

May 16, 2022

With stripe rust starting to spread across the Oregon portion of the Columbia Basin, many of you may be considering whether to spray fields. To help, we have compiled a summary of OSU's stripe rust resistance data for several winter wheat varieties in the region, provided by Dr. Chris Mundt. The full reports can be found on our website (<https://cropandsoil.oregonstate.edu/wheat/variety-trials/2021-oregon-wheat-and-barley-yield-trial-data>).

These data show percent canopy infection for each variety grown in untreated plots in Corvallis in 2020 and 2021, and Pendleton in 2020. UI Magic CL+ continues to be one of the most susceptible winter wheat varieties regarding stripe rust. Fields of UI Magic CL+ should be closely monitored and sprayed if necessary. Appleby CL+ and LCS Shine, two newer varieties in the region, have averaged just one tenth of the stripe rust seen in UI Magic CL+ in our trials. While these varieties may still benefit from a fungicide application, stripe rust is expected to spread more slowly through these fields.

Please note that relative disease severity can change depending on the prevalent stripe rust races and environmental conditions. For instance, "Mary" showed little stripe rust infection before it was released, but a subsequent shift in races has made it one of the more susceptible varieties in the region. Therefore, even the most resistant varieties should be monitored for breakthrough infections.

<b>SWW Varieties</b>	<b>2-Year Stripe Rust Average</b>
UI Magic CL+	37.8%
Mary	30.8%
Rosalyn	19.2%*
LCS Artdeco	11.8%
Appleby CL+	3.0%
LCS Shine	1.7%
Stingray CL+	1.0%
SY Assure	0.6%
M-Press	0.5%
LCS Drive	0.3%
Bobtail	0.2%
LCS Blackjack	0.1%
Norwest Tandem	0.0%

\*While Rosalyn has not appeared to be resistant to stripe rust when tested in the Willamette Valley, it has shown very little stripe rust infection when evaluated east of the Cascades.

<b>HRW Varieties</b>	<b>2-Year Stripe Rust Average</b>
Brawl CL Plus	80.8%
LCS Jet	22.5%

**Questions?** Contact Ryan Graebner, Cereal Extension Program, Oregon State University, (541 )359-7151