



RESEARCH PROTOCOLS

Cauliflower Variety Trial

Objective: Determine which cauliflower variety: Snow Crown, Amazing, or Denali produces the highest yield and quality fall cauliflower in Iowa. Skywalker can be trialed as an optional variety.

Hypothesis: Some farmers expect Snow Crown to produce the most curds, and best quality curds.

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:

- Each farm will set up a randomized, replicated trial with 1-2 successions. Each succession will have 4 replications.
- 3 or 4 varieties x 4 replications (per succession)
 - Snow Crown, Amazing, Denali, (Skywalker, optional)
 - At least 10 plants/plot

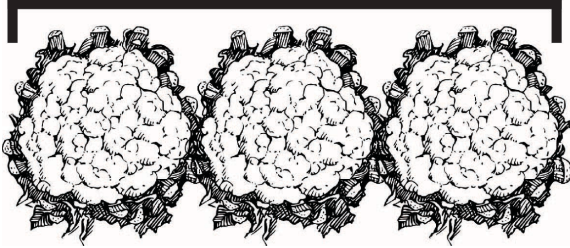
Example layout:

Rep1	Rep2	Rep3	Rep4
Snow Crown	Amazing	Denali	Snow Crown
Amazing	Denali	Snow Crown	Amazing
Denali	Snow Crown	Amazing	Denali

Data to Collect (see excel workbook):

- At harvest, Score plot for color, riciness/fuzziness, curd compactness, and curd bracts.
- Harvest cauliflower as mature, keep records by plot and harvest date. Record weight, diameter of three curds, and count harvested by plot.
- Take photos of harvested curds (each variety), and the plants in the field.
- See excel workbook for pick sheets, scoring, and data entry.
- More info on cauliflower grading: Cole Crop Disorders:
<https://agdev.anr.udel.edu/weeklilycropupdate/?p=2502>

diameter of 3 curds



Project Timeline:

March	April - Oct.	November
<ul style="list-style-type: none">• Edit/Approve Protocol• Complete MOU & pre-survey• Liz will order seed	<ul style="list-style-type: none">• Layout plots• Update other cooperators and PFI with progress of trial• Conduct trial and collect data! Take photos!	<ul style="list-style-type: none">• Turn in data and photos• Take post-survey

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