

Issued by:

Cereal Disease Laboratory

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- Wheat stem rust was found in southern Texas plots.
- Wheat leaf rust is at low levels in the southern U.S.
- Wheat stripe rust is at moderate levels in plots and fields in Texas, Louisiana, Arkansas and Washington.
- Oat stem rust was found in southern Louisiana and central Texas.
- Oat crown rust levels are low in the southern U.S.

Wheat Stem Rust

Texas – On March 18, low levels of stem rust were found in plots at Weslaco near the Mexican border. On April 8, low levels of wheat stem rust were found on flag leaves and stems in McNair 701 disease detection plots in the irrigated nursery at Uvalde in south Texas. The plants were at the early berry growth stage.

Wheat Leaf Rust

Texas – In early April, leaf rust was increasing on susceptible cultivars in plots in southern and central Texas (For more detailed information see: Texas reports on the [Current Cereal Rust Situation Reports page](#)). Only low levels were observed in fields throughout Texas. During early April rainfall was limited in much of Texas slowing leaf rust increase in crops that are behind normal maturity. From rust collections made in late November on volunteer wheat in central Texas, the following leaf rust race was identified: TDBGG (*Lr24* virulence) and from rusted collections made in south Texas plots in early February the MLSD (*Lr9,Lr17, Lr39/41*) race was identified. Both of these races were identified from rust collections made throughout the Great Plains in 2009. (For more detailed information see: [Race Surveys](#) on CDL website).

Oklahoma – In early April, low levels of leaf rust were observed in Oklahoma.

Kansas – On April 9, low levels of leaf rust were found in wheat plots in south central Kansas. Weather conditions the past two weeks have not been conducive for the continued spread of rust with temperatures in the 80s and lack of rainfall in most areas. (For more detailed information see: Kansas reports on the [Current Cereal Rust Situation Reports page](#)).

Louisiana – In early April, low levels of leaf rust were found in wheat plots and fields in southern Louisiana.

Arkansas – In early April, no leaf rust had yet been reported in Arkansas.

Wheat cultivar *Lr* gene postulation database

Please visit: [Leaf rust resistance gene postulation in current U.S. wheat cultivars](#).



Wheat Stripe Rust

Texas – In early April, stripe rust levels were severe in plots in southern and central Texas. As stated in CRB#1 the more severe levels of rust were observed on cultivars like Jagger, Jagalene and other cultivars with their parentage. In the past, the *Yr17* stripe rust resistance has been very effective, but the latest reports indicate that new races with virulence to this gene may be present (For more detailed information see: Texas reports on the [Current Cereal Rust Situation page](#)). The cool nights and light dews in the morning have been conducive for stripe rust development.

Oklahoma – In early April the only report of stripe rust in Oklahoma was on the lower leaves of wheat cultivar Jagalene growing in border rows at Stillwater. No stripe rust was found in any other plots. (For more detailed information see: Oklahoma reports on the [Current Cereal Rust Situation Reports page](#)).

Kansas – As of April 13, no wheat stripe rust has yet been found in Kansas. (For more detailed information see: Kansas reports on the [Current Cereal Rust Situation Reports page](#)).

Louisiana – In early April, wheat stripe rust was widespread throughout the state. In southern Louisiana nurseries 60% rust severities were reported on susceptible cultivars. The cool nights and light dews in the morning have been conducive for stripe rust development.

Arkansas – In early April, wheat stripe rust was widespread in Arkansas south of I-40, but mostly at low levels. Moisture and cool temperatures have been conducive for rust development throughout the state. (For more detailed information see: Arkansas reports on the [Current Cereal Rust Situation Reports page](#)).

Mississippi – On April 7, low levels of stripe rust were detected in wheat variety trial plots in Stoneville, MS. Winter damage wheat is present throughout the state and has delayed development of the crop.

Pacific Northwest – In mid-March severe levels of wheat stripe were found on susceptible checks in experimental fields in the Mount Vernon area of northwestern Washington. (For more detailed information see: U.S. stripe rust report on the [Current Cereal Rust Situation Reports page](#)).

Oat Stem Rust

On April 7, several large pustules of oat stem rust were found in plots at Baton Rouge, Louisiana. There is enough time for the rust to increase to epidemic proportions since the crop is later than normal in maturity. On April 11, oat stem rust was found on the upper leaves and stems at the College Station, Texas nursery.

Oat Crown Rust

In early April, oat crown rust levels were light and increasing slowly on the susceptible cultivars Nora and Brooks at College Station, Texas. No crown rust had been reported in Louisiana by early April. Crown rust infections are lighter than normal in the southern U.S.

Buckthorn

On April 2, buds on buckthorn, the alternate host for oat crown rust, were breaking dormancy in the buckthorn nursery at St. Paul, Minnesota. This is two weeks earlier than normal for buckthorn development in these plots.

Barley Leaf Rust

There have no new reports of barley leaf rust since early March, when severe levels of barley leaf rust were found on volunteer barley plants at the College Station, Texas experiment station.



Barley Stem and Stripe Rust

No barley stem or stripe rust has yet been reported in the U.S. this year.

Rye or Stem Leaf Rust

No rye leaf or stem rust has yet been reported in the U.S. this year.

