



Manitoba Crop Alliance
BARELY VARIETY TRIALS
Replicated Strip Trial Protocol



OBJECTIVE: The purpose of this project is to quantify the agronomic and economic impacts of new barley varieties released within the last 2 years.

BRIEF SUMMARY:

- The grower will plant a check variety of AAC Synergy or AAC Connect (malt) or CDC Austenson (Feed) along with a maximum of two new varieties that have been released in the last 2 years. The growers can mix malt and feed varieties if they wish but it is recommended to use Austenson as a check in these scenarios.
- The grower will manage their crop as per their normal best management practices.
- The grower will seed each variety in alternating strips in the field so that each variety has 4 strips in total.
- 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	Check Variety
	New Variety A
	New Variety B
Rep 2	New Variety B
	Check Variety
	New Variety A
Rep 3	Check Variety
	New Variety B
	New Variety A
Rep 4	New Variety A
	New Variety B
	Check Variety

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.