

FarmLens Ltd

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



Crop details

Rye

Secale cereale

Family: Poaceae

Categories

Cereals & Pseudocereals

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Quick stats

| | |
|---------------------------|----------|
| <u>Family</u> | Poaceae |
| <u>Typical harvest</u> | 2.0 t/ha |
| <u>Varieties</u> | 1 |
| <u>Pests and diseases</u> | 1 |
| <u>Seasons</u> | 1 |

Crop profile

| | |
|----------------------------------|--------------------------|
| <u>Growth habit</u> | annual |
| <u>Days to harvest</u> | 110-160 |
| <u>Main uses</u> | Cereal grain; cover crop |
| <u>Pollination</u> | wind |
| <u>Origin and where it grows</u> | Temperate zones |

Weather, soil and spacing

| | |
|-------------------------|--------------------|
| <u>Best temperature</u> | 10 - 18 °C |
| <u>Rainfall</u> | 450 - 700 mm/yr |
| <u>Altitude</u> | 800 - 2600 m |
| <u>Best pH</u> | 5.5 - 6.8 |
| <u>Soil type</u> | Sandy loam to loam |
| <u>Row spacing</u> | 20 cm |
| <u>Plant spacing</u> | 5 cm |
| <u>Planting depth</u> | 3 cm |
| <u>Seed rate</u> | 70 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 110-160 days after planting.

Main use: Farmers mostly grow this crop for cereal grain; cover crop.

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

Where it grows: Temperate zones. Grouped under: Cereals & Pseudocereals.

Best climate: 10 - 18 °C; 450 - 700 mm/yr; up to about 2600 m a.s.l.

Soil: Best at pH 5.5 - 6.8; sandy loam to loam.

Farmer guide (Mwongozo wa Mkulima)

Nutrient schedule (Mbolea kwa Hatua)

| # | Stage | DAP | Product | Rate | Targets (kg/ha) | Notes |
|---|-----------|-----|--------------|----------|--|-------|
| 1 | Basal | 0 | NPK 17-17-17 | 60 kg/ha | N: N/A, P ₂ O ₅ : N/A, K ₂ O: N/A | N/A |
| 2 | Tillering | 35 | Urea | 40 kg/ha | N: N/A, P ₂ O ₅ : N/A, K ₂ O: N/A | N/A |

Nutrient requirements

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

Field images



Varieties

| Name | Country | Maturity (days) | Traits |
|--------------|---------|-----------------|---------------|
| Highland Rye | KE | 140 | Cool tolerant |

Fertilizer recommendations

| Stage | Product | Rate | Notes |
|-------|--------------|------|-------|
| Basal | NPK 17-17-17 | 60 | |

Pests and diseases

| Name | Type | Symptoms | Management |
|-------|---------|--------------------|----------------------|
| Ergot | disease | Sclerotia in heads | Clean seed; rotation |

Yields

| System | Typical | Min | Max | Notes |
|--------|---------|-----|-----|-------|
|--------|---------|-----|-----|-------|

| | | | | |
|------------------|---|-----|-----|--|
| rainfed highland | 2 | 1.2 | 3.5 | |
|------------------|---|-----|-----|--|

Season calendars

| <u>Country</u> | <u>Region</u> | <u>Planting</u> | <u>Harvest</u> |
|-----------------------|----------------------|------------------------|-----------------------|
| KE | Highlands | Jun–Jul | Oct–Dec |

Region suitability

| <u>Country</u> | <u>Region</u> | <u>Suitability</u> |
|-----------------------|----------------------|---------------------------|
| KE | Highlands | Medium |

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