EFFECTS OF FUNGICIDE AND PLANTING DATE ON SOYBEAN YIELD

TRIAL OVERVIEW

• In many cases, a foliar fungicide application can protect soybean plant health and help maintain the yield potential of the product.

RESEARCH OBJECTIVE

• The objective of this trial is to help determine the effect of a foliar fungicide application on soybean yield potential with respect to planting date.

<table>
<thead>
<tr>
<th>Location</th>
<th>Soil</th>
<th>Previous Crop</th>
<th>Tillage Type</th>
<th>Planting Date</th>
<th>Harvest Date</th>
<th>Potential Yield/Acre</th>
<th>Planting Rate/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monmouth, IL</td>
<td>Silt Loam</td>
<td>Corn</td>
<td>Conventional</td>
<td>04/25/2017</td>
<td>10/18/2017</td>
<td>70 bu/acre</td>
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SITE NOTES:
• The trial used a 3.6 RM soybean product with Roundup Ready 2 Xtend® technology.
• The trial was replicated twice.
• Two planting dates:
  - April 25, 2017
  - May 30, 2017
• Foliar fungicide application dates depended on the plants reaching the R3 growth stage:
  - April 25 planting date was sprayed on July 20, 2017
  - May 30 planting date was sprayed on August 7, 2017

UNDERSTANDING THE RESULTS

Figure 1. Yield response to a fungicide application based on planting period (2017 - Monsanto Learning Center, Monmouth, IL)

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A fungicide application showed little effect on soybean yield in 2017 (Figure 1).

The early planting led to a substantial advantage over the late planting in 2017 (Figure 1).

A very low disease incidence occurred in 2017 because of cooler and drier than normal conditions.

In years such as 2016, when disease incidence was higher, a fungicide application can do more to protect yield potential (Figure 2).

**WHAT DOES THIS MEAN FOR YOUR FARM?**

- The benefit of fungicide applications will vary from year to year.
- Scouting regularly is the recommended way to determine if a fungicide application can be beneficial.
- Over the majority of years, early-planted soybean crops tend to out-perform later-planted crops fairly consistently.
- Early planting assumes that the soil and weather conditions are suitable for seedbed preparation and seed germination.
- Individual fungicide application results may vary based on disease presence. Consult your local seed provider for recommendations.

**SOURCES**


**LEGAL STATEMENT**

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