



Loveland
AGRI PRODUCTS™

Trial Data

Awaken ST - Lentil

Callington, SA

Trial Setup

- Plot size = 1.5m X 20m - 4 replicates

Planting date: 02/06/2016

Site: Callington, SA

Variety: Jumbo 2 Lentil @ 50kg/ ha

GSP: Sowing Fertiliser: MAP @ 60kg/ ha

NOTE: ZMC (Spraygro) - S-7.3%; Zn-9%; Mn-4%; Cu-1.5%

Protocol: Pre Sow: Terbyne Xtreme @ 0.5kg/ ha + Boxer Gold @ 2.5L/ ha + Avadex Xtra @ 2L/ ha

Sowing Equipment: Conserva Pak tynes on 260mm spacings

Post Emergent: (Aug 17) - Clethodim @ 1L/ ha

Post Emergent: (Sep 9) - Carbendazim @ 0.5L/ ha + Chlorothalonil @ 1L/ ha + NutriSync D @ 0.8L/ ha +

ZMC @ 0.3L/ ha + Pirimor @ 0.4kg/ ha

Trial Protocol

Treatment		Seed Treatment Rate/ t seed
T1	Untreated	-
T2	Inoculant	PEAT
T3	Pulse Seed Coating	5
T4	Inoculant + Pulse Seed Coating	PEAT + 5
T5	Kickstart	4
T6	Seed Zinc	4
T7	Awaken ST	4

NOTE: T2 & T4 were the only treatments that were inoculated.

Awaken ST: N-7%; K-1%; Zn-6% + trace element package

Seed Zinc (is activist Zinc - Agrichem): N-5%; Zn-2%

Kickstart (SJB): P-6%; Zn-4% + trace element package

Pulse Seed Coating: Landmark SA Experimental

Yield

Treatment		Seed Treatment Rate/ t seed	Yield t/ ha
T1	Untreated	-	2.98
T2	Inoculant	PEAT	2.98
T3	Pulse Seed Coating	5L	3.05
T4	Inoculant + Pulse Seed Coating	PEAT + 5L	3.21
T5	Kickstart	4L	3.28
T6	Seed Zinc	4L	3.37
T7	Awaken ST	4L	3.32

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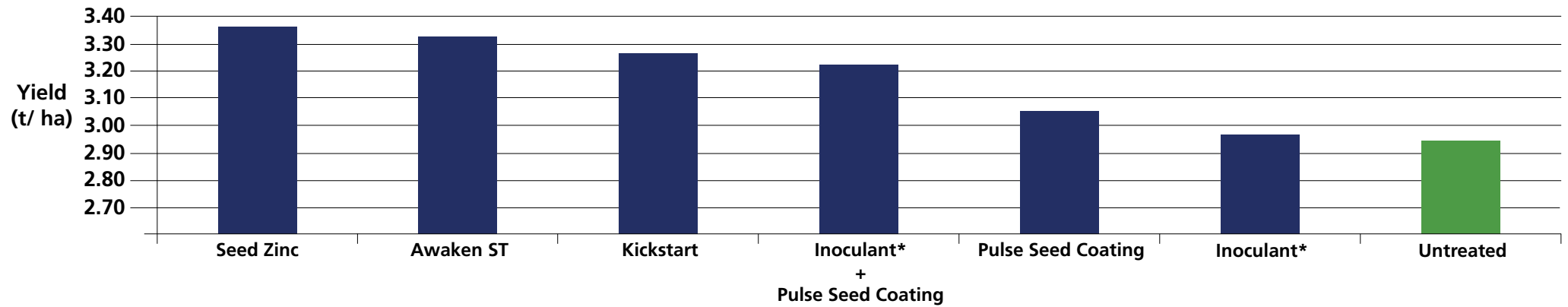
Yield & Stats

Treatment		Applied Rate / ha	Yield t/ ha	Yield as % of GSP	Sig. Diff.
T6	Seed Zinc	4L	3.37	113	a
T7	Awaken ST	4L	3.32	112	a
T5	Kickstart	4L	3.28	110	a
T4	Inoculant* + Pulse Seed Coating	PEAT + 5L	3.21	108	ab
T3	Pulse Seed Coating	5L	3.05	103	bc
T2	Inoculant*	PEAT	2.98	100	c
T1	Untreated	-	2.98	100	c

$LSD (P=0.05) = 0.22 CV - 6.3$

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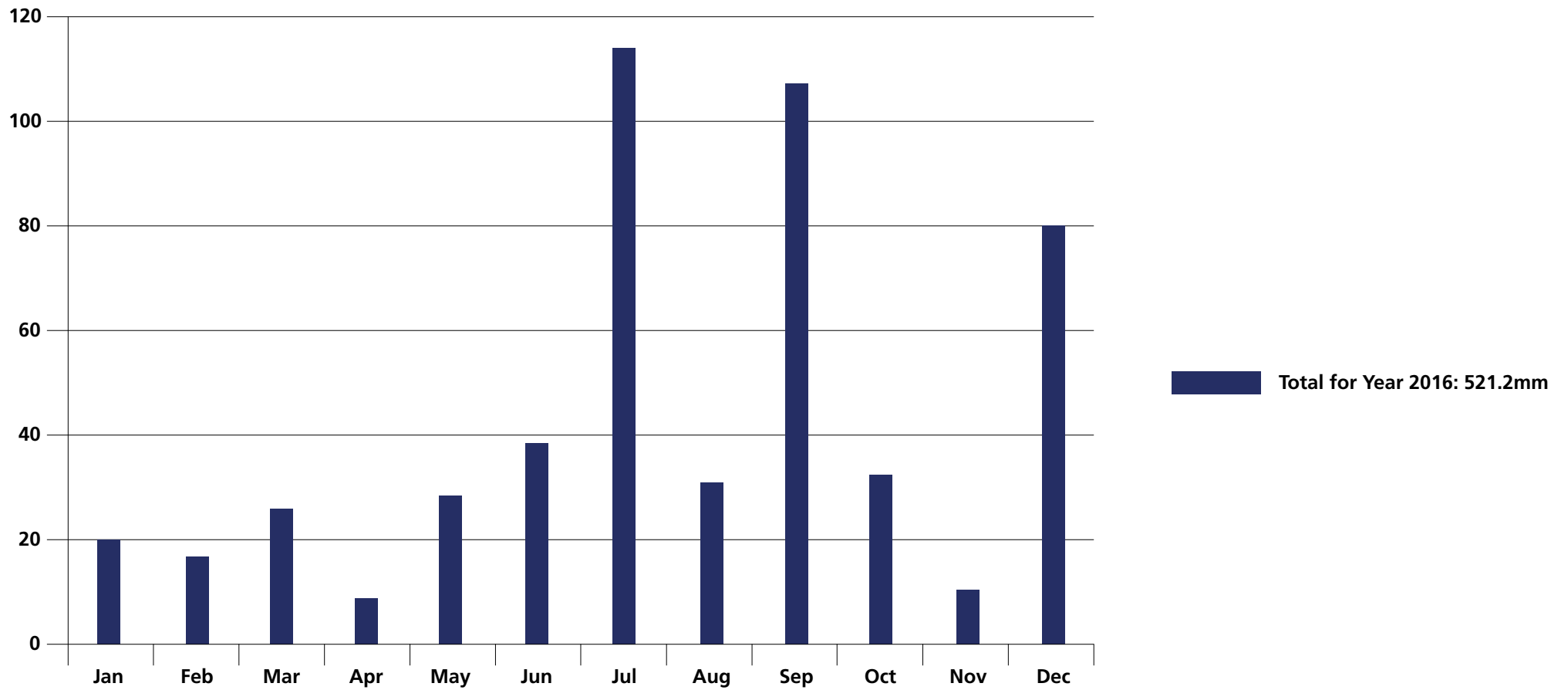
Yield



$LSD (P=0.05) = 0.22 CV - 6.3$

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Callington - Rainfall (mm)



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Conclusions

- There were significant differences in this trial compared to the untreated that yielded 2.98 t/ ha
- The Seed Zinc topped the trial with a 13% increase over untreated
- Awaken ST was just behind with a 12% increase in yield
- In this trial, inoculation of seed alone did not give a yield response. However, when combined with Pulse Seed Coating, an 8% yield increase was observed