

# Chickpea Variety X Fungicide Trial

**Aim:** To determine the susceptibility of new chickpea varieties and fungicide treatment against Ascochyta blight.

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**Company:** Povers Rural Traders

**Farmer:** Barry and Kevin Fowler  
**Location:** Coorow



**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. The Fenugreek was placed in the trial so farmers could assess first hand an alternative legume crop that may fit into their cropping rotation.

## Trial Details:

**Chickpeas:**                      **Ascochyta rating**  
 1 = Howzat                      MS                      Fenugreek:  
 2 = Sona 4028                      MS-MR                      5 = Might 150292  
 3 = Heera                      S                      6 = Power 150262  
 4 = Flip 94-508C R

Plot size and replication	Fungicide = 52m X 2.4m Nil Fungicide 57m X 2.4m
Soil type	Red Loamy Clay pH: 6.5
Sowing date	23 <sup>rd</sup> May 2003
Conditions at sowing	Good
Machinery	Combine, full cut on 8 inch spacings
Seeding rate	Chickpeas 100 kg/Ha Fenugreek 25 kg/Ha: P-Pickle-T was applied to Chickpeas and all seed was inoculated accordingly.
Fertiliser	DAP 80 kg/Ha
Herbicides, Fungicides and Insecticides.	19 <sup>th</sup> May: Knockdown herbicide application: Glyphosate (450) 750 mL/ha + Hammer® 30 mL/ha + Alpha-Cypermethrin 150 mL/Ha + wetter 0.2% 29 <sup>th</sup> May: Pre-emergent application: Balance® 100 g/Ha + Simazine 825 g/Ha Fungicide application: Echo® 1 L/Ha – 3 applications throughout the season
Paddock History	2002 = Wheat, 2001 = Wheat, 2000 = Wheat

**Results:** Yield results from applying fungicide in comparison with nil fungicide. Yield is t/ha.

Variety	Nil Fungicide	Fungicide
Fenugreek Might	0.44	0.29
Fenugreek Power	0.50	0.38
Heera	0.32	0.23
Flip	0.73	0.62
Howzat	0.38	0.48
Sona	0.58	0.56

## Summary:

- There appeared to be little difference in yield between applying fungicide and nil fungicide. The slight decrease in yield from having applied fungicide may have been caused from wheel track damage.
- Flip 94-508C offered the best performance, gaining yields of 0.77 t/ha with or with out fungicide.
- Kangaroos enjoyed the trial as much as we enjoyed establishing it, thus the poorer than expected yield results.
- The fenugreek variety Power gave the best yield results as expected as Power is the variety for seed production and Might is a fodder variety.