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For Quality Seedling and Agro services

PLANTING GUIDES

AVOCADO

Varieties available at the ATL nursery:

- Hass
- Fuerte

Soil and Climate Requirements:

Avocadoes thrive well in well drained soils that are fertile.

Suitable temperatures for their growth should be between 20-24°C.

PH of 5-7 is recommended.

Planting and Spacing:

Spacing depends on the region where you are planting ranging from 5m x 5m – 10m x 10m

Planting procedure:

Prepare square shaped planting pit measuring 2feet by 2feet and 2feet deep

Separate top soil and subsoil

Mix the topsoil with one debe of well decomposed manure and 100g of planting fertilizers (DAP, DSP or TSP)

Fill back the mixture into the hole

Remove the polythene bag carefully not to injure the seedling roots

Plant your seedling firmly at the center of the hole and water thoroughly.

The irrigation should continue if the weather is dry until the seedling anchors properly.

For clarification, kindly call Aberdare Technologies Limited, the experts in tissue culture bananas, fruit and tree seedlings.

MACADAMIA

Varieties available at the ATL nursery:

- Kiambu-3 (agronomical requirement below 1750m above sea level, rainfall 1600mm and temperatures 17.5° c -19° c)
- Muranga-20- (agronomical requirement below 1550-1750m above sea level, rainfall 1200mm and temperatures 17.5° c -19° c)
- Embu-1- (agronomical requirement below 1550-1750m above sea level, rainfall 1200mm and temperatures 18.5° c -20° c)
- Kirinyaga-1

Soil and Climate Requirements:

In order to thrive well, macadamia seedlings should be planted in deep, well-drained, fertile soils.

They perform well at an altitude of 1500-1850m with optimum temperature, 17-21°C and pH of 5-6.

Planting Procedure:

Dig holes of about 60cmx60cm.

Separate the topsoil from the subsoil.

Mix the top soil with about 100-150g of poultry manure or a teaspoon of slow release fertilizer can be added.

Return the mixture in the hole.

Spacing:

Inter-row and intra-row spacing should be maintained at 5mx4m with a plant population of one hundred and eighty two (182) plants per acre.

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MANGO

Varieties available at the ATL nursery:

- Apple
- Tommy
- Van dyke
- Kent
- Ngowe

Soil and Climate Requirements:

For the best fruit quality and yield, deep fertile soils that are well drained are most suitable.

Production of mangoes requires temperatures between 24°C - 28°C.

Altitude should be about 1200m but would also do well up to an altitude of 1800m.

Planting Procedure:

The topsoil and subsoil must be separated.

Mix the topsoil with about 20kg (one debe) of well decomposed manure and 60g of Triple Super Phosphate

Return this mixture in the hole.

Spacing:

Mangoes planted under spacing of 5m x 5m – 10m x 10m depending on the variety thrive well.

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PASSION FRUIT

Varieties available at the ATL nursery:

- Grafted purple passion (Passiflora edulis var purpla)
- Sweet yellow passion (Passiflora edulis var flavircarpa)

Soil and Climate Requirements:

Passions thrive well under deep, well drained fertile soils.

Purple passion does well in areas 1,400m above sea level.

Yellow passion fruit does in areas 1,300m below sea level.

Planting Procedure:

Dig square holes of width 45cm and depth 45cm.

Separate the topsoil from the subsoil.

The topsoil should be thoroughly mixed with 10kg of well-rotted manure and 60g of slow release fertilizer (DAP Or TSP).

Fill the hole with this mixture.

Remove the polythene bag carefully to avoid harm on the roots and plant your seedling at the center of the hole

Spacing:

Spacing from plant to plant should be 3m and 2m between the rows.

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PAWPAW

Varieties available at the ATL nursery:

- S.P Sole
- Mountain

Soil and Climate Requirements:

Growing soils for pawpaw should be deep, well drained and with adequate moisture.

They require warm to hot climate for growth.

An altitude below 2100m above sea level is suitable for their growth.

Planting Procedure:

Dig holes with width, 45cm and depth, 45cm.

Mix 10kg of well decomposed manure with 60g of double super phosphate fertilizer and the topsoil.

Fill the hole with this mixture.

Spacing:

Pawpaw plants are sown at a spacing of 3mx3m.

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STRAWBERRY

Varieties available at the ATL nursery:

- California

Soil and Climate Requirements:

Strawberries require well-drained medium loam soil that is rich in organic matter.

Soil pH of 5.7-6.5 is recommended.

Planting Procedure:

Dig holes measuring 30cm by 30cm

Separate topsoil from the subsoil

Mix the topsoil thoroughly with fully decomposed manure

Spacing:

Spacing of 45cmx45cm should be maintained between the seedlings .

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TREE TOMATO

Varieties available at the ATL nursery:

- Red tamarillo
- Giant

Soil and Climate Requirements:

Tree tomatoes do best in well drained soils.

They grow well in altitudes between 1500m - 3000m and temperatures above 10°C.

Planting Procedure:

Dig square holes of width 45cm and depth, 45cm.

Separate the topsoil from the subsoil.

The topsoil should be thoroughly mixed with 1 debe of well-rotted manure and 60g of slow release manure.

Fill the hole with this mixture.

Spacing:

Spacing mostly depends on the region

They should be planted at a spacing of 3mx3m.

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TISSUE CULTURE BANANAS

Planting Tissue culture bananas using the correct guidelines is very important.

Varieties available at the ATL nursery:

- FHIA 17
- Grand naine
- Williams
- Jaffa
- Gall

Remember! Marketing starts at production!!

Spacing:

1. Medium height varieties
 - plant to plant, 9 feet
 - between rows 9 feet
2. Tall varieties
 - plant to plant 12 feet
 - between rows 12 feet

Planting pit preparations

- Should be square shaped 3 feet by 3 feet by 3feet deep
- Separate top soil (*one feet from the surface*) from the sub soil

Inputs

- Two wheel barrows or two debes of fully decomposed farm yard manure
- 200g of DAP 0:0:46 or NPK 17:17:17 inorganic fertilizer
- Nematicide (Mocap or bio nematon) rate, as recommended by the manufacturer

Planting procedure

- Mix the top soil with the farm yard manure, fertilizer and nematicide (in case you are using Mocap)
- Put the mixture back into the hole up to 2.0 feet
- Hold your tissue culture banana seedling carefully and cut the plastic bag ensuring that the root plug does not break
- Plant the tissue culture banana seedling firmly in the mixture at the centre of the hole
- Pour 40 litres of water to saturate the media at planting
- Apply a solution of nematicide, uniformly at the surface of the hole after planting (in case you are using bio nematon), dissolve the powder in clean water and sprinkle uniformly at the surface of the hole

Orchard Management:

- Irrigate the tissue culture banana with 20 to 40 litres of water in a week depending on evaporation rate of the region
- Place dry grass Mulching 6 inches away from the plant to reduce evaporation around the planting hole
- Intercrop your tissue culture banana orchard with leguminous crop like beans
- Keep the tissue culture banana orchard clean and free of weeds
- De-leafing-remove old diseased leaves using a clean knife
- Tissue culture banana field sucker management should be practiced ideally to avoid competition for nutrients and space
 - Ensure you grow 3 best tissue culture banana sword suckers at any one given time facing the eastern side, this would allow proper penetration of light within the tissue culture banana orchard throughout the day.
 - Practice destroying unwanted suckers using a clean de-suckering kit.

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