

Ontario Seed Treatment Study (ONS17)
On-Farm Corn and Soybean Trials – 2017

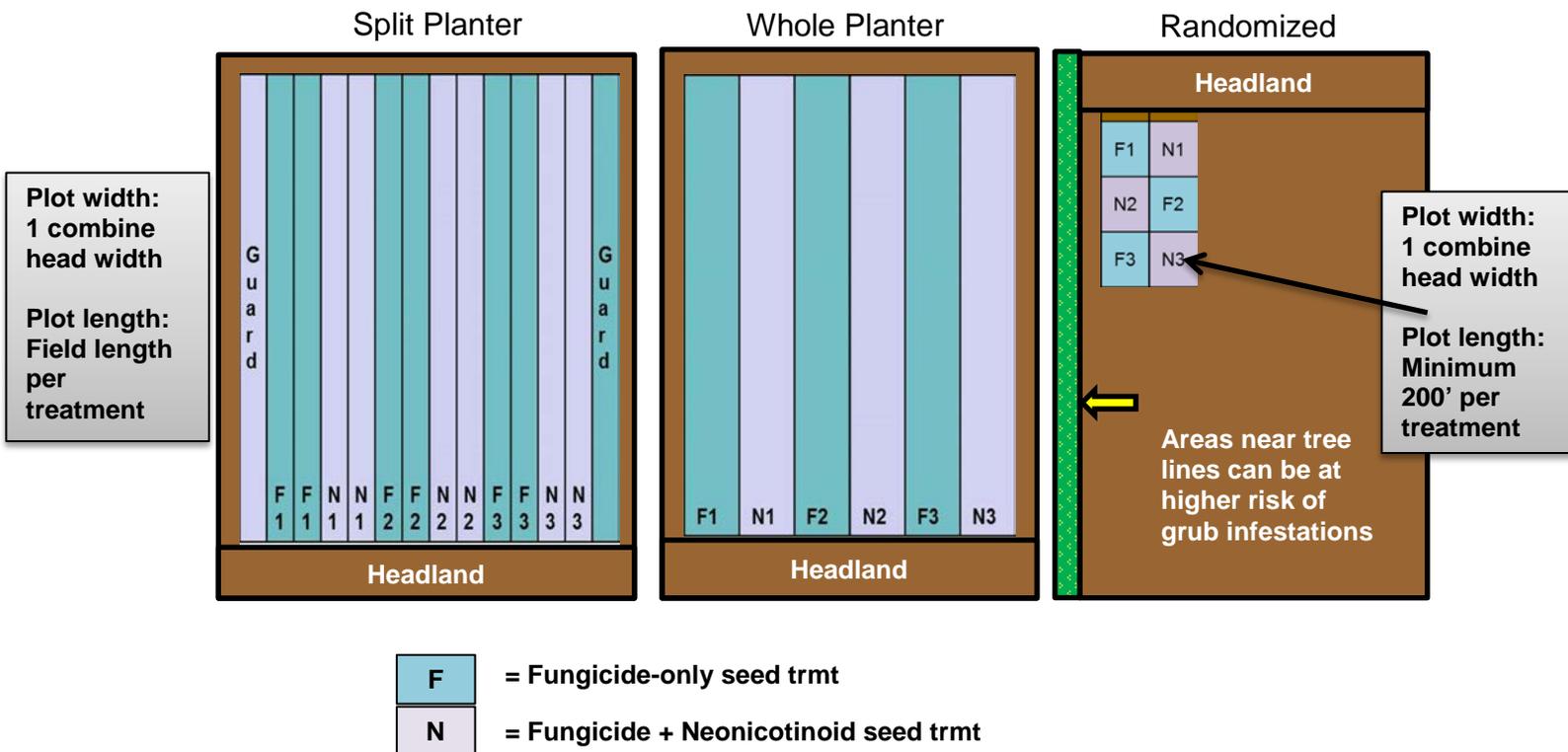
Objectives:

- To determine the key early season pests, develop risk maps, and measure the efficacy of neonicotinoid and diamide seed treatments in corn and soybeans in Ontario.

Option 1: Fungicide-only vs. Neonicotinoid (Corn or Soybeans)

- Each trial contains at least 6 **plots** (2 treatments of the same hybrid/variety replicated **3** times)
 - Treatment 1: Fungicide-only
 - Treatment 2: Fungicide + Neonicotinoid (e.g. Poncho or Cruiser)

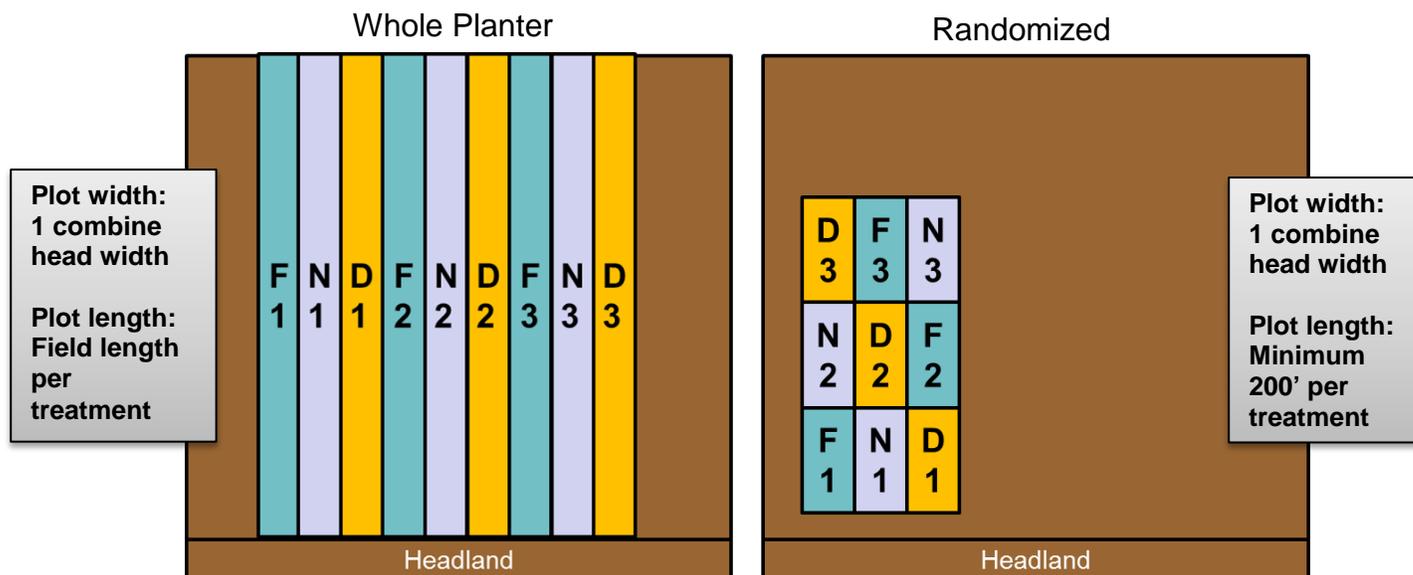
Example Planting Configurations with 2 treatments and 3 replications:



Option 2: Fungicide-only vs. Neonicotinoid vs. Diamide (Corn only)

- Each trial contains at least **9 plots** (3 treatments of the same hybrid/variety replicated **3 times**)
 - Treatment 1: Fungicide-only
 - Treatment 2: Fungicide + Neonicotinoid (e.g. Poncho or Cruiser)
 - Treatment 3: Fungicide + Diamide (e.g. Fortenza)

Example Planting Configurations with 3 treatments and 3 replications:



| | |
|---|--|
| F | = Fungicide-only seed trmt |
| N | = Fungicide + Neonicotinoid seed trmt (e.g. Poncho, Cruiser) |
| D | = Fungicide + Diamide seed trmt (e.g. Fortenza) |

For both options:

- Trial planted and harvested by OSCIA members. Planter type does not matter.
- Early season assessments done by UGRC – 2 early season field visits will be completed
 - Plant stand & vigour
 - Soil sample/Crop History/GPS
 - Pest presence/identification
 - Crop pest damage rating
- Yield data to be collected by OSCIA members (dry bu/ac)
 - Each **individual** plot weight measured using calibrated yield monitor or weigh wagon
 - Submit yield results to onneonicstudy@gmail.com within 2 weeks of harvest

UoG staff will carry the following checklist when making the first field visit to determine if the site is suitable to be included in the study:

- Directions, field map and accurate record of planting
- Plot corners clearly marked and plots of minimum size
- Fungicide only and insecticide treated seed of same corn hybrid or soybean variety
- All treatments planted on the same day with the same planter
- 3 replications, following a split-planter, whole planter, or randomized configuration
- Plots not planted in a headland
- Plot located in highest pest risk area of field if possible

**NOTE: Should any one of these items fail then the site will be excluded.
Top quality, accurate data are required and poor quality data will harm the objectives.**

To Participate In This Study:

- Identify an appropriate field location.
- Contact your local seed supplier as soon as possible to determine the availability of insecticide treated and fungicide only treated seed of the same corn hybrid/soybean variety for your maturity area.
- If insecticide treated and fungicide only treated seed of the same hybrid/variety is not available from your preferred supplier, check with other seed suppliers in your area.
- Contact Jocelyn Smith to register your field location: onneonicstudy@gmail.com

THANK YOU for your participation and attention to detail in this very important study.

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