



## 2014 DEMONSTRATION REPORT

### Monsanto Learning Center at Monmouth, IL

# Soybean Row Spacing by Population

## Study Guidelines:

- A soybean demonstration trial was conducted at the Monsanto Learning Center at Monmouth, IL, evaluating the effects of row spacing and plant population on soybean yield potential.
- Two soybean products were planted (2.9 RM and 3.5 RM).
- Each soybean product was planted at populations of 156,000 seeds/acre and 170,000 seeds/acre, in row configurations of: 15-inch, 20-inch, 30-inch, and twin.
- Each trial consisted of two replications.
- Soybeans were planted on May 27, 2014 and harvested on October 22, 2014.
- Fields were chisel plowed in the fall.
- A soil finisher was used to establish a seedbed in the spring.
- Soybeans were planted following corn.

## Row Configurations



15-inch



20-inch



30-inch



Twin

## Key Messages

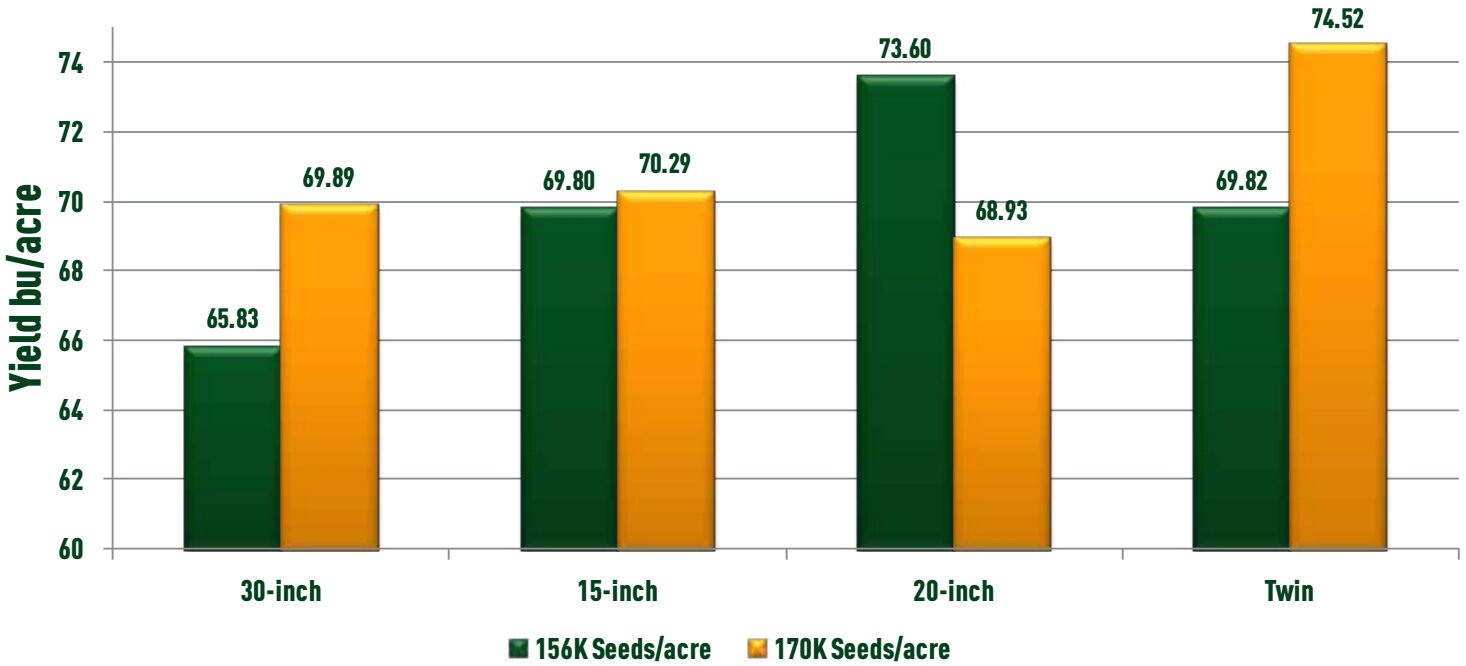
- Twin rows produced the highest yields with the 3.5 RM soybean product at both plant populations.
- Twin rows produced the highest yields for both the 3.5 RM and the 2.9 RM products at a population of 170,000 seeds/acre..
- Narrow rows (15-inch, 20-inch, and twin) produced higher yields than wider, 30-inch rows. This is consistent with results from multiple row spacing trials over the past several years at Monmouth
- The yield advantage in narrow rows and twin rows may be attributed to better weed control with earlier canopy closure and increased sunlight interception.
- Multiple years of data from the Monsanto Learning Center at Monmouth, IL have shown high soybean yields at both high and low populations.
- The Learning Center will continue to conduct trials to determine the optimum combination of soybean plant populations and row spacing.



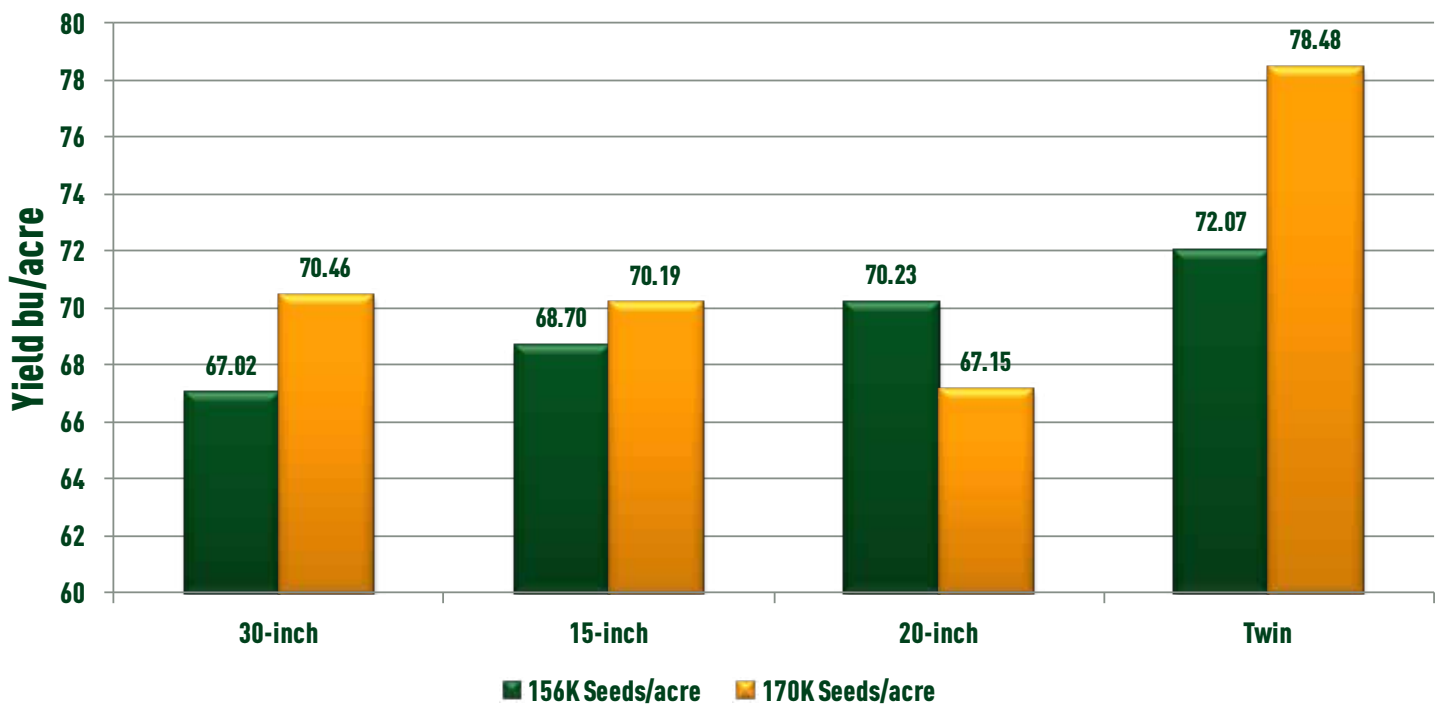
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Population x Row Spacing 2.9 RM



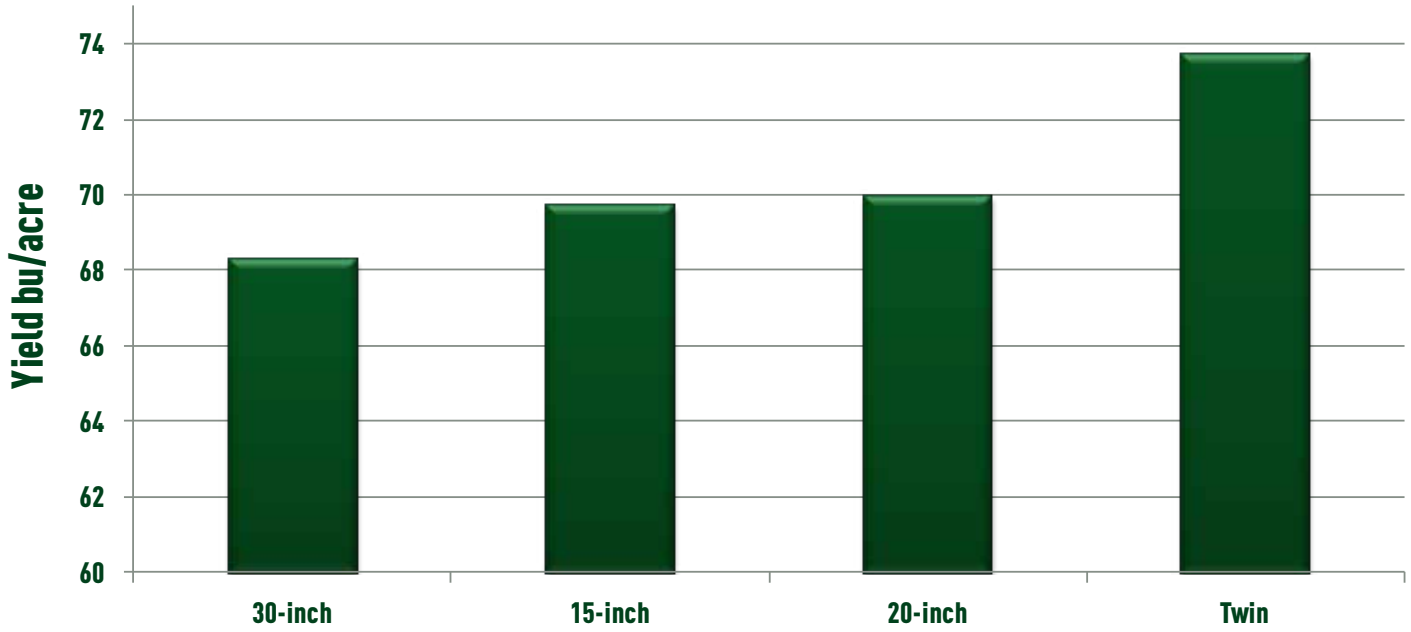
Population x Row Spacing 3.5 RM



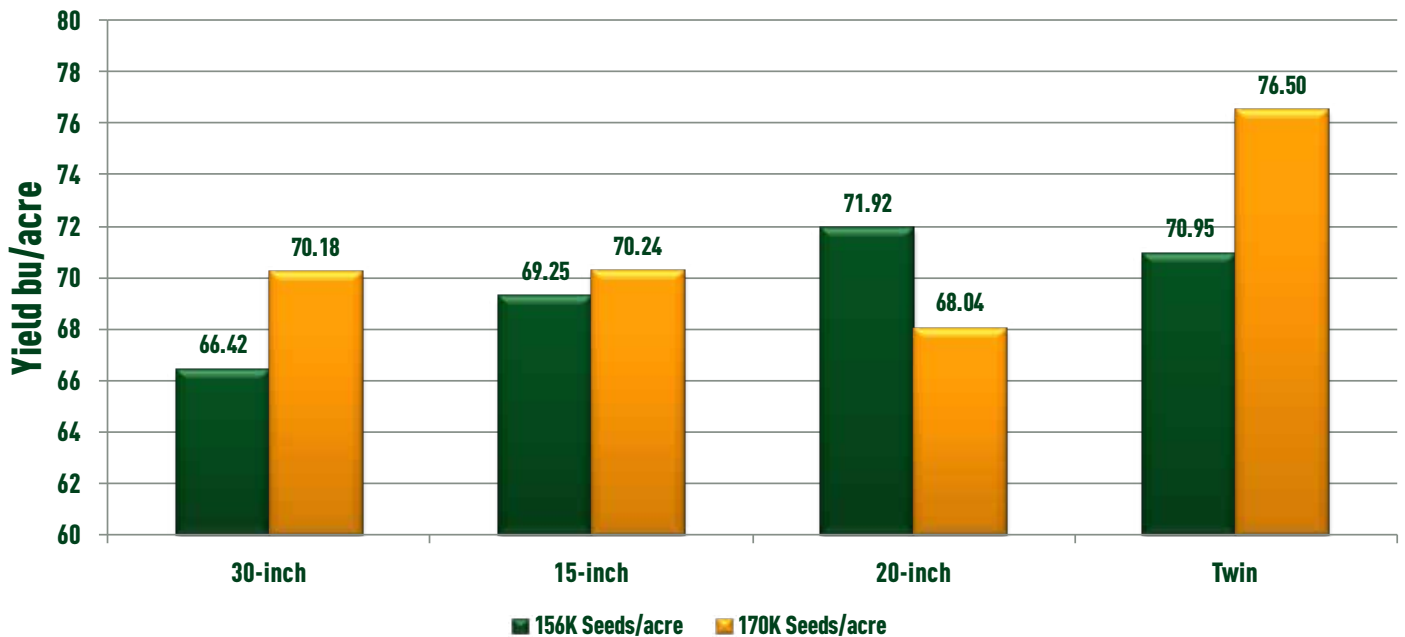
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### Soybean Row Spacing by Population



Soybean Row Spacing Average Yield of Two Products and Two Populations



Population x Row Spacing Average Yield of Two Soybean Products

### 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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