

Issued by:

Cereal Disease Laboratory

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<http://www.ars.usda.gov/Main/docs.htm?docid=9970>

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- Wheat stem rust was found in Nebraska, Minnesota, Wisconsin, South and North Dakota and Washington.
- Wheat leaf rust is at low levels in northern Great Plains fields.
- Wheat stripe rust was found at low levels throughout the northern wheat growing area.
- Oat crown rust is increasing in the northern U.S. oat growing area.
- Oat stem rust was found in Minnesota plots - the first oat stem rust report since early May.

Wheat Stem Rust

Nebraska – On June 23, wheat stem rust was found on triticales planted as a border around the scab nursery at Mead and in two susceptible lines in the Lincoln nursery. In late June, low levels of stem rust were found in the winter wheat variety Winterhawk in western Nebraska plots. (For more detailed information see: Nebraska reports on the [Current Cereal Rust Situation Reports page](#)).

Minnesota – On June 28, low levels of wheat stem rust were found on the susceptible trap spring wheat variety Baart in Waseca and Lamberton plots in southern Minnesota. Many of the infections were observed on the flag leaf or on the stem area just below the flag leaf. In mid-July, low levels of stem rust were found in susceptible spring wheat lines at the Rosemount Experiment Station.

Wisconsin – In early July, low levels of stem rust were found in soft red winter wheat in an Oconto County plot and in Door County fields in northeastern Wisconsin.

South Dakota – In late June, low levels of stem rust were found in the winter wheat variety Radiant at Brookings, Highmore, Pierre and Watertown experiment stations in central and east central South Dakota.

North Dakota – On June 29, stem rust was observed for the first time this year in North Dakota, on Yellowstone winter wheat at the Casselton Seed Farm. Incidence was 50% severity and was 5% on the flag leaves with only a very few pustules on the stems.

Idaho – On June 28, stem rust was found at low levels in a winter wheat field located near barberry bushes in northwestern Idaho. (For more detailed information see: Pacific Northwest reports on the [Current Cereal Rust Situation Reports page](#)).

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 – During the last week in June leaf rust levels were high in susceptible winter wheat varieties in western Nebraska plots. A field in the same area had low levels of infections.

Minnesota – In late June, high levels of leaf rust were found on the susceptible spring wheat Baart in southern Minnesota plots and low levels were observed in a west central Minnesota plot. High levels of leaf rust were observed in susceptible winter wheat plots in southern Minnesota. In mid-July, high levels of leaf rust (40-60%) were observed on susceptible varieties in the spring wheat nursery at the Rosemount Experiment Station in east central Minnesota.

South Dakota – During the last week in June, leaf rust levels were high in susceptible winter wheat varieties in central and eastern South Dakota plots and low levels were observed in fields. Trace levels of leaf rust were observed in eastern South Dakota spring wheat fields.

North Dakota – In late June, low levels of leaf rust were found in winter wheat and trace levels of infection were found in spring wheat in North Dakota. (For more detailed information see: North Dakota reports on the [Current Cereal Rust Situation Reports page](#)).

Wisconsin – In late June, low levels of infection were observed in fields and light to moderate levels were observed in plots in eastern Wisconsin.

Montana – On July 7, low levels of leaf rust were found in the dryland winter wheat variety plots at the Southern Ag Research Station at Huntley. (For more detailed information see: Montana reports on the [Current Cereal Rust Situation Reports page](#)).

New York – In early July, high levels of leaf rust were observed on the Heritage Variety Red Fife in a plot at Ithaca.

Washington – In early July, low levels of wheat leaf rust were found in the winter wheat plots in southeastern Washington. Severe wheat leaf rust was found in central Washington and is now appearing in eastern Washington. Significant levels of wheat leaf rust are expected, however, it will not likely be as severe or widespread as stripe rust.

Wheat Stripe Rust

Nebraska – By the last week in June, wheat stripe rust development was slowed by the hot weather and dry conditions in western Nebraska.

South Dakota – On June 25, stripe rust levels were low throughout South Dakota and by early July hot weather had slowed wheat stripe rust development. (For more detailed information see: South Dakota reports on the [Current Cereal Rust Situation Reports page](#)).

North Dakota – In late June, high levels of stripe rust were found in winter wheat plots in southern North Dakota. On June 24 light levels of stripe rust were found in a few spring wheats at the Carrington extension center in central North Dakota. (For more detailed information see: North Dakota reports on the [Current Cereal Rust Situation Reports page](#)).



Minnesota – In late June, low levels of stripe rust were observed in a field in northwestern Minnesota and in west central Minnesota plots.

Wisconsin – In late June, low to moderate levels of stripe rust were found in soft red winter wheat fields in northeastern Wisconsin.

Montana – By late June, low levels of stripe rust were found throughout much of the state. (For more detailed information see: Montana reports on the [Current Cereal Rust Situation Reports page](#)).

Washington – Head infection is more common this year than previous past years due to favorable weather conditions and heavy inoculum. Stripe rust continues to increase in the spring wheat. Many fields have been sprayed with fungicides. (For more detailed information see: Washington stripe rust report on the [Current Cereal Rust Situation Reports page](#)).

Idaho – By early July, stripe rust was found in both winter and spring wheat in southern Idaho. (For more detailed information see: Idaho reports on the [Current Cereal Rust Situation Reports page](#)).

Oat Stem Rust – On July 9, low levels of oat stem rust were observed in a plot at Rosemount, Minnesota. This was the first report of oat stem rust since early May when it was found in central Texas. 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 late June, high levels of oat crown rust were found in plots and low levels in fields in southern Minnesota. During the last week of June, high levels of crown rust were found in oat fields in eastern Nebraska and low levels in plots and fields in eastern South Dakota. In early July, trace levels of crown rust were found in plots in northeastern Wisconsin. In early July, low levels of crown rust were found in oat plots in southern Manitoba.

Barley Leaf Rust – In late June, high levels of leaf rust were reported in a spring barley plot at the Waseca experiment station in southern Minnesota. On July 8, 10% leaf rust severities were observed in a barley plot in Ithaca, New York.

Barley Stripe Rust – High levels of barley stripe rust were found in experimental nurseries in the Palouse area in southeastern Washington. With favorable weather conditions barley stripe rust is expected to develop to severity levels higher than the last several years.

Barley Stem Rust – In early July, low levels of stem rust were found in a plot of the old spring barley variety Hypana at the Rosemount Experiment Station in east central Minnesota.

Rye Leaf Rust – In late June, high levels of rye leaf rust were found in southern Minnesota plots.



Fig. 1. Leaf rust severities in wheat fields and plots - July 13 , 2010

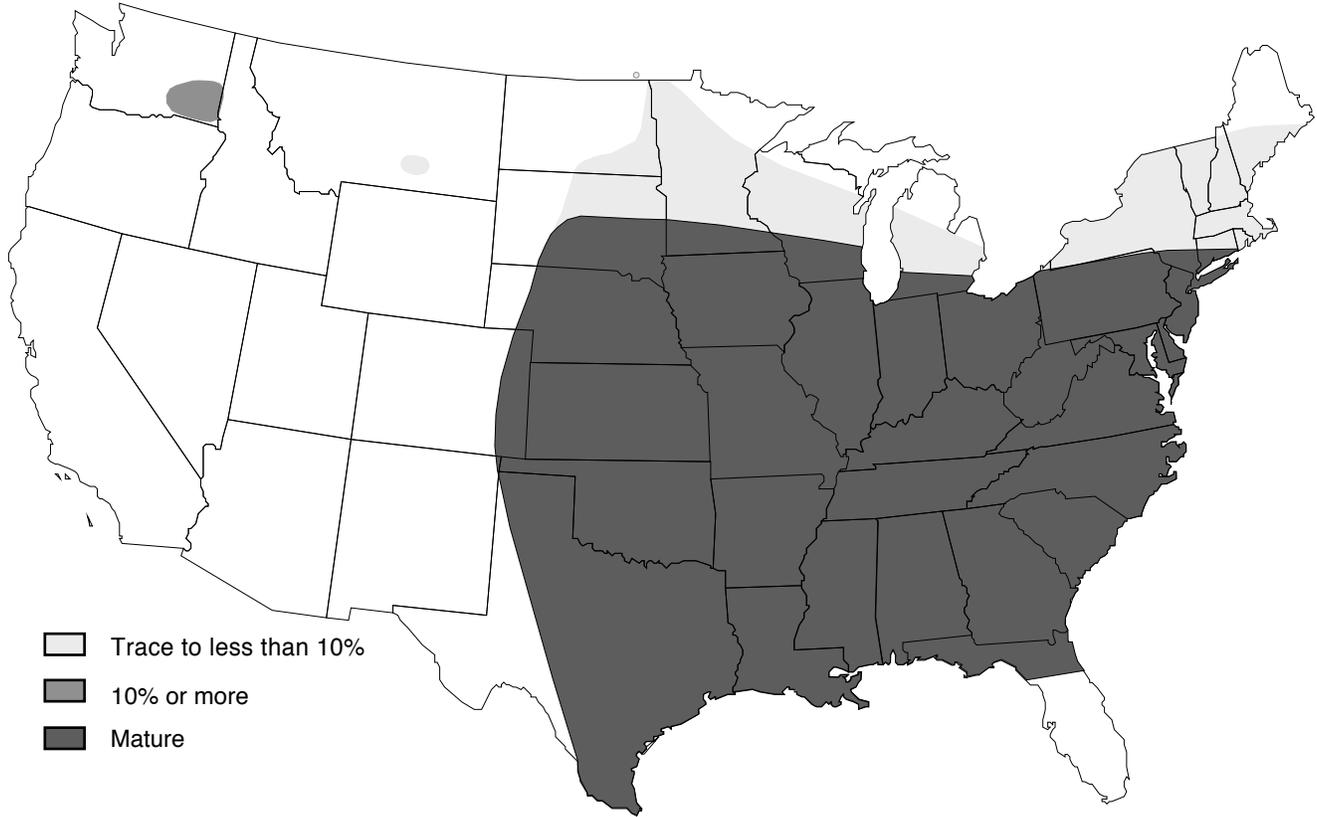


Fig. 2. Stripe rust severities in wheat fields and plots - July 13, 2010

