

North



## Soybean R3 Fungicide Trial 2019 Site 3 Greene County

Planting date: 6/18/2019

Seeding rate: 140,000 seeds/acre

Variety: Pioneer P52A43L

Previous crop: Corn

R3 fungicide spray date: 8/29/2019

Product: Headline Amp (10 oz./acre)

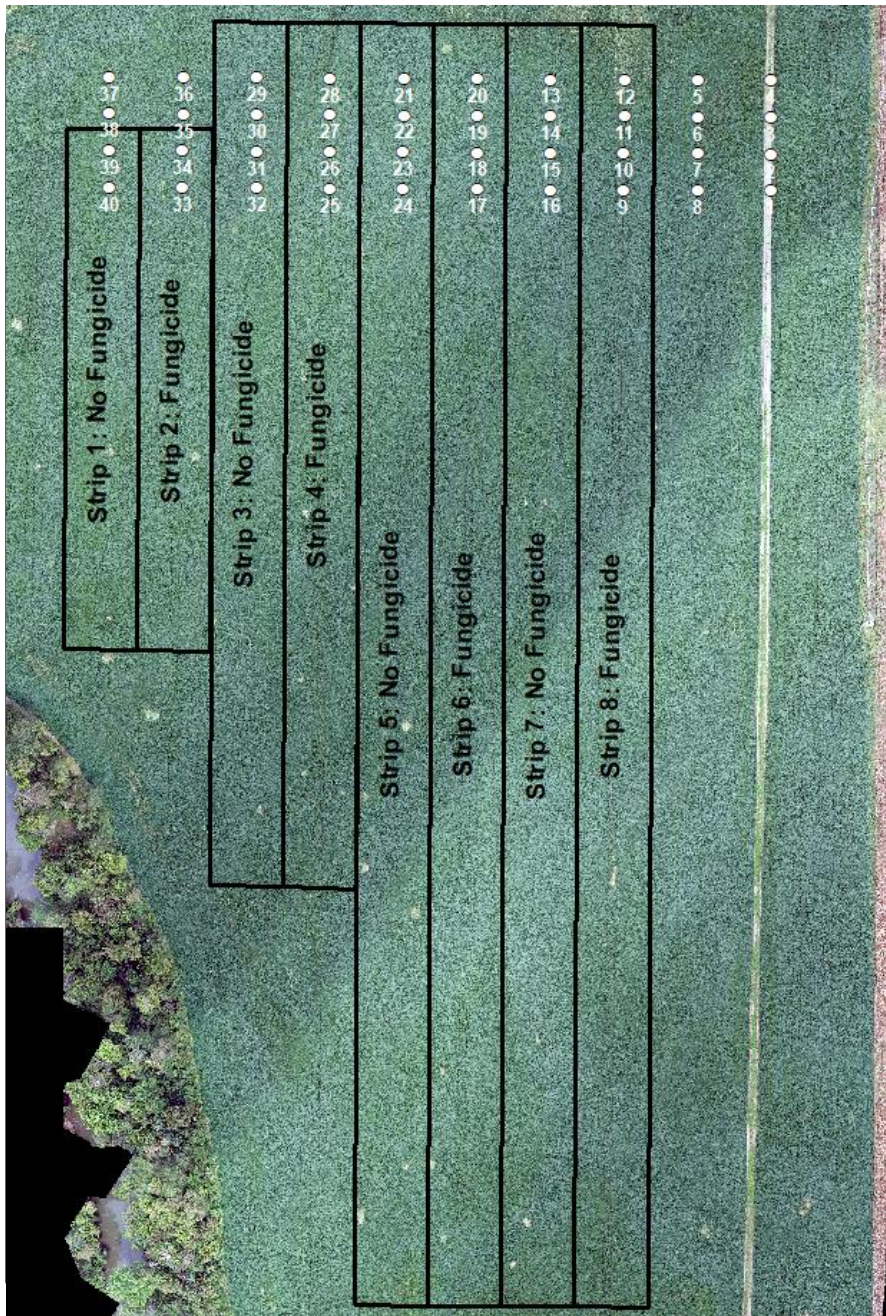
Scouted: 7/16 and 9/20/2019

Harvested: 11/5/2019

Replicates: 5

Original trial layout and as-applied map for an R3 fungicide application on August 1, 2019. Treated areas received the fungicide Headline Amp (grey lines; 10 oz/acre).

Aerial image was taken at 330 feet on September 6, 2019. Note that some color differences are due to changing cloud cover during the drone flight.



# Soybean R3 Fungicide Trial 2019 Site 3 Greene County

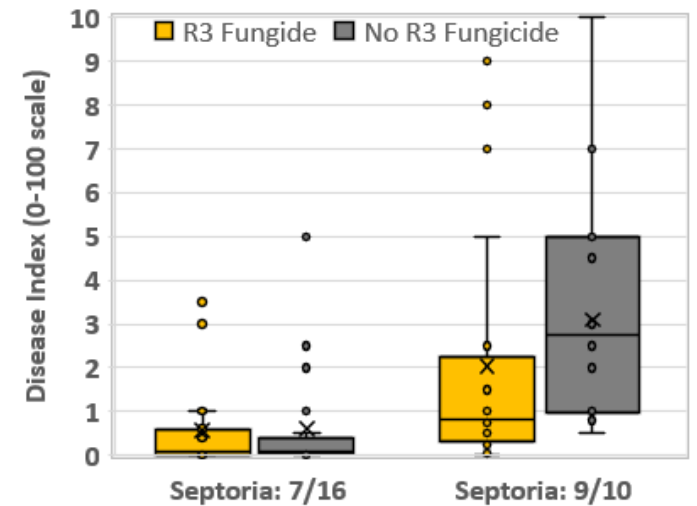
Summary of scouting data. Fungicide applied August 29, 2019. Septoria was the primary disease identified at this location. There is little evidence that fungicide affected scouting results.

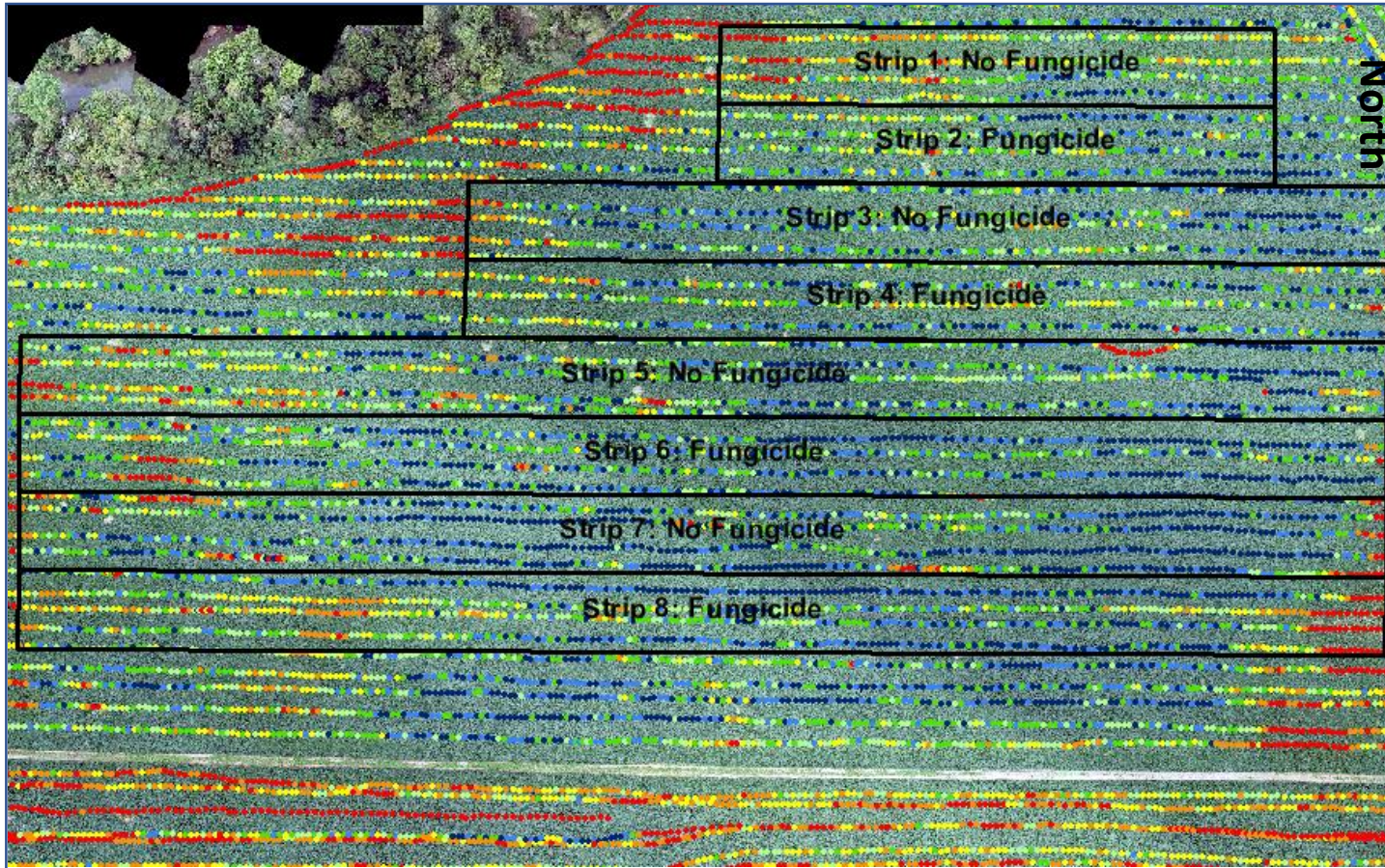
			Disease Index <sup>1</sup> (0-100)		
Disease	R3 Fungicide	Number of points	Pre-Spray 7/16/2019	Post-Spray 9/10/2019	Delta
Septoria	N	20	0.6	3.1	2.5
	Y	20	0.6	2.0	1.5
Treatment Difference					-1.0

<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 30 and August 20.

Aerial image was taken at 330 feet on August 20, 2019. Note at this location, road on east side of plots eliminated two strips.





● ≤40 ● 41-45 ● 46-50 ● 51-55 ● 56-60 ● 61-65 ● >65 bu/A

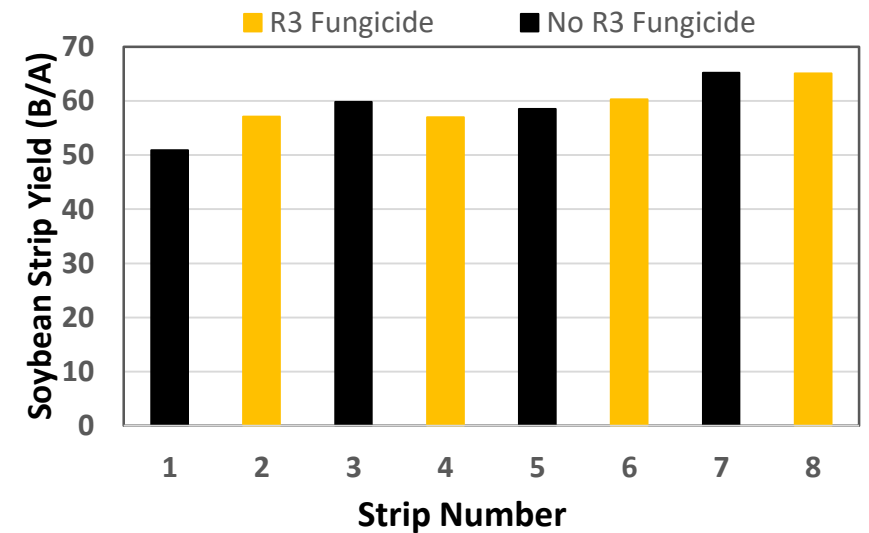
Soybean yield map harvested Nov. 5, 2019. Final strip layout reflects areas of the field not affected by stand issues not related to R3 Fungicide application. Aerial image was taken at 330 feet on Sept 10, 2019.

Note that two strips were eliminated because of the road within the fungicide strip on the west side of field.

## Soybean R3 Fungicide Trial 2019 Site 3 Greene County

Treatments	Mean	Delta Control
	<i>bushels/acre</i>	
All strips	59.3	--
Control (N)	59.2	--
R3 Fungicide (F)	59.9	0.7

Strip	1	2	3	4	5	6	7	8
Fung.	N	Y	N	Y	N	Y	N	Y
Yield	50.9	57.1	59.8	57	58.5	60.3	65.2	65.1



**Soybean R3 Fungicide Trial  
2019 Site 3  
Greene County**

**July 16, 2019 (pre-treatment)**



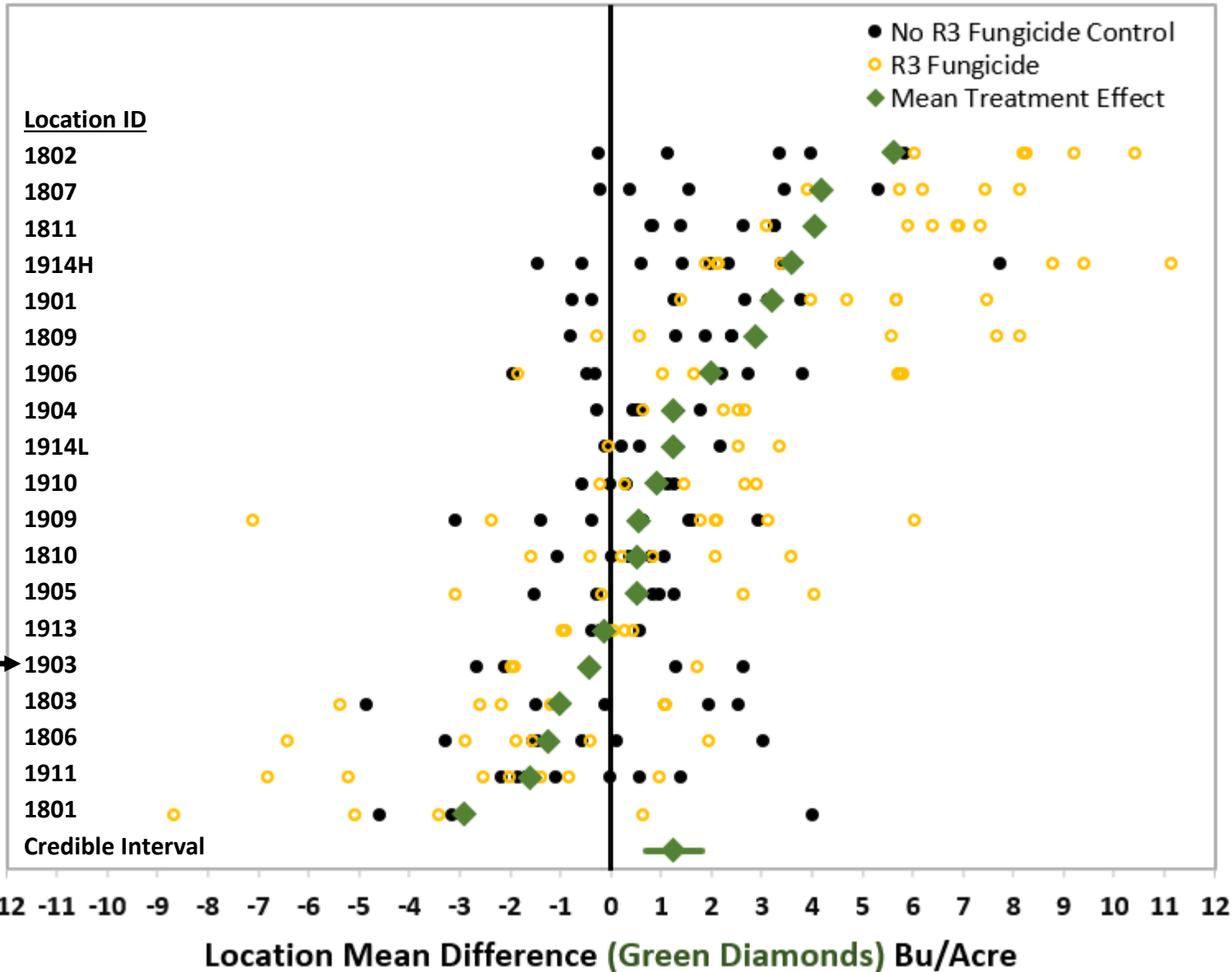
**Control (No R3 Fungicide)**

**September 10, 2019 (post-treatment)**

**Treated (R3 Fungicide)**



# 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.