CEREAL RUST BULLETIN

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Issued by:

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- Wheat stem rust was found in Texas, Minnesota and South Dakota..
- Wheat leaf rust levels are increasing in the north central U.S.
- Wheat stripe rust was found in the northern Great Plains and was increasing in the Pacific Northwest.
- Barley leaf rust was found in Wisconsin and New York
- Oat crown rust is increasing in the northern U.S. oat growing area.

Wheat Stem Rust

Texas – In mid-June, a significant amount of stem rust was observed on the susceptible varieties Winterhawk, Bill Brown, HG9, Winmaster and Weathermaster 135 in the irrigated nursery at Bushland in the panhandle of Texas. The wheat is mature and drying down and harvest will begin this week. (For more detailed information see: Texas reports on the Current Cereal Rust Situation Reports page).

Minnesota – On June 18, traces of stem rust were found in a winter wheat plot at the Rosemount Experiment Station in southern Minnesota.

South Dakota – Stem rust was observed at trace-low levels in winter wheat plots at Brookings.

From stem rust collections made in late May in north central Oklahoma race QFCSC has been identified. This race is relatively avirulent - the majority of the U.S. cultivars are resistant.

Stem rust observation maps can be found on the CDL website **(http://www.ars.usda.gov/Main/docs.htm?docid=9757).**

Wheat Leaf Rust

Nebraska – In mid-June, leaf rust was increasing in southern Nebraska.

Minnesota – In mid-June, high levels of leaf rust were found in susceptible winter wheat plots in southern Minnesota while low levels were found in winter wheat plots in west central Minnesota.

South Dakota – Leaf rust was observed at trace-low levels in winter wheat plots at Brookings.

North Dakota – On June 17, low levels of leaf rust were found in winter wheat plots in Sargent County in southeast North Dakota. This was the first report of leaf rust in North Dakota in 2010. Leaf rust was not observed in the spring wheat. (For more detailed information see: North Dakota reports on the Current Cereal Rust Situation Reports page).

Illinois– In mid-June, moderate levels of leaf rust were observed in fields of susceptible varieties in southern Illinois. Most of the wheat was near maturity.

Ohio – In mid-June, wheat at the soft dough growth stage had leaf rust severity of 20% in west central Ohio fields.

Wisconsin - In mid-June, high levels of leaf rust were observed in soft red winter wheat plots while low levels were found in fields in southern Wisconsin.

New York – In mid-June, wheat fields had leaf rust severities of trace to 10% on the flag leaf throughout the state. (For more detailed information see: New York reports on the Current Cereal Rust Situation Reports page).

Washington – In mid-June, winter wheat fields had 1-40% leaf rust severities in Franklin County in southeastern Washington. Leaf rust losses were limited since the crop was near maturity.

Canada – In mid-June, low levels of leaf rust were found throughout southwestern Ontario. In mid-June, leaf rust was found in Southern Manitoba on spring wheat. (For more detailed information see: Canadian reports on the Current Cereal Rust Situation Reports page).

Wheat Stripe Rust

Nebraska – In mid-June, the predominant wheat disease in southern Nebraska was stripe rust. Stripe rust severity levels were high (greater than 70%) in susceptible varieties and breeding lines. (For more detailed information see: Nebraska reports on the Current Cereal Rust Situation Reports page).

South Dakota – In mid-June, low levels of stripe rust were found in plots at Brookings in eastern South Dakota and increasing slowly in some fields in western South Dakota.

North Dakota – In mid-June, wheat stripe rust was reported at low levels in winter and spring wheat in southern and northeastern North Dakota. (For more detailed information see: North Dakota reports on the Current Cereal Rust Situation Reports page).

Minnesota – Low levels of stripe rust were observed in winter wheat plots in east central Minnesota.

Pacific Northwest

Washington – By mid-June, stripe rust was found throughout most areas of the Pacific Northwest. Fungicide application for stripe rust control on the winter wheat crop has almost reached the end date and now has started on the spring wheat crop. This is the critical time for fungicide application on the spring wheat crop. A highly susceptible crop of either winter or spring wheat easily could have yield loss of more than 60%. Head infection by stripe rust is common this year. Damage by head

infection is relatively low compared to leaf infection. (For more detailed information see: Washington stripe rust report on the Current Cereal Rust Situation Reports page).

Idaho - Wheat stripe rust has appeared very late in southern Idaho plots and fields.

Canada - Wheat stripe rust was reported on winter wheat at Woodstock in Ontario and on spring wheat in southern Manitoba, Canada.

Oat Stem Rust – Stem rust observation maps can be found on the CDL website **(http://www.ars.usda.gov/Main/docs.htm?docid=9757).**

Oat Crown Rust – In mid-June, oat crown rust levels were low in fields and plots in southern Wisconsin and eastern South Dakota plots.

Barley Leaf Rust – In mid-June high levels of barley leaf rust were observed in winter barley plots at the Arlington research station in south central Wisconsin. On June 18, traces of barley leaf rust were observed in an Ithaca, New York plot.

Barley Stripe Rust – In mid-June, barley stripe rust levels were low in fields and plots in eastern Washington.

Barley Stem Rust – In mid-June, the first report of barley stem rust this year was in a plot at Lincoln, Nebraska.

Rye Leaf Rust – On June 17, severe levels of leaf rust were found in winter rye fields in Iowa County in southwestern Wisconsin.

Fig. 1. Leaf rust severities in wheat fields and plots - June 22 , 2010

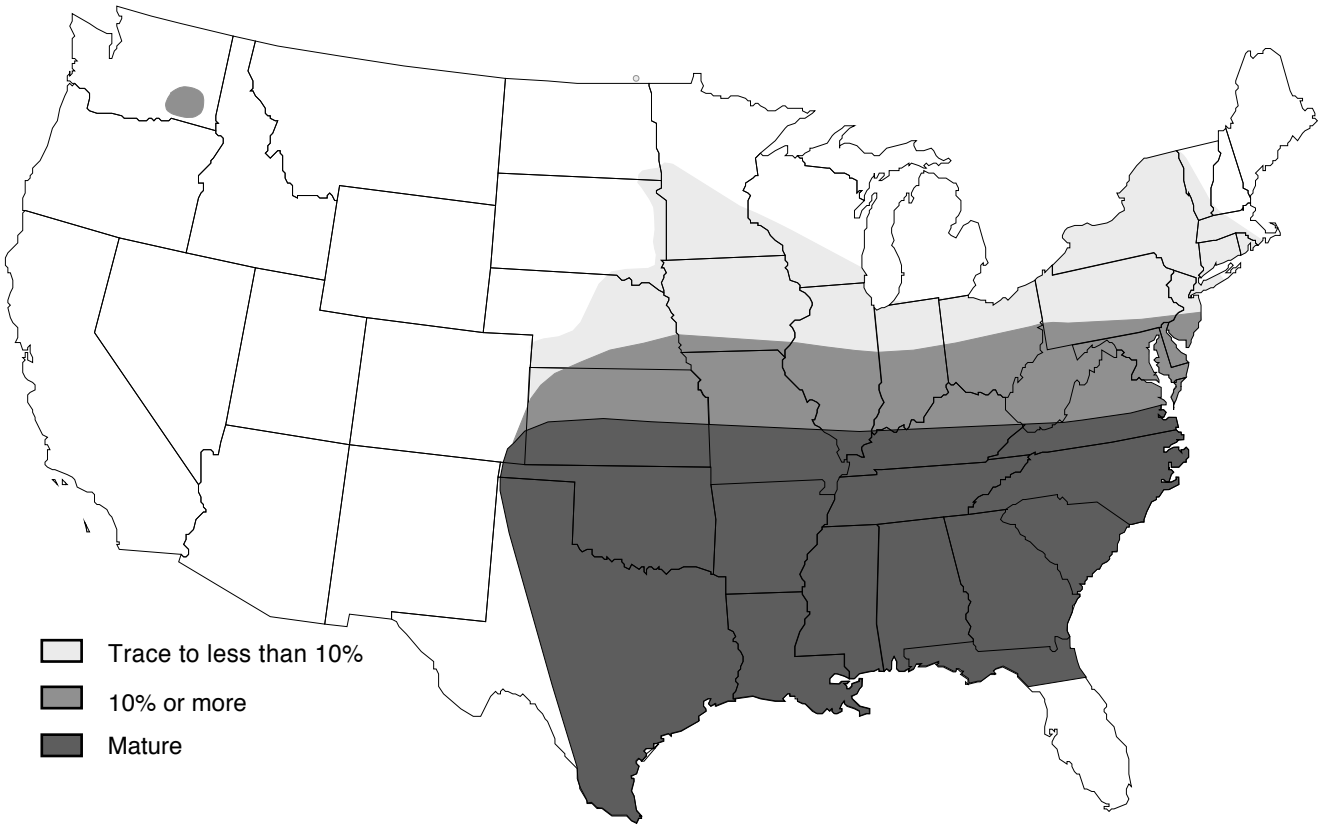

Fig. 2. Stripe rust severities in wheat fields and plots - June 22, 2010