# **MU Certified Strip Trial Program** 2018 Termination Date Trial (Site 1) **Harvest Report**

### Site Number: 1 (Cooper County) **Extension Contact: Kent Shannon**

#### **Trial Harvest Summary**

This is a cover crop trial comparing the effect of yield on cover crop strips that are terminated on two different dates. The first termination date was April 25<sup>th</sup>, the second termination date was May 8<sup>th</sup>, and soybean was planted on May 8<sup>th</sup>. The second termination date was 13 days after the first termination date. There was a mean yield difference of -3.0 bushels per acre between the two termination dates, this difference was statistically significant. See Table/Graph 1 for a summary of yield results.

Please note the section towards the end of the report that summarizes management information currently known about the trial. Missing information is highlighted in yellow. Please provide your extension contact the missing information as soon as possible and let us know if any other corrections or changes need to be made.

At the end of the report are two tables summarizing results from all of the cover crop termination date trials for the last three years. Please note that all of the analysis is preliminary.

The MU Strip Trial program will have meetings throughout Missouri in February of 2019. More information on location and dates will be sent out soon. We encourage you to attend the strip trial meeting that is closest to you. This will be an opportunity for discussion on what was learned across farms and multiple years of trials. It will also be an opportunity for you to give feedback on how the trial worked on your farm and provide ideas for future trials.

Please follow us on Twitter at @MUStripTrials!

Thank you for agreeing to do this trial! It is one of five termination date trials in 2018.

The mission of the MU Certified Strip Trial Program is to help farmers validate management decisions on their farm and document efficiency and environmental stewardship.

#### The MU Certified Strip Trial Program is funded by:

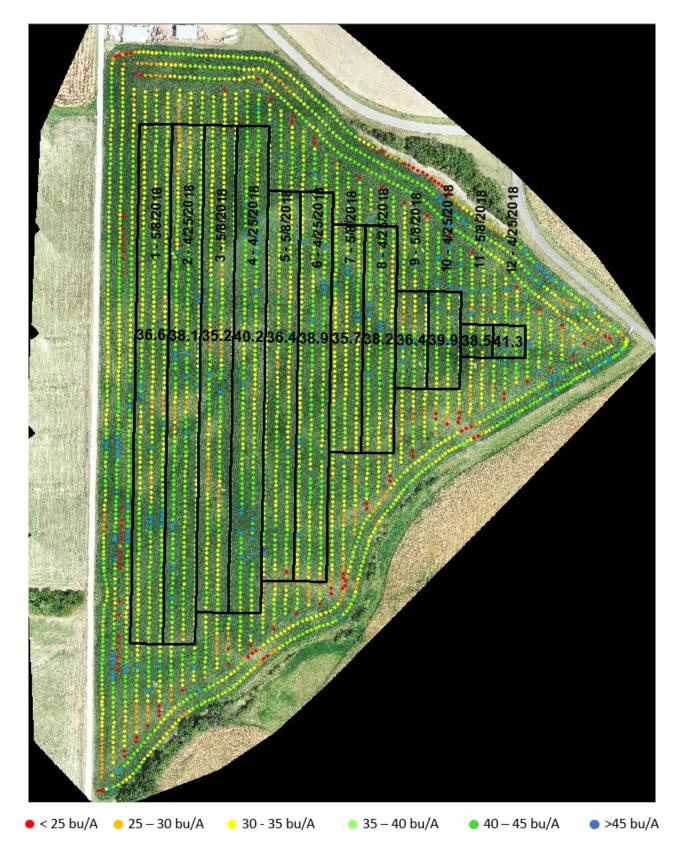
MU Extension, the Missouri Soybean Merchandising Council and the Missouri Corn Merchandising Council.



Page **1** of **6** 





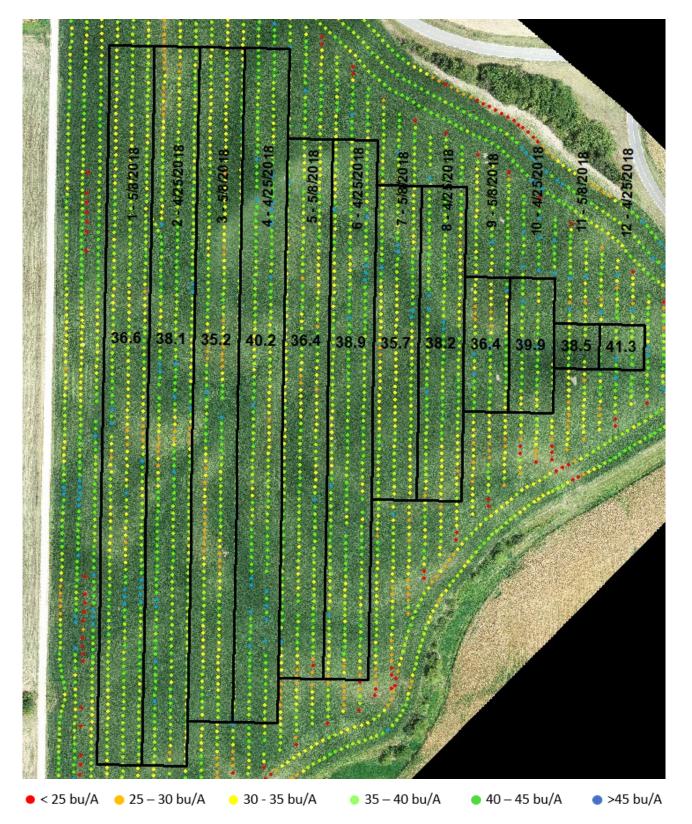


**Figure 1a**. Whole field showing soybean dry yield data reported as bushels per acre (bu/A). Strips are labeled with their mean yield and the date of termination. The field was harvested October 25, 2018.









**Figure 1b**. Close-up of strips showing soybean dry yield data reported as bushels per acre (bu/A). Strips are labeled with their mean yield and the date of termination.







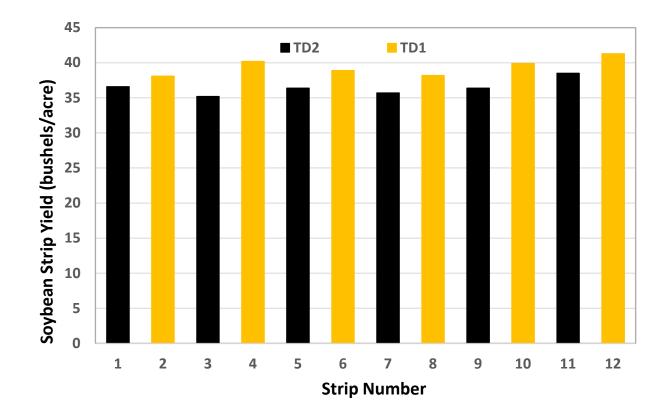
 Table 1/Graph 1.
 Strip means of soybean yield.

#### Mean soybean yields:

Mean of all Strips:	38.0 bushels/acre
Termination Date 1 (TD1) 4/25/18 Strips:	39.1 bushels/acre
Termination Date 2 (TD2) 5/8/18 Strips:	36.1 bushels/acre
Treatment difference:	3.0 bushels/acre

Preliminary analysis shows that this difference was statistically significant.

Strip	1	2	3	4	5	6	7	8	9	10	11	12
Treatment	TD2	TD1										
Yield (Bushels/Acre)	36.6	38.1	35.2	40.2	36.4	38.9	35.7	38.2	36.4	39.9	38.5	41.3









## **Cover Crop Management Information**

	Termination Date 1	Termination Date 2
Cover crop	Cereal Rye	Cereal Rye
Planting date	10/25/2017	10/25/2017
Seeding rate	30 lbs/acre	30 lbs/acre
Termination date (TD)	4/25/2018	5/8/2018
Height/stage at termination	10 inches, vegetative	24 inches
Herbicides applied	Glyphosate, 1 quart per acre	Glyphosate, 1 quart per acre
Herbicide extent	TD 1 Strips only	

## **Grain Crop Management Information**

Planting Date	Variety	Seeding Rate	Harvest Date		
5/8/2018	Channel 4417R2X/SR	160,000	10/25/2018		
Crop Rotation	Corn and Soybean				
Tillage System	No till				

## **Other Input Information**

Date	Type of Input	Product Name	Rate Applied
Over winter	Fertilizer	N-Phosphate-Potash-Zn	8.5-40-70-2 pounds/acre
5/10/2018	Herbicide	Generic Dual Generic Dicamba Linex (Generic Lorox)	<ol> <li>1.5 quarts/acre</li> <li>12.5 ounces/acre</li> <li>12.5 ounces/acre</li> </ol>
5/29/2018	Herbicide	AMS Glyphosate Flexstar, generic MSO	1 pounds/Acre 1.5 pints/Acre 1.25 pints/Acre 15 ounces/Acre
5/29/2018	Drift Retardant	Array	0.9 pounds/Acre







## **Equipment Specifics**

Equipment	Туре	Width (in feet)
Planter	Kinze 3600	38.75
Sprayer	JD 4730	100
Combine	JD \$680	35
Yield Monitor	Ag Leader	



Page 6 of 6 MISSOURI SCYBEANS

rie charlenge 🎻

