

FarmLens Ltd

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



Crop details

Common Bean

Phaseolus vulgaris

Family: Fabaceae

Categories

Legumes & Pulses

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Quick stats

Family	Fabaceae
Typical harvest	1.4 t/ha
Varieties	1
Pests and diseases	2
Seasons	1

Crop profile

Growth habit	annual
Days to harvest	95
Main uses	Dry grain pulse and green pod vegetable for household and market use.
Pollination	insect
Origin and where it grows	Major pulse crop in East African highland and mid-altitude mixed farms.

Weather, soil and spacing

Best temperature	15 - 23 °C
Rainfall	500 - 1500 mm/yr
Altitude	0 - 3000 m
Best pH	5.8 - 7.2
Soil type	Wide range; best in well-drained soils
Row spacing	40 cm
Plant spacing	20 cm
Planting depth	1.5 cm
Seed rate	4 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 95 days after planting.

Main use: Farmers mostly grow this crop for dry grain pulse and green pod vegetable for household and market use..

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

Where it grows: Major pulse crop in East African highland and mid-altitude mixed farms.. Grouped under: Legumes & Pulses.

Best climate: 15 - 23 °C; 500 - 1500 mm/yr; up to about 3000 m a.s.l.

Soil: Best at pH 5.8 - 7.2; fertile, well-drained soils.

Farmer guide (Mwongozo wa Mkulima)

<u>Planting</u>	Establish Common Bean in a fine weed-free seedbed and keep emergence moisture steady.
<u>Transplanting</u>	Direct seed or transplant depending on production system.
<u>Irrigation</u>	Maintain even soil moisture for steady Common Bean growth and quality.
<u>Fertigation</u>	Use split nitrogen and potassium for market-quality Common Bean.
<u>Pest scouting</u>	Scout Common Bean weekly for chewing pests, sap suckers, and foliar diseases.
<u>Pruning and training</u>	No pruning required unless sanitation or staking is needed.
<u>Harvest</u>	Harvest Common Bean at market maturity for the intended use.
<u>Postharvest</u>	Cool and shade Common Bean promptly after harvest.

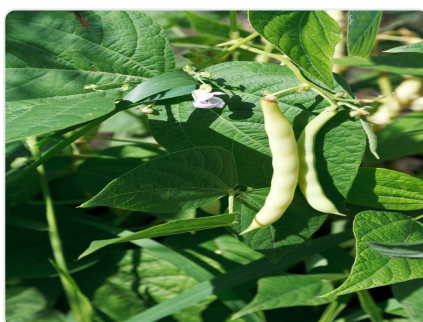
Nutrient schedule (Mbolea kwa Hatua)

#	Stage	DAP	Product	Rate	Targets (kg/ha)	Notes
1	Basal	0	NPK 17-17-17	200 kg/ha	N: 34, P ₂ O ₅ : 34, K ₂ O: 34	Basal fertilizer for Common Bean.
2	Topdress	21	CAN	100 kg/ha	N: 26, P ₂ O ₅ : N/A, K ₂ O: N/A	Support active Common Bean vegetative growth.

Nutrient requirements

Nutrient	Stage	Amount	Unit
N	Basal	35	kg/ha
P ₂ O ₅	Basal	30	kg/ha
K ₂ O	Basal	35	kg/ha
N	Topdress	25	kg/ha
K ₂ O	Topdress	20	kg/ha

Field images



Varieties

Name	Country	Maturity (days)	Traits
Rosecoco	KE	95	Popular market class with good acceptance.

Fertilizer recommendations

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Planting	Well-rotted manure	5000	Improve soil structure before Common Bean planting.
Vegetative growth	CAN	100	Split topdress for Common Bean production.

Pests and diseases

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Aphids	pest	Leaf curling and sticky honeydew.	Scout frequently and use selective control when pressure builds.
Leaf spot complex	disease	Necrotic spotting and reduced leaf quality.	Improve airflow, rotate crops, and avoid prolonged leaf wetness.

Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
rainfed smallholder	1	0.5	1.5	
Managed fresh-market production	1.8	1.3	2.7	Typical marketable Common Bean yield under irrigated or well-managed conditions.

Season calendars

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	Highland Vegetable Zones	Mar-Apr or Oct-Nov	Year-round depending on irrigation

Region suitability

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Highland Vegetable Zones	High

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