

On-Farm Research Protocol

Flag Leaf Fungicide

Objective

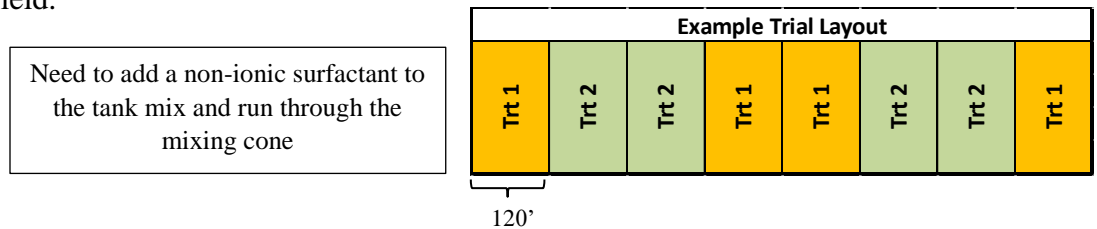
Determine if including a third fungicide application during flag leaf emergence will increase yield or protein.

Field Selection

- Variety: WB9590 or SY Valda
- Plots are usually 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.

Fungicide Application

- Two fungicide treatments will be replicated at least four times, for a total of eight harvested strips. Strips should be wide enough to harvest one combine pass while avoiding sprayer tracks and typically run the full length of the field.



- Timings:
 - 3-5 leaf
 - Flag leaf emergence (flag leaf is 50-80% emerged but has not yet collared)
 - Early flowering (50% of heads have begun flowering)
- Treatments
 - Treatment 1 - Control
 - 3-5 leaf – 2 oz/acre propiconazole (Tilt or generic equivalent)
 - Early flowering – 6.5 oz/acre prothioconazole + tebuconazole (Prosaro)
 - Treatment 2 – Flag leaf fungicide
 - 3-5 leaf – 2 oz/acre propiconazole (Tilt or generic equivalent) at 3-5 leaf stage;
 - Flag leaf emerging – 2 oz/acre fluxapyroxad + pyraclostrobin (Priaxor)
 - Early flowering – 6.5 oz/acre prothioconazole + tebuconazole (Prosaro)
- Please notify the Research Coordinator before flag-leaf application for assistance with trial flagging.

Harvest

- Harvest near the center of the plot to reduce edge-effect between treated and non-treated plots
- 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 down-outs if possible
- MN Wheat will also need to collect the as-applied map and yield map following harvest

Data the Research Coordinator Will Collect

- Precipitation
- Disease pressure
 - Before application
 - 15 and 30 days following flag leaf application
- Yield, moisture, test weight, protein
- In-season imagery

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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