



Manitoba Crop Alliance
CORN – STARTER PHOSPHORUS
Replicated Strip Trial Protocol



**MANITOBA
CROP
ALLIANCE**

OBJECTIVE: The purpose of this project is to quantify the impact of starter Phosphorus in Corn – 6 sites.

BRIEF SUMMARY:

- Corn fields with high soil phosphorous ratings will be located and sampled to confirm.
- The grower will plant a corn hybrid with and without starter Phosphorus.
- The grower will plant the strips of corn with and without additional starter Phosphorus similar to the example on the right.
- Strips should be full length of the field (minimum 1000 ft.) and width to allow for a full “pure” pass with the combine header.
- The grower will keep the rest of the fertility the same on the strips and will manage their crop as per their normal best management practices.

Rep 1	With Phosphorus
	No Additional Phosphorus
Rep 2	No Additional Phosphorus
	With Phosphorus
Rep 3	No Additional Phosphorus
	With Phosphorus
Rep 4	With Phosphorus
	No Additional Phosphorus

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.