Trial Objective

- Corn products can respond differently to seeding rates depending on their ability to 'flex' ear size and their ability to compete for resources.
- The Bayer Learning Center at Monmouth, IL conducts annual trials and demonstrations to illustrate different responses to seeding rates.

Research Site Details

Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield (bu/acre)	Seeding Rate (seeds/acre)
Monmouth, IL	Silt loam	Soybean	Conventional	6/7/19	10/29/19	250	28K, 32K, 36K, 40K

- Three different SmartStax® RIB Complete® corn blend products were planted at four seeding rates (seeds/acre):
 - 28,000 »
 - 32,000 »
 - 36,000 »
 - 40.000 »
- Plots were harvested and adjusted to 15% moisture.

Understanding the Results

seeding rates at

IL in 2019.

- The three corn products in this demonstration typified the differences that we see across different products.
 - The 107-day relative maturity (RM) product yielded the lowest, did not respond positively to increased » seeding rates, and lodged badly at higher seeding rates (Figures 1 and 2).
 - The 111-day RM product performed at the same level regardless of seeding rate. »
 - The 116-day RM product responded positively to an increase in seeding rates, yielding the highest overall » at the 40,000 seeds/acre seeding rate.



Seeding Rates (seeds/acre) and Product Relative Maturities (Days RM)

Corn Response to Seeding Rate

Key Learnings

- Individual corn products can respond differently to different seeding rates depending on several factors including:
 - » Genetic ability to compete for resources
 - » Pest pressure and trait packages
 - » Weather and growing conditions
- Please consult your local Field Sales Representative or Technical Agronomist for specific recommendations for your farming operation.

Legal Statements

The information discussed in this report is from a single site, non-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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Figure 2. The 107-day RM product lodged badly at higher seeding rates.

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