

## 2018 On-Farm Research Summer Protocol

### **Intensive Fungicide Management**

#### Choosing the Right Field

- Preferably fields planted with Mayville or other variety susceptible to various diseases
- 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). Harvesting with a guidance system is also easier with wider plots.
  - If sprayer tracks cannot be avoided, then each strip should include sprayer tracks. The important thing is that all blocks are treated the same.

#### Data the Research Coordinator Will Collect

- Precipitation
- Disease pressure
- Yield, moisture, test weight, protein

#### Fungicide Application

- Fungicides 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
  - Control – 2 oz/ac Tilt at 3-5 leaf + 6.5 oz/ac Prosaro at early flowering
  - Intensive management – 2 oz/ac Tilt at 3-5 leaf + 2 oz/ac Priaxor at flag leaf emergence + 6.5 oz/ac Prosaro at early flowering
- Include at least four replications of the two treatments (8 plots total).
- Fungicides should be applied according to label rates and best management practices
  - Modes of action (MOA) should be rotated where possible to reduce selection for fungicide resistance. Including
  - Strobilurins should not be applied after heads begin to emerge due to the risk of increased DON in harvested grain
- Please notify the Research Coordinator before the application is made so that the plots can be flagged at the time of application.

#### Harvest

- MN Wheat will be present at harvest with one weigh wagon to measure plot yields. The combine will need to either unload into the weigh wagon or into a grain cart, and then into the weigh wagon. Grain will be sampled from the weigh wagon to test moisture, test weight, and protein.

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