

FarmLens Ltd

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Crop details

Guava

Psidium guajava

Family: Myrtaceae

Categories

Fruits & Nuts

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Quick stats

Family	Myrtaceae
Typical harvest	16.5 t/ha
Varieties	1
Pests and diseases	3
Seasons	2

Crop profile

Growth habit	perennial
Days to harvest	365+
Main uses	Fruit (fresh/process)
Pollination	insect
Origin and where it grows	Tropical Americas; widely grown

Weather, soil and spacing

Best temperature	20 - 30 °C
Rainfall	800 - 1400 mm/yr
Altitude	0 - 1800 m
Best pH	5.5 - 6.8
Soil type	Wide range; best in well-drained loams
Row spacing	600 cm
Plant spacing	600 cm
Planting depth	60 cm
Seed rate	kg/ha (check local recommendation)
Nursery days	180

Simple notes for farmers

About the crop: This crop is perennial; once planted it can keep producing for many years. Harvest typically starts about 365+ days after planting.

Main use: Farmers mostly grow this crop for fruit (fresh/process).

Pollination: Mainly insect; healthy flowers and pollinators improve fruit set.

Where it grows: Tropical Americas; widely grown. Grouped under: Fruits & Nuts.

Best climate: 20 - 30 °C; 800 - 1400 mm/yr; up to about 1800 m a.s.l.

Soil: Best at pH 5.5 - 6.8; wide range; best in well-drained loams.

Farmer guide (Mwongozo wa Mkulima)

<u>Planting</u>	Plant healthy Guava seedlings or grafted plants at onset of rains in prepared pits.
<u>Transplanting</u>	Handle Guava rootballs carefully and water well after planting.
<u>Irrigation</u>	Maintain steady moisture during establishment and fruit development of Guava.
<u>Fertigation</u>	Split nutrients through active growth and fruit development in Guava.
<u>Pest scouting</u>	Scout Guava regularly for fruit flies, scales, borers, and foliar diseases.
<u>Pruning and training</u>	Prune Guava to maintain canopy light, height, and sanitation.
<u>Harvest</u>	Harvest Guava at the right maturity stage for fresh-market quality.
<u>Postharvest</u>	Keep Guava shaded and cool after harvest to preserve market quality.

Nutrient schedule (Mbolea kwa Hatua)

<u>#</u>	<u>Stage</u>	<u>DAP</u>	<u>Product</u>	<u>Rate</u>	<u>Targets (kg/ha)</u>	<u>Notes</u>
1	Establishment	0	NPK 15-15-15	150 kg/ha	N: N/A, P?O?: N/A, K?O: N/A	Improve rooting environment for Guava.
2	Fruit set	180	MOP (K2O 60%)	100 kg/ha	N: 34, P?O?: 34, K?O: 34	Balanced nutrient support for Guava.

Nutrient requirements

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
K?O	Topdress	40	kg/ha
N	Fruiting	40	kg/ha
K?O	Fruiting	50	kg/ha

Field images



Varieties

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
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Apple Guava	KE	540	Sweet; medium fruit
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Fertilizer recommendations

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Planting	Well-rotted manure	8000	Organic matter for Guava establishment.
Pre-fruiting	NPK 17-17-17	200	Balanced fertilizer ahead of major Guava crop load.

Pests and diseases

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Fruit fly	pest	Larvae in fruit	Baiting; sanitation; bagging
Fruit flies	pest	Stings, larval feeding, and rotting fruits.	Field sanitation, trapping, and timely harvest.
Anthracnose and fruit rots	disease	Lesions on flowers, leaves, or fruits reducing quality.	Prune for airflow, keep orchards clean, and protect during wet periods.

Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
rainfed orchard	15	8	25	
Managed orchard production	18	10.8	28.8	Typical orchard yield for Guava under practical management.

Season calendars

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	Low to mid-altitudes	Onset of rains	2–3 flushes/year
KE	Managed Orchard Zones	Mar-Apr or Oct-Nov	Depends on variety and agroecology

Region suitability

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Low to mid-altitudes	High
KE	Managed Orchard Zones	Medium

Source: **FarmLens Ltd** - farmlens.africa and app.farmlens.africa. Headquarters: Nairobi, Kenya. This guide was generated from the FarmLens database.