

**Iowa Soybean Association On-Farm Network®
Avail Replicated Strip Trial Protocol**

Objective:

The purpose of this project is to quantify the agronomic and economic impacts of adding Avail to a Fall P application program.

Brief summary:

Growers who have combines equipped with yield monitors and GPS will compare fields with replicated strips containing a traditional Fall P application program with replicated strips that have Avail added to the grower’s traditional practice at the 0.25 gal per ton of solid P fertilizer. An example of a comparison of traditional Fall P

Rep 1	Traditional P Application
	Traditional P Application with Avail
Rep 2	Traditional P Application
	Traditional P Application with Avail
Rep 3	Traditional P Application
	Traditional P Application with Avail
Rep 4	Traditional P Application
	Traditional P Application with Avail

applications with the same P rate plus Avail is shown above. Strips must be at least as wide as one combine pass and preferably wider. Harvesting must ensure at least one “pure” combine pass (not mixing yields from two strips) within each treated and untreated strip. Mixed passes are acceptable when the application width is wider than individual combine passes, but the grower must be able to harvest at least one pure pass from each treated and untreated strip. Separate loads or regions should be used in the yield monitor to identify the two unique replicated strips that are being evaluated.

Grower Requirements:

1. Contact Matt Sweeney at ISA (515-669-9157) to confirm intent to conduct an Avail trial.
2. Apply at least four alternating strips of traditional Fall P application (check) against the same P rate plus Avail. 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, hybrid, etc).
3. Trial must be harvested with a calibrated yield monitor equipped with GPS. If possible harvest the entire trial area on the same day. Raw GPS yield data from the memory card must be submitted within 30 days of harvest or no later than December 1, 2010.
4. Participants must agree to 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.

