



Kirkwood Red navel

- The Kirkwood Red navel is owned by the Johan Potgieter a farmer in Kirkwood, Eastern Cape region of South Africa.
- The Kirkwood Red navel is protected by the Plant Breeders' Rights Act, of South Africa ,1976 (as amended), and unlawful propagation is not permitted (PBR No. PT 4924).
- Kirkwood Red navel will be marketed under a trade name to ensure that fruit meets with exceptional fruit quality specifications.

Origin and use

Kirkwood Red was a chance mutation that developed from a Palmer navel tree planted on Mr. Potgieter's farm.

Kirkwood Red is a novel, high-quality citrus variety that can be differentiated by the trade and identified by the consumer due to its external blush, dark red internal pigment and exceptional taste. In terms of consumption, Kirkwood Red navel has excellent potential for the differentiation of pigmented fruit with higher anti oxidant levels and to add colour to fruit salads, juice etc.

Fruit Characteristics

- The Fruit size is similar to that of Palmer navel under similar crop load conditions.
- Time of maturity is similar to that of Washington navel. The variety is slightly later maturing than Cara Cara navel.
- Kirkwood Red fruit have relatively high juice content and a small closed end navel.
- The fruit has a unique flavour which clearly differentiates it from other red pigmented navels

Tree characteristics

The tree is compact, precocious and highly productive and has a similar growth habit to that of Washington navel.

The tree is unique in that the vascular bundles in the leaf and fruit stem are clearly red in colour.

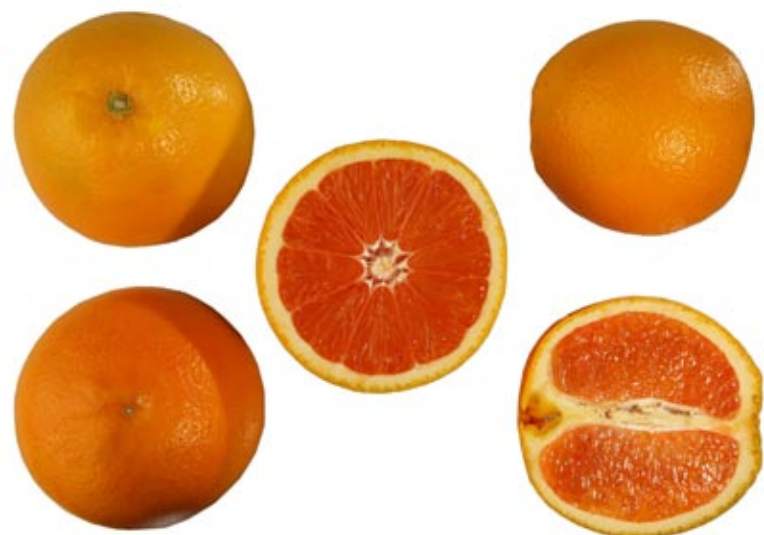
Kirkwood Red navel trees are compatible with most trifoliolate hybrid rootstocks, such as the citranges (Troyer and Carrizo) and Swingle citrumelo. The compatibility on C35 is unknown.

Climate requirements

Climatic suitability of Kirkwood Red navels is for all navel production areas in South Africa.

The variety performs well in inland navel production areas.

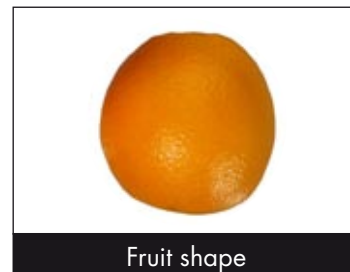
The internal Licopene colour pigment will be accentuated in hotter navel production areas.



Tree with fruit



Leaf shape



Fruit shape

Kirkwood Red navel – Technical information

Hybrid	Branch mutation of Palmer navel tree
Origin	Kirkwood, Eastern Cape, South Africa
Ownership	Mr. A. Potgieter
Selected	1992
PBR registration	Patent Pending

Internal quality tests
Brix° was tested at 10.5% in mid April. Internal quality expected to be higher than Cara Cara.

Optimum ripening date	Similar to Palmer
Alternate bearing or other problems	No problems noted to date
Rootstocks used in evaluation	Rough Lemon

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Tree characteristics	Compact compared to Cara Cara and precocious in bearing. Red pigmentation also develops in bark and twigs.
Fruit size	Large to medium
Fruit shape	Round to slightly oval with small navel-end.
External appearance	Deep orange to light red colour
Internal appearance	Pigmentation expected to be a T1 compare to Grapefruit colour Plate 34a. Dark red pigment with thin rinds
Peelability	Good peelability
Seed	None
Flavour	Exceptional flavour due to high internal quality and pigment.

