

Soybean Foliar Fungicide Trial

Trial ID: 2017-SF10 – R.M. of Dufferin

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

TRIAL INFORMATION

| | |
|------------------------------|-----------------------|
| Treatment | Acapela vs. Untreated |
| Rural Municipality | Dufferin |
| Previous Crop | Soybeans |
| Soil Description | Sandy Loam Lacustrine |
| Tillage | Zero Till |
| Planting Date | May 12, 2017 |
| Variety | NSC Richer RR2Y |
| Row Spacing | 15" |
| Plant Stand @ Harvest | 157,000 plants/ac |
| Application Date | July 13, 2017 |
| Application Timing | R2 – Full Flower |
| Application Rate | 355 ml/ac |
| Harvest Date | October 4, 2017 |

PRECIPITATION[†]

| | May | June | July | Aug |
|-----------------|------|------|------|------|
| Rainfall | 29.1 | 65.5 | 27.4 | 24.0 |
| Normal | 67.7 | 96.4 | 78.6 | 74.8 |

[†] Growing season precipitation (mm)

DISEASE RATING @ GROWTH STAGE R6

| | WM Incidence | BS Incidence | BS Severity [†] |
|---------------------|-----------------|-----------------|-----------------------------|
| Acapela | 0% | 13% | 1.0 |
| Untreated | 1.7% | 25% | 1.1 |
| P-Value | 0.0725 | 0.0612 | 0.0401 |
| Significance | No | No | Yes |

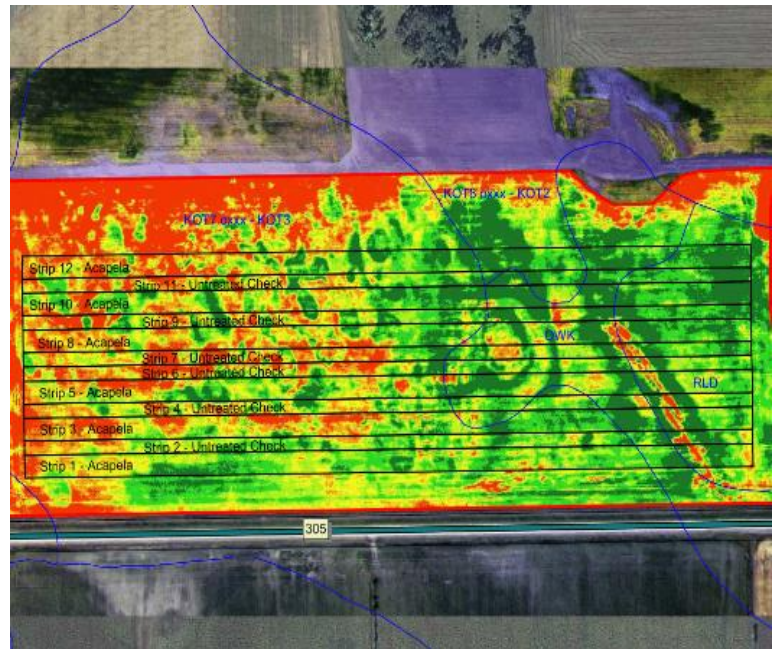
WM = White Mould, BS = Brown Spot

[†] Rated on a scale of 0-5 (0 = no disease, 5 = full infection)

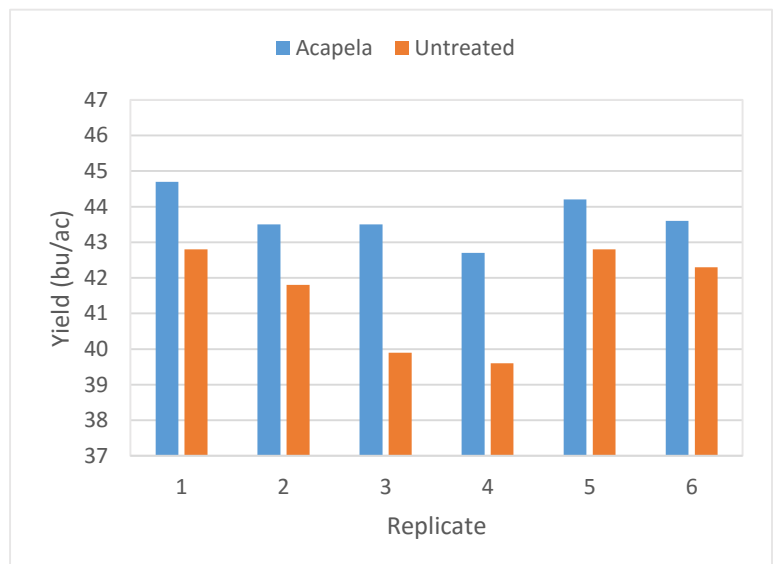
OVERALL YIELD

| | Mean (bu/ac) |
|-------------------------|--------------|
| Acapela | 43.7 |
| Untreated | 41.5 |
| Yield Difference | 2.2 |
| P-Value | 0.0026 |
| CV | 3.7 |
| Significance | Yes |

FIELD IMAGE



STRIP YIELD



Summary: There was a significant yield difference of 2.2 bu/ac between a single application of Acapela and untreated check strips applied at R2 (full flower). Acapela significantly reduced the brown spot severity; however, there was no difference between brown spot incidence within the trial compared to untreated strips. Only trace amounts of white mould were found when rated at growth stage R6.

MPSG would like to thank DuPont for providing the chemical for this trial and Tone Ag Consulting for conducting the research