

On-Farm Research Protocol

Seeding Rate

Objective

Determine optimum seeding rates to maximize yield for current varieties.

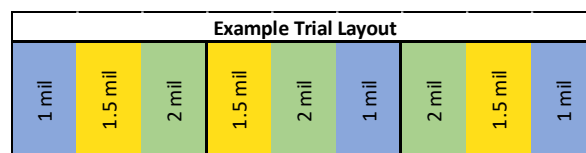
Field Selection

- Variety: Shelly or WB9590
- Plots typically run the full length of the field and must be wide enough to allow for at least one full combine pass through the plot that avoids sprayer tracks (usually 100-140 ft).

Seeding Rates

- Three seeding rate treatments will be replicated at least three times, for a total of nine harvested strips. Strips should be wide enough to harvest one combine pass while avoiding sprayer tracks (usually two planter passes) and typically run the full length of the field.

- Treatment 1 – 1 million plants/acre
- Treatment 2 – 1.5 million plants/acre
- Treatment 3 – 2 million plants/acre



- Germination percentage and seed weight of your seed lot must be known to calculate seeding rate
 - Example: Seed count of 15,000 seeds/lb x .95 for 95% germ = 14,250 viable seeds/lb
1,500,000 target stand / 14,250 = 105.3 lbs/acre seed
- Please notify the Research Coordinator before planting so they can be present to assist with trial flagging.

Harvest

- Yield will be measured using one of MN Wheat's weigh wagon to record yield and obtain a protein sample
 - MN Wheat Staff will be available with the weigh wagon to assist with harvest
- Combine passes should avoid sprayer tracks and drown-outs if possible
- MN Wheat will also need to collect the as-applied map and yield map following harvest

Data that Research Coordinator Will Collect

- Precipitation
- Stand counts at the 1-2 leaf stage
- Spike counts
- Lodging
- Yield, moisture, test weight, protein

Data Reporting

MN Wheat will email participants the preliminary results of all on-farm research trials after harvest. Data will also be included anonymously in the annual On-Farm Research Report booklet, be discussed at the annual On-Farm Research Summit in December and posted on-line on MN Wheat's On-Farm Research Network homepage at the link below.

Participants will be compensated according to the payment structure outlined in the Producer Agreement upon the successful implementation and harvest of each trial for any extra time and costs incurred while participating in this research. This trial is eligible to receive \$500-\$1,000 in compensation. The Producer Agreement can be found at

www.mnwheat.org/farm-research-network/

Call us anytime to discuss further: Thank you - Lauren, 218-556-3174; Melissa, 952-738-2000