



***Loveland***

***AGRI PRODUCTS***  
***Get Growing***

**Nitrogen in Canola**  
**Northampton Western Australia**

**LOV16**

# Trial Design



- LOCATION: Northern WA.
- Landmark Contact/ Co-operator: Darren Chitty
- Site - Kojonup

<b>Seeding Date</b>	<b>10<sup>th</sup> May2016</b>
<b>Site</b>	Northhampton WA
<b>Variety</b>	Hyola 404 RR at 3 kg/ha
<b>Protocol</b>	Chemical: IBS, 1kg Propyzamide, 1L Cobalt, Roundup 1.5L
<b>GSP</b>	95 kg/ha Mallee (15N, 12P, 12S) 95 kg/ha Urea (44N) at sowing

# Treatments

Treatment	Timing	Units N	Cost \$/ha
1 Control		59 Kg/ha	
2 10L Max NPact	6 lf	62 Kg/ha	30
3 10L Max NPact + Nutrisync D 365mL	6 lf	62 Kg/ha	43
4 10L Max NPact + Nutrisync D 365mL + 10L Max NPact	Split	65 Kg/ha	73
5 40L UAN + Nutrisync D 365mL	6 lf	76 Kg/ha	34
6 40L UAN	6 lf	76 Kg/ha	21
7 20L Max NPact	Mid flower	65 Kg/ha	60
8 40L UAN + Nutrisync D 365mL (+ 40L UAN)	Split	93 Kg/ha	55
9 80L UAN	Mid flower	93 Kg/ha	42

# Nitrogen in Canola Northampton

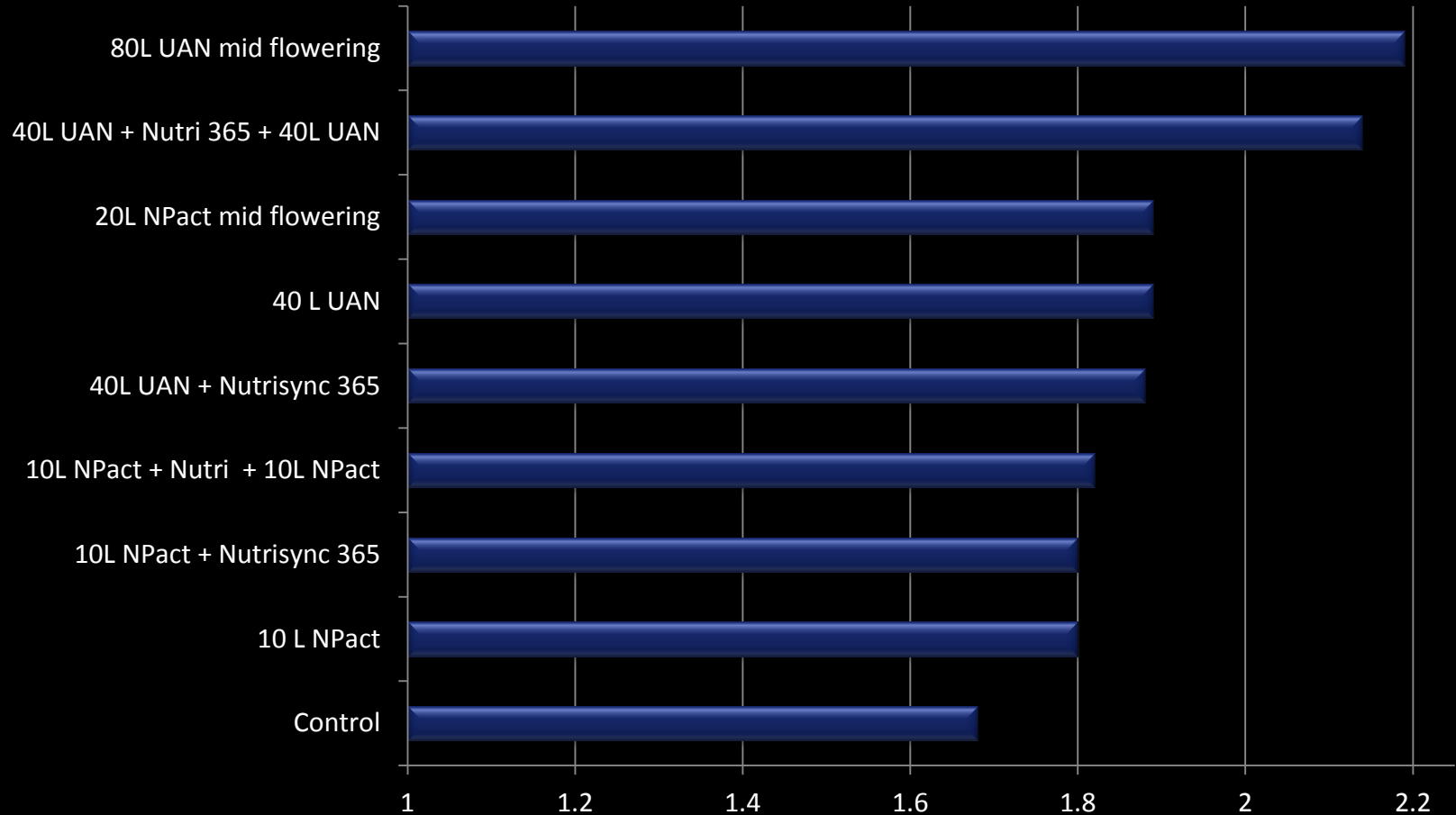


Treatment	Applied Rate lt/ha	Grain Yield t/ha	Stats	Oil %
Control	-	1.68	c	49.7
Maximum N Pact	10	1.8	c	51
Maximum N Pact + Nutrisync M	10 + 365ml	1.8	c	50.9
Maximum N Pact + Nutrisync M + Maximum NPact	10 + 365ml +10	1.82	c	50.8
UAN + Nutrisync M	40 +365ml	1.88	c	51.3
UAN	40	1.89	bc	51.1
Maximum N Pact (mid flowering)	20	1.89	bc	51
UAN + Nutrisync M + UAN	40 + 365ml + 40	2.14	ab	50.9
UAN (mid flowering)	80	2.19	a	51.5
	<b>LSD (P=0.05)</b>	0.253		
	<b>CV</b>	7.68		

# Nitrogen in Canola

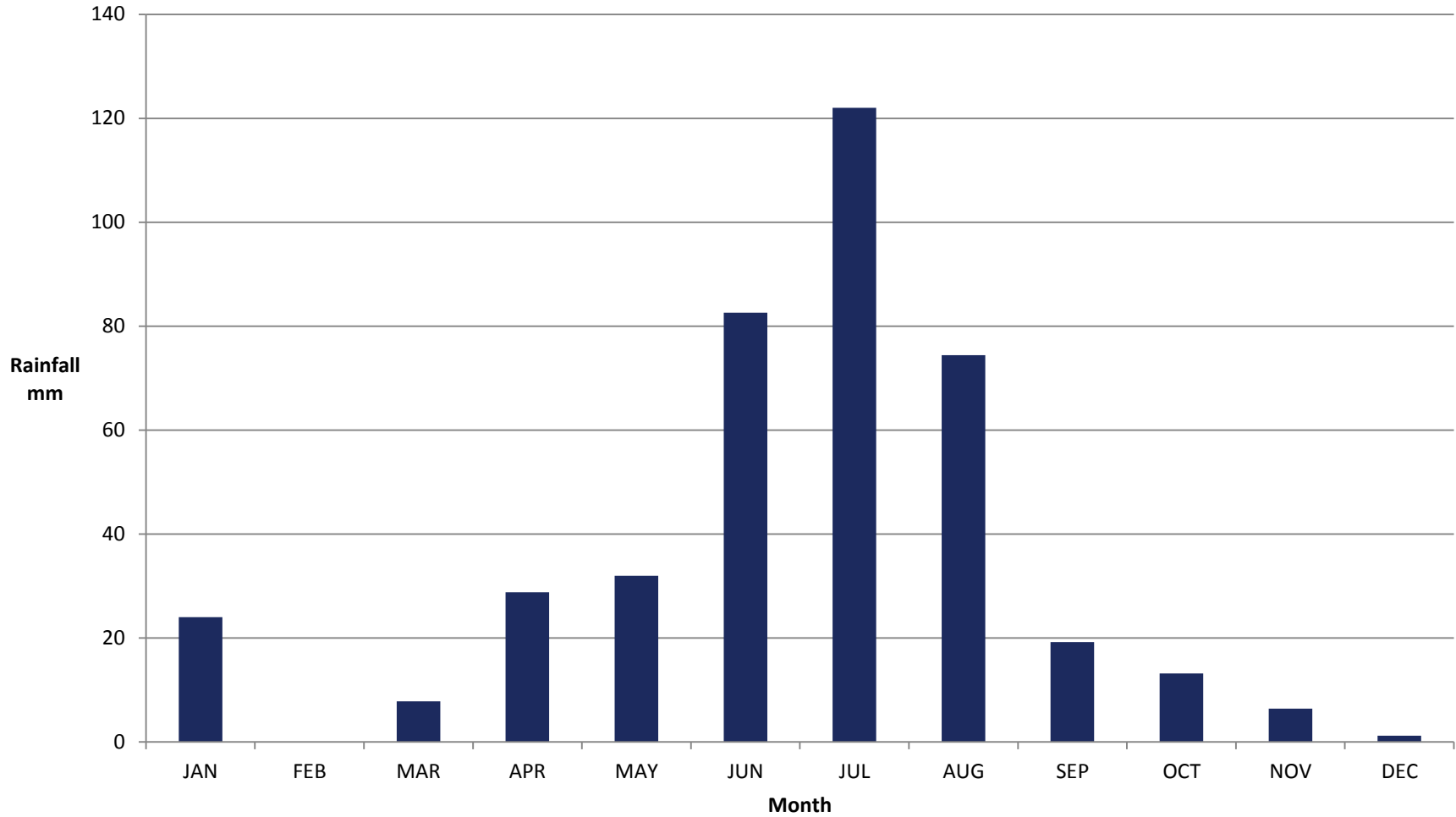


N timing and rates - Northampton



# Northampton WA

## Rainfall 2016 total – 411.16mm



# Conclusion

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- Good growing conditions were experienced at Northampton in 2016 with yields ranging from 1.68-2.19 t/ha despite a late break to the season
- Whilst Maximum N Pact has less units of N than UAN per unit volume, it has better leaf uptake and crop safety than UAN.
- 10 and 20 L/ha of Maximum N Pact has been matched up against 40 and 80 L/ha of UAN. From a yield perspective 20 L/ha of Maximum N Pact gave the same yield as 40 L/ha of UAN at 1.89 t/ha
- No yield penalty was observed from delaying the nitrogen timing from the traditional 6 leaf until mid-flowering (late Prosaro application). All treatments of equivalent nitrogen rates not significantly different