

## **Trial 35. Evaluation of foliar fungicides for controlling foliar soybean diseases in Oakes, ND (Dryland) - 2025**

SOYBEAN (Glycine max 'XO 1095E')

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The soybean variety XO1095E was planted May 7, 2025, in Oakes, North Dakota, at a rate of 140,000 seeds/a and depth of 1.5 inches in bedded single rows spaced 30 inches apart. Plots were four rows by 20 feet. Treatments were replicated four times and designed in a randomized complete block. Blocks were separated by 5-foot alleys. The field was rainfed and grown to corn the previous year. Soil type was a Barnes-Svea loam with a 0%-3% slope. Standard practices were used to manage weeds and nutrition. Fungicides were applied at 20 gal/A at 40 psi using four XR TeeJet 8002VS flat-fan nozzles spaced at 20 inches apart. Mixing compatibility issues and phytotoxicity were not observed during the trial. Foliar incidence and severity ratings were taken on July 24, 2025, Aug. 13, 2025, and Aug. 22, 2025. Yield was collected from the center two rows on Oct. 1, 2025. Rainfall during the period totaled 17.2 inches, and overall, weather conditions were conducive to disease development. Analysis was conducted using SAS 9.4 PROC GLIMMIX to determine the effects of treatments on disease and yield. Means separations followed Fisher's Protected LSD at  $\alpha=0.05$ .

No differences were observed between treatments for their effect on frogeye leaf spot and Cercospora leaf blight incidence. Disease pressure was very low across the whole trial.

**Table 35.** Effect of foliar fungicides on frogeye leaf spot, Cercospora leaf blight and Septoria brown spot incidence and yield.

Treatment	Rate	Timing <sup>a</sup>	Mean disease incidence (%) <sup>b</sup>		Yield (bu/a)
			Frogeye leaf spot	Cercospora leaf blight	
Non-Treated	-	-	0.08	0.05	62.3
Delaro Complete NIS	8 fl oz/a 0.25% v/v	R3 R3	0.03	0.08	63.1
Adastrio NIS	8 fl oz/a 0.25% v/v	R3 R3	0.00	0.03	60.3
Badge SC NIS	1.5 PT/a 0.25% v/v	R3 R3	0.50	0.25	65.0
Affiance NIS	14 fl oz/a 0.25% v/v	R3 R3	0.05	0.50	62.8
Quilt NIS	12 fl oz/a 0.25% v/v	R3 R3	0.05	1.25	59.7
Delaro Complete NIS	8 fl oz/a 0.25% v/v	R5 R5	0.00	0.03	66.8
Delaro Complete NIS Delaro Complete NIS	8 fl oz/a 0.25% v/v 8 fl oz/a 0.25% v/v	R3 R3 R5 R5	0.00	0.03	63.4
Quilt NIS	12 fl oz/a 0.25% v/v	R5 R5	0.30	0.00	65.4
Viatude NIS	16 fl oz/a 0.25% v/v	R3 R3	0.05	0.30	61.2
<b>P-Value</b>			0.09	0.61	0.33

<sup>a</sup> Growth stage or timing at which the fungicide application was applied.

<sup>b</sup> These incidence ratings for FLS and CLB were recorded on Aug. 22, 2025.