

# Enhance Max™ + UAN, Tested Against Just UAN

*..Will never again apply UAN without Enhance Max™.....*



## CASE STUDY

Reseller	CRT
Agronomist	Private
Location	NSW
Crop	Wheat

### Demonstration Purpose

The grower and reseller undertook a demonstration site to look at ways to reduce input costs into the growers cropping rotations. They continually looked at innovative practices and products to improve overall farm efficiencies. Nitrogen use efficiency was an important target in this process due to its overall costs.

This demonstration purpose was to investigate the effect of applying UAN alone (standard practice) in comparison to **UAN** at a reduced rate of 25% less than standard practice but with the addition of **Bio-Liquid Nitrogen Stabiliser - Enhance Max™** whilst still maintaining yield and not mining soil nitrogen.

### Demonstration Set Up

The goal was a two season test program over a 3 year period with the same sections of the field treated. The area chosen was an average representation of the field and was believed to give an unbiased and true result. The **UAN + Enhance Max™** was applied to the selected area and the UAN was applied to the remaining area of the field. The crop rotation was a bread wheat (trial), chick pea (no trial), bread wheat (trial) and the products were both applied to the wheat as in-crop applications at flag leaf.

The UAN was applied at 100L per hectare and the **UAN + Enhance Max™** at 75L per hectare. These rates were based on soil test results and traditional practice of the farm. All other practices were kept the same throughout the growing of the crops. The crops were harvested and yield monitors were used to gauge the results of the plots.

Application Date	Product Applied	Application Rate
In crop @ flag leaf	UAN	100L /ha
In crop @ flag leaf	UAN + Enhance Max™	75L /ha

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## Demonstration Results

The results of the 2 season demonstration showed a positive response to **UAN + Enhance Max™**. The results showed no difference in yield when **UAN + Enhance Max™** was applied at the 25% reduced rate for the two seasons tested. The grower now for the past three seasons has applied **UAN + Enhance Max™** across his complete top dress cropping programs and the financial pay-off gained are highlighted below.

## The Financial Return on Investment For The Grower

The financial return in using **UAN + Enhance Max™** for this grower was a good result. The grower now undertakes a full program of **UAN + Enhance Max™** over their cereal cropping hectares at 75% of the traditional rate of 100L per hectare of UAN, and requires only 75L per hectare of **UAN + Enhance Max™**. The **Enhance Max™** was applied at 3% of the UAN quantity. As a result 495L of Enhance Max was added to 16,500L of UAN. A **\$20.00/Ha saving**.

### UAN + Enhance Max™ vs UAN. The Growers Financial Return on Investment

Product	Av Application Rate	Typical Total Litres	Av Total Cost	Ha Cost	Av Savings	Av Savings/Ha
UAN	100L /ha	22,000	\$26,400 (\$1.20/L)	\$120/Ha		
UAN + Enhance Max™	75L /ha (75%)	16,995 (\$1.20/L UAN & \$4.40/L Enhance Max)	\$21,978	\$100/Ha	\$4,422	\$20.00

## Conclusion

**UAN + Enhance Max™**, in the two season field demonstration, showed how it can increase nitrogen use efficiency. As a result of the two seasons the grower only uses **UAN + Enhance Max™** for his top dressing cropping program.

By applying **UAN + Enhance Max™** at 75% of the rate of standard UAN he continues to make significant savings on his fertiliser costs as well as freight and handling.

The reseller is enjoying greater grower loyalty, profit margins and by focusing on costs and profits per hectare and not litres or tonnes has taken away a lot of the pricing pressure and helped to gain new business for greater company profits for both his growers and his business.

## About Advanced Nutrients

Advanced Nutrients is a leader in the development of innovative, environmentally benign fertilisers which cost less and deliver more. For the last 13 years, smart agricultural, horticultural and livestock producers throughout Australia, Africa, Asia and the Middle East have been using our products to cut input costs, boost returns and reduce farming costs.

