**FUNGICIDE RESPONSE AND PLANTING DATE IN SOYBEAN**

**TRIAL OVERVIEW**

- In many cases, the application of a foliar fungicide can protect plant health and help maintain the yield potential of a soybean product.
- In past Monsanto Learning Center studies, yield potential has been influenced by planting date and the amount of disease pressure.

**RESEARCH OBJECTIVE**

- This study was developed to help determine the impact 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>04/25/2016</td>
<td>10/17/2016</td>
<td>70 bu/acre</td>
<td>130,000 seeds/acre</td>
</tr>
<tr>
<td>Monmouth, IL</td>
<td>Silt loam</td>
<td>Corn</td>
<td>Conventional</td>
<td>05/23/2016</td>
<td>10/17/2016</td>
<td>70 bu/acre</td>
<td>130,000 seeds/acre</td>
</tr>
</tbody>
</table>

**SITE NOTES:**
- A foliar fungicide containing both a strobiluron and a succinate dehydrogenase inhibitor (SDHI) was applied at R3 growth stage and compared to an untreated check.
- Two replications were planted.

**UNDERSTANDING THE RESULTS**

- Little disease pressure observed in the plots aside from Septoria brown spot (Septoria glycines) and very mild, late occurring sudden death syndrome (SDS) (Fusarium virguliforme).
- Early planting led to substantial yield advantages over late planting (Figure 1).
- Average yield response to a fungicide application was positive, even in the absence of major disease pressure.
- Average yield response to a fungicide application was similar for both planting dates (Figure 1).
- 2016 results mirrored 2015 results.

![Figure 1. Average soybean yield based on the time of planting and fungicide application at R3 growth stage in 2016.](image)

- Average yield response to a fungicide application was positive, even in the absence of major disease pressure.
- Average yield response to a fungicide application was similar for both planting dates (Figure 1).
- 2016 results mirrored 2015 results.
- May 14, 2015 planting date provided a yield advantage compared to the June 2, 2015 planting date across treatments (Figure 2).
- Adding a fungicide application at R3 growth stage increased yield potential.

![Figure 2. Average soybean yield based on the time of planting and fungicide application at R3 growth stage in 2015.](image)

WHAT DOES THIS MEAN FOR YOUR FARM?

- A rigorous crop scouting program is important for accurate and quick identification of developing diseases and determination of appropriate actions including the timely application of a fungicide.
- Fungicide applications have provided yield protection in the absence of disease pressure.
- Regardless of planting date, fungicide applications have helped to protect yield potential.

LEGAL STATEMENT

For additional agronomic information, please contact your local brand representative.

Developed in partnership with Technology, Development & Agronomy by Monsanto.

The information discussed in this report is from a single site, two-replication demonstration. This informational piece is designed to report the results of this demonstration and is not intended to infer any confirmed trends. Please use this information accordingly.

Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto’s Policy for Commercialization of Biotech-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup® Ready technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. Geri® and Vine Design®, Roundup Ready 2 Yield®, Roundup® Ready® and Roundup® are registered trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2016 Monsanto Company.