

Tree factsheet

image at page 3

Vouacapoua americana

Leo Goudzwaard

taxonomy	
author, year	Aublet ,1775 in: Histoire des Plantes de la Guiane Françoise
synonym	<i>Andira aubletii</i> Benth.; <i>Vouacapoua excelsa</i>
family	Caesalpiniaceae
Eng. Name	Wacapou, Partridgewood (USA), Brownheart.
other names	Wacapou (Surinam); Epi de Ble (French Guiana), Tatbu, Sara, Sarabebeballí (Guyane), Acapu, Acapie, Wacapu (Brazil); Botonellare (Venezuela); Ati (Colombia), etc.
Dutch name	Bruinhart
subspecies	-
varieties	-
hybrids	-
references	Forestry Compendium. CAB International. 2005. www.cabicompendium.org/fc
	Sterck, F. 1997. Trees and light: tree development and morphology in relation to light availability in a tropical rain forest in French Guiana
	Sterck, F., T. Rijkers and F. Bongers. Effects of tree height and light availability on plant traits at different organization levels. In: Nouragues, Dynamics and plant-animal interactions in a neotropical rainforest. Kluwer Academic Publishers. 2001.
	Tropix. http://tropix.cirad.fr/index_gb.htm
	USDA Forest Service, Center for Wood Anatomy Research, Technology Transfer Fact Sheet, <i>Dicorynia guianensis</i>
	Toebosch, M. 2005. <i>Vouacapoua americana</i> : a detailed autoecological study on Acapu (<i>Vouacapoua americana</i> Aubl.) in the State of Pará (Brazil), with the aim of comprehensively grouping found information in a Silvics Scheme (Student report)
	References in Toebosch, 2005
morphology	no information found
crown habit	
max. height (m)	
max. dbh (cm)	
actual sizes –location, country -	
oldest tree –location-	
leaf length (cm)	
leaf petiole (cm)	
leaf colour upper surface	
leaf colour under surface	
leaves arrangement	
flowering	dry season: January - March
flowering plant	monocious
flower	hermaphroditic
flower diameter pollen cones (cm)	
inflorescence description, length	paniculate erect inflorescences, with a tomentose ferruginous axis, small yellow flowers of the cup-type and sub-sessile, regular with 5 equal sepals (Toebosch, 2005).
pollination	insects, like bees, wasps, small beetles and hover flies.
fruit description	
fruiting period	wet season: April, May and June
fruit; length (cm)	5.5-7.2 x 2.4-4.0 cm
fruit petiole; length (cm)	approx 2 cm
seed; length (cm)	4.9 x 3.4

seed-wing length (cm)	-
weight of 1000 seeds (kg)	33
seeds ripen	May and June
seed dispersal	rodents: acouchi (<i>Myoprocta spp</i>), agouti (<i>Dasyprocta spp</i>), spiny rat (<i>Proechimys spp</i>)
seed longevity	90 days
dormancy	15 days
habitat	
natural distribution	Para in Brazilian Amazonia, Surinam, Guyane, French Guiana
introduced countries	
area natural habitat (ha)	
soil type	deep loamy soils; not on clayey soils with drainage problems
water	well drained
pH-KCl	
soil fertility	usually rich
light	intermediate to light requirements in seedling and sapling stage; light demanding when maturing.
temperature	tropical
"optimum natural development"	lowland tropical rainforest; loamy floodplains
remarks	
management	little information found
status natural range	critically endangered – A: decline in numbers
status introduced range	
application	wood production, nature tree
propagation	seed
regeneration	natural regeneration
optimal gap size for regeneration	400-600 m ²
resprouting after cutting	
growth rate	depending on light conditions
diseases	
insects	many insect species cause huge mortality of seeds
ecology	
plant communities / associations	<i>Vouacapoua-Eschweilera</i> forest
associated trees	(possible) <i>Eschweilera spp</i> , <i>Chrysophyllum prieurii</i> , <i>Minquartia guianensis</i> .
wood	
trade name	Wacapou
wood structures key characteristics	Heartwood dark brown or reddish brown, deepening upon exposure, figured with fine parenchyma lines; sharply demarcated from the nearly white sapwood (from www.windsorplywood.com/tropical_woods/wacapou.html)
density heartwood (kg/m ³)	850-1050 (at 12% moisture content)
elastic modulus (N/mm ²)	19780
total above ground biomass	
fungi class durability heartwood	1; very durable
heartwood colour	dark brown or reddish brown with thin brown lines
sapwood colour	grey to grey-brown
contents	silica (0,2-2,9%)
products	high class furniture, stairs, flooring, parquet
market	sporadically on the market
non-timber products	



photo ©EcoFo (from feufol.blogspot.com)