Response of Asgrow® Brand Soybean Products to Population and Row Configuration

2014 Learning Center Demo Report

Monsanto Learning Center at Scott, MS

Study Guidelines

- A demonstration trial was conducted at the Monsanto Learning Center at Scott, MS to evaluate how Asgrow® brand soybean products respond to planting populations and row configurations.
- Seven Asgrow® soybean brands (AG4232, AG4531, AG4533, AG4632, AG4633, AG4934, and AG5332), ranging from 4.1 RM to 5.3 RM respectively, were each planted on May 5, 2014 in two row configurations :
  - 30-inch single
  - 38-inch twin (7.5 inches apart on 38-inch beds).
- Each product was planted at two populations in each row configuration:
  - 110,000 seeds/acre
  - 150,000 seeds/acre
- Standard agronomic practices for the area were implemented with irrigation provided as needed.

Results and Conclusions

- Soybeans planted in 38-inch twin rows produced slightly higher yields than soybeans planted in 30-inch rows.
- This is likely in response to superior drainage in the wider bed system.
- In most cases, population did not have a significant impact on yield.
- This observation is consistent with results from similar studies conducted in previous years.

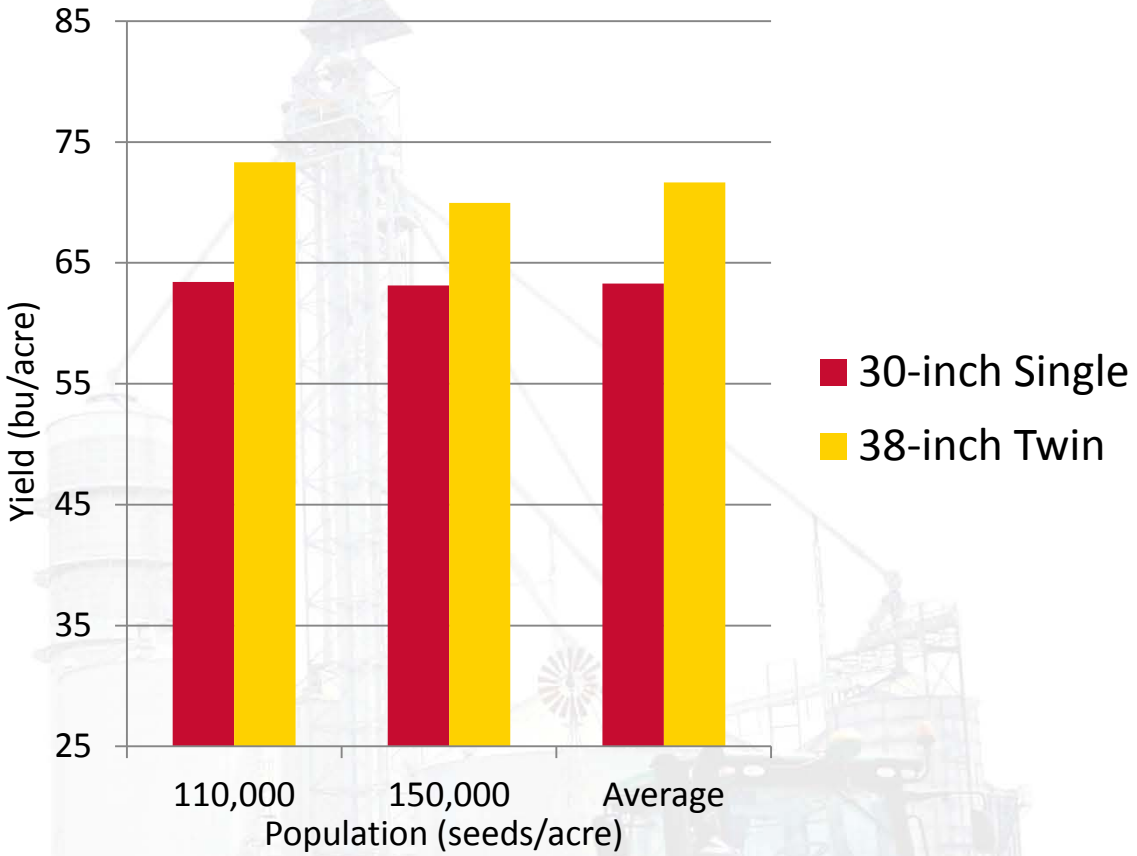

Figure 1. Average yield of soybean products to two populations in two row configurations.

Results and Conclusions

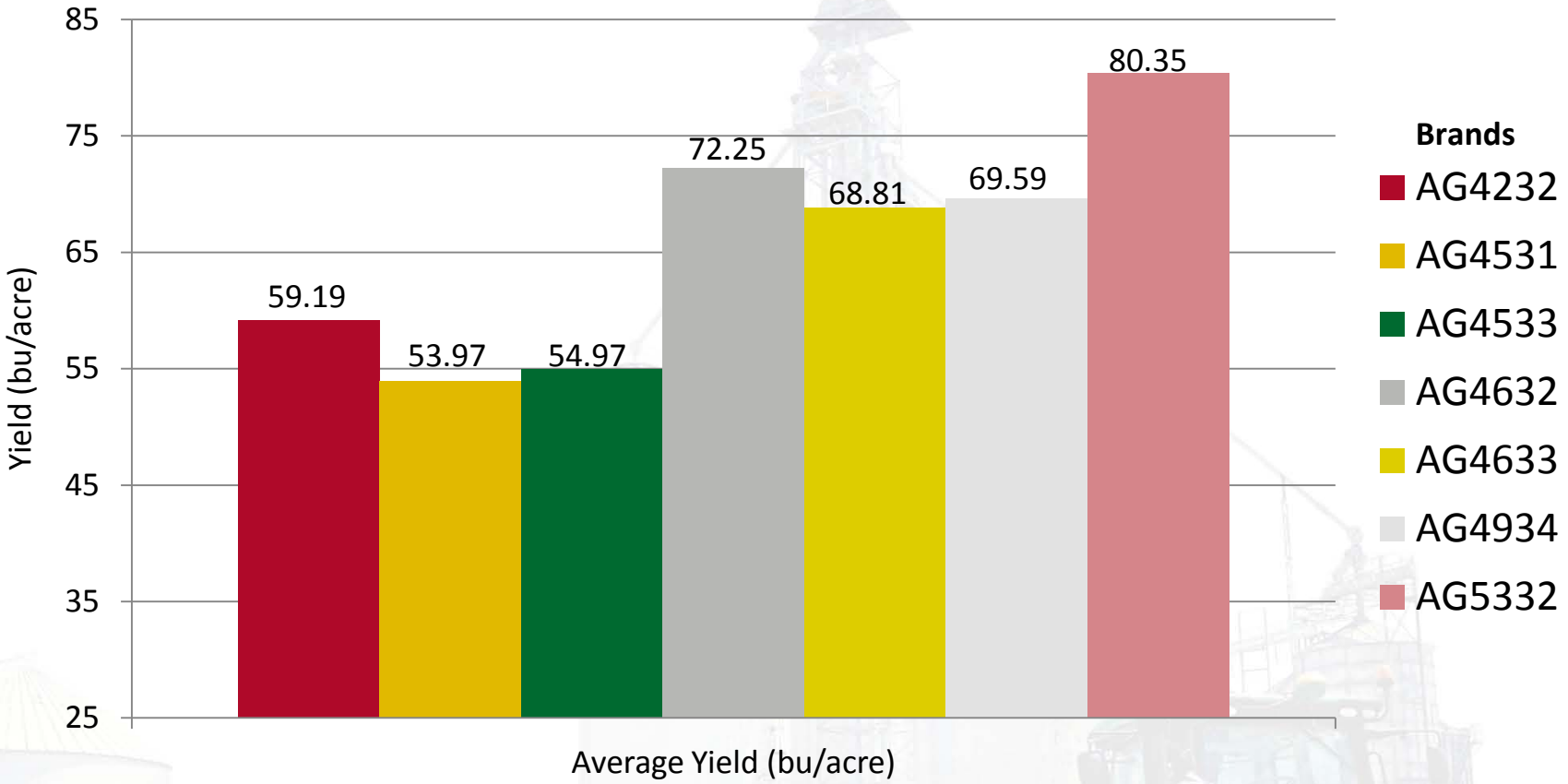

Figure 2. Average yield of each of seven soybean brands across two populations and two row configurations.

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Summary Comments

- Results of this demonstration trial indicated that row configuration may have more of an impact than planting population on yield potential in Mid-south soybean production.
- The relationship of row configuration and drainage can have an impact on soybean plant health and final stand.
- 38-inch beds can provide improved drainage, and twin rows can help soybean plants respond better to higher planting populations.
- However, soybean products that perform well in various row configurations and at various populations are available to Mid-south soybean growers.
- Growers should evaluate soybean products to determine which products have the highest probability of performing well in a specific combination of row spacing and plant population.

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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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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THANK YOU

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