

Original trial layout and as-applied map for an R3 fungicide application on August 10, 2019. Aerial image was taken at 375 feet on July 26, 2019.

Soybean R3 Fungicide Trial 2019 Site 6 Lincoln County

Planting date: 6/10/2019

Seeding rate: 160,000 seeds/acre

Variety: Becks 394L4

Previous crop: Corn

R3 fungicide spray date: 8/10/2019

Product: Delaro 325 SC (8 oz./acre)

Scouted: 7/26 and 8/23/2019

Harvested: 10/17/2019

Replicates: 6

Soybean R3 Fungicide Trial

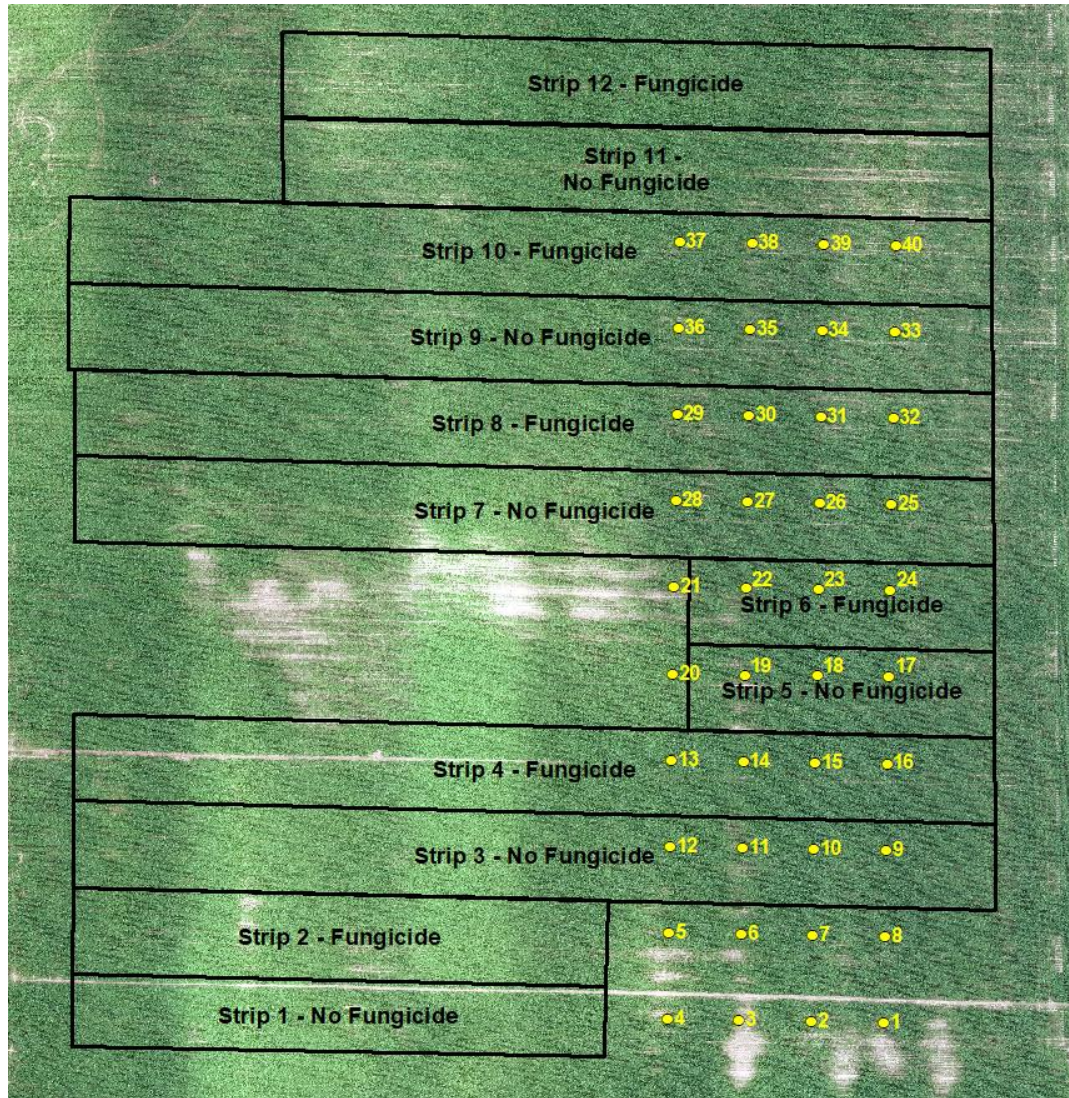
2019 Site 6

Lincoln County

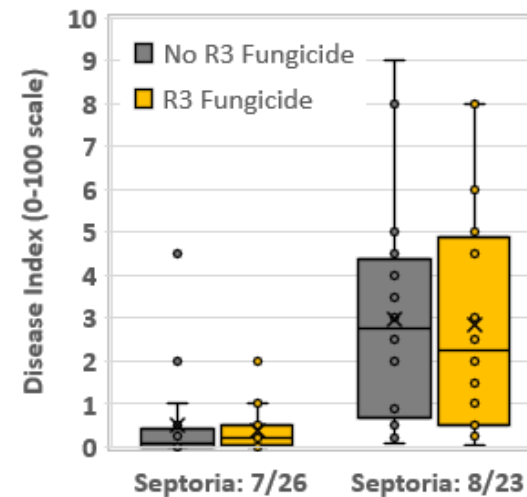
Summary of scouting data. Fungicide applied August 10, 2019. Only Septoria was identified at this location. There is no evidence that fungicide affected scouting results.

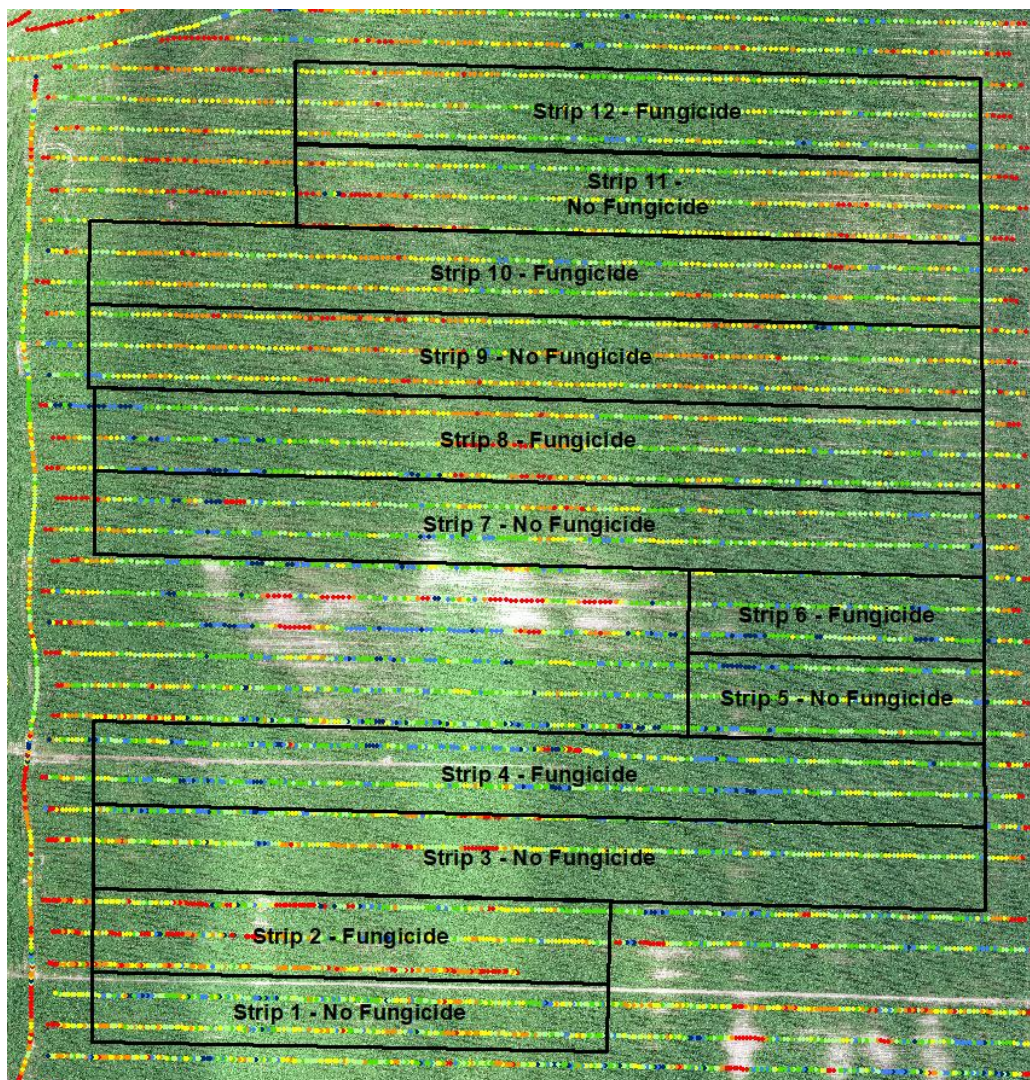
Disease	R3 Fungicide	Number of points	Disease Index ¹ (0-100)		
			Pre-Spray 7/26/2019	Post-Spray 8/22/2019	Delta
Septoria	N	20	0.5	3.0	2.5
	Y	20	0.4	2.9	2.5
Treatment Difference					0.0

¹Disease 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 26 and August 23. Aerial image was taken at 375 feet on July 26, 2019.





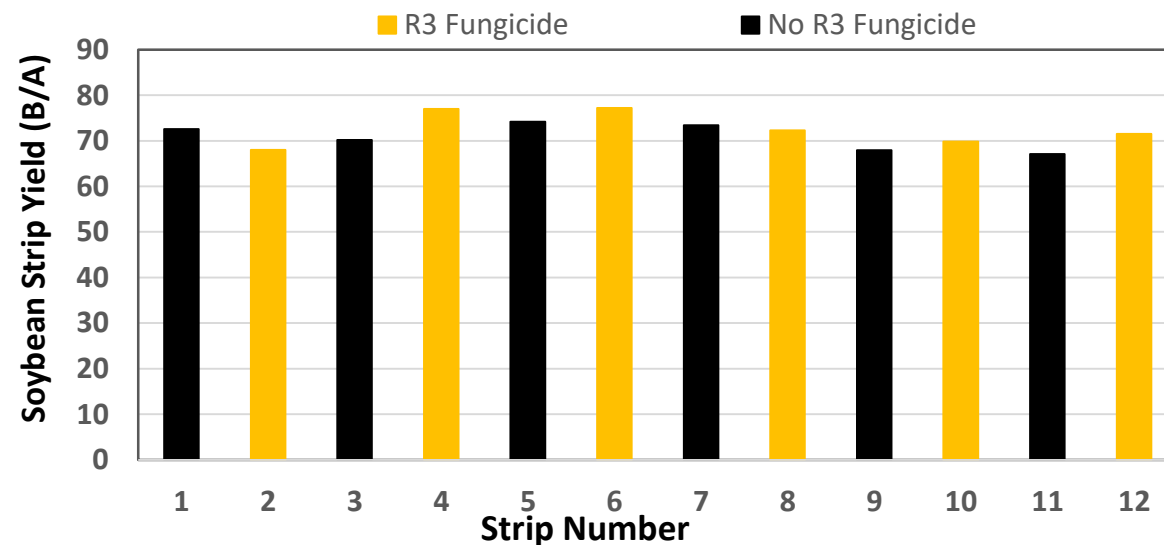
● ≤60 ● 61-65 ● 66-70 ● 71-75 ● 76-80 ● 81-85 ● >85 bu/A

Soybean yield map harvested Oct. 18, 2019. Final strip layout reflects areas of the field not affected by stand issues not related to R3 Fungicide application. Aerial images were taken at 375 feet on August 23, 2019.

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Treatments	Mean	Delta Control
	<i>bushels/acre</i>	
All strips	71.8	--
Control (N)	70.9	--
R3 Fungicide (F)	72.6	1.7

Strip	1	2	3	4	5	6	7	8	9	10	11	12
Fung.	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y
Yield	72.6	68.0	70.2	77.0	74.2	77.2	73.4	72.3	67.9	69.8	67.1	71.5



**Soybean R3 Fungicide Trial
2019 Site 6
Lincoln County**

July 26, 2019 imagery (Pre-treatment)



August 23, 2019 (Post treatment)

Control (no R3 fungicide)

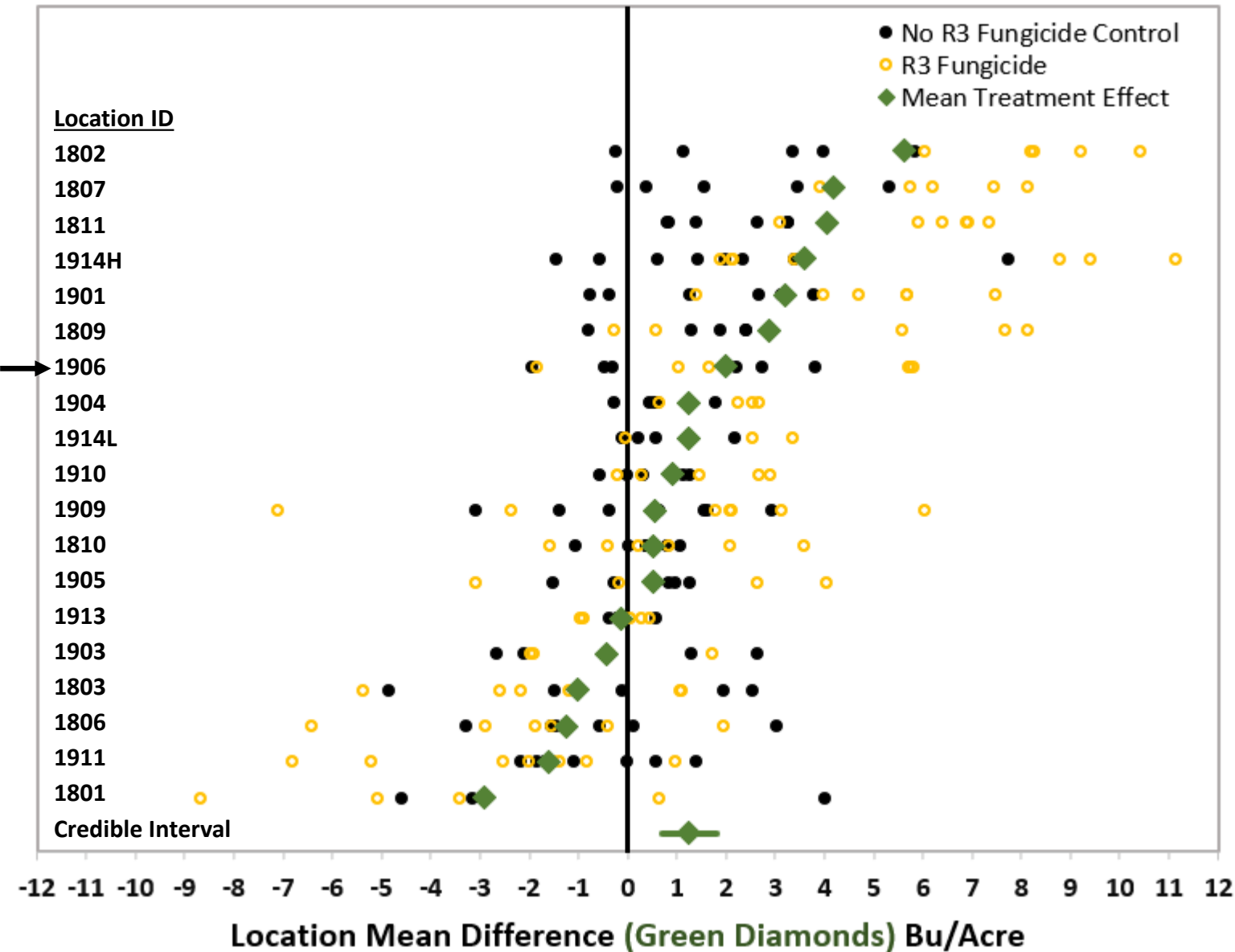


Treated (R3 Fungicide)



High resolution aerial imagery from treated and untreated strips. The top images were taken July 26, 15 days prior to the August 10 R3 fungicide application; the lower images were taken on August 26, 16 days after the fungicide application. Images on the left are from point 28 (untreated) and images on the right are from point 29 (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.