

TWINN CROP TRIAL



Irrigated Wheat (cv Eland), Lindley, South Africa,
November 2007

KEY RESULT

A single application of TwinN in combination with standard N and P application resulted in an **11% yield increase** over the treatment receiving standard N and P application, without TwinN, in an independent replicated trial.

TREATMENTS

No.	Treatment	Fertiliser		TwinN
		Kg/ha N	Kg/ha P	
1	Untreated (fertiliser only)	48	18	0
2	Fertiliser + TwinN	48	18	1 Application

TRIAL RESULTS

Reps	Untreated Control		TwinN		Yield Increase
	Kg/plot	Ton/ha	Kg/plot	Ton/ha	Ton/ha
I	4.70	3.92	5.50	4.58	0.67
II	5.10	4.25	5.50	4.58	0.33
III	5.10	4.25	6.10	5.08	0.83
IV	5.30	4.42	5.60	4.67	0.25
V	4.80	4.00	5.50	4.58	0.58
VI	5.00	4.17	5.10	4.25	0.08
Average	5.00	4.17	5.55	4.63	0.46

Yield: An average of 460 kg/ha yield increase was obtained with TwinN (11% yield increase)
Grade: All plots qualified for a Grade B2

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TRIAL SUMMARY

Trial Performed & Analysed By: A-SEARCH, Republic of South Africa
Trial Design: Strip design, 6 replicates per treatment

TRIAL DETAILS

Crop Data:

Crop: Wheat
Variety(s): Elands
Row width: 35cm
Sowing rate: 35kg/ha
Sowing date: 15/07/07
TwinN application: 07/11/07 (flag leaf stage)
Harvest date: 03/01/08

TwinN Application Conditions:

Date: 07/11/07
Weather conditions: 28°C onto dew
Application method: Aerial foliar application
Equipment used: Sesna Agwagon
Calibration output: 30 l/ha
Crop stage: Flag leaf (note that application earlier in crop cycle is recommended by suppliers)

Fertiliser Data:

N = 48 kg/ha; P = 18 kg/ha

Soil Data:

Class/Texture: Sand clay loam
Clay content: 28%
Site history: Wheat 2006

CONCLUSIONS

- ◆ Application of TwinN increased yield by 11%.
- ◆ TwinN should be applied earlier in the crop cycle to comply with suppliers recommendations.
- ◆ TwinN should be trialed in combination with 25 and 50% of normal nitrogen rates to assess the potential for increased economic returns to producers.