



# What Grows Well Where?

Using the mobile app, Grow&Tell and Vegetable Variety Trials to answer this question

**Heidi Rader**, Tribes Extension Educator and Horticulture Faculty with UAF CES and Tanana Chiefs Conference

&

**Glenna Gannon**, Vegetable Variety Trials Research Coordinator, AFES

On your Phone or Computer Go to the Socrates App or Website:  
Type in Room: UPYRQ6D



Thank you for participating in this poll, it is voluntary. This information will help understand who is in the audience today and help us learn more about what agriculture research in Alaska is important. Your statements may be anonymized and shared publicly. Your individual responses to multiple choice questions will be kept private. If you have any questions about this poll, please email Heidi Rader at [hbrader@alaska.edu](mailto:hbrader@alaska.edu)

## On your Phone or Computer

Go to the



App

Type in Room: **UPYRQ6D**

# Variety Trials at the Georgeson Botanical Garden



Heidi Rader, Extension Horticulture Faculty



Napoli – crisp, sweet,  
some braiding

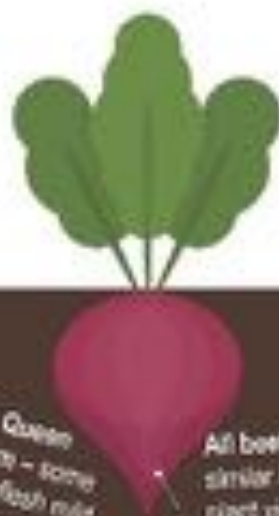
Scarlet Nantes –  
very crisp, grow well



Tokyo Cross –  
beautiful, uniform  
taper



Scarlet Queen  
Red Stem – some  
cracking, flesh mild  
and crisp



All beets were  
similar in uniformity,  
plant vigor and  
productivity



Alpine – grew  
very large

Summer Cross No. 3 –  
grew very long



*Trials help gardeners and farmers*



*Available Now!*

# Grow & Tell



**Whether you're an expert gardener or new gardener, this app is for you!**

**Use the app to:**

- share which vegetables grew well, which didn't grow so well and which varieties tasted best
- see what other gardeners near you are growing
- download your own personal gardening journal

*For more information, contact*

**Heidi Rader at [grow.andtell@alaska.edu](mailto:grow.andtell@alaska.edu)**



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*Go to*

**[growandtell.us](http://growandtell.us)**

*for more information.*

# Why conduct Variety Trials?

Projected hardiness zone changes for Alaska based on research from UAF SNAP

## Alaska Hardiness Maps

Historical: 1980-2009

Average Annual Extreme Minimum Temperature

Temp (C)	20140	Temp (F)
-51.1 to -49.1	1A	-50 to -50
-49.1 to -47.1	1B	-49 to -49
-47.1 to -45.1	2A	-48 to -48
-45.1 to -43.1	2B	-47 to -47
-43.1 to -41.1	3A	-46 to -46
-41.1 to -39.1	3B	-45 to -45
-39.1 to -37.1	4A	-44 to -44
-37.1 to -35.1	4B	-43 to -43
-35.1 to -33.1	5A	-42 to -42
-33.1 to -31.1	5B	-41 to -41
-31.1 to -29.1	6A	-40 to -40
-29.1 to -27.1	6B	-39 to -39
-27.1 to -25.1	7A	-38 to -38
-25.1 to -23.1	7B	-37 to -37
-23.1 to -21.1	8A	-36 to -36
-21.1 to -19.1	8B	-35 to -35
-19.1 to -17.1	9A	-34 to -34
-17.1 to -15.1	9B	-33 to -33
-15.1 to -13.1	10A	-32 to -32
-13.1 to -11.1	10B	-31 to -31
-11.1 to -9.1	11A	-30 to -30
-9.1 to -7.1	11B	-29 to -29
-7.1 to -5.1	12	-28 to -28



2010-2039

Average Annual Extreme Minimum Temperature

Temp (C)	20140	Temp (F)
-49.1 to -47.1	1B	-49 to -49
-47.1 to -45.1	2A	-48 to -48
-45.1 to -43.1	2B	-47 to -47
-43.1 to -41.1	3A	-46 to -46
-41.1 to -39.1	3B	-45 to -45
-39.1 to -37.1	4A	-44 to -44
-37.1 to -35.1	4B	-43 to -43
-35.1 to -33.1	5A	-42 to -42
-33.1 to -31.1	5B	-41 to -41
-31.1 to -29.1	6A	-40 to -40
-29.1 to -27.1	6B	-39 to -39
-27.1 to -25.1	7A	-38 to -38
-25.1 to -23.1	7B	-37 to -37
-23.1 to -21.1	8A	-36 to -36
-21.1 to -19.1	8B	-35 to -35
-19.1 to -17.1	9A	-34 to -34
-17.1 to -15.1	9B	-33 to -33
-15.1 to -13.1	10A	-32 to -32
-13.1 to -11.1	10B	-31 to -31
-11.1 to -9.1	11A	-30 to -30
-9.1 to -7.1	11B	-29 to -29
-7.1 to -5.1	12	-28 to -28



2040-2069

Average Annual Extreme Minimum Temperature

Temp (C)	20140	Temp (F)
-47.1 to -45.1	2A	-48 to -48
-45.1 to -43.1	2B	-47 to -47
-43.1 to -41.1	3A	-46 to -46
-41.1 to -39.1	3B	-45 to -45
-39.1 to -37.1	4A	-44 to -44
-37.1 to -35.1	4B	-43 to -43
-35.1 to -33.1	5A	-42 to -42
-33.1 to -31.1	5B	-41 to -41
-31.1 to -29.1	6A	-40 to -40
-29.1 to -27.1	6B	-39 to -39
-27.1 to -25.1	7A	-38 to -38
-25.1 to -23.1	7B	-37 to -37
-23.1 to -21.1	8A	-36 to -36
-21.1 to -19.1	8B	-35 to -35
-19.1 to -17.1	9A	-34 to -34
-17.1 to -15.1	9B	-33 to -33
-15.1 to -13.1	10A	-32 to -32
-13.1 to -11.1	10B	-31 to -31
-11.1 to -9.1	11A	-30 to -30
-9.1 to -7.1	11B	-29 to -29
-7.1 to -5.1	12	-28 to -28



2070-2099

Average Annual Extreme Minimum Temperature

Temp (C)	20140	Temp (F)
-45.1 to -43.1	3A	-44 to -44
-43.1 to -41.1	3B	-43 to -43
-41.1 to -39.1	4A	-42 to -42
-39.1 to -37.1	4B	-41 to -41
-37.1 to -35.1	5A	-40 to -40
-35.1 to -33.1	5B	-39 to -39
-33.1 to -31.1	6A	-38 to -38
-31.1 to -29.1	6B	-37 to -37
-29.1 to -27.1	7A	-36 to -36
-27.1 to -25.1	7B	-35 to -35
-25.1 to -23.1	8A	-34 to -34
-23.1 to -21.1	8B	-33 to -33
-21.1 to -19.1	9A	-32 to -32
-19.1 to -17.1	9B	-31 to -31
-17.1 to -15.1	10A	-30 to -30
-15.1 to -13.1	10B	-29 to -29
-13.1 to -11.1	11A	-28 to -28
-11.1 to -9.1	11B	-27 to -27
-9.1 to -7.1	12	-26 to -26



For more information, visit: <https://www.snap.uaf.edu/tools/gardenhelper>



Wednesday, July 26, 2017

## Variety trials return to the Georgeson



Glenna Gannon and Heidi Rader kneel by the research plots.

After an eight-year hiatus, limited vegetable variety trials resumed this summer at the Georgeson Botanical Garden in Fairbanks.

# How do we decide what to trial?

1	Beans	19	Peas
2	Broccoli	20	Leeks
3	Beets	21	Kohlrabi
4	Carrots	22	Summer Squash
5	Brussels Sprouts	23	Melons
6	Cauliflower	24	Winter Squash
7	Cabbage	25	Pumpkins
8	Garlic	26	Parsley
9	Celery	27	Parsnips
10	Corn	28	Potatoes
12	Onions	29	Spinach
13	Eggplant	30	Radishes
14	Kale	31	Rutabagas
15	Horseradish	32	Turnips
16	Gourds	33	Other
17	Peppers		
18	Lettuce		

38 people completed the survey, ranking which vegetables they thought should be tested

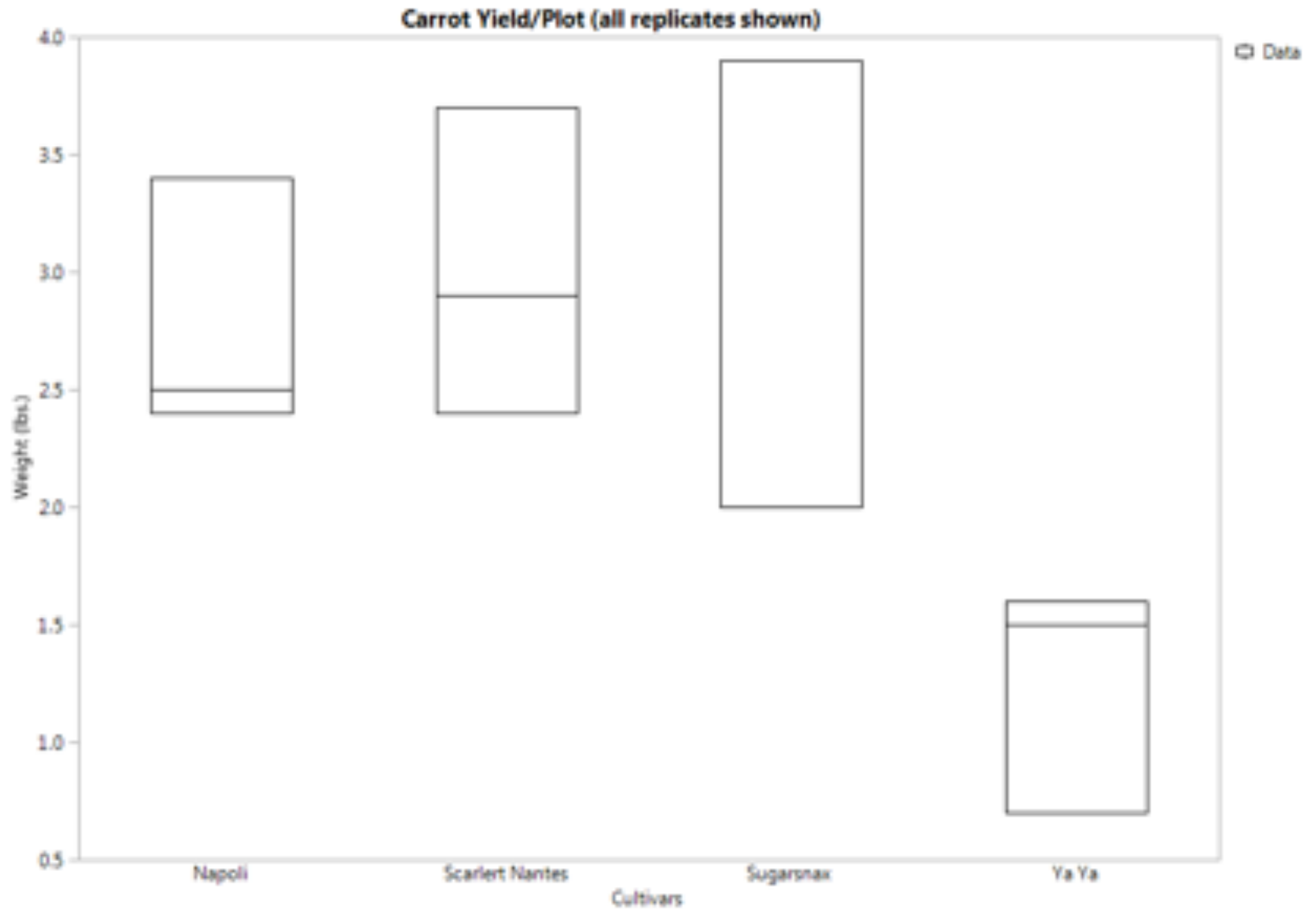
2017 Trials	2018 Trials	2019 Trials
<b>Replicated Trials</b>	<b>Replicated Trials</b>	<b>Replicated Trials</b>
- Beets	- Beets	- Beets
- Carrots	- Carrots	- Carrots
- Daikon Radish	- Celery	- Celery
- Turnips		- Beans
		- Corn
		- Celery
<b>Unreplicated Trials</b>	<b>Unreplicated Trials</b>	<b>Unreplicated Trials</b>
	- Beans	- Brussels Sprouts
	- Corn	
	- Brussels Sprouts	
	- Watermelon	



# 2017 Trials

Vegetable	Cultivar	Source	Spacing			Date Seeded	Harvest Period	1=Very Poor 5=Excellent			Yield/plot	Yield (lbs./ft <sup>2</sup> )	Comments
			Within Row	Between Rows	Plot Length			Uniformity	Plant vigor	Susceptibility to Pest & Disease			
Beet													
	Boro	Territorial	3"	12"	48"	6/16	7/31-8/22	4.4	4.1	4.3	4.0	1.0	All beets were similar in uniformity
	Detroit Dark Red	Burpee	3"	12"	48"	6/16	7/31-9/20	4.2	4.2	4.2	4.1	1.0	All beets were similar in uniformity
	Merlin	Johnny's	3"	12"	48"	6/16	7/31-9/8	4.6	4.4	4.7	4.9	1.2	All beets were similar in uniformity
	Red Ace F1	Johnny's	3"	12"	48"	6/16	7/31-9/20	4.5	4.3	4.4	5.5	1.4	All beets were similar in uniformity
Carrot													
	Napoli	Johnny's	1"	12"	24"	6/16	8/15-9/20	3.6	4.5	5.0	2.8	1.4	Crisp, sweet, some braiding
	Scarlet Nantes	Burpee	1"	12"	24"	6/16	8/15-9/20	3.9	4.6	5.0	3.0	1.5	Very Crisp. Grew well
	Sugarsnax 54	Johnny's	1"	12"	24"	6/16	8/15-9/20	3.8	4.4	5.0	2.6	1.3	Hard to harvest without break
Worst Pick	Yaya	Johnny's	1"	12"	24"	6/16	8/15-9/20	4.0	4.4	5.0	1.3	0.7	Poor germination rate and yield
Daikon Radish													
	Alpine	Johnny's	5"	18"	90"	6/16	7/18-8/15	4.2	4.4	4.6	9.8	1.3	Grew very large
	Miyashige	Johnny's	5"	18"	90"	6/16	7/18-8/15	3.8	4.3	4.6	7.7	1.0	Highly susceptible to bolting
	Summer Cross No. 3	Johnny's	5"	18"	90"	6/16	7/18-8/15	3.8	4.2	4.6	10.7	1.4	Grew very long
Worst Pick	White Icicle Short Top	Johnny's	5"	18"	90"	6/16	7/18-7/31	2.1	3.2	1.6	1.5	0.2	Susceptible to rotting and cracking
Turnip													
	Golden Ball	Territorial	4"	18"	48"	6/16	7/18-9/8	2.9	4.9	3.9	2.9	0.7	Grew lots of foliage, took a long time to mature
	Purple Top White Globe	Territorial	4"	18"	48"	6/16	7/18-8/15	3.2	4.2	3.2	3.2	0.8	Susceptible to splitting. Root mottled
	Scarlet Queen Red Stem	Johnny's	4"	18"	48"	6/16	7/18-8/15	3.7	4.2	4.4	3.7	0.9	Some cracking, flesh mild and watery
Top Pick	Tokyo Cross	Territorial	4"	18"	48"	6/16	7/18-8/15	4.6	4.6	4.9	4.6	1.2	Beautiful, uniform turnips. Very

# Carrots







# 2018 Beets

Cultivar	Source				1=Poor 9=Excellent					Quality: 1=Poor 5=Excellent		Notes
		Yield (lbs.)/Plot	Yield (lbs.)/ row foot	Avg. Unit weight (oz.)	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	
Zeppo (F1)	Johnny's	8.5*	2.1	5.4	9	9*	9*	9	9	4	4	Large round beets.
Boro (F1)	Johnny's	8.0*	2.0	5.3	9	9*	8*	9	9	4	4	Round and symmetrical.
Subeto (F1)	Territorial	7.8*	2.0	5.1	8	9*	9*	9	9	4	4	Round, symmetrical.
Pablo (F1)	Territorial	7.3*	1.8	4.6	9	9*	8*	8	9	3	4	Large round beets.
Red Ace (F1)	Johnny's	7.3*	1.8	4.5	8	9*	8*	9	9	3	3	Small beets.
Detroit Dark Red	High Mowing	7.2*	1.8	4.5	7	6	6*	9	9	5	4	Tendency to bolt and crack.
Robin (F1)	Territorial	6.3*	1.6	4.8	7	9*	8*	9	9	4	4	Varied in size.
Merlin (F1)	Territorial	5.2*	1.3	3.2	7	9*	8*	9	8	4	4	
Falcon (F1)	Territorial	3.9	1.0	2.6	5	1	7*	9	6	3	3	Tendency to bolt.
Early Blood Turnip	Urban Garden	3.5	0.9	2.7	5	2	5	9	9	4	4	Tendency to bolt and crack.
Lutz Green Leaf	Territorial	2.5	0.6	2.1	5	4	4	9	8	3	4	Tendency to bolt.



# 2018 Carrots

					Quality: 1= Poor 9=Excellent					Quality: 1= Poor 5=Excellent		
Cultivar	Source	Yield (lbs.)/Plot	Yield (lbs.)/ row foot	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	Comments
Napoli (F1)	Johnny's	3.9	2.0	2.1	9	9	9	9	9	3	4	Branched.
Nantes half long	Burpee's	2.8	1.4	1.9	8	9	8	9	9	3	4	Uniform
Eskimo (F1)	Territorial	2.4	1.2	2.2	9	9	8	9	9	3	3	Uniform, "ideal" carrot look.
Yaya (F1)	Johnny's	2.4	1.2	2.1	8	9	8	9	9	3	4	Susceptible to breaking when harvested.
Napa (F1)	Territorial	2.2	1.1	2.6	8	9	6	9	9	4	4	Branched. Missing data.
Bolero	Johnny's	2.1	1.1	2.2	9	9	7	9	9	3	3	Branched.
Scarlet Nantes	Burpee's	2.0	1.0	3.5	8	9	8	9	9	4	4	Tendency to split.
Touchon	Burpee's	1.9	1.0	1.8	7	9	7	9	9	5	4	Branched, stubby, or split.
Romance (F1)	Johnny's	1.7	0.9	1.9	8	9	6	9	9	3	4	Missing data.
Nelson (F1)	West Coast	1.6	0.8	2.1	8	9	8	9	9	4	5	Uniform.
Hercules (F1)	Johnny's	1.5	0.8	2.7	9	9	7	9	9	3	3	Missing data. Some branched, some large, thick carrots.
Nectar (F1)	Johnny's	1.2	0.6	2.2	8	9	6	9	9	3	4	Missing data.
Sugarsnax 54 (F1)	Johnny's	0.8	0.4	2.0	7	9	6	9	9	4	5	Missing data. Long, narrow taproot, susceptible to breaking.

No significant differences \*p < .05



# 2018 Celery

		y: 1= Poor 5=Exce										
Cultivar	Source	Yield (lbs.)/Plot	Yield (lbs.)/ row foot	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	Comments
Tango OG*	Johnny's	28.8*	4.9	3.0	9*	9*	9	8	9	4	4	Data missing for one plot.
Tall Utah 52-70 Improved	Burpee	25.7*	4.3	2.7	9*	9*	8	8	8	3	4	Large, uniform head, thick ribs.
Nero (F1)	Stokes	25.6*	4.3	2.6	9*	9*	8	8	8	4	4	Uniform, thick head.
Merengo (F1)	High Mowing	25.3*	4.2	2.5	9*	9*	8	8	8	4	4	Uniform, thick head.
Conquistador	Johnny's	22.7*	3.8	2.3	8*	9*	8	7	8	3	4	
Redventure	Territorial	9.8	1.6	2.1	8	8	4	7	6	2	2	Poor quality, small side shoots, hollow centers, bitter taste.
*p < .05												







# 2018 Beans

				Poor 9=Excell ent			1= Poor 5=Excell ent				
Cultivar	Source	Yield/plot (lbs.)	Yield (lbs.)/row foot	Uniformity	Plant vigor	Pest Resistance	Disease	Bolting Sensitivity	Taste	Texture	Comments
Provider	Johnny's	5.5	1.4	8	8	9	7	9	4	4	Reliable producer.
Rocdor	Johnny's	4.7	1.2	9	9	9	9	9	3	3	
Bountiful	Territorial	4.4	1.1	9	8	9	7	9	3	3	Very susceptible to <i>Botrytis</i> .
Contender	Burpee's	3.4	0.9	8	8	9	8		3	4	
Tendercrop	Victory Seeds	3.3	0.8	9	8	9	9	9			Speckled bean
Romano Gold/Capitano	Stoke's	3.0	0.8	8	8	9	8	9	3	3	Flavorful, crisp texture.
Jumbo	Johnny's	1.9	0.5	7	7	9	7	9	3	3	
Jade II	Territorial	0.7	0.2	8	8	9	8		3	3	Poor germination.
Royal Burgundy	Johnny's	0.6	0.2	9	9	9	9	9	3	4	
Royalty Purple Pod	Burpee's	0.3	0.1	9	9	9	9	9	3	4	

# 2018 Brussels Sprouts

				Poor 9=Excellen nt				Quality: 1= Poor 5=Excellent			
Cultivar	Source	Yield/plot (lbs.)	Yield (lbs.)/row foot	Uniformity	Plant vigor	Pest Resistance	Disease	Bolting Sensitivity	Taste	Texture	Comments
Jade Cross (F1)	Harris Seeds	10.2	0.6	9	9	9	9	9	3	3	Vigorous and productive with some lodging and some splitting.
Hestia (F1)	Territorial	8.2	0.5	8	9	9	9	9	3	3	Matured early with well formed/compact sprouts. A few small sprouts.
Gustus (F1)	Fedco Seeds	5.2	0.3	8	9	9	9	9	3	3	Mostly well formed, firm sprouts. Some small sprouts.
Nautic (F1)	Territorial	4.1	0.2	7	8	9	9	8	3	3	Small sprouts, some loose.
Franklin (F1)	Territorial	3.4	0.2	7	8	9	9	9	2	2	Some plants displayed non-uniform growth.
Dimitri	Territorial	2.6	0.2	7	6	9	9	9	3	3	Uniformly small sprouts.
Roodnerf	Territorial	2.4	0.1	6	7	9	9	8			Small sprouts and 50% of plants lodged.
Dagan (F1)	Johnny's	2.2	0.1	7	6	9	9	9	3	3	Uniformly small sprouts.
Catskill	Eden Brothers	1.8	0.1	3	5	9	9	6			Some loose or small sprouts and some did not form. Some large sprouts.
Doric (F1)	High Mowing	1.8	0.1	7	7	9	9	9			Small but well-formed sprouts.
Igor	Territorial	1.2	0.1	2	5	9	8	7			Sprouts varied in size and 50% of plants didn't produce sprouts.
Long Island Improved	Eden Brothers	1.2	0.1	3	4	9	8	5	2	3	Very loose, poorly formed sprouts.
Rubine	Territorial										Did not mature or were loose.

# 2018 Corn

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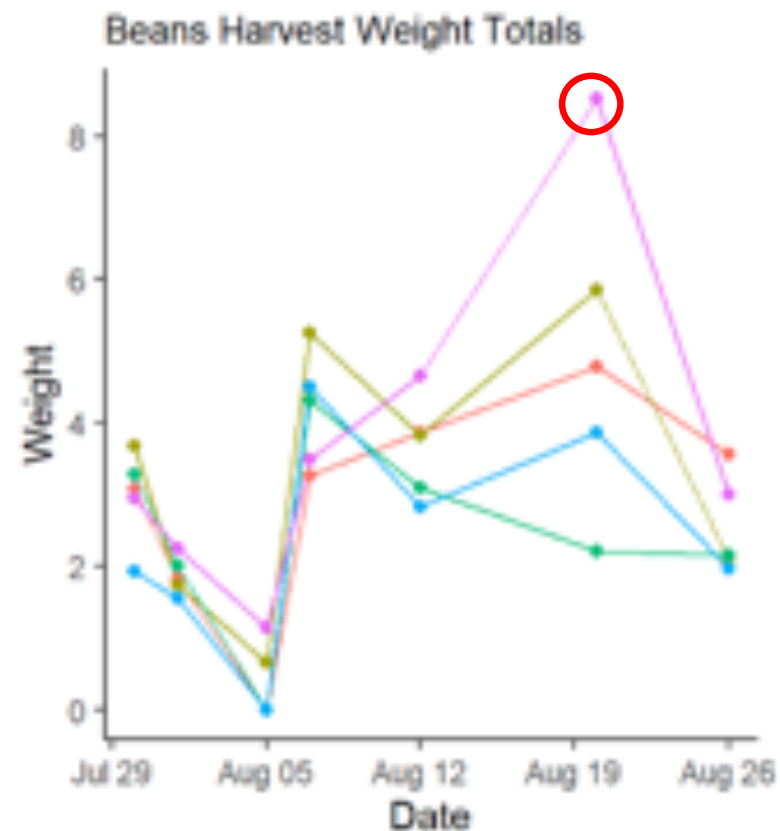


2019 Trials



# 2019 Beans

Variety — Bountiful — Contender — Jumbo — Provider — Rocdor



## BEANS

BEANS

Cultivar	Source	Yield (lbs.)/Plot			1=Poor 9=Excellent						1= Poor 5=Excellent		Comments
		Yield (lbs.)/ row foot			Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	
Bountiful	Territorial	1.4	0.4	N/A	7	9	8	9	9	3	4	Prolific	
Contender	Burpee's	1.3	0.3	N/A	9	9	9	9	9	3	4	Late to mature, produced very large beans. Sweet, slightly nutty flavor	
Jumbo	Johnny's	1.2	0.3	N/A	6	9	7	9	9	5	4		
Provider	Johnny's	0.9	0.2	N/A	9	9	8	9	9	3	3		
Rocdor	Johnny's	1.4	0.4	N/A	9	9	9	9	8	4	5	Prolific. Continues to produce beans late into the season.	

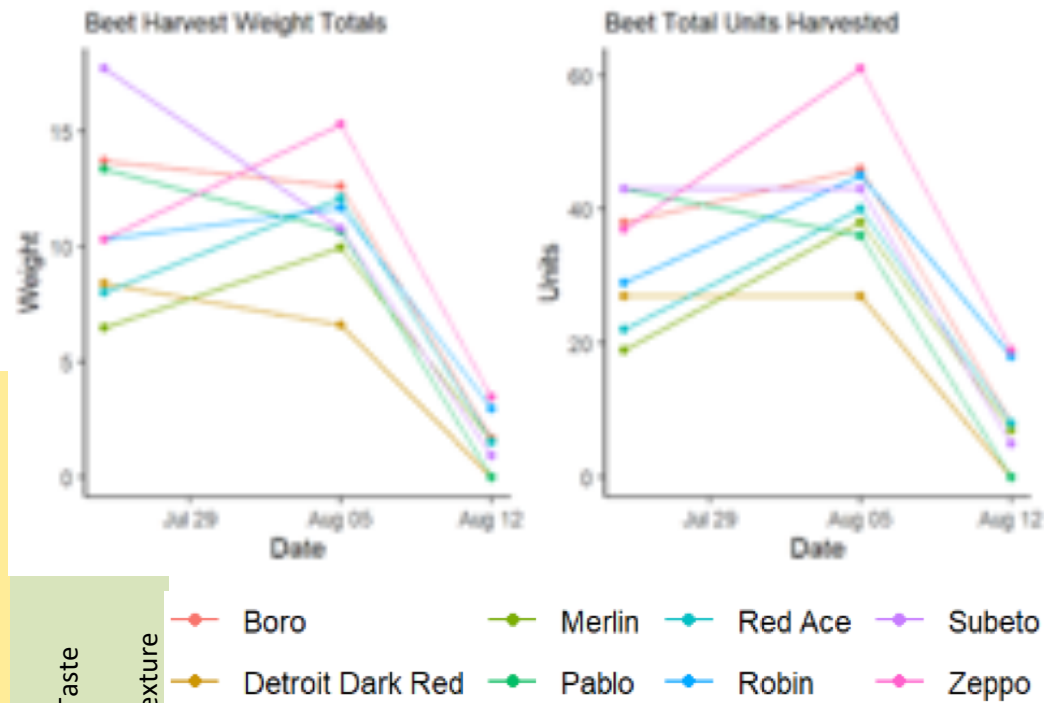
Date	Bountiful	Contender	Jumbo	Provider	Rocdor
Jul 29	2.0	1.8	1.5	1.2	1.0
Aug 02	1.5	1.2	1.0	0.8	0.6
Aug 05	0.0	0.0	0.0	0.0	0.0
Aug 08	1.0	0.8	0.6	0.4	0.2
Aug 11	1.5	1.2	1.0	0.8	0.6
Aug 14	1.8	1.5	1.2	1.0	0.8
Aug 17	2.0	1.8	1.5	1.2	1.0
Aug 20	2.0	1.8	1.5	1.2	1.0



Jumbo Beans

# 2019 Beets

## BEETS



BEETS					1=Poor 9=Excellent								
Cultivar	Source	Yield (lbs.)/Plot			Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	Comments	
		Yield (lbs.)/ row foot											
oz.													
Boro (F1)	Johnny's	4.0	1.0	4.9	9	9	8	9	9	3	3	Mild flavor	
Detroit Dark Red	High Mowing	2.5	0.6	4.4	9	6	7	9	8	1	2	Bitter, not good for storage. Not a great producer, had a slight tendanc	
Merlin (F1)	Territorial	2.6	0.7	4.5	8	7	7	9	9	4	4	Nice texture, fairly sweet	
Pablo (F1)	Territorial	4.0	1.0	4.8	9	9	9	9	9	2	3	Not a good storage beet	
Red Ace (F1)	Johnny's	7.2	1.8	4.9	8	9	7	9	9	3	4		
Robin (F1)	Territorial	8.3	2.1	4.3	9	8	8	9	9	4	4	Large, fairly uniform beets. Sweet.	
Subeto (F1)	Territorial	9.8	2.5	5.0	9	9	9	9	9	4	3	Produced huge beets (largest beet was 1.3 lbs)	
Zeppo (F1)	Johnny's	9.7	2.4	4.0	9	9	9	9	9	3	4	Firm after storage	

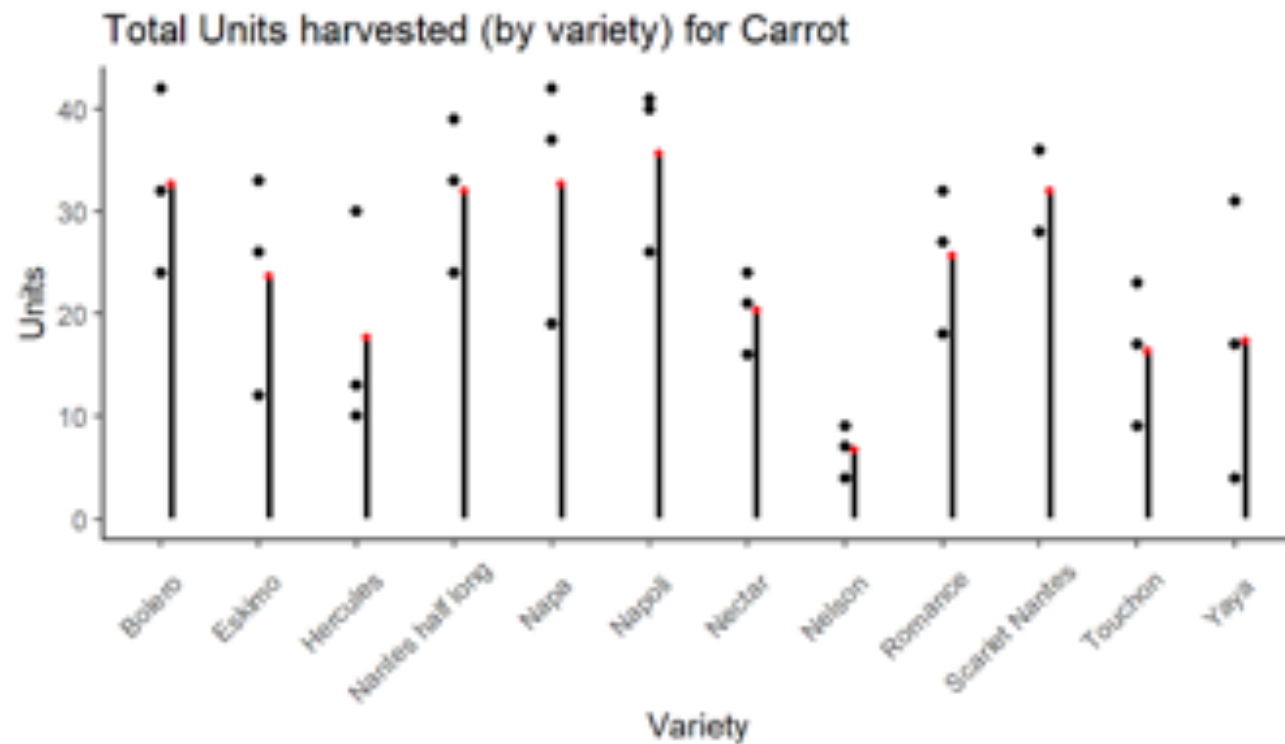
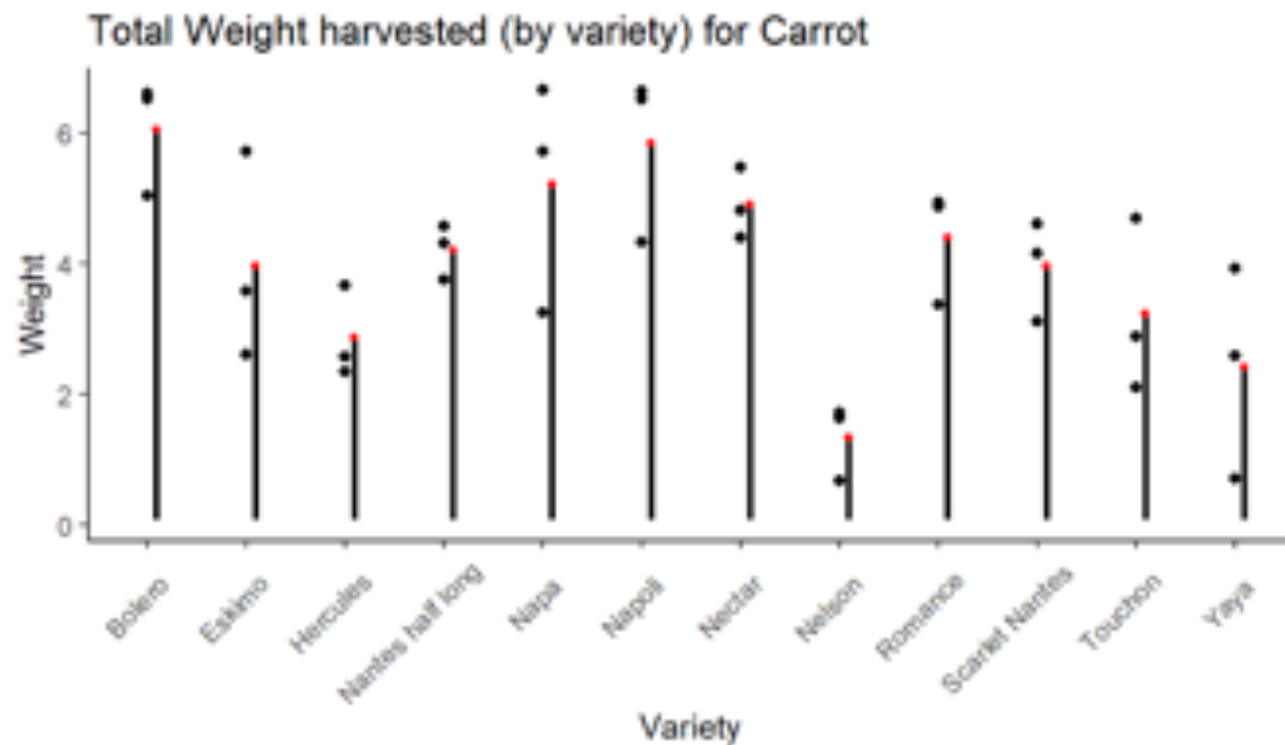
# 2019 Carrots

## Carrots

Carrots					1=Poor 9=Excellent					1= Poor 5=Excellent		
Cultivar	Source	Yield (lbs.)/Plot	Yield (lbs.)/row foot	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	Comments
oz.												
Bolero	Johnny's	6.1	3.1	3.0	9	9	9	9	9	4	4	Very Sweet, good crunch. Good storage carrot
Eskimo (F1)	Territorial	4.0	2.0	2.8	8	9	8	9	9	3	4	Crisp
Hercules (F1)	Johnny's	2.9	1.5	3.0	8	9	6	9	9	3	4	A little bland, very crunchy
Nantes ½ long	Burpee's	4.2	2.1	2.2	9	9	8	8	9	3	3	
Napa (F1)	Territorial	5.2	2.6	2.6	9	9	9	9	9	2	3	
Napoli (F1)	Johnny's	5.8	2.9	2.6	9	9	8	9	9	3	4	Pleasant Carrot shape
Nectar (F1)	Johnny's	4.9	2.5	3.9	9	9	7	9	8	3	3	Very Crispy
Nelson (F1)	West Coast Seeds	1.3	0.7	3.2	5	9	9	9	9	3	4	Poor germination and vigor likely die to use of old seed.
Romance (F1)	Johnny's	4.4	2.2	2.8	9	9	8	9	9	3	4	Good texture, firm and crunchy.
Scarlet Nantes	Burpee's	4.0	2.0	2.8	9	9	9	9	9	3	3	
Touchon	Burpee's	3.2	1.6	3.3	8	9	6	9	9	3	3	Nutty flavor
Yaya (F1)	Johnny's	2.4	1.2	2.5	8	9	7	8	9	3	3	Sweet, a little soft.



# 2019 Carrots



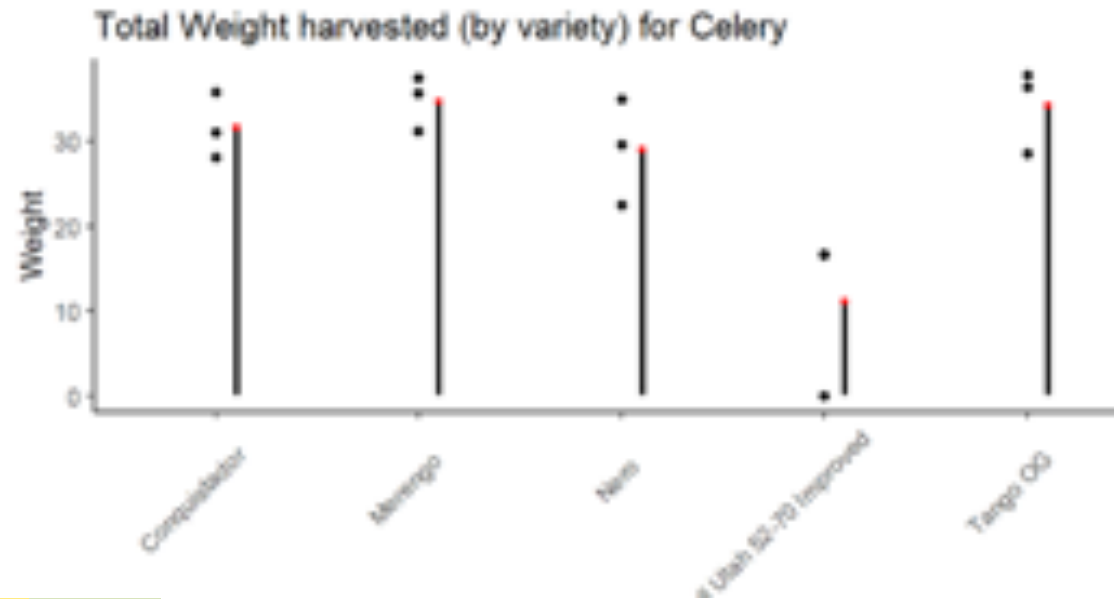
Guard Plot

Carrot

*Daucus carota*

Romance FT

# Celery 2019



## Celery

Celery					1=Poor 9=Excellent					1= Poor 5=Excellent		
Cultivar	Source	Yield (lbs.)/Plot	Yield (lbs.)/ row ft.	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	Comments
lbs.												
Conquistador	Johnny's	31.6	5.3	3.2	9	9	8	8	6	N/A	N/A	
Merengo (F1)	High Mowing	34.7	5.8	3.7	9	9	9	8	7	N/A	N/A	Grew the largest of all varieties tested. Had a sweet taste, not stringy.
Nero (F1)	Stokes	28.9	4.8	4.8	7	9	8	3	5	N/A	N/A	
Tall Utah 52-70 Improved	Burpee	11.1	1.9	4.8	6	6	7	6	6	N/A	N/A	High heat days appeared to affect this variety more than some others, some plants were discarded from count due to hollow stalk as a result of temperature.
Tango OG*	Johnny's	34.2	5.7	3.7	9	9	9	7	7	N/A	N/A	



A photograph showing a large quantity of harvested celery. The stalks are long, thick, and have a pale green to white color, indicating they are mature. They are topped with vibrant green, feathery leaves. The celery is piled together and rests on a wooden surface, possibly a table or a crate. The lighting is bright, suggesting an outdoor setting. The text "Merengo was the top yielding variety" is overlaid in white on the upper part of the image.

Merengo was the top yielding variety

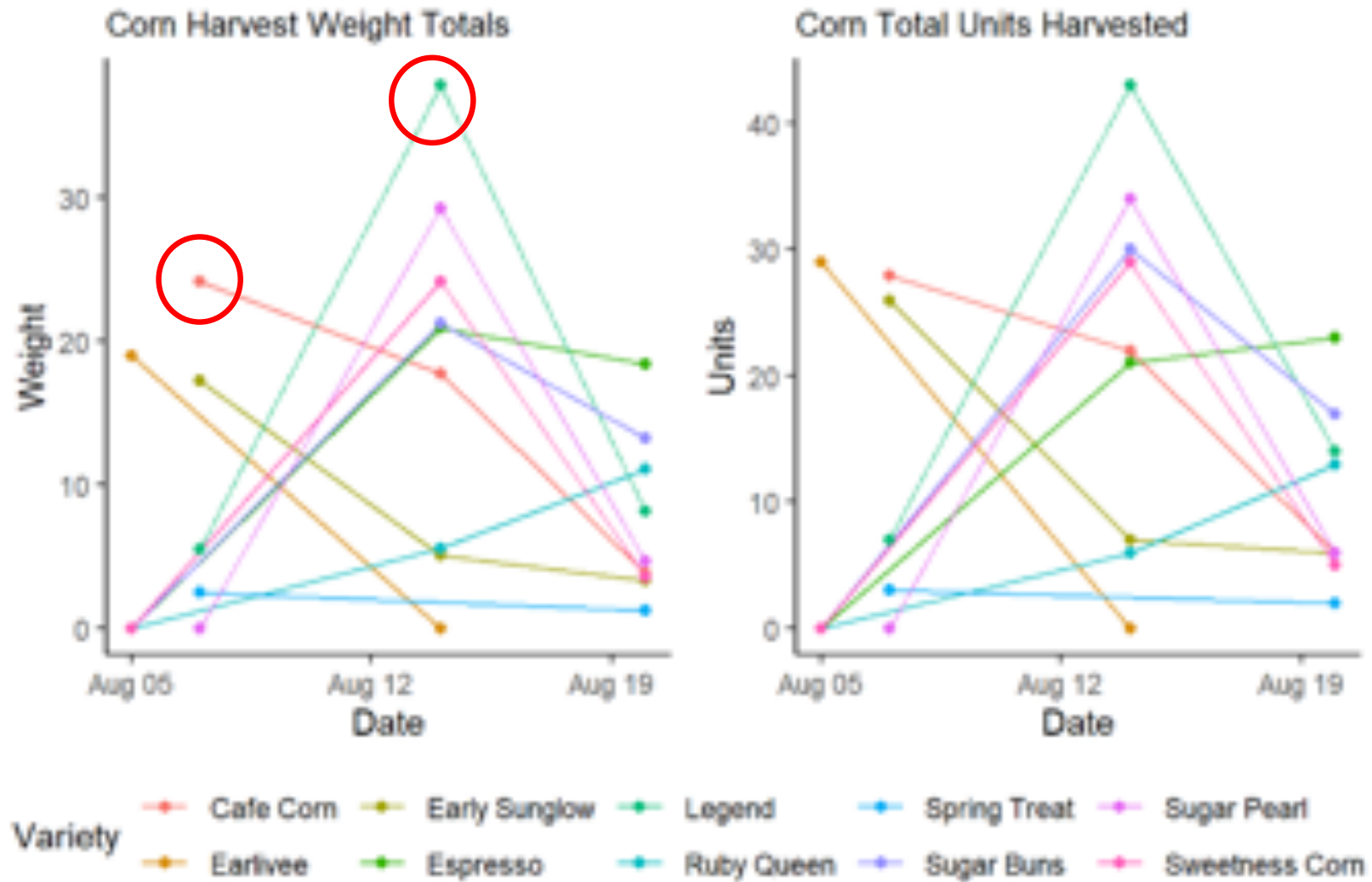
# 2019 Corn

corn

Cultivar	Source				1=Poor 9=Excellent					1= Poor 5=Excellent		Comments
		Yield (lbs.)/Plot	Yield (lbs.)/ row foot	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	
Corn												lbs
Cafe (F1)	Territorial	15.2	1.5	1.3	9	9	9	8	9	3	4	Good producer.
Earlivee (F1)	West Coast Seeds	6.3	0.6	0.5	8	9	8	9	9	1	2	Tough in texture. Earlier Variety
Early Sunglow	Burpees	8.5	0.9	0.7	8	9	7	9	9	2	1	Starchy. Taste test are likely due to ears past their prime at time of taste test. Pleasant "corn" flavor.
Espresso (F1)	Territorial	13.1	1.3	1.1	9	9	9	9	9	4	4	Produced well.
Legend (F1)	Park seed	17.1	1.7	1.4	9	9	8	9	9	2	3	Good producer.
Ruby Queen (F1)	Burpees	8.3	0.8	0.7	9	9	9	9	8	3	4	Very pretty mottled red kernels. Matured latest out of all varieties.
Spring Treat (F1)	Jung seed	3.8	0.4	0.3	9	9	6	9	9	3	3	Low yeild reflects only one plot of Spring Treat planted due to poor germination of transplants
Sugar Buns (F1)	Territorial	11.5	1.2	1.0	9	9	9	7	7	4	5	Very pleasant "corn" flavor, agreeably sweet.
Sugar Pearl (F1)	Johnny's	11.3	1.1	0.9	9	9	9	9	9	5	5	Jucy and sweet
Sweetness (F1)	Territorial	9.2	0.9	0.8	9	9	9	9	9	4	4	Very Sweet




# 2019 Corn: Harvest time series



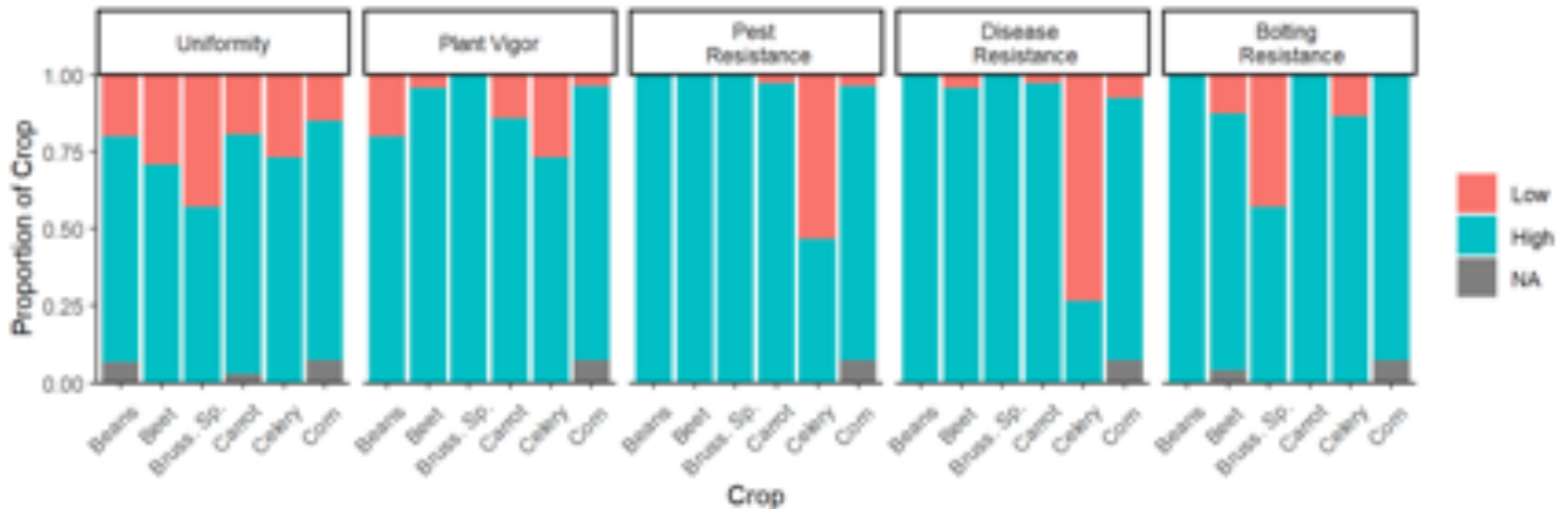
# 2019 Brussels Sprouts



Brussels Sprouts					1=Poor 9=Excellent					1= Poor 5=Excellent		
Cultivar	Source	Yield (lbs.)/Plot	Yield (lbs.)/ row foot	Avg. Unit weight	Plant vigor	Bolting Sensitivity	Uniformity	Pest Resistance	Disease Resistance	Taste	Texture	
oz.												
Dagan (F1)	Johnny's	7.9	0.8	0.4	9	9	9	9	9	4	4	Standard Brussels Sprout in flavor, texture and size.
Diablo	Territorial	4.0	0.4	0.3	8	9	9	9	7	2	3	Slightly bitter. Formed smaller sprouts.
Franklin (F1)	Territorial	3.6	0.4	0.3	9	8	9	9	9	4	5	Mild flavor, tneder.
Gustus (F1)	Fedco Seeds	2.8	0.3	0.3	8	9	9	9	9	5	5	Sweet and nutty.
Hestia (F1)	Territorial	6.8	0.7	0.5	4	9	9	9	5	2	1	Bland, loose sprouts.
Jade Cross (F1)	Harris Seeds	6.3	0.6	0.6	9	9	9	9	8	5	4	Good "Brussels Sprouts" flavor, a little nutty.
Nautic (F1)	Territorial	4.6	0.5	0.3	7	9	9	9	4	2	1	Formed loose sprouts.

# 2019 Results

Through Comparison of the subjective variables we can see proportion of high/low scores for each crop and variable measured.

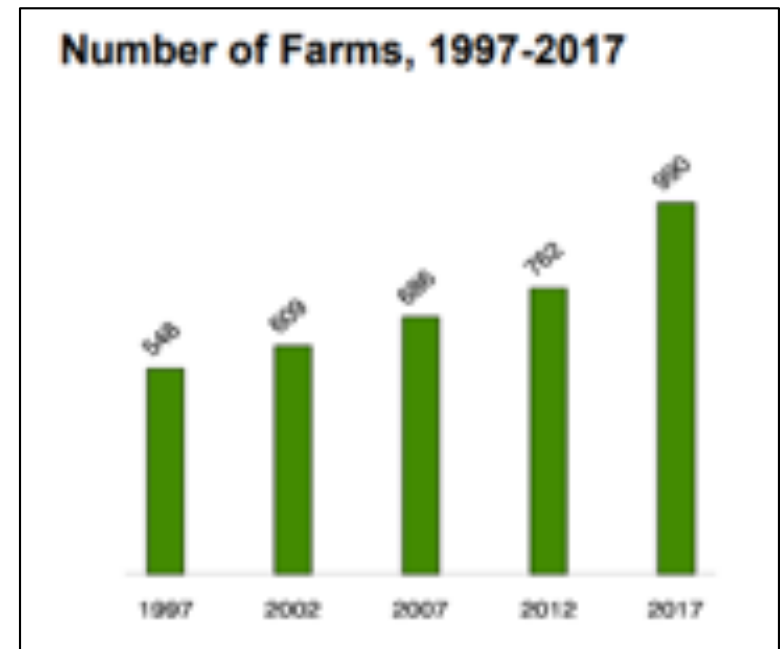


# 2020 Trials and Beyond...

In 2020 we will be moving to a new location in the Fairbanks Experimental Farm fields. We will continue to test the crops and varieties trialed in 2019. We also intend to add several new crops to our trials. If you want to help us decide to what to trial in the future, please consider completing the survey at:

<https://www.uaf.edu/afes/research/variety-trials/>

We plan to continue to expand the AFES vegetable variety trials to meet the needs of the growing number of new farmers in Alaska.



Number of Farms in Alaska from: 2017 Census of Agriculture



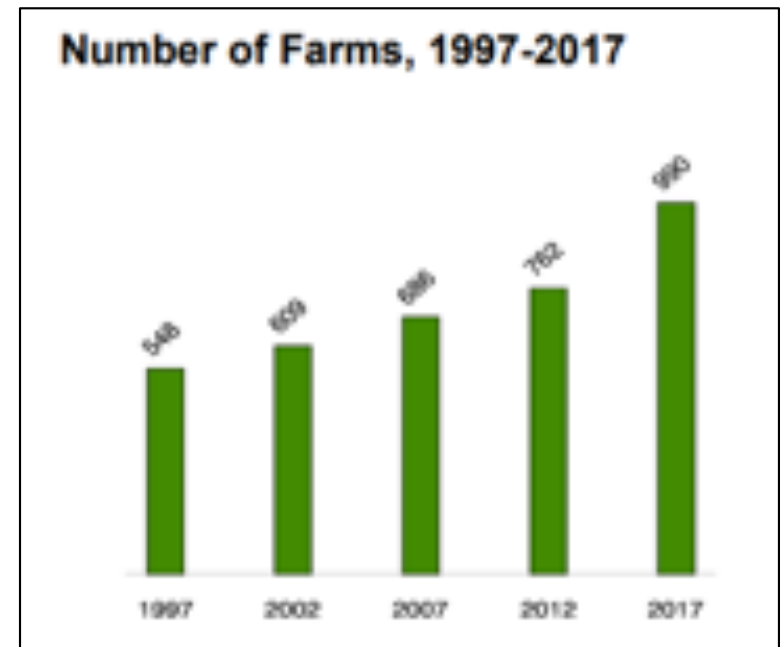
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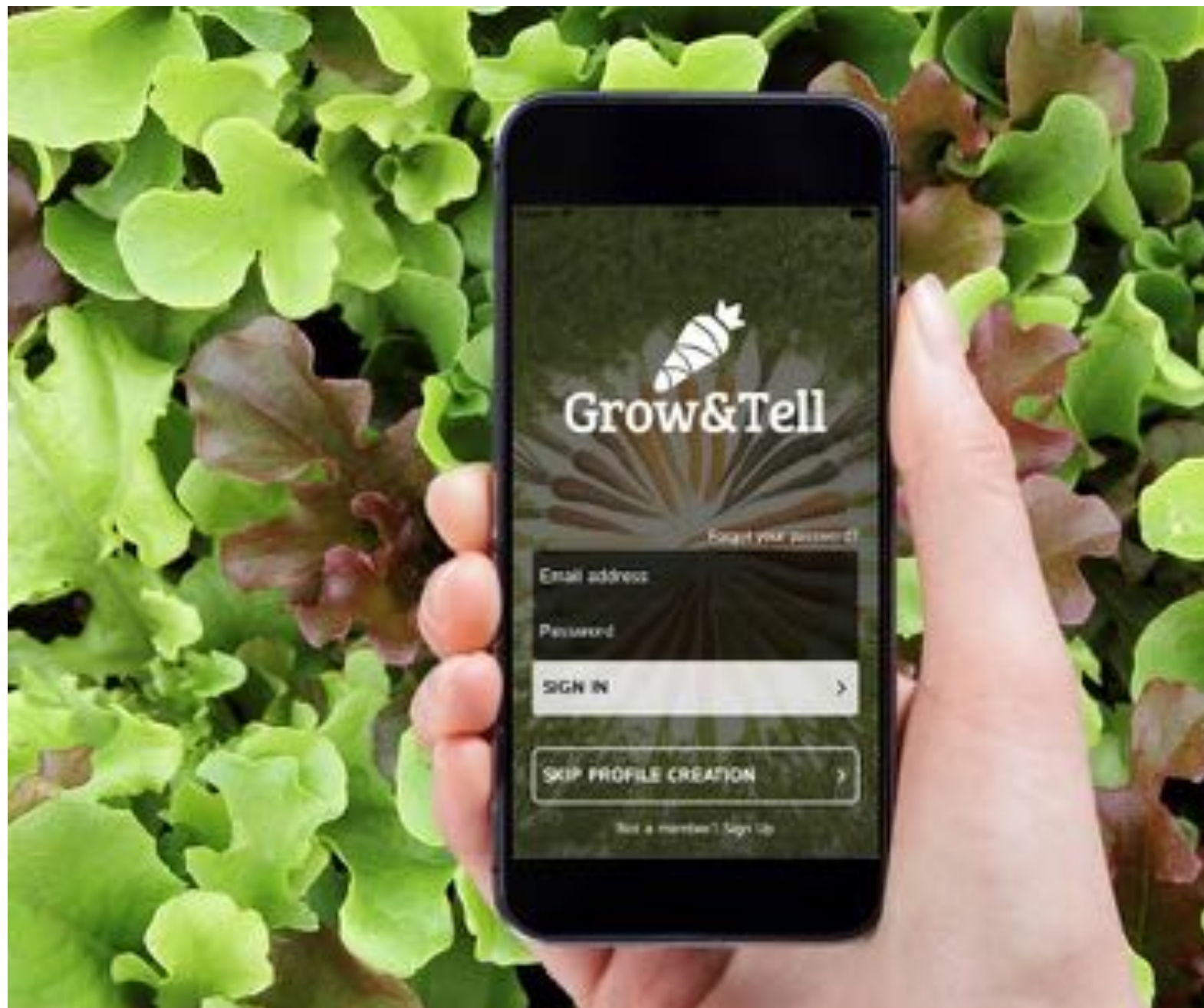
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Number of Farms in Alaska from: 2017 Census of Agriculture



# Grow & Tell

*Available  
Now!*

Carrier

5:37 PM



# Grow&Tell

[Forgot your password?](#)

Email address

Password

SIGN IN



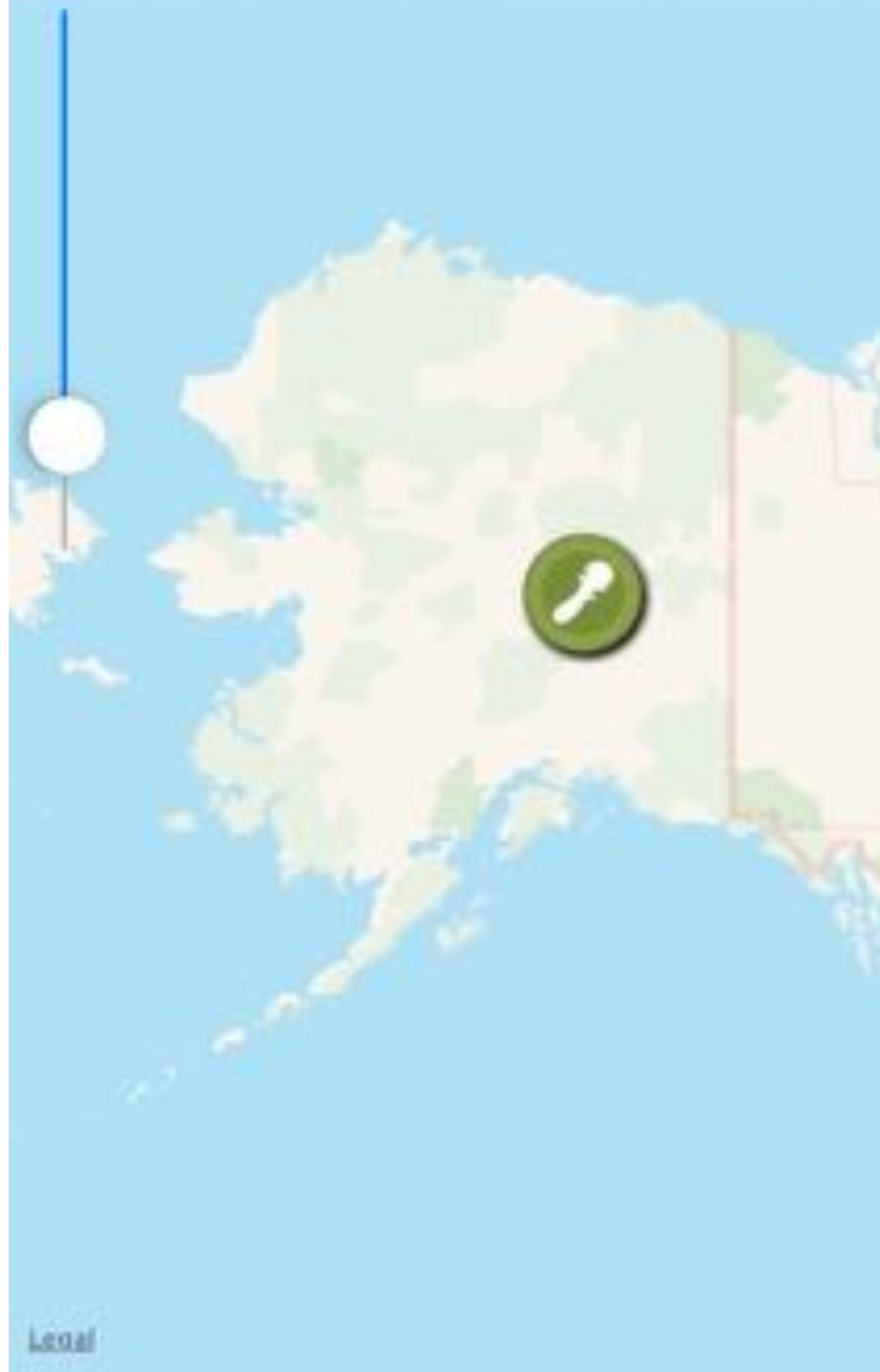
SKIP PROFILE CREATION



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EXPLORE BY LOCA...







LizGrowTest



Worcester, MA

10pts



Explore

My Crops

Rate Crops

Events

About Us

Log Out



Grow&Tell



## PLANT NEW CROP

*Step 1 of 4*

CROP

Basil  
Beans

**Beets**

Broccoli  
Broccoli Raab

Variety

Blankoma White Beet  
Boltardy

**Bull's Blood**

Burpee's Golden  
Carillon

Save and exit

Next





## PROFILE



gardener@growan...



MAP

45 pts



— MY CROPS —

+ New Crop

Broccoli

Peas

Beans

Burdock

Burdock





## PLANT NEW CROP

*Step 2 of 4*

———— RATE CROP ————

*Overall*



*Taste*



*Yield*



*Ease and Reliability*



Save and exit

Next







## PLANT NEW CROP

NEW HARVEST



*Date Harvested*

June 14 2015

July 15 2016

August 16 2017

*Area Harvested*

sq.ft.



*Weight Harvested*

lbs

*Quantity Harvested*

units

☐

This was the last harvest of the season

Submit

# The Numbers

## iOS

- 2018 Impressions 4,259
- 2018 Downloads: 195
- Lifetime Downloads: 3465

## Android

- 2018: 79
- Lifetime Downloads: 536

# Find out more about Variety trials in Alaska:

- To access agriculture research conducted by the UAF School of Natural Resources and Extension go to [www.uaf.edu/snre](http://www.uaf.edu/snre) or <https://scholarworks.alaska.edu/handle/11122/1013> and search by researcher or by topic. Search for author Grant Matheke for past variety trials (as far back as 1978).
- Go to [www.georgesonbotanicalgarden.org](http://www.georgesonbotanicalgarden.org) for research on perennials, annuals, flowers, vegetables and herbs in Fairbanks, Alaska. Look under the Research & Education tab.
- To see results from past trials, go to: <http://www.uaf.edu/afes/research/variety-trials/>
- To learn more about the importance of testing and choosing the right vegetable variety for where you live, go to <http://bit.ly/2y3uabV> and click on the video “How to Choose Varieties to Grow.”
- To see more about the Variety Trials, go to: <http://www.uaf.edu/afes/Agroborealis%2047.1.pdf>

# Thank You!



UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: [www.alaska.edu/nondiscrimination](http://www.alaska.edu/nondiscrimination). This material is based upon work that is supported by the eXtension Foundation as a part of the 2015 Innovation Fund granting program & the USDA National Institute of Food and Agriculture, Hatch Project # 1010090.

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