

# FarmLens Ltd

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



Crop details

## Turmeric

*Curcuma longa*

Family: Zingiberaceae

Categories

Spices & Condiments

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### Quick stats

<b>Family</b>	Zingiberaceae
<b>Typical harvest</b>	23.0 t/ha
<b>Varieties</b>	48
<b>Pests and diseases</b>	64
<b>Seasons</b>	48

### Crop profile

<b>Growth habit</b>	perennial
<b>Days to harvest</b>	270
<b>Main uses</b>	Fresh and dried rhizomes for spice/colouring, processing into powder and pastes.
<b>Pollination</b>	unknown
<b>Origin and where it grows</b>	Thrives in warm, humid to sub-humid mid-altitudes with reliable moisture or irrigation.

### Weather, soil and spacing

<b>Best temperature</b>	20 - 30 °C
<b>Rainfall</b>	1200 - 1600 mm/yr
<b>Altitude</b>	0 - 2000 m
<b>Best pH</b>	6 - 6.8
<b>Soil type</b>	Loose, well-drained loam/sandy loam rich in organic matter for finger development.
<b>Row spacing</b>	60 cm
<b>Plant spacing</b>	25 cm
<b>Planting depth</b>	5 cm
<b>Seed rate</b>	2000 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 270 days after planting.

**Main use:** Farmers mostly grow this crop for fresh and dried rhizomes for spice/colouring, processing into powder and pastes..

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

**Where it grows:** Thrives in warm, humid to sub-humid mid-altitudes with reliable moisture or irrigation.. Grouped under: Spices & Condiments.

**Best climate:** 20 - 30 °C; 1200 - 1600 mm/yr; up to about 2000 m a.s.l.







#	Stage	DAP	Product	Rate	Targets (kg/ha)	Notes
3	Bulking K boost	90	Sulfate of potash (SOP)	120 kg/ha	N: 0, P <sub>2</sub> O <sub>5</sub> : 0, K <sub>2</sub> O: 60	Improves finger size, density and postharvest quality.

### Nutrient requirements

Nutrient	Stage	Amount	Unit
N	Basal	40	kg/ha
P <sub>2</sub> O <sub>5</sub>	Basal	30	kg/ha
K <sub>2</sub> O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P <sub>2</sub> O <sub>5</sub>	Topdress_early	10	kg/ha
K <sub>2</sub> O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P <sub>2</sub> O <sub>5</sub>	Bulking	0	kg/ha
K <sub>2</sub> O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P <sub>2</sub> O <sub>5</sub>	Basal	30	kg/ha
K <sub>2</sub> O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P <sub>2</sub> O <sub>5</sub>	Topdress_early	10	kg/ha
K <sub>2</sub> O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P <sub>2</sub> O <sub>5</sub>	Bulking	0	kg/ha
K <sub>2</sub> O	Bulking	50	kg/ha
N	Basal	40	kg/ha
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K <sub>2</sub> O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P <sub>2</sub> O <sub>5</sub>	Bulking	0	kg/ha

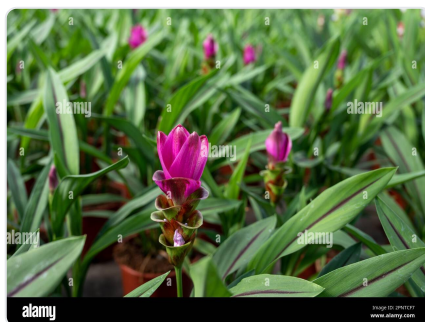
<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
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P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha

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K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
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K?O	Bulking	50	kg/ha
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P?O?	Basal	30	kg/ha
K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
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K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	30	kg/ha
K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha
N	Basal	40	kg/ha
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N	Basal	40	kg/ha
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K?O	Basal	40	kg/ha
N	Topdress_early	40	kg/ha
P?O?	Topdress_early	10	kg/ha
K?O	Topdress_early	30	kg/ha
N	Bulking	20	kg/ha
P?O?	Bulking	0	kg/ha
K?O	Bulking	50	kg/ha

**Field images**



## Varieties

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
Alleppey-type selection	KE	260	Deep colour, high curcumin; suited for drying.
Early yellow selection	TZ	240	Earlier harvest for fresh market.
Local turmeric (manjano) type	UG	270	Adapted local selection for homestead and market.
Alleppey-type selection	KE	260	Deep colour, high curcumin; suited for drying.
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### **Fertilizer recommendations**

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Basal	NPK 17-17-17 + compost	150	With 6–8 t/ha compost incorporated pre-plant.
Topdress (early)	CAN 26% N	120	6–8 weeks after emergence.
Bulking	SOP (K?SO?)	120	Boosts finger bulking and colour.

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## **Pests and diseases**

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Rhizome rot (Pythium/Fusarium complex)	disease	Yellowing, wilting, soft brown rhizomes with foul smell.	Well-drained raised beds, clean seed, remove infected stools and improve rotation.
Leaf blotch/spot	disease	Brown lesions on leaves; premature drying.	Better airflow, avoid late overhead irrigation, timely protectants when needed.
Root-knot nematodes	pest	Stunted clumps, poor bulking, knotted roots.	Use clean seed, rotate with non-hosts, add organic matter and solarise beds where feasible.
Cutworms/armyworms (early)	pest	Seedlings cut or defoliated at early stages.	Keep beds clean pre-planting; spot treat early outbreaks.
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Leaf blotch/spot	disease	Brown lesions on leaves; premature drying.	Better airflow, avoid late overhead irrigation, timely protectants when needed.
Root-knot nematodes	pest	Stunted clumps, poor bulking, knotted roots.	Use clean seed, rotate with non-hosts, add organic matter and solarise beds where feasible.
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## Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
Low-input rainfed (fresh)	12	8	16	Basic manuring and mulching; minimal fertilizer.
Managed beds (fresh)	22	15	30	Good seed, organic matter + balanced NPK, irrigation as needed.
Intensive drip + fertigation	35	25	45	High-quality seed, rigorous sanitation, steady feeding and moisture.
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### Season calendars

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	High rainfall highlands & irrigated mid-altitudes	Onset of long or short rains on raised, mulched beds.	8–10 months after planting depending on market (fresh vs dry).
TZ	Southern highlands & northern irrigated belts	Start of main rains or under irrigation any time.	Staggered harvests based on demand and curing plans.

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
UG	Moist mid-altitudes with good drainage	At onset of reliable rains on friable soils.	Most crops ready 9–10 months from planting.
KE	High rainfall highlands & irrigated mid-altitudes	Onset of long or short rains on raised, mulched beds.	8–10 months after planting depending on market (fresh vs dry).
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### **Region suitability**

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Central & Rift highlands; wet mid-altitudes	High
TZ	Southern highlands; Kilimanjaro/Arusha irrigated pockets	High
UG	Mid-altitude belts with dependable rainfall and drainage	High

Source: **FarmLens Ltd** - [farmlens.africa](http://farmlens.africa) and [app.farmlens.africa](http://app.farmlens.africa). Headquarters: Nairobi, Kenya. This guide was generated from the FarmLens database.