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May 16, 2023

To: Oregon Wheat Growers and Industry Representatives

Re: Eastern Oregon Stripe Rust Update

From: Christina Hagerty, Chris Mundt, Ryan Graebner

Dear Growers and Stakeholders,

Stripe rust has been observed in the Cereal Pathology's rust nursery at the Columbia Basin Agricultural Research Center in Pendleton. This first rust observation is exactly 1 week behind the 2022 season.

Growers should scout fields, particularly if known susceptible cultivars (e.g. UI Magic CL+) are planted. Some new CoAxium cultivars have unknown stripe rust susceptibility, therefore those cultivars should be monitored closely.

Yield potential is likely average this season. If stripe rust is found, a fungicide application is recommended. Conditions for stripe rust have been favorable in eastern Oregon.

Rust can increase very quickly and it is important to not let stripe rust build to high levels. For highly susceptible varieties, such as UI Magic CL+, it is best to spray when rust is first found, rather than wait for flag leaf emergence. Timing of a fungicide application is generally more important than the fungicide product applied.

Less expensive fungicide products (triazoles) will give adequate control if applied in a timely manner. Fungicides containing both a triazole and a strobilurin can sometimes give better and more prolonged control under severe rust conditions, but are more expensive. We do not have data to support that SDHI fungicides give better control on stripe rust than a triazole/strobilurin mix. Choice of product will thus depend on susceptibility of your variety, yield potential of your crop, chemical price, and available funds.

Please do not hesitate to reach out if you have questions or concerns.

Stripe rust on an experimental CoAxium wheat observed May 16th 2023, Umatilla County, OR. Notice the orange sporulating blisters, indicated with the blue arrow. Some of the lesion area is necrotic (dead), a plant defense mechanism to shut down infection potential. Rust is a biotroph; it needs living tissue to replicate.