



## Management of Corn Diseases

# Fungicide Efficacy for Control of Corn Diseases - January 2021

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This fungicide efficacy chart was adapted for Indiana from information developed by the Corn Disease Working Group (CDWG). The CDWG developed ratings for how well fungicides control major corn diseases in the United States and 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 does 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, please 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.

*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, process, or service, or the use of any trade, firm, or corporation name is for general informational purposes only and does not constitute an endorsement, recommendation, or certification of any kind by Purdue Extension or the CDWG. Individuals using such products assume responsibility for their use in accordance with current directions of the manufacturer*

Efficacy categories: NR=Not Recommended; P=Poor; F=Fair; G=Good; VG=Very Good; E=Excellent; NL = Not a target disease listed on the label; U = Unknown efficacy or insufficient data to rank product efficacy.											
Fungicide Classes: Group 11 = Qo1 Strobilurins; Group 3 = DMI Triazoles; Group 7 = SDHI (succinate dehydrogenase).											
Fungicide(s) Class	Active ingredient (%)	Product/Trade name	Rate/A (fl oz)	Anthracnose leaf blight	Common rust	Eyespot	Gray leaf spot	Northern corn leaf blight	Southern rust	Tar spot <sup>1</sup>	Harvest restriction <sup>2</sup>
Qo1 Strobilurins Group 11	Azoxystrobin 22.9%	Quadris 2.08 SC Multiple Generics	6.0 - 15.5	VG	E	VG	E	G	VG	NL	7 days
	Pyraclostrobin 23.6%	Headline 2.09 EC/SC	6.0 - 12.0	VG	E	E	E	VG	VG	NL	7 days
	Picoxystrobin 22.5%	Aproach 2.08 SC	3.0 - 12.0	VG	VG-E	VG	F-VG	VG	G	G <sup>3</sup>	7 days
DMI Triazoles Group 3	Flutriafol 20.9%	Xway LFR 1.92 SC Xway 3D 2.5 SC	LFR: 7.6-15.2 3D: 5.8 - 11.8	NL	U	NL	VG-E	VG	NL	NL	N/A
	Propiconazole 41.8%	Tilt 3.6 EC Multiple Generics	2.0 - 4.0	NL	VG	E	G	G	F	NL	30 days
	Prothioconazole 41.0%	Proline 480 SC	5.7	U	VG	E	U	VG	G	NL	14 days
	Tebuconazole 38.7%	Folicur 3.6 F Multiple Generics	4.0 - 6.0	NL	U	NL	U	VG	F	NL	36 days
	Tetraconazole 20.5%	Domark 230 ME	4.0 - 6.0	U	U	U	E	VG	G	G-VG <sup>3</sup>	R3 (milk)
Mixed Modes of Action	11	Azoxystrobin 13.5%	Quilt Xcel 2.2 SE Multiple Generics	10.5 - 14.0	VG	VG-E	VG-E	VG	VG	G-VG <sup>3</sup>	30 days
	3	Propiconazole 11.7%									
	7	Benzovindiflupyr 2.9%	Trivapro 2.21 SE	13.7	U	U	U	VG	E	G-VG	30 days
	11	Azoxystrobin 10.5%									
	3	Propiconazole 11.9%									
	3	Cyproconazole 7.17%	Approach Prima 2.34 SC	3.4 - 6.8	U	U	U	VG	G	G-VG <sup>3</sup>	30 days
	11	Picoxystrobin 17.94%									
	3	Flutriafol 19.3%	Fortix 3.22 SC Preemptor 3.22 SC	4.0 - 6.0	U	U	U	VG	VG	G-VG <sup>3</sup>	R4 (dough)
	11	Fluoxastrobin 14.84%									
	3	Flutriafol 26.47%	Lucento	3.0 - 5.5	U	U	U	VG-E	VG	G <sup>3</sup>	R4
	7	Bixafen 15.55%									
	3	Flutriafol 18.63%	TopGuard EQ	5.0 - 7.0	U	F	U	VG	G	G-VG <sup>3</sup>	45 days
	11	Azoxystrobin 25.30%									
	3	Mefentrifluconazole 17.56%	Veltyma	7.0 - 10.0	U	U	U	VG-E	VG-E	G-VG	21 days
	11	Pyraclostrobin 17.56%									

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Fungicide Classes: Group 11 = Qo1 Strobilurins; Group 3 = DMI Triazoles; Group 7 = SDHI (succinate dehydrogenase).

Fungicide(s) Class	Active ingredient (%)	Product/Trade name	Rate/A (fl oz)	Anthracnose leaf blight	Common rust	Eyespot	Gray leaf spot	Northern corn leaf blight	Southern rust	Tar spot <sup>1</sup>	Harvest restriction <sup>2</sup>
Mixed Modes of Action	3	Mefenpropidil 11.61%									
	11	Pyraclostrobin 15.49%	Revtek	8.0 - 15.0	U	U	VG-E	VG-E	VG	G-VG	21 days
	7	Fluxapyroxad 7.74%									
	3	Prothioconazole 16.0%	Delaro 325 SC	8.0 - 12.0	VG	E	VG	VG	G-VG	G-VG	14 days
	11	Trifloxystrobin 13.7%									
	3	Prothioconazole 14.9%	Delaro Complete <sup>4</sup> 3.83 SC	8.0 - 12.0	U	U	E	U	VG	G-VG	35 days
	7	Trifloxystrobin 13.1%									
	11	Fluopyram 10.9%									
	7	Pydiflumetofen 7.0%	Miravis Neo 2.5 SE	13.7	U	U	E	VG-E	VG	G-VG	30 days
	11	Azoxystrobin 9.3%									
	3	Propiconazole 11.6%									
	11	Pyraclostrobin 28.58%	Priaxor 4.17 SC	4.0 - 8.0	U	VG	U	VG	VG-E	VG	G-VG <sup>3</sup>
	7	Fluxapyroxad 14.33%									
	11	Pyraclostrobin 13.6%	Headline AMP 1.68 SC	10.0 - 14.4	U	E	E	VG	G	G-VG	20 days
	3	Metconazole 5.1%									
	11	Trifloxystrobin 32.3%	Stratego YLD 4.18 SC	4.0 - 5.0	VG	E	VG	E	VG	G	NL
	3	Prothioconazole 10.8%									
	3	Tetraconazole 7.48%	Affiance 1.5 SC	10.0 - 14.0	U	G-VG	U	G-VG	G-VG	G	G <sup>3</sup>
	11	Azoxystrobin 9.35%									

<sup>1</sup> Fungicide 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 to 2020.

<sup>2</sup> Harvest 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.

<sup>3</sup> 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.

<sup>4</sup> Delaro Complete is not labeled for use on corn in all states as of January 2020.

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