

Reduced Tillage Passes

Objective

Assess the impact of reducing fall tillage passes from two passes to one pass following wheat harvest on the following corn or soybean crops.

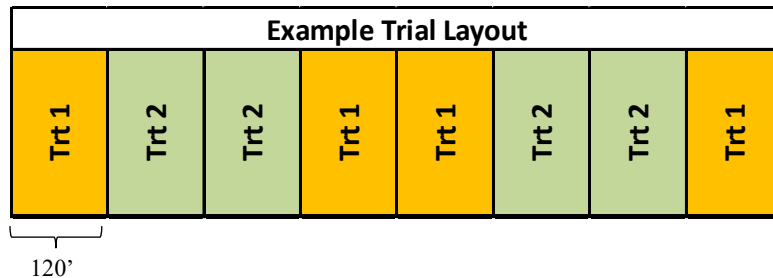
Treatments

Control Grower's standard tillage practices

Treatment Reduce tillage by one pass in the fall

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

Replications: Four replications of each treatment (8 plots total) is preferred. Three replications (6 plots total) may be acceptable if field size cannot accommodate 8 plots.



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 harvestOR
- Yield can be measured in the producer's grain cart with a calibrated scale
 - 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 if possible
- MN Wheat will collect the as-applied map and yield map following harvest, if available
 - Participants will be compensated up to \$500 for sharing field maps

Data MN Wheat will Collect

- Precipitation and other weather data
- Crop stand counts and vigor after emergence
- 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 copy of the annual On-Farm Research Report following the annual On-Farm Research Summit (paper copies can be mailed upon request).
- 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 compensation, plus \$250 each for an application and yield map if available. The Producer Agreement can be found at www.mnwheat.org/farm-research-network/