



## **Soybean R3 Fungicide Trial**

### **2019 Site 13**

### **Mississippi County**

Planting date: 5/28/2019  
Seeding rate: 140,000 seeds/acre  
Variety: Asgrow AG43X7  
Previous crop: Soybean

R3 fungicide spray date: 8/13/2019  
Product: Trivapro (13.7 oz./acre)

Scouted: 7/17 and 8/29/2019

Harvested: 10/3/2019

Replicates: 5

Original trial layout and as-applied map for an R3 fungicide application on August 13, 2019. Treated areas received the fungicide Trivapro (13.7 oz/acre). Aerial image was taken at 330 feet on July 17, 2019.



# Soybean R3 Fungicide Trial

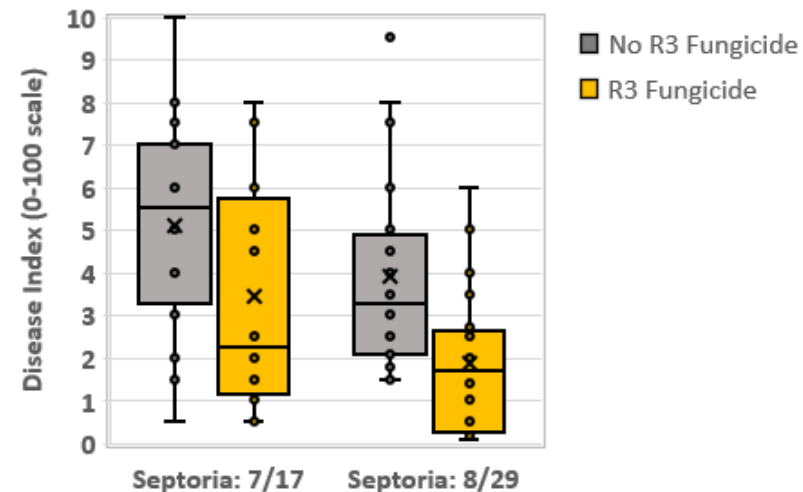
## 2019 Site 13

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Summary of scouting data. Fungicide applied August 13, 2019. Only Septoria was identified at this location. There is no evidence that fungicide affected scouting results. Note that scouting on 8/29 noted extensive insect damage.

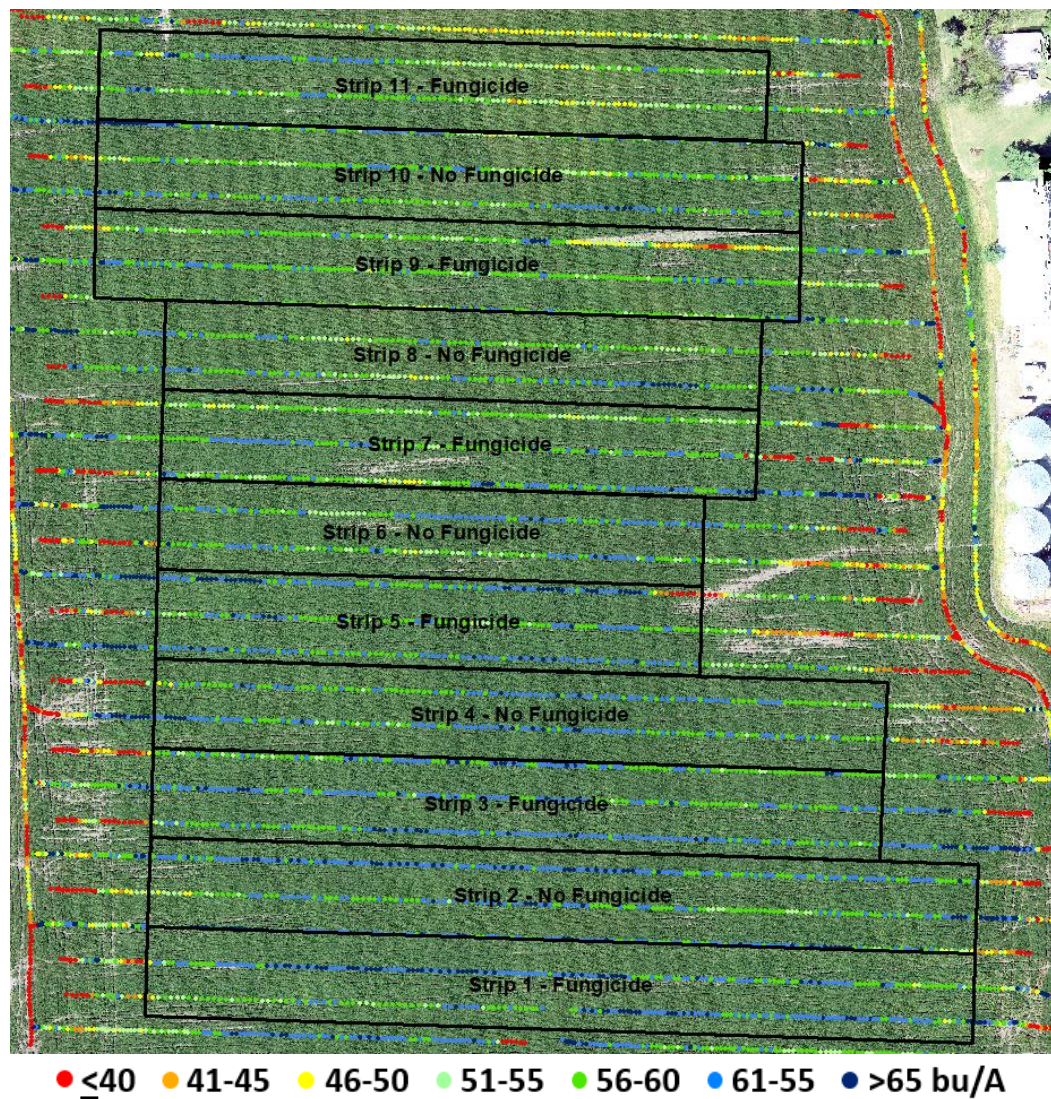
Disease	R3 Fungicide	Number of points	Disease Index <sup>1</sup> (0-100)		
			Pre-Spray 7/17/2019	Post-Spray 8/29/2019	Delta
Septoria	N	20	5.1	3.9	-1.2
	Y	20	3.5	1.9	-1.6
Treatment Difference					-0.4

<sup>1</sup>Disease index is calculated by multiplying the percent plants with disease (incidence) times the severity of the disease and adjusting the project to a scale of 0 to 100.



Final trial layout and scouting points. Final strip layout reflects areas of the field not affected by stand issues not related to R3 Fungicide application. Points were scouted on July 17 and August 29. Aerial image was taken at 330 feet on July 26, 2019.



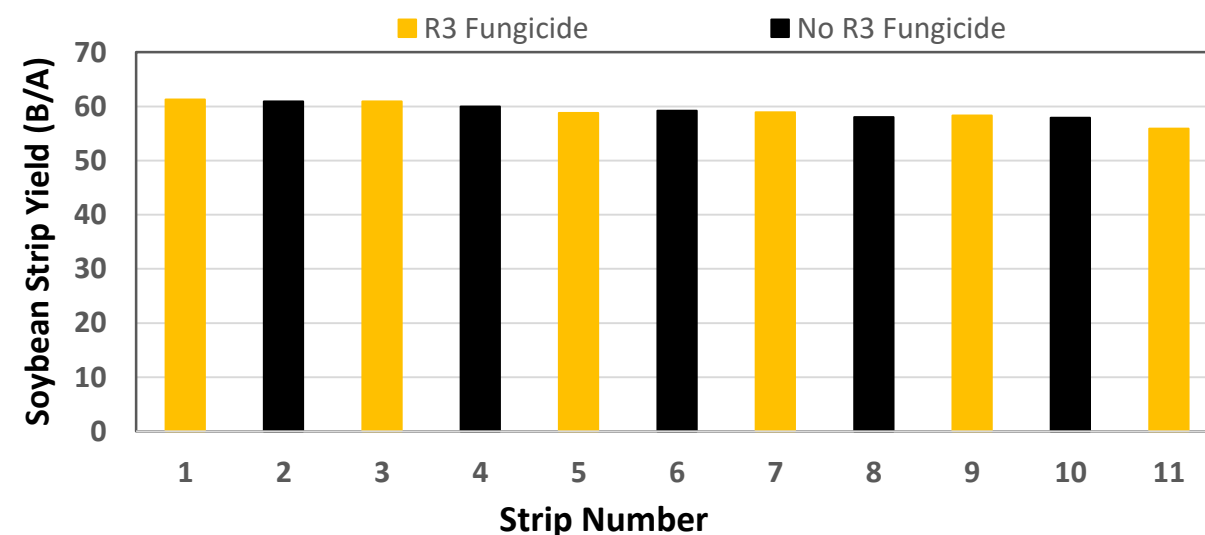


Soybean yield map harvested Oct. 3, 2019. Final strip layout reflects areas of the field not affected by stand issues not related to R3 Fungicide application. Aerial image was taken at 330 feet on August 29, 2019.

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Treatments	Mean	Delta Control
	<i>bushels/acre</i>	
All strips	59.1	--
Control (N)	59.0	--
R3 Fungicide (F)	59.2	0.2

Strip	1	2	3	4	5	6	7	8	9	10	11
Fung.	Y	N	Y	N	Y	N	Y	N	Y	N	Y
Yield	61.3	60.9	60.9	60.0	58.8	59.2	58.9	58.0	58.3	57.9	55.9





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July 17, 2019 (Pre-treatment)

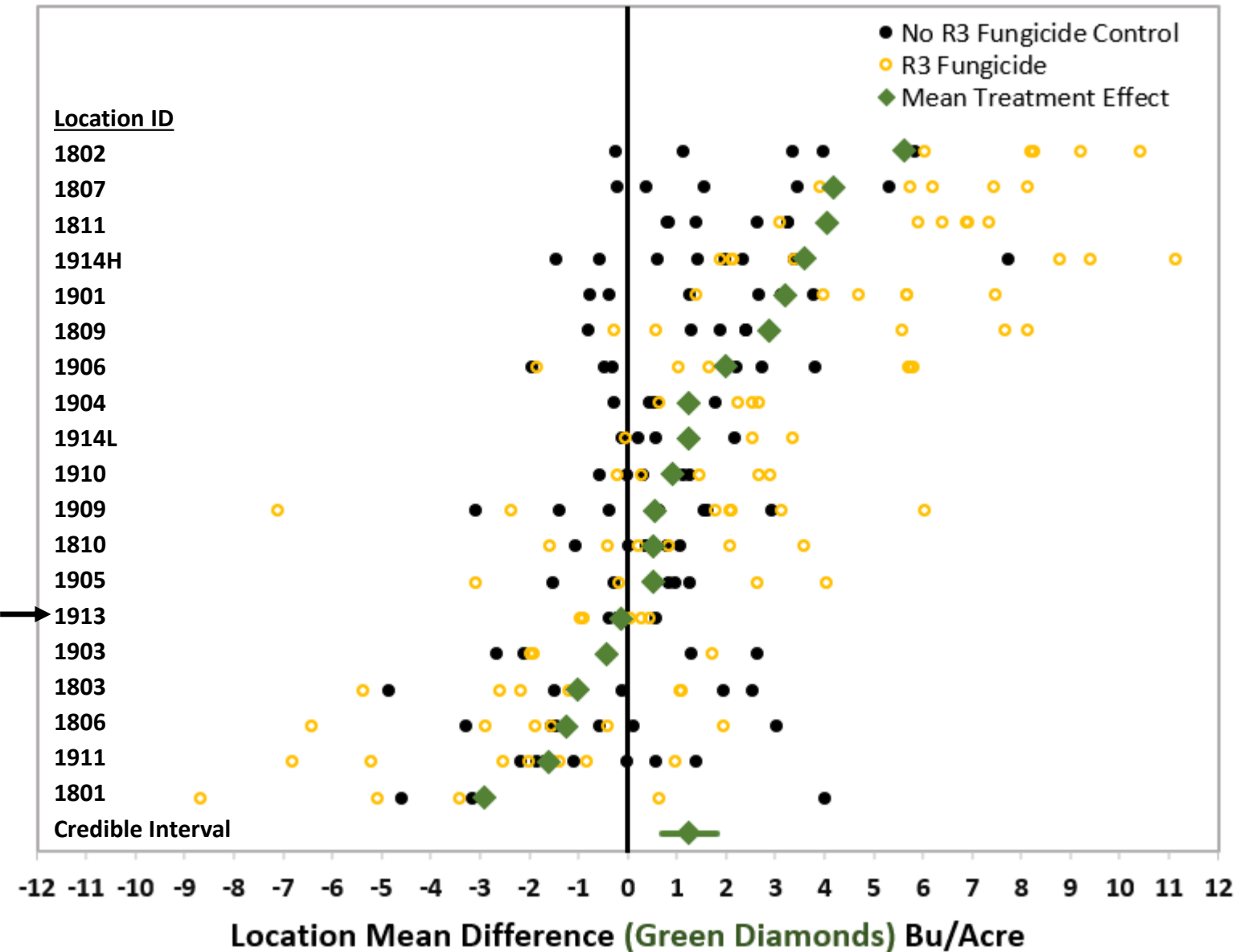


August 29, 2019 (Post Treatment)



High resolution aerial imagery from treated and untreated strips. The top images were taken July 17, 27 days prior to the August 13 R3 fungicide application; the lower images were taken on August 29, 16 days after the R3 fungicide application. Images on the left are from point 31 (untreated) and images on the right are from point 34 (treated) in Fig. 2. Scouting indicated low levels of Septoria at this location.

# R3 Fungicide for Soybean: Effect on yield



## Key Points:

- Across these 18 farms, R3 fungicide increased yield.
- The benefit was less than 2 bushels per acre.
- There was more than a 50% chance of a one bushel/acre response.
- Results by location suggested significant benefit a five of 18 locations.