



Jackson LS Sweet Sunrise™ grapefruit

- The Jackson Low Seeded (LS) grapefruit was discovered by Mr Ferdi Esselen on a farm in the Karino area near Nelspruit in the Mpumalanga Province in South Africa.
- The Jackson LS is protected by Plant Breeder's Rights as per the Plant Breeder's Right Act No 15 of 1976 (as amended), which prohibits illegal propagation (PBR No. PT 3736).
- Jackson LS will be planted and marketed within the Premium Grapefruit Cooperative within limited hectareage. Processed product will be marketed as a segmented product under the Sweet Sunrise™ name only.

Origin and use

The origin of the cultivar is a branch mutation on a Jackson Grapefruit tree in the Karino area near Nelspruit. The Jackson LS has been chosen exclusively for its very high internal quality, unique taste, low naringine levels and excellent external colour. The ripening time is later than Marsh Pomelo.

Fruit Characteristics

- The fruit size is mainly medium to small but tends to produce larger fruit if thinning actions are applied.
- The ripening time is approximately two to three weeks later than Marsh Grapefruit.
- Fruit shape is mostly round with a small shoulder at the calyx end, fruit have low seed content.
- Skin is smooth with a white to light brown internal colour.
- Fruit is juicy with a soft vesicle and good internal fruit quality.
- Fruit can be peeled like a navel and eaten without any naringin taste.
- The fruit has an unusual and refreshing fruit-punch-like flavour

Tree characteristics

Tree characteristics are unique with a more compact tree than Star Ruby and with smaller leaves. Production is excellent with fruit characteristically hanging in a cluster.

Jackson LS is compatible with various trifoliolate rootstocks like Troyer and Carrizo citrange and Swingle citrumelo.

Climate requirements

The Jackson LS is suitable for application in all of the grapefruit production areas in South Africa.

It is highly adapted to the warmest parts where yield could be a problem on other grapefruit.



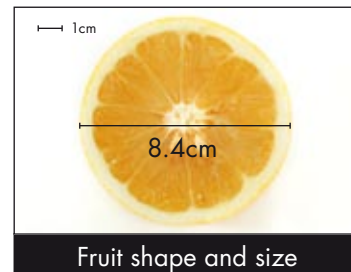
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Tree with fruit



Leaf shape



Fruit shape and size

Jackson LS Sweet Sunrise™ – Technical information

Hybrid	A limb sport of Triumph grapefruit
Origin	Karino, Mpumalanga, Republic of South Africa
Ownership	Leon Esselen, Esselen Nursery, Malelane
Selected	Current selection was selected in 1999 season
PBR registration	SA PT3736

Internal quality tests (Malelane)				
Test date	Juice %	Brix°	T.Acid %	Brix / TA Ratio
31/05/05	58.0	12.90	0.88	14.70

Optimum ripening date	Hot, humid area (Malelane): mid May to mid June
Alternate bearing or other problems	High quality inducing rootstock are recommended. Granulation on Rough Lemon rootstock due to inferior internal quality
Rootstocks used in evaluation	Swingle citrumello, Carrizo citrange

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Tree characteristics	Compared to Star Ruby grapefruit, it has smaller leaves and trees are more compact and can therefore be spaced closer together.
Fruit size	Medium to large (92mm – 84mm)
Fruit shape	Round to slight neck
External appearance	Deep yellow to gold external colour.
Internal appearance	White to light brown with even segments.
Peelability	Peelability is good as grapefruit, slight albedo adherence
Seed	Virtually seedless in solid blocks.
Flavour	Boasts a unique flavour, with a dash of lime, high sugars and low naringin levels. Segmented fruit has no bitter taste.

