

- 106. *Vochysia surinamensis* Stafleu** - wiswiskwari
106a. *Vochysia guianensis* (Aubl.) Stafleu
106b. *Vochysia tetraphylla* (G. Mey.) A.DC - watrakwari
106c. *Vochysia tomentosa* (G. Meyer) A.DC. - wanakwari
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Synonym (106c) : *Cucullaria excelsa* **Wahl.**

Family : Vochysiaceae

Vernacular names

- Suriname : Kwari's
 Guyana : Iteballi, Hilliteballi (*V. surinamensis*)
 French Guiana : Grignon fou, Papakaie kouali (*V. tetraphylla*),
 Wana kouali (*V. tetraphylla*)
 Brazil : Quaruba
 Venezuela : Lacre montanera / Tin-tin
 Peru : Chambo caspi

International trade name : Quaruba, Yemeri

Occurrence : Suriname, Guianas, Brazil, Venezuela, Peru

Tree description

- Bole length : bole 15 – 25 m; (*V. tetraphylla*); tree height 25 – 40 m
 Diameter : 0.30 – 0.50 m (*V. guianensis*); 0.30 – 1.0 m (*V. tetraphylla*);
 0.35 – 1.50 m (*V. tomentosa*)
 Log shape : straight, cylindrical and slender; basally swollen (*V. guianensis*);
 buttressed (*V. tomentosa*); tapered and bent (*V. tetraphylla*)

Wood description

- Sapwood : distinct, pale greyish brown or red greyish (*V. tomentosa*);
 yellowish white to greyish white (*V. guianensis*); light yellowish
 to greyish white, not sharply distinct (*V. tetraphylla*)
 Heartwood : light brownish red or roze red (*V. tomentosa*); pale pink brown to
 golden brown (*V. guianensis*); light to roze brown (*V. tetraphylla*)
 Grain : generally straight or slightly to strong interlocked
 Texture : coarse to moderately

Technological characteristics

Physical properties (106, 106a, 106b)	<i>V. tomentosa</i>	<i>V. guianensis</i>	<i>V. tetraphylla</i>
Green density	(g/cm ³): 0.87	1.05	0.98
Air dry density at 12% MC	(g/cm ³): 0.45	0.63	0.62
Tot. tangential shrinkage	(%) : 2.8	8.3	8.3
Tot. radial shrinkage	(%) : 2.3	2.4	2.4
Tot. volumetric shrinkage	(%) : 16.2	14.3	11.2

Mechanical properties (106, 106a, 106b)	<i>V. tomentosa</i>	<i>V. guianensis</i>	<i>V. tetraphylla</i>
Bending strenght at 12% MC	(N/mm ²): 64	95	78
Modulus of elasticity (MOE) at 12% MC	(N/mm ²): 8238	9925	9709
Crushing strenght at 12% MC	(N/mm ²): 34	47	43

Processing

- Sawing : easy, raised grains and woolly surfaces; blunting effect: slight
- Drying : slowly and difficult; US kiln schedule T2 - D4 for 25-38 mm and T2 - D3 for 50 mm stock
- Machining : easy with sharp cutting tools
- Gluing : good
- Nailing : good
- Finishing : good
- Veneering : peels well

Natural durability

- Decay fungi : poor
- Termites : poor
- Marine borers : poor

Treatability (heartwood) : moderate to good

End uses : interior joinery, light carpentry, furniture, utility plywood.



Log shape

Wiswiskwari - *Vochysia surinamensis* Stafleu