

Horticulture

Research Protocols

Pepper Variety Trial

Objectives: 1. Determine which pepper variety, Olympus or Revolution, produces more marketable fruits and total yield in side-by-side field trials in Iowa.

Farmer-cooperators, Mark Quee, Alice McGary, Rick Hartmann, Tim Landgraf, Jordan Scheibel & Suzan Jutz will:

- Take photos throughout the project and send to PFI for use in research report and blog.
- Keep in contact with PFI with updates and questions.
- **Spring 2015**, start pepper seedlings and transplant to field when appropriate.
- Establish a minimum of 4 replications (pairs) at the time of transplanting as shown in the diagram below with randomized and replicated plots of both varieties (Olympus and Revolution).
- **Summer 2015**, make note of all management practices throughout the growing season.
- Harvest peppers from each plot separately: record total number of peppers harvested per plot, number of red peppers harvested per plot, number of culls per plot and total weight of all peppers harvested per plot.
- Turn in all data by October 2015.

Pair 1	Pair 2	Pair 3	Pair 4
Olympus	Revolution	Revolution	Olympus
Revolution	Olympus	Olympus	Revolution

Practical Farmers of Iowa will:

- Help set up research protocol.
- Order and provide seeds of both pepper varieties.
- Monitor progress of project and provide support when needed.
- Publish results in a PFI research report, on PFI website, and potentially other outlets.
- Provide \$550 cooperator payment at conclusion of project year.