

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

Effect of Planting Date on Soybean Yield 2017

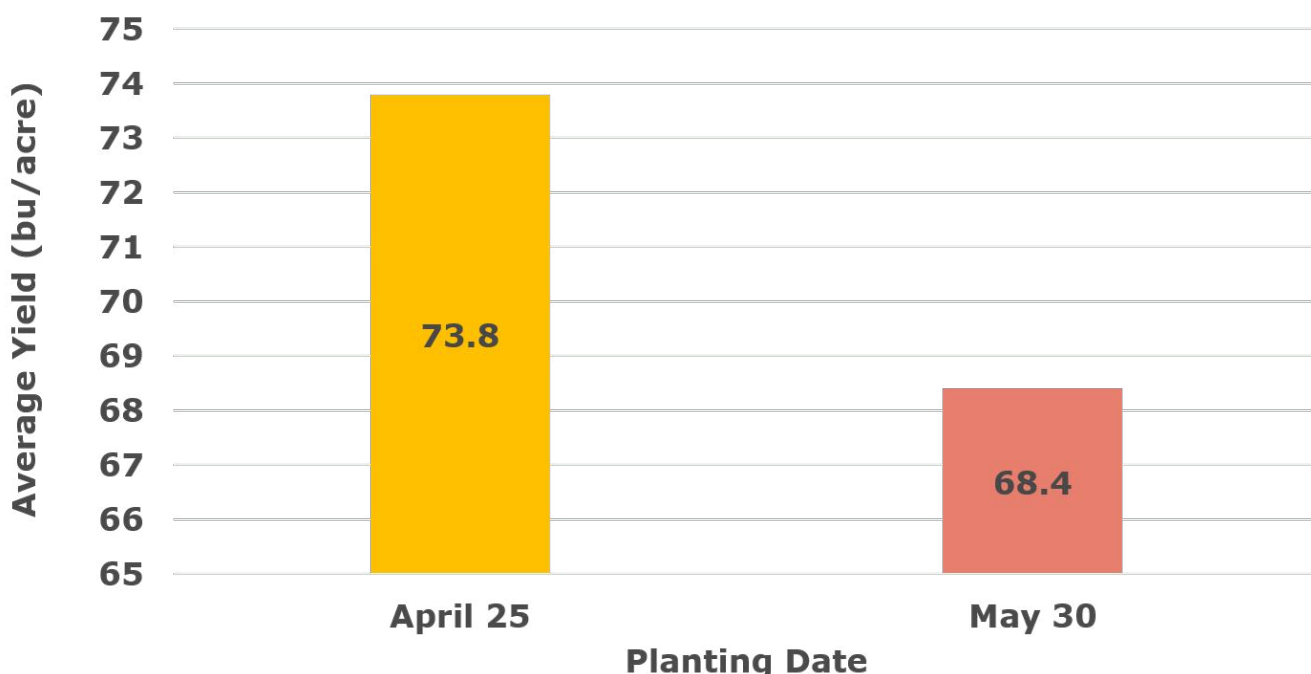


Figure 1. Soybean yield response to two planting dates at the Monsanto Learning Center at Monmouth, IL in 2017.

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

Effect of Planting Date on Soybean Yield 2015-2017

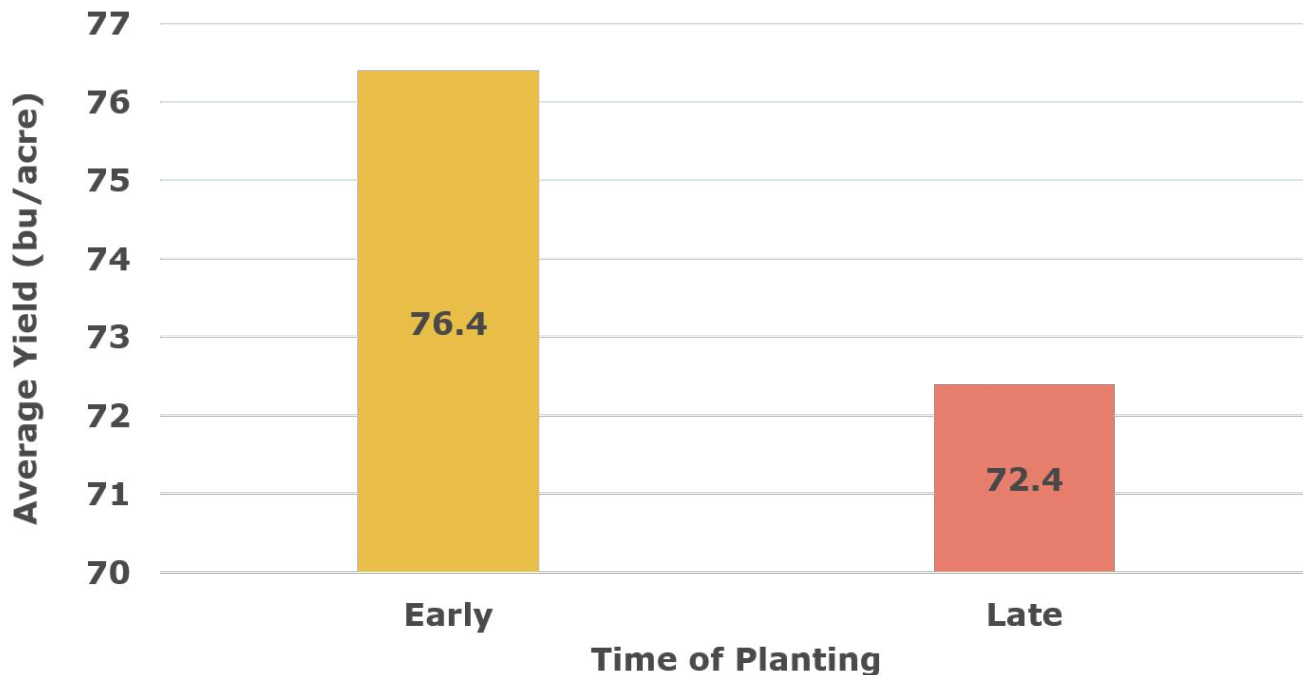


Figure 2. Soybean yield response to early and later planting dates at the Monsanto Learning Center at Monmouth, IL for the years 2015-2017.

- 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

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

LEGAL STATEMENT

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