



2015 Demonstration Report

MONSANTO LEARNING CENTER AT MONMOUTH, IL

Fungicide Application Yield Response by Soybean Planting Dates

Study Guidelines

The objectives of this trial included the following:

- Determine if there was a yield response to soybean planting dates.
- Determine if there was a yield response to fungicide application.
- Determine if there was a yield response to the interaction between soybean planting dates and fungicide application.

A 3.8 relative maturity (RM) soybean product was planted at 130,000 seeds/acre in 30-inch rows. The previous crop was corn and field preparation included fall chisel plow followed by a spring soil finisher. Weeds were uniformly controlled using a residual/POST control program. Plots were harvested on October 13, 2015.

Treatments

- Planting Dates
 - May 14, 2015
 - June 2, 2015
- Fungicide Application
 - 8 fl oz/acre of Priaxor® Xemium® Brand Fungicide applied at beginning pod (R3) growth stage
 - May 14 planting date had a July 21 fungicide application
 - June 2 planting date had a July 28 fungicide application
 - Untreated check
- Four rows, 100 feet long, of each treatment were planted with two replications at one location.





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Take-Aways

- Minimal soybean foliar disease symptoms were observed throughout the trial.
- May 14 planting provided a yield advantage compared to the June 2 planting across treatments.
- Adding a fungicide application at R3 growth stage increased yield potential.
- Soybean from both planting dates treated with Priaxor® Xemium® Brand Fungicide demonstrated a similar yield increase.
- The yield increase may have been influenced by the cool, wet growing season.
- In contrast, a previous trial at the Monsanto Learning Center at Monmouth, IL indicated that a April 18 planting date benefited more from a fungicide application as compared to a June 2 planting date.¹

Sources

- ¹ Effect of foliar fungicide use on soybean yield. 2010. Learning Center Summary. Technology Development & Agronomy. <http://www.monsanto.com/products/documents/learning-center-research/2010/>
- ² Thompson, A., Walker, E., and Mengistu, A. 2007. Interactions of planting dates, seeding rate, and fungicide and insecticide treatments on soybean yield and yield components. United Soybean Board. <http://www.soybeancheckoffresearch.org/>
- ³ Bestor, N.R., Robertson, A.E., and Mueller, D.S. 2014. Effect of Foliar fungicides on late-season anthracnose stem blight on soybean. Plant Health Progress. Plant Management Network. <https://www.plantmanagementnetwork.org/>
Web sources verified 11/13/15.

Legals

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.

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.

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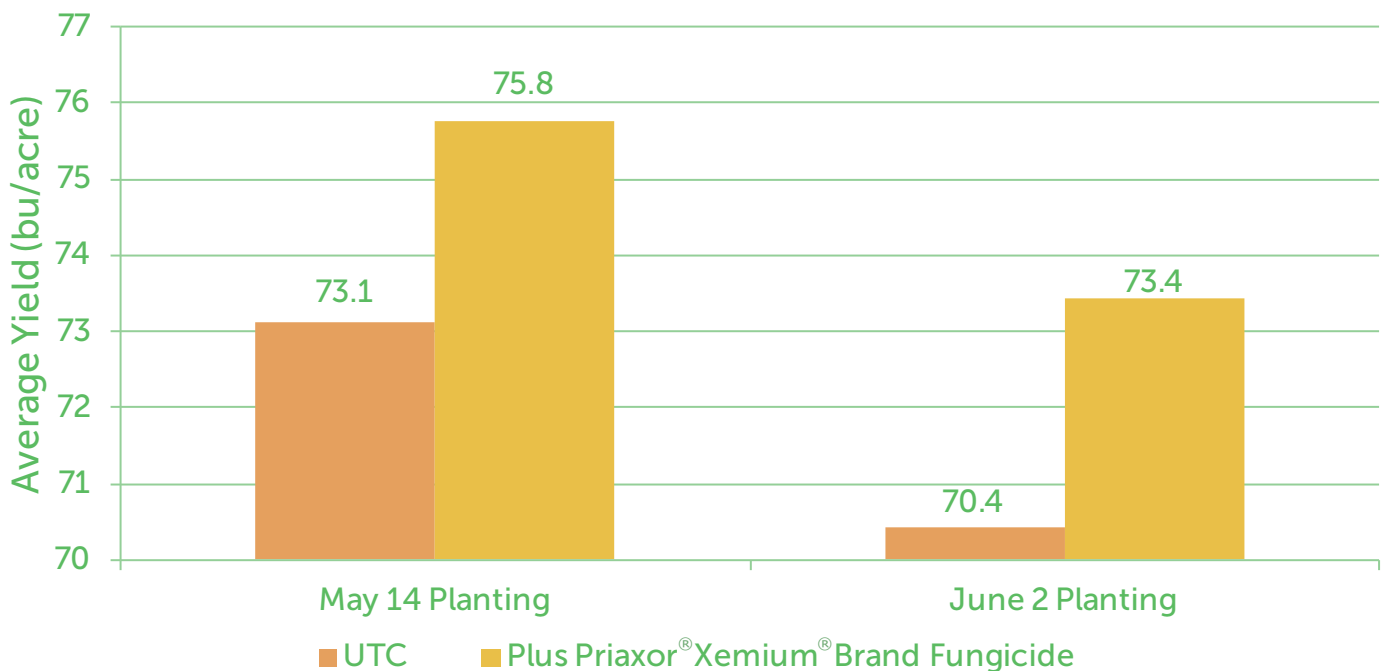


Figure 1. Average Yield Response to Fungicide Application by Soybean Planting Dates