

BLACK UREA® VS WHITE UREA IN QLD WHEAT

“DEFINITELY USE BLACK AGAIN NEXT YEAR”



CASE STUDY

Grower	Claude Pain
Manager	Claude Pain
Location	Jandowae, QLD
Crop	Wheat

Demonstration Purpose

The grower undertook a demonstration site to compare Black Urea® to white Urea. The purpose was to test the claims of applying Black Urea® at 25% less than white urea (standard practice) and still maintain yield and quality.

Demonstration Set Up

The field chosen was split into 2 x 180ha areas and the products were both applied pre plant - 50kg per hectare of Black Urea® against normal practice of 65kg per hectare of white urea and both incorporated into the soil. The crop was planted mid-May through a combine, Wheat variety Gregory H1.

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 crop. The crop received only two falls of rain, one 20ml fall and one 32ml fall. The crop was harvested and yield monitors were used to gauge the results of the plots.

Application Date	Product Applied	Application Rate
Pre Plant	White Urea	65 kg/ha
Pre Plant	Black Urea®	50 kg/ha

Demonstration Results

The results of the demonstration showed a positive response to Black Urea®. The results showed yields were the same where Black Urea® was applied at the reduced rate of 25% to the traditional rate of white urea. Figure 1 shows the total yield per hectare of both products applied.

Figure 1.

Product	Yield Per Hectare	Grade	Protein	Screenings	Yield Difference
White Urea	2.5 t/ha	APH1	11%	2%	0 t/Ha
Black Urea®	2.5 t/ha	APH1	12%	2%	0 t/Ha

The Financial Pay-off and Return on Investment

The financial return in using Black Urea® for this grower was positive. Not only did the Black Urea® save the grower money per hectare at the reduced rate per hectare applied, it also gave an increase in yield.

Black Urea vs White Urea. The Financial Return on Investment

Product	Av Application Rate	Typical Total Tonnes	Av Total Cost	Freight Total Costs	Av Savings
White Urea	65 kg/ha	117	\$57,330 (\$490/t)	\$4,095 (\$35/t)	
Black Urea®	50 kg/ha	90	\$53,550 (\$595/t)	\$3,150 (35/t)	\$4,725

Financial Future

Looking forward from these positive results, if the grower undertakes a full farm program of Black Urea® over their 360 hectares they would achieve an initial saving of over **\$9,450** off their fertiliser bill.

Conclusion

Black Urea® in this field demonstration has met the claims of a reduced rate per hectare to achieve the same results. As a result the grower received a positive increase in net return per hectare where the Black Urea® was applied. The opportunity then to apply Black Urea® across a greater area the financial reward for this grower would be very positive.

Last comment to the grower:

"I thought it made a difference, much better finish this year, pretty happy all round and will definitely be using again next year."
Claude Pain, Jandowae QLD.

About Advanced Nutrients

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