

Soybean R3 Fungicide Trial

2019 Site 9 St. Clair County

Planting date: 6/11/2019

Seeding rate: 140,000 seeds/acre

Variety: Pioneer 47A76L

Previous crop: Corn

R3 fungicide spray date: 8/14/2019

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

Scouted: 7/23 and 8/27/2019

Harvested: 10/20/2019

Replicates: 7

Original trial layout and as-applied map for an R3 fungicide application on August 14, 2019. Aerial image was taken at 375 feet on July 23, 2019.

Soybean R3 Fungicide Trial

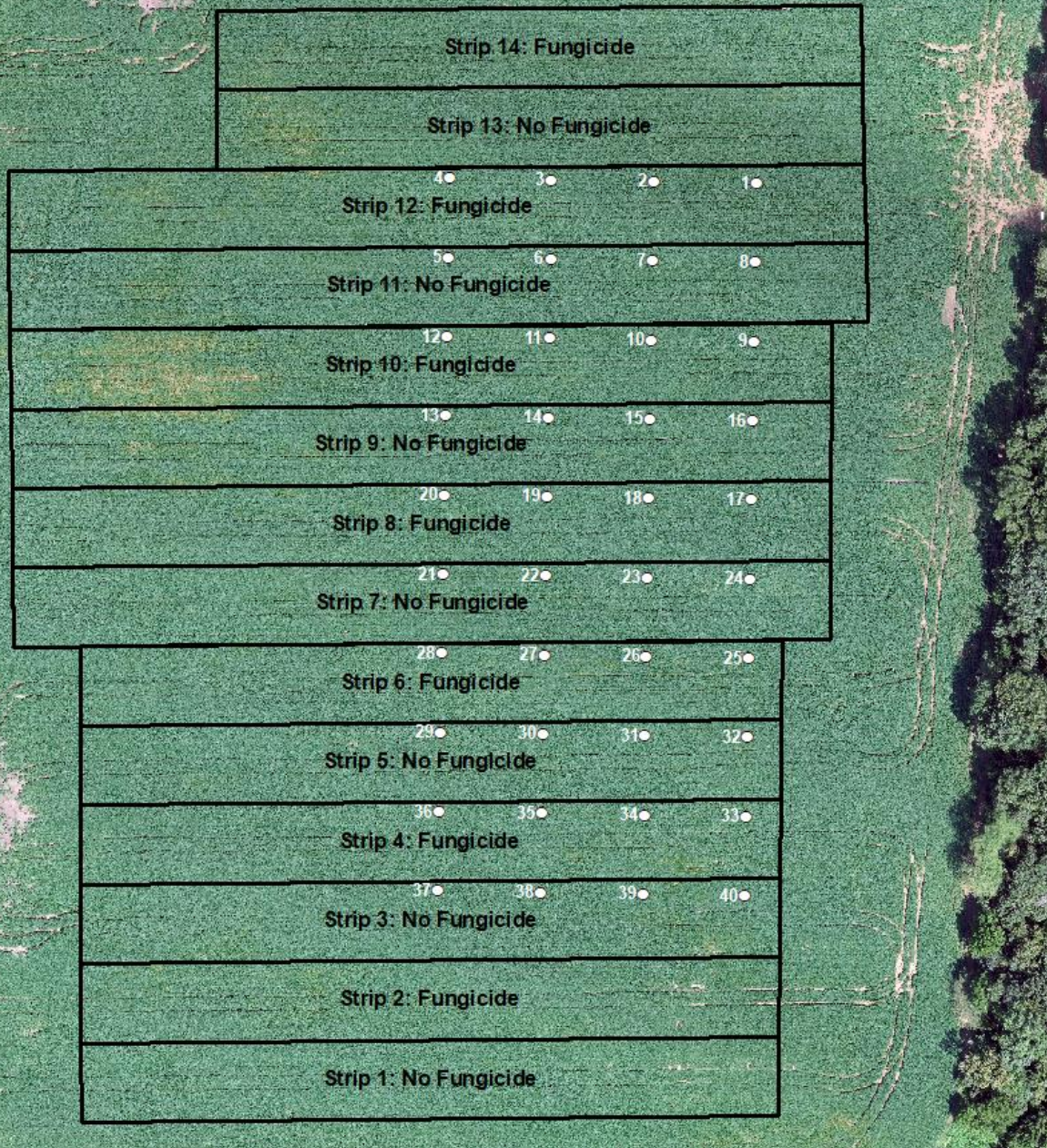
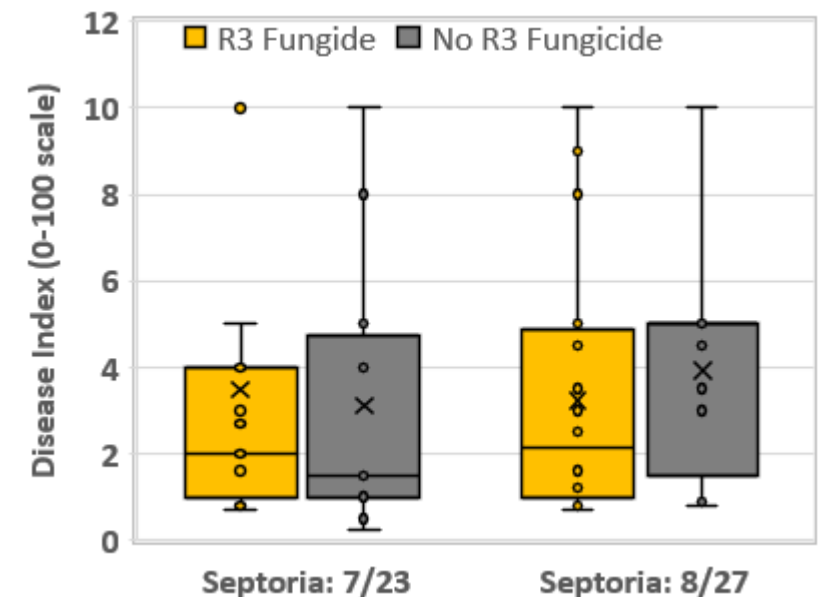
2019 Site 9

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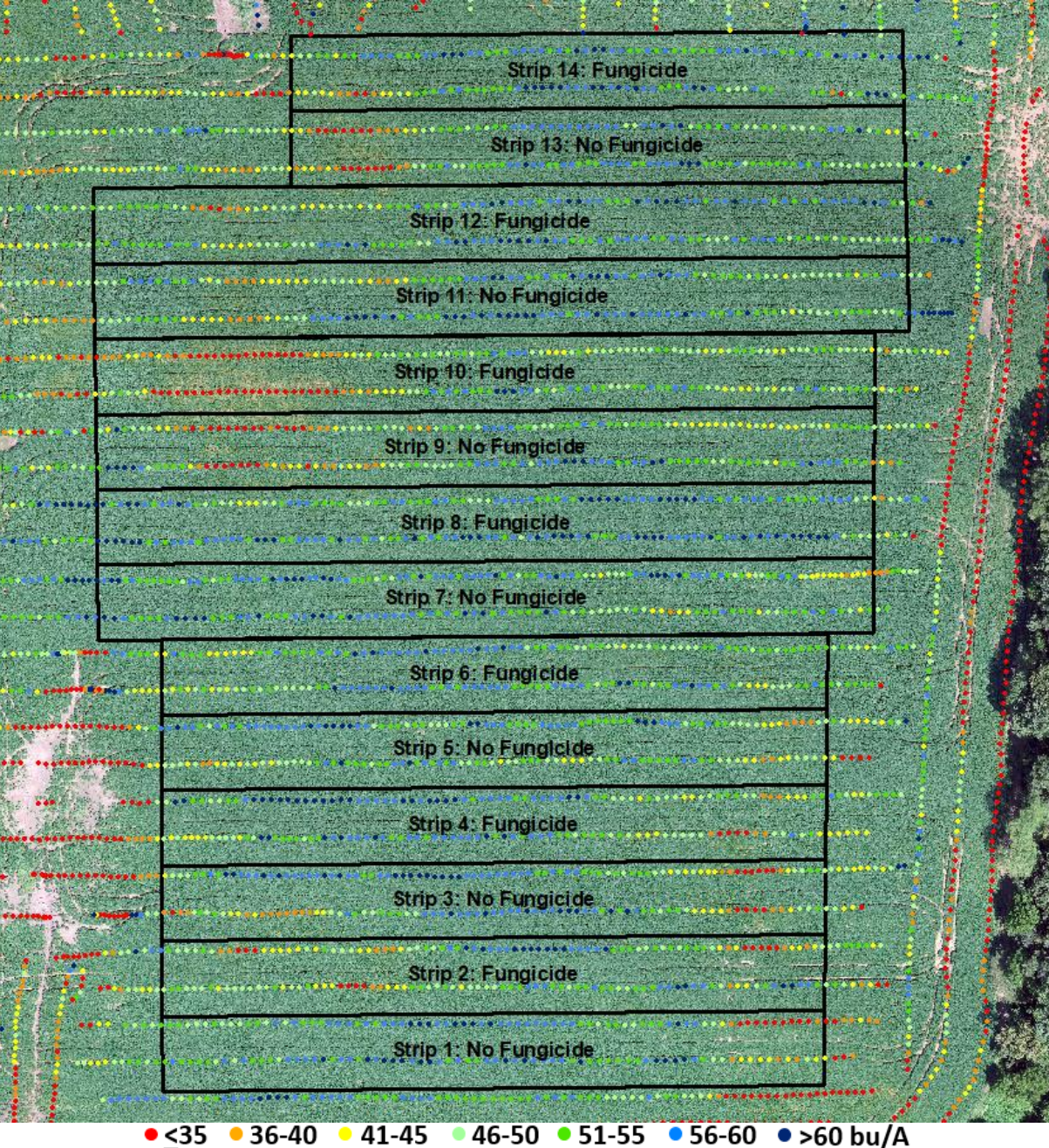
Summary of scouting data. Fungicide applied August 14, 2019. Only Septoria was quantified though sudden death syndrome was also observed. There is no statistical evidence that fungicide affected scouting results.

			Disease Index ¹ (0-100)		
Disease	R3 Fungicide	Number of points	Pre-Spray 7/23/2019	Post-Spray 8/22/2019	Delta
Septoria	N	20	3.1	3.9	0.8
	Y	20	3.5	3.2	-0.3
Treatment Difference					-1.1

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 affected by stand issues related to R3 Fungicide application. Points were scouted on July 23 and August 27. Aerial image was taken at 375 feet on August 27, 2019.



Soybean yield map harvested Oct. 20, 2019. Final strip layout removes areas of the field affected by stand issues related to R3 Fungicide application. Aerial images was taken at 375 feet on August 27, 2019.

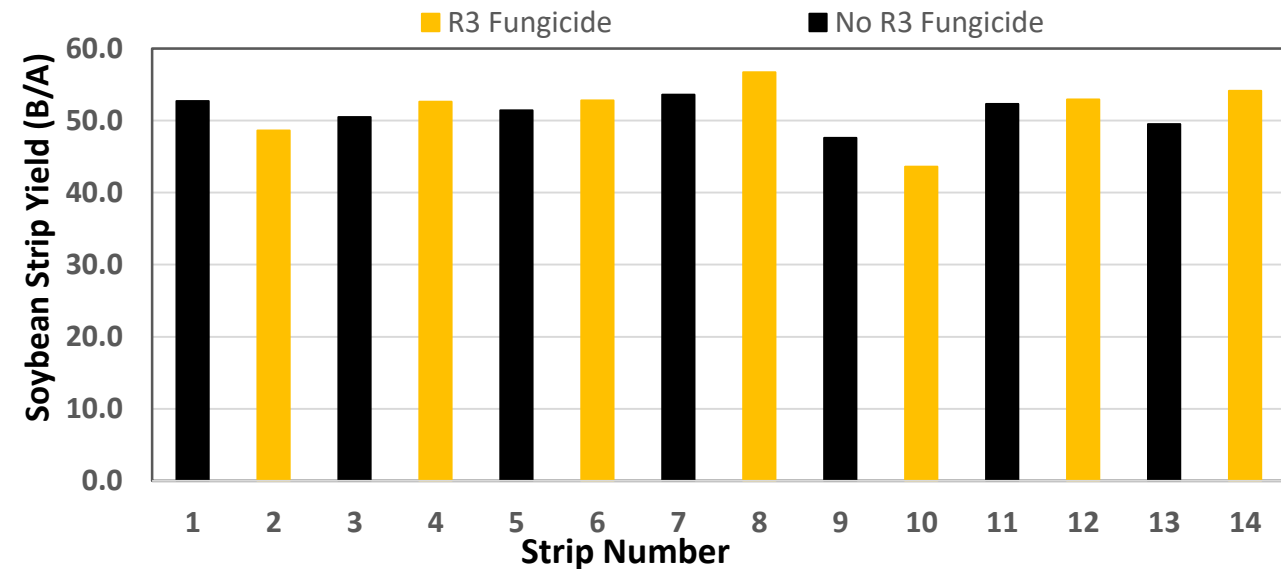
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Treatments	Mean	Delta Control
	<i>bushels/acre</i>	
All strips	51.4	--
Control (N)	51.1	--
R3 Fungicide (F)	51.6	0.5

Strip	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Fung.	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y
Yield	52.7	48.6	50.5	52.6	51.4	52.8	53.6	56.7	47.6	43.6	52.3	52.9	49.5	54.1



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July 23, 2019 (pre-treatment)



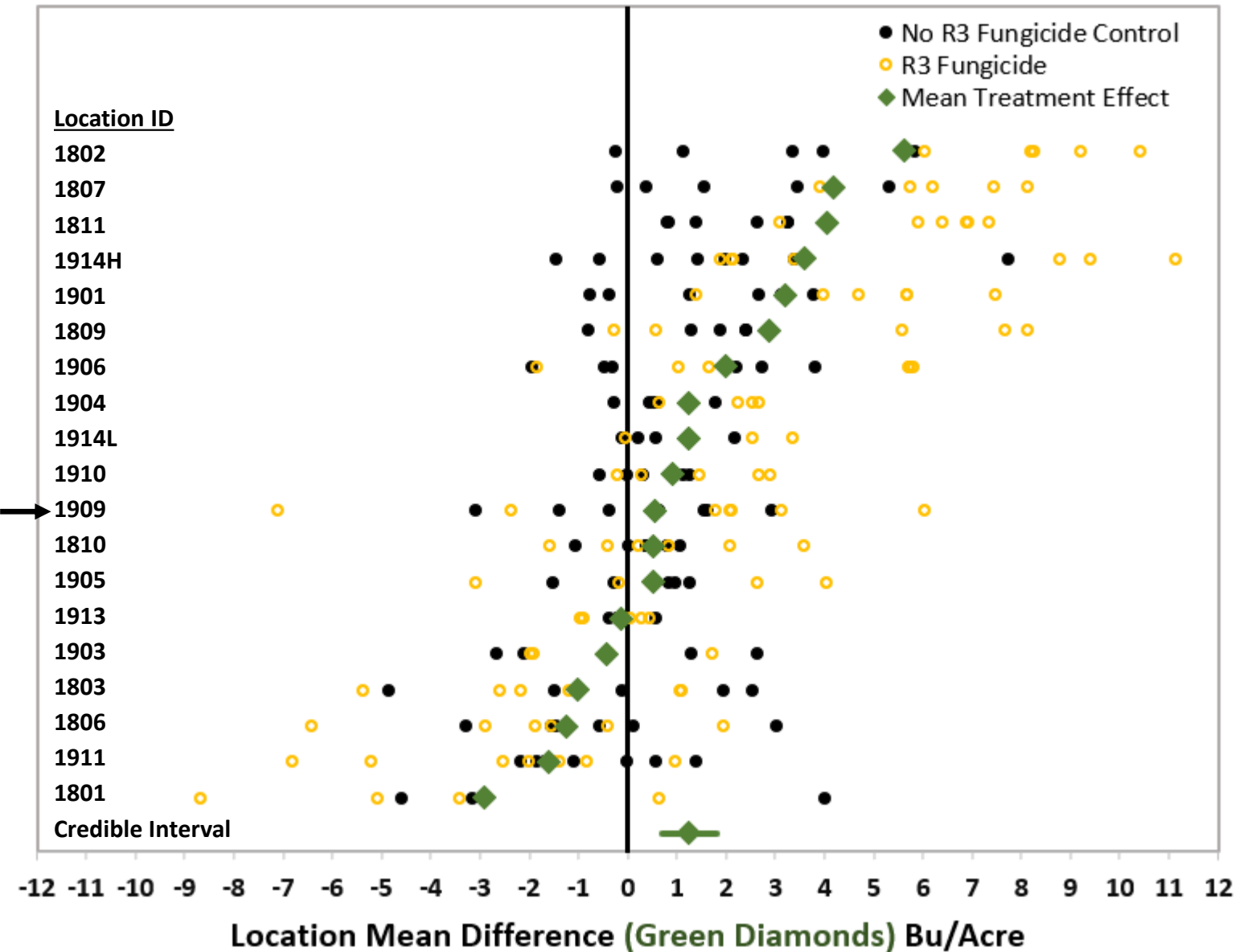
Control (No R3 Fungicide)

August 27, 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.