

# FarmLens Ltd

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



Crop details

## Lima bean

*Phaseolus lunatus*

Family: Fabaceae

Categories

Legumes & Pulses

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### Quick stats

<b>Family</b>	Fabaceae
<b>Typical harvest</b>	1.5 t/ha
<b>Varieties</b>	3
<b>Pests and diseases</b>	5
<b>Seasons</b>	3

### Crop profile

<b>Growth habit</b>	annual
<b>Days to harvest</b>	90-140
<b>Main uses</b>	Pulse; fresh/dry
<b>Pollination</b>	self
<b>Origin and where it grows</b>	Americas; tropics/subtropics

### Weather, soil and spacing

<b>Best temperature</b>	20 - 28 °C
<b>Rainfall</b>	700 - 1200 mm/yr
<b>Altitude</b>	0 - 1800 m
<b>Best pH</b>	6 - 7
<b>Soil type</b>	Well-drained loam
<b>Row spacing</b>	60 cm
<b>Plant spacing</b>	30 cm
<b>Planting depth</b>	3 cm
<b>Seed rate</b>	40 kg/ha

### Simple notes for farmers

**About the crop:** This crop is annual; it grows and is harvested in one season. Harvest typically starts about 90-140 days after planting.

**Main use:** Farmers mostly grow this crop for pulse; fresh/dry.

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

**Where it grows:** Americas; tropics/subtropics. Grouped under: Legumes & Pulses.

**Best climate:** 20 - 28 °C; 700 - 1200 mm/yr; up to about 1800 m a.s.l.

**Soil:** Best at pH 6 - 7; well-drained loam.

### Farmer guide (Mwongozo wa Mkulima)

<b><u>Planting</u></b>	Sow after onset of rains in warm soil; inoculate with Rhizobium if available; stake climbing types.
<b><u>Transplanting</u></b>	Generally not transplanted.
<b><u>Irrigation</u></b>	Maintain moisture at flowering/pod fill; avoid prolonged wet soils.
<b><u>Fertigation</u></b>	Low N needed due to fixation; supply P and K; micronutrients as needed.
<b><u>Pest scouting</u></b>	Scout for bean fly, aphids, pod borers, anthracnose; rotate chemistries.
<b><u>Pruning and training</u></b>	Stake/twine for pole types to reduce disease and ease harvest.
<b><u>Harvest</u></b>	Pick green pods regularly or dry seeds at full maturity; avoid shattering.
<b><u>Postharvest</u></b>	Dry seeds to ~12% moisture; store cool & dry; control bruchids.

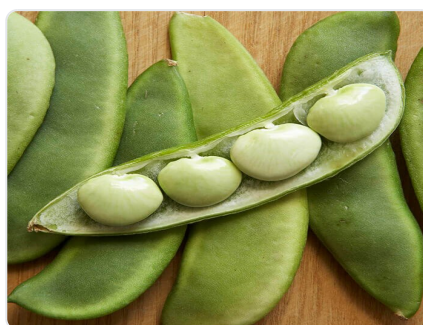
### **Nutrient schedule (Mbolea kwa Hatua)**

#	Stage	DAP	Product	Rate	Targets (kg/ha)	Notes
1	Basal	0	NPK 17-17-17	60 kg/ha	N: N/A, P <sub>2</sub> O <sub>5</sub> : 20, K <sub>2</sub> O: 20	If using DAP, reduce additional N later
2	Topdress (veg)	25	CAN 26% N (optional)	40 kg/ha	N: 10, P <sub>2</sub> O <sub>5</sub> : N/A, K <sub>2</sub> O: N/A	Only if plants pale or poor nodulation

### **Nutrient requirements**

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
P <sub>2</sub> O <sub>5</sub>	Basal	25	kg/ha
K <sub>2</sub> O	Basal	20	kg/ha
N	Topdress	10	kg/ha
K <sub>2</sub> O	Flowering	20	kg/ha

### **Field images**



### **Varieties**

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
Local Lima	KE	110	Pole type
Local Lima (bush)	KE	110	Bush type; uniform pods

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
Pole Lima	KE	130	Climbing; extended harvest

### **Fertilizer recommendations**

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Basal	NPK 17-17-17	60	
Basal	DAP 18-46-0	60	Band away from seed
Topdress (opt.)	CAN 26% N	40	Use based on leaf color/soil tests

### **Pests and diseases**

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Bean fly	pest	Stem swelling	Seed dressing; early planting
Aphids	pest	Leaf curl; honeydew/sooty mold	Conserve beneficials; spot sprays; control ants
Pod borer	pest	Bored pods/seeds	Timely picking; pheromone/light traps; selective insecticides
Anthracnose	disease	Dark lesions on pods/leaves	Clean seed; rotation; resistant varieties
Angular leaf spot	disease	Angular lesions on leaves	Sanitation; copper/protectants; airflow

### **Yields**

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
rainfed	1.2	0.5	2	
rainfed smallholder	1.2	0.5	2	
irrigated/managed	2	1.2	3	Good fertility & pest control

### **Season calendars**

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	Eastern	Oct–Nov	Jan–Mar
KE	Western	Mar–Apr	Jun–Aug
UG	Central	Mar–Apr	Jun–Jul

### **Region suitability**

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Eastern	Medium
KE	Western	High
UG	Central	High

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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.