

# FarmLens Ltd

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



Crop details

## Tangerine

*Citrus reticulata*

Family: Rutaceae

Categories

Fruits & Nuts

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### Quick stats

<b>Family</b>	Rutaceae
<b>Typical harvest</b>	17.3 t/ha
<b>Varieties</b>	3
<b>Pests and diseases</b>	8
<b>Seasons</b>	3

### Crop profile

<b>Growth habit</b>	tree
<b>Days to harvest</b>	perennial
<b>Main uses</b>	Fresh fruit; juice/processing
<b>Pollination</b>	insect
<b>Origin and where it grows</b>	SE Asia origin; grown in humid/semi-humid tropics & subtropics

### Weather, soil and spacing

<b>Best temperature</b>	20 - 30 °C
<b>Rainfall</b>	900 - 1400 mm/yr
<b>Altitude</b>	0 - 1800 m
<b>Best pH</b>	6 - 7
<b>Soil type</b>	Deep, well-drained loam/sandy loam; high organic matter
<b>Row spacing</b>	600 cm
<b>Plant spacing</b>	600 cm
<b>Seed rate</b>	kg/ha (check local recommendation)
<b>Nursery days</b>	270

### Simple notes for farmers

**About the crop:** This crop has a growth habit described as "tree". Harvest typically starts about perennial days after planting.

**Main use:** Farmers mostly grow this crop for fresh fruit; juice/processing.

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

**Where it grows:** SE Asia origin; grown in humid/semi-humid tropics & subtropics. Grouped under: Fruits & Nuts.

**Best climate:** 20 - 30 °C; 900 - 1400 mm/yr; up to about 1800 m a.s.l.

**Soil:** Best at pH 6 - 7; deep, well-drained loam/sandy loam; high organic matter.

### Farmer guide (Mwongozo wa Mkulima)

<b><u>Planting</u></b>	Plant at onset of rains or irrigate; incorporate compost and starter P; stake and mulch young trees.
<b><u>Transplanting</u></b>	Protect from wind and sunscald; maintain weed-free basins.
<b><u>Irrigation</u></b>	Even moisture, especially bloom to fruit fill; avoid prolonged drought/ponding.
<b><u>Fertigation</u></b>	Split N into multiple light feeds; ensure K and Ca/Mg; adjust via leaf tests.
<b><u>Pest scouting</u></b>	Scout for citrus fruit flies, aphids, scales/mealybugs, psyllids (HLB risk), canker and Phytophthora.
<b><u>Pruning and training</u></b>	Form strong framework; remove suckers and crossing wood; open canopy for light and airflow.
<b><u>Harvest</u></b>	Harvest at full color and maturity index (°Brix/acid); clip to avoid rind tearing.
<b><u>Postharvest</u></b>	Shade-cool; handle gently; store 5–10 °C at high RH; avoid condensation and decay.

### **Nutrient schedule (Mbolea kwa Hatua)**

#	Stage	DAP	Product	Rate	Targets (kg/ha)	Notes
1	Basal at planting	0	Compost + DAP 18-46-0 (light)	5 kg/tree (compost) + 100 g DAP	N: N/A, P?O?: 10, K?O: N/A	Mix in backfill; keep fertilizer off stem
2	Vegetative split N	90	CAN 26% N	150 g/tree	N: 10, P?O?: N/A, K?O: N/A	Ring-apply under canopy; water in
3	Pre-bloom balanced	250	NPK 17-17-17	200 g/tree	N: 10, P?O?: 10, K?O: 10	Light dose before bloom
4	Fruit fill K boost	320	Sulfate of potash (SOP)	250 g/tree	N: N/A, P?O?: N/A, K?O: 20	Prefer SOP for fruit quality
5	Micronutrient foliar	300	Zn/Mn/B foliar (as label)	0 —	N: N/A, P?O?: N/A, K?O: N/A	Apply during cool hours

### **Nutrient requirements**

Nutrient	Stage	Amount	Unit
N	Basal	60	kg/ha
P?O?	Basal	40	kg/ha
K?O	Basal	80	kg/ha
N	Establishment	20	kg/ha
P?O?	Establishment	20	kg/ha
K?O	Establishment	20	kg/ha
N	Vegetative	50	kg/ha
K?O	Vegetative	40	kg/ha
N	Flower_set	20	kg/ha

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
P?O?	Flower_set	20	kg/ha
K?O	Flower_set	40	kg/ha
N	Fruit_fill	10	kg/ha
K?O	Fruit_fill	60	kg/ha
N	Maintenance	40	kg/ha
P?O?	Maintenance	10	kg/ha
K?O	Maintenance	40	kg/ha

### **Field images**



### **Varieties**

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
Local Tangerine	KE	720	Sweet; easy peel
Local mandarin selection	KE	900	Good peelability; fresh market
Clementine-type selection	TZ	900	High juice; sweet; small–medium fruit

### **Fertilizer recommendations**

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Basal	Compost (well-decomposed)	4000	Mulch rings
Vegetative	CAN 26% N	80	Split 2–3× on young trees
Fruit fill	Sulfate of potash (SOP)	60	Quality improvement

### **Pests and diseases**

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Citrus psyllid	pest	Leaf curling; honeydew	Monitoring; IPM; prune
Fruit flies (Tephritidae)	pest	Stings; larval tunnels; fruit drop	Protein baiting; sanitation; fruit bagging; timely harvest

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Citrus aphids	pest	Leaf curl; honeydew/sooty mold; virus risk	Control ants; conserve predators; selective sprays if needed
Scales & mealybugs	pest	Sticky honeydew; sooty mold; twig decline	Prune for airflow; oils/soft insecticides; biological control
Citrus psyllid (HLB vector)	pest	Shoot distortion; HLB risk	Vector monitoring; rogue infected plants; IPM program
Citrus canker	disease	Corky lesions on leaves/fruit	Sanitation; windbreaks; copper protectants
Phytophthora gummosis/root rot	disease	Gum exudation; collar rot; decline	Good drainage; avoid trunk wetting; phosphonates if needed
Greasy spot/sooty blotch	disease	Leaf spots; premature drop	Canopy opening; protectants in wet weather

## Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
orchard	15	8	25	
smallholder rainfed	12	8	18	25–50 kg/tree common at maturity
irrigated/intensive	25	15	35	Good cultivars, pruning, nutrition

## Season calendars

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	Coastal & mid-altitudes (long rains)	Mar–Apr	Jul–Nov
KE	Coastal & mid-altitudes (short rains)	Oct–Nov	Feb–Jun
TZ	Coastal belt	Mar–Apr	Aug–Dec

## Region suitability

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Coastal & mid-altitudes	High
KE	Cool highlands (>1800 m)	Low
KE	Low to mid-altitudes	High
TZ	Coastal belt & isles	High
UG	Warm lowlands (lake shore)	Medium

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