

Agathis philippinensis

Manila copal, kauri

LOCAL NAMES

English (manila copal,kauri); Filipino (almaciga); Indonesian (dammar); Malay (dammar); Trade name (Manila copal,kauri)

BOTANIC DESCRIPTION

Agathis philippinensis is a very large, evergreen tree growing up to 60 m tall and 3 m in diameter.

Warb.

Araucariaceae



Agathis philippensis foliage (Rafael T. Cadiz)



Line artwork: 1. pistillate branch
2. staminate branch
3. cone scale
4. seed, winged on one side of warb. (Rafael T. Cadiz)



Tree habit (Rafael T. Cadiz)

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BIOPHYSICAL LIMITS

Altitude: 150 - 2 200 m

Mean annual temperature: 22 - 32°C

Mean annual rainfall: 2 500 - 5 000 mm

Soil type: It prefers light, medium, heavy, freely draining, acidic soils. It has special tolerance for shallow, infertile soils.

DOCUMENTED SPECIES DISTRIBUTION

Native: Indonesia, Philippines

Exotic:



The map above shows countries where the species has been planted. It does neither suggest that the species can be planted in every ecological zone within that country, nor that the species can not be planted in other countries than those depicted. Since some tree species are invasive, you need to follow biosafety procedures that apply to your planting site.

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PRODUCTS

Timber: Its high quality timber is used for many general purposes and is much in demand.

Gum or resin: The species is tapped for its resin (traded as Manila copal).

SERVICES

Intercropping: It is planted as an enrichment crop in inadequately stocked areas or underplanted in existing plantations, as it needs partial shade in the early stages of its development.

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TREE MANAGEMENT

It tolerates wind, shade and regenerates rapidly. Stand establishment is normally through natural regeneration, planting stock and wildings.

GERMPLASM MANAGEMENT

Seeds are recalcitrant, with low viability.

PESTS AND DISEASES

Pests recorded include insects such as *Aesiotes notabilis*. Diseases include fungal infections such as *Fomitopsis pinicola*, *Phytophthora cinnamomi* etc.

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FURTHER READING

Bowen MR, Whitmore TC, 1980. Agathis - a genus of fast growing rain forest conifers. Commonwealth Forestry Review. 59(3): 307-310; 7 ref.

Hong TD, Linington S, Ellis RH. 1996. Seed storage behaviour: a compendium. Handbooks for Genebanks: No. 4. IPGRI.

Soerianegara I, Lemmens RHMJ (eds.). 1993. Plant Resources of South-East Asia. No. 5(1): Timber trees: major commercial timbers. Backhuys Publishers, Leiden.

SUGGESTED CITATION

Orwa C, A Mutua, Kindt R, Jamnadass R, S Anthony. 2009 Agroforestry Database: a tree reference and selection guide version 4.0 (<http://www.worldagroforestry.org/sites/treedbs/treedatabases.asp>)