

ACHIEVING BEAUTIFUL AND DELICIOUS TANGELO

RLF's Youran® Series of Foliar Crop Nutrition Program is the Key

Authorised for release by:

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Overview

Since the Qin and Han Dynasties of 2,000 years ago, local farmers at Jianyang, Fujian Province have been growing citrus. Its superior geographical environment and its 'just right' natural ecological environment with unique air temperature, light, soil and clean spring water is perfect for nourishing the fruit.

In the 1950s, Jianyang Agricultural Bureau introduced a variety of the mandarin orange from abroad. After more than half a century of experiments, screening and scientific cultivation, scientists and farmers finally bred a new citrus variety, the Jianyang Tangelo, which combines the sweet flavour of citrus and the fragrance of pomelo.



Tangelo grower Mr Zheng owns several hundred acres of tangelo base at Jianyang.

In the recent past few years, the burned and rough fruit skin seriously affected his income, so Mr Zheng urgently sought a method to improve quality, gain more profit and establish a good brand.

Jianyang Tangelo is easy to flower, so lush flowers and a long fruiting period requires a large amount of nutrition consumption. Therefore, mastering fertilisation technology and promoting the nutrient accumulation of tree body is the basis of cultivation. Meanwhile, tangelo is more sensitive to magnesium, zinc and boron, but especially magnesium. According to the growth characteristics of citrus fruit, the RLF Tech Team conducted a whole-course demonstration of the Youran® series of products in Mr Zheng's citrus fruit base.

Youran® Better Crops Scheme

Location	Chongluo, Jianyang District, Jian 'ou City, Fujian Province		
Grower	Mr Zheng		
Products Applied	Youran® Series		
Nutrition Program Applied	Period	Using Date	Using Products and Method
	Young fruit period	15th May 2020	Broadacre Plus foliar at 1:1000 ratio
		4th June 2020	Broadacre Plus + Caltro foliar at 1:1000 ratio
	Developing fruit period	14th July 2020	Broadacre Plus + Caltro foliar at 1:1000 ratio
		10th August 2020	Broadacre Plus + Caltro foliar at 1:1000 ratio
	Fruit ripe period	8th September 2020	Broadacre Plus foliar at 1:1000 ratio
		11th October 2020	Boron Plus + Potassium Boost foliar at 1:1000 ratio

The Results and Comparisons

Tangelo matures from late November to early December.

During the RLF Tech Team's return visit to the base to observe the results of the crop nutrition program it found overall that the citrus fruit in the Control area had a general gloss and rough skin. However, the peel of the RLF-treated area had better lustre with smooth peel and the colouring being earlier and more uniform.



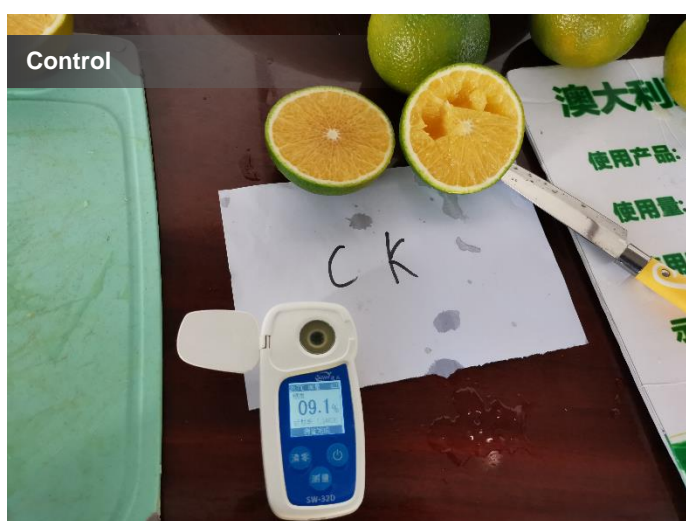
Sugar Contrast

The thickness of the peel of the RLF-treated fruit was **4.75mm**.

The thickness of the peel of the Control fruit was **5.35mm**.

The sugar content of the RLF-treated fruit was **10.3**, with that of the Control fruit being **9.1**.

This shows that the application of a carefully considered RLF crop nutrition program can improve the photosynthetic efficiency of a citrus crop and promote the accumulation and synthesis of sugar.



Yield Contrast

- Some of the fruits were picked and sold on the same day, and according to the standard fruit volume of a box of 5kg, 19 fruits from the **RLF-treated** area could meet this requirement, with the average single fruit weight being **263g**.
- Whilst the same standard box from the **Control** area, 21 fruits were needed, with the average single fruit weight being **238g**.

This showed that the average single fruit weight difference between the two areas was approx. 25g.

This roughly translates for a tree having 80 fruits – if each fruit gained a weight of 25g – that one tree could increase its yield by 2,000g. On average, each mu carries about 30 fruit trees, so the increased output of each mu could be 60kg, which in turn could increase the income for the grower of approx. 600 yuan per mu.

	Average fruit weight(g)	Average fruit of each tree (number/tree)	Average trees of each Mu (number/mu)	Price (Yuan/kg)	Yield each Mu (Yuan)	Increased Income (Yuan)
Control	238	80	30	10	5712	
RLF-treated	263	80	30	10	6312	600

(According to the price given on that day)

By using the RLF crop nutrition program the skin gloss of citrus fruit is good, and the sugar content is much improved.

For the fruit quality and the input-output ratio, Mr Zheng expressed his satisfaction with the demonstrated effects of this program. And, he has advised that the entire garden will benefit from this fertiliser management scheme for next year's crop.

This is how beautiful and delicious tangelos can be grown!



As the scale of planting has increased, more citrus growers have realised that fruit quality is proportional to yield and income.

By focusing on the science of crop nutrition, RLF provides precise fertiliser management programs for growers and helps growers to transition to a high-quality and brand style of produce. Through scientific-based fertilisation management, growers can address problems such as sun burn and rough peel, and improve the fruit's commodity. This ultimately leads to the continuous improvement of the planting base's economic and brand identity benefits.



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