



Response of Asgrow[®] AG47X6 Brand to Three Planting Configurations and Multiple Populations

2017 Learning Center Demo Report
Monsanto Learning Center at Scott, MS





BACKGROUND

- Midsouthern growers have many questions about row configuration and planting population in soybeans. This demonstration was conducted in cooperation with Mississippi State University to provide information to help growers with making decisions both when considering equipment choices and at planting.



BACKGROUND

OBJECTIVE:

- Evaluate the yield potential of soybeans planted in 3 different row spacings and at multiple populations.
- Evaluate the response of Asgrow[®] AG47X6 brand to planting population.



STUDY GUIDELINES

Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield	Planting Rate
Scott, MS	Clay Loam	Corn	Conventional	5/11/2017	10/12/2017	75 bu/acre	Various



STUDY GUIDELINES

Row Configurations planted:

- 38-inch single row plantings
- 38-inch x 7.5-inch twin row plantings
- 30-inch single row plantings

Plot sizes:

- Four 38-inch rows, 125 feet long (about .05 acre/plot)
- Eight 30-inch rows, 125 feet long (about .05 acre/plot)

• Populations planted included:

- 100,000 seeds planted/acre
- 120,000 seeds planted/acre
- 140,000 seeds planted/acre
- 160,000 seeds planted/acre
- 180,000 seeds planted/acre
- 200,000 seeds planted/acre
- Emergence was about 80%
- All agronomic inputs were per local standards.



RESULTS & DISCUSSION

- These results agree with previous demonstrations at the Monsanto Learning Center at Scott, MS, in that:
 - Twin-row plantings generally exhibit higher yield potential than other row configurations.
 - Soybeans planted in twin-rows produced the highest yields when planted at populations of 120,000 to 140,000 seeds/acre.



RESULTS & DISCUSSION

- Responses to row configurations also agree with previous demonstrations, including the following commentary:
 - 30-inch single rows appeared to pay some penalty in yield. This is likely due to issues with drainage, which is an issue in most of the coastal US.
 - 38-inch single rows were intermediate in yield to the other row configurations. This is best explained by increased drainage but a decreased ability to optimally intercept light i.e. shade the middle.
 - 7.5-inch x 38-inch twin rows demonstrated the highest yield potential in the trial. This is explained by the optimal tradeoff in drainage and light interception in the wide twin rows.
- These results are similar to previous demonstrations at the Monsanto Learning Center at Scott, MS.



RESULTS & DISCUSSION

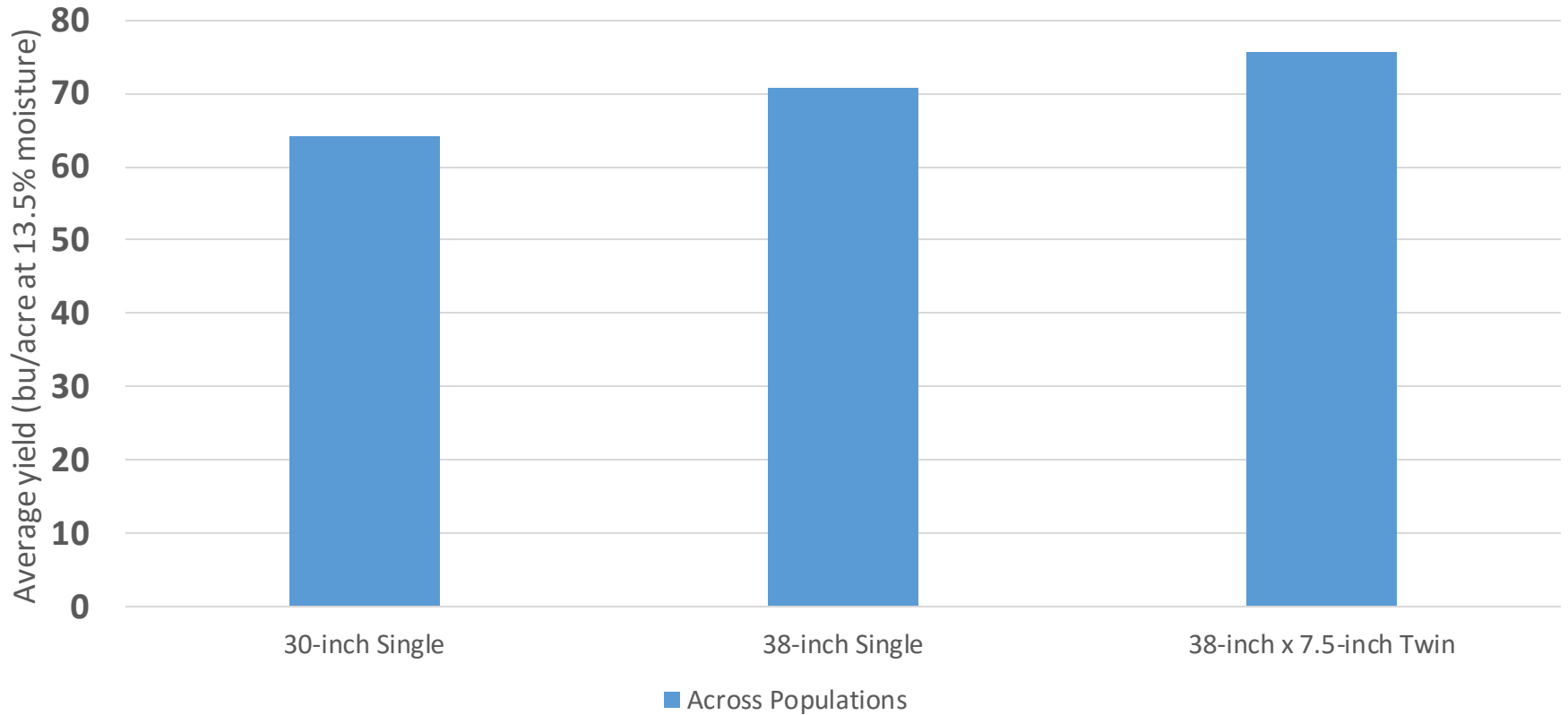


Figure 1. Average yield of Asgrow® AG47X6 brand by planting configuration across populations when planted on 5/11/2017.



RESULTS & DISCUSSION

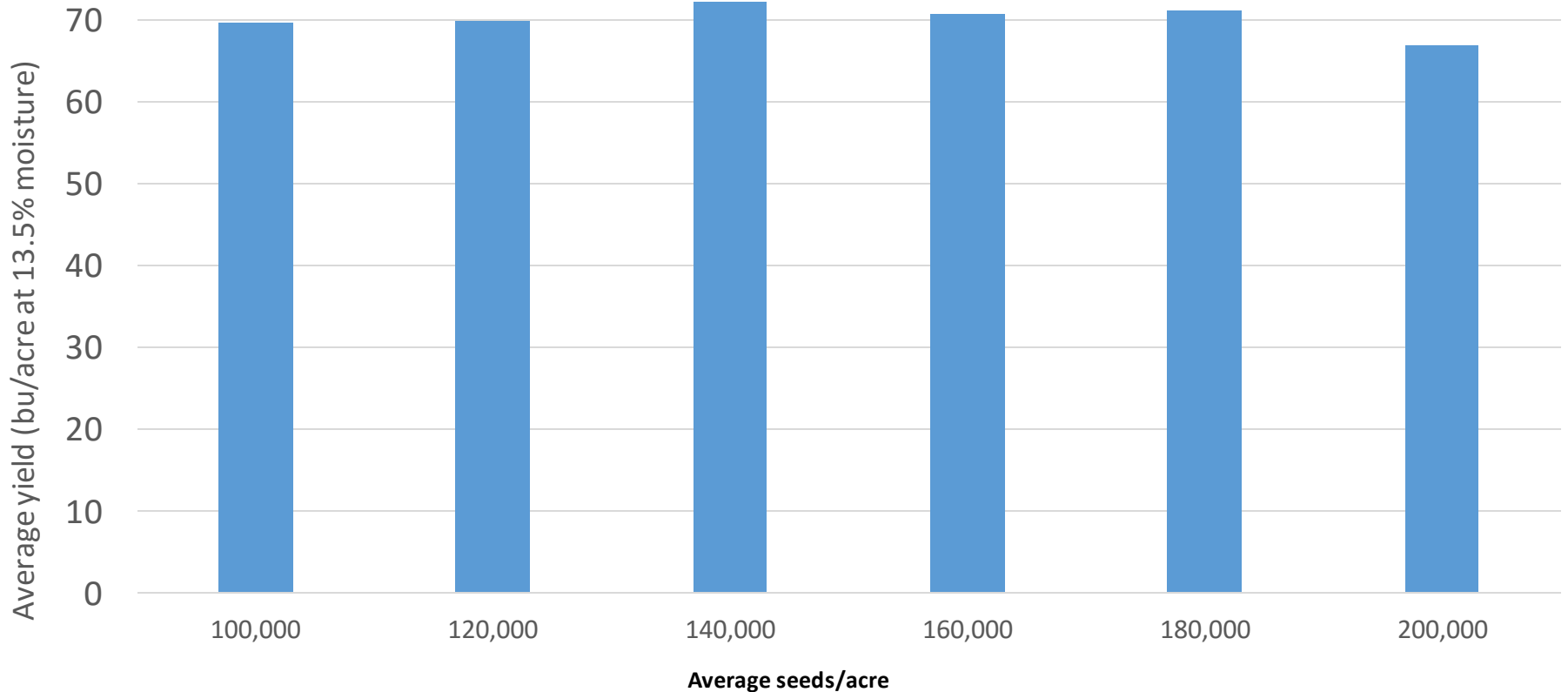


Figure 2. Average yield response of Asgrow® AG47X6 brand to planting populations across row configurations.



RESULTS & DISCUSSION

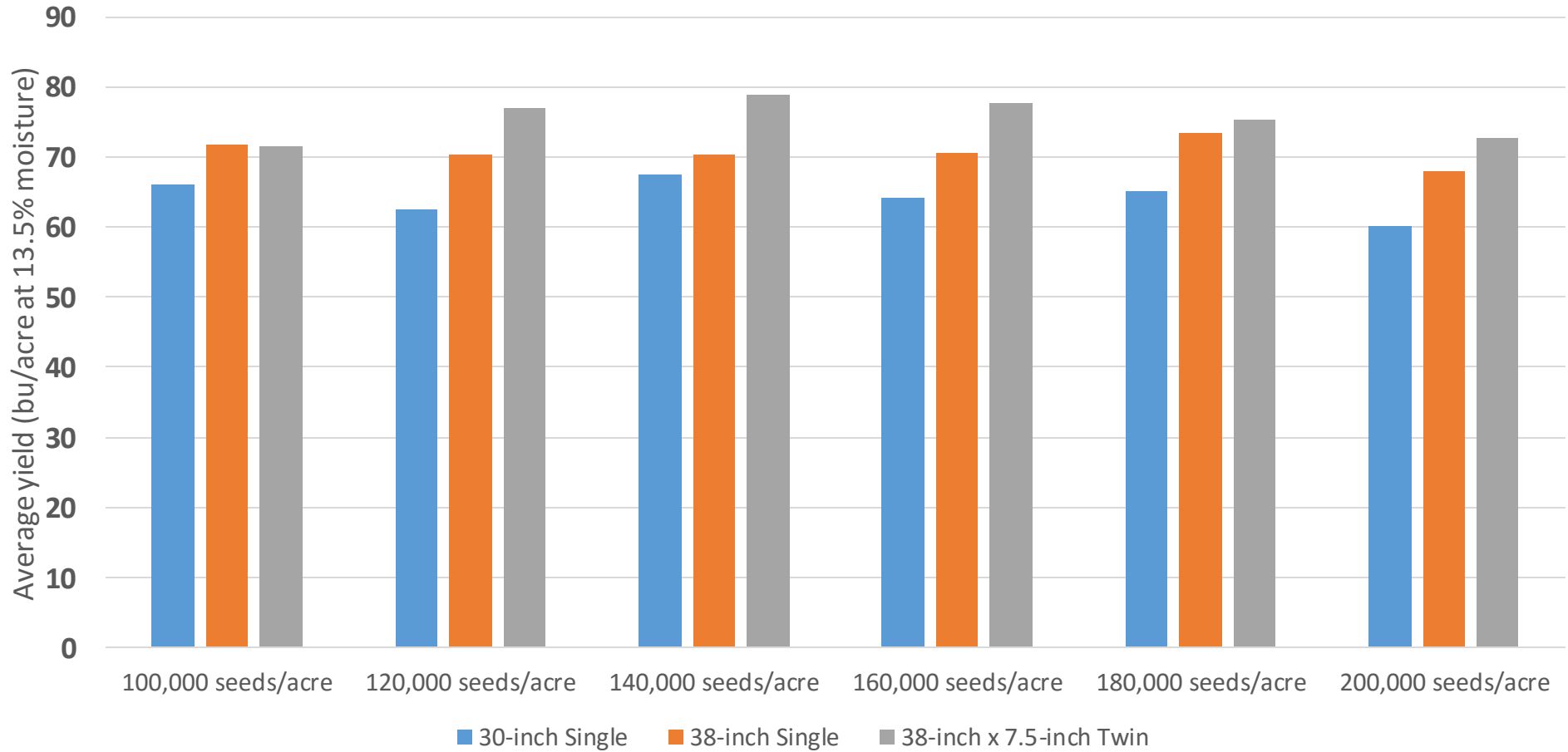


Figure 3. Average yield response of Asgrow® AG47X6 brand to row configuration by population.



RESULTS & DISCUSSION

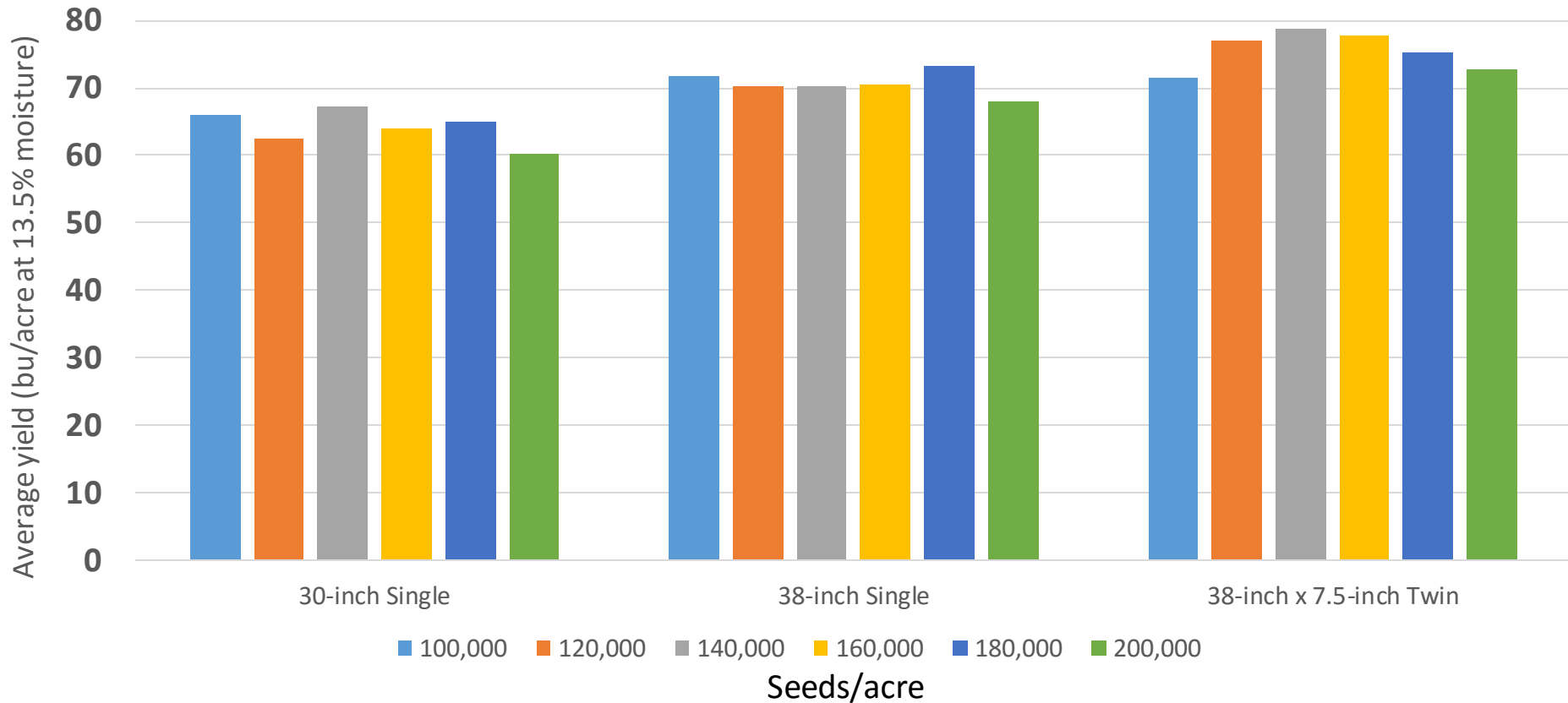


Figure 4. Average yield response of Asgrow AG47X6 brand to row configuration by population.



LEGAL STATEMENTS

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.

Always read and follow grain marketing and all other stewardship practices and pesticide label directions. Asgrow and the A Design® , Asgrow®, DEKALB and Design® and DEKALB® are registered trademarks of Monsanto Technology LLC. Deltapine® is a registered trademark of Monsanto Company. All other trademarks are the property of their respective owners.
©2017 Monsanto Company All Rights Reserved. 171025091510 110117JEH.



THANK YOU

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.

