

canola disease

3. Canola Disease

Project collaborators:

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To test selected treatments from the Canola Plus trials on a paddock basis, 2 on-farm demonstration sites were sown in 2005 at Illabo and Cowra.

Aim: To evaluate fungicide control of blackleg and sclerotinia under commercial growing conditions.

Method: Three ~5 ha strips were sown by the co-operators at Illabo and Cowra (Table 3a), consisting of:

- untreated canola seed/fertiliser (UTC)
- Jockey treated canola seed
- Impact treated fertiliser

Treatments at the Cowra site were subsequently split, with half receiving a foliar application of Rovral at (late) flowering to control sclerotinia.

Disease assessments (blackleg and sclerotinia) were undertaken by AgriTech (Table 3b). Yields were determined using header yield monitors (Figure 3a). Samples from each strip were collected for quality analysis.

Results:

Illabo:

- Despite a reduction in blackleg infection (leaf and stem) by both Jockey and to a greater extent Impact, neither treatment showed a yield response.

Cowra:

- Blackleg infection also appeared to be reduced by fungicides at this site, but again with no yield response. There was also no yield response to Rovral for sclerotinia control, although application was late (90% flower rather than the recommended 20-50%), and sclerotinia levels were relatively low.

Acknowledgements: Geoff Dale (Illabo), Lloyd & David Partridge (Cowra), AgriTech Crop Research

Please note: this is unreplicated trial data and is open to sources of paddock variability. Care must be taken when interpreting results.

Table 3a - Site Details

Site Details	Illabo	Cowra
Grower	Warrakirri Pty Ltd	Lloyd & David Partridge
Variety	Spectrum	Beacon
Sowing date	9th May (dry)	11th May (dry)
Sowing rate	2.5kg/ha	1.5kg/ha
Sclerotinia fungicide	NA	7th Oct (~90% flowering - late)

Table 3b - Disease Assessments

Disease monitoring	Illabo	Cowra
Blackleg % stem canker	UTC - 12% Jockey - 6% Impact - 2%	UTC - 10% Jockey - 6% Impact - 2%
Blackleg root rot (score 1-5)	UTC - 2.2 Jockey - 2.3 Impact - 2.7	UTC - 2.6 Jockey - 2.4 Impact - 2.0
Sclerotinia %	8% average	3% in unsprayed 0% in sprayed

Figure 3a - Treatment yields (t/ha)

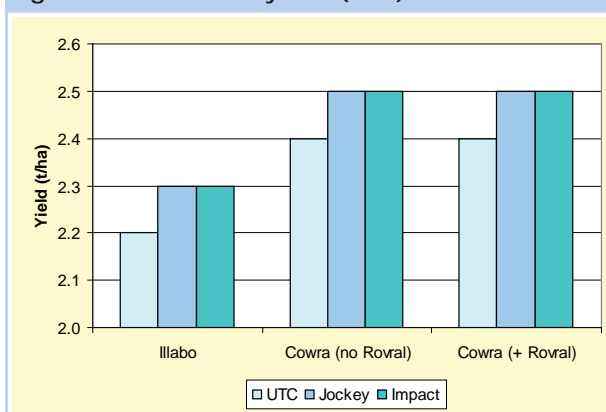


Table 3c - Gross Margins (\$/ha)

Cost	Illabo	Cowra (no Rovral)	Cowra (+ Rovral)
UTC	\$660	\$720	\$640
Jockey (\$1.45/kg)	\$686	\$748	\$668
Impact (\$19/ha)	\$671	\$731	\$651

assuming canola @ \$300/t, Rovral + app'n @ \$80/ha