



Jackson LS grapefruit (Sweet Sunrise®)

- The Jackson Low Seeded (LS) grapefruit was discovered on a farm in the Karino area near Nelspruit in the Mpumalanga Province of 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. ZA 20104318).
- Jackson LS will be planted and marketed within the Premium Grapefruit Cooperative with limited hectares. 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 suspected Triumph grapefruit tree in the Karino area near Nelspruit. The Jackson LS has been chosen exclusively for its very high internal quality, unique taste, low naringin levels and excellent external colour. The ripening time is later than Marsh grapefruit.

Fruit Characteristics

- The fruit size is largely 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.
- Skin is smooth and ripens to a deep yellow colour.
- Fruit is juicy with a soft vesicle and has good internal fruit quality with a refreshing fruit-punch like flavour.
- Fruit peels easily (like a navel) and can be eaten per segment without any (or very low) naringin taste.
- The fruit are low seeded.

Tree characteristics

Tree characteristics are unique, having a more compact tree shape compared to Star Ruby and with smaller leaves. Production is excellent with fruit characteristically hanging in clusters.

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

Climate requirements

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

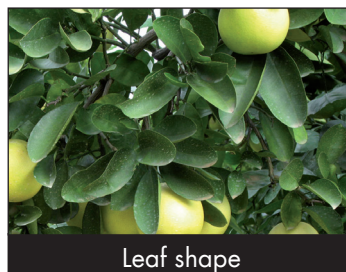
It is highly adapted to the warm production regions.



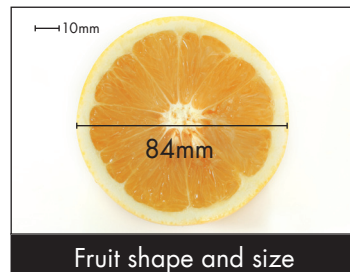
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Tree with fruit



Leaf shape



Fruit shape and size

Jackson LS grapefruit (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	1999
PBR registration	ZA20104318
Status	Experimental

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 June
Alternate bearing or other problems	High quality inducing rootstocks are recommended. Granulation occurs on Rough lemon rootstock due to inferior internal quality
Rootstocks used in evaluation	Swingle citrumelo, 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 (84mm – 92mm)
Fruit shape	Round to slight neck
External appearance	Deep yellow to gold external colour.
Internal appearance	White to light brown with even segments.
Peelability	Fairly easy (as 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.

