THE VALUE OF PROPER PLANTER SETTINGS

TRIAL OVERVIEW

- · Previous work at the Learning Center has shown the importance of even emergence in corn:
 - Impact of Uneven Emergence in Corn.¹
 - Uneven Emergence in Corn.²
- · Various planter attachments and settings can affect seed placement, seed/soil contact, and the quality of the seedbed. These factors can impact the evenness of seedling emergence and stand establishment.

RESEARCH OBJECTIVE

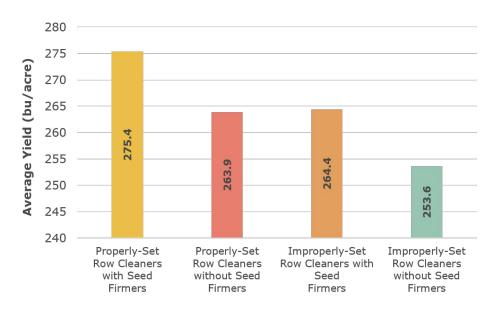
• This trial was designed to measure the yield impact of seed firmers and properly-set row cleaners.

Location	Soil	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield/Acre	Planting Rate/Acre
Monmouth, IL	Silt loam	Corn	No-till	05/17/2017	10/17/2017	240+ bu/acre	36,000 seeds/acre

SITE NOTES:

- Four treatments were tested:
 - Properly-set row cleaners with seed firmers.
 - Properly-set row cleaners without seed firmers.
 - Improperly-set row cleaners (not enough pressure) with seed firmers.
 - Improperly-set row cleaners (not enough pressure) without seed firmers.
- The trial was replicated twice.

UNDERSTANDING THE RESULTS



Planter Setttings

Figure 1. Value of Proper Planter Settings

- In this trial, each missing component resulted in a loss of approximately 10 bu/acre (Figure 1).
- Both components combined resulted in a loss of approximately 20 bu/acre (Figure 1).
- Visual differences in plant stand and height were apparent throughout the season (Figures 2 and 3).



Demonstration Report

MONSANTO LEARNING CENTER AT MONMOUTH, IL





Figure 2. Improperly-set row cleaners without seed firmers (left) and properlyset row cleaners with seed firmers (right).

set row cleaners with seed firmers (right).

WHAT DOES THIS MEAN FOR YOUR FARM?

- · Accurate seed placement, good seed/soil contact, and a clean seed bed are important factors in enabling corn seedlings to establish quickly and begin growing vigorously.
- Attachments such as seed firmers can help improve seed/soil contact, leading to better establishment, even emergence, and potentially higher yields.
- · Properly-set row cleaners can also provide an environment where seedlings can emerge quickly and evenly. This can have a positive impact on yield potential.

SOURCES

1 Impact of Uneven Emergence in Corn. 2016. https://monsanto.com/app/uploads/2017/05/impact-uneven-emergence-corn.pdf 2 Uneven Emergence in Corn. 2016. https://vimeo.com/214841338

LEGAL STATEMENT

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