

FarmLens Ltd

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



Crop details

Macadamia

Macadamia integrifolia

Family: Proteaceae

Categories

Fruits & Nuts

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Quick stats

Family	Proteaceae
Typical harvest	2.6 t/ha
Varieties	17
Pests and diseases	18
Seasons	1

Crop profile

Growth habit	tree
Days to harvest	365
Main uses	Nut crop for high-value domestic and export markets.
Pollination	insect
Origin and where it grows	Commercial orchard crop in Kenyan and regional highland zones.

Weather, soil and spacing

Best temperature	14 - 26 °C
Rainfall	800 - 1600 mm/yr
Altitude	0 - 2600 m
Best pH	6 - 7
Soil type	Deep, fertile, well-drained soil with good organic matter.
Row spacing	500 cm
Plant spacing	500 cm
Planting depth	30 cm
Seed rate	kg/ha (check local recommendation)
Nursery days	180

Simple notes for farmers

About the crop: This crop has a growth habit described as "tree". Harvest typically starts about 365 days after planting.

Main use: Farmers mostly grow this crop for nut crop for high-value domestic and export markets..

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

Where it grows: Commercial orchard crop in Kenyan and regional highland zones.. Grouped under: Fruits & Nuts.

Best climate: 14 - 26 °C; 800 - 1600 mm/yr; up to about 2600 m a.s.l.

Soil: Best at pH 6 - 7; deep, fertile, well-drained soil with good organic matter..

Farmer guide (Mwongozo wa Mkulima)

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
P?O?	Basal	30	kg/ha
K?O	Basal	40	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Fruiting	40	kg/ha
K?O	Fruiting	50	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
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P?O?	Basal	20	kg/ha
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N	Basal	40	kg/ha

<u>Nutrient</u>	<u>Stage</u>	<u>Amount</u>	<u>Unit</u>
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
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P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha
N	Topdress	40	kg/ha
N	Basal	40	kg/ha
P?O?	Basal	20	kg/ha
K?O	Basal	60	kg/ha

<u>Name</u>	<u>Country</u>	<u>Maturity (days)</u>	<u>Traits</u>
EMBRAPA/HAES selection	KE	1460	High kernel recovery

Fertilizer recommendations

<u>Stage</u>	<u>Product</u>	<u>Rate</u>	<u>Notes</u>
Planting	Well-rotted manure	8000	Organic matter for Macadamia establishment.
Pre-fruiting	NPK 17-17-17	200	Balanced fertilizer ahead of major Macadamia crop load.

Pests and diseases

<u>Name</u>	<u>Type</u>	<u>Symptoms</u>	<u>Management</u>
Nut borer	pest	Bored nuts; drop	Sanitation; monitoring
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Fruit flies	pest	Stings, larval feeding, and rotting fruits.	Field sanitation, trapping, and timely harvest.
Anthracnose and fruit rots	disease	Lesions on flowers, leaves, or fruits reducing quality.	Prune for airflow, keep orchards clean, and protect during wet periods.
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Yields

<u>System</u>	<u>Typical</u>	<u>Min</u>	<u>Max</u>	<u>Notes</u>
orchard	2.5	1	4	In-shell nuts

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orchard	2.5	1	4	In-shell nuts
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Managed orchard production	3.5	2.1	5.6	Typical orchard yield for Macadamia under practical management.
orchard	2.5	1	4	In-shell nuts
orchard	2.5	1	4	In-shell nuts
orchard	2.5	1	4	In-shell nuts
orchard	2.5	1	4	In-shell nuts
orchard	2.5	1	4	In-shell nuts
orchard	2.5	1	4	In-shell nuts
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Season calendars

<u>Country</u>	<u>Region</u>	<u>Planting</u>	<u>Harvest</u>
KE	Managed Orchard Zones	Mar-Apr or Oct-Nov	Depends on variety and agroecology

Region suitability

<u>Country</u>	<u>Region</u>	<u>Suitability</u>
KE	Highlands	High
KE	Managed Orchard Zones	Medium

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