

“Pulse Agronomy Trial Results 2012”

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Key Outcomes:

- Genesis 090 chickpeas yielded significantly higher than PBA Slasher
- There was no significant difference in yield of the three lupin cultivars Gunyidi, Luxor (Albus) and Mandelup
- There was no significant difference in yield of the 5 lentil cultivars grown in the trial

Trial Objectives: To compare grain yields of a range of commercially available pulse varieties and species including Faba Beans, Chickpeas, Lupins, Lentils and Field Peas

Trial Duration: 2012

Location: Navan

Farmer Co-operators: Pat & Mary Connell

Soil Type: Black Cracking Clay

Paddock History: 2010 Wheat
2011 Oats Hay

Monthly Rainfall:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
18	11	55	16	42.5	76.5	38	46.5	29	21.5	4.5	10

Yield Limiting Factors: Dry Spring

Type of Trial: Replicated small plot trial

Trial Design: Randomised Complete Block Design

Treatments:

Five crop species, Faba Beans, Chickpeas, Lupins, Lentils and Field Peas were included in the MNHRZ Pulse Agronomy Trial (See Table 1). All plots were sown on the 12/5/2012 with 80kg/ha Triple Super Phosphate (0:20.7:0:1:15Ca) at the following plant densities:

- Beans: 25 plants/m²
- Chickpeas: 50 plants/m²
- Lupins: 50 plants/m²
- Lentils: 120 plants/m²
- Peas: 50 plants/m²

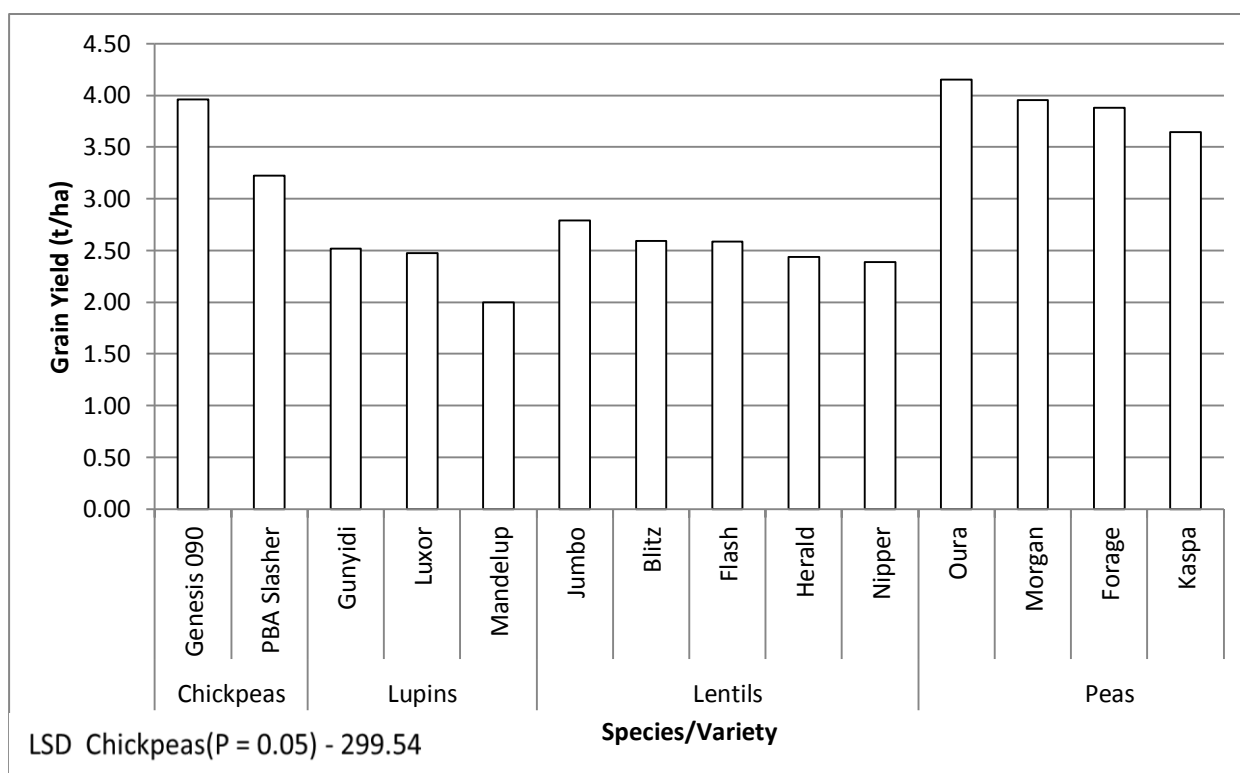
It should be noted that there was an intermittent problem with the spinner of the trial plot seeder through the seeding of the Lentil plots.

Table 1: Pulse species and varieties tested in the MNHRZ Pulse Agronomy Trial, 2012

Faba Beans	Chickpeas	Lupins	Lentils	Peas
Farah	Genesis 090	Gunyidi	Jumbo	Oura
1644	PBA Slasher	Luxor	Blitz	Morgan
Kareema		Mandelup	Flash	Forage
			Herald	Kaspa
			Nipper	

Results:

Graph 1: Average grain yield (t/ha)



Comments:

The only significant difference in this trial was the yield difference between the Genesis 090 Chickpeas and PBA Slasher Chickpeas (see LSD value in graph 1).

Conclusions and into the paddock:

The new lupin variety Gunyidi shows promise, particularly with its improved shattering resistance. It was also impressive in the National Variety Trials for 2012.

Jumbo lentils, while not statistically significant, yielded the highest in the trial compared with Blitz, Flash, Herald and Nipper.

Oura, an erect Dun type released by PBA produced the highest (but not statistically significant) Field Pea yield. Oura is an option for Mid North growers who might suffer severe yield loss from bacterial blight.

Acknowledgements

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