

Trial Name:

Lupin Variety Trial

Trial Number:

37MIG13

Researcher:

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Organization:

Mingenew-Irwin Group

Why do the trial?

This trial was developed to assess and compare the yield and quality of new and current lupin varieties.

Crop management

Grower and Location:

MIG Main Trial Site, Horwoods, Mingeneu

Soil Type:

Yellow Sand

Soil test results:

Depth	PH	EC	Organic Carbon	Ammonium CaCl	Nitrate Nitrogen	Phosphorus Colwell	Potassium Colwell	Sulphur	Aluminium (CaCl ₂)
(cm)	(H ₂ O)	(dS/m)	(%)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
0-10	6.2	0.042	0.58	<1	13	17	48	4.5	0.34
10-20	5.0	0.021	0.21	1	5	16	34	4.6	3.90

Total Annual Rainfall:

369.3

GSR (Apr-Oct):

283.3 mm

Paddock History:

2012

2011

2010

2009

2008

Wheat

Lupins

Wheat

Lupins

Wheat

Trial Average Yield:

2.75 t/ha

Plot size:

2.0m x 20m

Seeding Date:

1st May

Seeding Rate:

110 kg/ha

Seeding Machinery:

DAFWA Small plot cone seeder, Knife points and press wheel

Average Plant Counts:

46 ppm²

Paddock Inputs

Fertiliser

Pre:

80 kg/ha Bigphos + Mn

Post:

Nil

Total Fertiliser Cost:

\$44.24

Herbicide

Pre:

1.5L/ha SpraySeed + 2.0L/ha Simazine

Post:

100ml/ha Brodal + 300ml/ha Simazine 29th May

500ml/ha Select + 1% Hasten 13th June

120ml/ha Brodal + 120g/ha Metribuzin, 25th June

1.0L/ha Select + 1%Hasten, 10th July

Insecticide

Pre:

200ml Talstar + 100ml Dominex

Post:

nil

Key Messages

Table 1.

Variety	Yield t/ha	Plants p/m ²	Protein %	Retuns \$/ha
Barlock	2.98 a	44 b	31.4 d	LUP1 \$919
Gunyidi	2.86 a	54 a	34.0 a	LUP1 \$880
WALAN 2385	2.83 ab	39 b	33.0 b	LUP1 \$873
Coromup	2.67 ab	44 b	34.3 a	LUP1 \$823
Mandelup	2.52 b	46 b	32.4 c	LUP1 \$776
cv%	9.80	6.9	0.6	
I.s.d. 5%	0.26		0.58	

Price Notes: All prices EPR delivered Geraldton, not including delivering and handling charges and GST exclusive. Refer to appendix.

Comments:

- Barlock is available to growers for the first time in 2014 and is suited to most lupin growing areas. It is resistant to Anthracnose, tolerant to metribuzin and has improved resistance to pod shattering.
- Barlock was the highest yielding lupin variety across all MIG trials.
- Gunyidi was the most vigorous variety during the season

- **Acknowledgements:**

Thanks to the Horwood family for the trial site and assistance