



Fungicide Efficacy for Control of Corn Diseases

The **Corn Disease Working Group (CDWG)** developed ratings for how well fungicides control major corn diseases in the United States. The CDWG determined efficacy ratings for each fungicide listed in the table by field testing the materials over multiple years and locations. Ratings are based on the product's level of disease control and do not necessarily reflect yield increases obtained from product application.

A product's efficacy depends upon proper application timing, rate, and application method as determined by the product label and overall disease level in the field at the time of application. Differences in efficacy among each fungicide product were determined by directly comparing products in field tests using a single application of the labeled rate. For application timing and use considerations, contact your local cooperative extension service.

The table includes marketed products available that have been tested over multiple years and locations. The table is not intended to be a list of all labeled products. Additional fungicides are labeled for disease on corn, including contact fungicides such as chlorothalonil. Other fungicides may be available for diseases not listed in the table, including *Diplodia*, *Gibberella*, and *Fusarium* ear rots.

Many products have specific use restrictions about the amount of active ingredient that can be applied within a period of time or the amount of sequential applications that can occur. **Read and follow all use restrictions prior to applying any fungicide.**

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

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Class	FUNGICIDE(S)		Rate/A (fl. oz.)	Trade Name	Anthracnose Leaf Blight	Common Rust	Eyespot	Gray Leaf Spot	Northern Corn Leaf Blight	Southern Rust	Tar Spot ¹	Harvest Restriction ²
	Active ingredient (%)	Rate/A (fl. oz.)										
QoI Strobilurins Group 11	azoxystrobin 22.9%	Quadris 2.08SC® multiple generics	6.0-15.5		VG	E	VG	E	G	VG	NL	7 days
	pyraclostrobin 23.6%	Headline 2.09EC/SC®	6.0-12.0		VG	E	E	E	VG	VG	NL	7 days
	picoxystrobin 22.5%	Approach 2.08SC®	3.0-12.0		VG	VG-E	VG	F-VG	VG	G	NL	7 days
DMI Triazoles Group 3	propiconazole 41.8%	Tilt 3.6EC® multiple generics	2.0-4.0		NL	VG	E	G	G	F	NL	30 days
	prothioconazole 41.0%	Proline 480SC®	5.7		U	VG	E	U	VG	G	NL	14 days
	tebuconazole 38.7%	Folicur 3.6F® multiple generics	4.0-6.0		NL	U	NL	U	VG	F	NL	36 days
	tetraconazole 20.5%	Domark 230ME®	4.0-6.0		U	U	U	E	VG	G	NL	R3 (milk)
Mixed Modes of Action	azoxystrobin 13.5%	Quilt Xcel 2.25E® multiple generics	10.5-14.0		VG	VG-E	VG-E	E	VG	VG	G-VG	30 days
	benzovindiflupyr 2.9%	Trivapro 2.215E®	13.7		U	U	U	E	VG	E	G-VG	30 days
	azoxystrobin 10.5%											
	propiconazole 11.9%											
	cyproconazole 7.17%	Approach Prima 2.345C®	3.4-6.8		U	U	U	E	VG	G	G-VG	30 days
	picoxystrobin 17.94%											
	flutriafol 19.3 %	Fortix 3.225C®	4.0-6.0		U	U	U	E	VG-E	VG	NL	R4 (dough)
	fluoxastrobin 14.84%	Preemptor 3.225C®										
	flutriafol 26.47%	Lucento	3.0-5.5		U	U	U	VG-E	VG	VG	G-VG	R4
	bixafen 15.55%											
	prothioconazole 16.0%	Delaro 3255C®	8.0-12.0		VG	E	VG	E	VG	VG	G-VG	14 days
	trifloxystrobin 13.7%											
	pydiflumetofen 7.0%	Miravis Neo 2.55E®	13.7		U	U	U	E	VG-E	VG	G-VG	30 days
	azoxystrobin 9.3%											
	propiconazole 11.6%	Priaxor 4.175C®	4.0-8.0		U	VG	U	VG	VG-E	VG	U	21 days
pyraclostrobin 28.58%												
fluxapyroxad 14.33%	Headline AMP 1.685C®	10.0-14.4		U	E	E	E	VG	G	G-VG	20 days	
pyraclostrobin 13.6%												
metconazole 5.1%	Stratego YLD4.185C®	4.0-5.0		VG	E	VG	E	VG	G	NL	14 days	
trifloxystrobin 32.3%												
prothioconazole 10.8%	Affiance 1.55C®	10.0-14.0		U	G-VG	U	G-VG	G-VG	G	G	7 days	
tetraconazole 7.48%												
azoxystrobin 9.35%	TopGuard EQ	5.0-7.0		U	F	U	VG	VG	U	G-VG	45 days	
Flutriafol 18.63%												
Azoxystrobin 25.30%												
Mefenfluronazole 17.56a5	Velthyma	7.0-10.0		U	U	U	VG-E	VG-E	VG-E	VG	G-VG	21 days
Pyraclostrobin 17.56%												
Mefenfluronazole 11.61%	Revytek	8.0-15.0		U	U	U	VG-E	VG-E	VG-E	VG	G-VG	21 days
Pyraclostrobin 15.49%												
Fluxapyroxad 7.74%												

¹Fungicide application timing is extremely important and needs to be made near the onset of the tar spot symptoms. Efficacy ratings based on limited site locations from 2018 and 2019. A 2ee label is available for several fungicides for control of tar spot, however, efficacy data are limited. Check 2ee labels carefully, as not all products have 2ee labels in all states.

²Harvest restrictions are listed for field corn harvested for grain. Restrictions may vary for other types of corn (sweet, seed, or popcorn, etc.), and corn for other uses such as forage or fodder. This information is provided only as a guide. It is the applicator's legal responsibility to read and follow all current label directions. Reference in this publication to any specific commercial product is for general information only, and does not constitute an endorsement or recommendation by the CDWG. Individuals using such products assume responsibility for their use in accordance with current directions of the manufacturer. Members or participants in the CDWG assume no liability resulting from the use of these products.

Find Out More

The Crop Protection Network (CPN) is a multi-state and international collaboration of university and provincial extension specialists, and public and private professionals who provide unbiased, research-based information to farmers and agricultural personnel. Our goal is to communicate relevant information that will help professionals identify and manage field crop diseases.

Find more crop disease resources at CropProtectionNetwork.org.



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