



Evaluation of Asgrow® Brand Soybean Products on Southern Soils – 2023

Trial Objective

- Each year trials are conducted at the Scott Learning Center in Scott, Mississippi, to evaluate adaptation of soybean products on two very different soil types: the Buckshot site has a heavy clay soil, and the Highway site has a deep, sandy soil.
- This trial was conducted to measure the yield performance of 14 Asgrow® brand soybean products with various relative maturities grown on two different alluvial delta soil types.

Research Site Details

- » All field work, tillage, and herbicides were applied per local standards.

Table 1. Soybean products planted.

Asgrow® Brand	Trait	Relative Maturity
AG38XF3 (not planted in the sand)	XtendFlex® Technology	3.8
AG39XF3	XtendFlex® Technology	3.9
AG42XF4	XtendFlex® Technology	4.2
AG43XF2	XtendFlex® Technology	4.3
AG45XF0	XtendFlex® Technology	4.5
AG45XF3	XtendFlex® Technology	4.5
AG46X6	Roundup Ready 2 Xtend® Technology	4.6
AG46XF3	XtendFlex® Technology	4.6
AG47XF2	XtendFlex® Technology	4.7
AG47XF4	XtendFlex® Technology	4.7
AG48X9	Roundup Ready 2 Xtend® Technology	4.8
AG48XF2	XtendFlex® Technology	4.8
AG48XF3	XtendFlex® Technology	4.8
AG49XF4	XtendFlex® Technology	4.9

XtendFlex® Soybean offers tolerance to dicamba, glyphosate, and glufosinate herbicides.
Roundup Ready 2 Xtend® soybean offers tolerance to dicamba and glyphosate herbicides.

- Statistical design and data collection:
 - » Non-replicated strip plot: 8 rows per plot
 - » 38-inch rows on beds with two drills on top, 7.5 inches apart.
 - » Plot Size: 0.25 to 0.30 acre/plot with rows between 400 and 500 feet long depending on the experiment.
 - » Commercial machinery was used to harvest the plots
 - » All yield values were corrected to a 13.5% moisture content equivalent for data presentation

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Location	Soil Type	Previous Crop	Tillage Type	Planting Date	Harvest Date	Potential Yield (bu/acre)	Seeding Rate (seeds/acre)
Scott, MS (Highway)	Commerce Silt Loam	Cotton	Conventional	4/15/2023	As mature	90	125,000
Scott, MS (Buckshot)	Dowling Clay	Cotton	Conventional	4/15/2023	As mature	100	125,000

Understanding the Results

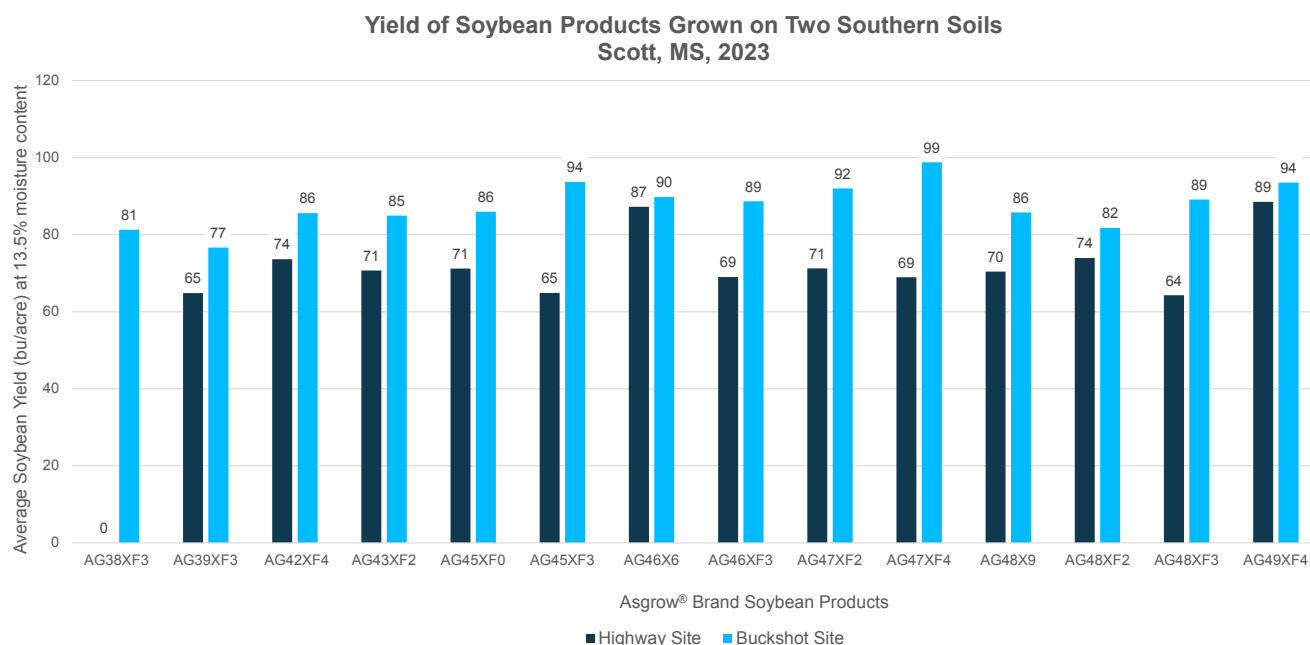


Figure 1. Yields of 14 Asgrow® brand soybean products grown on two southern soils.

- Yield Performance
 - » Highway Site
 - Yield values ranged from 64.3 to 88.9 bu/acre
 - Average yield across all products (varieties) – 72.2 bu/acre
 - » Buckshot Site
 - Yield values ranged from 76.6 to 98.8 bu/acre
 - Average yield across all products (varieties) – 87.7 bu/acre



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Key Learnings

- Soybean yield potential varied across the two tested soil types, with a higher average yield potential from plants grown on the heavy clay soil of the Buckshot as compared to the potential from the plants grown on the lighter sandy soils of the Highway site. These data are consistent with results observed in previous years.
- Asgrow® brand appears to have a selection of well adapted soybean products for both tested production environments. Some soybean products appear to be better adapted to one environment compared to the other.
- Please contact your local Asgrow® brand representative for more details on soybean products for your area.

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.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with products with XtendFlex® Technology.

For more information regarding the intellectual property protection for the seed products identified in this publication, please see www.asgrowanddekalb.com. Performance may vary, from location to location and from year to year, as local growing, soil and environmental conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on their growing environment.

The recommendations in this material are based upon trial observations and feedback received from a limited number of growers and growing environments. These recommendations should be considered as one reference point and should not be substituted for the professional opinion of agronomists, entomologists or other relevant experts evaluating specific conditions.

Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

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