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:

<table>
<thead>
<tr>
<th>Farmer Name:</th>
<th>Phone:</th>
<th>Email:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU Extension Contact:</td>
<td>Phone:</td>
<td>Email:</td>
</tr>
<tr>
<td>Applicator/Ag Specialist Name:</td>
<td>Phone:</td>
<td>Email:</td>
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</tbody>
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Field Information
- Field location/size:
- Does field have history of foliar disease?
- If yes, please list years and disease types:
- Harvest direction:
- Planting date:
- 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.