

Pulse Demonstration

Aim: This trial was originally established to determine the susceptibility of new chickpea varieties and fungicide treatment against Ascochyta Blight.

However due to herbicide damage the chickpeas weren't harvested, therefore only Lentils and Fenugreek are discussed in this trial.

Research Officer: Mark Ladny
Company: Povers Rural Traders

Farmer: Keith Carter (Liebe site)

Location: 30kms East of Wubin



Background: The trial was conducted to view the tolerance of some of the new desi chickpea varieties against Ascochyta Blight and what control was gained from fungicide treatments. Unfortunately the chickpeas suffered extensive herbicide damage and therefore were not included in the yield results. The Fenugreek and Lentils were placed in the trial so farmers could assess first hand alternative legume crops that may fit into their cropping rotation on heavy country (alkaline).

Trial Details:

Lentils:	Fenugreek:
1 = Digger	3 = Might 150292
2 = Cassab	4 = Power 150262

Trial Details

Plot size and replication	31m x 1.75m x 3 replicates
Soil type	Red Loamy: top soil pH: 6, sub soil pH6.5
Sowing date	23 rd May 2003
Conditions at sowing	Good
Machinery	Cone Seeder, 8 inch spacings, knifepoints, press wheels.
Seeding rate	Lentils 60 kg/Ha Fenugreek 25 kg/Ha: All seed was inoculated accordingly.
Fertiliser	Agflow 80 kg/Ha
Herbicides, Fungicides and Insecticides.	19 th May: Knockdown herbicide application: Glyphosate (450) 750 mL/ha + Hammer® 30 mL/ha + Alpha-Cypermethrin 150 mL/Ha + wetter 0.2% 7 th August: Select® 250 mL/Ha + Alpha-Cypermethrin 150 mL/Ha + 1% crop oil.

Results: Yield, t/ha.

Varieties	Mean yield t/ha
Lentil Digger	0.41
Lentil Cassab	0.43
Fenugreek Might	0.15
Fenugreek Power	0.16

Summary:

- Cassab lentils provided the best yield results, however these results weren't consistent due to herbicide drift. This also applies to the fenugreek varieties as the variety Power is a seed variety as compared to the fodder variety Might. Therefore, you would expect the variety Power to out-yield Might as we have seen in other trial sites.