



Loveland

AGRI PRODUCTS
Get Growing

FABA BEANS **APP Starter with Black Ultra** **Liquid Inject**

LOV16_30

Trial Design



- Treatments replicated 8 times on a randomised design
- Plot size – 10m x 1.75m –
- Treatments Applied: Liquid Inject at sowing.

Seeding Date	Friday 20 th May 2016
Site	Temora Agricultural Innovation Centre
Variety	PBA Samira (Faba Beans) – 130 kg/ha
Protocol	Pre Emergent: Roundup Ultramax @ 1.5 lt/ha + Trifluralin 480 @ 2.0 lt/ha PSPE: Sencor @ 200 gm/ha Post Emergent: Fastac @ 250ml/ha + Talstar @ 200ml/ha Post Emergent: Mancozeb @ 1 kg/ha
GSP	Sowing fert: MAP @ 75kgs/ha

Soil Test Data



SOIL 0-10 cm	
pH (CaCl ₂)	5.7
eCEC cmol +/kg	8.2
Calcium (Amm-acet) cmol +/kg	5.7
Magnesium (Amm-acet) cmol +/kg	1.0
Exch. Sodium %	0.9

Nitrate nitrogen (KCL) mg/kg	33
Ammonium nitrogen (KCl) mg/kg	1
Phosphorus (Colwell) mg/kg	45
Potassium (Amm-acet) cmol+/kg	1.4
Sulfate-S (KCl40) mg/kg	7.8
Copper (DTPA) mg/kg	0.95
Zinc (DTPA) mg/kg	0.52

Trial Protocol

Treatment	Treatment	Applied Rate lt/ha
T1	UTC	-
T2	APP	20
T3	APP + Black Ultra + FLM	20 + 3 + 3
T4	LPI 6528	10
T5	LPI 6528 + APP	10 + 10
T6	GSP = MAP	70 kg
T7	GSP + ACA + FLM	3.5 + 3
T8	SJB – CR Phosika Plus	15
T9	APP + Black Jack K + FLM	20 + 5 + 3

APP – Ammonium Poly Phosphate – N-16%; P-23%

FLM – Foundation LM

Black Ultra – K-4%

Black Jack K – N-3%; K-27%

CR Phosika Plus – P-15%; S-5%

Faba Bean Yield and Quality

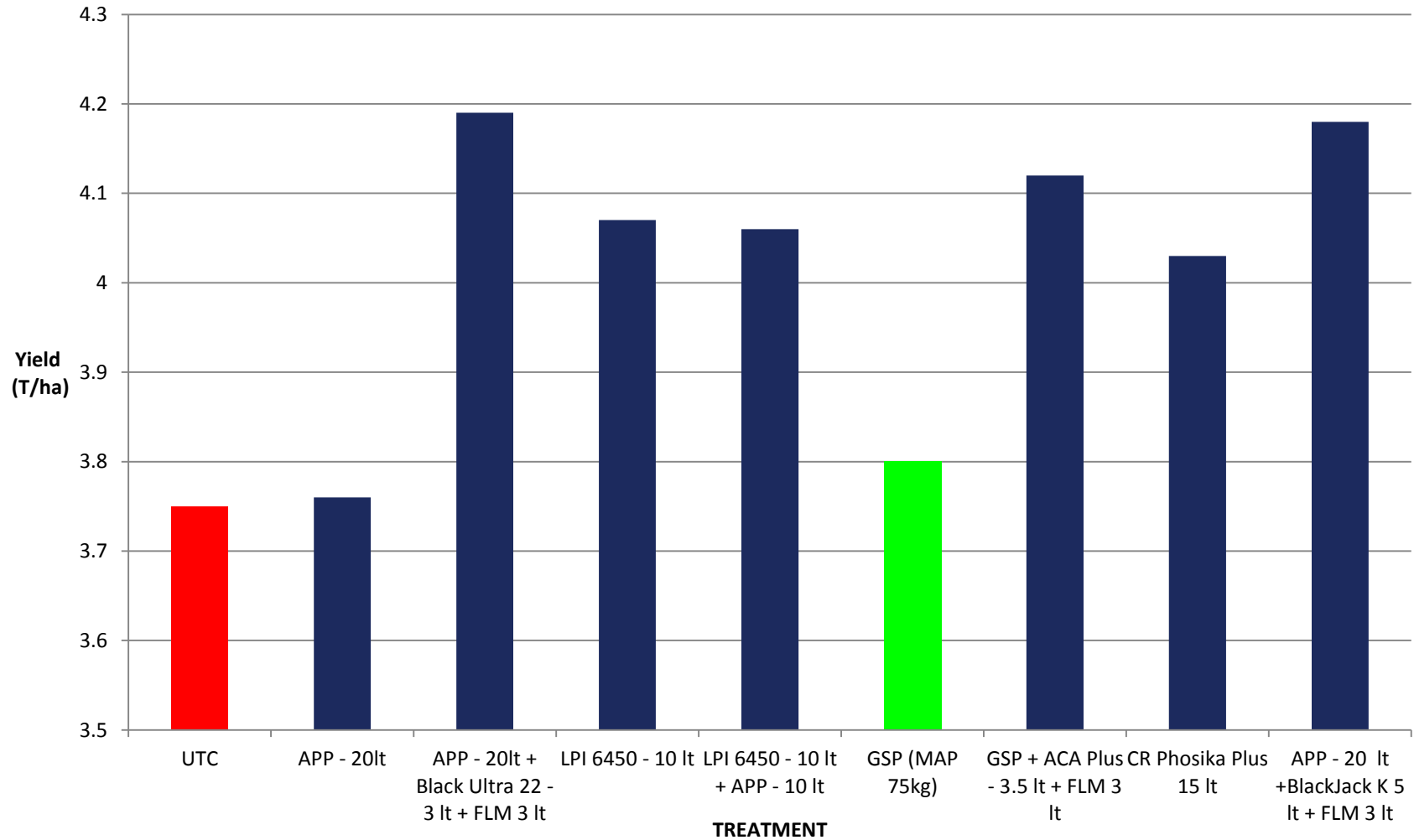


Treatment	Applied Rate lt/ha	Grain Yield t/ha
UTC	-	3.75 c
APP	20	3.76 bc
APP + Black Ultra + FLM	20 + 3 + 3	4.19 a
LPI 6528	10	4.07 abc
LPI 6528 + APP	10 + 10	4.06 abc
GSP = MAP	70 kg	3.80 abc
GSP + ACA + FLM	3.5 + 3	4.12 abc
SJB – CR Phosika Plus	15	4.03 abc
APP + Black Jack K + FLM	20 + 5 + 3	4.18 ab

Yield Statistics:

LSD (P=0.05) = 0.428 CV = 10.72

FABA YIELD

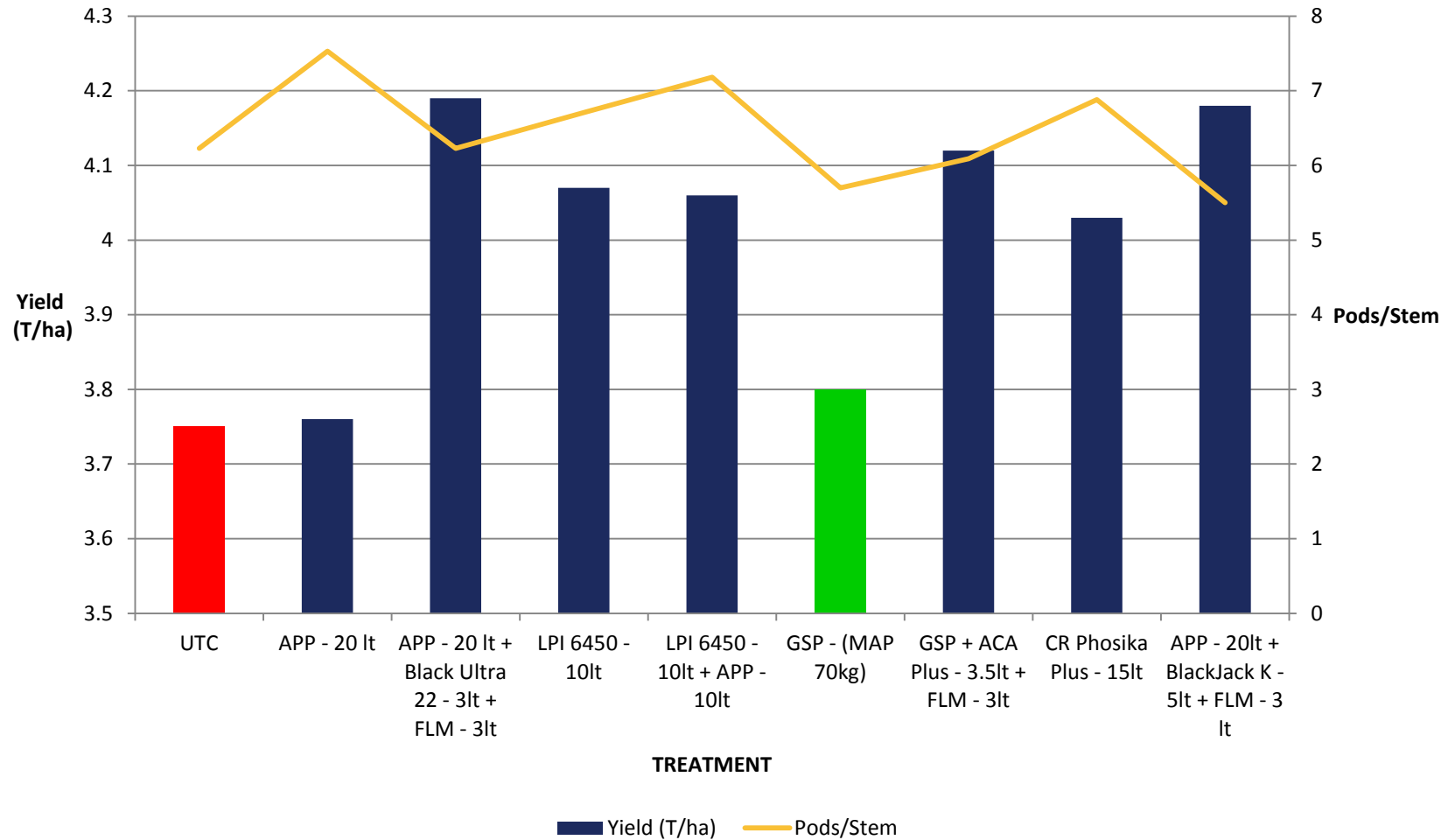


Faba – Stem and Pod counts

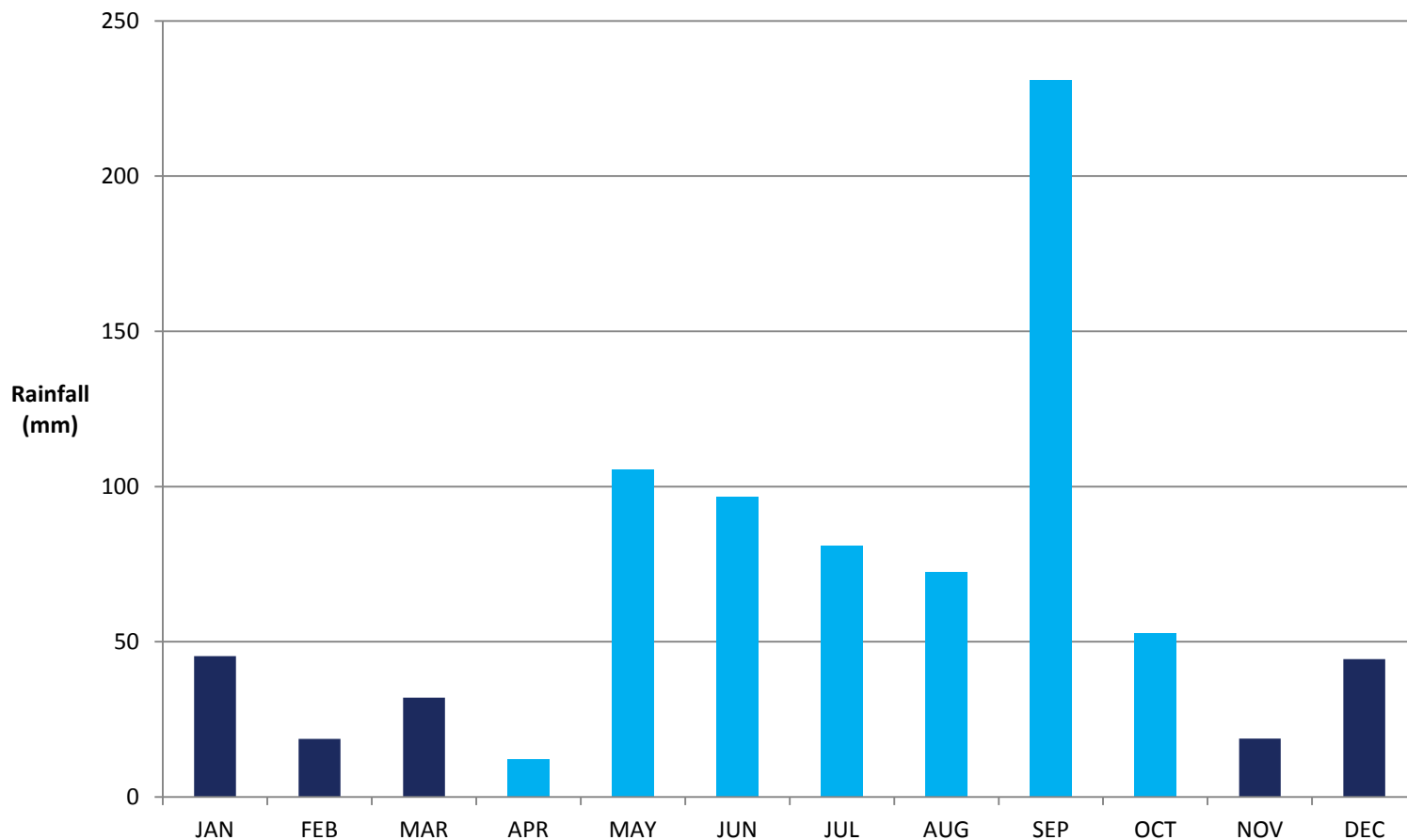


Treatment	Applied Rate lt/ha	Stems /m ²	Pods /m ²	Pods /stem
UTC	-	43.31	269.5	6.23
APP	20	31.23	234.9	7.53
APP + Black Ultra + FLM	20 + 3 + 3	31.47	207.9	6.23
LPI 6528	10	35.56	238.7	6.71
LPI 6528 + APP	10 + 10	29.67	209.6	7.18
GSP = MAP	70 kg	37.01	214.5	5.7
GSP + ACA + FLM	3.5 + 3	37.22	225.5	6.09
SJB – CR Phosika Plus	15	36.75	264	6.88
APP+ Black Jack K + FLM	20 + 5 + 3	38.84	221.1	5.5

YIELD vs PODS/STEM



RAINFALL DATA - TAIC 2016



- **Total for Year:** 810.8 mm
- **Total - April – October:** 651.5 mm

Conclusions

- Yield in this trial ranged from 3.75 T/ha to 4.18 T/ha with a couple of significant figures
- The UTC or no fertilizer yielded 3.75 T/ha, however the addition of MAP (in the GSP) was only 3.80 T/ha and APP 3.76 T/ha
- APP + FLM with the addition of Black Ultra (4.18T/ha) or Black Jack K (4.17 T) were the best two treatments
- GSP (MAP) + FLM with the addition of ACA Plus was not far behind at 4.12 T
- The Untreated had the most pods/m², however 3 treatments had more pods/stem
- **FLM gave the best response in Faba's when a NP source was supplied with K**