



NO-TILL VS. TILLAGE STUDY IN CORN AND SOYBEANS 2020

Objective: To compare no-till and tillage systems in corn and soybean production.

Participant Requirement:

- Participant may only register (1) field in this Field Study
- Share yield data with group leader – weigh wagon, calibrated yield monitor or grain weight as measured by truck scale
 - Customer data is anonymous (known by a number, not a name)

Field Application:

- Fields will need to be registered by INFA by April 1st
- The field used for this Field Study must be 40-60 acres
- Plant half the field with your normal tillage
- No-till plant the other half of the field

Data Collection:

- **Document fertilizer (including starter and P and K rates and timing) and planting date.** Other details like previous fertilizer applications for preceding crop would help to understand the results. Please mimic the application data collected in the webtool and indicate what is being done for the trial. Provide a map with location of tilled and no-tilled area.
- **Comprehensive chemical soil test.** Group leaders will arrange for an 0-8" sample will be taken at soil health assessment timing (see below) to capture soil pH, nitrate-N, organic matter, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, zinc, and boron.
- **Soil health assessment** – Group leaders will collect soil for soil health assessments in both treatment areas. The soil health assessment will include the following set of indicators; soil organic carbon (ppm), aggregate stability (%), bioavailable nitrogen (mg/g dry weight), respiration (mg CO₂/g dry weight) and active carbon (ppm).

Final Report:

Each field will have a field report generated from the lab work and yield data.