

**Fungicide mode of action groups:**

- Group 11 Qol 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 (03/2023)

	Active ingredient (%)	Product/Trade name	Rate/A (fl oz)	Powdery mildew	Stagonospora leaf/glume blotch	Septoria tritici blotch	Tan spot	Stripe rust	Leaf rust	Stem rust	Head scab <sup>4</sup>	Harvest restriction		
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 <sup>5</sup>	4.0 – 12.0 <sup>5</sup>	G	VG	VG	E	E	E	VG	NL	Feekes 10.5.4	
Triazoles		Metconazole 8.6%	Caramba 0.75 SL	10.0 – 17.0	VG	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%												
		Propiconazole 41.8%	Tilt 3.6 EC <sup>6</sup>	4.0	VG	VG	VG	VG	VG	VG	VG	P	Feekes 10.5.4	
		Metconazole 10.91% Prothioconazole 18.19%	Sphaerex	4.0 – 7.3	VG	VG	VG	VG	E	E	E	G	30 days	
Mixed modes of action <sup>8</sup>	11	Trifloxystrobin 22.6%	Absolute Maxx SC	5.0	G	VG	VG	VG	VG	E	VG	NL	35 days	
	3	Tebuconazole 22.6%												
	11	Picoxystrobin 17.94%	Aproach Prima SC	3.4 – 6.8	VG	VG	VG	VG	E	VG	--	NR	45 days	
	3	Cyproconazole 7.17%												
	11	Trifloxystrobin 13.7%	Delaro 325 SC	8.0	G	VG	VG	VG	VG	VG	VG	NL	Feekes 10.5 35 days	
	3	Prothioconazole 16.0%												
	7	Pydiflumetofen 13.7%	Miravis Ace SE	13.7	VG	VG	VG	VG	VG	VG	VG	VG	G	Feekes 10.5.4
	3	Propiconazole 11.4%												
	7	Fluxapyroxad 2.8%	Nexicor EC	7.0 – 13.0	VG	VG	E	E	E	E	VG	NL	Feekes 10.5	
	11	Pyraclostrobin 18.7%												
	3	Propiconazole 11.7%	Priaxor	4.0 – 8.0	G	VG	VG	E	VG	VG	G	NL	Feekes 10.5	
	7	Fluxapyroxad 14.3%												
	11	Pyraclostrobin 28.6%	Prosaro Pro SC	10.3-13.6	G	VG	VG	VG	E	E	E	G	30 days	
	3	Prothioconazole 17.39%												
	7	Fluopyram 8.7%	Quilt Xcel 2.2 SE <sup>6</sup>	10.5 – 14.0	VG	VG	VG	VG	E	E	VG	NL	Feekes 10.5.4	
	11	Azoxystrobin 13.5%												
	3	Propiconazole 11.7%	Stratego YLD <sup>9</sup>	4.0	G	VG	VG	VG	VG	VG	VG	NL	Feekes 10.5 35 days	
	11	Trifloxystrobin 32.3%												
	3	Prothioconazole 10.8%	Trivapro SE	9.4 – 13.7	VG	VG	VG	VG	E	E	VG	NL	Feekes 10.5.4	
	7	Benzovindiflupyr 2.9%												
11	Azoxystrobin 10.5%	Topguard EQ	4.0 – 7.0	VG	NL	VG	VG	E	E	VG	NL	Feekes 10.5.4 35 days		
3	Flutriafol 18.63%													

<sup>1</sup>Efficacy categories: NL=Not Labeled; NR=Not Recommended; P=Poor; F=Fair; G=Good; VG=Very Good; E=Excellent; -- = Insufficient data to make statement about efficacy of this product.

<sup>2</sup>Product efficacy may be reduced in areas with fungal populations that are resistant to strobilurin fungicides. <sup>3</sup>Efficacy may be significantly reduced if solo strobilurin products are applied after stripe rust infection has occurred. <sup>4</sup>Application of products containing strobilurin fungicides may result in elevated levels of the mycotoxin Deoxynivalenol (DON) in grain damaged by head scab.

<sup>5</sup>Label rate for powdery mildew is 7.5-11.0 fl. oz/A. <sup>6</sup>Multiple generic products containing the same active ingredients also may be labeled in some states. <sup>7</sup>A 7 oz/A rate has been approved in several states (Kansas, Nebraska, Colorado, South Dakota) for flag leaf applications when disease levels are low <sup>8</sup>Products with mixed modes of action generally combine triazole and strobilurin active ingredients. Miravis Ace, Nexicor, Priaxor, and Trivapro include carboxamide active ingredients. <sup>9</sup>Stratego is a product with the same active ingredients as Stratego YLD but a different formulation (11.4% Propiconazole and 11.4% Trifloxystrobin) and higher use rate (10 fl oz/A)