



Manitoba Crop Alliance
SUNFLOWER FUNGICIDE TREATMENT
Replicated Strip Trial Protocol



OBJECTIVE: The purpose of this project is to quantify the impact of a fungicide treatment on Sunflower for control of Sclerotinia Head rot.

BRIEF SUMMARY:

- The grower will plant either a confection or oil type sunflower hybrid.
- The grower will manage their crop as per their normal best management practices.
- The grower will apply 1-2 fungicides for sclerotinia head rot control to 4 strips. Untreated strips will be included. An example is shown on the right.
- Strips should be full length of the field (minimum 1000 ft.) and width to allow for a full “pure” pass with combine header.

| | |
|-------|--------------|
| Rep 1 | Fungicide #1 |
| | Fungicide #2 |
| | Untreated |
| Rep 2 | Untreated |
| | Fungicide #1 |
| | Fungicide #2 |
| Rep 3 | Untreated |
| | Fungicide #1 |
| | Fungicide #2 |
| Rep 4 | Fungicide #2 |
| | Fungicide #1 |
| | Untreated |

GROWER REQUIREMENTS:

- Accurately record soil test results, variety, seeding date and rate, previous cropping history (rotation, fertilizer rates), tillage practices, fertilizer rates and application timing.
- Accurately record where all treatments are within the field.
- Note any significant weather events throughout the growing season, such as high winds, hail, or extreme precipitation events.
- Areas containing waterways and headlands should be avoided. All other factors in the trial area must be treated the same.
- Alert trial coordinator of expected harvest date and ensure all treatments are harvested the same day into a weigh wagon/calibrated grain cart, and that grain samples can be secured for seed moisture and seed quality analysis.
- Allow MCA to use data for research, educational and information purposes.
- ***Must be a member in good standing with the MCA.***

MCA AND PARTNERS AGREE TO:

- Be available during seeding and harvesting.
- Take various measurements, including stand establishment, height, lodging and crop maturity.
- Provide a report analyzing the statistical and economical treatment differences.
- Keep data in a confidential manner that cannot be linked back to the individual grower by other parties.

RESEARCH ON THE FARM COACHES:

- Project coordinator will work with local Research On The Farm coaches to collect field observations and harvest.
- Research On The Farm coaches may be local Manitoba Agriculture staff, retail or independent agronomists.

BENEFITS TO GROWERS:

- Access to the latest research that can be applied to their farm.
- Determine profitability of the practices.
- Learn accepted on-farm testing procedures.



Example of head rot