Musanga cecropioides

LOCAL NAMES
English (umbrella tree, cork wood, aga umbrella tree); French (parasolier); German (schirmbaum); Luganda (mugungwa, mugunga)

BOTANIC DESCRIPTION
Musanga cecropioides is an evergreen straight stemmed tree up to 18 m tall. The tree’s crown is umbrella-like, with very stout and pithy branchlets producing no latex. Stilt roots thin and unbranched when young, low and massive when older. Bark smooth and grey, slash pinkish or often greenish, thin, very soft, pulpy-granular, brownish on exposure. Short spines are sometimes found on the trunk. Large stipular sheaths enclose the bud.

Leaves digitately divided into 12-15 spreading entire, narrow, shortly acuminate segments, up to 45 cm long and 10 cm broad, covered with greyish indumentum beneath; lateral nerves numerous, very conspicuous beneath; stipules large, conate, 15-20 cm long, densely pubescent.

Male trees are sympodial in growth, producing leaf opposed (terminal) panicle like inflorescence of small heads on new wood, each flower with joined sepal round a single stamen and accompanied by 2 glands. Male flowers in numerous small round heads about 4 mm in diameter, female inflorescence short and club-like, about 2 cm long on a peduncle up to 12 cm long, each flower with a fused calyx, a pistil with a basal ovule and a single style and a pair of glands which secrete substances attractive to ants.

Fruit yellowish green (later brownish), succulent, up to 8 cm and containing numerous achenes.

The generic epithet is derived from the Congolese name of the tree. Some authors place the genera Musanga and Myrianthus in the family Cecropiaceae.

BIOLOGY
The fruits are dispersed by elephants and other animals.
**Musanga cecropioides**

**R. Br.**

**Moraceae**

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**ECOLOGY**

*M. cecropioides* is a pioneer colonizer constituting the first phase of succession leading to the rebuilding of rain forest. Abundant in forest clearings, swamp forest, river or lakesides, it has shown height increments of up to 5 m in one year. The tree is short-lived (life span ca 20 years) dying before it is overshadowed by taller species.

**BIOPHYSICAL LIMITS**

Altitude: 700-1 200 m
Mean annual rainfall: 1 300-2 500 mm
Soils: Prefers newly disturbed forest soil.

**DOCUMENTED SPECIES DISTRIBUTION**

Native: Angola, Cameroon, Cote d'Ivoire, Democratic Republic of Congo, Ethiopia, Ghana, Liberia, Nigeria, Sierra Leone, Sudan, Togo, Uganda

Exotic:  

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The map above shows countries where the species has been planted. It does neither suggest that the species can be planted in every ecological zone within that country, nor that the species can not be planted in other countries than those depicted. Since some tree species are invasive, you need to follow biosafety procedures that apply to your planting site.
Musanga cecropioides
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PRODUCTS
Fodder: The fruits are eaten by elephants and other animals.

Fuel: Provides poor quality firewood.

Timber: The wood is very light, white or slightly pink in colour when freshly cut, soft and coarse grained and about 265 kg/cu m at 12% moisture content. In Ghana the timber is used as roofing material. The wood is also used in making drums, construction of canoes and utensils. The poles are very commonly used as rafters, the stems are often hollowed out to make palm wine containers.

Alcohol: The bark shavings are added as intoxicants in the preparation of palm wine.

Medicine: The bark decoction is used in treating chest related ailments, the trunk sap reportedly has lactogenic activity in nursing mothers. The large stipular sheath and inflorescence are boiled in soup and administered to promote menstruation (emmenagogue). Bark infusion of M. cecropioides is gargled to allay toothache. The root bark is eaten with kola nut to cure coughs, and the bark from callouses is tied on to wounds where it is supposed to effect a cure.

Other products: The ash of freshly felled trees is used as a salt substitute.

SERVICES
Shade or shelter: Provides shade in intermediate forests.

Nitrogen fixing: M. cecropioides forms vesicular arbiscular mycorrhiza.

Soil improver: Leaf litter of the umbrella tree enriches the soil and is ideal as compost material.

Ornamental: With its attractive crown and foliage the umbrella tree is a good ornamental candidate.

Boundary or barrier or support: The soft wood of M. cecropioides is occasionally used as palings on farms.

Intercropping: M. cecropioides is used as a shade tree in coffee plantations. Prospects of its use in agroforestry systems especially for fallow depend a lot on the fallow time and its soil improvement ability. With care it could be a valuable nurse tree for young shade bearers in natural regeneration.
**Musanga cecropioides**

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**TREE MANAGEMENT**

In open naturally regenerating forest Musanga sometimes inhibits regeneration of valuable species, management with sodium arsenite which readily kills the tree in less than 24 hours, arboricides kill the tree in 2 weeks. Musanga is a light demanding species and should not be subjected to intense shade.

**GERmplasm MANAGEMENT**

The seeds are reportedly very difficult to raise artificially however, the seeds may show orthodox seed storage behaviour. There are 24 000 seeds/kg which appear to remain viable for years.
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FURTHER READING


Kunkel G. 1965. The trees of Liberia: German Forestry Commission to Liberia Report No.3. BLV.


SUGGESTED CITATION