MODERN FERTILISER PRACTICE FOR FRUIT CROPS

Red Date, Grape and Nectarine Trials in the Xinjiang Uygur Autonomous Region

Authorised for release by :

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Some fruits are only suitable for cultivation in Xinjiang, (or perhaps also in a few further limited arid growing areas across China). Crops such as almond, pistachio, Korla pear and guava thrive in these conditions, and Xinjiang also produces a very high percentage of highly sought after specialty fruits such as Chinese red dates, table grapes and walnuts.

The RLF Team recently conducted a series of experimental trials to showcase the excellent effects of RLF crop nutrition products on some of these specialty crops.

Case-sharing Red Date

Generally in Xinjiang the date tree has late germination and early falling of leaves.

During its annual growth cycle, a series of distinct growth stages such as root growth, bud germination, shoot growth, flower bud differentiation, flowering and reproductive growth fruiting and young fruit development occur and can be observed quite clearly.

The competition of nutrients amongst the plant organs at each of these stages is intense. The vegetative growth and flower bud differentiation in spring when the foliage is growing quickly and the massive nutrient consumption between budding and flowering makes the competition become more fierce. This can often be the cause of a low fruit setting rate at the flowering stage.

Excellent young fruit development achieved with RLF products

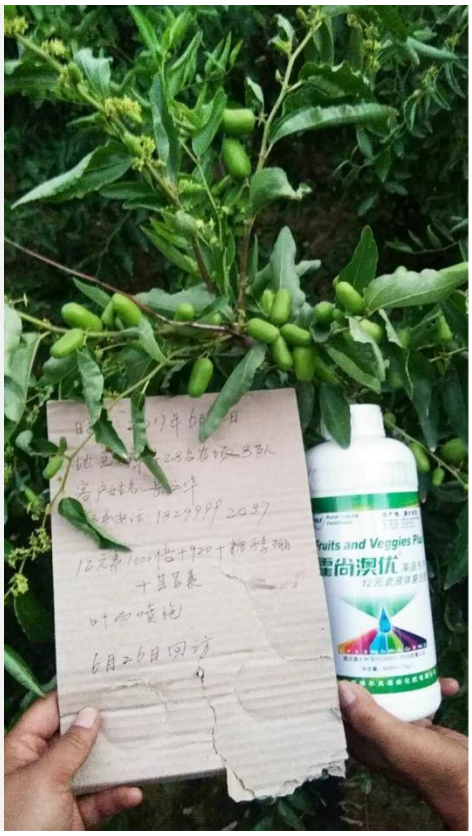
The RLF modern fertiliser practice of using specialty crop nutrition products **<u>at the time the plant requires it</u>** gave an excellent response.

The red date crop nutrition program was as follows :

Trial Date	May, 2017
Trial Location	Kashgar, Aksu, Hotan, Korla
Trial Fertiliser Program	**Before blooming, flourishing florescence** Foliar spray with RLF **Fruits & Veggies Plus** Ultra Foliar at 1,000 times dilution AND **Boron Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days. **Young fruit period, fruit enlarging stage** Foliar spray with RLF **Fruits & Veggies Plus** Ultra Foliar at 1,000 times dilution AND **Calcium Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days. **Fruit coloring and ripening period** Foliar spray with RLF **Potassium Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days.

The Excellent Results Observed by the Grower

"RLF products promoted the root growth and extension of the date trees, improved root nutrient absorption capacity that helped lay a good foundation for improving the fruit setting rate in the flowering phase and the development of the young fruit. At the same time, it accelerated flower bud differentiation and the growth of the trees. I saw enhanced vigour, better lobular control, and a reduction in the number of yellow and speckled leaves. Gibberellin dosage could be reduced by half. The biological balance of the date trees was better and there was less fallen fruit. The yield was excellent and there was much less deformed and dead fruit. There was very quick growth of healthy young fruit".



The red date grower is well satisfied with the RLF products

Case-sharing Grape Harvest

Trial Date	May, 2017
Trial Location	Wujiaqu, Kuqa, Qingshui River in Yili, and Korla
Trial Fertiliser Program	**Leaf expansion period (before falling flowers)** Foliar spray with RLF **Fruits & Veggies Plus** Ultra Foliar at 1,000 times dilution AND **Boron Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days. **Young fruit period, fruit enlarging stage** Foliar spray with RLF **Fruits & Veggies Plus** Ultra Foliar at 1,000 times dilution AND **Calcium Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days. **Fruit coloring and ripening period** Foliar spray with RLF **Potassium Plus** Foliar at 2,500 times dilution on two occasions at an interval of 10 days.

The Excellent Results Observed by the Grower

- **After germination, before blooming:** The main purpose was achieved to promote the growth of leaves and new shoots. At the same time, it had the effect of promoting shoots and leaf retention.
- **Seven days before blooming:** The fruit setting rate was noticeably improved.
- **Flowering and fruiting stage:** The flowering and fruiting of the grapes accelerated.

Grapes treated with RLF products

- **After fruiting, before fallen leaves:** Fruit growth and development was noticeably better with increased fruit colouration and increased sugar content. Clearly, photosynthesis was promoted with flower bud differentiation, improved resilience of the plant, healthier fruit development with much reduced cracking and overall sugar content qualities.

- **Generally:** Because of the greater strength of the root system the overall health of the plant was improved and as such it had greater ability to repair damage, relieve phytotoxicity, replenish energy, stabilise flower and fruit, promote the physiological enhancement of the fruit, increase fruit firmness, promote colouration, increase glossiness and avoid fruit malformation. Storage and handling qualities were also improved.

Case-sharing Nectarine

Trial Date	From June 2017 to July 2017
Trial Location	Mountain of Flowers and Fruit in 143 group of the Shihezi Area
Trial Fertiliser Program	Foliar spray of RLF **Fruits & Veggies Plus** Ultra Foliar on three occasions during the growing period, with applications as recommended on the product label.

The nectarine treated with RLF product had glossy, dark green leaves – this was its early feature. Later, the fruit growers gave positive feedback on the results and expressed deep recognition and acknowledgment for RLF products.

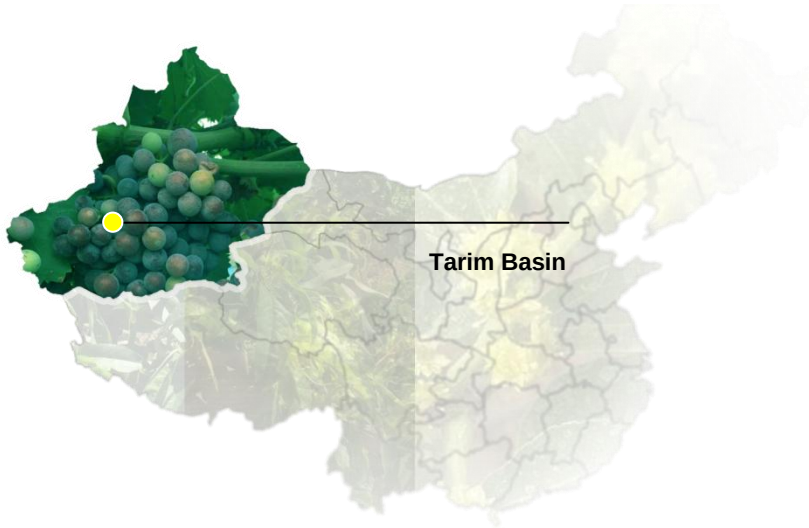
Conclusion

The area dedicated to the growing of fruit crops in the Tarim Basin is about 80% of the total area.

The Tarim Basin is the main production zone for red dates, walnut, apricot, pear, guava, apple, and almond.

The Turpan Hami Basin mainly features grapes and Hami dates.

The Ili River Valley and Northern slope of the Tianshan Mountains mainly grows apples, grapes and small berries.



RLF has been working with farmers in China for many years now and is dedicated to creating greater value as it too shares the innovative wisdom it has gathered as a company over the past 26 years.

Some of the satisfied Xinjiang farmers sharing their success after using RLF products as part of these experimental trials.