

# Rolling Wheat

## Objective

Assess the impact of rock-rolling on wheat emergence and yield

Varieties – All varieties

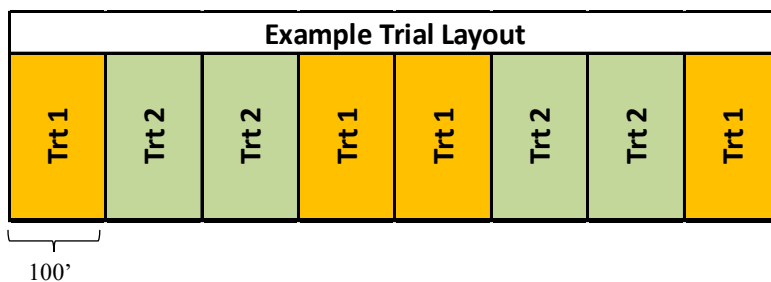
## Treatments

Control      No rolling

Treatment      Wheat rolled after planting, prior to emergence

Plot size:      Strips should be wide enough to harvest one combine pass **without sprayer tracks**, and at least 750-1000 ft long.

Replications:      At least 4-5 replications of each treatment (8-10 plots total) are needed.



Please notify the Research Coordinator or your coordinating agronomist before planting and harvest so they assist with the trial

## Harvest

- Yield can be measured using one of MN Wheat's weigh wagons to record yield and obtain protein samples
  - MN Wheat Staff will be available with the weigh wagon to assist with harvest
- OR
- Yield can be measured in the producer's grain cart with a calibrated scale
  - Grain cart must be able to accurately measure to less than 50 lbs
  - Protein samples will need to be collected as the combine empties each plot into the grain cart
- Combine passes **MUST** avoid sprayer tracks and drown-outs
- MN Wheat will collect the yield map following harvest, if available
  - Participants will be compensated \$250 for sharing data

## Data MN Wheat will Collect

- Precipitation and other weather data.
- Wheat stand counts and vigor assessment
- Grain yield, moisture, test weight, protein

### Producer Report

- Participants will receive a preliminary statistical analysis of all harvested trials as soon as all trials are harvested, and the data can be analyzed by MN Wheat.
- Participants will receive a pdf and paper copy of the annual On-Farm Research Report following the annual On-Farm Research Summit.
- Participants are eligible for one free night at the CanadInn during the Prairie Grains conference in December in Grand Forks, ND, if they plan to attend MN Wheat's annual On-Farm Research Summit.

### Data Use

- According to MN Wheat's data use and privacy policy, trial data will be included anonymously in the annual On-Farm Research Report booklet, shared at MN Wheat's annual On-Farm Research Summit in December, and posted on-line on MN Wheat's On-Farm Research Network homepage at the link below.

### Compensation

Participants will be compensated according to the payment structure outlined in the Producer Agreement upon the successful implementation and harvest of each trial and submission of all necessary supporting field data. This trial is eligible to receive \$500 in compensation, plus \$250 for sharing a yield map. The Producer Agreement can be found at [www.mnwheat.org/farm-research-network/](http://www.mnwheat.org/farm-research-network/)