Carapa procera DC.
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**Taxonomy and nomenclature**

*Family*: Meliaceae


*Vernacular/common names*: Crabwood (Eng.). Local names include: irrere, obi, ogidi, agogo and ninku (Nigeria), andiroba (French Guiana), krappa, kalappa, karaba (Surinam).

**Distribution and habitat**

The species is distributed from Senegal to Angola and in East Africa, as well as being found in tropical America in the Amazon basin. Its habitat range includes lake-shores, riparian and mid-altitude forest, especially where drainage is impeded, and typically at 1100-1800 m altitude. It has also frequently been recorded growing on sandy soils, generally at sea level. It is a common, but localised species.

**Uses**

The good quality reddish-brown timber, known as ‘Uganda crabwood’, resembles true mahogany and is used for furniture and interior fittings. The fruit is edible and oil can be extracted from the seeds. Although little is known about how the species behaves in agroforestry systems, its potential as a multipurpose (oil-wood) crop seems great.

**Botanical description**

This species varies from being a sprawling tree in swamp forest, to a tall tree in lowland rain forest. It is typically an understorey tree, up to 25 m tall, but usually smaller, with branches that are widespread and arching, and no buttresses. The bark is reddish and smooth. The imparipinnate leaves are very variable in size, up to 1.5 m long, and mostly clustered at the end of branchlets, with a terminal dormant glandular leaflet. It has 6-18 pairs of opposite or subopposite leaflets, usually oblong-elliptic or oblanceolate-elliptic, up to 40 x 16 cm. The leaflets are a bright glossy green above, with sparse hairs on the midrib, and lateral nerves. The first seedling leaves are simple. The inflorescence is a pyramidal panicle, which is much branched and up to 70 cm long.

The white and pink fragrant flowers have 5, (sometimes 6) petals that are 5-6 mm in length.

**Flowering and fruiting habit**

It flowers early in the rainy season and fruits in the mid to late rainy season. In East Africa flowering occurs in September to November, with fruiting taking place in February to June. In tropical America flowering occurs from December to January, and fruiting from April to July.

**Fruit and seed description**

*Fruit*: There are 1-3 capsules per infructescence, which are 12-15 cm in diameter. The fruits are oblong-ellipsoid, long-beaked, or truncate and short-beaked, with ridges along each valve. There are c. 3-7 seeds per capsule. The capsules open at the apex and the base, simultaneously.

*Seed*: The seeds are dark brown and shiny. A typical seed measures c. 3 cm in length and they have a thousand seed weight of 12-35 kg. The kernel contains c. 55% oil.
Harvest and Processing

Seeds should be collected from the trees when dehiscence of the first capsules occurs. Capsules open upon drying and seeds can be manually removed from their capsules.

Sowing and germination

Seed does not require any specific pre-treatment and should be germinated within the range of 26 to 31°C, and typically germinates within 4 weeks. Germination is hypogeal.

Selected readings


Storage and viability

The seed is recalcitrant, it does not tolerate drying nor low temperatures. The lowest safe moisture content is c. 34%. For short term storage the seed should be stored with moist sawdust/vermiculite to maintain them at their harvest moisture content. During moist storage the seeds should be frequently ventilated to prevent anoxia.