

**Tree factsheet**

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***Carapa guianensis* Aubl.**

Leo Goudzwaard

|   |  |
|---|--|
| <b>taxonomy</b>   |  |
| author, year  | Aubl.,   |
| synonym   |  |
| family  | Meliaceae  |
| Eng. Name   | crabwood   |
| other names   | andiroba (Brazil, Paraguay, Peru), carapa (French Gaiana), cedro macho (Costa Rica), mazabalo (Colombia), krappa (Surinam)   |
| Dutch name  |  |
| subspecies  |  |
| varieties   |  |
| hybrids   |  |
|   |  |
| <b>references</b>   | CAB International. 2005. The Forestry Compendium.<br><a href="http://www.cabicompendium.org/fc">www.cabicompendium.org/fc</a>  |
|   | USDA Forest Service<br><a href="http://www2.fpl.fs.fed.us/techsheets/Chudnoff/TropAmerican/html_files/carapa1new.html">www2.fpl.fs.fed.us/techsheets/Chudnoff/TropAmerican/html_files/carapa1new.html</a>  |
|   | Tropical Plant Databse <a href="http://www.rain-tree.com/andiroba.htm">www.rain-tree.com/andiroba.htm</a>  |
|   | Fournier, L.A. 2003. <i>Carapa guianensis</i> . Escuela de Biología, Universidad de Costa Rica<br><a href="http://www.rngr.net/Publications/tism/Folder.2003-07-11.4726/PDF.2003-12-03.2328/filetropix.cirad.fr/america/andiroba.pdf">www.rngr.net/Publications/tism/Folder.2003-07-11.4726/PDF.2003-12-03.2328/filetropix.cirad.fr/america/andiroba.pdf</a> |
|   | Wiselius, I. 2000. Hout vademecum. Ten Hagen Stam  |
|   |  |
| <b>morphology</b>   |  |
| crown habit   |  |
| max. height (m)   | 45-60  |
| max. dbh (cm)   | 100-200  |
| actual sizes –location, country -<br>oldest tree –location- |  |
| leaf length (cm)  | 30-40; leaflets 16   |
| leaf petiole (cm)   | 0,8  |
| leaf colour upper surface                                   | green  |
| leaf colour under surface                                   | green  |
| leaves arrangement  | opposite leaflets  |
| flowering   | January to March (April, August, September)  |
| flowering plant   | monoecious, both sexes in the same inflorescence, with unisexual flowers   |
| flower  |  |
| flower diameter pollen cones (cm)                           |  |
| inflorescence description, length                           | auxiliary or subterminal, mach branched, 20-80   |
| pollination   |  |
| fruit description   | quadrangular, capsule  |
| fruiting period   | May-August   |
| fruit; length (cm)  | 9-16   |
| fruit petiole; length (cm)                                  | 2  |
| seed; length (cm)   |  |
| seed-wing length (cm)                                       |  |
| weight of 1000 seeds (kg)                                   |  |
| seeds ripen   |  |
| seed dispersal  |  |
| seed longevity, dormancy                                    |  |
|   |  |
| <b>habitat</b>  |  |

|  |  |
|--|--|
| natural distribution                   | Cuba to Trinidad, Honduras to Central America, Brazil, Colombia, Peru, Venezuela                             |
| introduced countries                   | same area  |
| area natural habitat (ha)              |  |
| soil type                              | light, medium and heavy  |
| water                                  | annual rainfall 1900-3200 mm; tolerates seasonal waterlogging  |
| pH-KCl                                 |  |
| soil fertility                         | fertile  |
| light                                  | light demanding for rapid growth; tolerates shade  |
| temperature                            | tropical   |
| "optimum natural development"          | tropical lowland rainforest, marsh edges, swamp forests, alluvial riverbanks and periodically flooded plains |
| remarks                                |  |
|  |  |
| <b>management</b>                      |  |
| status natural range                   | abundant   |
| status introduced range                |  |
| application                            | timber tree  |
| propagation                            | seed   |
| regeneration                           | planting, natural regeneration   |
| optimal gap size for regeneration      |  |
| resprouting after cutting              | good   |
| growth rate                            |  |
| diseases                               |  |
| insects                                | <i>Hypsipyla grandella</i> mahogany shoot borer  |
|  |  |
| <b>ecology</b>                         |  |
| plant communities / associations       |  |
| associated trees                       |  |
|  |  |
| <b>wood</b>                            |  |
| trade name                             | Andiroba, Carapa, Crabwood, Andiroba, Demera mahogany, Krappa (Sur., NL), Brazilian or Bastard mahogany      |
| wood structures key characteristics    |  |
| density heartwood (kg/m <sup>3</sup> ) | 570 - 740 (at 12% moisture content)  |
| elastic modulus (N/mm <sup>2</sup> )   | 13700  |
| total above ground biomass             |  |
| fungi class durability heartwood       | 3-4; durable   |
| heartwood colour                       | reddish brown  |
| sapwood colour                         |  |
| contents                               |  |
| products                               | construction, veneer, flooring, high quality furniture, ship building, etc.                                  |
| market                                 | substitute for Mahogany  |
|  |  |
| <b>non-timber products</b>             |  |
| oil from nuts                          | andiroba oil, used against insects and for treatment of skin problems  |



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