

## DISEASES OF CORN

# Fungicide Efficacy for Control of Corn Diseases

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The Corn Disease Working Group (CDWG) developed ratings for how well fungicides control major corn diseases in the United States. The CDWG determined the efficacy ratings for each fungicide by field-testing the materials over multiple years and locations. Each rating is based on the product's level of disease control and does not necessarily reflect yield increases obtained from applying the product.

A product's efficacy depends on proper application timing, rate, and application method as determined by the product label and overall level of disease in the field. Members of the CDWG determined differences in efficacy among each fungicide product by directly comparing products in field tests using a single application of the labeled rate.

The table includes the most widely marketed products available — it is not intended to be a list of all labeled products. Additional fungicides labeled for use on corn include contact fungicides such as chlorothalonil; other fungicides may be

available for diseases not listed in the table, including Gibberella and Fusarium ear rots.

Many products have specific use restrictions. Restrictions may be present on the amount of active ingredient that can be applied within a period of time or on the number of sequential applications that can occur. Read and follow all use restrictions before 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.*

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# Fungicide Efficacy for Control of Corn Diseases<sup>1</sup>

BP-160-W

| Class                        | Fungicide(s)            |  | Common Rust | Eyespot | Gray Leaf Spot | Northern Leaf Blight | Southern Rust | Harvest Restriction <sup>2</sup> |
|------------------------------|-------------------------|--|-------------|---------|----------------|----------------------|---------------|----------------------------------|
|                              | Active Ingredient (%)   | Trade Name                             |             |         |                |                      |               |                                  |
| QoI Strobilurins<br>Group 11 | azoxystrobin 22.9%      | Quadris 2.08SC®<br>multiple generics   | E           | VG      | E              | G                    | G             | 7 days                           |
|                              | picoxystrobin 22.5%     | Aproach 2.08SC®                        | VG-E        | VG      | F-VG           | VG                   | G             | 7 days                           |
|                              | pyraclostrobin 23.6%    | Headline 2.09EC/SC®                    | E           | E       | E              | VG                   | VG            | 7 days                           |
| DMI Triazoles<br>Group 3     | propiconazole 41.8%     | Tilt 3.6EC®<br>multiple generics       | VG          | E       | G              | G                    | F-G           | 30 days                          |
|                              | prothioconazole 41.0%   | Proline 480SC®                         | VG          | E       | U              | VG                   | G             | 14 days                          |
|                              | tebuconazole 38.7%      | Folicur 3.6F®<br>multiple generics     | U           | NL      | U              | VG                   | F-G           | 36 days                          |
| Mixed Modes<br>of Action     | tetraconazole 20.5%     | Domark 230ME <sup>0</sup>              | U           | U       | E              | U                    | G             | R3 (milk)                        |
|                              | azoxystrobin 13.5%      | Quilt Xcel 2.25E®<br>multiple generics | VG-E        | VG-E    | E              | VG                   | VG            | 30 days                          |
|                              | propiconazole 11.7%     | Quilt Xcel 2.25E®<br>multiple generics | U           | U       | E              | U                    | U             | 30 days                          |
|                              | benzovindiflupyr 10.27% | Trivapro A 0.83 +<br>Trivapro B 2.25E® | U           | U       | E              | U                    | E             | A = 7 days<br>B = 30 days        |
|                              | azoxystrobin 13.5%      | Trivapro B 2.25E®                      | U           | U       | E              | U                    | E             | A = 7 days<br>B = 30 days        |
|                              | propiconazole 11.7%     | Trivapro B 2.25E®                      | U           | U       | E              | U                    | E             | A = 7 days<br>B = 30 days        |
|                              | cyproconazole 7.17%     | Aproach Prima 2.345C®                  | U           | U       | E              | U                    | E             | 30 days                          |
|                              | picoxystrobin 17.94%    | Aproach Prima 2.345C®                  | U           | U       | E              | U                    | E             | 30 days                          |
|                              | flutriafol 19.3%        | Fortix 3.22SC®                         | U           | U       | E              | U                    | E             | R4 (dough)                       |
|                              | fluoxastrobin 14.84%    | Preemptor 3.22SC®                      | U           | U       | E              | U                    | E             | R4 (dough)                       |
| pyraclostrobin 28.58%        | Priaxor 4.175C®         | VG                                     | U           | VG      | U              | G                    | 21 days       |                                  |
| fluxapyroxad 14.33%          | Priaxor 4.175C®         | VG                                     | U           | VG      | U              | G                    | 21 days       |                                  |
| pyraclostrobin 13.6%         | Headline AMP 1.68SC®    | E                                      | E           | E       | VG             | G-VG                 | 20 days       |                                  |
| metconazole 5.1%             | Headline AMP 1.68SC®    | E                                      | E           | E       | VG             | G-VG                 | 20 days       |                                  |
| tetraconazole 7.48%          | Affiance 1.55C®         | U                                      | U           | U       | U              | G                    | 7 days        |                                  |
| azoxystrobin 9.35%           | Affiance 1.55C®         | U                                      | U           | U       | U              | G                    | 7 days        |                                  |
| trifloxystrobin 32.3%        | Stratego YLD 4.18SC®    | E                                      | VG          | E       | VG             | G-VG                 | 14 days       |                                  |
| prothioconazole 10.8%        | Stratego YLD 4.18SC®    | E                                      | VG          | E       | VG             | G-VG                 | 14 days       |                                  |

<sup>1</sup> Efficacy ratings: 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.

<sup>2</sup> Harvest restrictions are for field corn harvested for grain. Restrictions may vary for other types of corn (such as sweet, popcorn), and corn for other uses (such as forage or fodder).