



TREE SPECIES (SCIENTIFIC NAME)

*Citrus aurantium*

ENGLISH COMMON NAME

Tangor, Bitter Orange

INDONESIAN COMMON NAME

Jeruk siam, Jeruk manis

TREE FAMILY

RUTACEAE

AVERAGE LEAF SIZE (CM)

10cm × 5cm  
Length Width

ELEVATIONAL RANGE (M)

0–2000m

TREE HEIGHT

SHRUB (1–10M)



DISTRIBUTION



EXOTIC IN INDONESIA

NATIVE TO

Region: Asia

EXOTIC IN

SE Asia: Cambodia, Laos, Myanmar, Vietnam

Indonesia: Sumatra

## COFFEE AGROFORESTRY INFORMATION

COFFEE SYSTEM



ROBUSTA



ARABICA

COFFEE IMPACT

MAY COMPETE WITH  
COFFEE

REGENERATION



REGENERATES NATURALLY

CULTIVATION



PLANTED

PREVALENCE



COMMON IN COFFEE AGROFORESTRY

TREE MANAGEMENT

Propagated by seed or budding. Seed should be harvested from ripe fruit, washed thoroughly, and sown in containers immediately. Sow stored seeds in containers as soon as possible. Germination usually occurs within 2-3 weeks. Seedlings must be watered and kept well ventilated. Spacing 5 m x 6 m (333 trees/ha). 'Indian River', 'Bessie' and 'Madam Vinous' rootstocks are resistant to foot rot. Irrigation required during dry periods following planting (10 L water per week). Put 1 kg rock phosphate in the bottom of the hole at planting. After returning and settling top soil the plant should be above field level to reduce the risk of foot rot. In wet areas a cover crop is necessary to prevent erosion (*Pueraria phaseoloides* is one recommendation). Regularly attacked by Citrus Greening Citrus Vascular Phloem Disease (CPVD), especially at lower altitudes (<1000 masl) but less affected by CVPD at higher altitudes (>1000 masl). Able to withstand dry periods and poor soil but it prefers a deep, well-drained yet moisture retaining loamy soil and full sun. Trees are hermaphroditic and insect pollinated.

## TREE BENEFITS AND USES

FARMER USES

**Food, Livestock Forage, Lumber, Medicinal, Product**

Leaf decoction with salt is taken orally for digestive tract ailments, nerve disorders, fever, asthma, blood pressure, general fatigue, and vomiting. Crushed leaves or fruit juice is massaged into the skin to relieve itching. Macerated root, leaf, or fruit mesoderm is taken orally for urethritis. Macerated fruit mesoderm or bark decoction is taken orally for liver ailments. Fruit juice or leaf decoction with sugar is taken orally for cold and loss of appetite, while crushed leaf decoction as a bath relieves headache and rheumatism. Broken bones are massaged with roasted fruit. Leaf oil has sedative properties. Fruit is generally eaten fresh. Fruits can be sold at local markets.

FARM SERVICES

**Coffee Shade**

BIODIVERSITY BENEFITS

Unknown

Last Updated: February 4, 2021

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