

FarmLens Ltd

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



Crop details

Horseradish

Armoracia rusticana

Family: Brassicaceae

Categories

Vegetables

Spices & Condiments

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Quick stats

| | |
|---------------------------|--------------|
| Family | Brassicaceae |
| Typical harvest | 12.0 t/ha |
| Varieties | 1 |
| Pests and diseases | 2 |
| Seasons | 1 |

Crop profile

| | |
|----------------------------------|--|
| Growth habit | perennial |
| Days to harvest | 210 |
| Main uses | Pungent root for condiments and processing. |
| Pollination | insect |
| Origin and where it grows | Cool-season specialty root crop for highland niches. |

Weather, soil and spacing

| | |
|-------------------------|---|
| Best temperature | 10 - 20 °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 | 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 perennial; once planted it can keep producing for many years. Harvest typically starts about 210 days after planting.

Main use: Farmers mostly grow this crop for pungent root for condiments and processing..

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

Where it grows: Cool-season specialty root crop for highland niches.. Grouped under: Vegetables, Spices & Condiments.

Best climate: 10 - 20 °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 Horseradish 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 Horseradish growth and quality. |
| <u>Fertigation</u> | Use split nitrogen and potassium for market-quality Horseradish. |
| <u>Pest scouting</u> | Scout Horseradish 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 Horseradish in the cool hours and handle gently to preserve aroma. |
| <u>Postharvest</u> | Cool and shade Horseradish 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 Horseradish. |
| 2 | Topdress | 21 | CAN | 100 kg/ha | N: 26, P ₂ O ₅ : N/A, K ₂ O: N/A | Support active Horseradish 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 |
|--------------------|---------|-----------------|---------------------------------|
| Common Horseradish | KE | 210 | Strong-flavored condiment root. |

Fertilizer recommendations

| <u>Stage</u> | <u>Product</u> | <u>Rate</u> | <u>Notes</u> |
|-------------------|--------------------|-------------|---|
| Planting | Well-rotted manure | 5000 | Improve soil structure before Horseradish planting. |
| Vegetative growth | CAN | 100 | Split topdress for Horseradish 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 | 12 | 8.4 | 18 | Typical marketable Horseradish 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.