

**Manitoba Wheat and Barley Growers Association (MWBGA) – OFT
High Yield and Protein Wheat On-Farm-Tests**



POST-ANTHESIS NITROGEN (PAN) – 10 sites

OBJECTIVE

The purpose of these projects is to quantify nitrogen management practices to produce high yield spring wheat with acceptable protein quality.

BRIEF SUMMARY

- The grower will plant a high yielding variety (e.g. Brandon, Prosper, Fallor) and manage for high yield through early seeding, base rate of N, PK&S and needed fungicides
- The grower will apply 4 PAN treatment strips alternating with untreated strips
- 30 lb N as UAN (10 US gpa) will be diluted 50:50 with water and applied post-anthesis (7-10 days after FHB spray) using flat fan nozzles and targeting the heads
- Spray in evening or morning to avoid heat of day and minimize leaf burn
- The grower will receive partial support for the cost of extra applied N
- Strips should be full length of the field (minimum 1000 ft.) and width to allow for a full pass with combine header

Rep 1	Check
	PAN
Rep 2	Check
	PAN
Rep 3	Check
	PAN
Rep 4	Check
	PAN

GROWER REQUIREMENTS

- Accurately record where all treatments are applied including time of application and flag strips. Provide soil test level if available. Keep rainfall records
- Areas containing waterways and headlands should be avoided. All other factors in the trial area must be treated the same
- Notify project coordinator of project intention so fields can be scouted for N and aerial NDVI flights scheduled
- Alert project coordinator of expected harvest date and ensure all treatments are harvested the same day into a weigh wagon.
- Allow MWBGA to use data for research, educational and information purposes

MWBGA AND PARTNERS AGREE TO

- Be available during N application and harvesting
- Take various measurements to help explain results – flag leaf N, GreenSeeker NDVI, lodging, leaf injury, etc
- Attempt to collect aerial NDVI images and provide to grower (either satellite or UAV)
- Provide a report analysing treatment differences

OFT COACHES

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

BENEFITS TO GROWERS

- Access to latest research that can be applied to their farm
- Creating a crop production data base for your local area
- Determine profitability of the practices
- Learn accepted on-farm-testing procedures

**[To sign up or for questions, contact
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