

Outline

- National disease round up
 - Western Australia
 - South Australia
 - Victoria
 - New South Wales
- New Threats
 - Cankers in branches
 - Canola virus in northern NSW

Western Australia

- Moderate levels of blackleg in the southern and south coastal
- · Moderate incidence of downy mildew and white leaf spot
- Low levels of Sclerotinia across the northern region but a few crops in the southern region had moderate levels of stem rot
- Low to moderate levels of charcoal rot detected in the northern and central regions
- No club root or Rhizoctonia hypocotyl rot observed in 2013
- No major virus issues

South Australia

- White rust above average observations made across SA emergence to 4 leaf

 - disappeared quickly after that.
- Blackleg about average observations across SA
 - higher levels than seen previously in the SA Mallee possibly due to higher canola intensity than seen previously in this region.
- Sclerotinia Some significant observations in the South East region (Millicent) only
- Stubby Root Nematode (Paratrichodorus spp.)
 - New pathogen, discovered on Lower EP

Victoria

- Blackleg resistance of most cultivars was good.
- Concerns with CrusherTT and AV-Garnet which are being widely grown as retained seed.
- Increasing level of Group D infection in western district.
- Resistance groups being considered in 2013 plantings.

Victoria

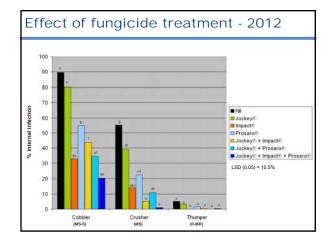
- Other diseases not an issue in 2012.
 - Late break dry spring = crops grew on stored moisture, not conducive for disease.
- Some sclerotinia in North east same as NSW.
- Some alternaria infection on pods.
- Fungicide use against blackleg very effective.

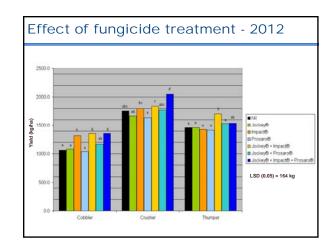
New South Wales

- Good opening rains crops planted on time
 - Dry autumn \rightarrow early winter
 - delayed spore release → reduced levels of blackleg canker
 - No concerns with blackleg resistance
- Below average rainfall generally kept foliar disease levels low
 - Crops grew on stored moisture from March
 - Good rains in late October/early November

New South Wales

- Concerns with longevity of wheat/canola rotation
 - Grower retained Crusher TT, Garnet, Gem
 - Most crops grown with fungicide seed dressing and amended fertiliser
 - Some reports of widespread Prosaro use on crops in some districts
- · High levels of interest in rotation groups
 - Dispel confusion over what groups mean
 - Keep messages simple





Sclerotinia in 2012

- Epidemics of sclerotinia developed in districts with a mild, late finish and extended flowering period.
- Infection levels of up to 70% were measured in some crops in southern NSW.
- Paddocks on a wheat/canola rotation appeared to be the worst affected
- Basal infection levels also appeared to be worse in paddocks with a tight canola rotation suggesting increasing levels of sclerotia.







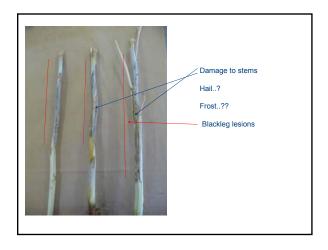
- Basal infection of canola plants by Sclerotinia
- Caused by direct infection of plants by sclerotia in soil.
- Increased levels of this type of infection were observed in crops in 2012, up to 30%.
- Formation of sclerotes in tap root and crown of plant

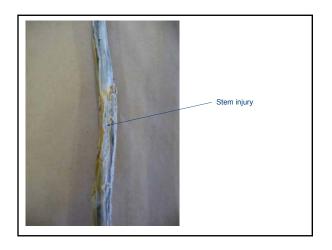
Cankers in branches

- Reports of 'blackleg like' stem lesions in canola crops in southern NSW
 - Noticed following windrowing
 - Across all varieties
 - Across a number of districts (Temora, Junee, Wagga Wagga and Lockhart)
- Similar to reports of cankers in branches from 2010 crops
 - South Australia & Victoria

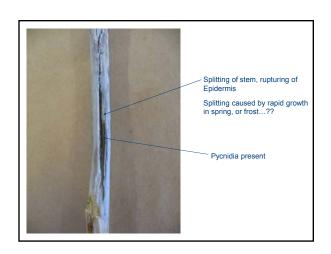


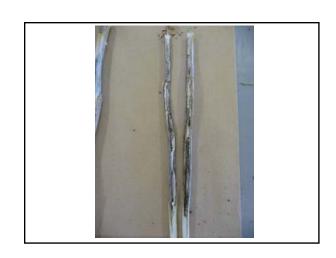


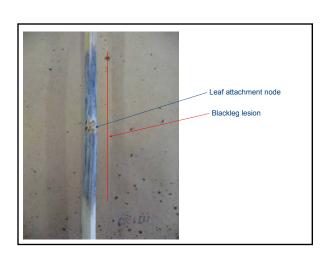


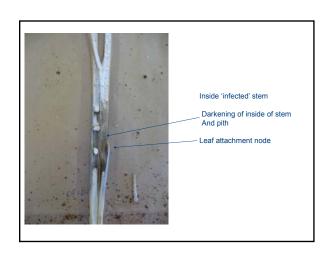




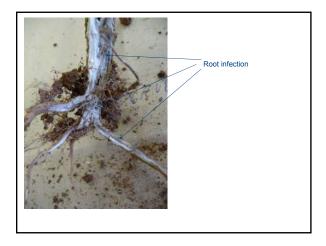












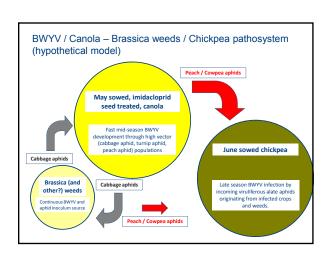


Canola virus pilot project 2013

Background

- Canola industry in the northern grain region has changed considerably over the last decade.
 - Little recent local information on the virus (or disease) situation in canola.
- Large number of varieties released with unknown virus susceptibilities.
- Beet western yellows virus (BWYV) reported to induce substantial losses after early infection.
- Imidacloprid seed treatment will offer protection (not complete) against early virus infection, but not for late infection.
- Turnip mosaic virus (TuMV), a non-persistently transmitted and highly destructive virus found in canola. Imidacloprid treatment does not protect against non-persistently transmitted viruses.
- Possible interaction between viruses in canola and other crops, particularly chickpea.





Canola virus pilot project 2013

Planned Activities

- Screening of canola varieties for BWYV resistance in the Liverpool Plains Field Station.
 - Current varieties.
 - Lines in NVT trials.
 - Lines identified in WA with contrasting levels of BWYV resistance.
- Screening of canola varieties for TuMV resistance in the Liverpool Plains Field Station and in the Tamworth greenhouse.
- Monitoring virus development in canola through the season in selected sites
- Survey of canola and neighbouring pulse crops for viruses.

