tayabas; Zambales; Zamboanga.

COMMON NAMES OF TELUTO.—Babuy gubat (T.); Taloto (T.); Talutu (V.); TELUTO (T.).

REMARKS.—TELUTO is a common and widely distributed tree.

Family GUTTIFERÆ.

Calophyllum inophyllum L.

Bitaoġ (Palo Maria de la Playa).

Calophyllum wallichianum Pl. et Tr.

Calophyllum cumingii Pl. et Tr.

Calophyllum spp.

Bitanhol (Palo Maria del Monte).

The wood known as Palo Maria can be roughly placed in two groups as follows BITAOG or PALO MARIA DE LA PLAYA (*Calophyllum inophyllum* L.) and BITANHOL or PALO MARIA DEL MONTE (other *Calophyllum* species).

DISTRIBUTION OF *Calophyllum inophyllum*.—Balabac Id., Basilan Id. (Duncalan); Bataan (Palo Maria, BITAOG); Bohol; Burias Id. (Dancalan); Cagayan; Camarines (PALO MARIA DE LA PLAYA); Cebu (Palo Maria); Culion; Davao; Ilocos Norte; Ilocos Sur (Batarao); Masbate; Mindoro (Palo Maria); Negros Occidental (Dancalan); Palawan (Dancalon); Pangasinan (Bitaoi); Rizal; Tayabas (Dancalan); Zambales (BITAOG, Palo Maria); Zamboanga.

COMMON NAMES OF BITAOG.—Batarao; Bitaoi (Z.); Dancalan; Dancalon; Duncalan; Palo Maria; PALO MARIA DE LA PLAYA.

REMARKS.—This wood is widely distributed in the Philippines, occupying, in all instances, a prominent place in the beach type of forest.

DISTRIBUTION OF *Calophyllum wallichianum*.—Bataan (PALO MARIA, PALO MARIA DEL MONTE); Camarines (PALO MARIA DEL MONTE); Palawan (PALO MARIA); Tayabas (Dolitan); Zambales (PALO MARIA).

DISTRIBUTION OF *Calophyllum cumingii*.—Camarines (PALO MARIA DEL MONTE); Culion; Guimaras (Lingo lingo, Nato); Palawan; Tayabas (Cula cula); Ticao Id. (BITANHOL); Zambales (Pamiltaoguin, Bitoc gubat, Bitaoġ baguit).

COMMON NAMES OF BITANHOL.—Aranap; Balagnan; Batinan amo (T.); BITAOG (Il., V., Pamp., T.); Dolitan; Palo Maria; PALO MARIA DEL MONTE; Pamitoguen (N. Luz.).

REMARKS.—The two trees *Calophyllum wallichianum* and *C. cumingii* are seldom, if ever, found on the beach, but may occur in low hills back of the beach or in the mountains. It is not at all unlikely that there are other species of *Calophyllum* that will prove to produce the wood known as BITANHOL (PALO MARIA DEL MONTE).

COMMON NAMES OF BITAOG OR BITANHOL.¹—Bancalan (T.); Bansaňgal; Basaňgal (Il.); Bitog; Biroy (Il.); Bitaňgal (Moro); Bitanghol (V.); Bitaob (Pamp., V.); Bitaosy (Il.); Bitaoy (Z., Pamp., Il., V.); Bitoc (Z.); Dancolan (Cag.); Dincalan (T.); Dincalin (T.); Dingcalin; Pamiclalten (Il.); Pamitagen (Il.); Pamitaogon (V.); Pamitoguen (Il.); Pamitlain (Il.); Pamitlaten (Il.); Panitlain (Il.); Panitogan (Il.); Sarumagen (Il.); Tamauian (T.); Vitam; Vitog (Il.); Zarumayan (Il.).

Family DIPTEROCARPACEÆ.

This is the most important timber family in the Philippines, and yields timber of all grades. In many instances, several species are grouped under one name so that such names as APTONG, LAUAN, and YACAL may stand for two or more species. Such knowledge as is on record concerning the many species of this family is given below. It is known, however, that there are a number of species that are not represented by botanical specimens of any kind and a larger number without good botanical specimens.

Anisoptera vidaliana Brandis.

Mayapis.

Anisoptera spp.

DISTRIBUTION OF *Anisoptera vidaliana*: Bataan (MAYAPIS); Ilocos Sur (Duyong); Masbate (Macaasin); Polillo Id. (Manapo); Rizal (MAYAPIS, Dagang, Dagang na puti); Zambales (MAYAPIS, Palosapis, Pahapy).

Anisoptera sp.: Cagayan (Apu); Masbate (Betis or Letis).

COMMON NAMES OF MAYAPIS.—Afu (N. Luz.); Dagang na puti (Rizal); Daňgang (Rizal); Duyong; Letis (Masbate); Macaasin (Masbate); Manapo; (Polillo); Mayapes (Rizal); MAYAPIS (Bataan); Pahapy (Z.); Palosapis (Z., Bataan).

REMARKS.—It is not at all unlikely that several species of *Anisoptera* and one or more species of *Shorea* produce the wood known on the market as MAYAPIS.

¹ The names included in this list have been reported as being used with some species of *Calophyllum*, but it is not certainly known whether they apply to BITAOG or BITANHOL.

Dipterocarpus grandiflorus Blanco.**Apitong.****Dipterocarpus** spp.

DISTRIBUTION OF *Dipterocarpus grandiflorus*.—*Bataan* (Panao, APITONG); *Bulacan*; *Ilocos Sur*; *Infanta subprovince* (APITONG); *Mindoro* (APITONG); *Negros Occidental* (APITONG); *Rizal* (APITONG); *Tayabas* (APITONG); *Zambales* (Apiton, APITONG).

COMMON NAMES OF APITONG.—Anahaon (B.); Apitón (T.); APITONG (T., V.); Balao (T.); Camuyao (V., N. Luz.); Canunyao (Il.); Duco (N. Luz.); Hagachac (T.); Hapitan (V.); Hapiton (T.); Hapitong (T.); Mapitan (V.); Mapitong (T.); Napiton (T.); Napitong; Panao (T., Il.).

REMARKS.—The woods of PANAo, HAGACHAC, and APITONG are so nearly alike that they are usually placed on the market under the name of APITONG. There is no doubt that there are other species of *Dipterocarpus* that produce the wood known as APITONG.

Dipterocarpus lasiopodus Perk.**Hagachac.**

DISTRIBUTION OF *Dipterocarpus lasiopodus*.—*Principe subprovince* (HAGACHAC); *Mindoro* (HAGACHAC); *Tayabas* (HAGACHAC, Jagacjac, Banao).

COMMON NAMES OF HAGACHAC.—Banao; Jagacjac.

REMARKS.—The wood of HAGACHAC is usually placed upon the market under the name APITONG, which it closely resembles.

Dipterocarpus vernicifluus Blanco.**Panao.**

DISTRIBUTION OF *Dipterocarpus vernicifluus*.—*Bataan* (PANAo); *Bulacan* (PANAo); *Mindoro* (Apitong); *Rizal* (PANAo, Balao); *Zambales* (PANAo, Apitong).

COMMON NAMES OF PANAo.—Apitong; Balao (T.); Bulao (T.); Bulay (Batangas); Camiing (Neg.); Malapaho (T.); Malapajo; Malapao; Pamansolen (Il.); Pamantulen (Il.); Panantulen (Pang.); Pañgo; Panno; Pano (Pamp.); Panuo (T.); Poñgo (Pamp.); Sitan (N. Luz.).

REMARKS.—The wood of PANAo is usually placed upon the market under the name of APITONG, which it very closely resembles.

Hopea acuminata Merr.**Mangachapuy.**

DISTRIBUTION OF *Hopea acuminata*.—*Bataan* (Dalindiñgan, Dalingdiñgan); *Cagayan* (Naric); *Camarines* (MANGACHAPUY); *Sorsogon* (MANGACHAPUY); *Tayabas* (Yacal).

COMMON NAMES OF MANGACHAPUY.—Dalindiñgan; Dalindiñgan isac; Dalindiñgan locloc; Dalindiñgan milao; MANGACHAPUY; Naric; Yacal.

REMARKS.—*Hopea acuminata* is usually sold upon the market as MANGACHAPUY.

Hopea plagata Vid.**Yacal.****Hopea** sp.DISTRIBUTION OF *Hopea plagata*.—*Tayabas*; *Zambales*.

COMMON NAMES OF YACAL.—Banutan (Il.); Barutan (Il.); Bitic (Il.); Caliot (Pang., Il.); Callot (Il.); Liacal (Pamp.); Linap (V.); Linapa (V.); Marago (Neg.); Maratuba (Cag.); Paina (T.); Pañgi (Il.); Panigayan (Il.); Paniggayan (Il.); Papolañgan (T.); Salapugud (Il.); Salincopa? (V.); Sal-lapugud (Il.); Sapluñgan (T.); Sapolon-gan (T.); Seggay (Il.); Siggay (Il.); Taggaoy (Il.); YACAL (T.); Yacal puti (T.).

REMARKS.—The YACAL of Tayabas is *Hopea plagata*. The YACAL of Zambales may be this species. Imperfect botanical material with wood specimens from Rizal is not this species. It is probable that the YACAL of commerce is the product of more than one species; but it is impossible to say what species, besides *Hopea plagata*, is used.

Shorea contorta Vid.**White Lauan.****Shorea malaanonan** Blume.**Shorea** spp.

DISTRIBUTION OF *Shorea contorta*: *Basilan Id.* (Danlug); *Bataan* (Lauan); *Masbate* (Lauaan); *Mindoro* (Lauan); *Misamis*; *Negros Occidental* (Lauan, Lauan-dunlog); *Polillo Id.* (Tidong?, Malataong); *Rizal* (Malaanonang, Lauaan, Lauan); *Sorsogon* (Lauan); *Tayabas* (Lauaan); *Zambales* (Lauan, Lauan puti).

Shorea malaanonan: *Rizal* (Malaanonang).

Shorea sp.: *Camarines* (Hapnit, Lauan); *Masbate* (Lauan); *Negros Occidental* (Lauan-bagtican); *Principe subprovince* (Mayapis); *Sorsogon* (Guisoc, Mangasinoro); *Surigao* (Lauaan); *Tayabas* (Apnit, Danlig). (Known from leaf specimens only.)

COMMON NAMES OF WHITE LAUAN.—Acab-acab (Basilan); Almon (V.); Anteng (Il.); Apnit (Il.); Bagtican (V.); Balabac (Cag.); Baraybacan (Basilan); Bayucan (Il., Neg.); Danlig (Tayabas); Danlug; Dunlog (V.); Duyong (Il.); Guisoc; Hapnit (Camarines); Lanaan (V.); Lauaan (V., T.); Lauan-bagtican; Lauan-dunlog; Lauan puti; Lauaan; Lauayan (Pamp.); Lauan; Ligamen (Il.); Malaanonang; Malaanonang na puti (Rizal); Malasinoro; Malataong; Malatiaong (Polillo); Malcauayan (Basilan); Mangasinoro; Mayapis (Tayabas); Sandana (T.); Tidong (Polillo).

REMARKS.—It will be seen from the above that a number of species are grouped under one name. It is not at all unlikely that still other species of *Shorea* and possibly some species of the genus *Anisoptera* are on the market under the name of WHITE LAUAN. (See also ALMON.)

Shorea guiso (Blanco) Blume.**Guijo.**

DISTRIBUTION OF *Shorea guiso*.—*Bataan* (Guiso, GUIJO); *Masbate* (Guisoc); *Mindoro* (GUIJO); *Rizal* (GUIJO, Guijo-bitic); *Tayabas* (GUIJO); *Zambales* (Guiso).

COMMON NAMES OF GUIJO.—Betic (Laguna); Carucat (N. Viz.); Catapang; Cotopang (N. Viz.); Crucat (N. Viz.); Curibut (N. Luz.); Curyao (N. Viz.); GUIJO (T.); Guijo-bitic; Guishang; Guiso (T., B.); Guisoc (T., B.); Litan (Cag.); Niquet (Il.); Saray (Il., N. Luz.); Yamban (Il.); Yambang (Il.); Yate (Il.); Zilan (Il.); Zimaya (Il.); Zimoya (Il.); Zitan (Il.).

REMARKS.—*Shorea guiso* is a widely distributed tree and easily recognized, but it is not nearly so abundant as many others of the species of *Dipterocarpaceæ*. The wood of the better grades of APITONG is sometimes sold as GUIJO.

Shorea polysperma (Blanco) Merr.

Tanguile or Balacbacan.

DISTRIBUTION OF *Shorea polysperma*.—Bataan (TANGUILE, Tanguili); Cebu (Manaog); Mindoro; Negros Occidental (Balacbacan).

COMMON NAMES OF TANGUILE.—Adamuy (B.); Araca (Il.); Babañg-anon (V.); BALACBACAN (V.); Damilang (N. Luz.); Ginlagasi (V.); Lagasi (V.); Magusan (B.); Manaog; Panansogin (T.); Panansogin (T.); Tamug (Il.); Tanec (Cag.); Tangile (T.); Tangili (T.); TANGUILE (T.); Tanguili (T.).

REMARKS.—*Shorea polysperma*, although reported as widely distributed, has been collected in but four provinces. The wood is very variable in in quality. The BALACBACAN of commerce is noticeably softer than some of the TANGUILE of Bataan, yet a number of samples from Bataan are as soft as the BALACBACAN. The RED LAUAN of commerce is sometimes sold as BALACBACAN. (See RED LAUAN.)

Shorea squamata Benth. & Hook. f.

Almon.

DISTRIBUTION OF *Shorea squamata*.—Basilan Id. (Malacayan); Mindoro (Alam); Misamis (Calian); Negros Occidental (ALMON); Surigao (Magucinuyo); Tayabas (Mayapis).

COMMON NAMES OF ALMON.—Alam; ALMON (V.); Calian; Lauan; Magucinuyo (V.); Malacayan; Mayapis; White Lauan.

REMARKS.—The wood of ALMON is not noticeably different from WHITE LAUAN, under which name it was formerly sold. That coming from Negros is now sold under the name of ALMON.

Shorea sp.

Red Lauan.

DISTRIBUTION OF *Shorea* sp.—Negros Occidental (Mangachapuy or RED LAUAN).

COMMON NAME OF RED LAUAN.—Mangachapuy.

REMARKS.—This species has been collected only in Negros Occidental. It is probable that it is more widely distributed than this, however. The wood resembles BALACBACAN and is often sold as such, but it is lighter and not so strong.

Mangasinoro.

COMMON NAMES OF MANGASINORO.—Afu (Il.); Magsinolo (V.); Mangachinoro (V.); Malasinoro (V.); Sambulauan (V.).

REMARKS.—It is not known what species of *Dipterocarpaceæ* produces the wood known as MANGASINORO. The name is connected with a *Shorea* sp., but this seems not to be the commercial tree. It is probable that some as yet unknown *Shorea* or *Hopea* will be found to produce this wood.

Family FLACOURTIACEÆ.

Homallium barandæ Vid.

Aranga.

Homallium bracteatum Bth.

Homallium luzoniense F. Vill.

Homallium panayanum F. Vill.

Homallium villarianum Vid.

DISTRIBUTION OF *Homallium barandæ*: Rizal (Laing).

Homallium bracteatum: Bataan.

Homallium luzoniense: Bataan; Pampanga; Rizal (Laing) Tayabas (Arangan).

Homallium panayanum: Guimaras (Puyot).

Homallium villarianum: Camarines (ARANGA).

COMMON NAMES OF ARANGA.—Ampupuyot (V.); Arang (V.); Arang-an (T.); Arangin (Il.); Cuela; Laing (Rizal); Puyot (V.).

REMARKS.—It is not known positively how many of the above species produce the wood of commerce. It is not at all unlikely that there is very little difference in the character of the wood of the different species.

Flacourtia inermis Roxb.

Calamansanay.

DISTRIBUTION OF *Flacourtia inermis*.—Bataan; Davao; Zambales (Calamansali, CALAMANSANAY).

COMMON NAMES OF CALAMANSANAY.—Calamansali.

REMARKS.—*Flacourtia inermis* is one of the three species that is said to produce the wood known as CALAMANSANAY. (See also *Terminalia calamansanai* and *Nauclea* sp.)

Family LYTHRACEÆ.

Lagerstroemia speciosa (Linn.) Pers.

Banaba.

DISTRIBUTION OF *Lagerstroemia speciosa*.—Bataan (BANABA); Batanes Id., Camarines; Guimaras (Canilan); Ilocos Sur (BANABA); Laguna; Leyte; Mindoro (BANABA); Misamis (BANABA); Palawan (BANABA); Pampanga; Rizal (BANABA); Tayabas (BANABA); Zambales (BANABA).

COMMON NAMES OF BANABA.—Agaro; Alagao (Cag.); BANABA (B., T.); Canilan (Guimaras); Danioura (N. Luz.); Macabalo (Pang.); Manaba (V.); Mitla (Pamp.); Tabañgan (Cag.); Tabañgao, (Il.); Tagbañgao (Il.); Zoglogan (Neg.).

REMARKS.—BANABA is a very widely distributed and easily recognized species.

Lagerstroemia batitinan Vid.

Batitinan.

DISTRIBUTION OF *Lagerstroemia batitinan*.—Camarines; Davao; Sorsogon; Tayabas.

COMMON NAMES OF BATTINAN.—Baticalag (Pang.); Batitian (T., Pamp.); BATTINAN (T.); Bingas (Il.); Bugaron; Buguaron; Dumate; Larilla (Il.); Lasila (N. Luz., Il.); Lumasi; Lumati; Magatulung. Manglate; Miao (V.); Nathubo; Saguimsin (V.); Tinaan (B.).

REMARKS.—*Lagerstroemia batitinan* is apparently a widely distributed species, but, so far, has been collected but from four provinces.

Family COMBRETACEÆ.

The genus *Terminalia* of this family produces a number of woods that evidently are closely related in structure. These woods are usually grouped under one or more of a number of common names, the principal ones of which are CALUMPIT, DALINSI, SACAT, and TALISAY. It is probable, though not certain, that the principal species that produce these woods are as follows:

CALUMPIT, *Terminalia edulis* Blanco.

DALINSI, *Terminalia pellucida* Presl.

SACAT, *Terminalia nitens* Presl.

TALISAY, *Terminalia catappa* L.

Terminalia edulis Blanco.

Calumpit.

Terminalia spp. (?)

DISTRIBUTION OF *Terminalia edulis*.—Bataan (CALUMPIT); Camarines (CALUMPIT); Guimaras Id. (Tayataya); Masbate (Calumanog); Mindoro; Rizal (CALUMPIT); Tayabas (CALUMPIT); Zambales (CALUMPIT, Gayumayen).

COMMON NAMES OF CALUMPIT.—Buluang (V.); Calumpit (T.); Calumagun (B.); Calumanog (V.); CALUMPIT (T.); Calusit (Il.); Cotmoc (B.); Gayumayen; Magtalisay (V.); Maytalisay (V.); Putian (Il.); Tabao (V.); Taco (N. Luz.); Tayataya.

Terminalia pellucida Presl?

Dalinsi.

Terminalia sp.

DISTRIBUTION OF *Terminalia pellucida*.—Mindoro (Malagabi; Palawan; Pampanga (Subo-subo); Rizal (Malaputat); Tayabas (Calumpit, DALINSI); Zambales (Subosubo, Aritongtong, Hackit).

COMMON NAMES OF DALINSI.—Almendro (Sp., T.); Apuit (V.); Aritongtong; Banilac (V.); Calisai (Pamp.); Calumagon (B); Calumpit, Dalara, Dalaueng (N. Luz.); Dalensi (V.); DALINSI (T.); Dalisay (Mindanao); Hackit; Hintan; Hitam (V.); Lugo (Il.); Malagabi; Malaputat; Nato (V.); Sacat; Salaysay; Salisay; Subo-subo; Talisay (T., V., Pamp.).

Terminalia nitens Presl.
Terminalia spp.

Sacat.

DISTRIBUTION OF *Terminalia nitens*.—*Bataan* (Calumpit, SACAT); *Masbate* (Magtalisay); *Mindoro* (Malaruhat); *Palawan*; *Rizal* (SACAT); *Tayabas* (Dalinsi); *Zambales* (Subo-subo).

COMMON NAMES OF SACAT.—Bisal (Pang.); Calumpit; Dalinsi; Magtalisay (Masbate); Malaruhat; Pansaquet (T.); SACAT (T.); Saquet (Il., Pang.); Subo-subo.

Terminalia catappa L.

Talisay.

DISTRIBUTION OF *Terminalia catappa*.—*Basilan Id.* (Talisi); *Bataan* (TALISAY); *Camarines*; *Davao*; *Ilocos Sur*; *Iloilo* (TALISAY); *Misamis*; *Palawan* (TALISAY); *Pampanga*; *Principe subprovince* (TALISAY); *Tayabas* (TALISAY); *Zambales* (TALISAY).

COMMON NAME OF TALISAY.—Talisi.

REMARKS.—*Terminalia catappa* is distinctly a coast form.

Terminalia ovacarpa Merr.

Talisay del Monte.

DISTRIBUTION OF *Terminalia ovacarpa*.—*Bataan* (Sacat, TALISAY DEL MONTE); *Rizal*; *Principe subprovince* (Balinse).

COMMON NAMES OF TALISAY DEL MONTE.—Balinse; Sacat.

REMARKS.—This comparatively infrequent species has wood distinctly different from that of the other known species.

Terminalia calamansanai Rolfe.

Calamansanay.

DISTRIBUTION OF *Terminalia calamansanai*.—*Principe subprovince* (Malacalumpit, CALAMANSANAY); *Rizal* (CALAMANSANAY, Clamansacat); *Surigao* (Lumanog, CALAMANSANAY); *Zambales* (Calamansali, Subo-subo); *Zamboanga*.

COMMON NAMES OF CALAMANSANAY.—Bancalaguan (V.); Bancalauag (V.); Bancalauan (T.); Bayabo (Il.); Bisal (Pang.); Bosili (Pang.); Calamansac (Z.); Calamansali; Calamansanai (T.); CALAMANSANAY (T.); Calamansanog (T.); Calamansaun (T.); Calumagon (B.); Capumpit (T.); Clamansacat; Guisac (T.); Himbabalut (V.); Lisacuisac (T.); Lumanog (V.); Magatalay (Il.); Magatolay (N. Luz.); Magobinlod (V.); Malacalumpit (B.); Maytalisay (V.); Subo-subo (Z.).

REMARKS.—The records show that at least three different species, in as many families, are candidates for CALAMANSANAY. Probably all three will be found to produce some of the commercial wood of that name. (See *Flacourtia inermis* and *Nauclea* sp.).

Terminalia sp.

Toog.

DISTRIBUTION OF *Terminalia* sp.—*Masbate* (Toog); *Sorsogon* (Toog).

COMMON NAMES OF TOOG.—Toob; TOOG (B.).

REMARKS.—Leaf characters of this species seem to place it as a *Terminalia*, but the structure of the wood does not indicate that it belongs to the *Combretaceæ*. Its place can not be determined until perfect botanical specimens have been collected. The wood is little used at present.

This species must not be confused with *Bischofia trifoliata* Hook., which also is known by the name of TOOG.

Family MYRTACEÆ.

Eugenia spp.

Macaasin.

DISTRIBUTION OF *Eugenia* spp.—*Tayabas*.

COMMON NAMES OF MACAASIN.—Agdan (Il.); Bacains (Zamboanga); Batuan (V.); Binolo (B.); Lagilagi (V.); MACAASIN (T.); Macasin (T.); Pango (N. Luz.); Saguimsim-lumbajon (V.).

REMARKS.—The wood of MACAASIN undoubtedly comes from a number of closely related species of *Eugenia*. Only incomplete herbarium specimens have been collected. These are insufficient to determine the botanical position of MACAASIN. It is likely that some of the species of the genus *Eugenia* known as MALARUHAT will prove to be the same as MACAASIN.

Xanthostemon verdugonianus Naves.

Mancono.

DISTRIBUTION OF *Xanthostemon verdugonianus*.—*Surigao* (Magcuno); *Tinago Id.* (MANCONO).

COMMON NAMES OF MANCONO.—Macano (Sur.); Magcuno; MANCONO; (T., V.); Palo de Hierro (Sp.); Tamulauan (V.).

REMARKS.—*Xanthostemon verdugonianus* is the hardest wood known from the Philippines. Another species of this genus (*X. speciosum* Merr.) has been collected on the Island of *Culion*.

Family ARAIACEÆ.

Polyscias nodosa Seem.

Malapapaya.

DISTRIBUTION OF *Polyscias nodosa*.—*Basilan Id.*; *Bataan* (Tucud lañgit, Tucod lañgit); *Benguet*; *Palawan* (MALAPAPAYA); *Rizal* (MALAPAPAYA); *Surigao*; *Tayabas* (Bunglin, Bonlin, Bunglen).

COMMON NAMES OF MALAPAPAYA.—Bias-bias (T., V.); Binglin (T., V.); Bonlin (V., T.); Bunglay (V.); Bunglen; Bunglin (T.); Tucud lañgit (Bataan).

REMARKS.—A common and widely distributed tree with soft white wood.

Family SAPOTACEÆ.

Mimusops elengi Linn.**Bansalaguin.**

DISTRIBUTION OF *Mimusops elengi*.—*Bataan* (BANSALAGUIN, Bansalagan); *Cagayan*; *Culion Id.* (Talipopo); *Masbate* (BANSALAGUIN); *Palawan* (BANSALAGUIN); *Tayabas* (Basalaguin); *Ticao Id.* (BANSALAGUIN).

COMMON NAMES OF BANSALAGUIN.—Bansalagan; Bansalagin (T.); Bansalagon (V., T.); Bansalague (T., V.); Bansalagui (B.); BANSALAGUIN (T., Pal.); Bansalagun (V.); Bansalogue (V.); Bansalaguin; Cabique (T.); Duyog-duyog (V.); Duyon-duyon; Lamigien (N. Luz); Pasac (T., Z.); Pisec; Talipopo (V.).

REMARKS.—*Mimusops* is fairly common near the coast. The wood is sometimes confused with that of ALUPAG (*Euphoria cinerea*).

Illipe betis (Bleoc.) Merr.**Betis.**

DISTRIBUTION OF *Illipe betis*.—*Cagayan* (Pianga); *Camarines* (BETIS); *Rizal* (BETIS); *Tayabas* (BETIS, Betis lalaqui).

COMMON NAMES OF BETIS.—Bacayao (Il., Pang., T.); Banicac (V.); Baniti (B.); Betes (T.); BETIS (T., Pamp.); Betis lalaque (T.); Bitis (T.); Malini; Manili; Pagpagan (Cag.); Pagpagay (Cag.); Pailan (T.); Pianga (Cag., Il. Sur); Pappagay (T.).

REMARKS.—Another species, *Illipe ramiflora* Merr. is sold locally as TANGUILE in *Mindoro*.

Palaquium barnesii Merr.**Malac-malac or Nato.****Palaquium lanceolatum** Blanco.**Palaquium latifolium** Blanco.**Palaquium luzonlense** Vid.**Palaquium oleiferum** Blanco.**Palaquium** spp.**Palaquium tenuipetiolatum** Merr.

DISTRIBUTION OF *Palaquium luzoniense*: *Bataan* (Tagatoy, Balalangit, Palac palac); *Guimaras* (Bitanjol); *Ilocos Sur* (Gatasan); *Masbate* (Nato); *Mindoro* (Nato); *Tayabas* (Dolitan, Bitocaling); *Zambales* (Tagatoy).

Palaquium barnesii: *Masbate* (NATO).

Palaquium lanceolatum: *Camarines Sur* (Dolitan); *Guimaras* (Bulao-bulao); *Principe subprovince*; *Tayabas* (Dulitan).

Palaquium latifolium: *Bataan* (Baniti, Betis?); *Mindoro* (Alaca); *Rizal* (Alacaac); *Tarlac* (Palac palac); *Tayabas* (Alacaac, Dulitan); *Zambales* (Palac palac).

Palaquium oleiferum: *Bataan* (Betis); *Pampanga* (Malasaputi, Palac palac); *Rizal* (Alacaac); *Zamboanga*.

Palaquium tenuipetiolatum: *Bataan* (Manipnip); *Masbate*; *Tayabas* (Betis?).

COMMON NAMES OF MALAC-MALAC OR NATO.—Alaca; Alacaac (T.); Alacao (Pamp.); Alacapi (T.); Balalañgit; Banilac (V.); Baniti; Betis; Bitanjol; Bitocaling; Bulao-bulao; Dolitan; Dulitan; Gatasan; Malasaputi; Manipnip; Narec (V., Il.); Nato (V., T.); Pacancal (Pamp.); Palac palac; Tacafan (Il., Pang.); Tagatoy; Ugui; Uguin (Il.).

REMARKS.—It seems that all of our species of *Palaequium* that furnish timber have a structure so much alike that their wood is classed together commercially.

Family EBENACEÆ.

In the commerce of the world, the wood of a large number of species of this family is used as true ebony. In the Philippines, MABA BUXIFOLIA is usually spoken of as the true EBONY (Ebano, Sp.), although it is very probable that the woods known as CAMAGON and BOLONĠETA are sometimes very good EBONY.

Diospyros pilosanthera Blanco.

BolonĠeta

DISTRIBUTION OF *Diospyros pilosanthera*.—Bataan (BOLONĠETA); Camarines (Anam); Guimaras (Bantolinao); Mindoro (BOLONĠETA); Principe subprovince (BOLONĠETA); Rizal (Dambuhola, Altilina); Tayabas (Anam, Camagon, BOLONĠETA, Ebano); Tinago Id. (Ata-ata); Zambales (BOLONĠETA).

COMMON NAMES OF BOLONĠETA.—Alintatao (T.); Altilina; Amaga (V.); Amara (V.); Anam; Apopuyot (Cag.); Ata-ata (V.); Baliñgaeta (Il.); Baliñgata (Il.); Balintinao; Bantolinao (V., T.); Barlis; Batolinao (V.); Boloñgaeta (T.); Boloñgita (T.); Boloñguita (T.); Calohadia; Caloyanang; Camagon; Dalondong (V.); Dambuhola; Ebano; Galariga (T.); Galarigar (Pang.); Malatalang (T.); Tamil (Yacan); Tapilac (Moro).

REMARKS.—There are in the herbarium other species of *Diospyros* under the name of BOLONĠETA.

Diospyros discolor Willd.

Camagon.

DISTRIBUTION OF *Diospyros discolor*.—Camarines (Alahan); Guimaras (Mabolo); Infanta subprovince (CAMAGON); Pampanga (Mabolo); Surigao (CAMAGON); Rizal (Mabolo, Talang); Tayabas (CAMAGON); Zambales (CAMAGON, Mabolo).

COMMON NAMES OF CAMAGON.—Alahan; Amaga (V., T.); Amara (V.); Balatinao (Il.); Baliñgaeta (Il.); Baliñgagta (Il.); Batolinao (Ibanac); Batutinay (Moro); Caguan; Calang tapay (T.); Caloyanan (Pamp.); CAMAGON (T.); Camagong (T.); Camguan (T.); Himbabalut (V.); Mabolo (T., N. Luz.); Malatapay (T.); Tabug (Neg.); Talang (T., Pamp.); Tibig (T.).

REMARKS.—It seems that there are other species besides *D. discolor* which furnish CAMAGON.

Maba buxifolia Pers.**Ebony.**

DISTRIBUTION OF *Maba buxifolia*.—*Bucas Id.*; *Camarines* (Banahian); *Capiz*; *Dinagat Id.* (Bantolinao); *Sinago Id.* (Tanguintin); *Surigao* (Bantolinao); *Zambales* (Camagon, Ebano).

COMMON NAMES OF EBONY.—Ata-ata (V.); Balatinao (Il.); Banahian; Bantolinao (V.); Caloyanan (Pamp.); Ebano (Sp.); EBONY (Eng.); Galarigal (T.); Luyong (T.); Malatalang (T.); Tanguintin (Sur.).

REMARKS.—It seems that there is more than one species of *Maba* in the Islands; but it is very doubtful if the wood of the different species is commercially distinct.

Family APOCYNACEÆ.

Alstonia macrophylla Wall.**Batino.**

DISTRIBUTION OF *Alstonia macrophylla*.—*Camarines* (BATINO); *Guimaras* (Itang-itang); *Mindoro* (BATINO); *Principe subprovince* (BATINO); *Rizal* (BATINO); *Tayabas* (BATINO).

COMMON NAMES OF BATINO.—BATINO (T.); Itang-itang; Tanguilan (V.); Tañgitan (V.).

REMARKS.—A widely distributed tree.

Alstonia scholaris R. Br.**Dita.**

DISTRIBUTION OF *Alstonia scholaris*.—*Albay* (DITA); *Balabac Id.* (Calumpit); *Bataan* (DITA); *Camarines* (Ditaa); *Laguna*; *Mindoro* (DITA); *Palawan*; *Rizal* (DITA); *Tayabas* (Ditaa); *Union* (Dalipoen); *Zamboanga* (Ditaa).

COMMON NAMES OF DITA.—Andarayan (Cag.); Bitá (V.); Calumpit; Dalipoen (Il.); Dalipoen; Dalipaoyan (Il.); Dalipauen (Il.); Dalipauin (N. Luz.); Dallaparen (Il.); Dal-lopayen (Il.); Darita (Il.); DITA (T.); Ditaa (T., Moro); Ditaan (B.); Ditta (T.); Lanitan (V.); Laya (Il.); Oplay (Cag.); Pasnit, Polay (Pang.); Tanitan (V.).

REMARKS.—A scarce but widely distributed tree.

Wrightia laniti (Blanco) Merr.**Lanete.**

DISTRIBUTION OF *Wrightia laniti*.—*Bataan* (LANETE); *Cagayan*; *Culion Id.*; *Ilocos Sur* (Lanuti); *Laguna*; *Mindoro* (LANETE); *Negros Occidental* (LANETE); *Rizal* (LANETE, Laniti); *Zambales* (LANETE, Lanoti).

COMMON NAMES OF LANETE.—Alanote; Anotong (Z.); Balubat (N. Luz.); Banete (B.); Bantolinao (B.); Lamisi (Cag.); Lamusi (Il.); Lanaton (Il.); LANETE (T.); Laniti (Il., T.); Lannoi (Cag.); Lanote (Pang.); Lanoti; Lanuit (Il.); Lanusi (Ibanac); Lanuti (Il.); Loñgayan; Loniti (Il.); Tanghas (V.); Tiguig (V.).

REMARKS.—This valuable tree is widely but sparsely distributed.

Family VERBENACEÆ.

Vitex littoralis Decne.**Molave.****Vitex pubescens** Vahl.

DISTRIBUTION OF *Vitex littoralis*: *Bangao Id.* (MOLAVE); *Basilan*; *Bataan* (MOLAVE, Molauin); *Benguet*; *Bohol*; *Cagayan*; *Camarines* (MOLAVE, Molauin); *Camotes Ids.* (Molauin); *Cavite*; *Cebu* (Tugas, MOLAVE); *Guimaras*; *Ilocos Sur*; *Leyte*; *Masbate* (MOLAVE, Marauin); *Mindoro* (Molauan); *Negros Occidental*; *Pampanga*; *Pangasinan*; *Principe subprovince* (MOLAVE); *Rizal* (Molauin); *Surigao* (Amuyaon); *Tayabas* (Molauin, MOLAVE); *Union* (Sagad); *Zambales* (Molauin, Molauin); *Zamboanga* (Molauin).

Vitex pubescens: *Balabac* (Molauen); *Guimaras* (Salingcapa, Salinkapa); *Palawan* (Moron, MOLAVE); *Zambales* (MOLAVE).

COMMON NAMES OF MOLAVE.—Agubarao (V.); Aguherao (V.); Amoraun (B.); Amugauan (Il., V., B.); Amuyaon (Surigao); Bangogon (V.); Bongogon (V.); Bulanisan (Il.); Bulaon (V., T., Pamp.); Bulaen (Pang.); Bulaun (Z., Pamp.); Buyog tongon (Surigao); Calipapa (Moro); Cugas; Danigga (Il.); Hamulaon (T., B.); Hamuraon (B.); Hamursan (B.); Homaraun (V.); Jamolaun; Kalipapa (Moro); Lanahan (T.); Malaon (Panay); Marauin; Maraun (V.); Mauraun (V.); Molauan; Molaun (Mindoro); Molauen (Balabac Id.); Molauin (T.); MOLAVE (Sp., T.); Molavin (T.); Moran (Tagbanua); Moron; Mulaon (Iloilo); Mulauin (T., Camotes Ids.); Panuc; Sagad (Il.); Sagat (Il.); Salincapa; Salingcapa (Guimaras); Salinkapa (Guimaras); Tugan (V.); Tugao (Surigao); Tugas (V.); Tuigan (T.); Yangal (Neg.).

REMARKS.—SASALIT often appears on the market as MOLAVE.

Vitex aherniana Merr.**Sasalit.**

DISTRIBUTION OF *Vitex aherniana*.—*Negros Occidental* (Dungula); *Principe subprovince* (Igang); *Zambales* (SASALIT).

COMMON NAMES OF SASALIT.—Dungula (V.); Gualberto (Il.); Igang (Baler); SASALIT (Z.).

REMARKS.—*Vitex aherniana* resembles MOLAVE in structure and is often sold for it in the Manila market.

Tectona grandis L. f.**Teak.**

DISTRIBUTION OF *Tectona grandis*.—*Basilan Id.* (Yati); *Jolo Id.*; *Rizal* (Ticla); *Zamboanga* (Teca).

COMMON NAMES OF TEAK.—Caloyate (V.); Dalanan (V.); Dalondan (V.); Dalondon (V.); Sanguyate; Teca (T., Sp.); Ticla (T.); Tida (T.); Tiga (V.); Yati (V.).

REMARKS.—This very valuable wood seems to have a very limited range in the southern part of the Archipelago.

Family RUBIACEÆ.

Nauclea sp.

Calamansanay.

DISTRIBUTION OF *Nauclea* sp.—*Tayabas; Masbate.*

COMMON NAMES OF CALAMANSANAY.—No other common names of this species have been reported.

REMARKS.—There is possibly more than one species of *Nauclea*, which furnishes wood known as CALAMANSANAY.See also *Flacourtia inermis* and *Terminalia calamansanai*.**Sarcocephalus cordatus** Miq.

Bancal.

DISTRIBUTION OF *Sarcocephalus cordatus*.—*Bataan; Leyte; Mindoro; Palawan; Pampanga; Pangasinan; Rizal; Surigao; Tayabas.*

COMMON NAMES OF BANCAL.—BANCAL (T.); Bulala (N. Luz.).

REMARKS.—BANCAL is a large and widely distributed tree.

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