LOCAL NAMES

Bemba (pupwechulu,pupwe); English (kundanyoka knobwood,knobwood); Luganda (ntaleyedungu); Lunda (chipupa); Nyanja (mlunguchulu); Shona (mukundanyoka); Swahili (mjafari)

BOTANIC DESCRIPTION

Zanthoxylum chalybeum is a deciduous spiny shrub or tree up to 12 m, crown rounded but open. Bark pale grey; smooth dark with scales and prickles. The bole has characteristic large, conical, woody knobs with sharp prickles. The branches also bear scattered thorns with conspicuous dark scales.

Leaves compound, usually 3-5 pairs of shiny leaflets plus a terminal leaflet; leaflets oblong to elliptic or lanceolate, 2.5-7 x 1-2.5 cm, with a strong citrus smell when crushed; sparsely dotted with pellucid glands; petiole 1-5 cm long, the petiole and rachis with small, hooked prickles scattered along the length.

Flowers sweet scented, inconspicuous, yellowish-green, in short sprays (racemes or panicles) 5-10 cm long, produced immediately below the leaves at the base of the new branchlets.

Fruit spherical, about 5 mm in diameter, reddish-brown, splitting to allow the shiny black seeds to partly protrude.

Zanthoxylum means 'yellow wood', from the Greek 'xanthos' (yellow) and 'xylon' (wood). The specific epithet chalybeum means steel grey.

BIOLOGY

Male and female flowers are on different trees.



Zanthoxylum chalybeum (Patrick Maundu)

ECOLOGY

Z. chalybeum is a tree of medium to low altitudes in dry woodland or grassland, often on termite mounds.

BIOPHYSICAL LIMITS Altitude: 0-1 600 m

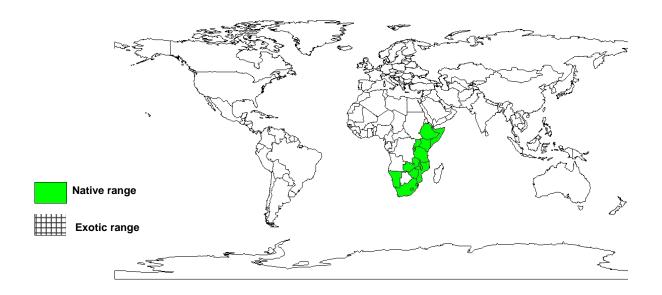
Mean annual rainfall: 750-1 500 mm

DOCUMENTED SPECIES DISTRIBUTION

Native: Burundi, Democratic Republic of Congo, Ethiopia, Kenya, Lesotho, Malawi, Mozambique, Namibia,

Rwanda, Somalia, South Africa, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe

Exotic:



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.

Zanthoxylum chalybeum

Engl.

Rutaceae

PRODUCTS

Food: When dried, the leaves can be brewed to make a kind of tea.

Fodder: The leaves and fruit are eaten by goats throughout the year. The branches are sometimes lopped for feed.

Fuel: Z. chalybeum is a good firewood tree; it burns easily.

Timber: Timber is very hard, heavy, elastic and highly durable. It works well, although it is difficult to nail; finishes and polishes well and has been used for carving, turnery and walking sticks. The twigs are used as toothbrushes.

Medicine: Bark extracts are said to cure malaria.

Zanthoxylum chalybeum

Engl.

Rutaceae

TREE MANAGEMENT Coppicing and pollarding are recommended.

GERMPLASM MANAGEMENT There are approximately 30 000 seeds/kg.

Engl.

Rutaceae

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