



Witkrans late maturing navel

- The Witkrans late navel is owned by Mr. Johan-Chris Grobler of the Witkrans nursery near Rustenburg in the North-West Province, South Africa.
- The Witkrans late navel is protected by the Plant Breeders' Right in terms of the Plant Breeders' Rights Act, No. 15 of 1976 (as revised), which prohibits illegal propagation (PTR No. ZA 20053324).
- The Witkrans late navel will be marketed along with other late navels and not under a specific marketing name.

Origin and use

The origin of the Witkrans is a mutation on a Palmer navel tree in the Boshhoek area on the farm of Mr. J.C. Grobler.

The Witkrans late navel was chosen exclusively for its late ripening time, good fruit size, good internal fruit quality, high fruit production, firm fruit and smooth peel.

Fruit Characteristics

The fruit size is medium to large (82 mm to 68 mm in diameter) and the production of Witkrans is comparable to that of the Royal Late navel.

The ripening time is the same as the Royal Late navel or up to one week later. The fruit ripens at least 2–3 weeks later than Lane Late navel.

The fruit shape is usually round to oval, with a smooth peel and a closed navel end. The fruit is juicy with good internal quality and soft fibre.

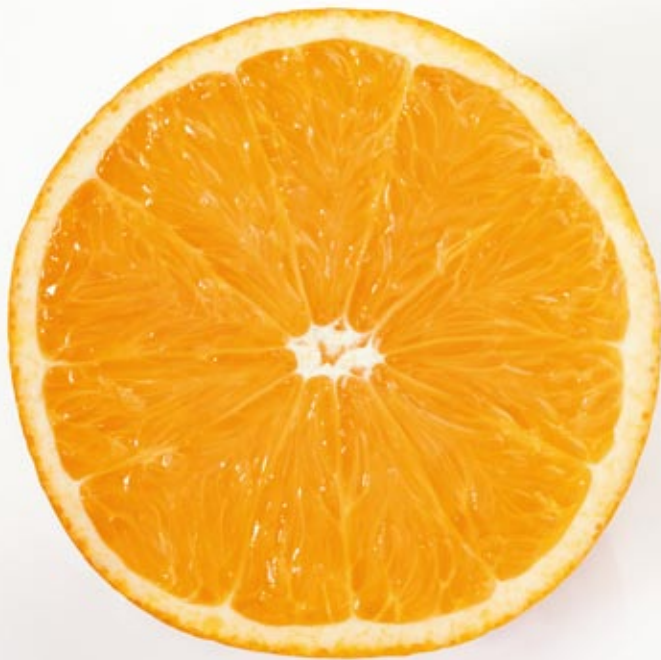
Tree characteristics

The tree is more compact than the Palmer, Lane Late and even Royal Late. The trees start bearing fruit early and are prone to high production.

The Witkrans late navel is compatible with various rootstocks, trifoliolate rootstocks like Troyer and Carrizo and Swingle Citrumelo. It is also compatible with rough lemon and Volkameriana.

Climate requirements

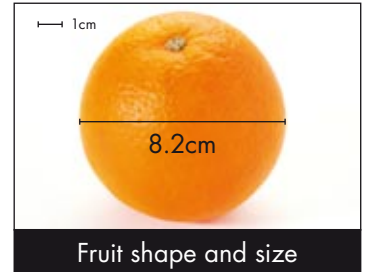
The Witkrans late navel is a very versatile navel and is well suited to all of the navel production areas in South Africa.



Tree with fruit



Leaf shape



Fruit shape and size

Witkrans late maturing navel – Technical information

Hybrid	Natural mutation derived from Palmer navel tree
Origin	Boshoek, North West Province, South Africa
Ownership	Mr. J.C. Grobler
Selected	1995
PBR registration	SAPT 3184

Internal quality tests					
	Test date	Juice %	Brix°	T.Acid %	Brix /TA Ratio
Rustenburg	13/06/01	54.2	12.45	0.75	16.60
ARC-Addo	22/07/05	56.0	10.80	0.74	14.60
ARC-Addo	08/08/06	50.0	12.00	0.83	14.50

Tree characteristics	Similar to Palmer navel, smaller more compact tree
Fruit size	Large to Medium (82mm – 68mm)
Fruit shape	Round to slightly oval, especially when trees are still young.
External appearance	Rinds are smooth to slightly pebbly with deep Orange color. Navel-end is closed and small internally.
Internal appearance	Orange colour, soft fibre
Peelability	Moderate to good, slightly oily
Seed	None
Flavour	Juicy content is high, a deep orange color and a rich flavour.

Optimum ripening date	Eastern Cape: end July to end August Northern region: mid June to end July
Alternate bearing or other problems	None noted so far
Rootstocks used in evaluation	Rough Lemon Swingle citrumelo

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