Lupin Crop Variety Trial – Buntine

Australian Crop Accreditation System Limited

GRDC Grains Research & Development Corporation
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National Variety Trials

Aim

To evaluate yields and quality of new and existing lupin varieties.

Trial Details

Property	Fitzsimons Property, east Buntine
Plot size & replication	10m x 2m x 3 replications
Soil type	Sandy loam
Soil pH ($CaCl_2$)	0-10cm: 5.3 10-60cm: 5.3
EC (dS/m)	0-10cm: 0.2
Seeding date	02/05/2014
Fertiliser	02/05/2014: 80 kg/ha Big Phos
Herbicides & Insecticides	02/05/2014: 100 L/ha Bifenthrin, 2 L/ha Paraquat + Diquat, 2 L/ha Trifluralin, 1.1 kg/ha Simazine 21/05/2014: 150 mL/ha Diflufenican 11/06/2014: 500 mL/ha Clethodim, 1% Hasten 25/08/2014: 300 mL/ha Alpha-cypermethrin
Growing Season Rainfall	180mm

Results

Table 1: Yield and quality of lupins sown at east Buntine.

Variety Name	Yield (t/ha)	Percentage of Site Mean (%)
Mandelup	0.73	109
PBA Barlock	0.67	100
Coromup	0.65	97
Jenabillup	0.64	95
PBA Gunyidi	0.64	95
Tanjil	0.54	81
Danja	0.54	81
Site Mean (t/ha)	0.67	
CV (%)	14	
Probability	<0.001	
LSD (t/ha)	0.14	21

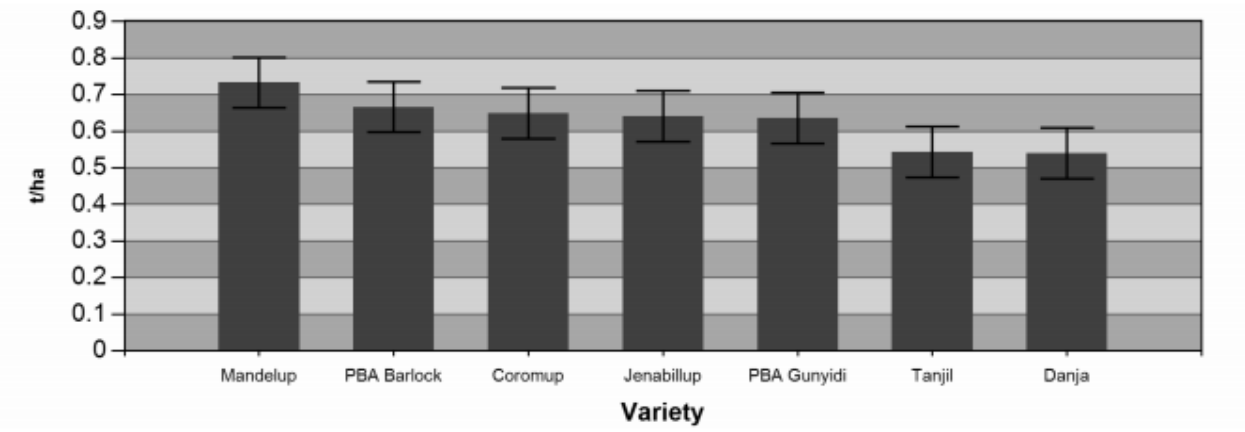

Figure 1: Yield results from lupin varieties sown at Buntine.

Comments

This trial has a high CV of 14% indicating high variability across the trial. Make variety selection decisions using information from multiple trials. The NVT trials are just one source of information on

which growers can base management decisions on retention, release or adoption of new varieties. Growers must use more than one information source when making significant management decisions in relation to cropping varieties.

For more information please refer to www.nvtonline.com.au