



Summer Lettuce Variety Trial, 2018

Objectives:

1. Determine which lettuce variety: Concept, Magenta, Cherokee, and Nevada (Faux will run Magenta, Muir, Bronze Arrowhead and Concept or Nevada), performs best as a summer lettuce in Iowa. (For this study, a summer lettuce is harvested during **July and early September**).

Farmer-cooperator will:

- Follow Research Protocols for study
- <u>Take photos</u> throughout the project.
- Keep in contact with PFI with updates and questions
- Turn in all data by November 2018

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.

Crops:

Varieties: Concept, Magenta, Cherokee, and Nevada (Faux will run Magenta, Muir, Bronze Arrowhead and Concept or Nevada). Two (or more) successions of lettuce planting is preferred, **target of first harvest is July 1.**

Transplanting and In-field practices:

Each farmer can decide their own in field practices, but should record what was done and when. Practices should be consistent for both varieties and all plots.

Field Layout:

- treatment plot lengths can be 10-20 plants depending on farm needs.
- Four replications of each variety is preferred, three is ok.

- Two successions of lettuce is preferred; a single planting is ok (still need three or four reps in each succession).

- Please provide PFI with planting info as requested in the datasheet.

Example Plot Layout (for 4 varieties)

Rep1	Rep2	Rep3	Rep4	
Concept	Nevada	Cherokee	Magenta	
Magenta	Concept	Nevada	Cherokee	
Cherokee	Magenta	Concept	Nevada	
Nevada	Cherokee	Magenta	Concept	

Example Plot Layout (for 3 varieties)

Rep1	Rep2	Rep3	Rep4
Cherokee	Magenta	Cherokee	Concept
Magenta	Concept	Concept	Cherokee
Concept	Cherokee	Magenta	Magenta

Harvest and Data Collection:

- **Score plot** for indications of: **bolting, tip burn, bottom rot, flavor** (spit test – if you spit it out, it isn't acceptable)

- Harvest lettuce as mature. Record weight and count harvested by plot. If marked as cull after

harvest, note as "wash cull"; and do not include wash culls in marketable count or weight.

- Take photos of varietal groups, and the plants in the field.

- See **excel workbook** for pick sheets, scoring, and irrigation info and data entry.

Data Analysis

Data analysis will be done at PFI by Liz Kolbe and presented in a Research Report at the Cooperators' Meeting.

General growing Info				
varieties used:				
# plants / plot:				
w/in row spacing:				
row spacing:				
plot ft2:				
bed configuration notes:				
irrigation (Y/N and type):				
mulch (Y/N and type):				

	Seeding date	Transplanting date
Succession 1		
Succession 2		
Succession 3		
Succession 4		

Harvest Data			choose: "acceptable" or "unacceptable" (A/U)						
					Plot Head				
				Plot	Count (if				
				Weight	harvested				flavor (spit
Harvest Date	Succession	Plot	Variety	(lb)	as heads)	bolting	tip burn	bottom rot	test)