

Nebraska On-Farm Research Network

Agnition Commence™ Protocol on Corn

Objective: To evaluate the effects of Agnition Commence™ Seed Treatment on corn. Information about Commence can be found on the Agnition website: <http://www.agnition.com/default.aspx>.

Study Design:

Experimental Design and Treatments

The treatments being tested are:

A: Check - non-commence treated seed

B: Commence Seed Treatment

Other seed treatments (fungicide/insecticide may be used but need to be applied to both the check and commence treatments. The untreated check should be planted first, then the Commence treatment. This will prevent contamination of the Commence product to the untreated strips. One hybrid will be planted across the study area.

Seed treatment for the trial area will be provided and treating of seed will be handled through the Nebraska On-Farm Research Network.

A *paired comparison* or *randomized complete block design* will be used. 5 to 7 replicates should be planted to ensure that a minimum of 5 replicates be harvested.

Paired Comparison Design:

Rep 1	Untreated	Yield:
	Commence	Yield:
Rep 2	Commence	Yield:
	Untreated	Yield:
Rep 3	Untreated	Yield:
	Commence	Yield:
Rep 4	Commence	Yield:
	Untreated	Yield:
Rep 5	Untreated	Yield:
	Commence	Yield:
Rep 6	Commence	Yield:
	Untreated	Yield:
Rep 7	Untreated	Yield:
	Commence	Yield:

It is important to note that each strip at right needs a **separate** harvest weight recorded. Therefore, the number of rows in each strip shown must be at least the width of the combine head so that at least one “pure” combine pass can be taken from each strip (not mixing yields from two adjacent treatments).

Even though there are 2 strips of “Commence” next to each other, a **separate** weight must be taken from each.

Randomized Complete Block Design:

Rep 1	Treatment B: Commence	Yield:
	Treatment A: Check - No Commence Treatment	Yield:
	Treatment B: Commence	Yield:
Rep 2	Treatment A: Check - No Commence Treatment	Yield:
	Treatment A: Check - No Commence Treatment	Yield:
	Treatment B: Commence	Yield:
Rep 3	Treatment A: Check - No Commence Treatment	Yield:
	Treatment B: Commence	Yield:
	Treatment B: Commence	Yield:
Rep 4	Treatment A: Check - No Commence Treatment	Yield:
	Treatment B: Commence	Yield:
	Treatment A: Check - No Commence Treatment	Yield:

Data to be collected

UNL extension personnel will work with the growers to collect all data below.

1. Commence seed treatment for the trial area will be provided. Seed treating will be accomplished through the on-farm research network.
2. Early season stand counts for each strip.
3. Yield for each strip via weigh wagon or yield monitor.
4. If using yield monitor, yield data must be collected using a **well calibrated** yield monitor. Grain moisture for each individual weight should also be recorded.
5. Site rainfall records will be obtained from interpolated radar estimates.
6. Other information including soil type as defined by USDA, previous tillage conditions, hybrid planted, tillage system, residue type, planting depth, and others will be required to be provided by the grower.

Grower Agrees to:

1. Complete background agronomic form providing important ancillary agronomic information to UNL Extension.
2. Accurately record locations of the strips by flagging or GPS.
3. Record yield and grain moisture data. Separate regions or loads should be used in the yield monitor to identify each strip of untreated and Commence treatments. Raw GPS yield data files or weigh wagon data must be provided to UNL Extension within 30 days of harvest or by Dec. 1.
4. Allow UNL Extension to use submitted and collected data for research, educational, and informational purposes.

Note: Grower will not be monetarily compensated nor charged for participation in this project. Commence product will be supplied to the grower by Agnition at no cost to the grower.

**For assistance with studies, please contact the Nebraska On-Farm Research Network
Laura Thompson: laura.thompson@unl.edu or 402-245-2224**