



SprayGro Liquid Fertilizers
52 Bedford St., Gillman SA, 5013
PO Box 494, Port Adelaide BC SA, 5015
Phone 08 8447 7266, Fax 08 8240 1844
Email spraygro@picknowl.com.au
Website www.spraygro.com.au

SprayGro® Liquid Fertilizers

P.I.S.A. Seed Treatment Trial

AIM: To evaluate the role of coating seed with zinc to increase yield & reduce rhizoctonia.

COOPERATORS: P O'Brien, Kyancutta

DATE SOWN: 15th June 1996

VARIETY: Excalibur Wheat @ 60 kg/ha

**SOIL TYPE/
DESCRIPTION:** Brown sandy loam

SOIL TEST RESULTS:

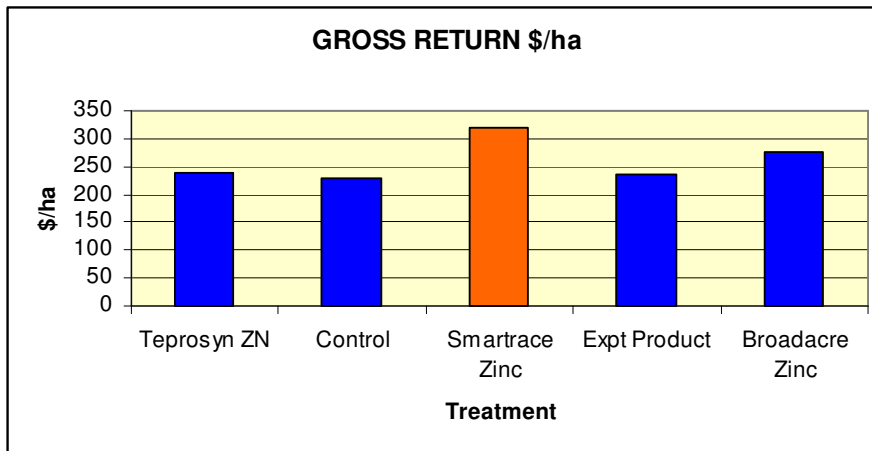
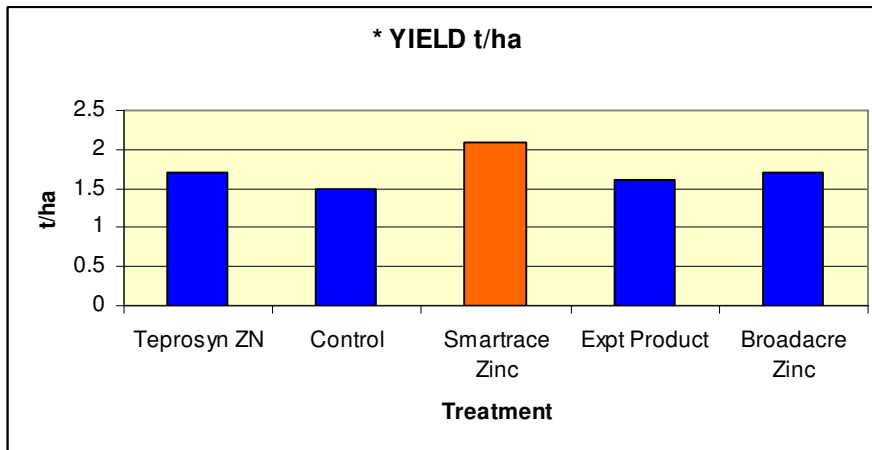
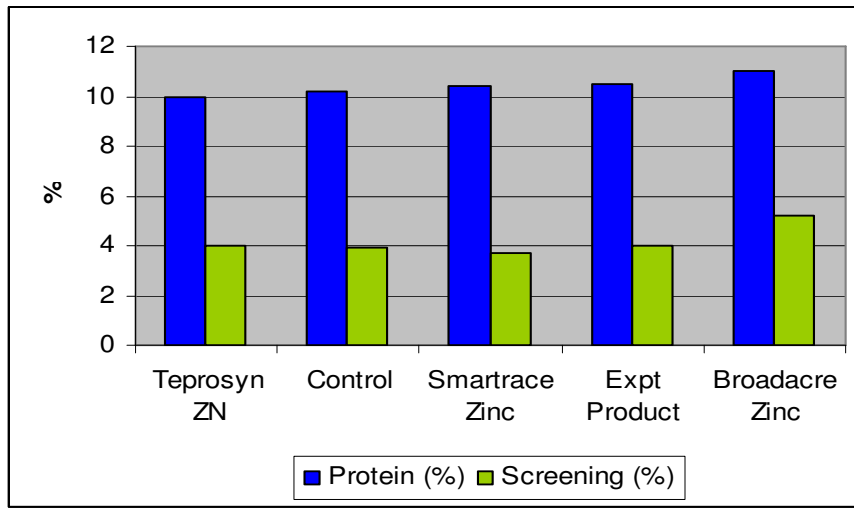
	Ex P (ppm)	Organic C (%)	pH (1:5 water)
	23	0.5	8.2
Status	Low	Low	Alkaline

YIELD

POTENTIAL: 2.4 t/ha from a growing season rainfall of 232mm.

TR NO	TREATMENT	COST \$/ha	Rate Product L/t	Rate Zinc gm/ha
1	Teprosyn Zn	2.96	4	144
2	Control	0.00	0	0
3	SMARTRACE ZINC	0.81	5	30
4	Expt Product	5.70	1	0
5	Broadacre Zinc	2.64	4	156

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NOTE:

- Gross return was calculated as grain price with protein adjustments less treatment costs.
- All treatments had 18:20:0 at 70 kg/ha.
- **SMARTRACE ZINC®** - Spraygro, Teprosyn Zn® - Phosyn, Broadacre Zinc® - Agrichem, Expt Product - Ag Master

DISCUSSION:

- All treatments in this trial (except control) were coated on the seed with a total liquid content of 10 litres/tonne of seed.
- All zinc coated treatments did appear to reduce the rhizoctonia root infection however it had no affect on haydie lesions.
- Zinc tissue levels were higher for the Broadacre Zinc treatment however this had no significant yield influence.

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- When economics are evaluated the **Smartrace Zinc®** had a better gross return than the Control which in turn was greater than other seed coated treatments.
- The treatment Expt Product is now not manufactured in the formulation used in this trial. Teprosyn Zn® and Broadacre Zn® has zinc in the oxide form whilst **Smartrace Zinc®** is zinc in a chelate formulation.
- **Spraygro Smartrace Zinc®** is a 10% W/V Zinc concentrate; it is a flow able dust free product.