# Wheat fungicide experiment

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## **Key messages:**

• Seed and fertilizer dressings and in-crop fungicides did not give a response in wheat in a drought year.

• Ventura and H45 yielded better than Diamondbird in 2006.

## Aim:

To assess different fungicide timing and dressings for Stripe Rust control on the yield of a number of wheat varieties.

#### **Method:**

A replicated experiment was established comparing different fungicides and seed or fertilizer dressings for their ability to control Stripe Rust on a number of varieties.

Location: Balldale

**Growing Season Rainfall:** 

Annual: 232 mm GSR: 166 mm

Soil:

Type: Red Chromosol

pH (H<sub>2</sub>0): 4.9

P (Colwell): 42 mg/kg Deep Soil N: 82 kg/ha Sowing Information: Sowing date: 28/6/2006 Fertiliser: 90 kg/ha MAP Row Spacing: 180 mm

Paddock History: 2006 – Wheat 2005 – Wheat

**Plot Size:** 1.5 m x 16 m

Replicates: 4

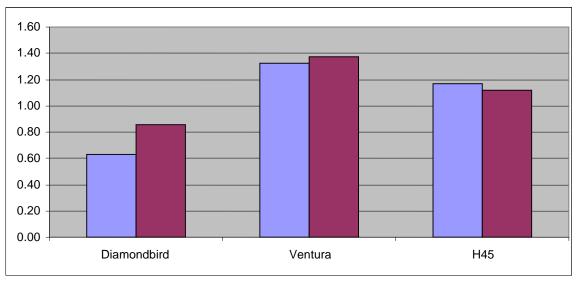
2004 - Canola

#### **Results:**

Table 5: Summary of Yield (t/ha) and Gross Margin (\$/ha over 0N) results

Treatment	Yield (t/ha)	Gross Margin (\$/ha over 0N)
Nil Seed Treatment, Nil Fungicide	0.63	70
Nil Seed Treatment, Fungicide <sup>1</sup> Z31	0.67	75
Nil Seed Treatment, Fungicide <sup>1</sup> Z31 + Z39	0.63	25
Nil Seed Treatment, Fungicide <sup>1</sup> Z39	0.79	110
Nil Seed Treatment, Fungicide <sup>1</sup> Z45	0.78	96
Jockey, Nil Fungicide	0.61	57
Jockey, Fungicide <sup>1</sup> Z31	0.79	100
Jockey, Fungicide <sup>1</sup> Z31+Z39	0.83	99
Jockey, Fungicide <sup>1</sup> Z39	0.79	102
Jockey, Fungicide <sup>1</sup> Z45	0.77	88
Impact, Nil Fungicide	0.80	101
Impact, Fungicide <sup>1</sup> Z31	0.75	84
Impact, Fungicide <sup>1</sup> Z31 + Z39	0.68	48
Impact, Fungicide <sup>1</sup> Z39	0.81	100
Impact, Fungicide <sup>1</sup> Z45	0.80	85
Impact(1.5) <sup>2</sup> , Nil Fungicide	0.86	111
Impact(1.5) <sup>2</sup> , Fungicide <sup>1</sup> Z31+Z39	0.64	30
Impact(1.5) <sup>2</sup> , Fungicide <sup>1</sup> Z39	0.79	93
Triad, Nil Fungicide	0.64	73
Triad, Fungicide <sup>1</sup> Z31	0.73	93
Triad, Fungicide <sup>1</sup> Z31 + Z39	0.79	97
Triad, Fungicide <sup>1</sup> Z39	0.84	126
Triad, Fungicide <sup>1</sup> Z45	0.73	84
H45, Nil Fungicide	1.17	226
H45, Fungicide <sup>1</sup> Z31+Z39	1.12	190
Ventura, Nil Fungicide	1.33	269
Ventura, Fungicide <sup>1</sup> Z31+Z39	1.37	272
LSD (0.05)	0.29	

<sup>1 –</sup> In crop application of Triadimefon applied at growth stage indicated. 2 – Impact applied at 1.5 x recommended rate. Variety is Diamondbird unless otherwise stated. Z – Zadock growth stage.



Blue hatched bar – No added fungicide. Red bar – With Triadimefon fungicide sprays at Z31 and Z39.

Figure 9. Variety Yield (t/ha) Comparison

## **Observations and comments:**

- Fungicides gave little response in the drought conditions of 2006.
- The best yields were achieved by the varieties H45 and Ventura, which both yielded significantly more (60-75%) than Diamondbird.
- Ventura had the best Gross Margin, averaging about \$150-180 /ha above Diamondbird.
- Protein and grain quality (not reported) was good (high protein and low screenings) and not significantly affected by applications of fungicide.

## **Sponsors:**

The Grains Research & Development Corporation, Mr C Cay, Mrs S Cay.