

# Protecting Profits – Fungicide Management in Wheat



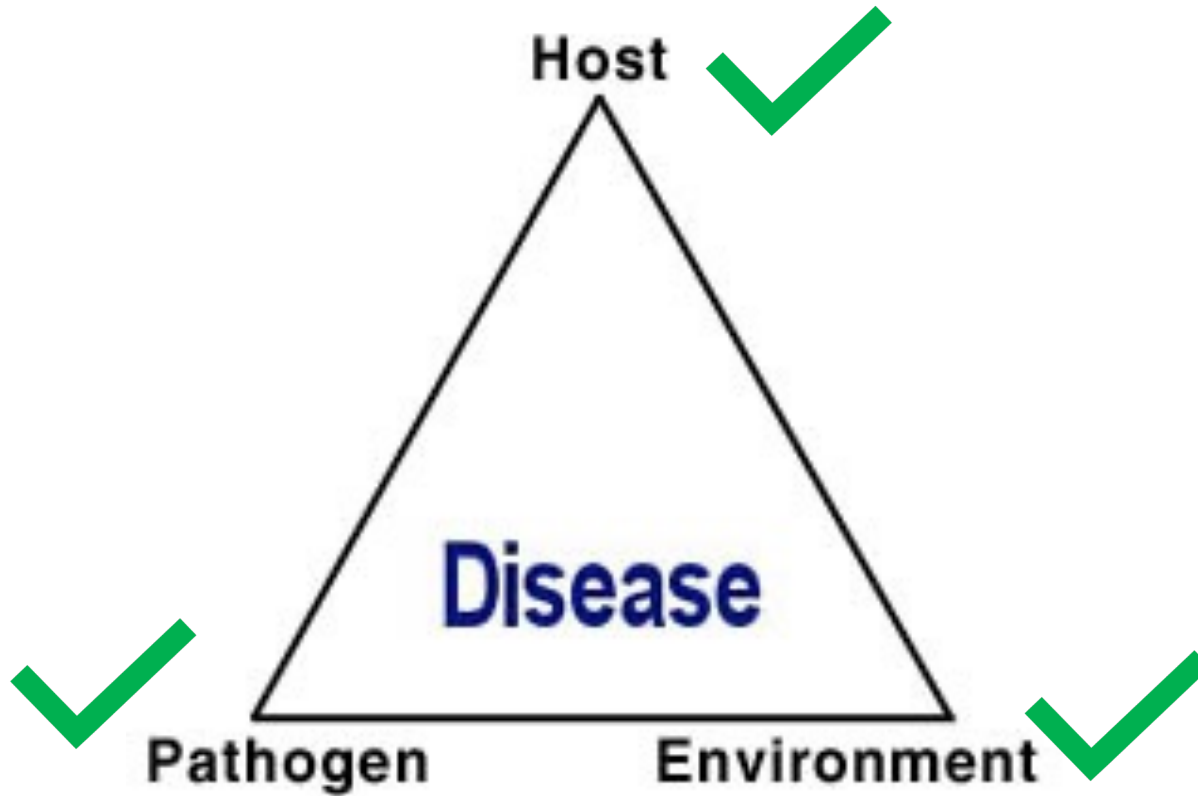
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# Common Questions

1. Do I need to spray fungicides on my wheat?
2. When should we spray?
3. What should we spray?



**All 3 at the same time = Disease**



# 1. Do I need to spray my wheat?

- Best defense is a high-quality variety with resistance!
- Saved wheat doesn't count



# 1. Do I need to spray my wheat?

## Know your varieties

- NC State Variety Disease Packages
- University of Kentucky
- Ohio Wheat Performance Test (Ohio State)

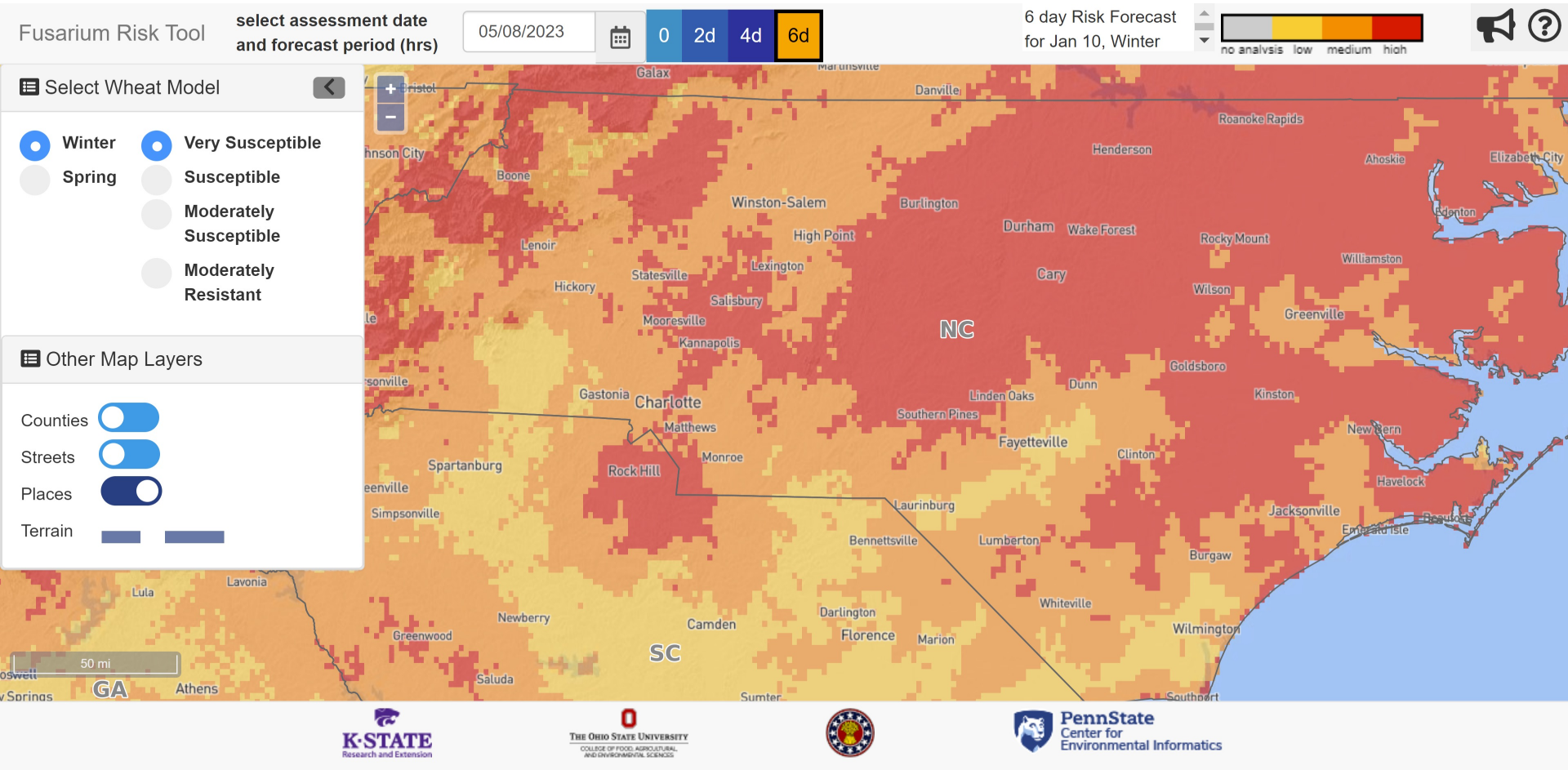


## 2. When should we spray?

If your variety is susceptible to scab apply fungicide at flowering if conditions are a threat



# wheatcab.psu.edu



# 3. Which Fungicides Work?

Crop Protection Network – [www.cropprotectionnetwork.org](http://www.cropprotectionnetwork.org)



**Fungicide mode of action groups:**

- Group 11 QoI Strobilurins
- Group 3 DMI Triazoles
- Group 7 SDHI Carboxamides

**Efficacy categories:**

- P=Poor; F=Fair; G=Good; VG=Very Good; E=Excellent;
- NL = Not Labeled for use against this disease; NR=Not Recommended;
- U = Unknown efficacy or insufficient data to rank product

## Efficacy of Fungicides for Wheat Disease Control Based on Appropriate Application Timing (07/2022)

				Powdery mildew	Stagonospora leaf/glume blotch	Septoria tritici blotch	Tan spot	Stripe rust	Leaf rust	Stem rust	Head scab <sup>4</sup>	Harvest restriction	
	Active ingredient (%)	Product/Trade name	Rate/A (fl oz)										
Strobilurins	11	Picoxystrobin 22.5%	Aproach SC	6.0 – 12.0	G <sup>1</sup>	VG	VG <sup>2</sup>	VG	E <sup>3</sup>	VG	VG	NL	Feekes 10.5
		Pyraclostrobin 23.6%	Headline SC	6.0 – 9.0	G	VG	VG <sup>2</sup>	E	E <sup>3</sup>	E	G	NL	Feekes 10.5
		Azoxystrobin 22.9%	Quadris 2.08 SC	4.0 – 12.0 <sup>5</sup>	G	VG	VG	E	E	E	G	NL	Feekes 10.5.4
Triazoles	3	Metconazole 8.6%	Caramba 0.75 SL	10.0 – 17.0	VG	VG	--	VG	E	E	E	G	30 days
		Tebuconazole 38.7%	Folicur 3.6 F <sup>6</sup>	4.0	NL	NL	NL	NL	E	E	E	F	30 days
		Prothioconazole 41.0%	Proline 480 SC	5.0 – 5.7	--	VG	VG	VG	VG	VG	VG	G	30 days
		Prothioconazole 19.0%	Prosaro 421 SC	6.5 – 8.2	G	VG	VG	VG	E	E	E	G	30 days
		Tebuconazole 19.0%											
	Proniconazole 41.8%	Tilt 3.6 FC <sup>6</sup>	4.0	VG	VG	VG	VG	VG	VG	VG	P	Feekes 10.5.4	



# Summary

1. Know your varieties – plant resistant ones
2. Protect susceptible varieties from scab at flowering
3. Fungicide efficacy table can be found on Crop Protection Network



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# Wheat Research on Fungicides

SNB, powdery mildew, scab and leaf rust found in Kinston in 2023

