



# Response of ASGROW® AG46X6 Brand to Skippy Stands in Twin-Row and Single-Row Plantings – AKA “The Skipulator”- 2017- Scott, MS

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





# BACKGROUND

- Previous learning center demonstrations have indicated that soybeans have the ability to compensate yields in response to a wide variety of issues that occur in the field.
- Twin-row plantings have increased in the mid- southern planting system, resulting in questions about the effects of skippy stands that sometimes occur.
- This demonstration was designed as a follow-up to previous work done with twin-row plantings with additional data and incorporating into the data a set of treatments planted in single rows.



# BACKGROUND

## Objective:

- Evaluate the yield compensation ability of soybeans planted in single- and twin-row systems, at a variety of populations, and with several skippy stand configurations.



# BACKGROUND

Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield bu/acre	Planting Rate
Scott, MS	Clay Loam	Soybeans	Conventional	5/10/2017	10/20/2017	60-70	Various



# STUDY GUIDELINES

- This demonstration included treatments with planting rates ranging from 60,000 to 150,000 seeds planted/acre.
- Single rows were on a 38-inch row spacing and were planted using conventional single-row planters.
- Twin rows were planted using Monosem<sup>®</sup> planters on 38-inch rows with 7.5 inches between twin rows on the bed.
- Plots were 6 rows x 175 feet long for a plot of approximately 0.1 acre/plot.
- Skips were introduced into the planted plots by blocking holes in planter plates prior to planting. This was done using the “Skipulator” spreadsheet which is an original Monsanto Learning Center at Scott, MS idea.



# STUDY GUIDELINES

## Treatment List:

- 60,000 seeds with 12-inch skip
- 60,000 seeds with 24-inch skip
- 60,000 seeds with 36-inch skip
- 60,000 seeds, solid
- 90,000 seeds with 12-inch skip
- 90,000 seeds with 24-inch skip
- 90,000 seeds, solid
- 120,000 seeds with 12-inch skip
- 120,000 seeds, solid
- 150,000 seeds with 1-inch skip
- 150,000 seeds, solid



# RESULTS & DISCUSSION

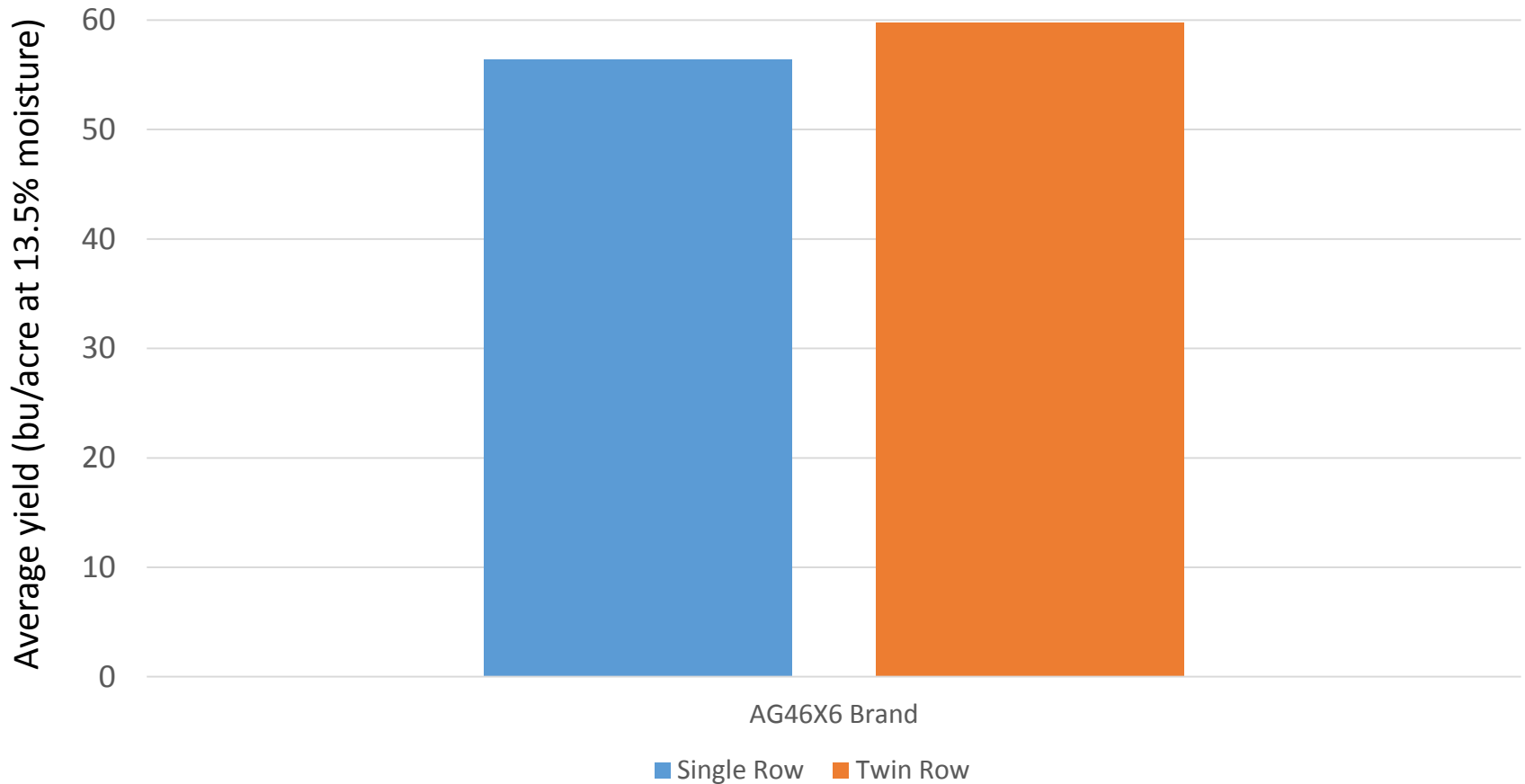


Figure 1. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.



# RESULTS & DISCUSSION

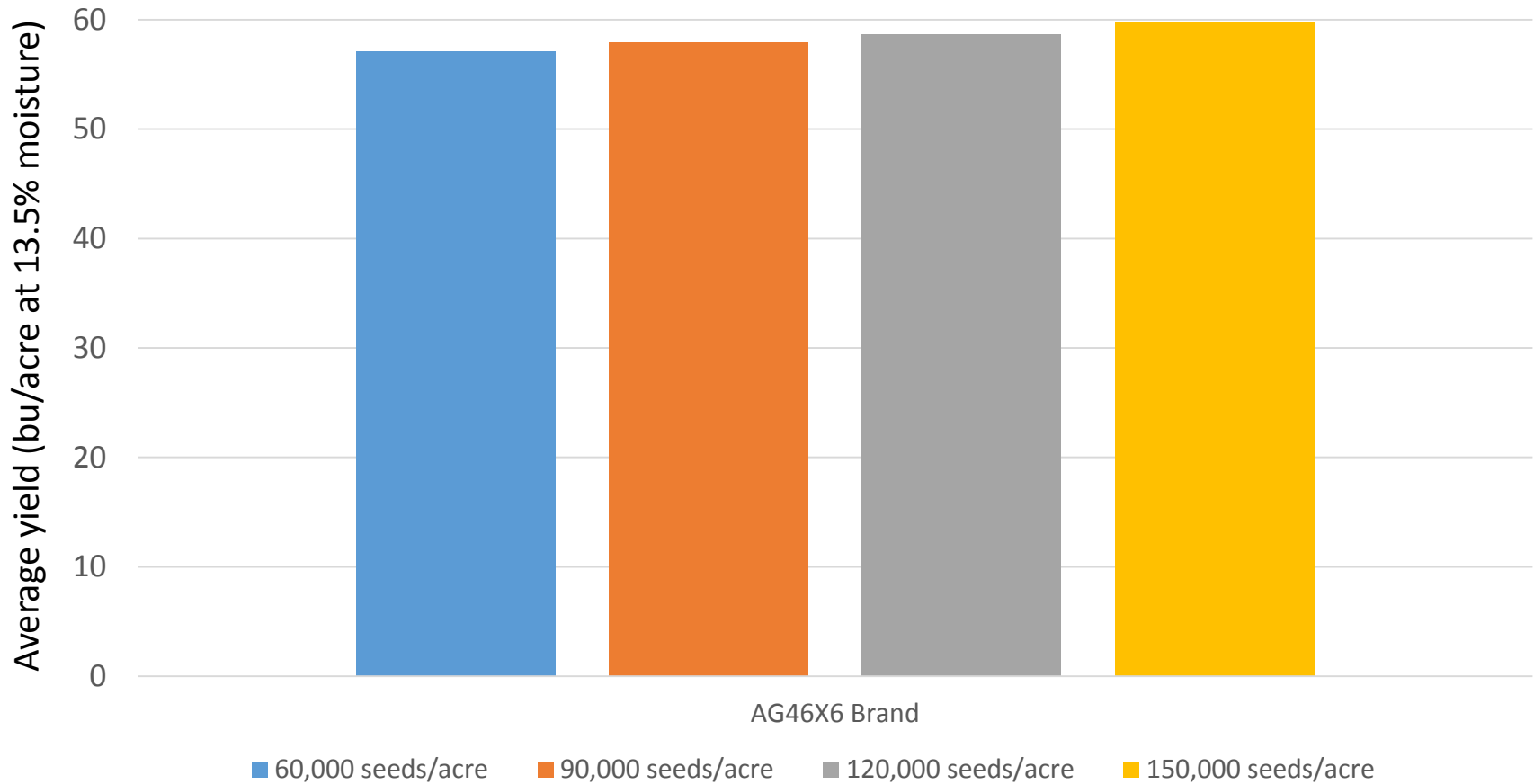


Figure 2. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.





# RESULTS & DISCUSSION

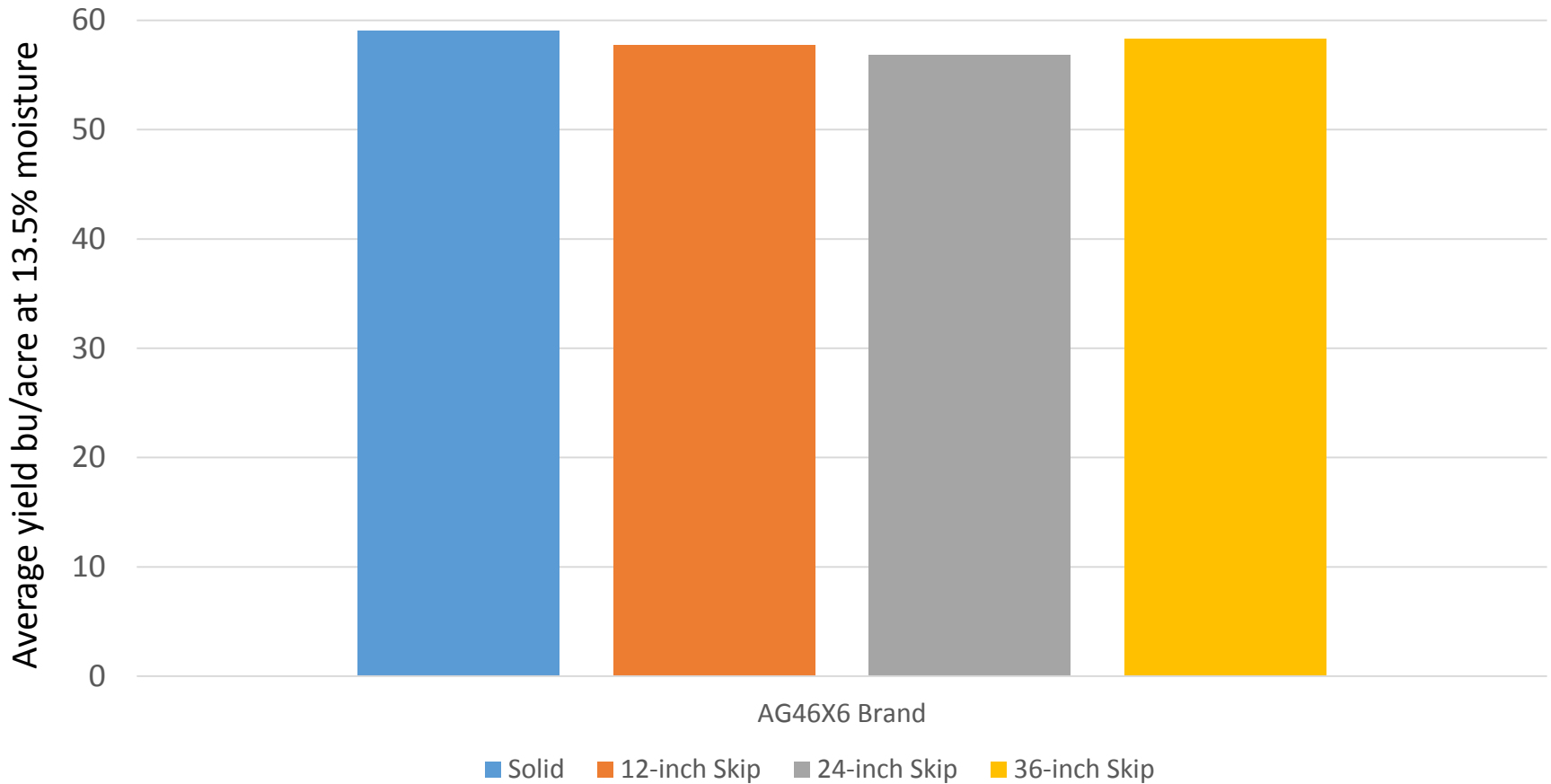


Figure 3. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.



# RESULTS & DISCUSSION

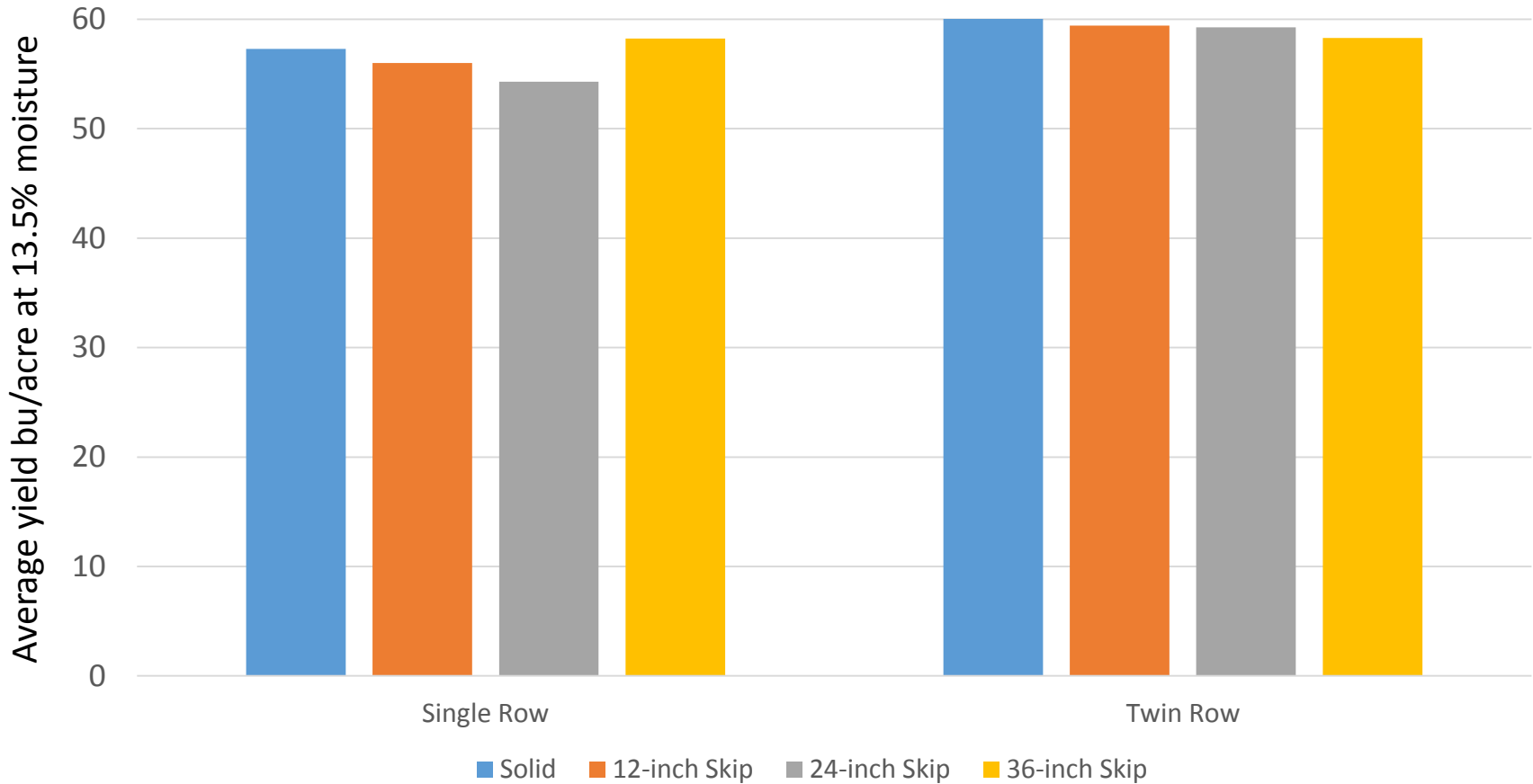


Figure 4. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.



# RESULTS & DISCUSSION

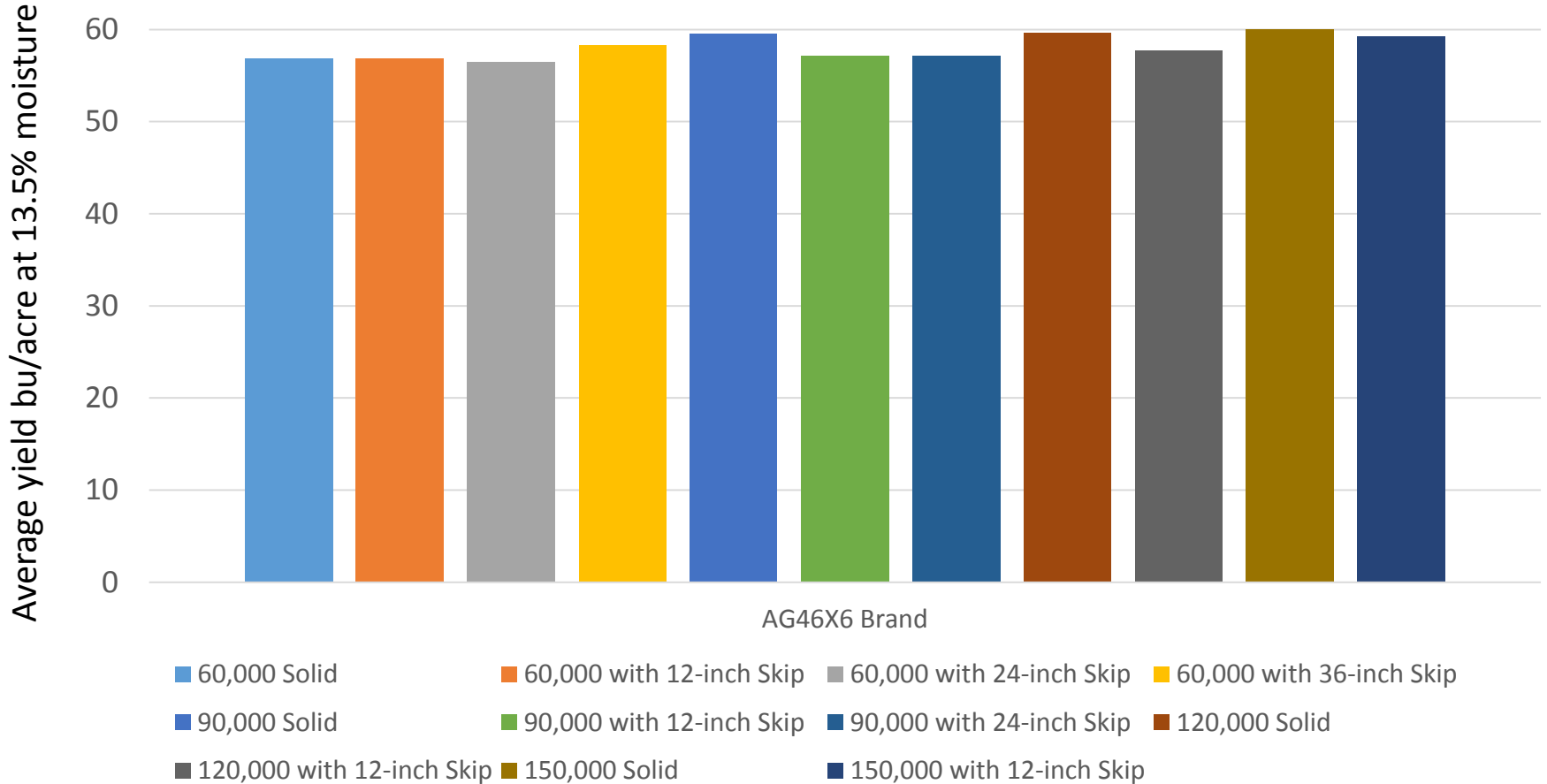


Figure 5. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.



# RESULTS & DISCUSSION

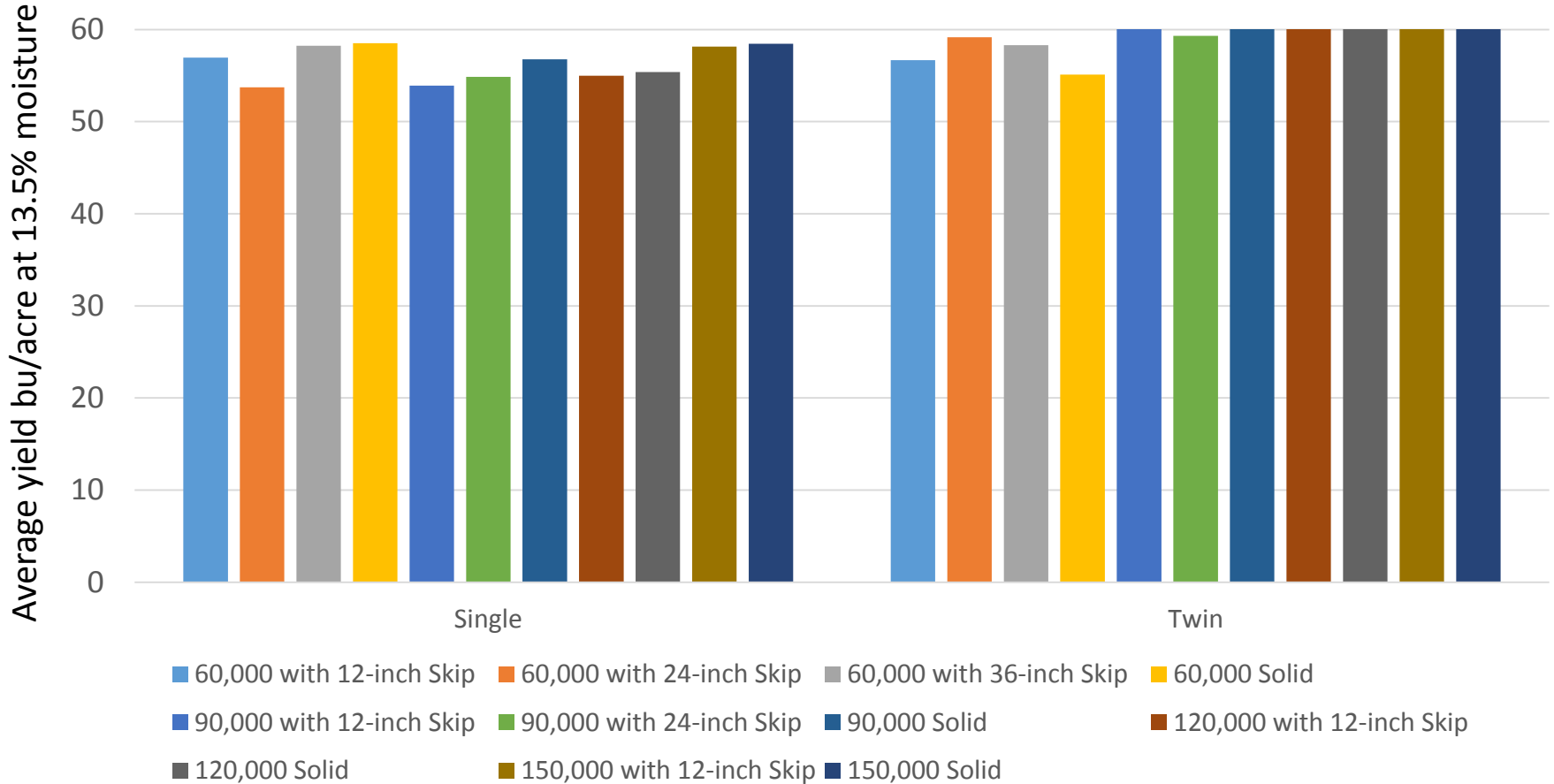


Figure 6. Response of Asgrow® brand AG46X6 to skippy stands at Scott, MS.

# Results and Conclusions



Figure 2. Examples of random skips in two plant populations in 38-inch twin rows.

Response of Three Asgrow® Brand Soybean products to Stand Variability and Population

# Results and Conclusions



Figure 1. Using predetermined data from a 'skipulator', planters were programmed to randomly insert skips into each planting population.

Response of Three Asgrow® Brand Soybean Products to Stand Variability and Population





# TAKE AWAYS

- These results DO NOT recommending planting at low populations.
- If populations are reduced and somewhat uniformly distributed, soybeans have the ability to compensate and maintain acceptable yield potential.
- This agrees with previous data showing tremendous compensation ability in soybean crops.
- Evaluate each field and situation individually.
- In many cases replanting is not necessary. Less-than-perfect soybean stands can be kept with reasonable expectation of maintaining yield potential.
- Contact your local Asgrow<sup>®</sup> representative for more information.



# 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.*

**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 PESTICIDE LABEL**

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## THANK YOU

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