

Furr (Clemcott) Mandarin Hybrid

Origin

A Clementine mandarin X Murcott hybrid developed by J. R. Furr of the U.S. Department of Agriculture at Indio, California and released circa 1953. This cultivar found its way to Florida where it was irradiated to reduce seeds and canker sensitivity. Seed counts were slightly reduced, but its canker tolerance was enhanced substantially. The selection was then included in trials in Florida and has since found its way to a number of citrus producing countries around the world. It was imported from Florida to South Africa during the 1990s.

Ownership

Open.

General Description

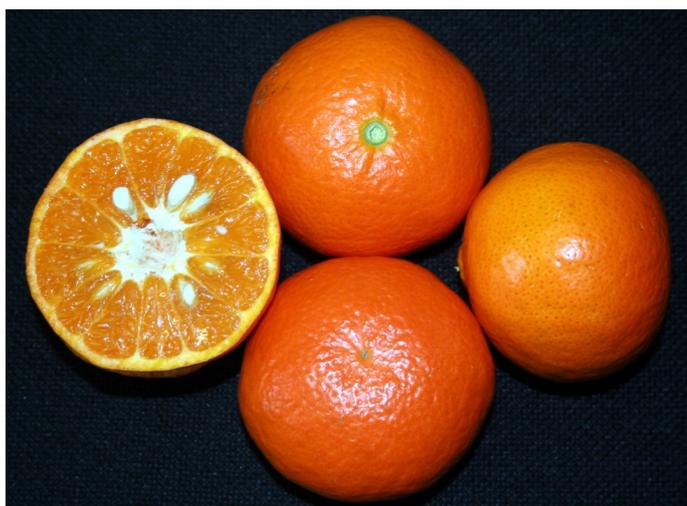
A mid to late maturing Clementine mandarin hybrid. The fruit is high quality, maturing in late June to early July in the Sundays River Valley region of the Eastern Cape. It peels easily and due to its seediness is easy to produce. Orchards observed in South Africa and South America show this cultivar to be a stable cultivar producing good yields of very good quality, medium large well coloured fruit.

Tree Characteristics

The tree is fairly vigorous with an open growth habit. The leaves are larger than Clementine and more Murcott like in shape and colour. Yields are good and uniformly spread through the fairly open, spreading tree.

Rootstock Options

Suggested rootstocks are Carrizo/Troyer citrange. Rootstocks inducing small fruit size, lower acid and later colour are not advised.



Furr fruit showing typical shape, colour, rind texture, rind thickness and seediness.

Fruit Characteristics

Fruit size is medium to large and can be too large if over irrigated. The fruit is flattish-round with a smooth rind texture. The fruit is firm and has a medium rind that makes peeling easy. The rind develops a deep orange red colour resulting in an attractive fruit. Fruit quality is very good, with high sugars and good acid levels that are retained and the fruit can hang well on the tree. Maturity in the cold production areas is around late June to early July. The fruit is self compatible and sets medium seeded fruit in solid block plantings. The fruit is sought after by the Far Eastern markets due to its size and firmness and the seed counts have not been a problem to date.

Production

Yields are good, although figures are still to be included.

General

Light pruning may be necessary to maintain the tree's open structure if it becomes too dense for any reason. Harvest, packing and shipping requirements are as for other mandarin hybrids.



Six year old Furr tree on Carrizo citrange showing typical open growth habit and yield (tree height 2.4m).

Updated: November 2021

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Status, Area Suitability and Availability

This selection has been produced successfully in limited quantities in the Sundays River Valley area, a cold citrus production area of South Africa. It is gaining popularity due to successes in the Eastern markets. 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.

Evaluation Data

Internal Quality - Clemcott on Carrizo citrange - Count 1XX - Sundays River Valley						
Date	Juice %	Brix	Acid	Ratio	Seed	Colour
15/06/2011	57.8	15.0	1.47	10.2	7.4	1
22/06/2011	55.1	16.0	1.41	11.3	10.3	1
28/06/2011	57.5	15.6	1.36	11.5	5.5	1

Count Distribution

Count	1XXX	1XX	1X	1	2
%	7.7	37.5	39.5	11.6	3.7

Production

15.5 Kg per tree and 8 tons per hectare for 4 year old trees. Spacing not specified.

Export %

Grade	Percentage
1	82.9
2	17.1
3	
4	

Comments

The Clemcott has become of value with the expanding eastern markets where fruit size, firmness, colour and flavour are important and seeds not the problem they are in western markets.