

CEREAL RUST BULLETIN

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Issued by:

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- Wheat leaf rust is present in the northern Great Plains.
- Wheat stripe rust is present the northern Great Plains.
- Rust is present on barberry (alternate wheat stem rust host) in southeastern Minnesota.

The small grain harvest is underway from southern South Carolina to northern Oklahoma. Winter wheat is at normal crop development stage in much of the central plains. Most of the grain in the northern plains is at average maturity.

Wheat stem rust. In late May, stem rust was severe in some plots of susceptible wheat in Castroville in south Texas.

Wheat leaf rust. In late May, leaf rust was found on susceptible cultivars in fields in northern Kansas. Hot dry weather slowed the rust development in Kansas and Oklahoma in late May. In early June, traces of leaf rust were found in wheat fields in southern Nebraska. Trace amounts of leaf rust were found on winter wheat lines in plots at Brookings in east central South Dakota in early June. With recent rainfall in the central plains, leaf rust should increase and provide inoculum for the northern wheat growing area.

In early June, trace levels of wheat leaf rust were found in winter wheat plots in east central Minnesota (Fig 1). Trace levels of leaf rust infections were also found in spring wheat in the Red River Valley of Minnesota in early June.

By late May, 100% severities were reported in plots of susceptible cultivars in central and southwestern Georgia. In late May, 15% leaf rust severities were observed on flag leaves of Saluda and McCormick cultivars in northeastern North Carolina research plots. Trace to 90% severities were reported in soft red winter wheat cultivars in eastern Virginia in late May.

In late May, 70% leaf rust severities were observed in a field of the cultivar Blanca Grande in Kern County, California.



Wheat stripe rust. In mid-May, wheat stripe rust was severe in central Nebraska plots and light in east central Nebraska plots. In late May, traces of stripe rust were found in south central South Dakota on the cultivar Arapahoe (Fig. 2).

In late May, traces of wheat stripe rust were found in winter wheat plots in east central Minnesota. Infections were mostly on the lower leaves. In early June, stripe rust infections were found on flag leaves in east central Minnesota winter wheat plots.

In late May, severe stripe rust was found in a field in Washington county in central coastal North Carolina.

In early June, light wheat stripe rust was found in a plot of Becker (older cultivar) in plots at Wooster Ohio. This was only the fourth time in 25 years that stripe rust was seen in the plots at Wooster.

In early June, severe levels of stripe rust were found in fields in northern Utah and southern Idaho.

Oat stem rust. In late May, 60% stem rust severities were observed in oat plots at Davis, California.

Oat crown rust. In late May, 5% crown rust severities were found in winter oat plots in northwestern South Carolina.

In late May, 60-80% crown rust severities were recorded in oat plots in Davis, California.

Buckthorn. In late May, crown rust aecial infections were less than last year at the St. Paul, Minnesota buckthorn nursery, due to cool temperatures.

Barley stem rust. There have been no reports of barley stem rust this year.

Barley leaf rust. There have been no new reports of barley leaf rust since CRB #5 (May 19).

Stripe rust on barley. There have been no new reports of stripe rust on barley since CRB #5 (May 19).

Barley crown rust. There have been no reports of crown rust on barley yet this year.

Rye leaf rust. There have been no new reports of rye leaf rust this year.

Rye stem rust. There have been no reports of rye stem rust this year.

Stem rust on barberry. In late May, aecial collections were made from infected susceptible barberry bushes (alternate host for stem rust) growing in southeastern Minnesota.



Fig. 1. Leaf rust severities in wheat fields - June 7, 2005

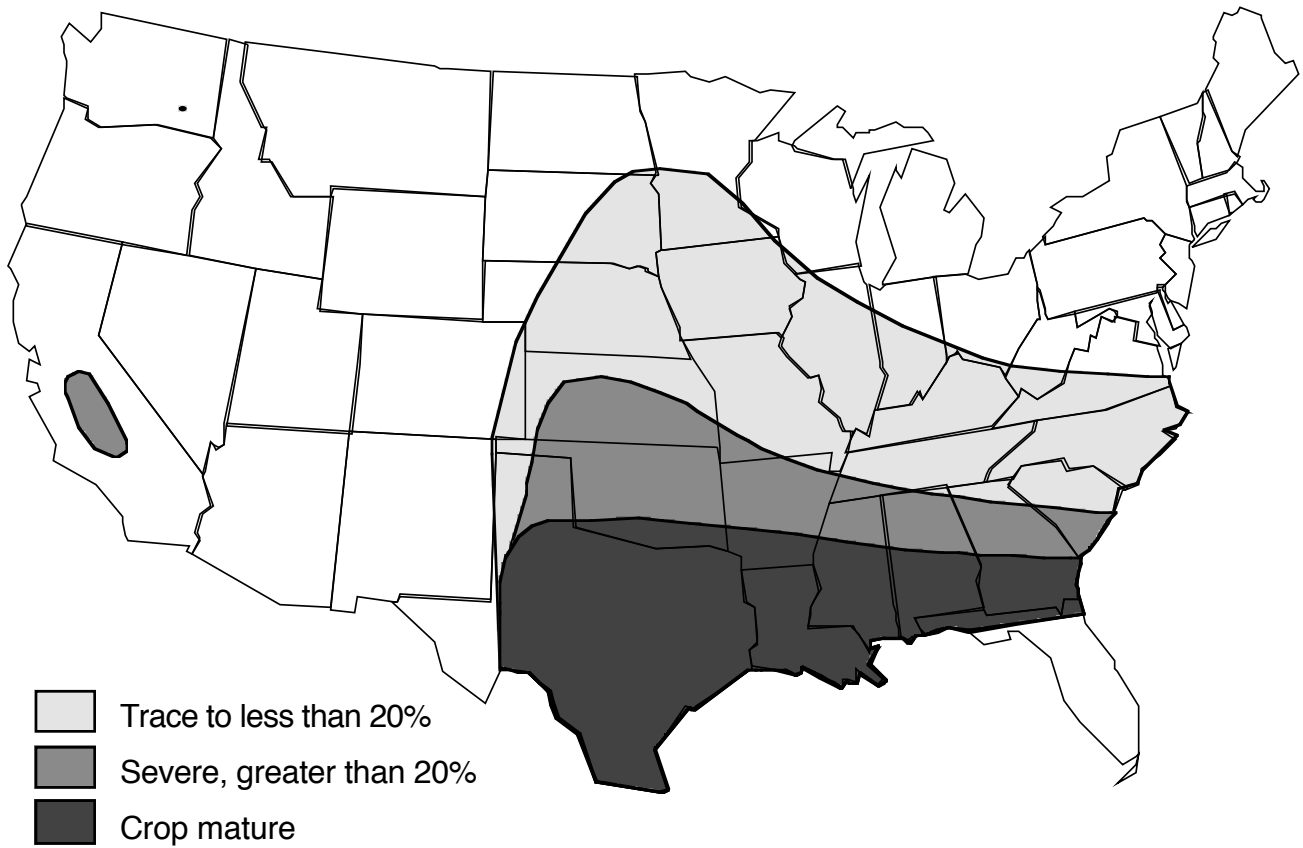


Fig. 2. Stripe rust severities in wheat fields - June 7, 2005

