

R3 Soybean Fungicide Strip Trial

“MU Certified” Strip Trial Program

Objective:

Are fungicides applied at R3 to soybean effective at increasing yield and reducing foliar disease?

Approach:

Compare your choice of fungicide treatment at R3 versus no R3 fungicide treatment.

Key design elements:

- We need room for at least 10 strips (five replicates).
- All other management choices up to the farmer (e.g. soybean variety, seeding rate, fertilization, other fungicide applications, herbicides, insecticides, harvest date).
- We will need an as-applied spray map showing where R3 fungicide was applied and a yield map.

Information needed to layout trial:

Farmer Name:	Phone:	Email:
MU Extension Contact:	Phone:	Email:
Applicator/Ag Specialist Name:	Phone:	Email:

Field Information	
Field location/size:	Harvest direction:
Does field have history of foliar disease?	Planting date:
If yes, please list years and disease types:	2019 crop in field:

Equipment		
Sprayer type/model:	Sprayer width (ft):	GPS enabled? yes or no
Spray controller type/model:		GPS enabled? yes or no
Combine type/model:	Combine width (ft):	GPS enabled? yes or no
Yield monitor type/model:		GPS enabled? yes or no

Soybean field being sprayed with fungicide on August 29th.



Interested?

Contact your local Extension Office,
 Kaitlyn Bissonnette (bissonnettek@missouri.edu; 573-882-9106), or
 David Kleinsorge (kleinsorged@missouri.edu; 573-884-8696).

More Information

Key measurements:

- Field will be scouted twice at 40 GPS located points in the field: first at R1-R2 prior to a fungicide application and second approximately 2 weeks following the fungicide application around R4-R5.
- Aerial imagery, including high resolution images, will be taken prior to or at the first scouting time (R1) and approximately 2 weeks following the fungicide application around R4-R5 to document disease differences in the field.

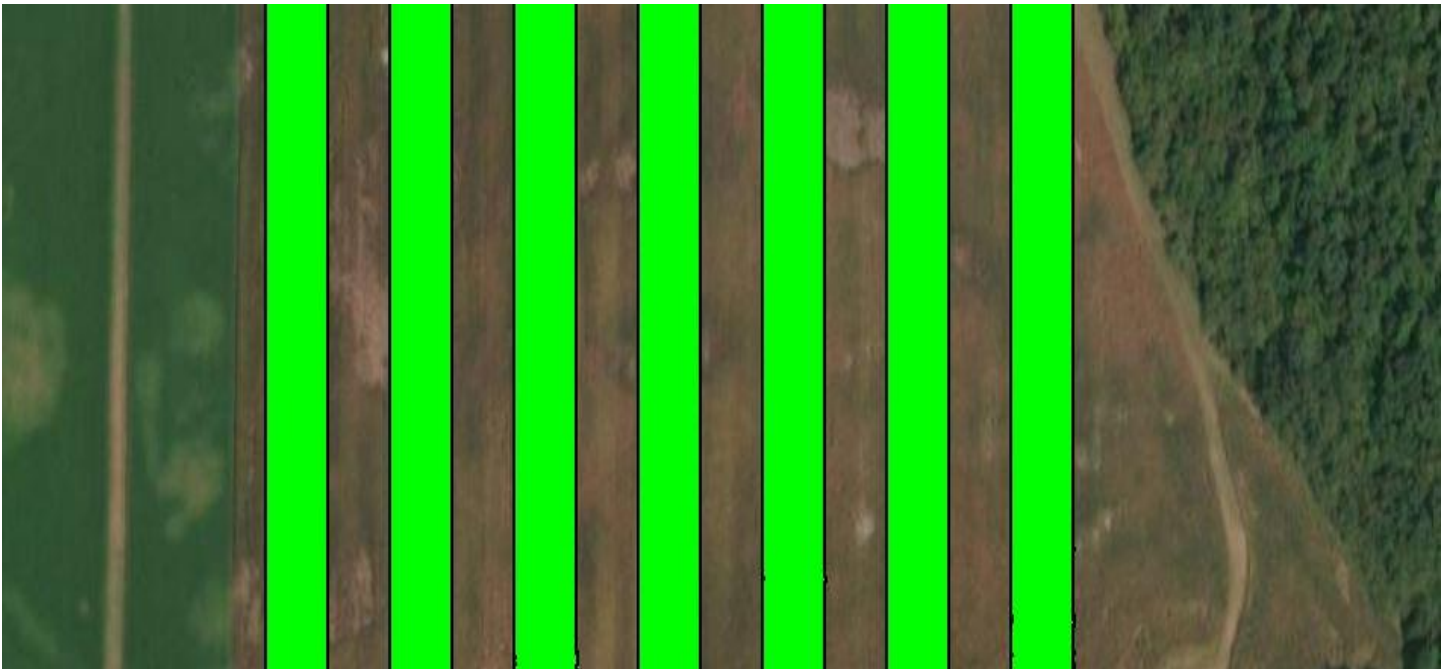
Key additional information needed from farmer:

- Farmer will need to provide an as-applied spray map showing location of the treatment strips.
- Farmer will need to provide a GPS referenced harvest map.
- Farmer will need to provide cropping information including crop rotation, tillage method, soybean variety, planting date, seeding rate, harvest date, etc.

Key trial implementation notes:

- We will work with you to create a treatment map for your field. Typically will alternate treatments across the field.
- Apply treatments parallel to how you harvest the field, not parallel to how you plant the field.
- We will try to create a trial where you do not change how you harvest the field.
- Work with your local extension specialist and state program staff if you have questions.

Example of field layout with the treatment strips: green = strips of the field that were sprayed with fungicide at R3. In this case the rest of the field is not sprayed with fungicide.



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