PLANT FACT SHEET

Garcinia macrophylla Mart.

GENUS *Garcinia* **FAMILY** Clusiaceae

COMMON NAMES Large-leaf mangosteen, Big leaf garcinia

EDIBLE PARTS AND USES

Edible parts: Fruit

The fruit is eaten fresh.

DESCRIPTION

A small tree. It grows 15-20 m tall. The trunk is 50-60 cm across. The leaves are opposite and leathery. They are oblong or sword shaped and 20-30 cm long by 7-10 cm wide. The flowers are male and female and in the axils of leaves. The fruit is medium sized and firm and yellow. They are 5-7 cm long by 3.6 cm wide. The flesh is soft, white and subacid. There can be 4 seeds inside. The fruit is something like a mangosteen.

HABITAT

A tropical plant. It grows naturally in both the wet and dry forests in the Amazon in Brazil. It grows in humid locations. It grows between 50-400 m above sea level. Trees are damaged by frost. It can tolerate light shade. In Cairns Botanical Gardens.

PRODUCTION

Cultivation

Plants are grown from seed. The seeds are collected from ripe fruit off the tree. The seeds are removed and washed then planted fresh. They take several weeks to germinate.

Harvesting and Seed Production

Plants grow rapidly. An established tree can produce up to 200 fruit.

PICTURES



Credit: Food Plants International (Bruce French)

REFERENCES

Bendezu, Y. F., 2018, Arboles nativos de lad Region Ucayali. Instituto Nacional de Innovacion Agraria. p 95

Facciola, S., 1998, Cornucopia 2: a Source Book of Edible Plants. Kampong Publications, p 80 (As Rheedia magnifolia)

Flora 24(beibl. 2):35. 1841

Flores, Y., 2018, Arboles nativos de la Region Ucayili. Estacion Experimental Agragia Pucallpa. Pucallpa Peru, 375 p. p 95

Grandtner, M. M., 2008, World Dictionary of Trees. Wood and Forest Science Department. Laval University, Quebec, Qc Canada. (Internet database http://www.wdt.qc.ca)

Grandtner, M. M. & Chevrette, J., 2013, Dictionary of Trees, Volume 2: South America: Nomenclature, Taxonomy and Ecology. Academic Press p 261

Hermandez Bermejo, J.E., and Leon, J. (Eds.), 1994, Neglected Crops. 1492 from a different perspective. FAO Plant Production and Protection Series No 26. FAO, Rome. p15 (As Rheedia macrophylla)

Kiple, K.F. & Ornelas, K.C., (eds), 2000, The Cambridge World History of Food. CUP p 1725 (As Rheedia macrophylla)

Lopez-Diago, D. & Garcia, N., 2021, Wild edible fruits of Colombia. Biota ColomBiana 22 (2) p 35

Lorenzi, H., Bacher, L., Lacerda, M. & Sartori, S., 2006, Brazilian Fruits & Cultivated Exotics. Sao Paulo, Instituto Plantarum de Estuados da Flora Ltda. p 128

Lorenzi, H., 2009, Brazilian Trees. A Guide to the Identification and Cultivation of Brazilian Native Trees. Instituto Plantarum de Estuados da Flora Ltda. Vol. 3 p 93

Maezumi, S. Y., et al, 2018, The legacy of 4,500 years of polyculture agroforestry in the eastern Amazon. Open Research Exeter. p 38

Martin, F. W., et al, 1987, Perennial Edible Fruits of the Tropics. USDA Handbook 642 p 95 (As Rheedia benthamiana) (Also as Rheedia macrophylla)

Morton, J. F., 1987, Fruits of Warm Climates. Wipf & Stock Publishers p 309 (As Rheedia macrophylla)

NYBG herbarium "edible" (As Rheedia macrophylla)

Paz, F. S., et al, 2021, Edible Fruit Plant Species in the Amazon Forest Rely Mostly on Bees and Beetles as Pollinators. Journal of Economic Entomology, XX(XX), 2021, 1–13 (As Rheedia macrophylla)

Roa, J. A. G. & Boada, D. S. G., 2018, Fundación para el Fortalecimiento de la Fruticultura y Plantas Alimenticias no Convencionales en Colombia.

Shanley, P. et al, (Eds), 2011, Fruit trees and useful plants in Amazonian life. Non-wood Forest Products No 20. FAO, CIFOR and PPI. p 72

Smith, N., et al, 2007, Amazon River Fruits. Flavors for Conservation. Missouri Botanical Gardens Press. p 100

Sukarya, D. G., (Ed.) 2013, 3,500 Plant Species of the Botanic Gardens of Indonesia. LIPI p 300 and 489

Torre, de la, L., et al, 2008, Enciclopedia de las Plantas Útiles del Ecuador. Herbario QCA. Pontificia Universidad Católica del Ecuador. p 286

Uji, T., 2007, Keanekaragaman, Persebaran dan Potensi Jenis-jenis Garcinia. Berk. Penel. Hayati: 12 (129–135), 2007

Uji, T., 2007, Species diversity of indigenous fruits in Indonesia and its potential. Biodiversitas, 8 (2): 157-167

USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network - (GRIN). [Online Database] National Germplasm Resources Laboratory, Beltsville, Maryland. Available: www.ars-grin.gov/cgi-bin/npgs/html/econ.pl (10 April 2000)

Van den Eynden, V., et al, 2003, Wild Foods from South Ecuador. Economic Botany 57(4): 576-603

Vasquez, Roberto Ch. & Coimbra, German S., 1996, Frutas Silvestres Comestibles de Santa Cruz. p 108 (As Rheedia macrophylla)

Wiersema, J. H. & Leon, B., 2013, World Economic Plants. A Standard Reference CRC Press. 2nd Ed. p 317

World Checklist of Useful Plant Species 2020. Royal Botanic Gardens, Kew

www.colecionandofrutas.org

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