EFFECTS OF PLANTING DATE ON SOYBEAN YIELD

TRIAL OVERVIEW

- Previous work at the Monsanto Learning Center at Monmouth, IL has shown that planting date is an important factor affecting soybean yield.\(^1\)
- An earlier planting date could potentially be a low-risk/high-return soybean management practice.

RESEARCH OBJECTIVE

- The objective of this trial was to evaluate the impact of planting date on soybean yield.

<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>
<td>130,000 seeds/acre</td>
</tr>
<tr>
<td>Monmouth, IL</td>
<td>Silt Loam</td>
<td>Corn</td>
<td>Conventional</td>
<td>05/30/2017</td>
<td>10/18/2017</td>
<td>70 bu/acre</td>
<td>130,000 seeds/acre</td>
</tr>
</tbody>
</table>

SITE NOTES:
- A 3.6 RM Roundup Ready 2 Xtend® soybean product was planted.
- The trial included 5 replications and planting dates of April 25 and May 30, 2017.
- Data from 2015 and 2016 were included in the summaries to show a three-year average.
- Planting dates for the three-year average are recorded as early and late.

UNDERSTANDING THE RESULTS

Figure 1. Soybean yield response to two planting dates at the Monsanto Learning Center at Monmouth, IL in 2017.

- The April 25 planting date in 2017 showed a 5.4 bu/acre advantage (Figure 1).
Early planting has resulted in consistently higher yields for the past three years (2015-2017) with an average yield advantage of 4 bu/acre (Figure 2).

Although growing conditions change annually, the results at the Monsanto Learning Center at Monmouth, IL, generally agree with university planting date information.¹

WHAT DOES THIS MEAN FOR YOUR FARM?

• Early-planted soybean crops tend to out-perform later-planted soybean crops fairly consistently.
• Early planting assumes that the soil and weather conditions are suitable for seedbed preparation and seed germination.

SOURCES

Websites verified 11/9/17. 171103103817

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 demonstration trial. 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 Biotechnology-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. 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 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. Glyhosphate 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 Monsanto dealer or refer to Monsanto’s Technology Use Guide for recommended weed control programs. 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 2 Xtend® is a registered trademark of Monsanto Technology LLC. All other trademarks are the property of their respective owners. ©2017 Monsanto Company All Rights Reserved. 171103103817 120517LGM