Sequential Fungicide Program in Corn

Protect Yield Potential During the Critical Growth Phases of Corn

**Phase I**
- *Establishment*
  - Laying the Foundation
    - Uniform emergence
    - Early season vigor
    - Root development
  - Yield Component Determined:
    - Plants/Acre

**Phase II**
- *Rapid Vegetative Growth*
  - Building the Factory
    - All leaves developed
    - Root system maximized
  - Yield Component Determined:
    - Rows/Ear: @ V5
    - Kernels/Row: @ V10–12

**Phase III**
- *Pollination & Grain Fill*
  - Operating the Factory for Efficiency
    - Managing stress
    - Maximizing photosynthesis
    - Maintaining stalk strength
  - Yield Component Determined:
    - Weight/Kernel

Yield = Plants/Acre x Ears/Plant x Kernels/Ear x Weight/Kernel
Kernels/Ear = Kernels/Row x Rows/Ear
Priaxor® Fungicide Pre-Tassel Application in Corn

Benefits of Priaxor Fungicide Pre-Tassel

- Early season disease control
- Increases root growth, photosynthesis and leaf health
- Improves stress tolerance

Labeled Crops
- Corn—all types

Rates and Recommendations

Use Rate: 4 fl oz/A

Maximum Applications: 2

Diseases Controlled

- Early season disease control (eg., anthracnose) and additional Plant Health benefits

General Guidelines

- Do not include adjuvants after the V8 stage and before the VT stage of corn growth*

*See modified label for adjustments to this statement.

Enhanced Photosynthesis with Priaxor Fungicide

Fastest Leaf Disc Float Time Equates to Greater Net Photosynthesis

BASF replicated corn leaf disc assay trial. 2013. Leaf discs float, normally. When the air spaces are infiltrated with solution the overall density of the leaf disc increases and they sink. The infiltration solution includes sodium bicarbonate, which serves as the carbon source for photosynthesis. As photosynthesis proceeds oxygen is released into the interior of the leaf which causes discs to rise. The rate that the discs rise is an indirect measurement of the net rate of photosynthesis.

Increased Drought Tolerance from Priaxor Fungicide

BASF replicated greenhouse trial, 2013. Priaxor fungicide (4 fl oz/A), Stratego YLD (2 fl oz/A), Aproach (3 fl oz/A). Foliar applications made to V3-V4 stage corn and drought was induced. Measurements made 6 days after application.

Enhanced Root Growth from Priaxor Fungicide

BASF sponsored replicated trial, Murray State University, Murray, KY 2013. Priaxor fungicide applied at 4 fl oz/A.
Headline AMP® Fungicide Tassel Application in Corn

Benefits of Headline AMP Fungicide

- Delivers the most yield at tassel
- Best-in-class preventative and post-infection disease control
- Improves stalk strength

Labeled Crops
- Corn—all types

Rates and Recommendations

Use Rate: 10 fl oz/A
Maximum Applications: 4

Diseases Controlled

- Late season disease control (eg., gray leaf spot, northern corn leaf blight, common and southern rusts, eyespot) and additional Plant Health benefits (growth efficiency and stress tolerance)

General Guidelines

- Do not include adjuvants after the V8 stage and prior to the VT stage of growth

Best-In-Class Preventative and Post-Infection Disease Control—Gray Leaf Spot

BASF sponsored replicated research trial, Ozora, MO 2013. Headline AMP fungicide (10 fl oz/A) applied at R1.

Extended Grain Fill with Headline AMP Fungicide

Disease free plants stay green longer, resulting in more energy available for grain fill, and lowers lodging potential.

BASF sponsored replicated research trial, Deerfield, MI 2013. Headline AMP fungicide (10 fl oz/A) applied at R1. Photos taken Oct. 4.
**Sequential Fungicide Program—Yield Protection During Multiple Growth Phases**

<table>
<thead>
<tr>
<th>Growth Phase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V6</td>
<td>V6 stage</td>
</tr>
<tr>
<td>V8</td>
<td>V8 stage</td>
</tr>
<tr>
<td>V12</td>
<td>V12 stage</td>
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<tr>
<td>V16</td>
<td>V16 stage</td>
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<tr>
<td>VT</td>
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<td>R1</td>
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<tr>
<td>R2</td>
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<tr>
<td>R4</td>
<td>R4 stage</td>
</tr>
<tr>
<td>R6</td>
<td>R6 stage</td>
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**Adjuvant Recommendations**

<table>
<thead>
<tr>
<th>Adjuvant Flexible</th>
<th>Adjuvant Restricted</th>
<th>Adjuvant Flexible</th>
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</thead>
<tbody>
<tr>
<td>Priaxor fungicide 4 fl oz/A</td>
<td>Headline AMP fungicide 10 fl oz/A</td>
<td></td>
</tr>
</tbody>
</table>

*See modified label for adjustments to this statement.*

**Application Recommendations**

- Priaxor fungicide 4 fl oz/A pre-tassel
  - Timing: V5-V18
- Headline AMP fungicide 10 fl oz/A – Timing: VT-R2
- GPA:
  - Ground: ≥ 10 GPA
  - Aerial: ≥ 2 GPA

**Yield Results from Priaxor Fungicide and Headline AMP Fungicide in Corn**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield (bu/A)</th>
<th>Yield Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td>177.9</td>
<td></td>
</tr>
<tr>
<td>Priaxor V5-V8 fb Headline AMP R1</td>
<td>190.7</td>
<td>+12.8 bu/A</td>
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<tr>
<td>Priaxor V5-V8 fb Headline AMP R1</td>
<td>193.8</td>
<td>+15.9 bu/A</td>
</tr>
</tbody>
</table>


2010, 2012-2013 small plot replicated trials, BASF locations and BASF partially or fully sponsored University and Consultant locations, n=19. Locations: IA (2), IL (4), IN (2), KY, MI, ND, NE (2), SD, TN (2), TX, WI (2).