

Manitoba Pulse & Soybean Growers On-Farm Network Soybean Inoculant Trial – Single vs No Inoculant

Objective

The purpose of this project is to quantify the agronomic and economic impacts of alternating strips of seed with inoculant vs seed without inoculant. This field needs to have a **previous history of at least 3 years of soybeans in Eastern Manitoba**

Brief Summary

- The farmer will seed 6 strips of **seed treated with inoculant**, alternating with 6 strips of **no inoculant**
- The width of the strip must be at least as wide as the combine pass, preferably wider and the length should be at least 1000 feet
- The alternating strips can be planted by using GPS to plant every other strip with one treatment and then filling in skipped passes with second treatment if necessary
- Harvesting must ensure at least one “pure” combine pass from each treatment (not mixing yields from two different treatments)

Rep 1	Seed Applied Only
	Untreated (No Inoculant)
Rep 2	Seed Applied Only
	Untreated (No Inoculant)
Rep 3	Seed Applied Only
	Untreated (No Inoculant)
Rep 4	Seed Applied Only
	Untreated (No Inoculant)
Rep 5	Seed Applied Only
	Untreated (No Inoculant)
Rep 6	Seed Applied Only
	Untreated (No Inoculant)

Farmer Requirements

- Accurately record where all treatments are applied, including the time of application, variety etc. and flag corners
- Areas containing waterways and headlands should be avoided. All other factors in the trial area must be managed the same (planting date, variety, crop protection, etc.)
- Allow MPSG to soil sample trail area **before planting** to determine background levels of *B. Japonicum*
- If possible, accurately record where all treatments were applied using GPS mapping equipment.
- Alert MPSG of expected harvest date and ensure all treatments are harvested on the same day with the rows into an MPSG weigh wagon
- If available, harvest with a calibrated yield monitor equipped with GPS
- Allow MPSG to use submitted and collected data for research, educational and informational purposes
- All participants must be a member in good standing with MPSG

MPSG Requirements

- Be available at seeding and harvesting
- Data collection throughout the growing season
- Collect an aerial image of the trial and supply to the farmer at no cost
- Provide a report analyzing the treatment differences after harvest
- Conduct intensive soil sampling for Dr. Oresnik at the University of Manitoba to determine *B. Japonicum* populations before and after seeding
- Keep data in a confidential manner that can't be linked back to the individual farmer
- Make this **minimum work for farmers**.

Benefits to the Farmer

- Test production practices while being involved in the research process
- Access to latest research which can be adapted to their farm
- Creating a crop production database for your local area

Contact

If you are interested in participating in this project, contact Greg Bartley at:
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