**Objective:** Determine the agronomic and economic effect of a plant growth regulator on cereal rye seed production.

**Farmer-cooperator will:**
- Take photos throughout the project.
- Keep in contact with PFI with updates and questions.
- **Fall 2015,** plant winter cereal rye seed crop.
- **Spring 2016,** establish a minimum of 4 replications as shown in the diagram below with randomized and replicated strips of:
  - Cereal rye with plant growth regulator (PGR)
  - Cereal rye without plant growth regulator (No PGR)
- Strips will be as wide as at least one combine pass and run the length of the field.
- **Summer 2016,** collect aboveground biomass samples of rye from strips ~one week prior to seed harvest.
- Measure cereal rye plant height and stem thickness at harvest.
- Harvest cereal rye seed from strips separately.
- Turn in data to Practical Farmers of Iowa at the end of the project.

![Diagram of plant growth regulator trial](image)

**Practical Farmers of Iowa will:**
- Help set up monitoring protocol, 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 compensation at conclusion of the project in 2016.

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The terms of this Research Protocols document are subject to the terms of the individual Research Cooperator’s Memorandum of Understanding agreement with PFI. To the extent these terms may differ or conflict, the Memorandum of Understanding shall control.