



**Loveland**

AGRI PRODUCTS

*Get Growing*

**INVERLEIGH  
LOVELAND NUTRITION  
CANOLA**

KA16-0772

# Trial Design



- Location: Inverleigh, Vic
- Cooperator: Kaylx overseen by Ed Hilsdon
- Plot size – 12m x 1.38m – 4 rows
- Treatments Applied: At sowing

<b>Seeding Date</b>	<b>12<sup>th</sup> May 2016</b>
<b>Site</b>	Inverleigh, Vic
<b>Variety</b>	45T01 – Canola - 3.5 kg/ha
<b>Protocol</b>	<p><b>Pre Sow: 12<sup>th</sup> May</b> – Roundup Ct + Avadex Xtra + Triflur X @ 1.6 + 1.6 + 1.6 lt/ha</p> <p><b>Sowing:</b> Knife point Press wheels – 6 rows on 23cm spacing</p> <p><b>PSPE – 13<sup>th</sup> May</b> – Lorsban + Pyrinex Super @ 1 + 1.5 lt/ha</p> <p><b>Post Emergent: 20<sup>th</sup> June GS12</b>– Gesaprim + Victory + Cletho 240 + Lemat + Hasten @ 1.25 lt + 200ml + 500ml + 100ml + 0.5%w/v</p> <p><b>Post Emergent: 20<sup>th</sup> July GS16</b>– Cletho 240 + Victory + Firepower + Gesaprim 600 + Hasten @ 500ml + 250ml + 50ml + 500ml + 0.75%w/v</p> <p><b>Dessiccation: 22<sup>nd</sup> Nov</b> -Reglone + Spreadwet 1000 @ 3 lt + 0.2% w/v</p>
<b>GSP</b>	<p><b>Sowing fert:</b> MAP at 80 kg (as per protocol only)</p> <p><b>Top Dress fert:</b> 20<sup>th</sup> July – Urea 100 kg/ha</p>

# Soil Test Data

SOIL 0-10 cm	18 <sup>th</sup> April
pH (CaCl <sub>2</sub> )	4.61
eCEC cmol +/-kg	10.52
Calcium (Amm-acet) cmol +/-kg	3.049
Magnesium (Amm-acet) cmol +/-kg	3.1
Exch. Sodium %	9.39

Nitrate nitrogen (KCL) mg/kg	43.3
Ammonium nitrogen (KCl) mg/kg	31.4
Phosphorus (Colwell) mg/kg	77
PBI	91
Potassium (Colwell) mg/kg	352
KCL Sulfur mg/kg	15.8
Copper (DTPA) mg/kg	0.9
Zinc (DTPA) mg/kg	1.01

DEEP N 0-60cm	18 <sup>th</sup> April
Nitrate nitrogen (KCl) mg/kg	10.1
Ammonium nitrogen (KCl) mg/kg	1.8
Available N kg/ha	89.3

# Trial Protocol



Treatment	Treatment	Applied Rate kg/ha
1	MAP	80
2	MAP + Pillar	80 + 15 lt
3	MAP + BLZn	80 + 10 lt
4	MAP + Carb N	80 + 25 lt
5	MAP + Basis	80 + 4 lt/T
6	MAP + Foundation	80 + 5 lt
7	MAP + Foundation	8- + 2.5 lt
8	MAP + LIFT + Foundation	8 + 13 lt + 5 lt

- **Pillar:** applied In-furrow
- **Black Label Zinc** – BLZn – applied In-furrow
- **Carb N** – applied In-furrow
- **Basis** - applied to fertilizer
- **Foundation LM** – applied In-furrow
- **LIFT** \_ applied In-furrow

# Canola Yield and Quality

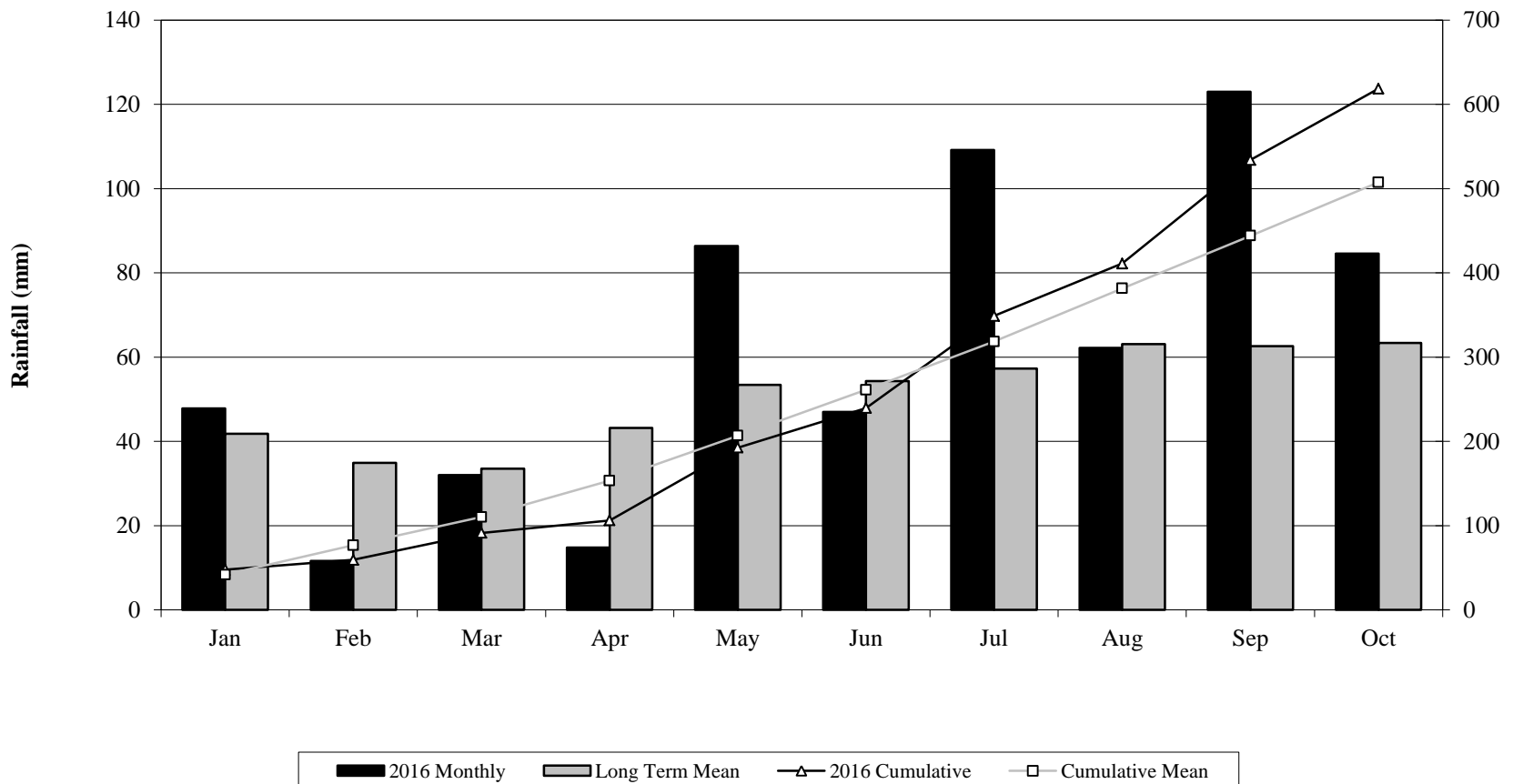


Treatment	Applied Rate kg/ha	Grain Yield t/ha	Oil %	Protein %
MAP	80	0.47	40.2	35.8
MAP + Pillar	80 + 15 lt	0.39	40.7	36.4
MAP + BLZn	80 + 10 lt	0.53	39.8	34.7
MAP + Carb N	80 + 25 lt	0.52	39.5	36.7
MAP + Basis	80 + 4 lt/T	0.91	40.2	36.1
MAP + Foundation	80 + 5 lt	1.03	41.7	35.5
MAP + Foundation	80 + 2.5 lt	0.93	43.5	33.6
MAP + LIFT + Foundation	8 + 13 lt + 5 lt	0.64	40.6	35.7
	<b>LSD (P=0.05)</b>	0.788		
	<b>CV</b>	79.72		

# Rainfall data – from Buckley (Balliwindi station)



2016 vs Long Term (LT) Mean Rainfall



# Conclusions

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- In a low yielding trial both Basis and Foundation LM (FLM) performed better than the control treatment MAP @ 80kg/ha
- Foundation LM at 5 t with MAP has performed well with 560 kg more yield than GSP (MAP)