



Loveland

AGRI PRODUCTS
Get Growing

2015 SA Trial Data

To investigate the effectiveness of a variety of Loveland plant nutritional products on grain yield in wheat cv. Mace.
Keith, SA.

Trial Protocol

- Fully randomised & replicated plot work – 3 replicates
- Plot size = 8m X 1.5m
- Treatments applied –
 - Black Label Zn, Awakewn,
- Application Date – 21st July 2015.

Seeding Date	20th May 2015
Site	T & J Oldfield, Keith, SA.
Variety	Mace Wheat @ 90 kg/ha
Protocol	Foliar applied
GSP	MAP @ 90 kg/ha + Urea @ 100 kg/ha deep banded

MAP	N	P	K	S	Ca	Cu	Zn
	10	22	---	1.6	--	--	--

Paddock Soil Tests

- No soil tests available for the 2015 season.
- Grey calcareous sandy loam with high soil moisture at planting.
- 2013 – Annual pasture
- 2014 – Clearfield Canola

MAP : 10-22-0-1.6

Treatments

Treatment	Treatment	Applied Rate
1	GSP	----
2	Basis	On Fertiliser
3	Awaken ST	On seed
4	Awaken	Foliar @ 2.4L/ha @ Z30
5	Lokomotive	Foliar @ 10L/ha @ Z30
6	Black Label Zn Cereal	Foliar @ 10L/ha + Liberate @ Z30

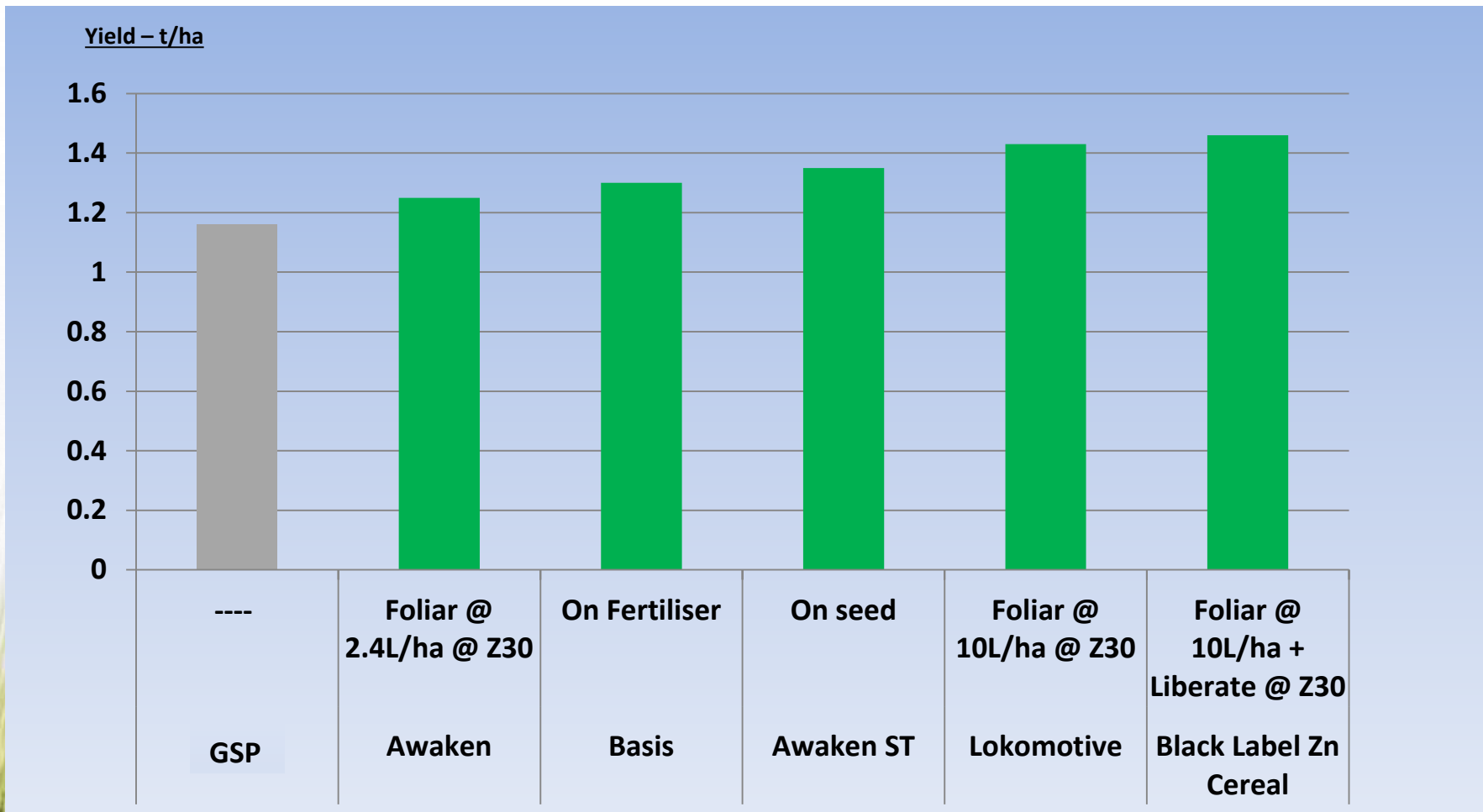


Wheat – Grain Yield

Treatment	Product	Applied Rate	Yield t/ha
1	Black Label Zn Cereal	Foliar @ 10L/ha + Liberate @ Z30	1.46
2	Lokomotive	Foliar @ 10L/ha @ Z30	1.43
3	Awaken ST	On seed	1.35
4	Basis	On Fertiliser	1.30
5	Awaken	Foliar @ 2.4L/ha @ Z30	1.25
6	GSP	----	1.16

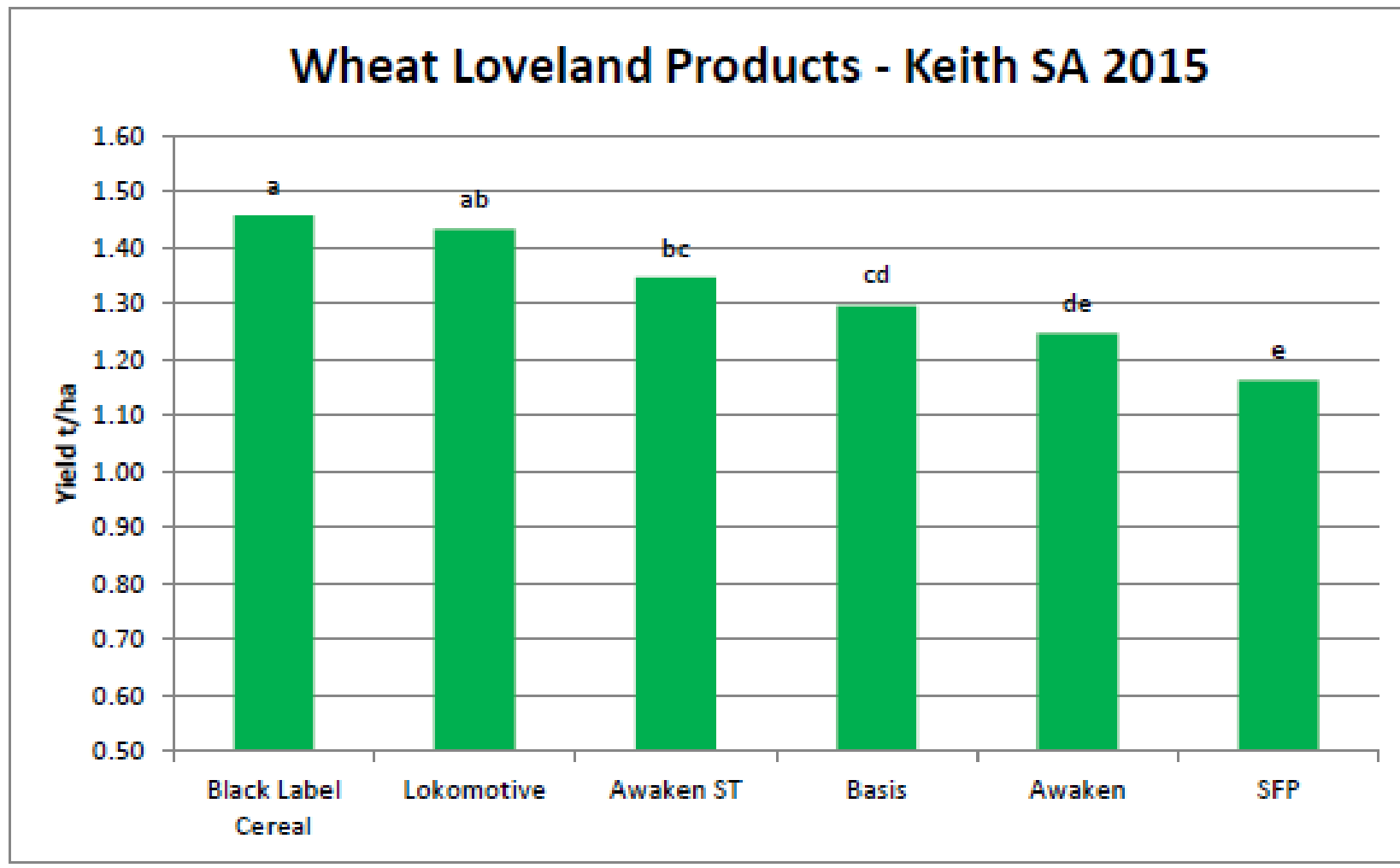
LSD (P=0.05) = 0.09 CV = 3.9%

Wheat Grain Yield



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Wheat Grain Yield

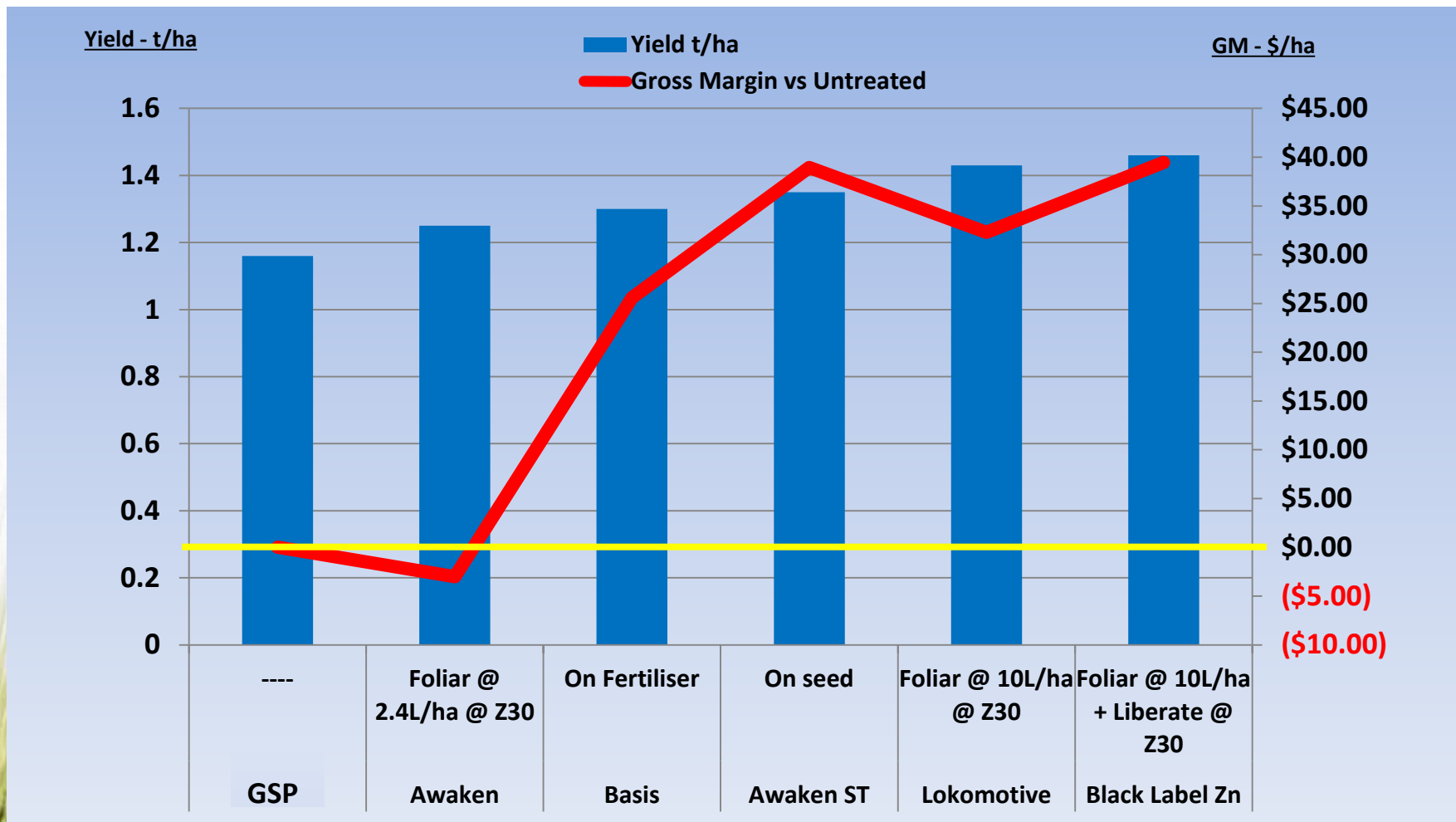


LSD (P=0.05) = 0.09 CV = 3.9%

Wheat – ROI / Economics based on Wheat @ \$250/tn

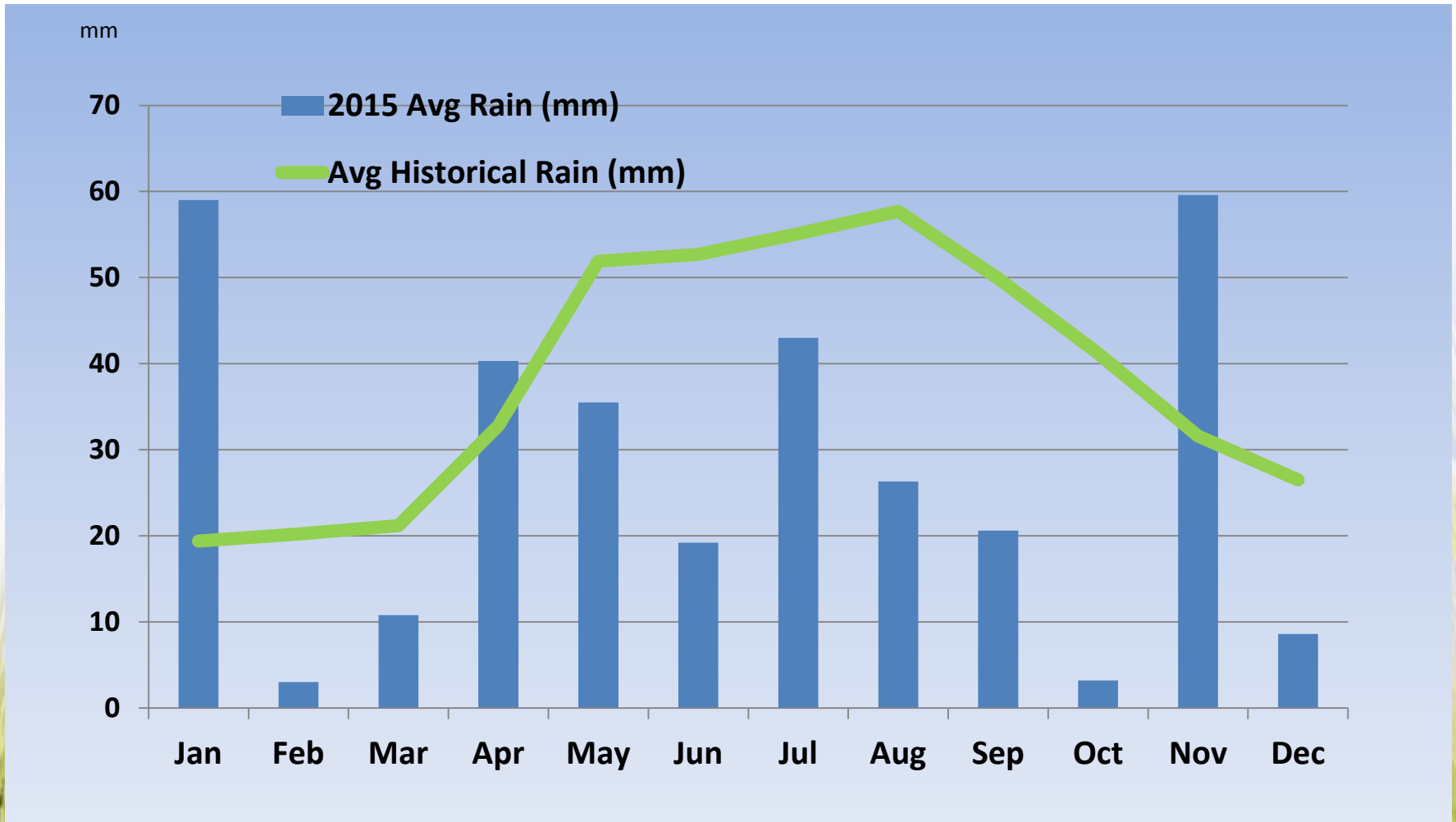
Treatment	Applied Rate	Gross Margin vs Untreated	Yield t/ha
Black Label Zn	Foliar @ 10L/ha + Liberate @ Z30	\$39.46	1.46
Lokomotive	Foliar @ 10L/ha @ Z30	\$32.28	1.43
Awaken ST	On seed	\$38.93	1.35
Basis	On Fertiliser	\$25.59	1.30
Awaken	Foliar @ 2.4L/ha @ Z30	-\$3.01	1.25
GSP	----	\$0.00	1.16

Wheat - Economics based on Wheat @ \$250/tn



LSD (P=0.05) = 0.0,210 CV = 8.8%

Keith, SA. Rainfall



Conclusions

- A dry season resulted in low yields at the site.
- The value of plant nutritional optimisation and stress management was evident with a number of positive and economically-attractive yield responses.
- Black Label Cereal gave the highest yield response at 25% closely followed by Lokomotive – a potassium acetate fertiliser – at 23% over standard farmer practice.
- Low cost/ha products Awaken ST – a seed dressing – and Basis – a fertiliser biocatalyst – gave excellent returns on investment at 6.8 and 4.3 respectively. Awaken ST provided a 17% yield response.
- All the above yield responses were statistically significant.
- Awaken at high foliar rates did not give a statistically-significant response.