

Manitoba Crop Alliance – On Farm Trials (OFT)

Wheat Plant Growth Regulator

Replicated Strip Trial Protocol



MANITOBA
CROP
ALLIANCE

PROJECT: MANAGEMENT OF LODGING IN SPRING WHEAT WITH A PLANT GROWTH REGULATOR (PGR) – 10 sites

OBJECTIVE: The purpose of this project is to quantify the impact of a plant growth regulator on height, lodging and yield of spring wheat.

BRIEF SUMMARY:

- The grower will plant a CWRS or CNHR spring wheat variety.
- The grower will manage their crop as per their normal best management practices.
- The grower will spray PGR at the recommended rate at the growth stage (GS) 31 to 32 timing (1 to 2 node stage - early stem elongation) timing on 4 strips, alternating with 4 untreated strips. An example is shown on the right.
- 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	PGR
	Check
Rep 2	Check
	PGR
Rep 3	Check
	PGR
Rep 4	PGR
	Check

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 applied, temperature at application, crop stage at application, and rainfall a week prior 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 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 product application and harvesting.
- Take various measurements, including stand establishment, height, lodging and crop maturity.
- Provide a report analyzing treatment differences.

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 untreated areas and harvest measurements.

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 for a trial or for questions, please contact:

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