



Loveland

AGRI PRODUCTS
Get Growing

LENTIL
Seed Inoculant
WEETULTA, SA

LOV16

Trial Design

- LOCATION: WEETULTA, Central Yorke Peninsula, SA
- Landmark Contact/ Cooperator: Leighton Wilksch
- Plot size – 1.5m x 11m – replicated x 4
- Treatments Applied: Seed treatment

Seeding Date	23rd May 2016
Site	Weetulta, SA
Variety	Jumbo 2 (Lentil) 50 kg/ha
Protocol	Pre Sow: Terbyne Xtreme + Boxer Gold + Avadex Xtra @ 0.5kg + 2.5L + 2.0L/ha Sowing Equipment: Conserva Pak tynes on 260 mm spacings. Post Emergent: 6th July - Clethodim @ 1 lt/ha. Post Emergent: 5th Sept - Chlorohalonil + Carbendazim + Pirimor @ 1.0 + 0.5L + 0.5kg/ha Post Emergent: 10th Oct - Chlorohalonil + Carbendazim + Trojan @ 1.0 + 0.5 + 0.05L/ha
GSP	Sowing fert: MAP at 60 kg/ha

Soil Test Data



SOIL 0-10 cm	
pH (CaCl ₂)	
eCEC cmol +/kg	
Calcium (Amm-acet) cmol +/kg	
Magnesium (Amm-acet) cmol +/kg	
Exch. Sodium %	

DEEP N 0-60cm	
Nitrate nitrogen (KCl) mg/kg	
Ammonium nitrogen (KCl) mg/kg	
Sulfate-S (KCl ₄₀) mg/kg	

Nitrate nitrogen (KCL) mg/kg	
Ammonium nitrogen (KCl) mg/kg	
Phosphorus (Colwell) mg/kg	
Potassium (Amm-acet) cmol+/kg	
Sulfate-S (KCl ₄₀) mg/kg	
Copper (DTPA) mg/kg	
Zinc (DTPA) mg/kg	

Trial Protocol

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

Note: T2 and T4 were the only treatments that were inoculated.

Awaken ST – N-7%; K-1%; Zn-6% plus trace element package

Seed Zinc (is Activist Zinc – Agrichem) – N-5%; Zn-2%

Kickstart (SJB) – P-6%; Zn-4% plus a trace element package

Pulses seed coat – Landmark SA experimental

Yield



Treatment	Seed Treatment lt/ T seed	Yield T/ha
Untreated	-	1.32
Inoculant	PEAT	1.53
Pulse Seed Coat	5	1.15
Inoculant + Pulse Seed Coat	PEAT + 5	1.73
Kickstart	4	1.44
Seed Zinc	4	1.39
Awaken ST	4	1.56

Yield and Stats

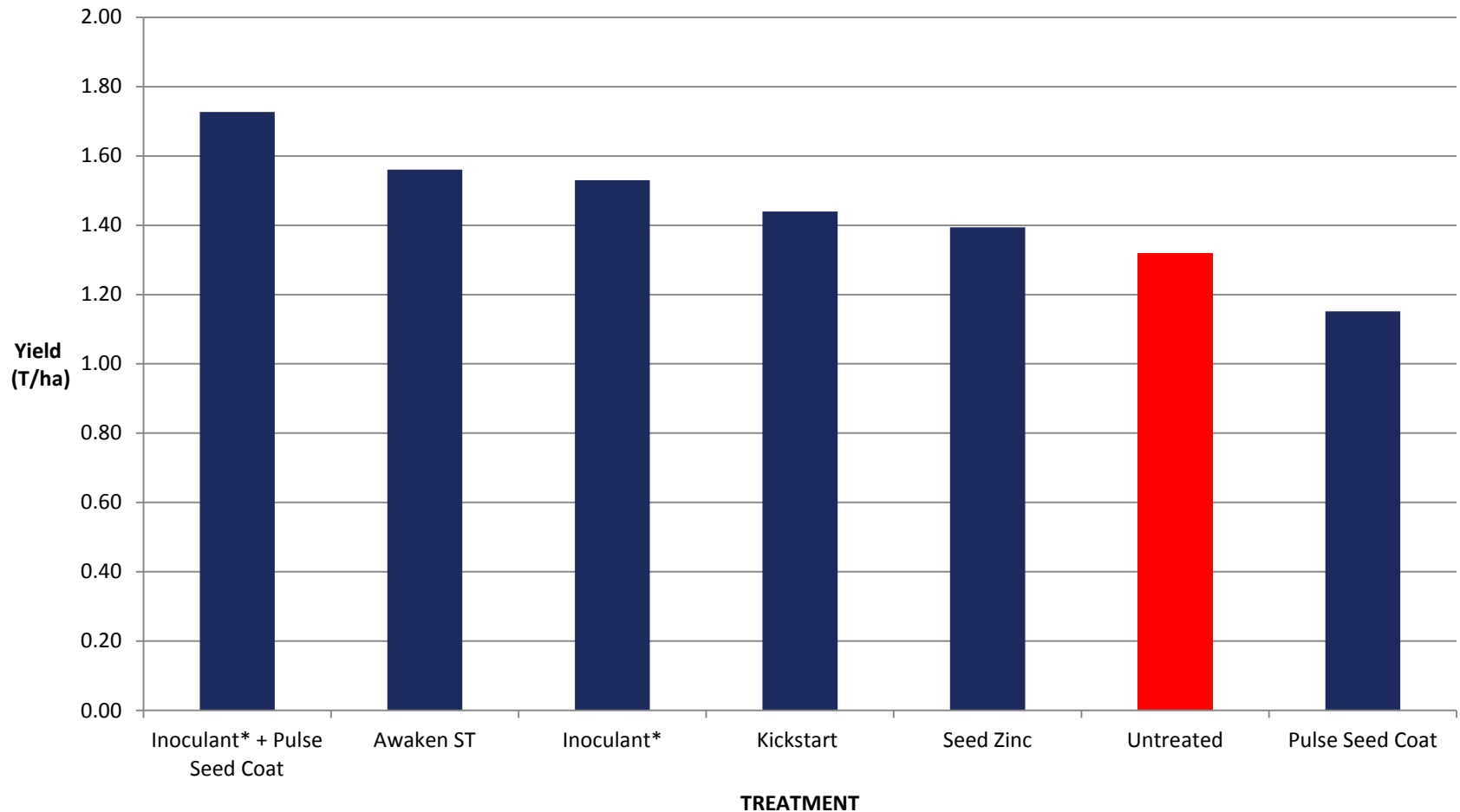


	Treatment	Applied Rate /ha	Yield T/ha	Yield as % of GSP
4	Inoculant* + Pulse Seed Coat	Peat + 5 lt	1.73	131
7	Awaken ST	4 lt	1.56	118
2	Inoculant*	Peat	1.53	116
5	Kickstart	4 lt	1.44	109
6	Seed Zinc	4 lt	1.39	105
1	Untreated	-	1.32	100
3	Pulse Seed Coat	5 lt	1.15	87

Yield Statistics:

This trial data came through already analysed without any statistical information attached

Yield (T/ha)

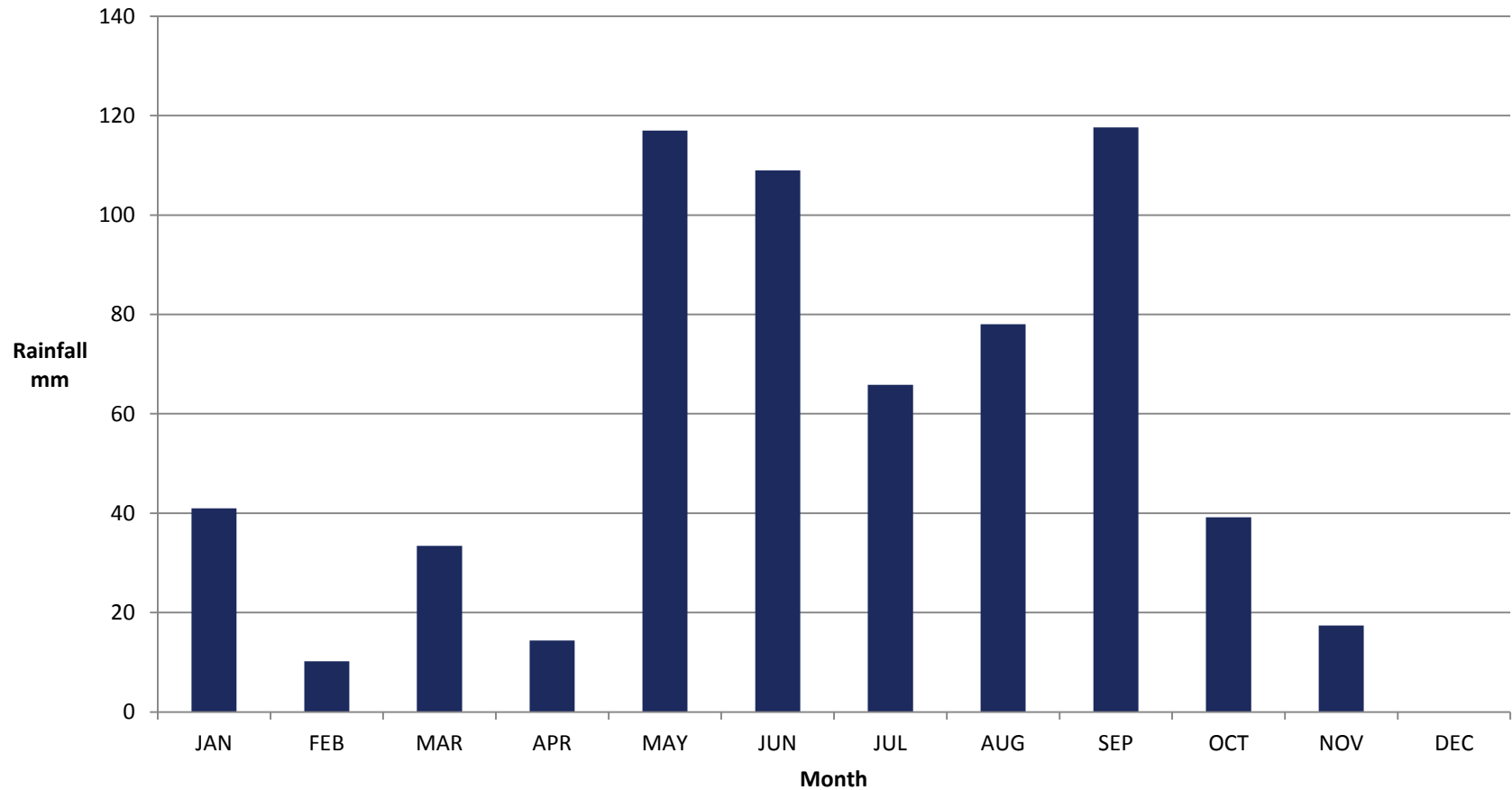


Rainfall Total – 643mm

(Note: Dec data unavailable so not in total)



RAINFALL DATA 2016 Arthurton, SA



Conclusions

- The untreated in this trial yielded 1.32 T/ha
- Inoculated seed treated with Pulse coat yielded 1.73 T/ha which was an increase of 31% on Untreated
- Awaken ST was the next best with a 18% increase
- Inoculating seed with no additional nutrition resulted in a 16% increase