

FarmLens Ltd

Website: farmlens.africa | App: app.farmlens.africa | Headquarters: Nairobi, Kenya



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> |
|--------------------|-----------------------|-------------------------------|----------------------|
|--------------------|-----------------------|-------------------------------|----------------------|

| | | | |
|-------------|----|-----|---------------------|
| Apple Guava | KE | 540 | Sweet; medium fruit |
|-------------|----|-----|---------------------|

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.