

## Manitoba Pulse & Soybean Growers On-Farm Network Soybean Potassium Fertility

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### Objective

The purpose of this project is to quantify the agronomic and economic impacts of potassium fertilizer on soybean production fields with <150 ppm soil test K

### Brief Summary

- The farmer will apply 6 strips of potassium fertilizer alternating with 6 strips of an untreated check. The farmer will choose the placement and rate that is most applicable to their farm:
  - 1) sideband (60 lbs potash/ac)
  - 2) broadcast and incorporated (120 lbs potash/ac)
- The width of a strip must be at least as wide as the combine pass, preferably wider and the length should be at least 1000 ft
- Harvesting must ensure at least one “pure” combine pass from each treatment (not mixing yields from two different treatments)

Rep 1	Potassium Fertilizer
	Untreated Check
Rep 2	Potassium Fertilizer
	Untreated Check
Rep 3	Potassium Fertilizer
	Untreated Check
Rep 4	Potassium Fertilizer
	Untreated Check
Rep 5	Potassium Fertilizer
	Untreated Check
Rep 6	Potassium Fertilizer
	Untreated Check

### Farmer Requirements

- Accurately record where all treatments are applied, including date of application, seeding date, variety, etc.
- Areas containing waterways and headlands should be avoided. All other factors in the trial area must be managed the same (planting date, variety, etc.)
- If possible, accurately record where all treatments were applied using GPS mapping equipment
- Alert MSPG of expected harvest date and ensure all treatments are harvested on the same day with the rows into an MSPG weigh wagon
- If available, harvest with a calibrated yield monitor equipped with GPS
- Allow MSPG to use collected data for research, educational, and informational purposes.
- Farmers must be a member in good standing with MSPG

### MPSG Requirements

- Be available at planting and harvest to assist with the on-farm research process
- 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 treatment differences after harvest
- Keep the data in a confidential manner that can't be linked back to the individual farmer
- Make this **minimum work for the farmer**.

### Benefits to the farmer

- Test production practises on your farm while being involved in the research process
- Create a crop production database for your local area to help guide management decisions

### Contact

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