

FarmLens Ltd

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



Crop details

Wasabi

Eutrema japonicum

Family: Brassicaceae

Categories

Vegetables

Spices & Condiments

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Quick stats

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

Crop profile

Growth habit	annual
Days to harvest	240
Main uses	Rhizome and leaves for specialty condiment markets.
Pollination	insect
Origin and where it grows	Only suitable for cool shaded high-value specialty production.

Weather, soil and spacing

Best temperature	8 - 18 °C
Rainfall	450 - 800 mm/yr
Altitude	800 - 2800 m
Best pH	6 - 7
Soil type	Cool, organic-rich, constantly moist but well-aerated soils or recirculating systems.
Row spacing	35 cm
Plant spacing	20 cm
Planting depth	1.5 cm
Seed rate	3 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 240 days after planting.

Main use: Farmers mostly grow this crop for rhizome and leaves for specialty condiment markets..

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

Where it grows: Only suitable for cool shaded high-value specialty production.. Grouped under: Vegetables, Spices & Condiments.

Best climate: 8 - 18 °C; 450 - 800 mm/yr; up to about 2800 m a.s.l.

Soil: Best at pH 6 - 7; cool, organic-rich, constantly moist but well-aerated soils or recirculating systems..

Farmer guide (Mwongozo wa Mkulima)

<u>Planting</u>	Establish Wasabi 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 Wasabi growth and quality.
<u>Fertigation</u>	Use split nitrogen and potassium for market-quality Wasabi.
<u>Pest scouting</u>	Scout Wasabi 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 Wasabi in the cool hours and handle gently to preserve aroma.
<u>Postharvest</u>	Cool and shade Wasabi promptly after harvest.

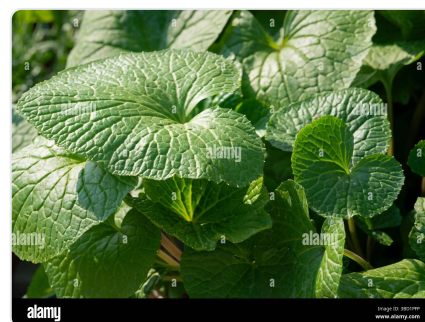
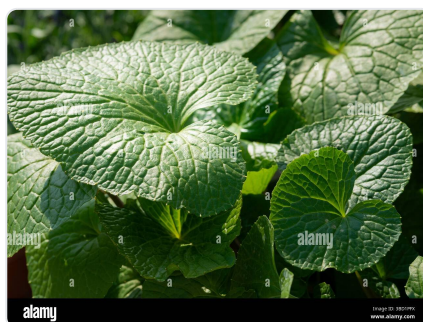
Nutrient schedule (Mbolea kwa Hatua)

#	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 Wasabi.
2	Topdress	21	CAN	100 kg/ha	N: 26, P ₂ O ₅ : N/A, K ₂ O: N/A	Support active Wasabi 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
Mazuma	KE	240	Specialty rhizome type for cool shaded production.

Fertilizer recommendations

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

Pests and diseases

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Aphids	pest	Crowding on tender shoots and reduced growth.	Use clean fields and selective control if needed.
Powdery mildew	disease	White powdery growth on leaves.	Improve airflow and avoid overcrowding.

Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
Managed fresh-market production	6	4.2	9	Typical marketable Wasabi 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.