

# Cereal Rust Report

2014

VOLUME 12 ISSUE 2

24<sup>th</sup> July



## Cereal rust situation update, July 2014

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Samples received by the Australian Cereal Rust Survey at the Plant Breeding Institute in the last two weeks indicate that inoculum levels of wheat stripe rust and oat crown rust are increasing in eastern Australia. Barley leaf rust has been reported across the southern section of the Western Australian grain belt and the first sample of barley leaf rust in the eastern states has been received from NSW. Where known, details of current pathotypes and localities are provided below.

#### First samples of wheat stripe rust

The first samples of wheat stripe rust were received on the 17<sup>th</sup> July from Boree Creek in NSW. Infection was sampled from crops of both Wedgetail and Suntop. Since then, samples have since been received from Tarcutta off infected Marombi and from Wagga Wagga.

#### Wheat leaf rust reported in South Australia and northern NSW

Samples of wheat leaf rust received in May were determined to be pathotype 76-3,5,7,9,10,12,13 +Lr37 from Quirindi in northern NSW and 76-3,5,7,9,10,12 +Lr37 from Wharminda in South Australia. On the 19<sup>th</sup> June, a sample was received from a Naparoo crop near Scone in NSW.

#### Barley leaf rust reported from western and eastern Australia

The sample of barley leaf rust received from South Stirling in Western Australia in April was determined to be pathotype 5457P- and the sample from Woogenellup in May was determined to be a mixed

infection of pathotypes 5457P- and 5453P+. Samples have since been received on the 22<sup>nd</sup> July from Kojaneerup South in Western Australia. The samples were from crops of Baudin, La Trobe and Bass.

The first sample of barley leaf rust from eastern Australia was received on the 15<sup>th</sup> July off Hindmarsh regrowth near Old Junee in NSW.

#### Stem rust on barley reported

The sample of stem rust received from a crop of Shepherd barley on the 30<sup>th</sup> April 2014 was determined to be an isolate of the hybrid (wheat stem rust  $\times$  rye stem rust) scabrum rust with added virulence for resistance gene Sr21.

#### Oat stem and crown rust

The sample of oat stem rust received from Canowindra in NSW on the 25<sup>th</sup> May was pathotype 30-1,2. On the 23<sup>rd</sup> June a sample of oat stem rust was received from Jamestown in South Australia. The samples were taken from crops of Yallara and Wallaroo.

The oat crown rust sampled on wild oats near Eugowra in NSW in May was determined to be pathotype 0001-0. Since then samples have been received from Godfreys Creek in NSW on the 15<sup>th</sup> July

and Yass on the 23<sup>rd</sup> July. The sample from Yass was collected from Eurabbie and Bimbil.

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### GENERAL ENQUIRIES

Plant Breeding Institute  
Private Bag 4011,  
Narellan NSW 2567  
  
107 Cobbitty Road  
Cobbitty NSW 2570  
T 02-9351 8800 (Reception)  
F 02-9351 8875

### RUSTED PLANT SAMPLES

can be mailed in paper envelopes;  
do not use plastic wrapping or plastic  
lined packages. If possible, include the  
latitude and longitude of the sample  
location.

Direct samples to:  
Australian Cereal Rust Survey  
Plant Breeding Institute  
Private Bag 4011, Narellan NSW 2567

The Australian Cereal Rust Control Program is supported by growers through the Grains Research & Development Corporation.

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