

**Iowa Soybean Association On-Farm Network®**  
**VOTiVO on Soybeans Replicated Strip Trial Protocol**

**Objective:**

The purpose of this project is to quantify the differences in the agronomic and economic impacts of a new seed treatment on soybeans that is designed to disrupt the feeding cycle of nematodes (VOTiVO) in alternating strips across the field.

**Brief Summary:**

Growers with yield monitors equipped with GPS will compare alternating strips with and without VOTiVO across the entire field. A field with straight rows is preferred having variability of soil type, topography, etc. An example of this trial is shown on the right. The width of a strip must be at least as wide as the combine pass and preferably wider. A split planter configuration can be used or using high accuracy GPS to plant every other pass with one treatment and then filling in the skipped passes with the second treatment. Harvesting must ensure at least one “pure” combine pass from each treatment (not mixing yields from two different treatments). Mixed passes are acceptable when the planting width is wider than individual combine passes, but the grower must be able to harvest at least one pure pass from each treatment. Loads or regions should be used in the yield monitor to identify each soybean treatment separately and any mixed passes.

|              |                                      |
|--------------|--------------------------------------|
| <b>Rep 1</b> | <b>VOTiVO Soybean Seed Treatment</b> |
|              | <b>Untreated</b>                     |
| <b>Rep 2</b> | <b>VOTiVO Soybean Seed Treatment</b> |
|              | <b>Untreated</b>                     |
| <b>Rep 3</b> | <b>VOTiVO Soybean Seed Treatment</b> |
|              | <b>Untreated</b>                     |
| <b>Rep 4</b> | <b>VOTiVO Soybean Seed Treatment</b> |
|              | <b>Untreated</b>                     |

**Grower Requirements:**

1. Contact Matt Sweeney at ISA (515-669-9157) to check on availability of VOTiVO product for conducting a replicated strip trial.
2. Growers must purchase untreated seed unless it has Bayer CropScience’s Trilex 2000 on it.
3. Complete and submit a replicated strip trial registration form by March 12, 2010 along with a field boundary in shapefile format (.shp, .dbf, & .shx) or FSA map with the field clearly outlined.
4. Plant alternating strips the length of the field with and without VOTiVO seed treatment, replicated across the entire field. The length of the replicated strips should be a minimum of 1,320 feet. Areas containing waterways and or point rows should be avoided. All other factors in the trial area must be managed the same (planting date, variety, etc).
5. Accurately record the location of the two soybean treatments using GPS mapping equipment.
6. Complete and submit an application log form and as-applied map within 30 days of application in the following format: raw files from the memory card or exported shapefile (.shp, .dbf, & .shx).
7. Trial must be harvested with a calibrated yield monitor equipped with GPS. If possible, harvest the entire trial area on the same day. GPS yield data must be submitted within 30 days of harvest or no later than December 1, 2010 in the following format: raw files from the memory card or exported shapefile (.shp, .dbf, & .shx).
8. Allow ISA to use submitted and collected data for research, educational, and informational purposes.

**ISA Agrees to:**

1. Attempt to collect aerial images from each field and provide them to the grower at no cost.
2. Return a report analyzing the treatment differences.
3. Keep data in a confidential manner that can’t be linked back to the individual producer by other parties.

