



Loveland

AGRI PRODUCTS
Get Growing

LENTIL
MICRO NUTRIENT
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: 5th September, 20cm high

Seeding Date	23rd May 2016
Site	Weetulta, SA
Variety	Jumbo 2 (Lentil) 50 kg/ha
Protocol	<p>Pre Sow: Terbyne Xtreme + Boxer Gold + Avadex Xtra @ 0.5kg + 2.5L + 2.0L/ha</p> <p>Sowing Equipment: Conserva Pak tynes on 260 mm spacings.</p> <p>Post Emergent: 6th July - Clethodim @ 1 lt/ha.</p> <p>Post Emergent: 5th Sept - Chlorohalonil + Carbendazim + Pirimor @ 1.0 + 0.5L + 0.5kg/ha</p> <p>Post Emergent: 10th Oct - Chlorohalonil + Carbendazim + Trojan @ 1.0 + 0.5 + 0.05L/ha</p>
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	GSP	-
T2	Nutrisync D	0.365L
T3	Nutrisync D	0.73L
T4	Spraygro Firmrite	7L
T5	SJB Lig-grain plus	2L
T6	Nutrisync D + Firmrite	0.365 + 7L
T7	Nutrisync D + SJB Lig-grain plus	0.365 + 2L

SprayGro Firmrite – Ca-16%

SJB Lig-grain Plus – Zn-4%; Cu-3%;Mn-1%; B-05%; Mo-0.1%

Yield



Treatment	Seed Treatment lt/ T seed	Yield T/ha
GSP	-	1.41
Nutrisync D	0.365L	1.62
Nutrisync D	0.73L	1.67
Spraygro Firmrite	7L	1.86
SJB Lig-grain plus	2L	1.41
Nutrisync D + Firmrite	0.365 + 7L	1.83
Nutrisync D + SJB Lig-grain plus	0.365 + 2L	1.48

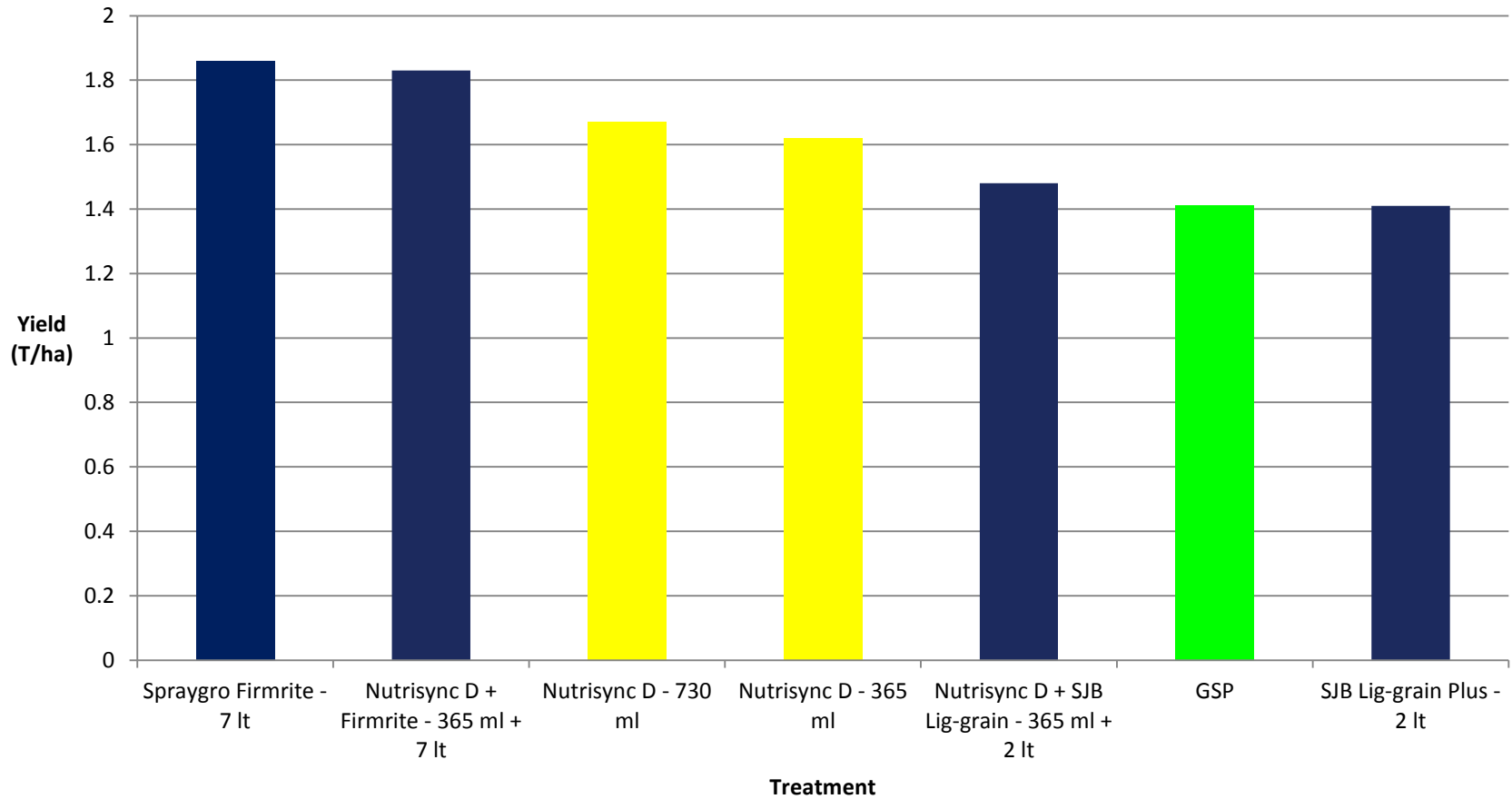
Yield and Stats



Treatment		Applied Rate lt/ha	Yield T/ha	Yield as % of GSP
4	Spraygro Firmrite	7	1.86	132
6	Nutrisync D + Spryagro Firmrite	0.365 + 7	1.83	130
3	Nutrisync D	0.73	1.67	118
2	Nutrisync D	0.365	1.62	115
7	Nutrisync D + SJB Lig-grain Plus	0.365 + 2	1.48	105
1	GSP	-	1.41	100
5	SJB Lig-grain Plus	2	1.41	100

Yield Statistics: Not available

Yield (T/ha)

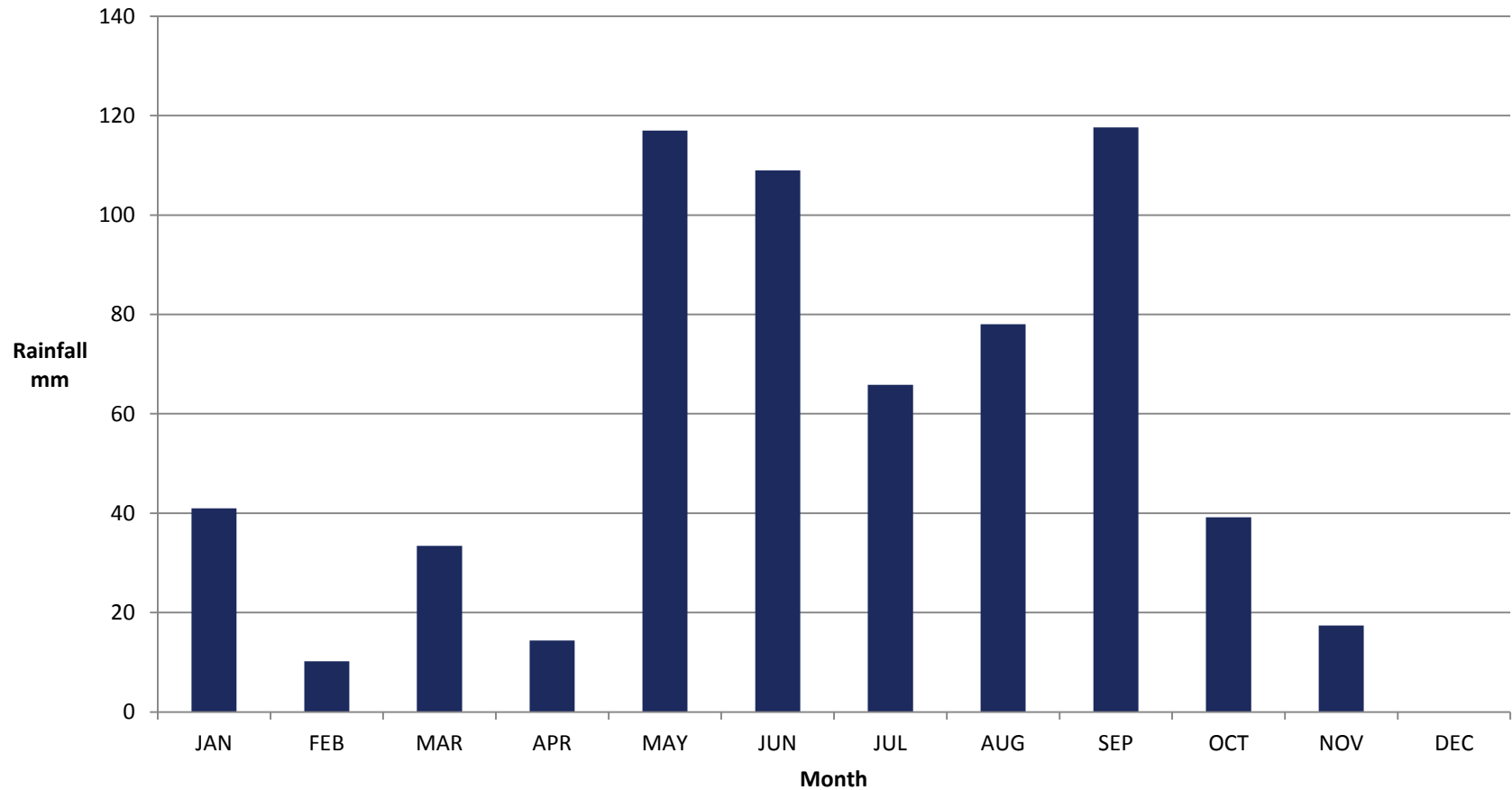


Rainfall Total – 643mm

(Note: Dec data unavailable so not in total)



RAINFALL DATA 2016 Arthurton, SA



Conclusions

- The GSP yielded 1.41 T/ha
- Spraygro Firmrite at 7 lt/ha topped this trial with 1.82 T/ha or a 32% increase on GSP
- When Nutrisync D at 365ml was added to 7 lt of Firmrite yield was 1.83 T or 30% of GSP
- Nutrisync D when applied at 730 ml (1.67 T) and 365ml (1.62 T) both performed well with 18% and 15% increases on GSP.