Gindya-udu

branchlet with leaves and fruits



mature fruit





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NAME

Botanical name: Buchenavia tetraphylla (Aubl.) R.A. Howard [family: Combretaceae] Common trade names: mirindiba, tanimbuca

Common local name: gindya-udu (also known by forest inventory code DJI)

BOTANICAL CHARACTERISTICS

Large tree (to 50 m height; DBH may exceed 100 cm) with straight bole, buttresses (to 2.5 m), and typically wide-spreading horizontal branches. The bark is rough and grayish, with longitudinal fissures. The leaves are simple, with a smooth margin. They are densely clustered at the end of terminal branchlets. The flowers are very small, whitish, and are arranged in a spike. The fruit is an elongate berry, the size of an olive, but tapers at both base and tip; it is green, and contains a single stony seed.

DISTRIBUTION

Widely distributed, but not common, in dryland rainforest throughout Suriname; also occurs throughout much of the Guiana Shield, Amazonia, the southern part of Central America and the Caribbean.

WOOD CHARACTERISTICS

The wood is heavy, and overall very similar to that of other Combretaceae, such as Terminalia spp. – which are known as busi-amandra or bosamandel in Suriname, and which are also traded under the name tanimbuca – but it is shinier, yellowish brown to aolden brown.

Flat sawn: view of tangential plane

cross cut

Quarter sawn: view of radial plane

cross cut









PROCESSING

Both sawing and machining of the timber is known to be difficult with a moderate blunting effect on tools. Drying is recorded to be easy with only little degrade of the timber. Nailing and even screwing is hardly possible, pre-boring is necessary. Gluing and the finishing properties are good, resulting in finished products of high quality.

DURABILITY

Resistance to fungi and termite attack is good to very good. Resistance to attack by marine borers is poor.

AVAILABILITY

There is no data on the overall availability; annual harvesting volumes vary between 6,400 - 12,000 m³ over recent years (2010 - 2013).

KNOWN USES

Besides its fine quality, the timber is appreciated for its esthetic appearance, resulting in a wide range of decorative uses like flooring (both indoor and outside), furniture making, boat decking, decorative veneer and turnery.

NAME	The state of the s
Botanical name	Buchenavia tetraphylla
Trade name	mirindiba
Local name	gindya-udu (DJI)
THE WOOD	
• Color	Sapwood: not very distinct, pale yellowish brown Heartwood: (darker) yellowish brown to golden brown
• Color	straight to interlocked
Texture	medium to course
Green density (kg/m ³)	1050
Specific gravity (at 12% MC)	750
Volumetric shrinkage	8.7 % (TS 9.2% / RS 5.9%)
(from green to moisture content of 12%)	
MECHANICAL PROPERTIES (at a moisture content of	12%)
Static bending (N/mm ²)	MOE: 11320 – 22380 MOR: 89 – 1 <i>5</i> 1
Compression strength (N/mm²)	77
Janka - Hardness (N)	no data available
PROCESSING PROPERTIES	
Processing	Sawing: difficult, blunting effect moderate Machining: moderately difficult
Drying	easy, little degrade when slow
Nailing	pre-boring necessary
Gluing	moderate
Finishing	good
NATURAL DURABILITY	Fungi: moderate to good Termites: good to very good Marine borers: poor
KNOWN USES	external and internal flooring, furniture, boat decking, planking and framing, decorative veneer and turnery

Synonyms

This species is referred to as Buchenavia capitata in sources cited below published before 2000, and in Comvalius' Suriname Timber Species.

Information sources used

Comvalius, L.B. 2010. Surinamese Timber Species: Characteristics and Utilization (2nd Ed.). Comvalius, Paramaribo, Suriname.

Funk, V., T. Hollowell, P. Berry, C. Kelloff, and S.N. Alexander. 2007. Checklist of the Plants of the Gulana Shield (Venezuela: Amazonas, Bolivar, Delta Amacuro; Guyana, Surinam, French Gulana). Contributions form the United Sates National Herbarium 55: 1-584.

Gentry, A.H. 1993. A Field Guide to the Families and Genera of Woody Plants of Northwest South America (Colombia, Equador, Peru) with supplementary notes on herbaceous taxa. The University of Chicago Press, Chicago, USA, and London, UK, xxIII + 895 pp.

Harripersaud, P., and H. ter Steege. 2004. Virtual Tree Gulde of the Gulanas. National herbarium Netherlands, Utrecht Branch, Utrecht, The Netherlands. Published on the Internet: http://web.sceince.uu.nl/Amazon/VTGG/Main.htm

Leupen, S, and D. Yoder. 2003. Brownsberg Nature Park Tree Atlas. Unpublished digital manuscript, Stinasu, Paramaribo, Suriname.

Lindeman, J.C., and A.M.W. Mennega. 1963. Bomenboek voor Suriname. 'S Lands Bosbeheer, Paramaribo, Suriname, 312 pp. + 96 plates.

Little, E.L. Jr., and F.H. Wadsworth. 1989. Common trees of Puerto Rico and the Virgin Islands (2nd. Ed.). Little & Wadsworth, Washington, D.C., USA, x + 556 pp. Office National des Forets. 2004. Guide de reconnaissance des arbres de Guyane – 120 essences decrites (2nd. Ed.). ONF, Cayenne, Guyane, France, 374 pp. The Plant List (2013), Version 1.1. Published on the internet: http://www.theplantlist.org

Tropicos, botanical information system at the Missouri Botanical Garden. Consulted Sep. 2014 on the internet: http://www.tropicos.org

Tropix (2013), The main technological characteristics of 245 tropical wood species, Version 7. Species data sheets published on the Internet: http://tropix.cirad.fr

van Roosmalen, M.G.M. 1985. Fruits of the Gulanan Flora. Institute Systematic Botany, Utrecht University, Utrecht, The Netherlands, xli + 483 pp.



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Foundation for Sustainable Wood Processing in Suriname



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