

Issued by:

Cereal Disease Laboratory

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For the latest cereal rust news from the field, subscribe to the cereal-rust-survey listserv list. To subscribe, please visit:
<http://www.ars.usda.gov/Main/docs.htm?docid=9970>

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Reports from this list as well as all Cereal Rust Bulletins are maintained on the CDL website (<http://www.ars.usda.gov/mwa/cdl>)

- Wheat stem rust was found on susceptible cultivars in central Texas, southern Louisiana and Alabama plots.
- Wheat leaf rust is widespread throughout the southern U.S.
- Wheat stripe rust is increasing in California and the Pacific Northwest.
- Oat stem rust is increasing in Texas and Louisiana plots.
- Oat crown rust is increasing in the southern U.S. oat growing areas.

Winter wheat is at normal developmental stage in most areas of the U.S. In the spring wheat and oat area of the northern plains, cool and wet conditions have slowed planting.

Wheat Stem Rust. Texas – On April 22, stem rust was developing slowly on susceptible cultivars (e.g. McNair 701), a few winter wheat lines and on a winter triticale (Tamcale 5019) in the Castroville irrigated plots in south Texas. On April 27, a few pustules of wheat stem rust were found in the McNair 701 stem rust trap plot at College Station in central Texas.

Louisiana – On April 22, low levels of wheat stem rust were found in the Crowley plots in south central Louisiana on the susceptible variety Panola and other varietal trial entries. The varieties were maturing rapidly and the rust will therefore not have much more time to increase.

Alabama – On April 23, low to moderate levels of stem rust were found in a plot of the susceptible cultivar McNair 701 at Headland in southeastern Alabama.

Race Pgt-QFCS, a common race in recent years, was identified from collections made from plots in Jeanerette, Louisiana and Castroville, Texas.

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

Wheat Leaf Rust. Texas – In late April, 80-100% severity leaf rust ratings were reported on susceptible wheat in plots at Castroville and College Station, Texas. With continued good conditions for rust development, leaf rust incidence and severity will increase in central Texas the next few weeks, this will provide rust inoculum for areas further north.



Oklahoma – In late April, only low levels of leaf rust were observed in Oklahoma. Last year on the same date wheat leaf rust was much more prevalent and severe throughout the state of Oklahoma.

Kansas – In late April, leaf rust remains at low levels throughout south central and central Kansas. The disease was present in both research plots and fields near the Oklahoma border. There is moderate risk that leaf rust will cause yield losses in susceptible varieties in south central and central Kansas. There have been no reports of leaf rust in western Kansas.

Louisiana – In mid-April, wheat leaf rust was severe on many susceptible lines and cultivars in the Louisiana plots. Weather conditions have been ideal for rust development with lots of moisture (rain, dew and fog) and ideal temperatures across Louisiana.

Arkansas – In late April, leaf rust was lower than in the past several years in Arkansas. This year little leaf rust overwintered and less rust arrived from southern locations (i.e., South Texas and Louisiana). There still is time for rust to develop, but most of the acreage is planted with varieties that have some resistance.

Alabama - In mid-April, leaf rust severities ranged from 1 to 70% in wheat varietal plots in Fairhope and Headland in southern Alabama. Leaf rust from this area will provide rust inoculum for northern wheat areas.

South Carolina – In mid-April light to moderate levels of leaf rust were observed in plots at Blackville in south central South Carolina.

Wheat Stripe Rust. Texas – On April 22, light levels of stripe rust were found on a few winter wheat lines in the irrigated nursery at Castroville, Texas. Stripe rust was extremely light and hard to find in the nursery at College Station, Texas.

As of late April, no wheat stripe rust has been reported in Oklahoma or Kansas.

Louisiana – Wheat rust stripe levels are lighter than normal in Louisiana.

Arkansas – Wheat stripe rust is at lower levels than in the past several years in Arkansas. The threat of stripe rust appears to be low because the wheat crop is past the most favorable time for stripe rust development and most of the acreage is planted with varieties that have resistance.

California – From April 20-23, high levels of wheat stripe rust were found in nurseries in the Sacramento Valley, California. Severities higher than 50% were observed on the susceptible wheat (D6301) in Davis. In Colusa, the weather was ideal for stripe rust with high levels of rust in the susceptible varieties Yecora Rojo and Anza. A few newer entries were highly susceptible (close to 100% severity).

Pacific Northwest – In mid-April, light levels of stripe rust were found in the Horse Heaven Hills area in south central Washington and on a susceptible check in the field nursery near Walla Walla. In late March, 30% rust severities were reported on susceptible entries in nurseries at Mt. Vernon in



northwestern Washington. In some fields 10% severities were observed on the lower leaves. The rust levels were close to normal.

Oat Stem Rust. On April 20, oat stem rust was heavy on the oat variety Harrison and increasing on other oat plots at the irrigated nursery at Castroville, Texas. In late April, rust was present on leaves and a few stems in the Harrison spreader rows. In late April, oat stem rust was severe and spreading in plots at Baton Rouge, Louisiana.

Oat Crown Rust. In late April oat crown rust was lighter and later than normal on most varieties and lines in the College Station, Texas nursery, but increasing to 80S in some plots of the variety Brooks. In mid-April, crown rust was increasing in the oat plots at Baton Rouge, Louisiana. In mid-April, 30% severities were observed on the susceptible variety Florida 501 in southern Alabama at Fairhope, Brewton and Headland. These southern locations will provide crown rust inoculum for oat growing areas further north.

Buckthorn. On April 17, buds on buckthorn, the alternate host for oat crown rust, were breaking dormancy in the buckthorn nursery at St. Paul, Minnesota. This date is a bit earlier than normal for buckthorn development in these plots.

Barley Stem Rust. On April 20, light levels of stem rust were found in irrigated barley plots at the Castroville nursery in south Texas.

Barley Stripe Rust. During the third week in April, 50% severities were reported on the susceptible variety Max in the Davis, California nursery.

Barley Leaf Rust. In late April, barley leaf rust had spread throughout the nursery at College Station, Texas. Conditions remain favorable for rust development.



Fig. 1. Leaf rust severities in wheat fields - April 28, 2009

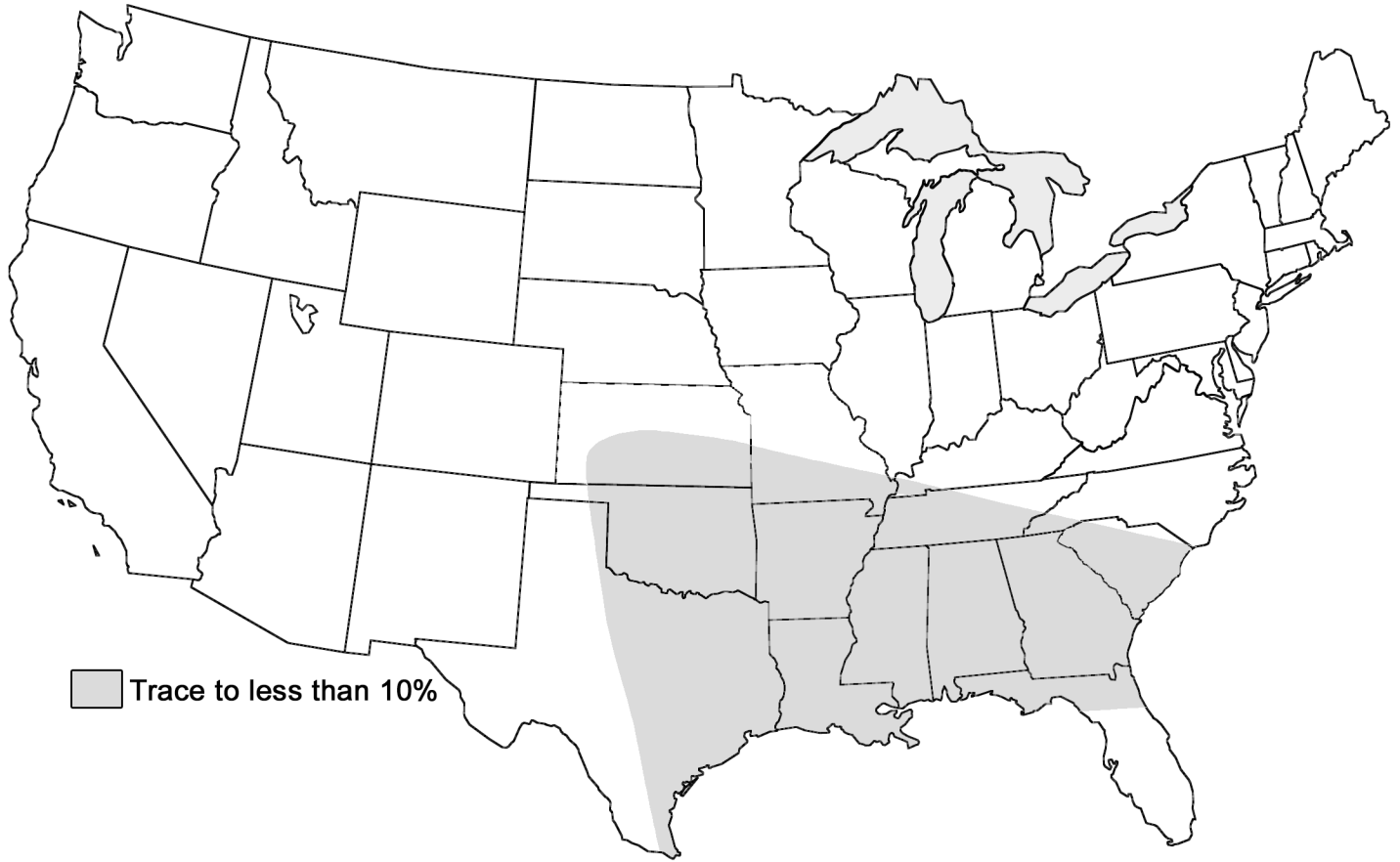


Fig. 2. Stripe rust severities in wheat plots and fields - April 28, 2009

