

Management of Small Grain Diseases Fungicide Efficacy for Control of Wheat Diseases (2023 FINAL)

The North Central Regional Committee on Management of Small Grain Diseases (NCERA-184) has developed the following information on fungicide efficacy for control of certain foliar diseases of wheat for use by the grain production industry in the U.S. Efficacy ratings for each fungicide listed in the table were determined by field testing the materials over multiple years and locations by the members of the committee. Efficacy is based on proper application timing to achieve optimum effectiveness of the fungicide as determined by labeled instructions and overall level of disease in the field at the time of application. Differences in efficacy among fungicide products were determined by direct comparisons among products in field tests and are based on a single application of the labeled rate as listed in the table. Table includes most widely marketed products, and is not intended to be a list of all labeled products.

Efficacy of fungicides for wheat disease control based on appropriate application timing

Fungicide(s)				Powdery mildew	Stagonospora leaf/glume blotch	Septoria tritici blotch	Tan spot	Stripe rust	Leaf rust	Stem rust	Head scab ⁴	Harvest Restriction	
Class	Active ingredient	Product	Rate/A (fl. oz)										
Strobilurin	Picoxystrobin 22.5%	Aproach SC	6.0 - 12.0	G ¹	VG	VG ²	VG	E ³	VG	VG	NL	Feekes 10.5	
	Pyraclostrobin 23.6%	Headline SC	6.0 - 9.0	G	VG	VG ²	E	E ³	E	G	NL	Feekes 10.5	
	Azoxystrobin 22.9%	Quadris 2.08 SC <i>Multiple generics</i> ⁶	4.0 - 12.0 ⁵	G	VG	VG	E	E	E	VG	NL	Feekes 10.5.4	
Triazole	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 <i>Multiple generics</i> ⁶	4.0	NL	NL	NL	NL	E	E	E	F	30 days	
	Prothioconazole 41%	Proline 480 SC	5.0 - 5.7	--	VG	VG	VG	VG	VG	VG	G	30 days	
	Prothioconazole 19% Tebuconazole 19%	Prosaro 421 SC	6.5 - 8.2	G	VG	VG	VG	E	E	E	G	30 days	
	Propiconazole 41.8%	Tilt 3.6 EC <i>Multiple generics</i> ⁶	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 ⁸	Tebuconazole 22.6% Trifloxystrobin 22.6%	Absolute Maxx SC	5.0	G	VG	VG	VG	VG	E	VG	NL	35 days	
	Cyproconazole 7.17% Picoxystrobin 17.94%	Aproach Prima SC	3.4 - 6.8	VG	VG	VG	VG	E	VG	--	NR	45 days	
	Prothioconazole 16.0% Trifloxystrobin 13.7%	Delaro 325 SC	8.0	G	VG	VG	VG	VG	VG	VG	NL	Feekes 10.5 35 days	
	Pydiflumetofen 13.7% Propiconazole 11.4%	Miravis Ace SE	13.7	VG	VG	VG	VG	VG	VG	VG	G	Feekes 10.5.4	
	Fluxapyroxad 2.8% Pyraclostrobin 18.7% Propiconazole 11.7%	Nexicor EC	7.0 - 13.0	VG	VG	E	E	E	E	VG	NL	Feekes 10.5	
	Fluxapyroxad 14.3% Pyraclostrobin 28.6%	Priaxor	4.0 - 8.0	G	VG	VG	E	VG	VG	G	NL	Feekes 10.5	
	Prothioconazole 17.39% Tebuconazole 8.7% Fluopyram 8.7%	Prosaro Pro SC	10.3-13.6	G	VG	VG	VG	E	E	E	G	30 days	
	Propiconazole 11.7% Azoxystrobin 13.5%	Quilt Xcel 2.2 SE <i>Multiple generics</i> ⁶	10.5 - 14.0 ⁷	VG	VG	VG	VG	E	E	VG	NL	Feekes 10.5.4	
	Prothioconazole 10.8% Trifloxystrobin 32.3%	Stratego YLD ⁹	4.0	G	VG	VG	VG	VG	VG	VG	NL	Feekes 10.5 35 days	
	Benzovindiflupyr 2.9% Propiconazole 11.9% Azoxystrobin 10.5%	Trivapro SE	9.4 - 13.7	VG	VG	VG	VG	E	E	VG	NL	Feekes 10.5.4	
	Flutriafol 18.63% Azoxystrobin 25.30%	Topguard EQ	4.0-7.0	VG	NL	VG	VG	VG	E	E	VG	NL	Feekes 10.5.4 30 days

¹Efficacy 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.