Advantages of Soybean Seed Treatment

Trial Objective

- The increased interest in lower soybean seeding rates and earlier planting has spurred increased interest in the value of seed treatments.
- Later planting dates may also benefit from the use of soybean seed treatments when lower seeding rates are used.
- The objective of this study was to assess the value of Acceleron® Seed Applied Solutions STANDARD for use in soybean across different planting dates.

Research Site Details

<table>
<thead>
<tr>
<th>Location</th>
<th>Soil Type</th>
<th>Previous Crop</th>
<th>Tillage Type</th>
<th>Planting Date</th>
<th>Harvest Date</th>
<th>Potential Yield (bu/acre)</th>
<th>Seeding Rate (seeds/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monmouth, IL</td>
<td>Silt loam</td>
<td>Corn</td>
<td>Conventional</td>
<td>04/25, 05/18/18</td>
<td>10/04/18</td>
<td>80</td>
<td>130K</td>
</tr>
</tbody>
</table>

- A 2.8 maturity group Roundup Ready 2 Xtend® soybean product was planted on April 25th and May 18th.
- On each date, the product was either treated with Acceleron® Seed Applied Solutions STANDARD or not treated.
- There were two replications for each treatment.

Understanding the Results

- The treatment with Acceleron® Seed Applied Solutions STANDARD, containing a fungicide and insecticide, provided the highest average yield for each planting date:
  - There was an average of a 4.7 bu/acre yield advantage for the early planting date and an average of a 6.7 bu/acre yield advantage for the late planting date when using Acceleron® Seed Applied Solutions STANDARD.

Figure 1. Average yield of a 2.8 MG Roundup Ready 2 Xtend® soybean product as influenced by seed treatment and planting date.
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What Does This Mean for Your Farm?

- Average yield was higher across early and late planting dates when Acceleron® Seed Applied Solutions STANDARD was used.
- While the majority of planting time studies for soybean conducted at the Monmouth Learning Center have found that early planting provides higher yield potential in soybean, that was not the case in this study.
- Protecting your seed investment with Acceleron® Seed Applied Solutions STANDARD may help seedlings establish more quickly, stay healthier, and ultimately result in higher yield potential.

Legal Statements

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

FOR SOYBEANS, each Acceleron® Seed Applied Solutions offering is a combination of separate individually registered products containing the active ingredients: BASIC Offering: metalaxyl, fluxapyroxad, and pyraclostrobin. STANDARD Offering: metalaxyl, fluxapyroxad, pyraclostrobin, and imidacloprid. STANDARD FN Offering: metalaxyl, fluxapyroxad, pyraclostrobin, and tioxazafen. ELITE Offering: metalaxyl, fluxapyroxad, pyraclostrobin, imidacloprid, and tioxazafen.

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ALWAYS READ AND FOLLOW DIRECTIONS FOR USE ON PESTICIDE LABELING. IT IS A VIOLATION OF FEDERAL AND STATE LAW to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans.

Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba.

Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Technology Use Guide for recommended weed control programs.

Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower’s fields.

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