

Manitoba Crop Alliance (MCA) and the Canadian Malting Barley Technical Center (CMBTC) Malt Barley Variety Trial – On-Farm Replicated Strip Trial Protocol

PROJECT: *Assessment of New Malting Barley Varieties for Production and Malting Selection in Manitoba*

OBJECTIVE: The purpose of this project is to quantify the impacts of malt barley characteristics & agronomy on yield and quality of new malt barley varieties at 6 sites in Manitoba.

BRIEF SUMMARY:

- The grower will plant their normal malt barley variety compared with a minimum of two other new malting varieties (AAC Synergy as the check and 2 of either AAC Connect, CDC Bow, CDC Fraser, CDC Copper or CDC Churchill).
- The grower will manage their crop as per their normal malt barley best management practices.
- The grower will seed their malting variety (check variety) on 3 strips, alternating with 3 strips of two other varieties. An example is shown on the right comparing two varieties.
- Seed for all tests will be sourced in one lot from the respective seed companies by the CMBTC.
- Strips should be full length of the field (minimum 1000 ft.) and the width of a strip to allow for a full “pure” pass with a swather or combine header.

Rep 1	New Variety 1
	New Variety 2
	Check Variety
Rep 2	Check Variety
	New Variety 2
	New Variety 1
Rep 3	New Variety 2
	New Variety 1
	Check Variety

GROWER REQUIREMENTS:

- Accurately record soil test results, varieties, seeding date and rate, previous cropping history (rotation, fertilizer rates), tillage practices, fertilizer rates and application timing.
- Accurately record when all pesticide treatments are applied, temperature at application, crop stage at application, and rainfall a week prior to and one week after application.
- 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.
- Notify project coordinator prior to application so fields can be scouted prior to and after application of product.
- Alert project 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 protein, quality and moisture content 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, early season vigour, lodging and crop maturity.
- Take seed samples at harvest to put through a malt selection & quality testing process as well as micro malting at CMBTC.
- Provide a report analyzing treatment differences.
- Provide report of malt barley quality analysis.

ON-FARM TRIAL (OFT) COACHES:

- Project coordinator will work with local OFT coaches to collect field observations and harvest.
- OFT coaches may be local Manitoba Agriculture staff, retail or independent agronomists.
- Some compensation will be offered to agronomists that assist with ensuring measurements are taken.

BENEFITS TO GROWERS:

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

To sign up or for questions, please contact:

Daryl Rex, MCA 204.745.6661 daryl@mbcropalliance.ca	Jordan Karpinchick, ToneAg 204.433.7189 jordankarpinchick@toneag.com	Peter Watts, CMBTC 204.983.1981 pwatts@cmbtc.com	Shelley Lagasse, CMBTC 204.333.1503 slagasse@cmbtc.com
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