



**Loveland**  
**AGRI PRODUCTS**™

## **Trial Data**

*Awaken Foliar - Wheat*

*Keith, SA*

# Trial Setup

- Fully randomised and replicated plot work - 4 replicates
- Plot size = 10m X 1.7m

**Planting date:** *20/05/2015*

**Application date:** *21/07/2015*

**Site:** *Keith, SA*

**Variety:** *Mace Wheat @ 90kg/ ha*

**GSP:** *MAP @ 90kg/ ha + Urea @ 100kg/ ha deep banded*

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# Trial Protocol

Treatment	
Oxide	Yara Mancozin
Chelate	Wilchem Signature ZMC 2-4-2
Sulphate	Generic
+ / -	Nutrisync M & Awaken

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# 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

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# Treatments

Treatment	Treatment	Application Timing & Rates
1	GSP	-
2	MC Sul + Zn Sul	GS25/30 @ 3L + 1L
3	ZMC Oxide	GS25/30 @ 1L
4	ZMC Signature	GS25/30 @ 4L
5	ZMC Signature + Awaken	GS25/30 @ 4L + 1.2L
6	MC Sul + Zn Sul + Awaken	GS25/30 @ 3L + 1L + 1.2L
7	ZMC Oxide + Awaken	GS25/30 @ 1L + 1.2L
8	ZMC Signature + Nutrisync M	GS25/30 @ 4L + 365mL
9	ZMC Signature + Awaken + Nutrisync M	GS25/30 @ 4L + 1.2L + 365mL

*KTill: 10-12-11-6*

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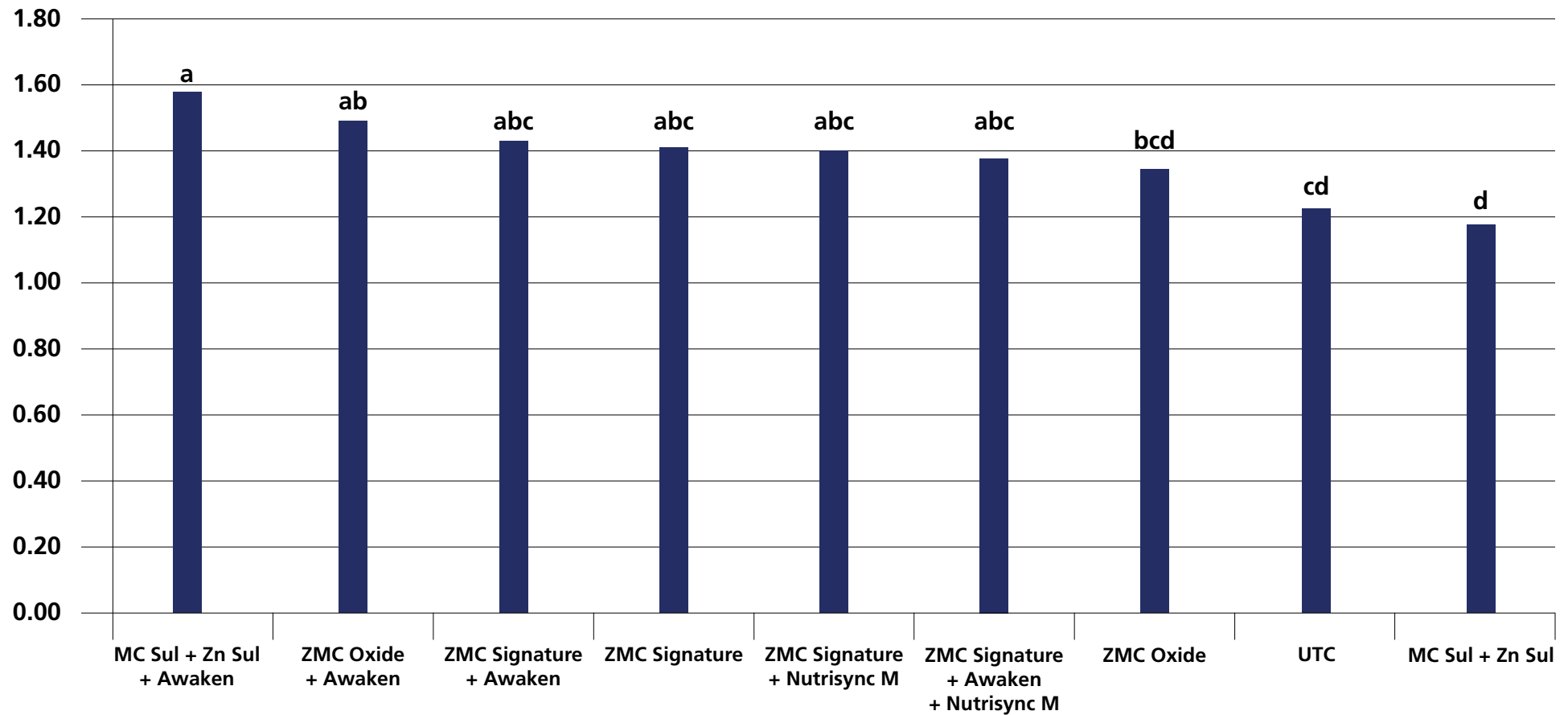
# Wheat - Grain Yield

Treatment	Treatment	Application Timing & Rates	Yield t/ ha
1	GSP	-	1.22
2	MC Sul + Zn Sul	GS25/30 @ 3L + 1L	1.17
3	ZMC Oxide	GS25/30 @ 1L	1.33
4	ZMC Signature	GS25/30 @ 4L	1.41
5	ZMC Signature + Awaken	GS25/30 @ 4L + 1.2L	1.42
6	MC Sul + Zn Sul + Awaken	GS25/30 @ 3L + 1L + 1.2L	1.57
7	ZMC Oxide + Awaken	GS25/30 @ 1L + 1.2L	1.52
8	ZMC Signature + Nutrisync M	GS25/30 @ 4L + 365mL	1.40
9	ZMC Signature + Awaken + Nutrisync M	GS25/30 @ 4L + 1.2L + 365mL	1.38

*LSD (P=0.05) = 0.210 CV = 8.8%*

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# Wheat - Grain Yield



$LSD (P=0.05) = 0.210$   $CV = 8.8\%$

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# Wheat - ROI / Economics

Treatment	Application Timing & Rates	Gross Margin vs Untreated	Yield t/ ha
MC Sul + Zn Sul + Awaken	GS25/30 @ 3L + 1L + 1.2L	\$69.32	1.57
ZMC Oxide + Awaken	GS25/30 @ 1L + 1.2L	\$47.07	1.52
ZMC Signature	GS25/30 @ 4L	\$34.30	1.42
ZMC Signature + Awaken	GS25/30 @ 4L + 1.2L	\$25.38	1.41
ZMC Signature + Nutrisync M	GS25/30 @ 4L + 365mL	\$22.08	1.40
ZMC Oxide	GS25/30 @ 1L	\$12.78	1.38
ZMC Signature + Awaken + Nutrisync M	GS25/30 @ 4L + 1.2L + 365mL	\$6.99	1.33
GSP	1.22L	\$0	1.22
MC Sul + Zn Sul	GS25/30 @ 3L + 1L	-\$17.45	1.17

*LSD (P=0.05) = 0.210 CV = 8.8%*

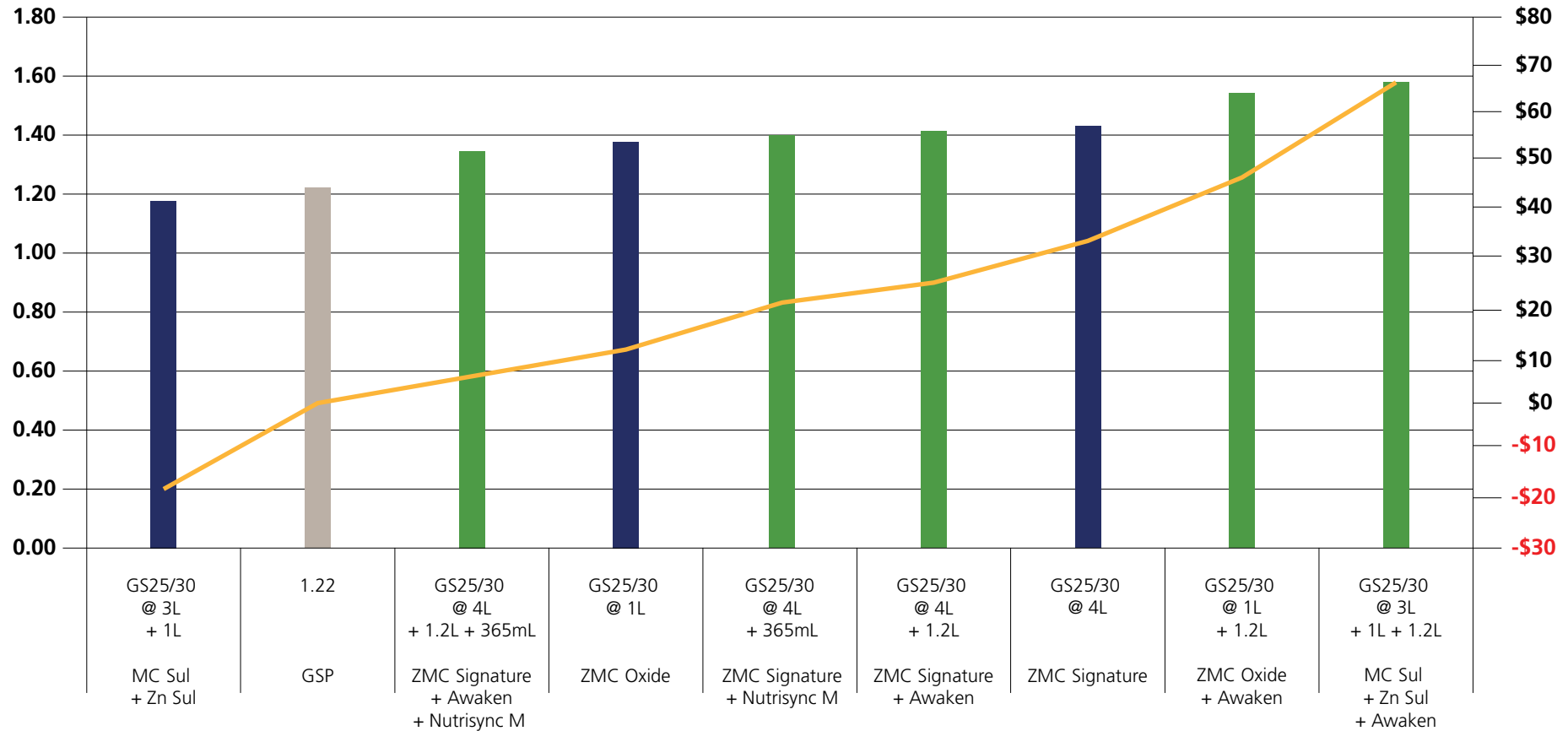
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# Wheat - Economics

Yield - t/ ha

GM - \$/ ha vs UTC



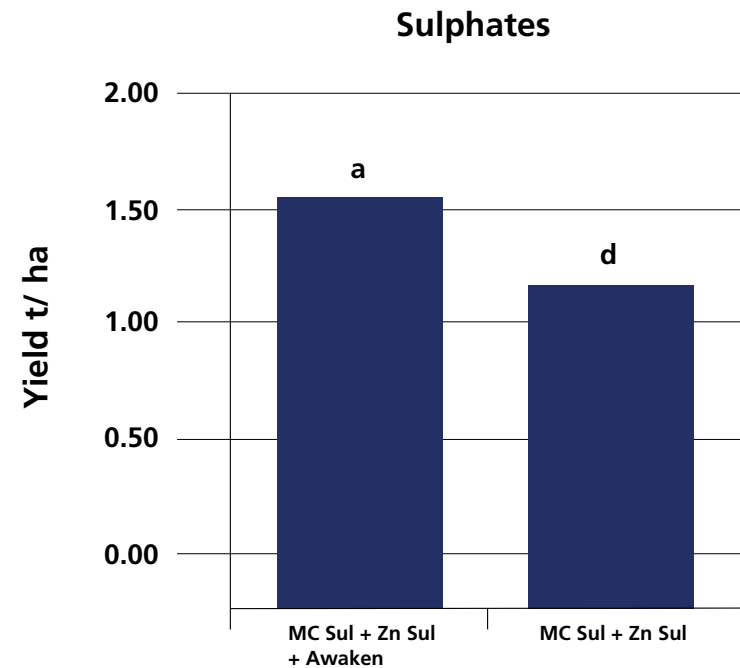
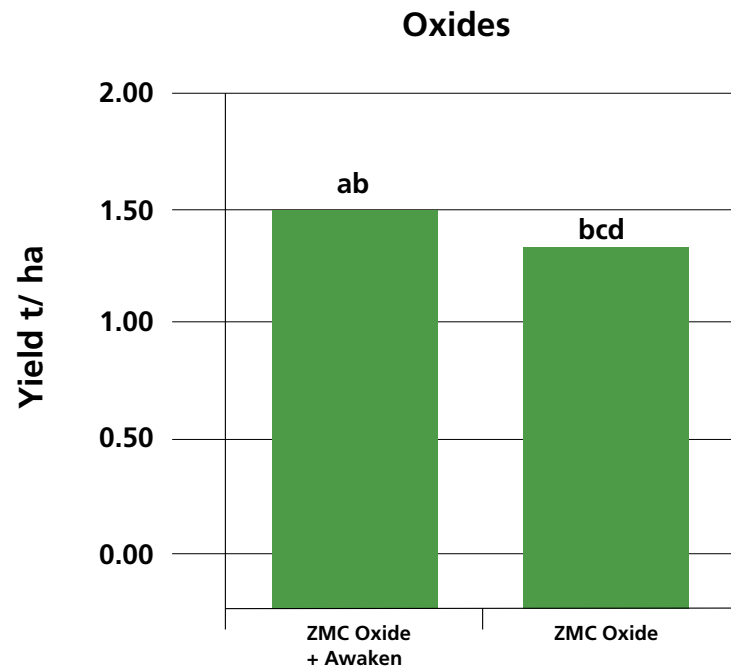
LSD (P=0.05) = 0.210 CV = 8.8%



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# Wheat - Addition of Awaken

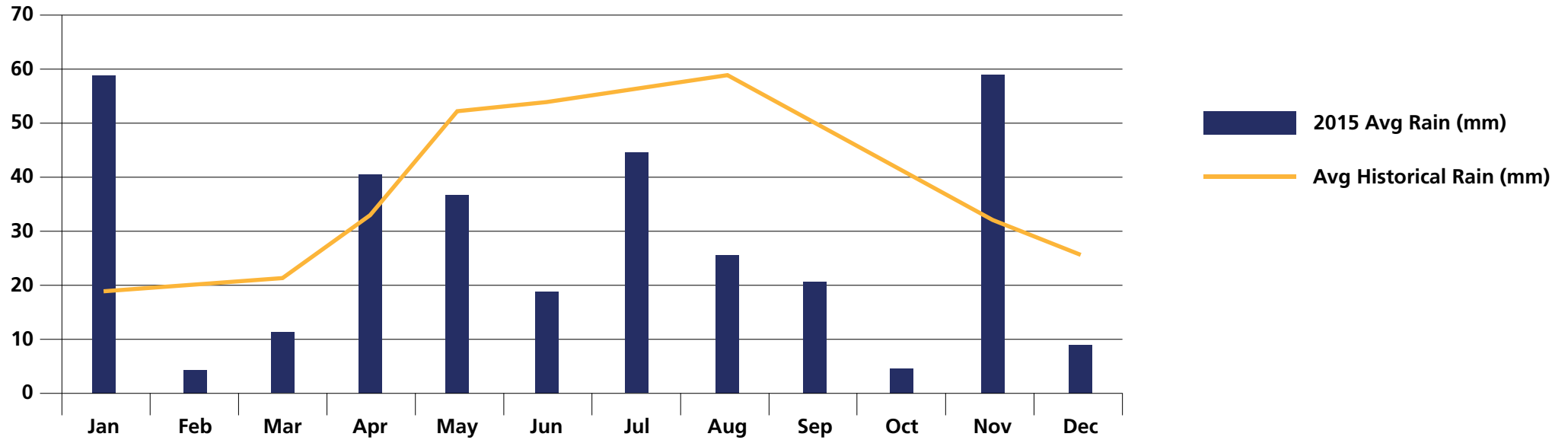
- Awaken increased grain yield by 34% when added to the Zinc and MC Sulphates compared to Sulphates alone
- Awaken also provided a 14% grain yield increase when mixed with Oxides



*LSD (P=0.05) = 0.210 CV = 8.8%*

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# Keith - Rainfall (mm)



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# Conclusions

- A dry season resulted in low yields at the site and resulted in few statistically significant yield increases from trace element application at GS25 due to a lack of moisture and potentially frost limiting crop potential
- Only Sulphate + Awaken and Oxide + Awaken treatments showed significant yield improvements over untreated
- The biggest yield response occurred by adding Awaken to the Sulphate trace elements, which increased yield by 28% over untreated and 34% over the Sulphates on their own
- 14% yield gain was measured when Awaken was added to an oxide
- No grain quality parameters were assessed