

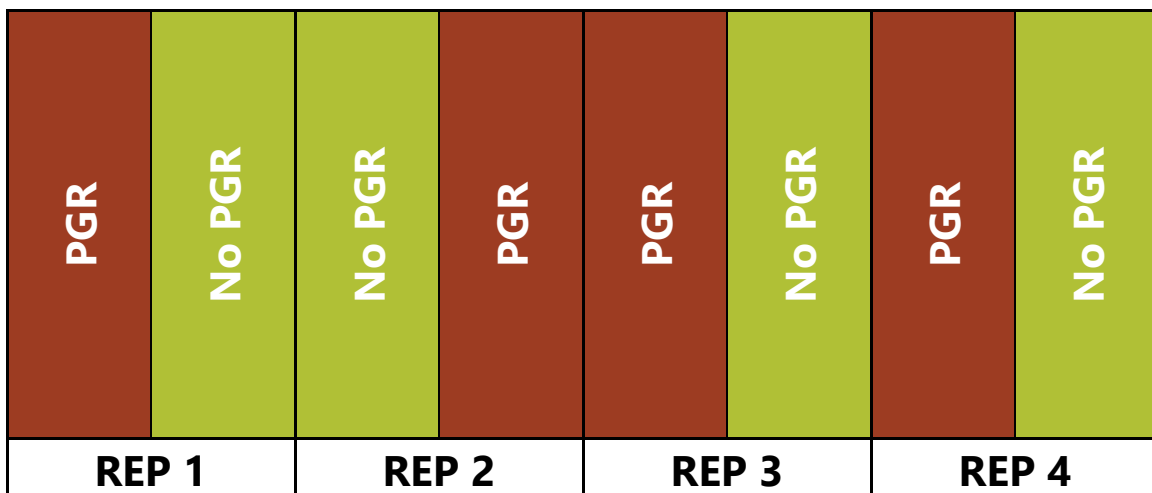
Field Crops Research Protocols

Plant Growth Regulator Trial for Cereal Rye Seed Production

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.



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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