

# Annual Vegetable Trials 2009

AFES Variety Trial 2010-02

January 2010

## Researchers:

Grant E.M. Matheke  
Katherine DiCristina  
Etta Gardiner  
Patricia S. Holloway

## Student Interns:

Jorden Fredrickson  
Ellen Hatch  
Werner Hoefler  
Evan Matthews  
David Norris  
Shannon Pearce  
Patrik Pettersson Sartz  
Shona Snater



## Agricultural and Forestry Experiment Station

### AFES Publications Office

P.O. Box 757200  
Fairbanks, AK 99775-7200  
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### Georgeson Botanical Garden

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907.474.6921 or 907.474.5651 • fax: 907.474.6184

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## INTRODUCTION

Vegetable cultivar trials are conducted every year at the Alaska Agricultural and Forestry Experiment Station Georgeson Botanical Garden (64°51'N, 147°52'W). Trials consist of new and standard cultivars suitable for small market gardens and home gardens in the Tanana Valley, Alaska. Plot sizes are small, and results do not necessarily reflect yield and produce quality that might be expected on large farms. Positive results should be viewed as cultivars worth further testing at the great diversity of commercial and home gardens throughout the Tanana Valley.

Weather data are compiled annually from a U.S. Weather Service station, elevation 475ft (145m), located approximately 350ft (107m) west of the garden. Although it seemed quite warm, especially when compared to 2008, the 2009 growing season was only the fifth warmest since 1999 (based on thaw degree days, Table 1). However, The growing season of 126 days (last frost May 17–first killing frost, September 20) was 11

days longer than the 30-year mean. May started with a record high of 76°F and was warmer than normal. June was about average while July had the highest average daily maximum temperature and the lowest precipitation ever recorded in Fairbanks. The high temperatures combined with the drought enhanced area wildfires resulting in heavy smoke in the area for much of the latter half of July. August had cooler temperatures and increased rainfall which alleviated wildfire threats. September's mean temperatures were about 4° above the long-term mean. (Weather data based on information from the Alaska Climate Research Center, University of Alaska Fairbanks and the U.S. Weather Station west of the garden. Tables 1 & 2.)

The good weather was not without its drawbacks for both people (smoke) and plants (pests). The warmer than usual weather in May and July promoted a population explosion among insect pests, and aphids in particular decimated eggplants and peppers in the

raised beds by the entrance to the garden. Fortunately the aphid pressure was not as heavy on the container peppers that were in the cold frame and their yields were not severely reduced. Voles were a major problem throughout the Interior and they caused more damage in the garden than we have seen in 30 years. The entire pea crop was destroyed and several large peppers plus a good-sized artichoke were felled by voles.

Cultivar trials included 170 vegetables that are evaluated for at least three years as long as they are available commercially. The vegetable trials were planted from 15 May to 4 June 2008 (Table 3) in the Family Food Garden (map on page 3). Fairbanks silt loam soil was fertilized with 10-20-20S (4 lbs per 100 sq foot, 195 g per sq meter) prior to planting. Broccoli, cabbage, cauliflower, head lettuce, cucurbits, peppers, tomatoes, artichokes, and eggplant were grown as seedling transplants. All others were direct seeded. Transplants were hardened off outdoors for one week prior to transplanting.

**Table 1. Weather data from the U.S. Weather Service station located just west of the garden for years 1999–2009.**

Season	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Average temperature (°F):</b>											
May	46	44	45	50	44	52	56	50	50	47.8	50
June	61	59	57	58	61	66	67	59	60	58.2	58
July	61	59	61	61	61	65	63	62	64	58.9	65
August	58	52	57	54	55	62	58	55	60	52.6	53
September	45	41	49	47	41	38	46	50	47	45.5	47
<b>Maximum temperature (°F):</b>	<b>91</b>	<b>83</b>	<b>95</b>	<b>85</b>	<b>82</b>	<b>90</b>	<b>85</b>	<b>80</b>	<b>84</b>	<b>84</b>	<b>90</b>
<b>Growing season:</b>											
Last frost	May 29	May 15	May 13	May 12	May 24	May 8	May 5	June 4	May 13	May 30	May 17
First frost	Sept 11	Sept 16	Sept 24	Sept 2	Sept 13	Sept 4	Sept 2	Sept 25	Sept 22	Sept 21	Sept 20
Frost free days	105	124	134	113	112	119	120	112	132	113	126
Thaw degree days*	3383	2943	3439	2980	3123	3751	3767	3523	3728	3185.5	3473
Rainfall (inches)	8.66	8.55	5.8	9.35	9.91	5.6	10.59	7.86	11.32	8.96	6.4
<b>Previous winter season:</b>											
<b>Minimum temperature (°F)</b>	<b>-54</b>	<b>-50</b>	<b>-27</b>	<b>-36</b>	<b>-35</b>	<b>-45</b>	<b>-50</b>	<b>-49</b>	<b>-41.7</b>	<b>-46.1</b>	<b>-49.2</b>
Snowfall (inches)	31.6	62.2	39.9	39.7	33.2	51.7	70.9	51.8	25.2	46.9	68.6

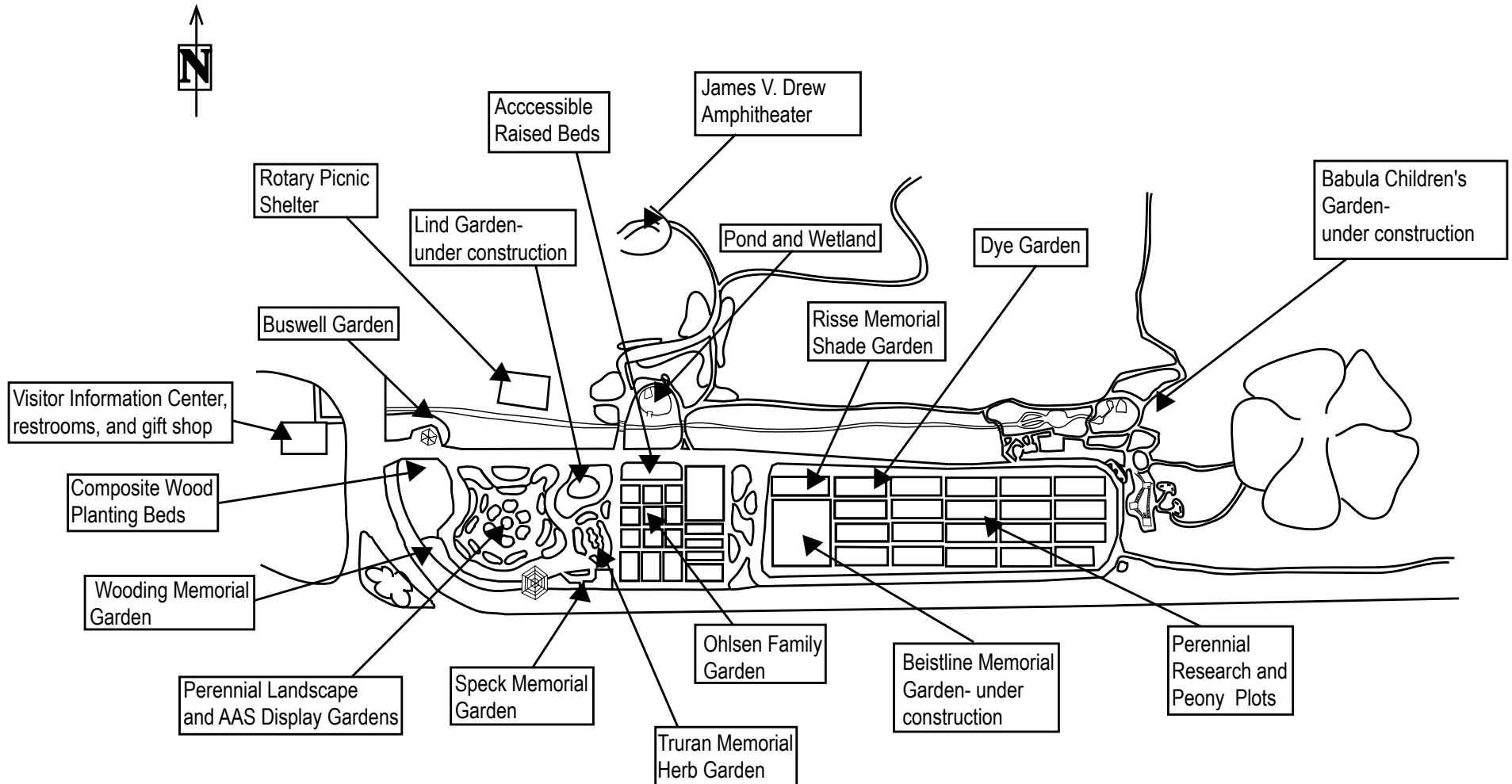
\* Thaw degree days = Cumulative ( 1 May - 30 Sep ) average daily temperature minus 32 °F baseline.

All cultivars were planted according to recommended commercial spacing guidelines (Table 3) in unreplicated beds. Plant numbers varied according to plot size. Plots were irrigated and hand weeded as needed throughout the summer. Rows of turnips, rutabaga, and radishes were covered with Reemay spun-bonded fabric to prevent root

maggot damage. Harvest began in mid June with radishes and continued three times weekly through September. Data consisted of yield as well as observations of disease, off-type plants, and deformities. Average yields are reported for cultivars tested for three seasons (Table 4).

**Table 2. Weather data summaries for growing sesason years 2007–2009.**

	MAY			JUNE			JULY			AUGUST			SEPTEMBER		
Temperature °F	2007	2008	2009	2007	2008	2009	2007	2008	2009	2007	2008	2009	2007	2008	2009
Average daily maximum	62	60	63	72	69	70	76	68	78	71	63	63	57	56	58
Monthly high	80	69	79	84	81	85	84	84	90	84	74	84	71	70	73
Average daily minimum	38	36	37	49	47	47	52	49	51	48	42	44	37	36	36
Monthly low	28	23	30	41	39	37	44	42	41	39	35	31	22	15	20
Rainfall (inches)	0.9	0.54	0.03	2.66	1.94	2.74	4.12	3.65	0.20	1.85	2.26	2.59	1.79	0.57	0.84



**Table 3. Vegetable Cultivar Trials, 2009.**

Common Name	Cultivar	Source	Date Seeded	Transplanted	Spacing within Row	Spacing between Rows	IRT Mulch	Yield (lbs)	per	Rating	Harvest Period	Comments
<b>Artichoke</b>	Imperial Star	Johnny's Selected Seeds	3/31	6/4	2'	3' rb	y	1.91	plant	4	Aug 14-Sep 18	One of two cultivars (also Green Globe) that will reliably produce artichokes when grown as an annual. Usually produces the highest yield.
<b>Bean</b>												
	Black Valentine	Heritage Harvest Seed	6/3	DS	1"	3'	n	0.22	foot	2	Aug 3-Aug 28	Low yields.
	Blue Lake Bush	Heirloom Seeds	6/3	DS	1"	3'	n	0.31	foot	2	Aug 3-Aug 28	Low yields.
	Oregon 54	Nichols Garden Nursery	6/3	DS	1"	3'	n	0.47	foot	2	Aug 7-Aug 28	
	Provider	Seedway	6/3	DS	1"	3'	n	0.56	foot	3	Jul 31-Aug 28	Usually reliable with high yields, low yields in '09.
Romano	Baroma Bush Romano	Nichols Garden Nursery	6/3	DS	1"	3'	n	0.29	foot	2	Aug 3-Aug 26	
Romano	Romano Gold	Stokes Seeds	6/3	DS	1"	3'	n	0.07	foot	1	Aug 3-Aug 28	Very nice yellow romano, low yields in '09.
Yellow Wax	Carson	Johnny's Selected Seeds	6/3	DS	1"	3'	n	1.34	foot	3	Aug 3-Aug 28	Excellent yellow wax bean.
<b>Beet</b>												
	Boltardy	Denali Seed Co.	5/26	DS	3-4"	2'	n	0.21	foot	2	Aug 21	Bolt resistant. Low yield in '09.
	Chioggia	Johnny's Selected Seeds	5/26	DS	3-4"	2'	n	0.78	foot	3	Jul 20-Aug 12	Unique, multicolored when cut.
	Crosby's Egyptian	Heirloom Seeds	5/26	DS	3-4"	2'	n	0.85	foot	2	Jul 20-Sep 14	Tendency to bolt.
	Cylindra	Lily Miller	5/26	DS	3-4"	2'	n	0.87	foot	3	Jul 20-Aug 21	Nice cylindrical-shaped beet.
	Early Blood Turnip	Heirloom Seeds	5/26	DS	3-4"	2'	n	1.25	foot	3	Jul 20-Sep 14	Tendency to bolt, but still has high yields.
	Kestral Baby	Kitchen Garden Seeds	5/26	DS	3-4"	2'	n	0.54	foot	2	Jul 20-Aug 12	Low yields.

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<b>Beet</b>	Red Ace	Johnny's Selected Seeds	5/26	DS	3-4"	2'	n	0.93	foot	3	Jul 20-Aug 21	Slight tendency to bolt.
	Scarlet Supreme	Kitchen Garden Seeds	5/26	DS	3-4"	2'	n	1.13	foot	3	Jul 20-Aug 21	Nice beet, high yields.
<b>Brussels Sprouts</b>												
	Falstaff	Kitchen Garden Seeds	3/24	5/23	24"	3'	n	0.44	foot	2	Aug 31-Sep 22	Late, attractive red-purple color. '09 strong unpleasant odor.
	Jade Cross E	Stokes Seeds	3/24	5/23	24"	3'	n	1.07	foot	4	Jul 15-Sep 22	Excellent variety for the Interior.
<b>Cabbage</b>												
	Deadon	Park Seed	4/21	5/23	16"	3'	n	2.25	plant	3	Aug 14	Late, similar to January King.
	January King	Heritage Harvest Seed	4/21	5/23	16"	3'	n	2.26	plant	3	Aug 14	Late, nice color.
	Glory of Enkhuizen	Heirloom Seeds	4/21	5/23	16"	3'	n	2.85	plant	3	Jul 16-Jul 22	Mid-season heirloom, earlier than Tobia.
	Tobia	Stokes Seeds	4/21	5/23	16"	3'	n	3.86	plant	3	Jul 22	Mid-season hybrid, later than Glory of Enkhuizen.
	Earliana	Burpee	4/21	5/23	16"	3'	n	2.70	plant	4	Jul 3-Jul 8	Very early green, small heads, good quality.
	Gonzales	Johnny's Selected Seeds	4/21	5/23	16"	3'	n	2.52	plant	3	Jul 15-Jul 17	Early green, small heads.
Cone Shaped	Arrowhead II	Johnny's Selected Seeds	4/21	5/23	16"	3'	n	2.18	plant	3	Jul 3-Jul 7	Cone-shaped hybrid.
Cone Shaped	Early Jersey Wakefield	Heirloom Seeds	4/21	5/23	16"	3'	n	1.90	plant	3	Jul 15-Jul 22	Heirloom. Nice cone-shaped cabbage, larger than Arrowhead.
Savoy	Savoy Express	All America Selections	4/21	5/23	16"	3'	n	1.70	plant	3	Jul 7-Jul 15	Very early, good color, some tip burn & mold.
Savoy	Taler	Stokes Seeds	4/21	5/23	16"	3'	n	3.73	plant	3	Aug 12	Nice, large, late savoy type.
<b>Carrot</b>												
	Adelaide	Kitchen Garden Seeds	5/26	DS	1"	2'	n	2.30	foot	3	Sep 15	Miniature Nantes-type carrot.

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<b>Carrot</b>	Bolero	Kitchen Garden Seeds	5/26	DS	1"	2'	n	1.09	foot	2.5	Aug 19	Sweet, good color.
	Ithaca	Johnny's Selected Seeds	5/26	DS	1"	2'	n	1.27	foot	3	Sep 15	Yield possibly reduced by unauthorized harvesting of tops.
	Sweetness	Denali Seed Co.	5/26	DS	1"	2'	n	2.76	foot	3	Aug 19-Sep 15	Good color. Nice robust carrot.
	Tendersweet	Denali Seed Co.	5/26	DS	1"	2'	n	2.08	foot	3	Aug 14-Sep 15	Long tapering roots.
	Thumbelina	Nichols Garden Nursery	5/26	DS	1"	2'	n	1.26	foot	3	Aug 19	Early round carrot.
<b>Cauliflower</b>												
	Amazing	Park Seed	4/21	5/23	16"	3'	n	1.70	plant	3	Jul 17-Jul 24	Good quality.
	Apex	Stokes Seeds	4/21	5/23	16"	3'	n	1.66	plant	3	Jul 17-Jul 22	Good quality.
	Fremont	Twilley Seeds	4/21	5/23	16"	3'	n	1.56	plant	3	Jul 17-Jul 22	Good quality.
	Minuteman	Stokes Seeds	4/21	5/23	16"	3'	n	2.75	plant	3	Jul 17-Jul 22	Nice wrapper leaves, self-blanching, high yield.
	Snow Crown	Stokes Seeds	4/21	5/23	16"	3'	n	1.94	plant	3	Jul 10-Jul 17	Earliest cauliflower.
<b>Celery</b>	Florida 683	Stokes Seeds	3/24	6/4	4-6"	3'	n	3.77	foot	3	Sep 15	Excellent celery, consistent high yields.
<b>Cucumber</b>												
	Cool Breeze	Nichols Garden Nursery	5/5	6/2	3' 4"	5'	y	13.49	plant	2.5	Jul 7-Aug 21	
	Genuine	Heirloom Seeds	5/5	6/2	3' 4"	5'	y	18.57	plant	3	Jul 10-Aug 26	Heirloom slicer, ca. 8 inch.
	Long Green Improved	Heirloom Seeds	5/5	6/2	3' 4"	5'	y	16.45	plant	3	Jul 10-Aug 31	Heirloom slicer, ca. 10-12 inch.
	Marketmore 76	Heirloom Seeds	5/5	6/2	3' 4"	5'	y	11.76	plant	2.5	Jul 10-Aug 26	
	Salad Bush	Vesey's Seeds	5/5	6/2	3' 4"	5'	y	14.47	plant	2.5	Jul 17-Aug 31	

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<b>Cucumber</b>	Straight Eight	Heirloom Seeds	5/5	6/2	3' 4"	5'	y	17.27	plant	3	Jul 15-Aug21	
	Sweet Success	Shumway's (Horticultural Products & Services)	5/5	6/2	3' 4"	5'	y	36.87	plant	4	Jul 7-Aug31	Long-slicing cucumber, consistent high yields.
Multi-purpose	Cool Breeze	Nichols Garden Nursery	5/5	6/2	3' 4"	5'	y	13.88	plant	3	Jul 7-Aug 21	
Pickling	Bush Pickle	Stokes Seeds	5/5	6/2	3' 4"	5'	y	9.77	plant	3	Jul 15-Aug 24	Compact plant.
Pickling	H-19 Little Leaf	Johnny's Selected Seeds	5/5	6/2	3' 4"	5'	y	12.37	plant	3.5	Jul 10-Aug21	Excellent pickling cucumber, small leaves make it easy to pick.
<b>Eggplant</b>												
	Casper	Territorial Seed Co.	3/24	6/4	1.5'	2' rb	y	0.45	plant	2	Aug 12-Sep 18	Nice pure white eggplant, lower yield than 'Snowy' or 'Tango'. '09 eggplants were heavily infested with aphids.
	Fairy Tale	All America Selections	3/24	6/4	1.5'	2' rb	y	0.10	plant	1	Sep 15-Sep 18	Pretty lavender with white streaks, high yield. '09 eggplants were heavily infested with aphids.
	Ichiban	Garden City Seeds	3/24	6/4	1.5'	2' rb	y	0.54	plant	2	Aug 3-Aug 21	Medium yield. '09 eggplants were heavily infested with aphids.
	Orient Express	Johnny's Selected Seeds	3/24	6/4	1.5'	2' rb	y	0.27	plant	2	Aug 3-Aug 21	'09 eggplants were heavily infested with aphids.
	Raveena	Park Seed	3/24	6/4	1.5'	2' rb	y	0.21	plant	-	Aug 21	Small, single-serving green eggplant, lower yields. '09 eggplants were heavily infested with aphids.
	Tango	Johnny's Selected Seeds	3/24	6/4	1.5'	2' rb	y	0.00	plant	-	----	Nice white eggplant, high yield. '09 eggplants were heavily infested with aphids.
<b>Greens</b>												
Chinese Cabbage	Canton White Stem	Denali Seed Co.	5/26	DS	12"	2.5'	n	0.00	foot	-	----	All plants bolted.
Chinese Cabbage	China Choy	Seeds of Change	5/26	DS	12"	2.5'	n	0.49	foot	2.5	Jul 10-Jul 15	About 1/3 of the plants bolted.

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<b>Greens, Chinese Cabbage</b>	White Stem	Denali Seed Co.	5/26	DS	12"	2.5'	n	0.00	foot	-	----	All plants bolted.
Japanese Mustard	Komatsuna	Stokes Seeds	5/26	DS	7"	2.5'	n	0.55	foot	2	Jul 15-Jul 24	Tendency to bolt.
Mustard	Osaka Purple	Johnny's Selected Seeds	5/26	DS	7"	2.5'	n	0.00	foot	-	----	No data, all bolted.
<b>Kale</b>												
Kale	Red Russian	Johnny's Selected Seeds	5/26	DS	10"	3'	n	3.26	foot	3	Jul 24-Sep 22	Consistent high yields, attractive in garden, poor germination in '07.
Kale	Redbor	Territorial Seed Co.	5/26	DS	10"	3'	n	4.67	foot	3	Jul 24-Sep 22	Poor germination in '07. Nice kale, high yields.
Kale	Winterbor	Johnny's Selected Seeds	5/26	DS	10"	3'	n	5.68	foot	3.5	Jul 24-Sep 22	Very good, attractive, reliable kale.
<b>Kohlrabi</b>												
	Early Purple Vienna	Heirloom Seeds	5/26	DS	4-5"	2'	n	1.77	foot	3	Jul 27-Sep 14	Heirloom variety.
	Early White Vienna	Heirloom Seeds	5/26	DS	4-5"	2'	n	2.12	foot	3	Jul 24-Sep 14	Heirloom variety.
	Kolibri	Johnny's Selected Seeds	5/26	DS	4-5"	2'	n	2.56	foot	3	Jul 24-Sep 14	Excellent purple-skinned kohlrabi.
	White Winner	Johnny's Selected Seeds	5/26	DS	4-5"	2'	n	2.33	foot	3	Jul 27-Sep 14	
<b>Leek</b>												
	Giant Musselburg	Heirloom Seeds	3/19	6/3	3"	3'	n	3.79	foot	3	Sep 10-Sep 18	Heirloom, good quality.
	Kilima	Nichols Garden Nursery	3/19	6/3	3"	3'	n	4.15	foot	3	Sep 14-Sep 18	Good quality.
	King Richard	Johnny's Selected Seeds	3/19	6/3	3"	3'	n	4.50	foot	4	Sep 10-Sep 18	Nice leek, consistent high yields.
	Sherwood	Seeds of Change	3/19	6/3	3"	3'	n	1.77	foot	2.5	Sep 10-Sep 18	Lower yield than others.

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<b>Lettuce</b>												
Butterhead	Buttercrunch	Irish Eyes & Garden City Seeds	4/21	6/3	12"	3'	n	1.44	plant	3	Jul 10	2005 slight tipburn.
Butterhead	Carmona Red	Seeds of Change	4/21	6/3	12"	3'	n	1.50	plant	3	Jul 8-Jul 10	
Butterhead	Ermosa	Johnny's Selected Seeds	4/21	6/3	12"	3'	n	0.92	plant	2	Jul 8-Jul 10	
Butterhead	Four Seasons	Seeds of Change	4/21	6/3	12"	3'	n	0.76	plant	2	Jul 8-Jul 10	
Butterhead	Grappa Butterhead	Kitchen Garden Seeds	4/21	6/3	12"	3'	n	1.15	plant	2.5	Jul 8-Jul 17	Some tipburn in '09.
Butterhead Romaine	Eruption	Vesey's Seeds	4/21	6/3	12"	3'	n	1.39	plant	3	Jul 16	
Crisphead	Crispino	Johnny's Selected Seeds	4/21	6/3	12"	3'	n	2.95	plant	3	Jul 14	
Crisphead	Maverick	Stokes Seeds	4/21	6/3	12"	3'	n	2.08	plant	3	Jul 10-Jul 14	Discontinued? [Seed no longer readily available.]
Crisphead	Summertime	Nichols Garden Nursery	4/21	6/3	12"	3'	n	2.50	plant	3	Jul 14	
Leaf	Bergamo	Johnny's Selected Seeds	6/3	DS	10"	3'	n	2.20	foot	3	Jul 15-Sep 14	Light green lollo type.
Leaf	Marimba	Johnny's Selected Seeds	6/3	DS	10"	3'	n	1.80	foot	3	Jul 15-Sep 14	
Leaf	Oscarde	Johnny's Selected Seeds	6/3	DS	10"	3'	n	0.51	foot	2	Jul 15-Sep 14	Red oakleaf.
Leaf	Revolution	Territorial Seed Co.	6/3	DS	10"	3'	n	0.67	foot	2	Jul 15-Sep 14	Beautiful, holds well, lower yield than others.
Leaf	Ruby Ruffles	Park Seed	6/3	DS	10"	3'	n	2.51	foot	4	Jul 15-Sep 14	Good color.
Leaf	Soltero	Johnny's Selected Seeds	6/3	DS	10"	3'	n	0.63	foot	2	Jul 15-Sep 14	Dark red lollo type. Low yield in '09.

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<b>Lettuce, Romaine</b>	Cimarron Red	Garden City	4/21	6/3	12"	3'	n	2.48	plant	3	Jul 14	
Romaine	Giant Caesar	W. Atlee Burpee & Co.	4/21	6/3	12"	3'	n	2.90	plant	2	Jul 16	Susceptible to tipburn.
Romaine	Marshall	Territorial Seed Co.	4/21	6/3	12"	3'	n	1.73	plant	3	Jul 14	
Romaine	Red Rosie	Johnny's Selected Seeds	4/21	6/3	12"	3'	n	1.89	plant	2	Jul 16	Very deep red, susceptible to tipburn.
<b>Pea</b>	All Cultivars		5/27	DS	1"	3'	n					'09 no peas were harvested due to extensive vole damage.
<b>Pepper</b>												
	Ace	Johnny's Selected Seeds	3/31	6/4	1'	2' rb	y	0.34	plant	2	Jul 22	Excellent green bell pepper for the Interior. '09 peppers were heavily infested with aphids.
	Biscayne	Stokes Seeds	3/31	6/4	1'	2' rb	y	0.16	plant	1	Jul 22	Nice pale green sweet banana-type pepper. '09 peppers were heavily infested with aphids.
	Blushing Beauty	All America Selections	3/31	6/4	1'	2' rb	y	0.19	plant	2	Jul 31-Sep 18	Light yellow, maturing to red, bell pepper. '09 peppers were heavily infested with aphids.
	Carmen	All America Selections	3/31	6/4	1'	2' rb	y	0.44	plant	2	Jul 22-Sep 15	Sweet Italian bull's horn type. '09 peppers were heavily infested with aphids. '09 vole damage.
	Early Jalapeno	Johnny's Selected Seeds	3/31	6/4	1'	2' rb	y	0.17	plant	2	Sep 15-Sep 18	Nice early jalapeno. '09 peppers were heavily infested with aphids. '09 vole damaged.
	Friggitello	Thompson & Morgan	3/31	6/4	1'	2' rb	y	0.83	plant	2	Jul 22-Sep 18	'09 peppers were heavily infested with aphids. '09 voles killed 1 of 2 plants.
	Giant Marconi	All America Selections	3/31	6/4	1'	2' rb	y	0.36	plant	2	Aug 7-Aug 17	6-8" tapered green pepper. '09 peppers were heavily infested with aphids. '09 voles killed 1 of 2 plants.
	Holy Mole	Park Seed	3/31	6/4	1'	2' rb	y	0.77	plant	2	Jul 22-Sep 18	'09 peppers were heavily infested with aphids.
	Hungarian Semi-hot Stuffing	Nichols Garden Nursery	3/31	6/4	1'	2' rb	y	0.43	plant	2	Jul 22-Aug 17	Replacement for 'Hungarian Yellow Hot Wax'. '09 peppers were heavily infested with aphids.

Rating: 0. dead, did not germinate, total loss because of disease, etc.; 1. poor germination, susceptible to disease, insects, other problems, poor quality; 2. fair, other cultivars of its kind have been better; 3. good, worth growing, good quality; 4. outstanding, the best of its kind grown in the garden.

**Table 3. Vegetable Cultivar Trials, 2009, continued.**

Common Name	Cultivar	Source	Date Seeded	Transplanted	Spacing within Row	Spacing between Rows	IRT Mulch	Yield (lbs)	per	Rating	Harvest Period	Comments
<b>Pepper</b>	Mariachi	All America Selections	3/31	6/4	1'	2' rb	y	0.72	plant	2.5	Jul 22-Sep 18	Mildly hot cone-shaped 4"x2" pepper. '09 peppers were heavily infested with aphids.
	Redstart	Stokes Seeds	3/31	6/4	1'	2' rb	y	0.49	plant	2.5	Jul 22-Jul 31	'09 peppers were heavily infested with aphids.
	Sweet Banana	Park Seed	3/31	6/4	1'	2' rb	y	0.59	plant	2	Jul 29-Sep 15	'09 peppers were heavily infested with aphids.
	Thai Dragon	Thompson & Morgan	3/31	6/4	1'	2' rb	y	0.04	plant	1	Aug 10	'09 peppers were heavily infested with aphids.
Container	Mohawk	Park Seed	3/31	6/4	Pots	Pots	y	0.86	plant	2.5	Aug 7-Sep 23	Compact bell developed for containers. Grown in 2-gallon nursery containers.
Container	Redskin	Park Seed	3/31	6/4	Pots	Pots	y	1.33	plant	3.5	Aug 14-Sep 23	Compact red bell developed for containers. Grown in 2-gallon nursery containers.
<b>Pumpkin</b>												
	Baby Pam	Johnny's Selected Seeds	4/30	6/1	7'	7'	y	17.94	plant	2.5	Sep 15	Small pie pumpkin.
	Connecticut Field	Germania Seed Co.	4/30	6/1	7'	7'	y	97.98	plant	3	Sep 15	Large, consistently high yield.
	Lumina	Nichols Garden Nursery	4/30	6/1	7'	7'	y	71.55	plant	3	Sep 15	Nice white-skinned pumpkin.
	New England Pie	Johnny's Selected Seeds	4/30	6/1	7'	7'	y	55.47	plant	3	Sep 15	Heirloom, small-sized, pie pumpkin.
	Orange Smoothie	All America Selections	4/30	6/1	7'	7'	y	78.07	plant	3	Sep 15	Bright orange skins when mature. Yields lower than most.
	Racer	Johnny's Selected Seeds	4/30	6/1	7'	7'	y	84.22	plant	4	Sep 15	Earliest to turn orange.
	Rock Star	Johnny's Selected Seeds	4/30	6/1	7'	7'	y	85.02	plant	3.5	Sep 15	Excellent large pumpkin, consistently high yields.
	Sorcerer	All America Selections	4/30	6/1	7'	7'	y	111.71	plant	4	Sep 15	Excellent production from a compact vine.

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**Table 3. Vegetable Cultivar Trials, 2009, continued.**

Common Name	Cultivar	Source	Date Seeded	Transplanted	Spacing within Row	Spacing between Rows	IRT Mulch	Yield (lbs)	per	Rating	Harvest Period	Comments
<b>Radish</b>												
	Cabernet	Johnny's Selected Seeds	5/26	DS	1"	2.5'	n	0.63	foot	3	Jun 26	Cherry red, low yield.
	Easter Egg	Johnny's Selected Seeds	5/26	DS	1"	2.5'	n	0.24	foot	2	Jun 26	Mix of red, purple, and white radishes. Lower yields than others.
	Rudi	Nichols Garden Nursery	5/26	DS	1"	2.5'	n	0.54	foot	3.5	Jun 26	Excellent dark red round radish.
<b>Rutabaga</b>	The Laurentian	Stokes Seeds	5/26	DS	5-6"	3'	n	0.90	foot	2	Jul 20-Jul29	Good rutabaga for the Interior.
<b>Spinach</b>												
	Melody	Stokes Seeds	5/26	DS	4"	3'	n	1.30	foot	3	Jul 7-Jul 20	Most reliable for Fairbanks, resists bolting.
	Spaulding	Territorial Seed Co.	5/26	DS	4"	3'	n	1.39	foot	3	Jul 7-Jul 20	Holds well, high yield, appears to be as good as Melody.
<b>Squash</b>												
Summer	#60607	Denali Seed Co.	5/21	6/1	3' 4"	5'	y	25.90	plant	3	Jul 13-Sep 16	Experimental cultivar from Denali Seed, high yield.
Summer	Horn of Plenty	Denali Seed Co.	5/21	6/1	3' 4"	5'	y	17.53	plant	2	Jul 13-Sep 16	Yellow crook neck, moderate yield.
Summer	Magda	Park Seed	5/5	6/1	3' 4"	5'	y	42.47	plant	4	Jul 3-Sep 16	Excellent flavor, consistent high yields.
Summer	Papaya Pear	All America Selections	5/5	6/1	3' 4"	5'	y	31.39	plant	4	Jul 7-Sep 16	Interesting papaya shape, sweet mild flavor. High yields.
Summer	Soleil	Thompson & Morgan	5/5	6/1	3' 4"	5'	y	25.98	plant	3	Jul 10-Sep 16	Yellow straight neck, high yields.
Summer	Sunray	Johnny's Selected Seeds	5/21	6/1	3' 4"	5'	y	15.08	plant	2	Jul 13-Sep 16	Yellow straight neck, moderate yield.
Summer	Superpik	Territorial Seed Co.	5/5	6/1	3' 4"	5'	y	22.18	plant	2	Jul 10-Sep 2	Yellow straight neck, high yields.
Summer, Zucchini	Eight Ball	Stokes Seeds	5/21	6/1	3' 4"	5'	y	31.77	plant	4	Jul 10-Sep 16	Excellent ball-shaped zucchini. High yields.
Summer, Zucchini	Jackpot	Denali Seed Co.	5/21	6/1	3' 4"	5'	y	24.16	plant	3	Jul 10-Sep 16	New cultivar from Denali Seed.

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**Table 3. Vegetable Cultivar Trials, 2009, continued.**

Common Name	Cultivar	Source	Date Seeded	Transplanted	Spacing within Row	Spacing between Rows	IRT Mulch	Yield (lbs)	per	Rating	Harvest Period	Comments
Squash, Summer, Zucchini	Jade Bar	Denali Seed Co.	5/21	6/1	3' 4"	5'	y	39.35	plant	4	Jul 10-Sep 16	New cultivar from Denali Seed, high yield.
Summer, Zucchini	Jade Pearls	Denali Seed Co.	5/21	6/1	3' 4"	5'	y	27.36	plant	3	Jul 10-Sep 11	New cultivar from Denali Seed.
Summer, Zucchini	Milano Black	Kitchen Garden Seeds	5/5	6/1	3' 4"	5'	y	33.19	plant	4	Jul 7-Sep 16	Very dark-skinned zucchini.
Summer, Zucchini	One Ball	Park Seed	5/5	6/1	3' 4"	5'	y	32.55	plant	4	Jul 3-Sep 16	Excellent golden yellow ball-shaped zucchini. High yields.
Summer, Zucchini	Radiant	Stokes Seeds	5/5	6/1	3' 4"	5'	y	32.97	plant	4	Jul 3-Sep 11	Dark green zucchini, high yields.
Summer, Zucchini	Raven	Johnny's Selected Seeds	5/21	6/1	3' 4"	5'	y	34.32	plant	4	Jul 10-Sep 16	Dark green zucchini, high yields.
Winter	Blue Hubbard	Heirloom Seeds	4/30	6/3	3' 6"	6' 6"	y	48.56	plant	3	Sep 22	Heirloom, excellent, large blue-green fruit, high yield.
Winter	Bonbon	All America Selections	4/30	6/3	3' 6"	6' 6"	y	11.07	plant	3	Sep 22	Semi-bush.
Winter	Boston Marrow	Heritage Harvest Seed	4/30	6/3	3' 6"	6' 6"	y	19.51	plant	3	Sep 22	Heirloom.
Winter	Heavenly Hubbard	Stokes Seeds	4/30	6/3	3' 6"	6' 6"	y	22.32	plant	3	Sep 22	Hybrid blue-grey hubbard, moderate yield in '09
Winter	Red October	Stokes Seeds	4/30	6/3	3' 6"	6' 6"	y	17.05	plant	2.5	Sep 22	Eye-catching orange-red hubbard.
<b>Sweet Corn</b>												
	Earlivee	Territorial Seed Co.	5/15	DS	1'	5'	y	4.75	foot	3.5	Aug 10-Aug 31	Normally 3rd early in our trials, 2nd largest ears.
	Polar Vee	Vermont Bean Seed Co.	5/15	DS	1'	5'	y	3.65	foot	3	Aug 10-Sep 8	Normally 2nd early, larger ears than Yukon Chief.
	Seneca Horizon	Territorial Seed Co.	5/15	DS	1'	5'	y	5.01	foot	3	Aug 10-Sep 22	Latest maturing but with larger uniform ears. High yields in a warm summer.
	Yukon Chief	Denali Seed Co.	5/15	DS	1'	5'	y	3.48	foot	3	Aug 10-Aug 31	Normally earliest, open pollinated, small ears.

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**Table 3. Vegetable Cultivar Trials, 2009, continued.**

Common Name	Cultivar	Source	Date Seeded	Transplanted	Spacing within Row	Spacing between Rows	IRT Mulch	Yield (lbs)	per	Rating	Harvest Period	Comments
<b>Swiss Chard</b>												
	Bright Lights	Johnny's Selected Seeds	5/26	DS	12"	3'	n	3.08	foot	3	Jul 24-Sep22	Multicolor stems. Tends to bolt. Leaves smaller than other chard.
14	Golden Sunrise	Johnny's Selected Seeds	5/26	DS	12"	3'	n	4.80	foot	4	Jul 24-Sep22	Orange veins and stems.
<b>Tomato</b>												
	Bush Early Girl	Tomato Growers Supply Co.	3/31	6/1	2' 6"	5'	y	1.54	plant	2.5	Jul 22-Sep 16	Late, relatively large fruit.
	Early Tanana	Denali Seed Co.	3/31	6/1	2' 6"	5'	y	4.52	plant	3	Jul 17-Sep 16	
	Prairie Fire	Tomato Growers Supply Co.	3/31	6/1	2' 6"	5'	y	2.77	plant	3	Jul 8-Sep 16	Best large tomato for the Interior in our trials. Avg. yield '04-'06 = 3.57 lb./plant.
	Siberian	Tomato Growers Supply Co.	3/31	6/1	2' 6"	5'	y	1.16	plant	2	Jul 22-Sep 16	Usually later, larger-fruited than Stupice and Sub-Arctic 25.
	Siletz	Territorial Seed Co.	3/31	6/1	2' 6"	5'	y	1.92	plant	2	Jul 8-Sep 16	Later-maturing, low-yielding large tomato.
	Sprite	Tomato Growers Supply Co.	3/31	6/1	2' 6"	5'	y	0.75	plant	2	Jul 15-Sep 16	Later-maturing, miniature tomatoes, low yields.
	Stupice	Territorial Seed Co.	3/31	6/1	2' 6"	5'	y	4.85	plant	3	Jul 8-Sep 16	Small, very early, high-yielding tomato.
	Sub-Arctic 25	Denali Seed Co.	3/31	6/1	2' 6"	5'	y	5.12	plant	3	Jul 8-Sep 16	Reliable std. early small tomato for outdoor production in the Interior.
<b>Turnip</b>												
	Tokyo Cross	W. Atlee Burpee & Co.	5/26	DS	4"	3'	n	1.54	foot	3	Jul 20-Aug 7	Nice small white turnip. High yields.
	White Lady	Stokes Seeds	5/26	DS	4"	3'	n	1.36	foot	3	Jul 20-Aug 7	Nice white turnip, similar to 'Tokyo Cross'.

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**Table 4. Vegetable Cultivars That Have Been Tested for Three Years.**

	Common Name	Cultivar	Years	3-year average			Comments
				Yield (lb)	per	Rating	
Artichoke	Imperial Star	Johnny's Selected Seeds	07, 08, 09	1.67	plant	3.8	One of two cultivars (also Green Globe) that will reliably produce artichokes when grown as an annual. Usually produces the highest yield.
Bean	Oregon 54	Nichols Garden Nursery	07, 08, 09	0.62	foot	2.2	'08 all beans performed poorly. Lots of rot.
Bean	Provider	Seedway	04, 08, 09	0.67	foot	3.3	'08 low yield but substantially higher than other beans.
Bean, Romano	Baroma Bush Romano	Nichols Garden Nursery	07, 08, 09	0.74	foot	2.0	'08 all beans performed poorly. Lots of rot.
Bean, Romano	Romano Gold	Stokes Seeds	07, 08, 09	0.42	foot	1.7	Very nice yellow romano. '08 all beans performed poorly. Lots of rot.
Bean, Yellow Wax	Carson	Johnny's Selected Seeds	07, 08, 09	0.82	foot	2.0	'07 Some rotting beans in late August. '08 all beans performed poorly. Lots of rot.
Beet	Chioggia	Johnny's Selected Seeds	07, 08, 09	0.96	foot	3.0	Heirloom, unique, multicolored red/white when cut.
Beet	Red Ace	Johnny's Selected Seeds	04, 08, 09	1.32	foot	2.3	Slight tendency to bolt.
Cabbage	Earliana	Burpee	07, 08, 09	3.27	plant	3.5	Good, small, early variety.
Cabbage	Gonzales	Johnny's Selected Seeds	07, 08, 09	2.66	plant	2.8	Early, lower yield than Earliana.
Cabbage	Savoy Express	All America Selections	07, 08, 09	2.34	plant	2.8	Tip burn, good color, some mold, very early. '08 very early, good quality.
Carrot	Thumbelina	Nichols Garden Nursery	07, 08, 09	0.74	foot	3.0	Early round carrot.
Cauliflower	Fremont	Twilley Seeds	04, 08, 09	2.21	plant	3.0	Nice cauliflower, self-wrapping.
Cauliflower	Minuteman	Stokes Seeds	07, 08, 09	2.40	plant	3.0	Earliest in '07, nice wrapper leaves, self-blanching, '08 second early.
Eggplant	Casper	Territorial Seed Co.	07, 08, 09	0.37	plant	2.0	Nice pure white eggplant, lower yield than 'Snowy' or 'Tango'. No eggplants produced mature fruit in '08. '09 eggplants were heavily infested with aphids.
Eggplant	Fairy Tale	All America Selections	07, 08, 09	0.68	plant	2.3	Pretty lavender with white streaks, high yield. No eggplants produced mature fruit in '08. '09 eggplants were heavily infested with aphids.
Eggplant	Ichiban	Garden City Seeds	07, 08, 09	0.65	plant	2.3	Medium yield. No eggplants produced mature fruit in '08. '09 eggplants were heavily infested with aphids.
Eggplant	Raveena	Park Seed	07, 08, 09	0.22	plant	1.5	Small, single-serving, green eggplant, lower yields. No eggplants produced mature fruit in '08. '09 eggplants were heavily infested with aphids.
Eggplant	Tango	Johnny's Selected Seeds	07, 08, 09	0.50	plant	2.0	Nice white eggplant, high yield. No eggplants produced mature fruit in '08. '09 eggplants were heavily infested with aphids.

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**Table 4. Vegetable Cultivars That Have Been Tested for Three Years, continued.**

	Common Name	Cultivar	Years	3-year average			Comments
				Yield (lb)	per	Rating	
Greens, Japanese Mustard	Komatsuna	Stokes Seeds	07, 08, 09	1.88	foot	2.3	Tendency to bolt.
16 Kale	Red Russian	Johnny's Selected Seeds	07, 08, 09	1.73	foot	2.3	Consistent high yields, attractive in garden, poor germination in '07.
Kale	Redbor	Territorial Seed Co.	07, 08, 09	2.55	foot	2.7	Nice kale, high yields. Poor germination in '07.
Kale	Winterbor	Johnny's Selected Seeds	07, 08, 09	3.88	foot	3.0	Very good, attractive, reliable kale.
Kohlrabi	Kolibri	Johnny's Selected Seeds	07, 08, 09	2.08	foot	3.0	Excellent purple-skinned kohlrabi.
Leek	Kilima	Nichols Garden Nursery	07, 08, 09	2.55	foot	3.0	Medium yield in '07.
Leek	King Richard	Johnny's Selected Seeds	07, 08, 09	2.71	foot	3.2	Nice leek, good yields.
Lettuce, Butterhead	Buttercrunch	Irish Eyes & Garden City Seeds	05, 08, 09	1.13	plant	2.7	2005 slight tip burn.
Lettuce, Leaf	Revolution	Territorial Seed Co.	04, 08, 09	1.12	foot	2.3	Beautiful, holds well, lower yield than others.
Lettuce, Leaf	Ruby Ruffles	Park Seed	04, 08, 09	2.51	foot	3.0	Good color. Poor germination in '08.
Lettuce, Romaine	Giant Caesar	W. Atlee Burpee & Co.	04, 08, 09	2.51	plant	2.0	Susceptible to tipburn.
Pepper	Ace	Johnny's Selected Seeds	07, 08, 09	0.78	plant	2.8	Excellent green bell pepper for the Interior. '09 peppers were heavily infested with aphids.
Pepper	Biscayne	Stokes Seeds	07, 08, 09	0.69	plant	2.2	Nice pale green sweet banana-type pepper. '09 peppers were heavily infested with aphids.
Pepper	Blushing Beauty	All America Selections	07, 08, 09	0.47	plant	2.3	Light yellow, maturing to red, bell pepper. '09 peppers were heavily infested with aphids.
Pepper	Early Jalapeno	Johnny's Selected Seeds	07, 08, 09	0.27	plant	2.3	Nice early jalapeno. '09 peppers were heavily infested with aphids. '09 vole-damaged.
Pepper	Hungarian Semi-hot Stuffing	Nichols Garden Nursery	07, 08, 09	0.44	plant	2.3	Replacement for 'Hungarian Yellow Hot Wax'. '09 peppers were heavily infested with aphids.
Pepper	Mariachi	All America Selections	07, 08, 09	0.83	plant	2.8	Mildly hot cone-shaped 4"x2" pepper. '09 peppers were heavily infested with aphids.
Pepper	Thai Dragon	W. Atlee Burpee & Co.	07, 08, 09	0.27	plant	2.0	Very hot! '09 peppers were heavily infested with aphids.
Pepper, Container	Mohawk	Park Seed	07, 08, 09	0.49	plant	2.5	Compact bell developed for containers. Grown in 2-gallon nursery containers.
Pepper, Container	Redskin	Park Seed	07, 08, 09	0.95	plant	3.0	Compact red bell developed for containers. Grown in 2-gallon nursery containers.
Pumpkin	Baby Pam	Johnny's Selected Seeds	07, 08, 09	16.24	plant	2.5	Small pie pumpkin.
Pumpkin	Connecticut Field	Germania Seed Co.	07, 08, 09	84.20	plant	3.0	Large, consistently high yield.

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**Table 4. Vegetable Cultivars That Have Been Tested for Three Years, continued.**

	Common Name	Cultivar	Years	3-year average			Comments
				Yield (lb)	per	Rating	
Pumpkin	Lumina	Nichols Garden Nursery	07, 08, 09	40.43	plant	2.7	Nice white-skinned pumpkin. None matured in '08.
Pumpkin	Orange Smoothie	All America Selections	07, 08, 09	37.07	plant	2.5	Bright orange skins when mature. Yields lower than most.
Pumpkin	Racer	Johnny's Selected Seeds	07, 08, 09	65.13	plant	3.7	Earliest to turn orange.
Pumpkin	Rock Star	Johnny's Selected Seeds	07, 08, 09	84.66	plant	3.7	Excellent large pumpkin, consistently high yields.
Pumpkin	Sorcerer	All America Selections	07, 08, 09	128.72	plant	4.0	Excellent production from a compact vine.
Radish	Cabernet	Johnny's Selected Seeds	07, 08, 09	0.39	foot	2.7	Low yield in '07.
Rutabaga	The Laurentian	Stokes Seeds	07, 08, 09	2.15	foot	2.7	Good rutabaga for the Interior.
Spinach	Melody	Stokes Seeds	07, 08, 09	0.98	foot	3.0	Most reliable for Fairbanks, resists bolting.
Squash, Summer	Papaya Pear	All America Selections	07, 08, 09	24.69	plant	3.5	Interesting papaya shape, sweet mild flavor. High yields.
Squash, Summer, Zucchini	Eight Ball	Stokes Seeds	07, 08, 09	33.95	plant	3.7	Excellent ball-shaped zucchini. High yields.
Swiss Chard	Bright Lights	Johnny's Selected Seeds	07, 08, 09	2.24	foot	2.8	Multicolor stems. Tends to bolt. Leaves smaller than other chard.
Swiss Chard	Golden Sunrise	Johnny's Selected Seeds	07, 08, 09	2.40	foot	3.0	Orange veins and stems.
Tomato	Siletz	Territorial Seed Co.	05, 08, 09	0.72	plant	1.7	Later-maturing, low-yielding large tomato.
Tomato	Stupice	Territorial Seed Co.	04, 08, 09	3.80	plant	3.0	Small, very early, high-yielding tomato.
Turnip	Tokyo Cross	W. Atlee Burpee & Co.	07, 08, 09	1.48	foot	3.0	Nice small white turnip. High yields.
Turnip	White Lady	Stokes Seeds	07, 08, 09	1.63	foot	3.0	Nice white turnip, similar to 'Tokyo Cross'.

## Seed and Plant Sources

The list does not include all possible seed and plant sources. The list reflects sources from which the Georgeson Botanical Garden received seeds/plants for the 2009 vegetable trials. No endorsement of companies should be implied by those listed, nor criticism intended of those not listed.

## Alaska Source

Denali Seed, PO Box 111425, Anchorage AK 99511, [www.denaliseed.com](http://www.denaliseed.com)  
(continued on the next page)

*Right: Winter squash grown in the Georgeson Botanical Garden in 2009. Dark green buttercup squash variety in front is BonBon; orange is Boston Marrow, and blues at top are Blue Hubbard and Heavenly Hubbard.*



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(seed & plant sources, continued)

## Commercial Wholesale and Research Sources (seeds and plants not sold directly to the public)

All-American Selections, 1311 Butterfield Rd Suite 310, Downer, IL 60515,  
[www.all-americaselections.org](http://www.all-americaselections.org)

## 18 Retail Sources of Plants/Seeds

Comstock Ferree & Co., 263 Main St., Wethersfield CT 06109 [www.comstockferre.com](http://www.comstockferre.com)

Cook's Garden, PO Box 535, Londonderry VT 05148, [www.cooksgarden.com](http://www.cooksgarden.com)

Garden City Seeds, 5045 Robinson Cyn Rd. Ellensburg, WA 98926, [www.gardencityseeds.net](http://www.gardencityseeds.net)

Germania Seed Co., 5978 N Northwest Hwy, Chicago IL 60631, [www.germaniaseed.com](http://www.germaniaseed.com)

Harris Seeds, PO Box 24966, Rochester NY 14624-0966, [www.harriseseeds.com](http://www.harriseseeds.com)

Heirloom Seeds, 287 E. Finley Dr. West Finley PA 15377, [www.heirloomseeds.com](http://www.heirloomseeds.com)

Heritage Harvest Seed, Box 40, RR3, Carman, MB R0G 0J0, Canada,  
[www.heritageharvestseed.com](http://www.heritageharvestseed.com)

John Scheepers Kitchen Garden Seeds, 23 Tulip Dr. PO Box 638, Bantam CT 06750,  
[www.kitchengardenseeds.com](http://www.kitchengardenseeds.com)

Johnny's Selected Seeds, 1 Foss Hill Rd., Albion ME 044910, [www.johnnyseeds.com](http://www.johnnyseeds.com)

Lilly Miller, 1340 Treat Blvd., Suite 650 Walnut Creek, CA 94597, [www.lillymiller.com](http://www.lillymiller.com)

Nichols Garden Nursery, 1190 N Pacific Hwy, Albany OR 97321, [www.gardennursery.com](http://www.gardennursery.com)

Park Seeds, 2 Parkton Ave, Greenwood SC 29649, [www.parkseed.com](http://www.parkseed.com)

R.H. Shumway's Seeds, 334 W Stroud St., Randolph, WI 53956, [www.rhshumway.com](http://www.rhshumway.com)

Seeds of Change, PO Box 15700, Santa Fe NM 87501, [www.seedsofchange.com](http://www.seedsofchange.com)

Seedway, 99 Industrial Rd., Elizabethtown PA 17022, [www.seedway.com](http://www.seedway.com)

Shepherd's Garden Seeds, 30 Irene St., Torrington CT 06790, [www.shepherdseeds.com](http://www.shepherdseeds.com)

Stokes Seeds, PO Box 548, Buffalo NY 14240, [www.stokeseeds.com](http://www.stokeseeds.com)

Territorial Seed Co., PO Box 157, Cottage Grove OR 97424, [www.territorial-seed.com](http://www.territorial-seed.com)

Thompson & Morgan Seed Co., Box 1308, Jackson NJ 08527-5073,  
[www.thompson-morgan.com](http://www.thompson-morgan.com)

Tomato Growers Supply Co., PO Box 60015, Fort Myers FL 33906,  
[www.tomatogrowers.com](http://www.tomatogrowers.com)

Twilley Seed, 121 Gary Rd., Hodges SC 29653, [www.twilleyseed.com](http://www.twilleyseed.com)

Vermont Bean Seed Company, 334 W. Stroud St., Randolph WI, 53956,  
[www.vermontbean.com](http://www.vermontbean.com)

Vesey's Seeds, Ltd., PO Box 9000, Calais ME 04619-6102, [www.veseys.com](http://www.veseys.com)

W. Atlee Burpee & Co., 300 Park Ave., Warminster PA 18991, [www.burpee.com](http://www.burpee.com)

*Without our dedicated volunteers,  
continued growth and success of  
the Georgeson Botanical Garden  
would not be possible.*

*A big thank you to our  
2009 volunteers!*

Walt Babula, Kathie Baum, Peggy Birkenbuel, Cheryl Berrong, Holly Buzby, Virginia Damron, Dee Daniels, Susan Dearborn, Donna Dinsmore, Jackson Drew (Eagle Scout), Steve Ewest, Anne Foster, Pauline Fusco, Jane Gregory, Jan Hanscom, Kate Hedstrom, Bette Higbie, Victoria Hill, Helen Howard, Joanne Klumb, Ted Kegler, Nancy Kilgore, Sherry Lewis, Susan Lightbody, Carol Lovejoy, Janet Matheson, Gail Mayo, Rose Meier, Marsha Munsell, Peggy O'Neal, Mary Parsons, Joanna Phillips, Ann Roberts, Barbara Rondine, Nora Rojek, Anne Rozell-Ruiz, Libby Silberling, Melody Springer, Ann Swift, Curtis Thorgaard, Terry Tomczak, Judith Treesberg, Eileen VanWyhe, Maggie Waite, Judy Weber, Suzanne Williams, Susie Zimmerman, Family Centered Services, The Herb Group, the GBG Society Board consisting of Donna Dinsmore, Virginia Damron, Mike Salzman, Curtis Thorgaard, Melody Springer, Robyn Russell, George Wilson, Ken McFarland, Diane Hunt, Ann Roberts, Ann Swift, Lisa Drew, and the many others who made the Garden Tea and Garden Faire a success.

**To join these valued people,  
call Katie DiCristina at 474-6921  
or e-mail [gbgardensuaf@gmail.com](mailto:gbgardensuaf@gmail.com)**



**SPECIAL THANKS  
TO OUR PARTNERS AND VOLUNTEERS  
WHO SUPPORT THE GARDEN WITH  
SEEDS AND OTHER DONATIONS:**

All America Selections:  
flower and vegetable seeds

Denali Seed

Driftwood Nurseries

Virginia Gauss

PanAmerican Seeds:  
flower seeds

Curtis Thorgaard

USDA Plant Introduction Stations,  
NC17, Iowa State University:  
plants and seeds



*Interns Ellen Hatch (left) and Shannon Pearce harvesting in the pumpkin patch at the Georgeson Botanical Garden, fall 2009.*

*Pumpkin flower stamen, 2009.*  
—photo by Eli Shany, from Wikimedia



## About the Agricultural and Forestry Experiment Station

The federal Hatch Act of 1887 authorized establishment of agricultural experiment stations in the U.S. and its territories to provide science-based research information to farmers. The Morrill Act established the land-grant colleges in 1862. The Alaska Agricultural Experiment Station was not originally part of the Alaska land-grant college system. In 1898, the station was established in Sitka, also the site of Alaska's first experiment farm. Subsequent branches were opened at Kodiak, Kenai, Rampart, Copper Center, Fairbanks, and Matanuska. The latter two remain as the Fairbanks Experiment Farm and the Matanuska Experiment Farm. The USDA established the Fairbanks experiment station in 1906 on a site that in 1915 provided land

for a college. In 1931, the experiment station was transferred from federal ownership to the college, and in 1935 the college was renamed the University of Alaska. Early experiment station researchers developed adapted cultivars of grains, grasses, potatoes, and berries, and introduced many vegetable cultivars appropriate to Alaska. Animal and poultry management were also important. This work continues, as does research in soils and revegetation, forest ecology and management, and rural and economic development. As the state faces new challenges in agriculture and resource management, the Agricultural and Forestry Experiment Station continues to bring state-of-the-art research information to the people of Alaska.



*Georgeson Botanical Garden intern Shona Snater harvesting cucumbers, summer 2009.*