Objective: Determine which cabbage variety: Capture, Caraflex, Farao or Primo Vantage, produces the highest yield and quality summer cabbage in Iowa.

Hypothesis: ?

Farmer-Cooperator will:
- Follow Research Protocols for study
- Take photos throughout the project
- Keep in contact with PFI with updates and questions
- Turn in all data by November 2019

Practical Farmers of Iowa will:
- Help set up research 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 cooperator payment at conclusion of project year.

Project Design:
- 2 successions (July-August harvest)
- Each farm will set up a randomized, replicated trial with two successions. Each succession will have at least 4 replications.
- 4 varieties x 4 replications = 16 plots (per succession)
  - Capture, Caraflex Farao and Primo Vantage
  - At least 10 plants/plot

Example layout:

<table>
<thead>
<tr>
<th>Rep1</th>
<th>Rep2</th>
<th>Rep3</th>
<th>Rep4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capture</td>
<td>Caraflex</td>
<td>Primo Van</td>
<td>Farao</td>
</tr>
<tr>
<td>Farao</td>
<td>Capture</td>
<td>Caraflex</td>
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<td>Primo Van</td>
<td>Farao</td>
<td>Capture</td>
<td>Caraflex</td>
</tr>
<tr>
<td>Caraflex</td>
<td>Primo Van</td>
<td>Farao</td>
<td>Capture</td>
</tr>
</tbody>
</table>

Data to Collect (see excel workbook):
- At harvest, Score plot for splitting, black rot, cabbage worms.
- Harvest cauliflower as mature, keep records by plot and harvest date. Record weight and count harvested by plot.
- Take photos of harvested heads (each variety), and the plants in the field.
- See excel workbook for pick sheets, scoring, and data entry.
**Project Timeline:**

|-------|--------------|-------------|
| • Edit/Approve Protocol  
• Send Liz seeds needed  
• Complete MOU & pre-survey  
• Liz will order seed | • April: start seed  
• Layout plots  
• Update other cooperators and PFI with progress of trial  
• Conduct trial and collect data! Take photos! | • Turn in data and photos  
• Take post-survey |

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