FarmLens Ltd

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Crop details

Winged Bean

Psophocarpus tetragonolobus

Family: Fabaceae

Categories

Legumes & Pulses

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Quick stats

Family	Fabaceae
Typical harvest	6.0 t/ha
Varieties	1
Pests and diseases	2
Seasons	1

Crop profile

Growth habit	annual
Days to harvest	135
Main uses	Edible pods, leaves, flowers, and seeds with high protein content.
Pollination	insect
Origin and where it grows	Niche warm-humid legume for diversified East African horticulture.

Weather, soil and spacing

Best temperature	22 - 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	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 135 days after planting.

Main use: Farmers mostly grow this crop for edible pods, leaves, flowers, and seeds with high protein content..

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

Where it grows: Niche warm-humid legume for diversified East African horticulture.. Grouped under: Legumes & Pulses.

Best climate: 22 - 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)

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

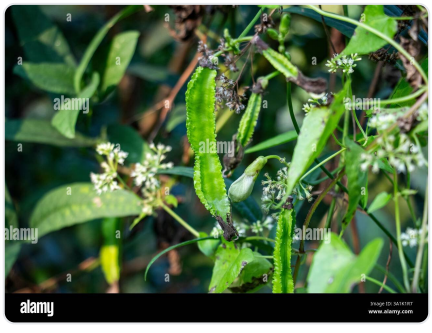
Nutrient schedule (Mbolea kwa Hatua)

#	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 Winged Bean.
2	Topdress	21	CAN	100 kg/ha	N: 26, P?O?: N/A, K?O: N/A	Support active Winged 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
Green Winged Bean	UG	135	Multipurpose climbing bean for food and fodder.

Fertilizer recommendations

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

Pests and diseases

Name	Type	Symptoms	Management
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

System	Typical	Min	Max	Notes
Managed fresh-market production	6	4.2	9	Typical marketable Winged Bean yield under irrigated or well-managed conditions.

Season calendars

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

Region suitability

Country	Region	Suitability
KE	Highland Vegetable Zones	High