

# FarmLens Ltd

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



Crop details

## Breadfruit

*Artocarpus altilis*

Family: Moraceae

Categories

Fruits & Nuts

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### Quick stats

<b>Family</b>	Moraceae
<b>Typical harvest</b>	20.0 t/ha
<b>Varieties</b>	1
<b>Pests and diseases</b>	2
<b>Seasons</b>	1

### Crop profile

<b>Growth habit</b>	tree
<b>Days to harvest</b>	365
<b>Main uses</b>	Starchy fruit for boiling, roasting, flour, and food security uses.
<b>Pollination</b>	insect
<b>Origin and where it grows</b>	Fits warm humid coastal and island-like agroecologies in Africa.

### Weather, soil and spacing

<b>Best temperature</b>	22 - 32 °C
<b>Rainfall</b>	800 - 1600 mm/yr
<b>Altitude</b>	0 - 2600 m
<b>Best pH</b>	6 - 7
<b>Soil type</b>	Deep, fertile, well-drained soil with good organic matter.
<b>Row spacing</b>	500 cm
<b>Plant spacing</b>	500 cm
<b>Planting depth</b>	30 cm
<b>Seed rate</b>	kg/ha (check local recommendation)
<b>Nursery days</b>	180

### Simple notes for farmers

**About the crop:** This crop has a growth habit described as "tree". Harvest typically starts about 365 days after planting.

**Main use:** Farmers mostly grow this crop for starchy fruit for boiling, roasting, flour, and food security uses..

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

**Where it grows:** Fits warm humid coastal and island-like agroecologies in Africa.. Grouped under: Fruits & Nuts.

**Best climate:** 22 - 32 °C; 800 - 1600 mm/yr; up to about 2600 m a.s.l.

**Soil:** Best at pH 6 - 7; deep, fertile, well-drained soil with good organic matter..

### Farmer guide (Mwongozo wa Mkulima)

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

### **Nutrient schedule (Mbolea kwa Hatua)**

<b><u>#</u></b>	<b><u>Stage</u></b>	<b><u>DAP</u></b>	<b><u>Product</u></b>	<b><u>Rate</u></b>	<b><u>Targets (kg/ha)</u></b>	<b><u>Notes</u></b>
1	Planting or season start	0	Well-rotted manure	8000 kg/ha	N: N/A, P?O?: N/A, K?O: N/A	Improve rooting environment for Breadfruit.
2	Pre-fruiting	90	NPK 17-17-17	200 kg/ha	N: 34, P?O?: 34, K?O: 34	Balanced nutrient support for Breadfruit.

### **Nutrient requirements**

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

### **Field images**



### **Varieties**

<b><u>Name</u></b>	<b><u>Country</u></b>	<b><u>Maturity (days)</u></b>	<b><u>Traits</u></b>
Seedless Breadfruit	TZ	365	High-yielding starchy fruit tree.

## **Fertilizer recommendations**

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

## **Pests and diseases**

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

## **Yields**

<b><u>System</u></b>	<b><u>Typical</u></b>	<b><u>Min</u></b>	<b><u>Max</u></b>	<b><u>Notes</u></b>
Managed orchard production	20	12	32	Typical orchard yield for Breadfruit under practical management.

## **Season calendars**

<b><u>Country</u></b>	<b><u>Region</u></b>	<b><u>Planting</u></b>	<b><u>Harvest</u></b>
KE	Managed Orchard Zones	Mar-Apr or Oct-Nov	Depends on variety and agroecology

## **Region suitability**

<b><u>Country</u></b>	<b><u>Region</u></b>	<b><u>Suitability</u></b>
KE	Managed Orchard Zones	Medium

Source: **FarmLens Ltd** - [farmlens.africa](http://farmlens.africa) and [app.farmlens.africa](http://app.farmlens.africa). Headquarters: Nairobi, Kenya. This guide was generated from the FarmLens database.