MU Certified Strip Trial Program 2018 Termination Date Trial (Site 2) Harvest Report

Site Number: 2 (Franklin County) Extension Contact: Charles Ellis

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 24th, the second termination date was May 6th, and soybean was planted on May 13th. The second termination date was 12 days after the first termination date. There was a mean yield difference of 0.9 bushels per acre between the two termination dates, but the difference at this location was not 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.







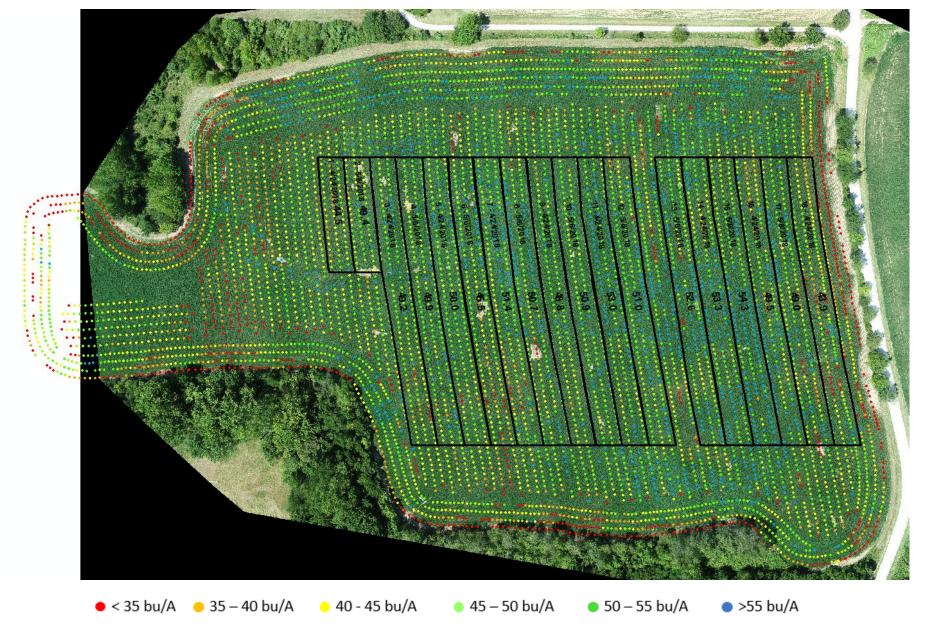


Figure 1a. Whole field showing soybean dry yield data reported as bushels per acre (bu/A). Strips are labeled with their mean yield and the date of termination. The field was harvested October 18, 2018.







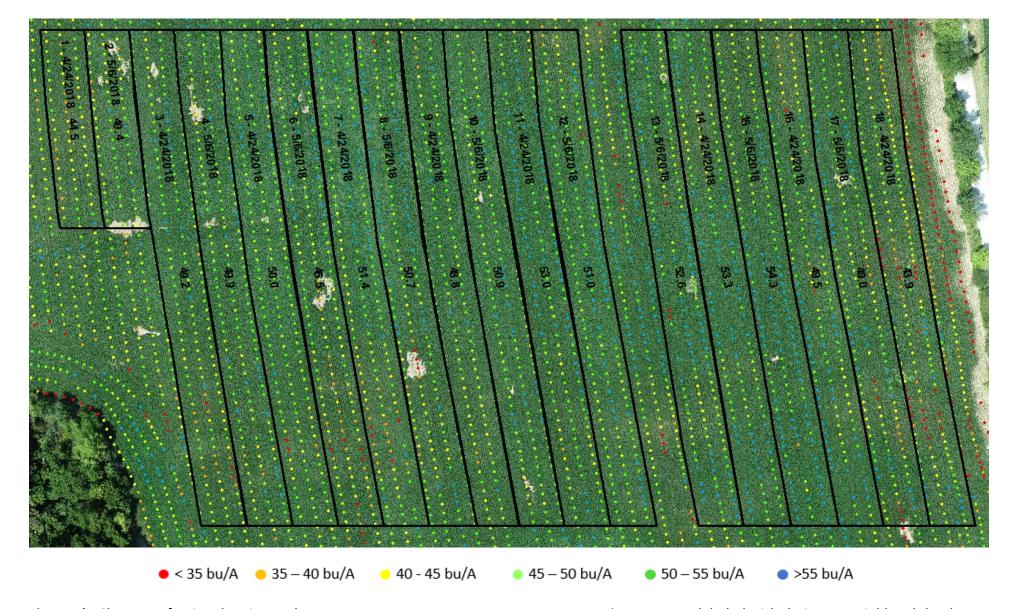


Figure 1b. Close-up of strips showing soybean dry yield data reported as bushels per acre (bu/A). Strips are labeled with their mean yield and the date of termination.







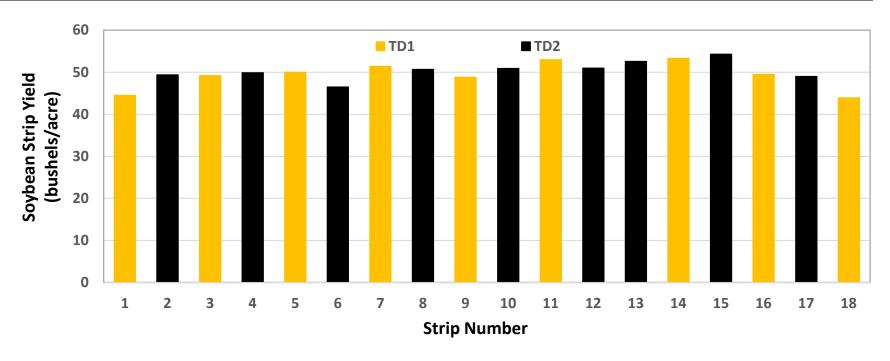
Table 1/Graph 1. Strip means of soybean yield.

Mean soybean yields:

Mean of all Strips: 49.8 bushels/acre
Termination Date 1 (TD1) 4/24/18 Strips: 49.3 bushels/acre
Termination Date 2 (TD2) 5/6/18 Strips: 50.7 bushels/acre
Treatment difference: -1.3 bushels/acre

Preliminary analysis shows that this difference was not statistically significant.

Strip	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Treatment	TD1	TD2	TD2	TD1	TD2	TD1	TD2	TD1										
Yield (Bushels/Acre)	44.5	49.4	49.2	49.9	50.0	46.5	51.4	50.7	48.8	50.9	53.0	51.0	52.6	53.3	54.3	49.5	49.0	43.9









Cover Crop Management Information

	Termi	nation Date 1	Termination Date 2			
Cover crop	С	ereal Rye	Cereal Rye			
Planting date	10)/10/2017	10/10/2017			
Seeding rate	15 pounds/	acre with no till drill	15 pounds/acre with no till drill			
Termination date (TD)	D) 4/24/2018		5,	5/6/2018		
Height/stage at termination	8 inch	es, vegetative	24-30 inches, reproductive			
Herbicides applied	Glyphosate 2, 4-D	1 quarts/acre 1 pint/acre	Glyphosate 2, 4-D	1 quarts/acre 1 pint/acre		
Herbicide extent	TD 1 Strips only TD 2 Strips only		Strips only			

Grain Crop Management Information

Planting Date	Variety	Seeding Rate	Harvest Date			
5/13/2018	Ag-Venture 41B5LL	155,000	10/18/2018			
Crop Rotation	Corn and Soybean					
Tillage System		No Till				

Other Input Information

Date	Type of Input	Product Name	Rate Applied		
	Herbicide	Liberty	1 quart/Acre		

Equipment Specifics

Equipment	Туре	Width (in feet)		
Planter	White 6100	13.75		
Sprayer		45		
Combine	Gleaner R-42	15		
Yield Monitor	AgLeader 1200			





