

FarmLens Ltd

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



Crop details

Yam Bean

Pachyrhizus erosus

Family: Fabaceae

Categories

Legumes & Pulses

Roots & Tubers

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Quick stats

Family	Fabaceae
Typical harvest	12.0 t/ha
Varieties	1
Pests and diseases	2
Seasons	1

Crop profile

Growth habit	annual
Days to harvest	140
Main uses	Crunchy edible root and legumes for diversified diets.
Pollination	insect
Origin and where it grows	Niche warm-season crop suited to East African smallholder diversification.

Weather, soil and spacing

Best temperature	20 - 32 °C
Rainfall	450 - 800 mm/yr
Altitude	800 - 2800 m
Best pH	6 - 7
Soil type	Fertile well-drained loam rich in organic matter.
Row spacing	30 cm
Plant spacing	10 cm
Planting depth	1.5 cm
Seed rate	5 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 140 days after planting.

Main use: Farmers mostly grow this crop for crunchy edible root and legumes for diversified diets..

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

Where it grows: Niche warm-season crop suited to East African smallholder diversification.. Grouped under: Legumes & Pulses, Roots & Tubers.

Best climate: 20 - 32 °C; 450 - 800 mm/yr; up to about 2800 m a.s.l.

Soil: Best at pH 6 - 7; fertile well-drained loam rich in organic matter..

Farmer guide (Mwongozo wa Mkulima)

<u>Planting</u>	Establish Yam 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 Yam Bean growth and quality.
<u>Fertigation</u>	Use split nitrogen and potassium for market-quality Yam Bean.
<u>Pest scouting</u>	Scout Yam 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 Yam Bean when roots size up well before they become fibrous or pithy.
<u>Postharvest</u>	Cool and shade Yam Bean promptly after harvest.

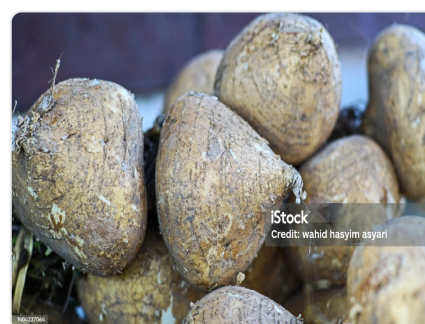
Nutrient schedule (Mbolea kwa Hatua)

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

Nutrient requirements

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

Field images



Varieties

Name	Country	Maturity (days)	Traits
Jicama Type	TZ	140	Large crisp root with good market appeal.

Fertilizer recommendations

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

Pests and diseases

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Root maggots	pest	Tunneling and feeding damage on roots.	Rotate crops and maintain field sanitation.
Root cracking and rot	disease	Cracked or rotting roots under uneven moisture.	Maintain even moisture and use well-drained soils.

Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
Managed fresh-market production	12	8.4	18	Typical marketable Yam 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.