

A PLAN TO INCREASE POTATO PRODUCTION BY 2020

UAV Spraying with Broadacre Plus Ultra Foliar Contributes to Goal



By:

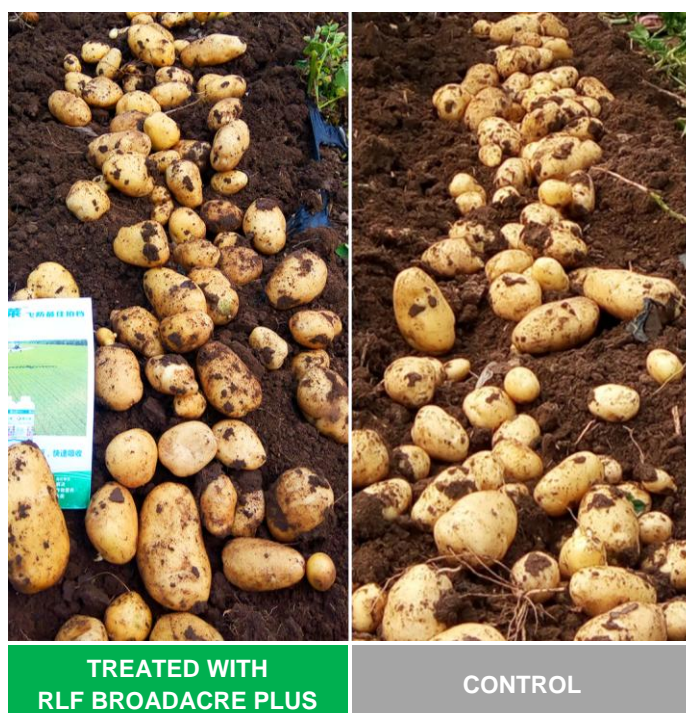
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The Way of the Future for the Potato Harvest

There is a plan to increase the production of potatoes so that they can be more readily incorporated into the China food supply as a staple food.

The plan is to lift this tuber crop from its current non-staple food status, to that of being the fourth most important staple food by 2020. Potatoes are increasingly used for steamed breads, noodles and as a general purpose flour product. And key to the plan is an increase in both production and quality of the crop.

The Comparison between POTATO SHAPE




The Comparison between POTATO PLANTS



A random sampling method was adopted for this experiment.

The trial test team chose three points in the trial field and three points in the control field respectively. They then averaged the two samples to get a more reliable figure and converted the result to output per Mu.

18.6% 
Increase in Yield
with Broadacre Plus

The Measurement Results

The data and calculations for the Test Trial are as follows (the unit measurement is kg):

	Point 1	Point 2	Point 3	Average	Output per Mu
RLF treated Field	53.9	49.7	52.1	51.9	6294
Control Field	44.2	46.5	40.8	43.8	5309
Increased yield				8.1	985 (18.6%)

The benefit analysis based on the potato purchase price of 1.06 yuan (AU\$0.20) per kg.

	Output per Mu	Gross income		Cost		Net income	
		Yuan	\$AUD	Yuan	\$AUD	Yuan	\$AUD
RLF treated Field	6294	6672	1245	15	3	6657	1242
Control Field	5309	5628	1050	0	0	5628	1050
Increased yield	985	1044	195	15	3	1029	192

Comment : The measurement results show, that compared to the control field, the average yield per Mu of the RLF trial field is 985 kilograms higher and the net income is higher by 1029 yuan (AU\$192).

The effect on production and income increase is very significant. In addition to these simple calculations is the increased quality of the potato crop and the growers were happy to say that the potatoes treated with RLF **Broadacre Plus** Ultra Foliar achieved a very good price.

Improving Crop Health and Supporting the Potato Plan

In order to verify the results of **Broadacre Plus** Ultra Foliar on the potatoes, the Director of RLF's Market Development, Qiu Mengbin, conducted several agricultural airplane control tests (aerial spraying with UAV) on 6 Mu (1 acre) of potato fields in Changyi City, Shandong Province from the beginning of May 2017.

The potato crop was sown on 2nd March 2017 with row spacing set at approximately 0.66m and plant spacing at approximately 0.33m. The seedlings had all emerged neatly by 20th April 2017.

A six rotor plant protection unmanned aerial vehicle (UAV) with a load capacity of 10 litres was chosen to deliver the foliar spray. The application rate was 1.5 litres per Mu at 30 times dilution. The flying height was 1.5m, and the flight speed set at between 3m – 4m per second.



The scene of UAV spraying

The Fertiliser Program

The trial field added RLF **Broadacre Plus** Ultra Foliar with the normal fertiliser routine of crop protection chemicals. The control field used only the crop protection chemicals.

First application was a single crop protection product at rosette stage on 7th May 2017.

Second application was crop protection combined with 33ml **Broadacre Plus** Ultra Foliar at flowering stage on 16th May 2017.

Third application was crop protection combined with 33ml **Broadacre Plus** Ultra Foliar during young fruit period on 25th May 2017.

Fourth application was crop protection plus crop nutrition with **Broadacre Plus** Ultra Foliar during the expanding period on 6th June 2017.

Crop Growth Comparison



AFTER FIRST application of RLF **Broadacre Plus**.
Compared with control, the trial field flowers appeared three days earlier



AFTER SECOND application of RLF **Broadacre Plus**.



The leaves in the control field are turning yellow, whilst the leaves in the RLF treated trial field are still a dark green in colour.



AFTER THIRD application of RLF Broadacre Plus.

The RLF Treated field has features of thickened and darkened leaves, no premature senility and good disease resistance.

To summarise, the potatoes treated with RLF **Broadacre Plus** Ultra Foliar demonstrated much more vigorous growth. In addition, other outstanding characteristics were :

- the flowers appeared up to three days earlier
- the leaves were thicker and a darker green colour
- the disease resistance was better, with much reduced rate of late blight detected (measured at 7-8%)

In contrast, the control field showed weaker general growth. Leaves were thin and yellowish and showed signs of premature aging. The diseased plant rate of late blight was measured at more than 15%.

About Broadacre Plus

Broadacre Plus Ultra Foliar has 12 essential nutrients.

They are taken up by the leaf through the cell walls for the plant's immediate use, and is in a High-analysis Broad-spectrum solution. It is suitable for a wide variety of crops and has been specially manufactured and packaged as a very beneficial crop nutrition product for use in aerial spraying.

Broadacre Plus Ultra Foliar has many features and delivers many benefits. They include:

- ✓ increased growth
- ✓ improved yield qualities
- ✓ soil nutrient variability and deficiency guarded against
- ✓ safe transfer of the 12 nutrients as they are all optimally balanced
- ✓ greater size and volume of the root system
- ✓ more organic matter returned to the soil
- ✓ enhanced natural soil fertility
- ✓ improved ability to handle adverse climate conditions
- ✓ strength to resist disease and to buffer the effects of crop protection chemicals
- ✓ cost effectiveness
- ✓ improved uptake of soil-based fertilisers

1 specific product with 12 essential nutrients

N Nitrogen	P Phosphorus	K Potassium	S Sulphur	Mg Magnesium	B Boron
Cu Copper	Fe Iron	Mn Manganese	Mo Molybdenum	Zn Zinc	Co Cobalt



Conclusion

Compared with wheat, corn and rice, the flour produced from potato has a longer storage time and can be stored for more than 15 years at normal temperature. Many experts believe that with the rapid growth of the world's population, potatoes can play an important role in ensuring future food demand is better met.

By sharing the story of these successful application effects of RLF product **Broadacre Plus** Ultra Foliar on potatoes, the RLF team is once again showing its commitment and dedication to bringing modern fertiliser practices within the reach of all food growers. RLF prides itself on the part that it plays as it works side by side farmers to deliver better on-farm practices, increased farmer profits and healthier foods for the consumer.



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