Nadorcott Mandarin Hybrid

**Origin**
Thought to be a Murcott x Clementine hybrid, although the exact origin is unknown. First discovered in Afourer, near Beni Mellal, Morocco in 1964 by Mr El Bachir Nadori (hence the cultivar name Nadorcott). It was introduced into South Africa in 1994.

**Ownership**
Patented - PBR ZA 20043008. Managed by Citrogold under the Clemengold trademark.

**General Description**
An attractive, well coloured, late maturing high quality mandarin prone to alternate bearing. Fruit is of medium size and seedless in solid plantings but sensitive to cross pollination.

**Tree Characteristics**
Trees are precocious and yield very well but can be prone to alternate bearing under certain conditions. The trees are vigorous with an upright growth habit and spreading under a heavy crop load. The leaves are fairly dark and branches have few to no thorns.

**Rootstock Options**
Suggested rootstocks are Carrizo/Troyer citrange. Incompatible on trifoliate rootstock. Low quality inducing rootstocks like Rough lemon and Volckameriana should be avoided.

**Fruit Characteristics**
Fruit size is medium, sometimes large, between 50 – 59 mm in diameter. The fruit is flat, with an uneven shape shiny with a large open core. Vigorous branches can have pebbly fruit. The rind develops an excellent orange/red colour, with a pink albedo. The fruit is easily peeled, sometimes oily and deep orange flesh colour. The quality is generally good with high sugars and moderate acid with a well balanced flavour, although young trees tend to have an acidic taste. Maturity in the cold production areas is from mid to late July and earlier in the warmer areas. It is sensitive to cross pollination and seedless in solid blocks. It is an effective pollinator, especially to Clementines.

**Production**
Yields of 40 to 50 tons per hectare are expected for mature orchards.

**General**
No crop manipulation considered necessary at present. Harvest, packing and shipping requirements are as for Clementines and other mandarin hybrids. Exposed fruit are subject to sunburn.

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Nadorcott fruit showing typical deep orange colour, rind texture, shape and seedlessness (solid planting).

Eight year old Nadorcott tree on Carrizo citrange showing excellent crop of medium large fruit and high growth vigour (height 3.5m).

Version 1: May 2012

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Status, Area Suitability and Availability
The Nadorcott is a recent introduction to South Africa with only a short history of production and exports to date. It currently constitutes approximately 8% of the hectarage of mandarins in South Africa. It appears to be suited to all but the hottest production areas. The Nadorcott is managed under the Premium Mandarin Group (PMG). Commercial quantities of propagation material are available from the Citrus Foundation Block.

Key References
The information in this fact sheet is based on evaluations by Citrus Research International.

| Internal Quality - Nadorcott on Carrizo citrange - Count 2 - Eastern Cape |
|-----------------------------|--------|--------|------|-------|-------|--------|
| Date            | Juice % | Brix   | Acid | Ratio | Seed | Colour |
| 10/07/2008      | 59.2    | 12.6   | 1.46 | 8.8   | 0.1   | 1-2    |
| 17/07/2008      | 57.8    | 14.7   | 1.39 | 10.6  | 0.8   | 1      |
| 29/07/2008      | 59.2    | 15.4   | 1.34 | 11.5  | 0.3   | 1      |

Evaluation Data
Note: These data are from 6 year old trees in the Cookhouse region of the East Cape Midlands for the 2008 season.

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<td>12.4</td>
<td>40.8</td>
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Distribution
Note: These data are from 4 year old trees in the Patensie region of the Gamtoos River Valley of the East Cape for the 2008 season.

Production
40 Kg per tree and 49 tons per hectare at 5.5 x 1.5 m spacing - planted in 2004.

Export

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Note: These data are from 15 year old trees in the Patensie region of the Gamtoos River Valley of the East Cape for the 2008 season.

Comments:
The Nadorcott is an excellent quality fruit that has become extremely popular in quality mandarin producing regions world wide. Its late maturity, very good eating quality and deep orange red external colour make it a popular option for growers and consumers. Over production with associated reduction in fruit size may require crop manipulation as production increases and markets demand less small fruit. It is a relatively new cultivar and is anticipated to become an important part of the mandarin and mandarin hybrid range. To date production has been controlled by a grower ‘club’ that decides on quantities of trees to be planted.

Disclaimer: Information contained in this publication is provided as general advice only. For application to specific circumstances, professional advice should be sought.