

## Soybean Foliar Fungicide Trial

Trial ID: 2017-SF05 – R.M. of Morris

**Objective:** Quantify the agronomic and economic impacts of foliar fungicide in soybean fields. A single application of Cotegra was compared to an untreated check strip.

### TRIAL INFORMATION

<b>Treatment</b>	Cotegra vs. Untreated
<b>Rural Municipality</b>	Morris
<b>Previous Crop</b>	Soybeans
<b>Soil Description</b>	Clayey Lacustrine
<b>Tillage</b>	Conventional
<b>Planting Date</b>	May 12, 2017
<b>Variety</b>	LS Mistral
<b>Row Spacing</b>	30"
<b>Plant Stand @ Harvest</b>	141,000 plants/ac
<b>Application Date</b>	July 11, 2017
<b>Application Timing</b>	R2 – Full Flower
<b>Application Rate</b>	280 ml/ac
<b>Harvest Date</b>	September 21, 2017

### PRECIPITATION<sup>†</sup>

	May	June	July	Aug
<b>Rainfall</b>	20.1	49.1	54.3	13.1
<b>Normal</b>	67.6	101.8	85.6	83.9

<sup>†</sup> Growing season precipitation (mm)

### DISEASE RATING @ GROWTH STAGE R6

	WM Incidence	BS Incidence	BS Severity <sup>†</sup>
<b>Cotegra</b>	0%	59%	1.0
<b>Untreated</b>	0%	100%	1.4
<b>P-Value</b>	n/a	<0.0001	0.0002
<b>Significance</b>	n/a	Yes	Yes

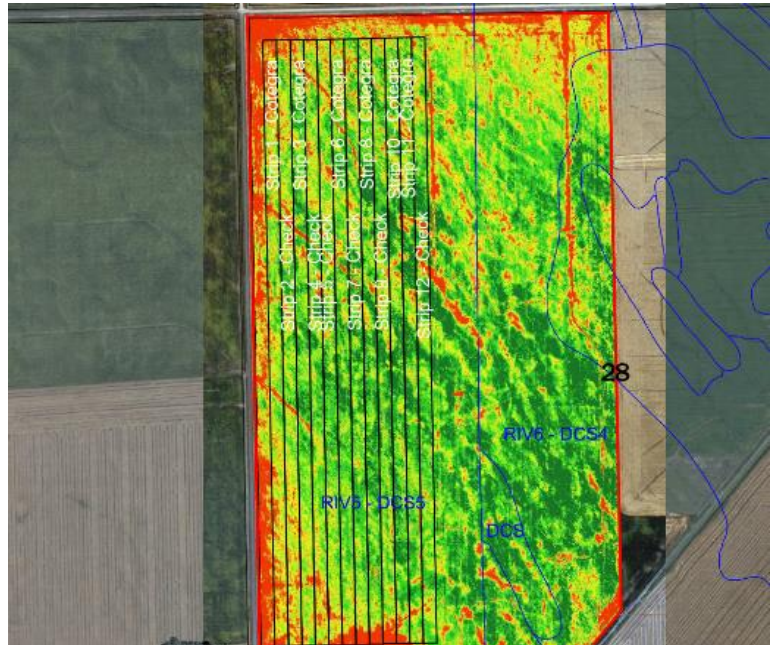
WM = White Mould, BS = Brown Spot

<sup>†</sup> Rated on a scale of 0-5 (0 = no disease, 5 = full infection)

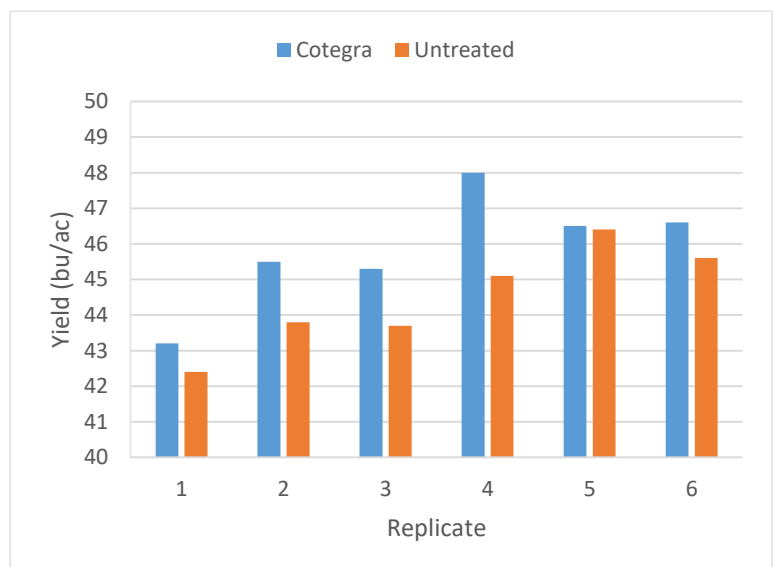
### OVERALL YIELD

	Mean (bu/ac)
<b>Cotegra</b>	45.9
<b>Untreated</b>	44.5
<b>Yield Difference</b>	1.4
<b>P-Value</b>	0.0181
<b>CV</b>	3.6%
<b>Significance</b>	Yes

### FIELD IMAGE



### STRIP YIELD



**Summary:** There was a significant yield difference of 1.4 bu/ac between a single application of Cotegra and untreated check strips applied at R2 (full flower). Cotegra significantly reduced the brown spot incidence and severity within the trial compared to untreated strips. There was no white mould found within the trial when rated at growth stage R6.