

**NO NITROGEN LEACHING**  
**Delivering up to 30kg N/ha**  
 THROUGHOUT GROWING SEASON



# trifixN

## TRIAL SUMMARY SUGARCANE



<b>Product:</b>	trifixN
<b>Country:</b>	Zambia
<b>Organised by:</b>	Albida Agriculture Limited
<b>Company:</b>	Illovo Sugar Limited
<b>Crop:</b>	Sugarcane
<b>Application:</b>	trifixN was sprayed onto cane setts before they were covered with soil
<b>Trial Design:</b>	In total there were 16 small research plots of which 8 were treated with trifixN and 8 untreated. The level of fertiliser was the same in all plots.
<b>Results:</b>	This trial has shown a high increase in sugar yield, equivalent to 4.3 tonnes per hectare. This is equivalent to an increase in sugar value of \$1235 per hectare (using 2015 world market prices).  The estimated sugar yield increase in this trial was statistically significant.

### Treatments

Results of Albida Agriculture cane trial	Tonnes Cane per ha.	Tonnes Sugar per ha.
Yield of untreated plots	135.8	17.24
Yield of plots treated with trifixN	160.3	21.55
Difference in tonnes per ha.	24.5	4.31
Difference %	18%	25%
Value of increase from trifixN (sugar price = \$287/tonne)	-	\$1.235
<i>Statistical validation: Least Significant Difference (5% probability)</i>	<i>31.7 tonnes cane</i>	<i>4.1 tonnes sugar</i>

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### Return On Investment :

At an trifixN price of \$50 per hectare this gives a high return on investment even using typical farm gate cane prices.

*(Note - Though these results are very encouraging, this trial may have had a higher than average response, so more trials are needed on commercial cane farms to assess the level of yield increase in different conditions. Individual farmers need to do their own trials so that can estimate by how much trifixN will increase profits in the conditions of their farms.)*



### Conclusion



The estimated sugar yield increase in this trial was statistically significant. This trial adds evidence to the idea that the most profitable way for cane farms to use trifixN is to aim to increase yield as much as possible while keeping fertiliser levels unchanged.

*Full trial reports can be supplied on request.*



*Thinkbio would like to acknowledge and thank Albida Agriculture Limited for their work in conducting this trial.*



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