



**on-farm network**  
PARTICIPATORY • PRECISE • PROACTIVE

# Soybean Fungicide Trial

**Trial ID:** 2023-SF01 – R.M. of De Salaberry

**Objective:** Quantify the agronomic and economic impacts of a single foliar fungicide application vs. none in soybeans.

**Summary:** 10% fewer plants had Septoria brown spot symptoms with a fungicide application. There was no significant yield difference between soybeans with and without a single application of Veltyma. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of fungicide.

## Trial Information

|                           |                   |
|---------------------------|-------------------|
| <b>Treatment</b>          | Veltyma           |
| <b>Application Timing</b> | R1                |
| <b>Application Date</b>   | July 3            |
| <b>Application Rate</b>   | 203 mL/ac         |
| <b>Application Method</b> | Aerial            |
| <b>Soil Texture</b>       | Clay Loam         |
| <b>Previous Crop</b>      | Wheat             |
| <b>Tillage</b>            | Conventional      |
| <b>Seeding Date</b>       | May 14            |
| <b>Variety</b>            | S007-A2XS         |
| <b>Seeding Rate</b>       | 170 000 seeds/ac  |
| <b>Row Spacing</b>        | 20"               |
| <b>Plant Stand @ R3</b>   | 148 500 plants/ac |
| <b>Harvest Date</b>       | September 20      |

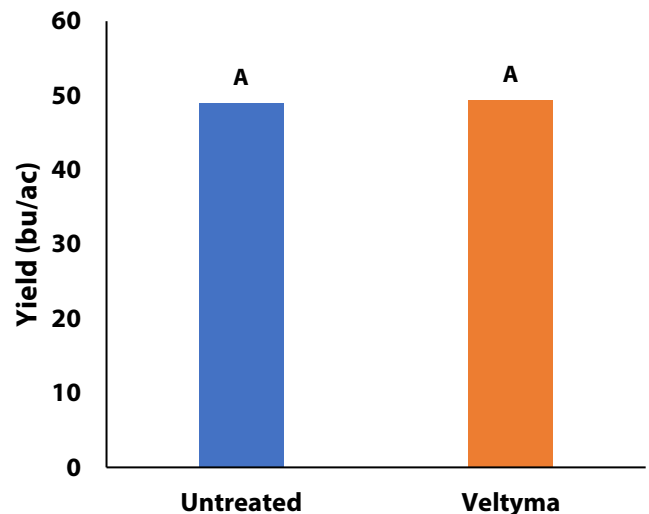
## Field Image



## Precipitation (mm)

|                 | May  | June | July | Aug  | Total |
|-----------------|------|------|------|------|-------|
| <b>Rainfall</b> | 19.5 | 45.9 | 59   | 32.5 | 157   |
| <b>Normal</b>   | 52.6 | 94.7 | 70   | 51.7 | 269   |
| <b>% Norm</b>   | 37%  | 48%  | 85%  | 63%  | 58%   |

## Yield by Treatment



## Summary of Disease Rating (R3)†

|               | Incidence (% plants infected) |          |             |             |                  |
|---------------|-------------------------------|----------|-------------|-------------|------------------|
|               | Septoria B.S.                 | Frog Eye | Stem Canker | White Mould | Bacterial Blight |
| <b>Single</b> | 90% (1.1)                     | 33%      | 0%          | 0%          | 45%              |
| <b>None</b>   | 80% (1.0)                     | 35%      | 0%          | 0%          | 45%              |

† Septoria brown spot severity, listed in brackets, was rated on a 0-5 scale.



**on-farm network**  
PARTICIPATORY • PRECISE • PROACTIVE

## Soybean Fungicide Trial

### Overall Yield & Economics

|                           | Mean (bu/ac) | Cost †          | Change in Profit †† |
|---------------------------|--------------|-----------------|---------------------|
| <b>Single Application</b> | 49.0         | \$23/ac         | -\$23/ac            |
| <b>Untreated</b>          | 49.4         |                 |                     |
| <b>Yield Difference</b>   | -0.4         |                 |                     |
| <b>P-Value</b>            | 0.537        |                 |                     |
| <b>CV</b>                 | 1.4%         |                 |                     |
| <b>Significance</b>       | <b>No</b>    | <b>Economic</b> | <b>No</b>           |

† Based on an estimated cost for a single application of soybean fungicide; does not include application cost

†† Because yields were not significantly different, there is no increased income to offset the cost of the fungicide. Profit/ac declined by the cost of the fungicide application.