



National Agricultural Research Institute

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SIDE CLEFT GRAFTING TECHNIQUE ON MANGO



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LAL004E

July 2002

Steps to follow in Side Cleft Grafting on Mangoes.

Important Note!

To have high success rate in budding or grafting it is important to use the right tools and materials.

Tools to use.

Budding knife - to make an insertion on rootstock and sharpen budwood for grafting.



Secateur - to cut materials for grafting.



THE INSTITUTE

The National Agricultural Research Institute (NARI) was established by an Act of National Parliament of Papua New Guinea in July 1996 as a publicly funded, statutory research organisation, to conduct applied and development oriented research on food crops, alternative food and cash crops, livestock and resource management issues. Besides applied and adaptive research, NARI is responsible for providing authoritative technical, analytical and diagnostic services and up-to-date information to the entire agriculture sector in PNG. The major targets are the smallholder semi-commercial farmers in the country.

The mission of NARI is to contribute, through applied research and technical services, to the development of the agriculture sector and realization of the national goals by identifying, adapting and transferring agricultural technologies and information, so as to:

- Enhance the productivity, efficiency and sustainability of the smallholder agriculture, and
- Improve farmer income, food security and welfare of Papua New Guineans and the Nation.

This toktok was written by Kelly Ovia, NARI Dry Lowlands Programme in July 2002.

Wait 1-2 weeks, then cut the top of the rootstock off about 3-4cm from where grafting was done.



When your grafted plant is established (4 – 6 weeks) remove the budding tape.

Finally, keep your grafted plant in a cool place until ready for planting

Oil stone - to sharpen your budding knife.



Materials needed.

Budding tape - to tie budwood onto rootstock.



Plastic bag - to cover budwood.



Rootstock - growing plant raised from seed.



Cover budwood with plastic bag (ice block plastic) and tie firmly.



Budwood - tip of mature branch used for grafting.



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After 2-3 weeks when budwood starts to grow, cut off plastic bag covering the budwood.



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Push the budwood downward into the “V” cut on the rootstock.



Tie together with budding tape.



How to side cleft graft mangoes.

Prepare budwood on tree. Remove all leaves to encourage buds to swell.



After 1-2 weeks , when buds begin to swell, (ready for new leaves to grow) cut budwood to a length of 10 -15cm.

Then make a cut downward about 2-3cm on the side of rootstock stem to form a “V” shape.



Rootstock and Budwood should have the same thickness.

Sharpen the budwood end (2-3cm long) on both sides to form “V” shape.

