

# Evaluation of Fungicide Application on Soybean Yield

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## Objective

To determine effects of foliar fungicide treatment applied at R3 on soybean yield.

## Background

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Crop Year:	2011	Soil Test	pH = 6
Cooperator:	Morrow SWCD/County Home Farm		OM = 3.5%
County/Town:	Morrow/Mt. Gilead		P = 60 ppm
Soil Type:	Centerburg Silt Loam		K = 140 ppm
Drainage:	Random subsurface	Planting Date:	June 2
Previous Crop:	Corn	Seeding Rate:	210,000 seeds/ac
Variety:	Pioneer 93M42	Row Width:	7.5 inches
Tillage:	No-Till	Herbicide:	June 6, 3.5 oz Canopy and 1 qt Buccaneer Plus w/Array
		Harvest Date:	November 8

## Methods

The study consisted of three replications in a randomized complete block experimental design. One treatment of 6 ounces of Quadris applied on August 2, 2011. At application time the soybeans were at the R3 growth stage. A non-treated control was also used. The treatments were made with a Case Patriot sprayer using a 90 foot boom. The center 50 feet of each treatment were harvested with an IH 1480 combine and weighed with a weigh wagon. Yields were calculated from individual treatment row lengths. Row length averaged 354 feet. Yields were adjusted to 13% grain moisture.

## Results

	Yield (bu/A)
Quadris (6fl oz/A)	53.4
Non treated	48.4
<b>LSD (0.05)</b>	<b>3.3</b>
CV	1.8
<b>P</b>	<b>0.02</b>

## Summary

There was a significant difference in yields between the fungicide application and non-treatment. Rainfall for June to October was 2.46 inches above the 30 year average. Yields were typical for

most years at this location. No significant foliar disease damage was observed during scouting at the R2 growth stage. No ratings were taken following fungicide treatments. The variety used was rated by the company as resistant to Frogeye Leaf Spot.

## **Acknowledgement**

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