



# STAYING AHEAD OF BLACKLEG: FOLIAR FUNGICIDES

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# BACKGROUND

- Currently no in-crop management advice available to canola growers.
- Seed dressing (Jockey) gives up to 6 weeks protection.
- Plants infected after the 3<sup>rd</sup>-5<sup>th</sup> leaf stage don't result in stem canker.

# Aim

- To determine if foliar fungicide is effective against blackleg.
- To determine the optimal timing of application.
- To determine likelihood of foliar fungicides providing an economical benefit.



# METHODOLOGY: BLACKLEG NURSERY TRIAL

- Location: Lake Bolac, Vic
- Cultivar: Cobbler (MS)
- Treatments: Flutriafol (Impact) on bare and Jockey treated seed - (400ml/ha)

## Treatments

No fungicide control

Jockey only

Foliar fungicide at 4 leaf stage

Foliar fungicide at 6 leaf stage

Foliar fungicide at 8 leaf stage

Foliar fungicide at 4 & 6 leaf stage

Foliar fungicide at 4 & 8 leaf stage

Foliar fungicide at 4, 6 & 8 leaf stage

Jockey & foliar fungicide at 4 leaf stage

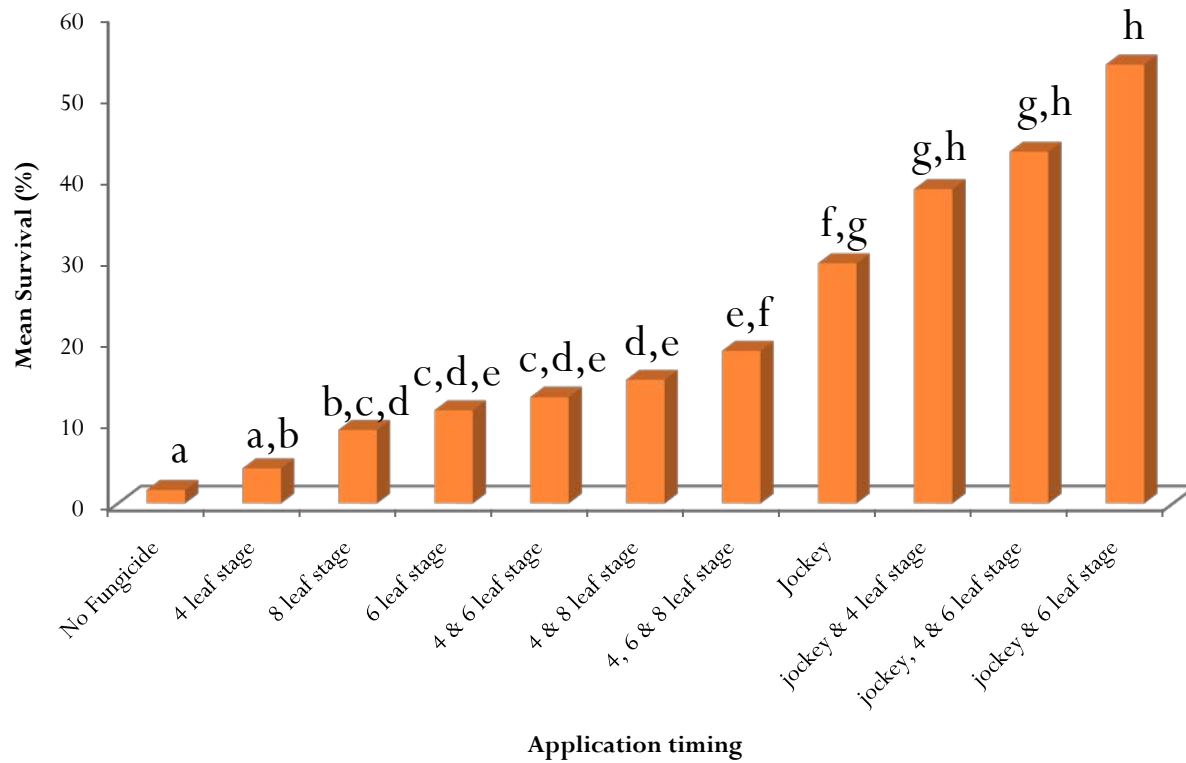
Jockey & foliar fungicide at 6 leaf stage

Jockey & foliar fungicide at 4 & 6 leaf stage



# RESULTS: BLACKLEG NURSERY TRIAL

## ○ Lake Bolac



## CONCLUSIONS: BLACKLEG NURSERY TRIAL

- The use of flutriafol as a foliar fungicide significantly increased plant survival compared to the nil treatment.
- The use of flutriafol alone is not as effective as the use of Jockey alone.
- The use of a foliar fungicide at the 6 leaf growth stage as well as a seed dressing can increase the protection currently given to canola crops.
- We don't know when the application of foliar fungicide will be economically viable.



# METHODOLOGY: YIELD TRIAL

- Location: Keith, SA
- Cultivars: 44C79CL (MS) and 44Y84CL (MR-MS)
- Treatments: Prosaro on bare and Jockey treated seed

## Treatments

No fungicide control

Jockey only

Prosaro at 4-6 leaf stage

Prosaro at 8-10 leaf stage

Prosaro at 4-6 & 8-10 leaf stage

Jockey & Prosaro at 4-6 leaf stage

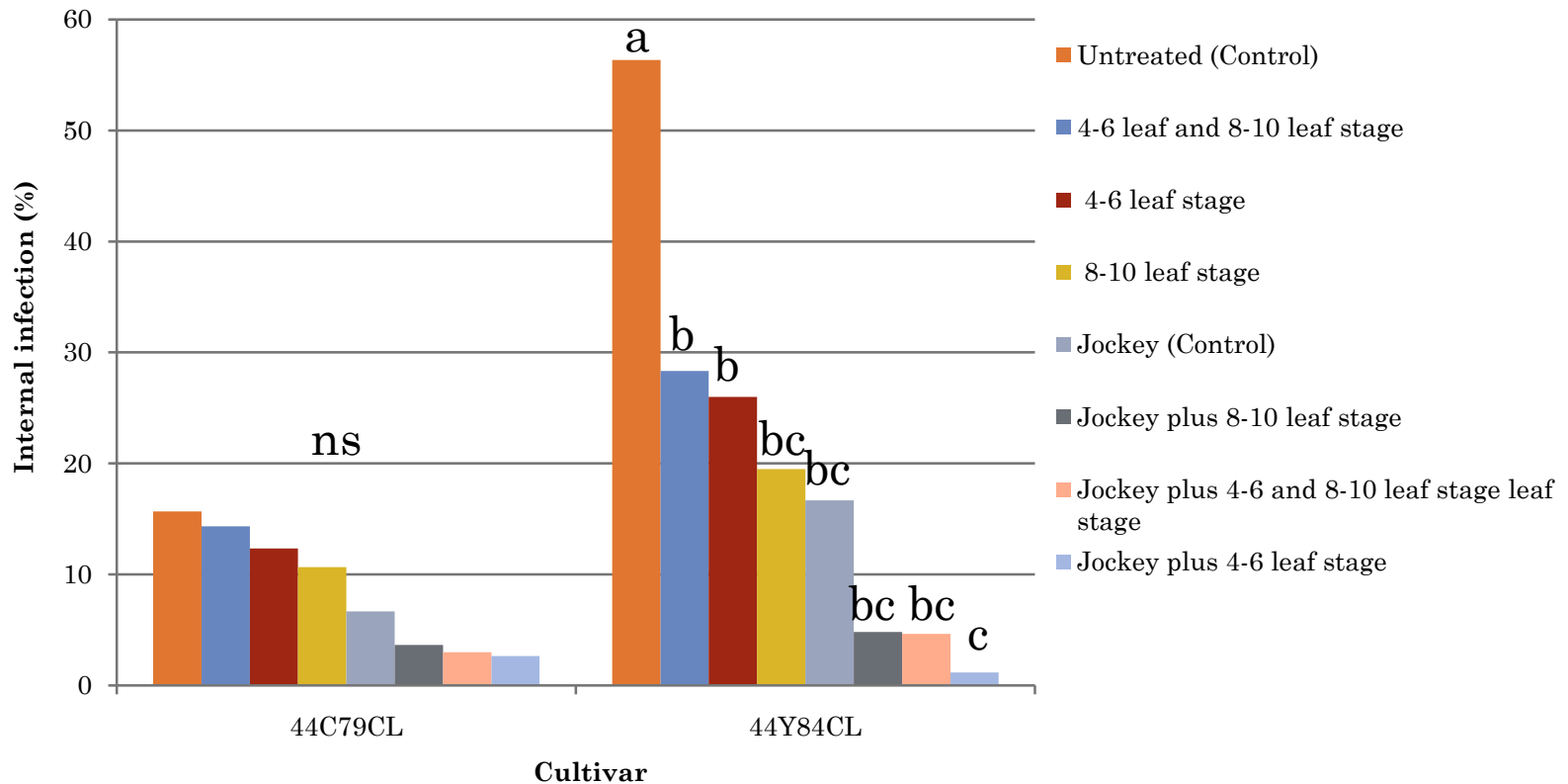
Jockey & Prosaro at 8-10 leaf stage

Jockey & Prosaro at 4-6 & 8-10 leaf stage

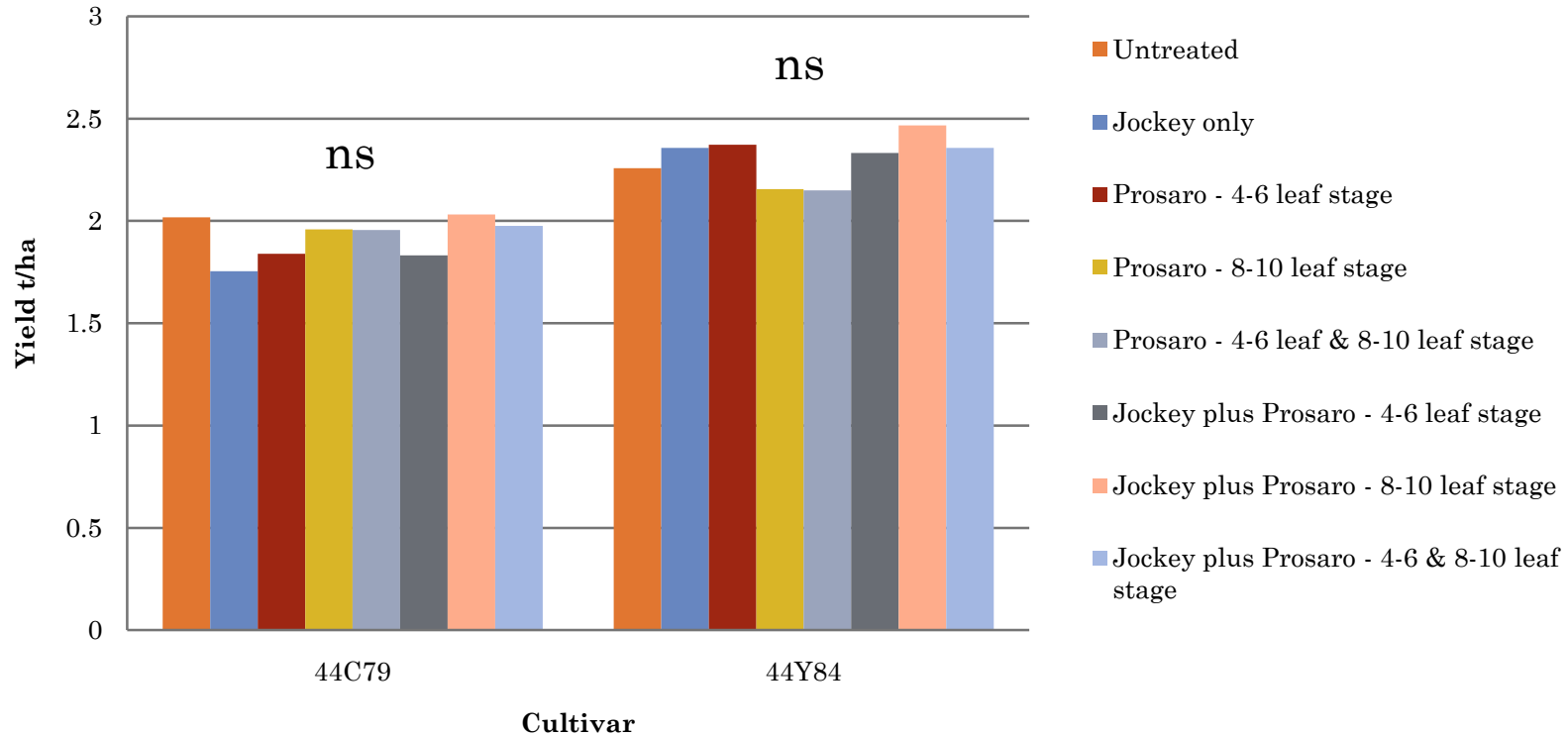
- Data collection: internal infection (%) and yield



# PROSARO – KEITH(SA) – INTERNAL INFECTION



# PROSARO – KEITH(SA) – YIELD





# 2010 LOWER EP FUNGICIDE EXPERIMENT

- Location
  - Wangary
- Cultivars
  - Stubby (VS)
  - AV Garnet (MR)
  - Hyola 50 (R)
- Treatments
  - Jockey
  - Prosaro (foliar)
  - Jockey & Prosaro (Wangary only)



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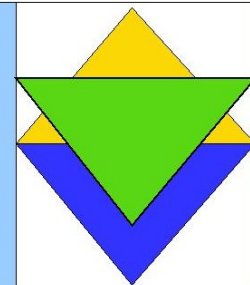


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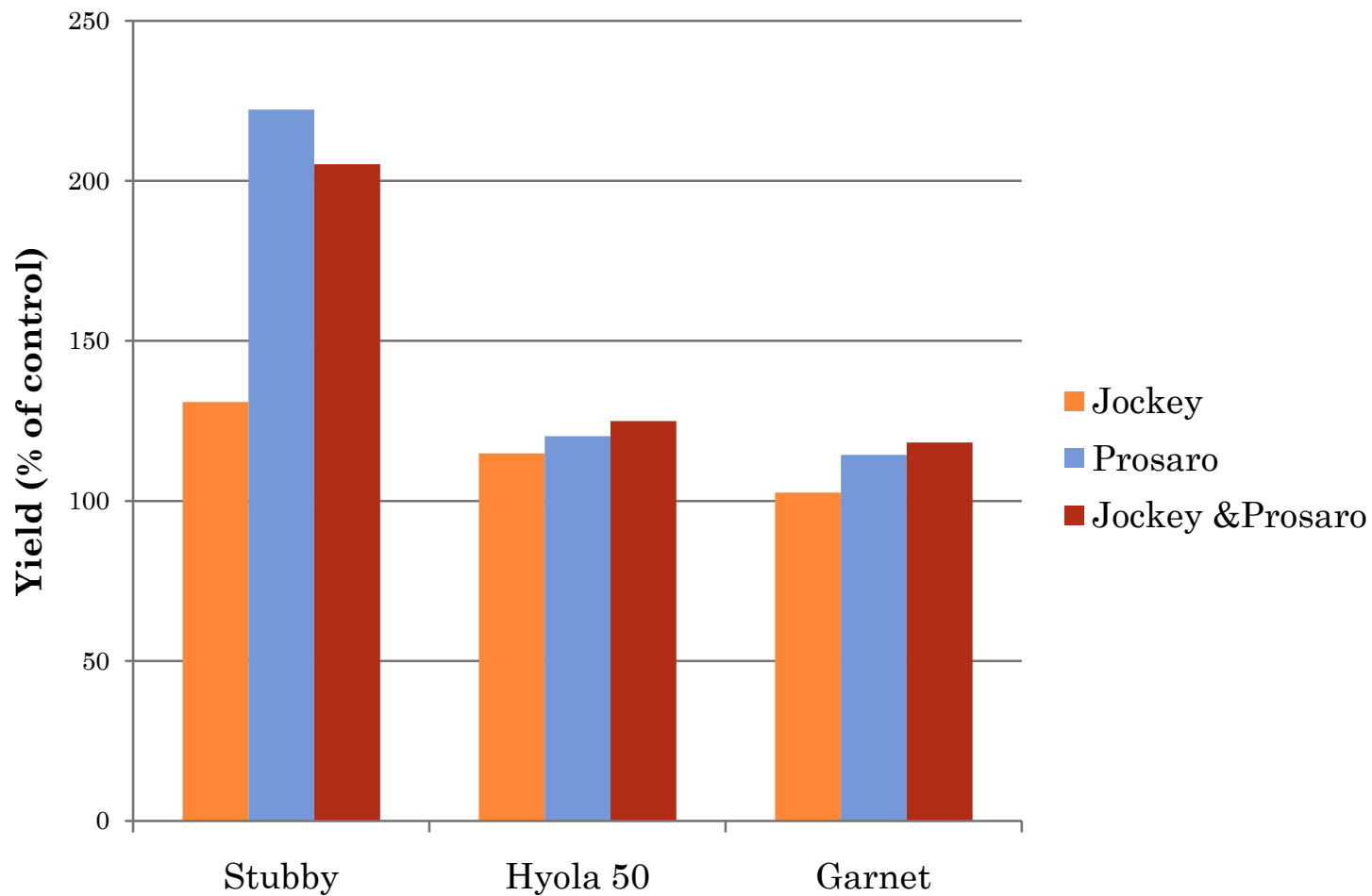
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# 2010 LOWER EP FUNGICIDE EXPERIMENT



# CONCLUSIONS

- The use of foliar fungicide alone is not as effective as the use of Jockey.
- The use of a foliar fungicide at the 6 or later leaf growth stage as well as a seed dressing can increase the protection currently given to canola crops.
- Prosaro will be registered for use in canola against blackleg in 2012



# POINTS FOR DISCUSSION

- Jockey, Impact and Prosaro are all in the same chemical group.
- We need to be able to give growers advice on how to determine which situations could benefit from a foliar fungicide.
- As well as how to determine if a foliar fungicide is warranted in a particular growing season.

