



TREE SPECIES (SCIENTIFIC NAME)

Parkia speciosa

ENGLISH COMMON NAME

Bitter bean

INDONESIAN COMMON NAME

Petai, Pete (Javanese)

TREE FAMILY

FABACEAE

AVERAGE LEAF SIZE (CM)

0.7cm × **0.2cm**
Length Width

ELEVATIONAL RANGE (M)

0–1400m

TREE HEIGHT

MEDIUM (20–35M)



DISTRIBUTION



NATIVE TO INDONESIA

NATIVE TO

Region: Asia

Malaysia, Philippines, Singapore, Thailand

Indonesia: Borneo, Java, Sulawesi, Sumatra

COFFEE AGROFORESTRY INFORMATION

COFFEE SYSTEM



ROBUSTA



ARABICA

COFFEE IMPACT



BENEFICIAL TO COFFEE

REGENERATION



REGENERATES NATURALLY

CULTIVATION



PLANTED

TREE MANAGEMENT

Propagated by seedlings. Pollinated by bats and seed pods dispersed by birds. Able to withstand dry periods and poor soil, but ample space and light are necessary for optimal growth. Long lived tree.

PREVALENCE



COMMON IN COFFEE AGROFORESTRY

TREE BENEFITS AND USES

FARMER USES



Food, Fuelwood, Lumber, Medicinal, Product

Spice, vegetable, fruit, and seeds can be sold at local market and are also consumed with the seeds sometimes used as a vegetable as they have a garlic flavor, half-ripe pods pickled in salt, and young leaves and fresh parts of the flower stalks eaten raw. The seeds are known to reduce blood sugar levels and are used in treatment of kidney pain and inflammation, cancer, diabetes, liver pain, swelling, colic, cholera, used as an antiparasitic, and are applied externally to wounds and ulcers. The wood is used locally for temporary light construction, carpentry, matches, clogs, disposable chopsticks, and fishnet floats.

FARM SERVICES



Coffee Shade, Soil Improvement, Nitrogen Fixation

Soil improvement: high litter layer decomposition rate, reduces soil erosion

BIODIVERSITY BENEFITS



YES

Fruits and leaves feed Helmeted hornbill (*Rhinoplax vigil*) and the endangered Black-crested Sumatran langur (*Presbytis melalophus*). Black-banded squirrel and the slender squirrel are often seen stripping pieces of the outer bark to eat the inner bark or cambium.

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Image: Dulanser siburian