

Durio zibethinus

Common name(s)

Durian,

Edible portion:

Fruit, Seeds, Leaves,



Distribution

A tropical plant. A tree of the humid tropics preferably below 300 m altitude but they may grow up to about 800 m above sea level in the equatorial tropics. Trees are mainly within 15° latitude of the equator. They need plenty of soil moisture and a rich soil. For a tropical tree it can tolerate cooler temperatures down to 23°C and can tolerate temperatures up to 46°C. A rainfall of over 2000 mm evenly distributed throughout the year is best. A drier period during flowering is beneficial. Poorly drained or sandy soil are not suitable. It can grow well in acid soils with pH 5-6.5. In the Philippines they occur from Davao to Butuan and central Mindanao. It suits hardiness zone 12.

Description

A large evergreen tree up to 30-50 m high and with buttresses. The bark is dark red-brown and rough and peels off irregularly. The leaves are alternate and oval. They are about 10 to 15 cm long and 3 to 5 cm wide. The upper surface is smooth and shiny and the midrib is sunken. The lower surface is covered with silver scales. The flowers are on the older branches and form bunches of flowers where the lower flower stalks are longer. They have 3 to 30 flowers on a main stalk up to 5 cm long. The fruit are green to yellow, fat and up to 25 cm long by 20 cm wide. They have sharp spines over the surface. The seeds are completely covered with a yellowish soft very sweet seed covering. The fruit drop unopened. As the fruit ripens it splits open naturally into 3-5 sections which have large seeds embedded in a yellow coloured pulp. The seeds are oval and 4-5 cm long by 2.5-3.5 cm wide.

Use

The flesh around the seeds is eaten. Fruit need to be eaten within 2 days of falling from the tree. Fruit should only be opened at time of eating as the flesh goes sour. The unripe fruit can be cooked as a vegetable. Fruit are also processed for ice-creams and desserts.

The seeds are edible, usually cooked.

The young leaves and shoots can be cooked and eaten.

The raw fruit is used as a vegetable or in soups.

Cultivation

Trees grow readily from seed. Seeds need to be fresh. Seeds germinate in about 3 days and can be transplanted in about 4 weeks. Seeds do not breed true. Trees fruit about 7 years after planting. Trees can be grown by budding or grafting. A spacing of at least 14 m between plants is needed. Grafted trees seldom reach 20 m height. Heavy mulching near the trunk can help patch canker (*Phytophthora palmivora*) to develop.

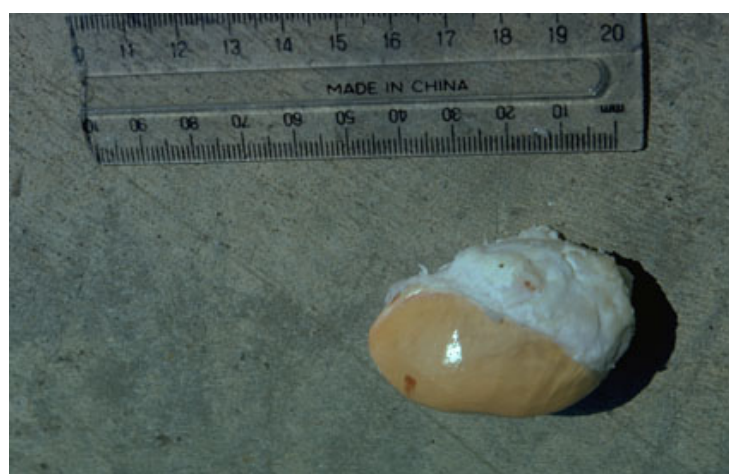
Trees should be pruned and shaped for uniform branching and by topping to reduce excessive growth and give optimum production.

Production

Grafted trees can produce in 4-5 years but seedling trees take 10 years. Flowers are cross pollinated by bats. Normally flowers cannot self pollinate. Flowers open in the afternoon and fall by next morning. Up to 50 fruit can be produced per tree per year. Between 0 and 400 fruit can grow on one tree and this varies with season. Fruit can be up to 3-5 kg weight. Fruiting is seasonal. Fruit take between 90 to 130 days from flowering to maturity depending on variety.

Nutritional values

Edible Part	Moisture %	Energy kJ	Energy kcal	Protein g	Provit A µg	Vit C mg	Iron mg	Zinc mg
(per 100 grams of edible portion)								
Seeds	51.5	794	190	2.6			1.0	
Fruit - raw	61.1	602	144	2.5	5	24	0.7	0.3



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Indexing Data (print optional)

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Synonyms

Durio acuminatissima Merr.;

Other common names

Ambetan, Civet fruit, Dian, Dulian, Durang kampong, Duren, Durian hutan, Durian liar, Durio, Du-yin, Hampak, Kadu, Kalang, Lahong, Liu lian, Pele diyan, Penak, Pendok, Rian amat, Sempa, Shempa, Sau rieng, Thurian, To-ray, Tuang, Turen, Turian, Tutong,

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