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.

Location	Soil	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield/Acre	Planting Rate/Acre
Monmouth, IL	Silt Loam	Corn	Conventional	04/25/2017	10/18/2017	70 bu/acre	130,000 seeds/acre
Monmouth, IL	Silt Loam	Corn	Conventional	05/30/2017	10/18/2017	70 bu/acre	130,000 seeds/acre

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

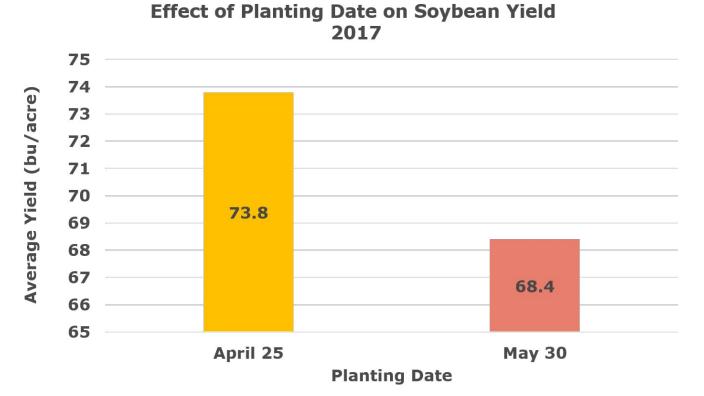


Figure 1. Soybean yield response to two planting dates at the Monsanto Learning Center at Monmouth, IL in 2017.

• The April 25 planting date in 2017 showed a 5.4 bu/acre advantage (Figure 1).

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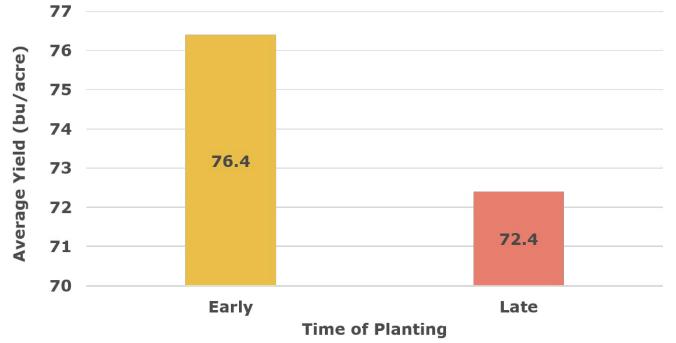


Figure 2. Soybean yield response to early and later planting dates at the Monsanto Learning Center at Monmouth, IL for the years 2015-2017.

- 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.²

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

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1 Fungicide response and planting date in soybean. 2016. Demonstration Report. Monsanto Learning Center at Monmouth,

IL. https://monsanto.com/app/uploads/2017/05/fungicide-response-planting-date-soybean.pdf.

2 Nafziger, E. 2017. Planting date for corn and soybeans in Illinois. The Bulletin. University of Illinois. http://bulletin.ipm.illinois.edu/?p=3848. Websites verified 11/9/17.171103103817

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