

Welcome to the Detailed Presentation on Macadamia Nut Lifecycle









MACADAMIA TREE :

 Macadamia nut is a large spreading evergreen tree that grows to between 10 and 15 m.



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Leaves are linear- obovate, 4-6" long, sparsely dentate with sharp teeth, and thick; gives the overall impression of a large holly leaf



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INFLORESCENCE

The inflorescence is a pendent raceme with 250-300 flowers.







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MACADAMIA NUT CLUSTER



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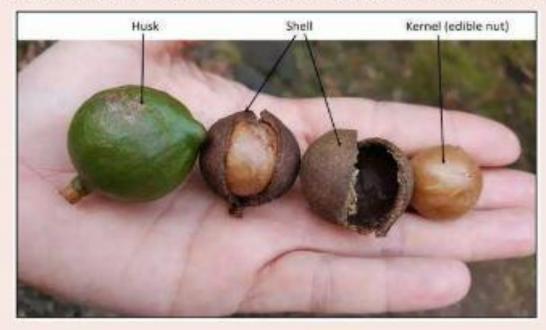
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MACADAMIA FRUIT

 The fruit has very hard seed coat that is enclosed in green fibrous husk that splits open when the nut matures.



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- Two species cultivated for their nuts:
 1.Macadamia integrifolia
 2.Macadamia tetraphylla
- Native to the east coast of Australia, from rain forest-like climates

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 Macadamia integrifolia Commonly known as the Queensland nut or Australian nut integrifolia, from the Latin integer = whole, and folia = leaf

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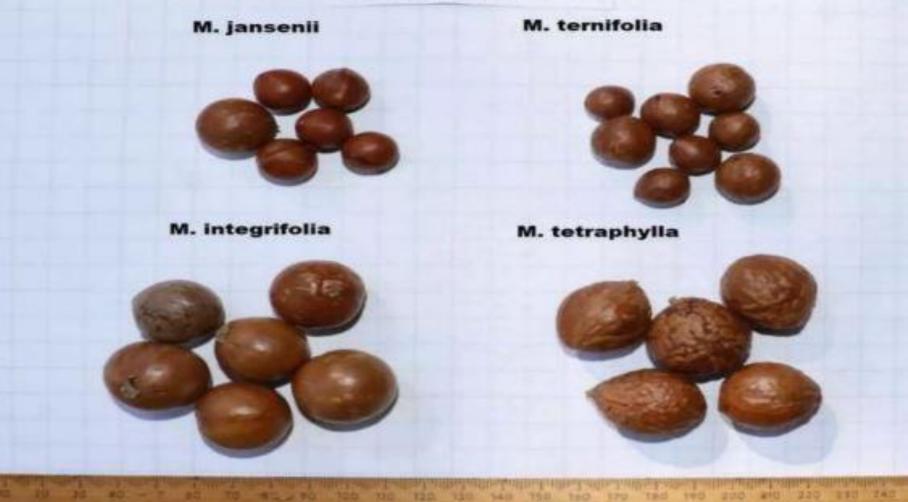
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	Plant part	Macadamia integrifolia	Macadamia tetraphylia
	Leaves	-3 leaves per node, colour of young leaves light green -leaves are 8-11 linches and have few spines	-3 or 4 leaves per node -colour of young shoots is reddish/pink or green -leaves are 20 inches long
	Flowers	-creamy white borne in clusters 6- 12 inches long	-cream or pink borne in clusters up to 15 inches long
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Scale: 10 x 10 mm



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VARIETIES Clones of M.integrifolia

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Macadamia integrifolia(MRG-25)



Macadamia integrifolia (MRG-25) upcoming variety for the main coffee zone

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KRG -15



Macadamia integrifolia (KRG-15) (Source: Lucy Gitonga)

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Climate

- It can be grown at an elevation of 1500-3500 feet MSL.
- Temperature ranges from 15-45 degree Celsius is ideal for plant growth
- At low temperature vegetative growth is seized and if the temp drops below 1.5 degree Celsius , the trees are killed by frost.
- Avoid planting in shady areas.

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Fig. 10. Macadamia nut seed-nuts ready for planting

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Step 1: soak seed in wet sand for one month



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Step 2: after one month seed will turn into seedling





Step 3: sow the seedling into soil



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Step 4: after four month seedling turns into sapling



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Step 6: This is one year old plant



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Step 7: This is macadamia tree with flower



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Step 8: This is 8-year old tree



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Cultivation

- Trees begin bearing in 4-5 years, and have productive lives of 75-100 yr
- Trees require spacing of 14 X 14 ft in the tropics to prevent crowding

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Pollination

- The pollen is compatible and can thus fertilise the ovules of same flower.
- But, pollen matures several days earlier than the time stigma is receptive, thus cross pollination is essential.
- Pollination is mostly carried out by insects and after the process, it takes 6 to 8 weeks for nuts to develop.
- Concentration of honeybee colonies during flowering would alleviate problem of poor fruit setting.

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Training and pruning

- The purpose of training is to develop strong and well balanced low branching trees with only one trunk i.e. Central leader system.
- The trees must be trained within three years of transplanting.
- Macadamia requires little pruning which involves removing broken, split or dead branches.

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Harvesting

Nuts harvested 7-8 months later (Jul-Nov). although some nuts mature more-or-less year round. Nuts are round, with kernels enclosed in hard shells, with shelling percentages of 40%.

 The yield ranges from 3-5kg of nuts for first harvest after 3 years .and 75-100 kg of nuts after 15 years.



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Post harvest handling

- DEHUSKING : It is the removal of the green cover of nuts which is usually slightly open when nuts drop.
- It should be done within 2 days after harvesting.



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 DRYING: In-shell nuts can be air-dried in a shade as direct sun causes nuts shells to crack.

The nuts should be dried to moisture level of 2%

•STORAGE : Dried nuts should be stored in a cool dry place free from odours as nut picks up smells from

surroundings.



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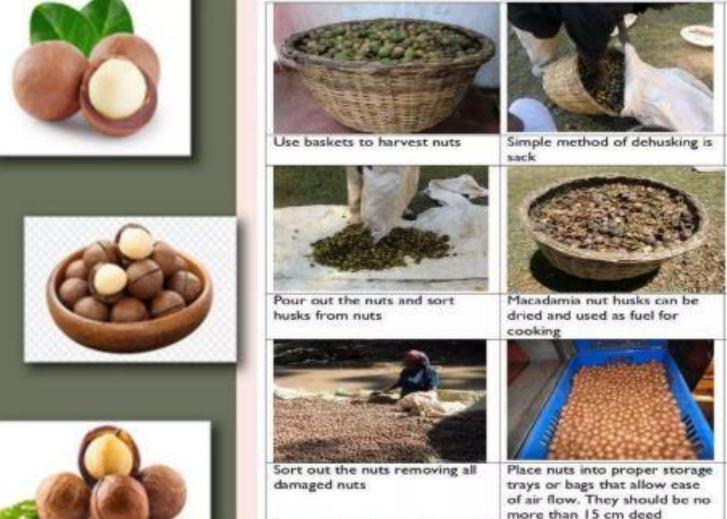
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Gently "pound" the with

a stick

Poor aeration as a result of improper storage results in rapid molding





THANK YOU

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