



Fungicide and Planting Date in Soybean

Trial Objective

- Early planting may help maximize soybean yield potential when soil and weather conditions are suitable for seedbed preparation and seed germination.
- In many cases, the application of a foliar fungicide can protect plant health and help maintain yield potential.
- The Monmouth Learning Center has been conducting trials for the past two years to evaluate the effects of planting date and an application of Delaro® 325 SC foliar fungicide on soybean yield potential.

Research Site Details

Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield (bu/acre)	Planting Rate (seeds/acre)
Monmouth, IL	Silt loam	Corn	Conventional	4/24/19, 6/3/19	10/15/19	70	130K
Monmouth, IL	Silt loam	Corn	Conventional	4/25/18, 5/18/18	10/17/18	70	130K

- A 3.6 MG Roundup Ready 2 Xtend® soybean product was planted on two dates each year of this experiment as indicated in chart above un planting date(s).
- Both plantings consisted of two treatments:
 - o 8 oz/acre of Delaro® 325 SC fungicide applied at R3
 - o An untreated check
- There were two replications of each treatment.
- Plots were harvested and adjusted to 13% moisture.
- Disease incidence was very low in the plots in 2019. A prolonged dry period from late June through early August may have been a major factor.

Understanding the Results

- In 2019, the late-planted plots yielded higher than the early-planted plots, which is not typical of the planting date trials conducted at the Learning Center. The early-planted plots may have been affected by the prolonged cold, wet conditions at the beginning of the 2019 growing season.
- Early plantings tended to benefit much more from the fungicide application.



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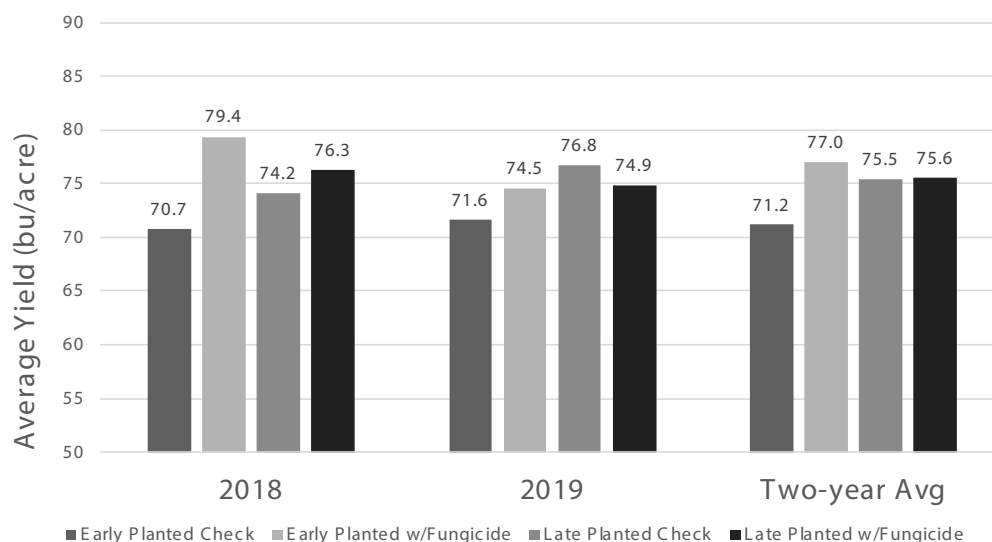


Figure 1. Soybean fungicide by planting date.

Key Learnings

- In Learning Center trials, over the majority of years, early planted soybean tends to out-perform later planted soybean.
- When planting early, it is important that soil and weather conditions are suitable for seedbed preparation and seed germination.
- Scouting regularly is always the best way to determine if a fungicide application will be beneficial.
- The benefit of a fungicide application will vary from year to year and individual fungicide application results may vary based on disease presence as well as weather and soil conditions. Consult your local Field Sales Representative or Technical Agronomist for recommendations.

Legal Statements

The information discussed in this report is from a single site, replicated 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.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. 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 or cotton with XtendFlex® Technology.

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.

Roundup Ready 2 Xtend® soybeans contain 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. Contact your seed brand dealer or refer to the Monsanto Technology Use Guide for recommended weed control programs.

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