

Tree factsheet

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***Diospyros celebica* Bakh**

Leo Goudzwaard

taxonomy	
author, year	Bakh,
synonym	
family	Ebenaceae
Eng. Name	Ebony, Black Ebony, Macassar
other names	Sulawesi: kayu maitong, kayu lotong, sora, toetandu
Dutch name	Ebben, Coromandel, gestreept ebben, Makassaars ebben
subspecies	
varieties	
hybrids	
references	CAB International. 2005. The Forestry Compendium. www.cabicompendium.org/fc
	Houtvademecum (in Dutch)
	Malik, A. Management of <i>Diospyros celebica</i> Bakh. in Indonesia. Journal of Agriculture and Rural Development in the Tropics and Subtropics, 2004 (No. Supplement 80) 102-109.
morphology	
crown habit	
max. height (m)	40
max. dbh (cm)	150
actual sizes –location, country -	
oldest tree –location-	
leaf length (cm)	6-15
leaf petiole (cm)	
leaf colour upper surface	green
leaf colour under surface	
leaves arrangement	alternate
flowering	
flowering plant	monoecious, both sexes in the same inflorescence, with unisexual flowers
flower	
flower diameter pollen cones (cm)	
inflorescence description, length	
pollination	
fruit description	berry, similar to a small persimon (or kaki)
fruiting period	
fruit; length (cm)	
fruit petiole; length (cm)	
seed; length (cm)	
seed-wing length (cm)	
weight of 1000 seeds (kg)	
seeds ripen	
seed dispersal	
seed longevity, dormancy	
habitat	
natural distribution	East Indonesia, Sulawesi, Maluku, Celebes, Philippines
introduced countries	Java
area natural habitat (ha)	
soil type	light and medium texture
water	

pH-KCl	acid, neutral and calcareous
soil fertility	tolerates shallow, infertile soil
light	tolerates shade
temperature	absolute minimum > 17 C
“optimum natural development”	moist tropical climate
remarks	grows also in seasonal climatic areas
management	
status natural range	vulnerable
status introduced range	
application	timber tree
propagation	seed
regeneration	planting, natural regeneration
optimal gap size for regeneration	
resprouting after cutting	good
growth rate	slow; 6 m ³ /ha/year reported from trial stands in Java
diseases	
insects	
ecology	
plant communities / associations	
associated trees	
wood	
trade names	Coromandel, Streaked ebony, Macassar
wood structures key characteristics	
density heartwood (kg/m ³)	1010-1270 (at 15% moisture content); 1150 (at 12% moisture content)
elastic modulus (N/mm ²)	
total above ground biomass	
fungi class durability heartwood	1; very durable
heartwood colour	brown with black stripes
sapwood colour	yellowish white
contents	
products	ornamental wood, high quality cabinets, carving, musical instruments s.a. guitars, finger boards
market	High value; sold per kg, but rare
remarks	other <i>Diospyros</i> species, <i>Albizia lebbbeck</i> , <i>Dalbergia melanoxylon</i> (African blackwood, Mozambique ebben (NL), Afrikaans Grenadille (NL)), <i>Euclea pseudebenus</i> also provide valuable ebony-like timber
	“Contact with leaves, bark, fruit, root or wood dust of trees of the <i>Diospyros</i> and <i>Euclea</i> families has caused dermatitis and respiratory irritation“ (Botanical Dermatology Database)
non-timber products	



Diospyros celebica logs, ©Debritto.net



Diospyros celebica wood ©Burgess Wood Products