

Vegetable Trials 2006



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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 through out the Tanana Valley.

Weather data were compiled annually from a U.S. Weather Service station, elevation 475ft (145m), located approximately 350ft (107m) west of the garden. The summer was an average growing season when comparing summary statistics, but it was anything but ordinary (Tables 1 and 2). A hard freeze and blizzard on 4 - 5 June caused significant damage to tender annual flowers and may have inhibited germination of seeded vegetables. The official temperature at the weather station reached 30°F, but temperatures at plant level in the plots was 25°F. Due to the late frost tender vegetables were not planted until June 7th and 8th. The total thaw degree days showed an average summer only because September was warm and frost was not recorded until the end of the month. Most of the monthly averages were lower than the previous two years. Rainfall was similar to previous years, but much of July and August were overcast (Table 2). In July, there were 22 continuous days of measurable precipitation.

AFES Variety Trial 2007-02

February 2007
VT 2007-02

Approximately 100 vegetable cultivars were included in the tests at the Georgeson Botanical Garden. Each cultivar is tested for at least three years as long as it is available commercially. The vegetable trials were planted from 22 May to 8 June, 2005 (Table 3.) in the Family Food Garden (map on page 16). Fairbanks silt loam soil was fertilized with 10-20-20S (4 lbs per 100 sq. ft., 195 g per sq meter) prior to planting. The cole crops, 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.

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 and radishes were covered with Remay® spun-bonded fabric to prevent root maggot damage. Harvest began the third week of June with radish and spinach and continued three times weekly through September. Data consisted of yield as well as observations of disease, off-type plants, and deformities. Cultivars for which three years of testing was completed in 2006 are listed in Table 4, along with result averages.

Note: Variety Trial reports are published by the Alaska Agricultural and Forestry Experiment Station. To simplify terminology, we may use product or equipment trade names. We are not endorsing products or firms mentioned. Publication material may be reprinted provided no endorsement of a commercial product is stated or implied. Please credit the researchers involved, the University of Alaska Fairbanks, and the Agricultural and Forestry Experiment Station.

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Table 1. Weather data from the U.S. Weather Service station located just west of the garden for years 1996 - 2006

Season	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Average temp. (°F)											
May	44	48	49	46	44	45	50	44	52	56	50
June	57	61	58	61	59	57	58	61	66	67	59
July	62	64	62	61	59	61	61	61	65	63	62
Aug	52	57	52	58	52	57	54	55	62	58	55
Sep	41	50	46	45	41	49	47	41	38	46	50
Maximum temp. (°F)	82	87	87	91	83	95	85	82	90	85	80
Growing season											
Last frost	June 5	May 25	May 13	May 29	May 15	May 13	May 12	May 24	May 8	May 5	June 4
First frost	Aug 27	Aug 19	Sep 13	Sep 11	Sep 16	Sep 24	Sep 2	Sep 13	Sep 4	Sep 2	Sep 25
Frost free days	83	86	123	105	124	134	113	112	119	120	112
Thaw degree days*	2811	3656	3278	3383	2943	3439	2980	3123	3751	3767	3523
Rainfall (inches)	8.73	5.86	9.87	8.66	8.55	5.80	9.35	9.91	5.6	10.59	7.86
Previous winter season											
Minimum temp. (°F).	-48	-54	-48	-54	-50	-27	-36	-35	-45	-50	-49
Snowfall (inches)	47.8	38.4	30.6	31.6	62.2	39.9	39.7	33.2	51.7	70.9	51.8

Table 2. Weather data summaries for growing season years 2004 - 2006

	May			June			July			August			September		
Temperature °F	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006	2004	2005	2006
Average daily max.	64	68	63	80	73	69	76	74	71	75	69	65	47	54	61
Monthly high	76	77	75	90	84	80	89	81	83	84	85	72	61	66	69
Average daily min.	40	43	38	53	50	48	53	51	52	49	46	45	30	38	38
Monthly low	30	31	27	42	43	30	44	39	46	35	33	36	26	28	29
Rainfall (inches)	1.67	1.66	0.20	0.42	2.97	1.15	1.21	4.09	3.42	0.50	0.39	2.48	1.26	1.48	0.61
* Thaw degree days = Cumulative (1 May - 30 Sep) average daily temperature minus 32 °F baseline.															

Table 3. Vegetable variety trials for 2006

Vegetable	Cultivar	Source	Date	Date	Spacing		IRT Mulch	Yield (lbs)	Per	Rating	Harvest Period	Comments
			Seeded	Transplant	Within Row	Between Rows						
Artichoke												
	Imperial Star	Johnnys	4/6	6/7	2'	2' rb	y	1.54	plant	5	7 Aug - 15 Sep	One of two cultivars (also Green Globe) that reliably produce artichokes when grown as an annual. Usually has the highest yield
Bean												
Green	Contender	Vermont Bean	5/25	DS	1"	3'	n	0.10	foot	3	7 Aug - 28 Aug	Reliable variety for Fairbanks
Romano	Roma II	Territorial	5/25	DS	1"	3'	n	0.01	foot	4	7 Aug - 14 Sep	Reliable green romano
Romano	Romano Gold	Stokes	5/25	DS	1"	3'	n	0.17	foot	3	7 Aug - 9 Sep	Very nice yellow romano
Yellow Wax	Rocdor	Johnny's	5/25	DS	1"	3'	n	0.46	foot	3	7 Aug - 14 Sep	Reliable variety for Fairbanks
Beet												
	Boltardy	Denali	5/25	DS	3-4"	2'	n	0.15	foot	2		
	Chioggia	Johnny's	5/25	DS	3-4"	2'	n	0.23	foot	3	14 Jul- 26 Jul	Good bright color
	Cylindra	Lily Miller	5/25	DS	3-4"	2'	n	0.29		3		
	Ruby Queen	Denali	5/25	DS	3-4"	2'	n	0.23		3		
Broccoli												
	Early Dividend	Pinetree	4/18	5/22	16"	3'	n	0.20	plant	3	23 Jun - 21 Jul	Good, new, early variety; lots of laterals
	Marathon	Johnny's	4/18	5/22	16"	3'	n	0.36	plant	3	12 Jul - 21 Jul	Large, high yields
	Shogun	W. Coast	4/18	5/22	16"	3'	n	0.58	plant	3	14 Jul - 21 Jul	Huge. Can reach 3-4lbs, 14" across in Fairbanks
Brussels Sprouts												
	Bubbles Hybrid	Territorial	3/14	5/22	24"	3'	n	0.74	plant	2	26 Jul - 12 Sep	
	Jade Cross	Stokes	3/14	5/22	24"	3'	n					No Data 2006
Cabbage												
	Alaska 6467	AK Crop	4/21	5/22	16"	3'	n	4.02	plant	2	16 Aug - 23 Aug	
	Earliana	W. Burpee	4/18	5/22	16"	3'	n	1.74	plant	3	1 Jul - 13 Jul	Good, small, early variety
	Ruby Ball Hybrid	Territorial	4/18	5/22	16"	3'	n	2.73	plant	3	2 Aug - 9 Aug	

rb - Artichokes, Eggplant and Peppers were grown in raised beds 3 ft wide x 10 ft long x 1.5 ft high

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 variety trials for 2006

Vegetable	Cultivar	Source	Date	Date	Spacing		IRT Mulch	Yield (lbs)	Per	Rating	Harvest Period	Comments
			Seeded	Transplant	Within Row	Between Rows						
	Savoy Express	AAS	3/14	5/23	16"	3'	n	1.97	plant	3	7 Jul	Tip burn, good color, some mold, very early
	Dynamo	Nichols	4/18	5/22	16"	3'	n	2.97	plant	4	25 Jul - 27 Jul	Very nice, midseason cabbage
Carrot												
	Little Finger	W. Burpee	5/25	DS	1"	3'	n	0.52	foot	3	25 Aug	Poor germination in '06
	Minicor	Johnny's	5/25	DS	1"	3'	n	0.39	foot	3	6 Aug	Poor germination in '06
	Nelson	Territorial	5/25	DS	1"	3'	n	0.27	foot	3	25 Aug	Excellent flavor, big n' tasty, poor germination in '06
	Purple Haze	AAS	5/25	DS	1"	3'	n	0.26	foot	2	15 Aug - 26 Aug	Poor germination in '06
	Rainbow	Thom. & Morgan	5/25	DS	1"	3'	n	0.35	foot	3	15 Aug - 22 Aug	Poor germination in '06
Cauliflower												
	Amazing	Park	4/18	5/22	16"	3'	n	1.88	plant	3	30 Jul - 20 Aug	Holds well, large wrapper leaves make it self blanching
	Andes	Vesey's	4/18	5/22	16"	3'	n	2.50	plant	4	27 Jul - 18 Aug	Consistently high yields, large heads
	Snow Crown	Pinetree	4/18	5/22	16"	3'	n	1.24	plant	3	11 Jul - 8 Jul	Early
Celery												
	Early Dell	Seeds of Change	3/14	6/7	4-6"	3'	n					No Data '06
	Utah 52-70R	Stokes	3/14	6/7	4-6"	3'	n					No Data '06
Cucumber												
	Early Pride	W. Burpee	5/2	6/7	2.5'	5'	y	12.5	plant	2	19 Jul - 30 Aug	Slicing
	Eureka	Thom. & Morgan	5/2	6/7	2.5'	5'	y	2.34	plant	2	24 Jul - 23 Aug	Very low yield
	Fanfare	O. Twilley	5/2	6/7	2.5'	5'	y	4.79	plant	2	24 Jul - 15 Sep	Slicing
	H-19 Little Leaf	Johnny's	5/2	6/7	2.5'	5'	y	10.1	plant	3	19 Jul - 15 Sep	Excellent pickling; small leaves make it easy to pick
	Northern Pickling	W. Burpee	5/2	6/7	2.5'	5'	y	14.3	plant	3	19 Jul - 15 Sep	Pickling
	Salad Bush	W. Burpee	5/2	6/7	2.5'	5'	y	7.12	plant	2	26 Jul - 23 Aug	Slicing, our favorite.
	Sweet Success	Shumway's	5/2	6/7	2.5'	5'	y	22.9	plant	3	19 Jul - 23 Aug	Slicing, consistant high yields
	Sweeter Yet	Vesey's	5/2	6/7	2.5'	5'	y	4.98	plant	2	24 Jul - 21 Aug	Excellent large fruited cucumber

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Eggplant												
	Bride	Stokes	3/14	6/7	1'	2' rb	y	0.14	plant	2	7 Aug - 12 Sep	Low yield compared to others
	Orient Express	Johnny's	3/14	6/7	1'	2' rb	y	0.86	plant	3	12 Jul - 12 Sep	Early black oriental type, Highest yields
	Snowy	Johnny's	3/14	6/7	1'	2' rb	y	0.24	plant	2	12 Jul - 16 Aug	Nice white oriental type, early, slightly lower yield than average
	Ichiban	Park	3/14	6/7	1'	2' rb	y	0.28	plant	2	12 Jul - 12 Sep	Medium yield
Greens												
Asian	Yukina Savoy	Johnny's	5/23	DS	6-8"	3'	n	0.18	foot	2	14 Jul	Tendency to bolt in our environment.
Oriental	Mibuna 'Green Spray'	Johnny's	5/23	DS	6-8"	3'	n	1.04	foot	2	14 Jul	Tendency to bolt in our environment.
Oriental (Pac Choi)	Black Summer	Johnny's	5/23	DS	6-8"	3'	n		foot	3	11 Jul - 28 Jul	
Oriental (Pac Choi)	Joi Choi	Johnny's	5/23	DS	6-8"	3'	n	0.97	foot	3	16 Aug - 9 Sep	
Kale												
	Red Russian	W. Coast	5/23	DS	12-16"	3'	n	0.83	foot	3	24 Jul - 9 Sep	Consistant high yields, attractive in garden
	Winterbor	Territorial	5/23	DS	12-16"	3'	n	0.73	foot	2	24 Jul -9 Sep	Very good, attractive, reliable kale
Kohlrabi												
	Kolibri	Johnny's	5/23	DS	3-6"	3'	n	1.47	foot	3	24 Jul - 21 Aug	Excellent purple skinned kohlrabi
	White Vienna	Lily Miller	5/23	DS	3-6"	3'	n	0.77	foot	2	24 Jul - 21 Aug	lower yields than Kolibri
Leek												
	Arena	Vesey's	3/7	6/7	3"	3'	n	1.79	foot	3	7 Aug-15 Sep	Nice leek, high yields
	Baby Lincoln	Kitchen	3/7	6/7	3"	3'	n	2.69	foot	3	7 Aug	
	King Richard	W. Coast	3/7	6/7	3"	3'	n	0.82	foot	3	7 Aug - 15 Sep	Nice leek, Good yields
Pea												
	Mr. Big	W. Burpee	5/25	DS	1"	3'	n	0.85	foot	3	21 Jul - 15 Sep	Really big, but difficult to identify mature pods
	Novella II	Garden C.	5/25	DS	1"	3'	n	0.21	foot	2	28 Jul - 15 Sep	Easy to pick, no trellising required
Snap	Cascadia	Stokes	5/25	DS	1"	3'	n	0.68	foot	3	21 Jul - 15 Sep	Nice short vined sugar snap type

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Vegetable	Cultivar	Source	Date	Date	Spacing		IRT Mulch	Yield (lbs)	Per	Rating	Harvest Period	Comments
			Seeded	Transplant	Within Row	Between Rows						
Snow	Snow Green	Johnny's	5/25	DS	1"	3'	n	0.43	foot	2	26 Jul - 15 Sep	Snow pea
Pepper												
	Fajita Bell	Territorial	3/28	6/7	1'	2' rb	y	0.89	plant	2	4 Aug - 9 Sep	Medium hot bell pepper, large thick walls, dark green.
	Giant Marconi		3/28	6/7	1'	2' rb	y	0.67	plant	3	2 Aug - 12 Sep	Big, bright green; good in early in season, size decreased later
	Gypsy	Territorial	3/28	6/7	1'	2' rb	y	0.56	plant	3	2 Aug - 9 Sep	Yellow sweet banana; a few scars
	Habanero	Territorial	3/28	6/7	1'	2' rb	y	0.00	plant	1		Late maturing; not a good choice for the interior
	Holy Mole	AAS	3/28	6/7	1'	2' rb	y	0.87	plant	2	30 Jul - 12 Sep	
	Hungarian Wax	W. Burpee	3/28	6/7	1'	2' rb	y	0.53	plant	3	2 Aug - 12 Sep	Nice, light yellow
	New Ace	Pinetree	3/28	6/7	1'	2' rb	y	0.75	plant	2	4 Aug - 9 Sep	Sweet bell
	Senorita	Territorial	3/28	6/7	1'	2' rb	y	0.47	plant	3	2 Aug - 12 Sep	Mild jalapeno
	Blushing Beauty	AAS	3/28	6/7	1'	2' rb	y	0.57	plant	3	14 Aug - 9 Sep	Sweet bell, All America Selection; nice color, not as tasty as other bell peppers
Pumkin												
	Connecticut Field	Stokes	4/25	6/8	7'	7'	y	162	plant	3	1 Sep	Large, consistently high yield, very good, large, 3rd earliest
	New England Pie	Johnny's	4/25	6/8	7'	7'	y	62	plant	3	1 Sep	Small pie type
	Orange Smoothie		4/25	6/8	7'	7'	y	31	plant	2	1 Sep	Lowest yield in trials, bright orange skins when mature. 4th earliest
	Racer	Johnny's	4/25	6/8	7'	7'	y	92	plant	2	1 Sep	Earliest to turn orange
	Rock Star	Johnny's	4/25	6/8	7'	7'	y	189	plant	3	1 Sep	Usually largest pumpkin, tall fruit, 2nd earliest
	Sorcerer		4/25	6/8	7'	7'	y	92	plant	3	1 Sep	Latest large pumpkin
Radish												
	Easter Egg	Johnny's	5/23	DS	1"	2'	n	0.35	foot	3	21 Jun - 27 Jun	Split in one. Some blemishes. 2005 nice color range but lower yields than other cherry types
	Sora	Johnny's	5/23	DS	1"	2'	n	0.69	foot	3	21 Jun - 11 Jul	Nice color, good shape, few blemishes, good yield
Daikon	Minowase	Denali	5/23	DS	1"	2'	n	0.00	foot	1		2006 no yield, bolted
Daikon	Miyashige	Johnny's	5/23	DS	2"	2'	n	0.00	foot	2		2006 no yield, bolted

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			Seeded	Transplant	Within Row	Between Rows						
Daikon	R 71804	Johnny's	5/23	DS	2"	2'	n	0.00	foot	1		2006 no yield, bolted
Rutabaga												
	Joan	Johnny's	5/23	DS	5"	3'	n	0.10	foot	1	26 Jul	2006 bolted, low yield
Spinach												
	Melody	Stokes	5/23	DS	4"	5'	n	0.35	foot	3	7 Jul	Most reliable for Fairbanks, resists bolting, few holes or yellowed edges.
	Tyee	Stokes	5/23	DS	4"	5'	n	0.19	foot	3	7 Jul	Good variety for Fairbanks; good looking, only a few holes, dark green; big, STRONG stems.
Summer Squash												
	Early Golden Crookneck	Thom. & Morgan	5/2	6/7	3'	5'	y	0.84	plant	1	26 Jul	Susceptible to blossom end rot.
	Magda	Park	5/2	6/7	3'	5'	y	27.4	plant	3	11 Jul - 15 Sep	
	Papaya Pear	AAS	5/2	6/7	3'	5'	y	28.3	plant	4	11 Jul - 15 Sep	Interesting papaya shape, sweet mild flavor
	Sunray	W. Burpee	5/2	6/7	3'	5'	y	3.20	plant	3	26 Jul - 15 Sep	Susceptible to blossom end rot.
Zucchini	Eight Ball	Stokes	5/2	6/7	3'	5'	y	20.2	plant	3	24 Jul - 15 Sep	Round zucchini
Zucchini	Radiant	Stokes	5/2	6/7	3'	5'	y	27.9	plant	3	11 Jul - 15 Sep	
Zucchini	Raven	Johnny's	5/2	6/7	3'	5'	y	22.6	plant	3	11 Jul - 15 Sep	Excellent dark green zucchini
Winter Squash												
	Bon Bon	AAS	4/25	6/8	4'	3'	y	10.7	plant	3	1 Sep	Sweet yellow orange flesh, mealy, coarse, potato-like texture
	Cornell's Bush Delicata	AAS	4/25	6/8	4'	3'	y	1.32	plant	2	1 Sep	Low yield probably due to daylength inhibiting flowering. Requires 16 hr dark period for 14 days before transplanting in field to induce production of female flowers.
	Tay Belle	Stokes	4/25	6/8	4'	3'	y	3.73	plant	3	1 Sep	Day length sensitive. Requires 16 hr dark period for 14 days before transplanting to field to induce production of female flowers.

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			Seeded	Transplant	Within Row	Between Rows						
Swiss Chard												
	Bright Lights	AAS	5/23	DS	8-12"	3'	n	3.00	foot	3	24 Jul - 5 Sep	Range of colors, leaves smaller than other chard.
	Bright Yellow	Johnny's	5/23	DS	8-12"	3'	n	1.27	foot	3	24 Jul - 5 Sep	Nice chard, lower yield than 'Bright Lights'
Turnip												
	Shogoin	Lilly Miller	5/23	DS	4"	3'	n	0.17	foot	1	12 Aug	Tendency to bolt in our environment.
	Tokyo Cross	Pinetree	5/23	DS	4"	3'	n	2.67	foot	3	12 Aug	Nice small white turnip, high yields

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Vegetable trials at the Ohlsen family food garden, Georgeson Botanical Garden

Table 4. Results for Cultivars that completed 3 years of testing in 2006.

Vegetable	Cultivar	Source	Spacing		IRT Mulch	Average Yield (lbs)	Per	Average Rating	Comments
			Within Row	Between Rows					
Artichoke									
	Imperial Star	Johnny's	2'	2' rb	y	1.2	plant	4.3	One of two cultivars (also Green Globe) that reliably produce artichokes when grown as an annual; usually produces the highest yield
Bean									
Green	Contender	Vermont Bean	1"	3'	n	0.87	foot	3	Reliable variety for Fairbanks
Romano	Roma II	Territorial	1"	3'	n	0.55	foot	4	Reliable green romano
Romano	Romano Gold	Stokes	1"	3'	n	1.28	foot	3	Very nice yellow romano
Yellow Wax	Rocdor	Johnny's	1"	3'	n	0.89	foot	3	Reliable variety for Fairbanks
Beet									
	Chioggia	Johnny's	3-4"	2'	n	1.28	foot	3	Good bright color
Broccoli									
	Early Dividend	Pinetree Garden	16"	3'	n	0.35	plant	2.7	Good, new, early variety; lots of laterals
	Marathon	Johnny's	16"	3'	n	1.41	plant	3	Large, high yields
	Shogun	West Coast	16"	3'	n	1.43	plant	3	Huge; can reach 3-4 lbs, 14" across in Fairbanks; in 2005, heads were harvested by thieves
Cabbage									
	Earliana	Burpee	16"	3'	n	2.13	plant	3	Good, small, early variety
	Savoy Express	AAS	16"	3'	n	1.71	plant	2.7	Tip burn, good color, some mold, very early
	Dynamo	Nichols	16"	3'	n	3.59	plant	3.7	Very nice, midseason cabbage
Carrot									
	Little Finger	Burpee	1"	3'	n	1.73	foot	3	poor germination in '06
	Minicor	Johnny's	1"	3'	n	1.57	foot	2.7	poor germination in '06
	Nelson	Territorial	1"	3'	n	2.44	foot	3.7	Excellent flavor, big n' tasty, poor germination in '06
Cauliflower									
	Andes	Vesey's	16"	3'	n	3.76	plant	3.3	Consistently high yields, large heads
	Snow Crown	Pinetree	16"	3'	n	2.11	plant	3	Early
Cucumber									
	Early Pride	Burpee	2.5'	5'	y	20.21	plant	2.3	Slicing
	Fanfare	Twilley	2.5'	5'	y	13.14	plant	2	Slicing
	H-19 Little Leaf	Johnny's	2.5'	5'	y	21.52	plant	3	Excellent pickling cuke; small leaves make it easy to pick

Table 4. Results for Cultivars that completed 3 years of testing in 2006.

Vegetable	Cultivar	Source	Spacing		IRT Mulch	Average Yield (lbs)	Per	Average Rating	Comments
			Within Row	Between Rows					
	Northern Pickling	Burpee	2.5'	5'	y	20.25	plant	3	Pickling
	Sweet Success	Shumway's	2.5'	5'	y	24.76	plant	3.3	Slicing, consistant high yields
	Sweeter Yet	Vesey's	2.5'	5'	y	26.93	plant	3	Excellent large fruited cucumber
Eggplant									
	Bride	Stokes	1'	2' rb	y	0.24	plant	2	Low yield compared to others
	Orient Express	Johnny's	1'	2' rb	y	1.35	plant	3.3	Early black oriental type; highest yields
	Snowy	Johnny's	1'	2' rb	y	0.77	plant	2.3	Nice white oriental type, early, slightly lower yield than average
	Ichiban	Park	1'	2' rb	y	0.9	plant	2.3	Medium yield
Greens									
Asian	Yukina Savoy	Johnny's	6-8"	3'	n	0.18	foot	1.5	Bolted 2005
Oriental	Mibuna 'Green Spray'	Johnny's	6-8"	3'	n	1.04	foot	1.5	Bolted 2005
Kale									
	Red Russian	West Coast	12-16"	3'	n	4.29	foot	3	Consistant high yields, attractive in garden
	Winterbor	Territorial	12-16"	3'	n	4.55	foot	2.7	Very good, attractive, reliable kale
Kohlrabi									
	Kolibri	Johnny's	3-6"	3'	n	2.66	foot	3	Excellent purple skinned kohlrabi
Leek									
	Arena	Vesey's	3"	3'	n	3.51	foot	3	Nice leek, High yields
	King Richard	West Coast	3"	3'	n	2.17	foot	3	Nice leek, Good yields
Pea									
	Mr Big	Burpee	1"	3'	n	0.73	foot	2.7	Really big, but difficult to identify mature pods
	Novella II	Garden City	1"	3'	n	0.5	foot	2.7	Easy to pick, doesn't require trellising
Pea, Snap									
	Cascadia	Stokes	1"	3'	n	0.73	foot	2.7	Nice short vined sugar snap type.
Pea, Snow									
	Snow Green	Johnny's	1"	3'	n	0.99	foot	3.3	Snow Pea

Table 4. Results for Cultivars that completed 3 years of testing in 2006.

Vegetable	Cultivar	Source	Spacing		IRT Mulch	Average Yield (lbs)	Per	Average Rating	Comments
			Within Row	Between Rows					
Pepper									
	Fajita Bell	Territorial	1'	2' rb	y	1.74	plant	3	Medium hot bell pepper, large thick walls, dark green.
	Giant Marconi		1'	2' rb	y	1.38	plant	2.7	2004 big, bright green; good in early part of season, size decreased in later part
	Gypsy	Territorial	1'	2' rb	y	2.01	plant	3	Yellow sweet banana; a few scars
	Habanero	Territorial	1'	2' rb	y	0.01	plant	1	Late maturing, not a good choice for the interior
	Hungarian Wax	Burpee	1'	2' rb	y	1.24	plant	2.7	Nice, light yellow
	New Ace	Pinetree Garden	1'	2' rb	y	1.24	plant	2.5	Sweet bell
	Senorita	Territorial	1'	2' rb	y	1.07	plant	2.7	Mild jalapeno
	Blushing Beauty	AAS	1'	2' rb	y	1.02	plant	3	Sweet bell, All America Selection, nice color, not as tasty as other bell peppers
Pumpkin									
	Connecticut Field	Stokes	7'	7'	y	204.94	plant	3	Large, consistently high yield 2005; very good large pumpkin, average weight 19 pounds, 3rd earliest
	New England Pie	Johnny's	7'	7'	y	78.37	plant	3	Small pie type, 2005 average 4.5 pounds
	Orange Smoothie		7'	7'	y	39.6	plant	2	Lowest yield in trials, bright orange skins when mature. 2005 all dark green when harvested; 4th earliest pumpkin
	Racer	Johnny's	7'	7'	y	97.55	plant	2.7	Earliest to turn orange
	Rock Star	Johnny's	7'	7'	y	170.59	plant	3.3	2005 Average weight 34 pounds; largest pumpkin, tall fruit; 2nd earliest large pumpkin
	Sorcerer		7'	7'	y	119.93	plant	2.3	2005 Average weight 20 lbs, latest large pumpkin
Radish									
	Easter Egg	Johnny's	1"	2'	n	0.61	foot	3	Split in one. Some blemishes. 2005 nice range of colors, but lower yields than other cherry types
	Sora	Johnny's	1"	2'	n	1.84	foot	3	Nice color, good shape, few blemishes, good yields
Radish, Daikon									
	Miyashige	Johnny's	1"	2'	n	1.11	foot	2	2005, yield reduced because of losses from root maggots, disease; tendency to bolt; 2006 no yield, bolted
Rutabaga									
	Joan	Johnny's	5"	3'	n	0.99	foot	1.7	2005 Yield reduced by root maggots and disease; 2006 bolted, low yield

Table 4. Results for Cultivars that completed 3 years of testing in 2006.

Vegetable	Cultivar	Source	Spacing		IRT Mulch	Average Yield (lbs)	Per	Average Rating	Comments
			Within Row	Between Rows					
Spinach									
	Melody	Stokes	4"	3'	n	0.65	foot	3	Most reliable for Fairbanks, resists bolting, not many holes or yellowing or edges.
	Tyee	Stokes	4"	3'	n	0.65	foot	3	Good variety for Fairbanks, looks real good, only a few holes, dark green. Big, STRONG stems.
Squash, Summer									
	Papaya Pear	AAS	3'	5'	y	31.45	plant	3.3	Interesting papaya shape, sweet mild flavor
	Sunray	Burpee	3'	5'	y	13.93	plant	3	2005 susceptible to blossom end rot.
Squash, Summer (Zucchini)									
	Eight Ball	Stokes	3'	5'	y	42.17	plant	3.3	Round zucchini
	Raven	Johnny's	3'	5'	y	32	plant	3.3	Excellent dark green zucchini
Squash, Winter									
	Cornell's Bush Delicata	AAS	4'	5'	y	1.5	plant	2	Low yield probably due to daylength inhibiting flowering. Requires 16 hr dark period for 14 days prior to transplanting in field to induce production of female flowers.
Swiss Chard									
	Bright Lights	AAS	8-12"	3'	n	2.99	foot	2.7	By 8/4 all were bolting; leaves smaller than other chard.
	Bright Yellow	Johnny's	8-12"	3'	n	1.85	foot	3	Nice chard, lower yield than 'Bright Lights'
Turnip									
	Shogoin	Lilly Miller	4"	3'	n	0.27	foot	1.3	Tendency to bolt in our environment.
	Tokyo Cross	Pinetree	4"	3'	n	1.65	foot	3	Nice small white turnip; high yields

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 has received seeds/plants. No endorsement of companies should be implied by those listed, nor criticism intended of those not listed.

Alaska Sources

Ann's Greenhouses, 780 Sheep Creek Rd, Fairbanks AK 99709
Alaska Greenhouse, 1301 Muldoon Rd, Anchorage AK 99514
Clair's Cultivations, 1364 Esro Rd, Fairbanks AK 99712
Denali Seed, PO Box 111425, Anchorage AK 99511, www.denaliseed.com
Dinkel's Fairview Nursery, HC 31 Box 5193, Wasilla AK 99687
Driftwood Nurseries, 7.2 Mile Chena Hot Springs Rd.,
PO Box 10462 Fairbanks, AK 99710
Hawk's Farm & Garden Center, 12 Mile Richardson Hwy PO Box 55759,
North Pole AK 99705
Holm Town Nursery, PO Box 71565, Fairbanks AK 99707
Plant Kingdom, 620 Fiedeler Rd, Fairbanks AK 99709
Risse Greenhouses, 981 Risse Rd, Fairbanks AK 99712
Seeds of Alaska, Box 3127, Kenai AK 99611
Washburn Farm Nursery, PO Box 823, Palmer AK 99645
Woodland Farms, Mile 311 Parks Hwy, Nenana AK

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

(AAS) All American Selections, 1311 Butterfield Rd Suite 310, Downer's Grove IL 60515, www.all-americanselections.org
Ball Seed Co., PO Box 335, West Chicago IL 60185 (wholesale only),
www.ballseed.com
EuroAmerican Propagators (Proven Winners), PO Box 289, Bonsall CA 92003,
www.euroamprop.com
Fischer USA, 6899 Winchester Circle Suite 102, Boulder CO 80301,
www.fischerusa.com
Goldsmith, PO Box 1349, Gilroy CA 95021, www.goldsmithseeds.com
Green Leaf (Yoder Bros.) 2369 Old Philadelphia Pike, Lancaster PA 17602,
www.green-leaf-ent.com
Kieft Seeds Holland, Elbaweg 35, 1607 MN Venhuizen, www.kieftseeds.com
Lawyer Nursery, 950 Hwy 200 W, Plains MT 59859, www.lawyer nursery.com
Oglevee Ltd., 152 Oglevee Ln, Connellsville PA 15425, www.oglevee.com
PanAmerican Seeds, PO Box 438, West Chicago IL 60186, www.panamseed.com
The Flower Fields (Yoder Bros & Ecke Ranch), www.theflowerfields.com
USDA Plant Introduction Stations- NC7, Ames IA,
www.ars-grin.gov/ars/MidWest/Ames

Garden Societies and Organizations with Seed Exchanges and Sales for Members Only

Alaska Native Plant Society, PO Box 141613, Anchorage AK 99514
American Horticultural Society, PO Box 6118, Alexandria VA 22308,
www.ahs.org
North American Rock Garden Society, PO Box 67, Millwood NY 10546,
www.nargs.org
Hardy Fern Foundation, Box 60034, Richmond Beach WA 98160,
www.hardyferns.org
New England Wildflower Society, 180 Hemenway Rd, Framingham MA 01701,
www.newfs.org

Retail Sources of Plants/Seeds

Agway, Inc. Seed Plant, 1225 Zeager Rd, Elizabethtown PA 17022
Alberta Nurseries & Seeds Ltd., PO Box 20, Bowden, Canada AB TOM 0K0
Applewood Seed Co., 5380 Vivian St, Aruada CO 80002,
www.applewoodseed.com
B&D Lilies, PO Box 2007, Port Townsend WA 98368, www.bdlilies.com
Bear Creek Nursery, PO Box 411, Northport WA 99157,
www.BearCreekNursery.com
Bluebird Nursery, Inc., PO Box 460, Clarkson NE 68629,
www.bluebirdnursery.com
Carolina Seeds, PO Box 2658 Hwy 105 Bypass, Boone NC 28607,
www.carolinaseeds.com
Clause Seed, 100 Breen Rd, San Juan Bautista CA 95045
Connell's Dahlias, 10616 Waller Rd E, Tacoma WA 98446,
www.connells-dahlias.com
Cook's Garden, PO Box 535, Londonderry VT 05148,
www.cooksgarden.com
Daehnfeldt, PO Box 947, Albany OR 97321, www.daehnfeldt.com
Dutch Gardens, Inc., PO Box 2037, Lakewood NJ 08701, www.dutchgardens.nl
F.W. Schumacher Co., Inc., 36 Spring Hill Rd, Sandwich MA 02563,
www.treeshrubseed.com
Farmer Seed & Nursery Co., 818 NW 4th St, Fairbault MN 55021,
www.farmerseed.com
Ferry-Morse Seed Co., PO Box 4938, Modesto CA 95352, www.ferry-morse.com
Fred C. Gloeckner & Co., Inc., 15 E 26th St, New York NY 10010,
www.fredgloeckner.com
Gardens North, 5984 Third Line Rd N, North Gower ON K0A 2T0 Canada,
www.gardensnorth.com
Germania Seed Co., 5978 N Northwest Hwy, Chicago IL 60631,
www.germaniaseed.com
Gilbert H. Wild & Sons, P O Box 338, Sarcoxie MO 64862, www.gilberthwild.com
H.G. German Seeds, Inc., PO Box 398, Smethport PA 16749
Harris Seeds, PO Box 24966, Rochester NY 14624-0966, www.harriseseeds.com

Henry Field's Seed and Nursery Co., 415 N Burnett, Shenandoah IA 51602,
www.HenryFields.com
Home Harvest Seeds, 3807 Bank St, Baltimore MD 21224,
www.homeharvestseeds.com
Irish Eyes & Garden City Seeds, PO Box 307, Thorp WA 98946,
www.irish-eyes.com
J.L. Hudson, PO Box 1058H, Redwood City CA 94064, www.jlhudsonseeds.net
Jackson & Perkins, PO Box 1028, Medford OR 97501,
www.jacksonandperkins.com
John Scheepers Kitchen Garden Seeds, PO Box 638, Bantam CT 06750,
www.kitchengardenseeds.com
Johnny's Selected Seeds, 1 Foss Hill Rd, Albion ME 044910,
www.johnnyseeds.com
Jung Quality Seeds, 335 S High St, Randolph WI 53957, www.jungseed.com
K. Van Bourgondien & Sons, Inc., PO Box 1000, Babylon NY 11702,
www.dutchbulbs.com
Lamb Nurseries, 101 E Sharp Ave, Spokane WA 99202
McClure & Zimmerman, PO Box 368, Friesland WI 53935,
www.mzbulb.com
Milk Ranch Specialty Potatoes LLC, 20094 Hwy 149, Powderhorn CO 81243,
www.milkranch.com
Nichols Garden Nursery, 1190 N Pacific Hwy, Albany OR 97321,
www.gardennursery.com
Nourse Farms, Inc., Box 485 RFD, South Deerfield MA 01373,
www.noursefarms.com
Park Seeds, 2 Parkton Ave, Greenwood SC 29649, www.parkseed.com
Peter de Jager Bulb Co., PO Box 2010, So Hamilton MA 01982
Pinetree Garden Seeds, PO Box 300, New Gloucester ME 04260,
www.superseeds.com
Richters, 357 Highway 47, Goodwood ON LOC 1A0 Canada, www.richters.com
R.H. Shumway's Seeds, 334 W. Stoud St, Randolph WI 53956-1274
Roseraie at Bayfields, Box R, Waldoboro ME 04572, www.roseraie.com
Royal Sluis, Inc., 1293 Harkins Rd, Salinas CA 93901

Rupp Seeds, Inc., 17919 County Rd B, Wauseon OH 43567, www.ruppseeds.com
Seeds of Change, PO Box 15700, Santa Fe NM 87501, www.seedsofchange.com
Seeds of Distinction, PO Box 86 Station A, Toronto ON M9C 4V2 Canada,
www.seedsofdistinction.com
Seedway, Inc., PO Box 250, Hall NY 14463, www.seedway.com
Select Seeds, 180 Stickney Hill Rd, Union CT 06076, www.selectseeds.com
Seymour's Selected Seeds, PO Box 1346, Randolph WI 53956,
www.seymourseeduk.com
Shepherd's Garden Seeds, 30 Irene St, Torrington CT 06790,
www.shepherdseeds.com
Smith Nursery Co., PO Box 515, Charles City IA 50616
Song Sparrow Perennial Farm, 13101 East Rye Rd, Avalon WI 53505,
www.songsparrow.com
Stokes Seeds, PO Box 548, Buffalo NY 14240, www.stokeseeds.com
T & T Seeds, Ltd., Box 1710, Winnipeg MB R3C 3P6 Canada, www.ttseeds.mb.ca
Territorial Seed Co., PO Box 157, Cottage Grove OR 97424,
www.territorial-seed.com
Thompson & Morgan Seed Co., Box 1308, Jackson, NJ,
www.thompson-morgan.com
Twilley Seeds, 121 Gary Rd, Hodges SC 29653, www.twilleyseed.com
Valley Nursery, Box 4845, Helena MT 59604
Van Bloem USA, Inc., 500 Pendley Industrial Park, Cumming GA 30130
Vaughan's Seed Co., 5300 Katrine Ave, Downers Grove IL 60515
Vermont Bean Seed Co., Garden Ln, Fair Haven VT 05743, www.vermontbean.com
Vesey's Seeds, Ltd., PO Box 9000, Calais ME 04619-6102, www.veseys.com
W. Atlee Burpee & Co., 300 Park Ave, Warminster PA 18991, www.burpee.com
Waushara Gardens, N 5491 5th Dr, Plainfield WI 54966
Wayside Gardens, 1 Garden Ln, Hodges SC 29695, www.waysidegardens.com
West Coast Seeds, 3925 64 St, Delta BC V4K3N2 Canada,
www.westcoastseeds.com
White Flower Farm, PO Box 50, Litchfield CT 06759, www.whiteflowerfarm.com
Wildseed, Inc., PO Box 308, Eagle Lake TX 77434

Special thanks to our partners and volunteers who support the Garden with seeds and other donations.

All America Selections (flower and vegetable seeds)

Goldsmith Seeds (flower seeds)

Kieft Seeds, flower seeds

PanAmerican seeds, flower seeds

Risse Greenhouses (plants and supply discounts)

USDA Plant Introduction Stations, NC7, Iowa State University (plants and seeds)

GBG Volunteers

Without our dedicated volunteers, continued growth and success of the Georgeson Botanical Garden would not be possible. A big thank you to our 2006 volunteers.

To join these valued people, call Jan Hanscom at
474-6921

Marilyn Askelin	Dee King	Sarah Thornton,
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Dedication at the family food garden, where a memorial donation will provide for student internships and renovations.

The Ohlsen Family Garden

The children of Floyd and Jeanne Ohlsen decided to honor their parents by establishing an endowment to support student internships at the botanical garden and help renovate and expand the family food garden. The generosity of Heidi Olsen, Lori Gorsline, and Roxanne Valentine will allow the garden to renovate the pathways, install new raised beds, and best of all, expand our accessible and container gardens. The changes will provide us with a place to experiment with container growing of vegetables, fruits, and herbs.

Regular garden visitors will be familiar with the grassy area just north of the vegetable garden that now holds two accessible raised beds. Those raised beds are one of the most popular components of our vegetable garden and have been copied by many home gardeners and senior centers in Alaska and elsewhere.

Over the next few years, look for elimination of the grass and installation of a patio that will hold a variety of accessible benches and container gardens. We will build different sizes of moveable container gardens using the talents of local woodworker, Wanda Tangermann. The garden will include special designs and trellises using Alaska diamond willow. We are excited about the opportunity to expand our experimental gardens, and we thank Heidi, Lori, and Roxanne for honoring their family in such a special way. They are enriching the entire garden and giving a wonderful gift to the community by their generosity.

GEORGESON BOTANICAL GARDEN

