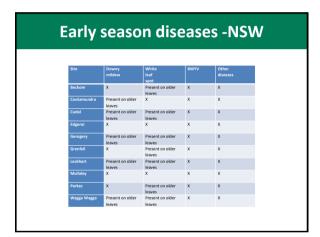


### Early - mid season disease monitoring

### **Protocol**

- All blackleg monitoring sites
- Commercial crops
- For general disease monitoring from trials, disease assessments were made on 20-50 randomly selected plants (non-destructive sampling)
- From commercial crops samples were taken along a 250m transect





# Early season diseases -SA

- Low levels of downy mildew at 2 sites
- Moderate levels of white leaf spot at 3 sites

# Early season diseases - HRZ NSW

Downy mildew and white leaf spot at low levels

# **WA Disease monitoring activity**

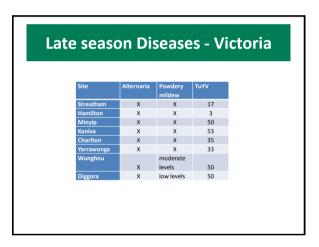
- Early season monitoring A total of 37 samples
- Downy mildew
  - Percentage samples affected = 63%
  - Average incidence 36%, Range 0-100%
- White leaf spot
  - Detected only in two samples at low levels
- Other diseases
  - none

Early season diseases WA (blackleg monitoring sites)		
Site	Downy mildew	White leaf spot
Dandaragan	Low levels	Х
Corrigin	Low levels	Х
Williams	moderate	Х
Katanning	moderate	Х
Kojonup	moderate	X
Kendenup	moderate	Х
South Stirlings	moderate	Х
Gibson	low	х

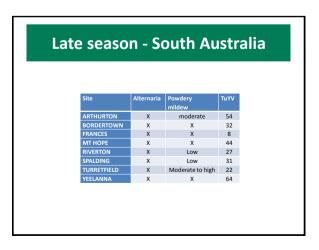
### Late season disease monitoring

#### **Protocol**

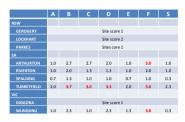
- Sampling protocol similar to the one used for monitoring seedling diseases.
- Sampled at or close to swathing. A total of 40 or 100 plants were collected for each sample.



# Site Alternaria Powdery mildew Beckom X X Cootamundra X X Cudal Trace X Edgerol na X Gerogery low level, more in Groups B & C I Lockhart moderate I Lockhart moderate Mullaley X X Parkes X Iow levels Wagga Wagga X X



# Powdery mildew severity in blackleg resistance groups



## Late season monitoring WA

- Observed in 62 samples
- No Alternaria
- · No club root
- · No powdery mildew
- TuYV detected at Corrigin, Kendenup, Kojonup and Williams

### 2014 Summary

### Major other disease issues

- · Early season
  - Downy mildew
  - Western Australia
  - TuYV
  - High levels in SA
- Late season
  - TuYV
  - High levels in SA, NSW and Victoria

# 2013 vs 2014 disease comparisons

- 2013
- Downy mildew
  - Vic and WA
- WLS
  - Mic
- Alternaria pod spot
  - Vic, WA and SA
- TuYV
  - Low levels in all states
- 2014
- Downy mildew
  - WA
- WLS
  - Not a serious issue
- Alternaria pod spot
  - Not a serious issue
- TuYV
  - High levels in SA, NSW and Vic, low levels in WA

# Achievements and Future research activities

- A review on other canola diseases submitted to GRDC
- GRDC tender, 'Other foliar diseases of canola'
- · Continue monitoring activity
- Investigate the disease impact upon canola production
- Control measures