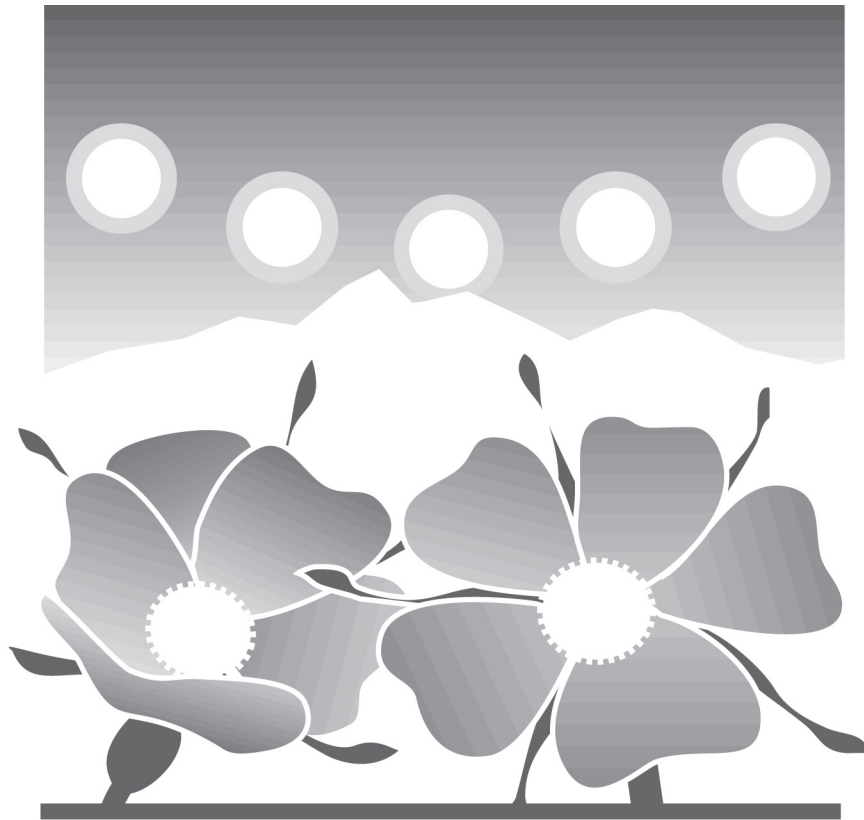


Annual Vegetable Evaluations 2004



GEORGESON
BOTANICAL GARDEN

by

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Introduction

Weather data were compiled annually from a U.S. Weather Service station, elevation 475ft (145m), located approximately 350ft (107m) west of the garden. The last spring frost was 8 May (30°F, -1°C) (Table 1). The amount of precipitation was 3.3 inches below the past ten year average of 8.4 inches with more than half of the rainfall occurring in May and September. The season was the driest in the past 10 years. The thaw degree-day accumulation was 474.6 degree-days higher than the previous ten-year average and was the warmest during the past 10 years. The frost free season of 119 days compared to the previous ten year average of 110 days. The summer was hot, dry and extremely smoky from a record acreage burned by forest fires. The extra warmth provided one of the best growing seasons in the Interior especially for warm season vegetables such as pumpkins and beans. Local growers and homeowners grew spectacular gardens as long as they had access to irrigation. Table 2 is a weather summary for the months of the growing season

Each year approximately 200 vegetable cultivars are included in the tests at the Georgeson Botanical Garden. Each cultivar is tested for at least three years and, where possible, compared with long-term standard cultivars that have proven valuable over many years. The

vegetable trials were planted from 11 May to 7 June, 2004 (Table 3.) in the Family Food Garden of the Georgeson Botanical Garden (64° 51'N, 147° 52'W). 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 spinach and continued three times weekly through September. Data consisted of yield as well as observations of disease, insect pests, off-type plants, and deformities. Tomato cultivar trials are reported in Tomato Cultivar Trials 2000-2004, Agricultural and Forestry Experiment Station Research Progress Report, In Press.

Table 1. Previous ten year weather data plus 2004

Season	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Average temperature:											
May	52.0	52.3	44.1	47.8	49	46	44	45	50.4	44.2	52
June	57.0	58.5	57.3	61.0	57.8	61	59	56.5	57.6	61.3	66
July	62.0	61.9	61.9	63.8	62.2	61	59	60.5	61.3	60.5	65
Aug	51.0	55.6	52.1	57.1	52.4	57.5	51.5	57	53.9	55.1	62
Sept.	43.0	50.6	41.2	49.6	45.8	45	41	48.5	46.6	40.8	38
Maximum temperature	89	85	82	87	87	91	83	95	85	82	90
Growing season:											
Last frost	May 6	May 22	June 5	May 25	May 13	May 29	May 15	May 13	May 12	May 24	May 8
First frost	Aug 23	Sep 4	Aug 27	Aug 19	Sep 13	Sep 11	Sep 16	Sep 24	Sep 2	Sep 13	Sep 4
Frost free days	109	105	83	86	123	105	124	134	113	112	119
Thaw degree days	3476.3	3676.5	2810.5	3655.5	3277.5	3383	2943	3439	2980.0	3122.7	3751.0
Rainfall	7.21	10.15	8.73	5.86	9.87	8.66	8.55	5.80	9.35	9.91	5.06
Previous winter season:											
Minimum temperature	-37	-48	-48	-54	-48	-54	-50	-27	-36.3	-34.6	-44.4
Snowfall	36.3	69	47.8	38.4	30.6	31.6	62.2	39.9	39.7	33.2	51.7

Table 2. Weather Data for 2002 - 2004

	May			June			July			August			September		
	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
Average daily max. °F	64	55	64	69	74	80	73	70	76	64	66	75	57	50	47
Monthly high temp. °F	85	74	76	77	82	90	83	88	89	85	76	84	67	66	61
Average daily min. °F	37	33	40	46	48	53	50	50	53	44	44	49	36	31	30
Monthly low temp. °F	18	27	30	33	40	42	36	41	44	34	39	35	28	17	26
Rainfall (inches)	0.48	0.48	1.67	1.30	0.85	0.42	2.71	5.12	1.21	3.71	1.86	0.50	1.15	1.73	1.26

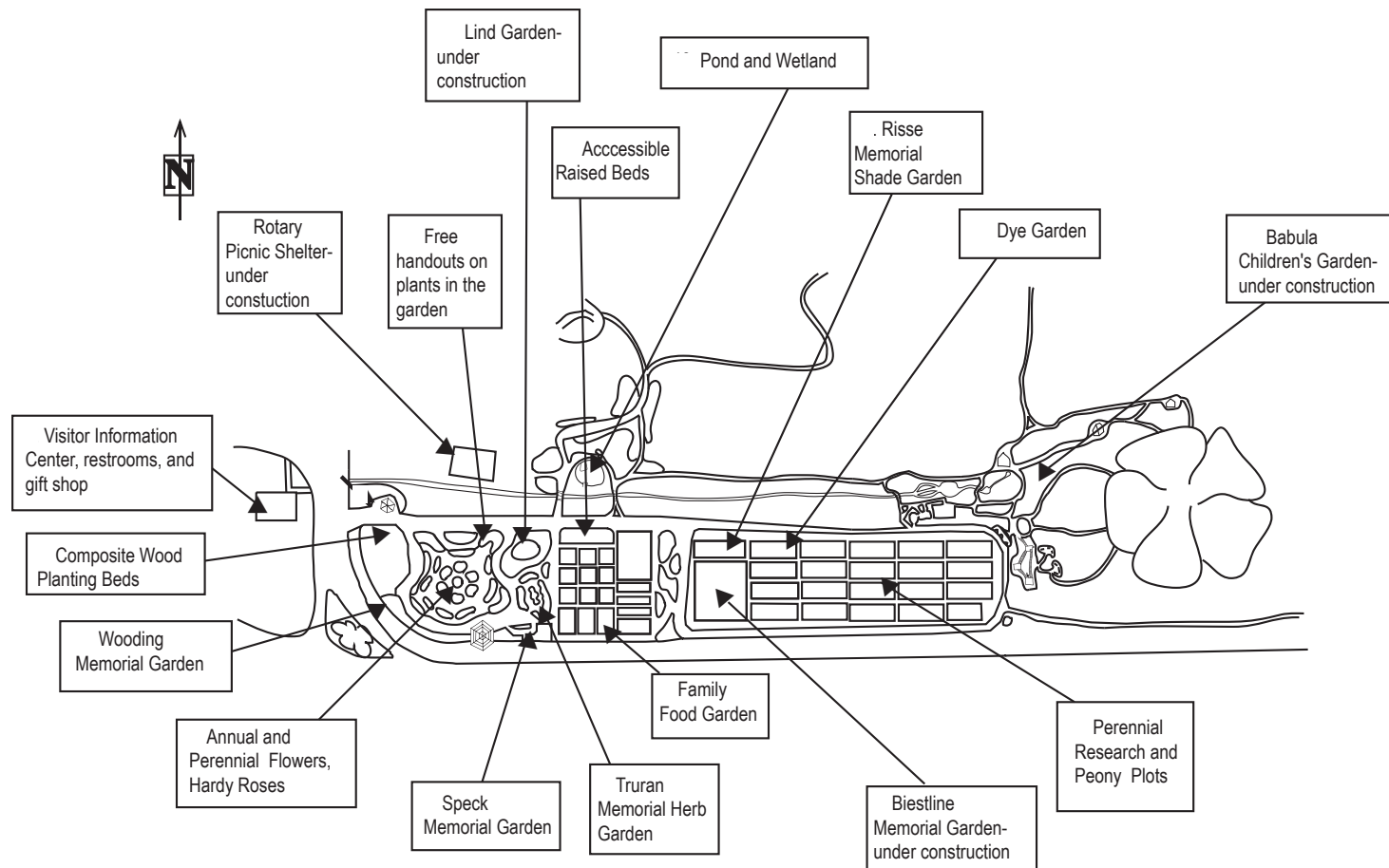


Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within		IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description
Bean	Ambra	18	28-May	DS	1"	3'	no	0.75/foot	8/4-8/24	Smooth straight medium green pods, 52 days
Bean	Contender*	21	28-May	DS	1"	3'	no	1.22/foot	7/26-8/24	Reliable, round-oval pods with strong flavor, 55 days
Bean	Provider*	16	28-May	DS	1"	3'	no	1.30/foot	7/26-8/24	5-5.5" long, medium green, fleshy, round pods adapted to diverse conditions, 50 days
Bean	Tendercrop	11	28-May	DS	1"	3'	no	0.93/foot	8/4-8/24	Mid green, round, stringless, pods up to 6" long, vigorous, upright, excellent for freezer
Bean, Romano	Gina	11	28-May	DS	1"	3'	no	2.61/foot	7/26-8/24	Flat 5-5 1/2" broad pods
Bean, Romano	Roma II*	20	28-May	DS	1"	3'	no	0.51/foot	8/4-8/24	Medium-green, smooth, flat pods, slow to develop seed or tough strings, 59 days
Bean, Yellow Romano	Romano Gold	18	28-May	DS	1"	3'	no	2.60/foot	8/4-8/24	Dwarf, bushy plants, light yellow pods, 56 days
Bean, Yellow Wax	Goldito	21	28-May	DS	1"	3'	no	1.34/foot	8/4-8/24	Smooth, straight pods, 52 days
Bean, Yellow Wax	Goldkist	6	28-May	DS	1"	3'	no	0.50/foot	8/4-8/24	Slim, 6" pods, deep yellow color
Bean, Yellow Wax	Rocdor	6	28-May	DS	1"	3'	no	1.34/foot	8/4-8/24	Reliable, straight, early pods, harvest young, 50-53 days
Bean, Yellow Wax	Sunburst	18	28-May	DS	1"	3'	no	1.57/foot	7/26-8/24	Early wax bean, smooth pods, 51 days
Beet	Chioggia	6	27-May	DS	3-4"	2'	no	0.92/foot	7/21-8/4	Good color, white and pink rings inside scarlet skin, sweet flavor. 55 days
Beet	Little Mini Ball	18	27-May	DS	3-4"	2'	no	1.55/foot	7/21-8/11	Small size, round, short tops, good for greens
Beet	Pacemaker III	18	27-May	DS	3-4"	2'	no	2.25/foot	7/21-8/11	Round root with no zoning, excellent flavor crisp texture, 55 days
Beet	Red Ace	6	27-May	DS	3-4"	2'	no	1.94/foot	7/21-8/11	Round, smooth, deep red roots, early, medium tall, red-veined greens
Beet	Sangria*	17	27-May	DS	3-4"	2'	no	1.41/foot	7/16-8/9	Globe shaped, excellent color, sweet, smooth & tender, slow bolting
Broccoli	Early Dividend*	12	19-Apr	26-May	16"	3'	no	0.15/plant	6/26	Large, early, lots of laterals, 25" tall, 50 days
Broccoli	Green Valiant*	20	19-Apr	26-May	16"	3'	no	1.42/plant	7/16-7/26	Reliable, high quality, medium-large heads
Broccoli	Marathon	6	19-Apr	26-May	16"	3'	no	2.11/plant	7/20-8/04	Large, uniform, high yields, tolerant to cold
Broccoli	Shogun	24	19-Apr	26-May	16"	3'	no	2.29/plant	7/26-7/28	Huge, can reach 3-4 lbs, 14" across, 72 days
Brussels Sprouts	Jade Cross E	4	17-Mar	26-May	24"	3'	no	1.87/plant	8/06-8/18	Reliable, short season, uniform excellent quality sprouts
Brussels Sprouts	Oliver	4	17-Mar	26-May	24"	3'	no	1.30/plant	8/06-8/18	Earliest, medium-green sprouts, large, flavorful easy to grow, 90 days
Brussels Sprouts	Prince Marvel	21	17-Mar	26-May	24"	3'	no	2.29/plant	8/06-8/20	Reliable, flavorful, dark green sprouts, 85 days
Brussels Sprouts	Trafalgar	19	17-Mar	26-May	24"	3'	no	0.10/plant	8/20	Good, late, sweet, heavy crop of medium-sized sprouts, 160 days

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing		IRT	Yield in lb	Harvest period	Comments & Catalog Description
					Between	within				
Cabbage	Dynamo	8	19-Apr	26-May	16"	3'	no	3.51/plant	7/26-7/28	Small, round, hard, 2.5 lb. heads, 65-70 days
Cabbage	Earliana	23	19-Apr	26-May	16"	3'	no	1.99/plant	7/01-7/14	Good, early, round heads, 5" across, 60 days
Cabbage	Primax	6	19-Apr	26-May	16"	3'	no	3.79/plant	7/15-7/27	Small-midsize head, light green, 2-4 lbs., 60 days
Cabbage	Ruby Ball	20	19-Apr	26-May	16"	3'	no	5.56/plant	8/5-8/9	Firm, mild, sweet flavor, 3-4 lbs., 78 days
Cabbage	Savoy Express	1	19-Apr	26-May	16"	3'	no	1.37/plant	7/07	Tipburn, good color, some mold, All America winner 2000, compact 1-1.5 lb. heads. 55 days
Carrot	Artist	6	28-May	DS	1"	3'	no	5.44/foot	8/25	Tapered, smooth, roots, 7-8" long, deep orange, 65 days, rows planted in 3"-wide band
Carrot	Little Finger	3	28-May	DS	1"	3'	no	2.99/foot	8/25	3.5" long, 5/8" thick, smooth skin and small cores, 65 days, rows planted in 3"-wide band
Carrot	Minicor	6	28-May	DS	1"	3'	no	2.92/foot	8/06	Slim, 3-5" carrot, smooth skin and excellent color, 55 days, rows planted in 3"-wide band
Carrot	Nelson	20	28-May	DS	1"	3'	no	6.38/foot	8/25	Excellent flavor, high-producing and quality, Smooth 6-7" root, 1-1.5" shoulders, deep orange color, 58 days, rows planted in 3"-wide band
Carrot	Parmex	6	28-May	DS	1"	3'	no	2.92/foot	8/06-8/25	Round shape, orange, not a great taste, harvest at 1.5" for best quality, 50 days, rows planted in 3"-wide band
Cauliflower	Alverda	22	19-Apr	26-May	16"	3'	no	0.93/plant	8/18-8/20	Green-headed cauliflower, mild flavor, medium sized plants, 60-65 days
Cauliflower	Amazing	11	19-Apr	26-May	16"	3'	no	3.03/plant	7/31-8/20	Consistently high yields, large heads, strong upright foliage, tolerant to heat and cold, 60 days
Cauliflower	Andes	22	19-Apr	26-May	16"	3'	no	3.59/plant	7/28-8/18	
Cauliflower	Baldo	18	19-Apr	26-May	16"	3'	no	2.83/plant	7/14-8/18	Early, creamy white heads, solid, 2 lbs. 47 days
Cauliflower	Fremont	10	19-Apr	26-May	16"	3'	no	2.90/plant	7/26-8/20	Very white, 7" across, self wrapping, 65 days
Cauliflower	Snow Crown	12	19-Apr	26-May	16"	3'	no	1.88/plant	7/12-7/19	Early, All-America Selection, well-rounded white heads, up to 8" across, 68 days
Celery	Florida 683	18	17-Mar	28-May	6"	3'	no	9.53/foot	8/25	High rib-count, bushy, medium green, 100 days, planted in staggered double row 6" spacing
Celery	Utah 52-70 HK	18	17-Mar	28-May	6"	3'	no	5.75/foot	8/25	Dark green, compact. 98 days, Planted in staggered double row 6" spacing
Celery	Ventura	18	17-Mar	28-May	6"	3'	no	9.82/foot	8/25	Extra heavy trim weight, 100 days, planted in double row 6" spacing
Collards	Champion	18	1-Jun	DS	12"	3'	no	1.34/foot	8/11	Slow bolting, dark green color, long, broad, wavy, tender leaves. 60 days
Cucumber	Early Pride	23	3-May	5-Jun	2.5'	5'	yes	39.74/plant	7/12-8/26	Slicing, 8.5" long, crispy and tasty fruit, 55 days
Cucumber	Fanfare	10	3-May	5-Jun	2.5'	5'	yes	29.86/plant	7/07-8/26	Slicing, semi-bush hybrid, dark green 8-9", 52 days
Cucumber	H-19 Little Leaf*	6	3-May	5-Jun	2.5'	5'	yes	30.35/plant	7/14-8/26	Easy to pick, blocky, medium length, Good for fresh eating and pickling. 57 days
Cucumber	Northern Pickling	5	3-May	5-Jun	2.5'	5'	yes	35.90/plant	7/15-8/26	High-yielding, early variety for salads and pickling, fertilize well, pick at small size, 48 days
Cucumber	Salad Bush	4	3-May	5-Jun	2.5'	5'	yes	32.86/plant	7/20-8/26	Favorite, All-America winner, 8"-long slicers, smooth, dark green skin, 57 days
Cucumber	Sweet Success*	13	3-May	5-Jun	2.5'	5'	yes	34.26/plant	7/07-8/26	Slicing, consistent high yields, All-America winner, 12" long, 58 days
Cucumber	Sweeter Yet	22	3-May	5-Jun	2.5'	5'	yes	53.44/plant	7/14-8/26	10-12" dark green, crisp fruit, 45 days

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within		IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description
Eggplant	Bride	18	17-Mar	5-Jun	1'	2'	yes	0.44/plant	7/26-8/23	Low yield, slim, 8" long, tender, great taste, 58 days, plant two rows, 1' apart in a 3'-wide raised bed
Eggplant	Early Bird	11	17-Mar	5-Jun	1'	2'	yes	14.7/plant	7/09-8/27	Earliest thick-fruited eggplant
Eggplant	Ichiban	5	17-Mar	5-Jun	1'	2'	yes	8.9/plant	7/14-8/27	Oriental, slender, 12" fruit. 61 days, medium yield
Eggplant	Orient Express	6	17-Mar	5-Jun	1'	2'	yes	2.36/plant	7/16-8/27	Black oriental type, great early productivity, 10" fruits, 58 days, plant two rows 1' apart in a 3'-wide raised bed, sets fruit in cool weather
Eggplant	Snowy	6	17-Mar	5-Jun	1'	2'	yes	1.23/plant	7/09-8/27	White oriental type long fruit, early, mild, non-bitter flavor, 60 days, plant two rows 1' apart in a 3'-wide raised bed
Greens, Oriental	Komatsuna Summerfest	6	1-Jun	DS	6-8"	3'	no	1.20/foot	8/11	Mild, tender greens, Upright with slender, fleshy stems and dark green, rounded leaves, has heat and disease tolerance, 35 days
Kale	Red Russian	24	27-May	DS	12-16"	2'	no	7.73/foot	7/28-8/27	Consistent high yields, stems purple, leaves deep gray-green, 25 days baby, 50 days mature
Kale	Tosceno	6	27-May	DS	12-16"	2'	no	3.93/foot	7/28-8/27	Good color, dark green, blistered leaves, mild flavor, 30 days baby, 65 days mature
Kale	Winterbor	20	27-May	DS	12-16"	2'	no	7.59/foot	7/28-8/27	Winter-hardy kale, finely curled, thick, blue-green leaves, sweet after frosts, 60 days
Kohlrabi	Eder	6	28-May	DS	3-6"	3'	no	3.28/foot	8/25	Early white, tender and fast maturing. 38 days
Kohlrabi	Grand Duke	21	28-May	DS	3-6"	3'	no	4.50/foot	8/25	
Kohlrabi	Kolibri	20	28-May	DS	3-6"	3'	no	4.17/foot	7/31-8/25	Large bulbs with uniform deep purple skin, nearly fiberless white flesh, 45 days
Leek	Arena	22	8-Mar	1-Jun	3"	3'	no	6.39/foot	8/25	Blue-green autumn type, 7" shafts, 118 days
Leek	King Richard*	24	8-Mar	1-Jun	3"	3'	no	3.26/foot	8/25	Early, extra long, slim stems
Leek	Pancho	15	8-Mar	1-Jun	3"	3'	no	3.28/foot	8/25	High quality, stocky, short-shanked summer leek, 100-110 days
Lettuce, Butterhead	Edox M.I.	18	21-Apr	27-May	10"	2'	no	0.71/plant	7/09	Tipburn, ragged, had insect damage, deep red firm leaves, tolerance to poor weather, 64 days
Lettuce, Butterhead	Ermosa	6	21-Apr	27-May	10"	2'	no	1.22/plant	7/01	Dark green, tolerant to tipburn and bolting, 28 days baby, 48 days full size
Lettuce, Butterhead	Esmeralda M.I.	18	21-Apr	27-May	10"	2'	no	1.00/plant	7/01-7/07	Tipburn, medium green, smooth, firm heads, Slow bolting, 68 days
Lettuce, Butterhead	Mikola	6	21-Apr	27-May	10"	2'	no	0.45/plant	7/09	Small, red, compact, heavy heads, leaves have green base with uniform red edge
Lettuce, Butterhead	Sangria	18	21-Apr	27-May	10"	2'	no	0.86/plant	7/01-7/07	Red butterhead; medium dark green leaves tinged red; resistant to bolting, tipburn
Lettuce, Crisphead	Burgundy Ice	23	21-Apr	27-May	10"	2'	no	1.80/plant	7/09	Little tipburn, tall, good color, outer leaves with burgundy, crisp inner leaves light green
Lettuce, Crisphead	Continuity	15	21-Apr	27-May	10"	2'	no	0.60/plant	7/09	Tipburn, bolted, moldy, insect damage, holds up well in cold weather, 70-75 days
Lettuce, Leaf	Brunia Oakleaf	24	26-May	DS	10"	2'	no	2.87/foot	7/09-8/09	Very good, no rotting, no visible bugs, French variety with long, slender leaves, 74 days

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within		IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description
Lettuce, Leaf	Cocarde	6	26-May	DS	10"	2'	no	3.32/foot	7/09-8/09	Large, trumpet-shaped heads, dark green leaves with purple-red, slow bolting. 28 days baby, 49 days full size
Lettuce, Leaf	Galactic	17	26-May	DS	10"	2'	no	1.23/foot	7/21-8/06	Beautiful, holds well, dark red; mild flavor
Lettuce, Leaf	Merlot	NA ³	26-May	DS	10"	2'	no	1.66/foot	7/01-7/27	Beautiful frilled leaves of the richest dark red, smooth, full-bodied flavor, substitute Galactic
Lettuce, Leaf	New Red Fire	4	26-May	DS	10"	2'	no	1.95/foot	7/09-8/09	A little tipburn, good color, compact and dense with intense red color, 45 days
Lettuce, Leaf	Red Rage	18	26-May	DS	10"	2'	no	1.87/foot	7/09-8/06	Insect damage, dark red color, 44 days
Lettuce, Leaf	Red Sails	6	26-May	DS	10"	2'	no	2.08/foot	7/09-8/06	Good color, no bugs, healthy, compact heads, ruffled leaves, All-America Selection
Lettuce, Leaf	Revolution	20	26-May	DS	10"	2'	no	1.17/foot	7/28-8/06	Beautiful, holds well, frilled leaves, late bolting, 38 days
Lettuce, Leaf	Royal Oak Leaf	2	26-May	DS	10"	2'	no	0.91/foot	7/09-8/09	Heat-tolerant, long standing, large rosettes of oak-like, dark green leaves, 50 days
Lettuce, Leaf	Ruby Ruffles	11	26-May	DS	10"	2'	no	2.51/foot	7/09-8/06	Burgundy color, deeply puckered leaves
Lettuce, Romaine	Cimmaron	5	21-Apr	27-May	10"	2'	no	1.32/plant	7/07-7/09	Deep red color, rarely bolts, good flavor and crisp, tender texture
Lettuce, Romaine	Devil's Tongue	20	21-Apr	27-May	10"	2'	no	1.50/plant	7/07	Nice red color, some leaf rot, rich in flavor, forms heads up to 7", 55 days
Lettuce, Romaine	Eruption	22	21-Apr	27-May	10"	2'	no	0.87/plant	7/09	Good color, little tipburn, no rot, intensely red miniature heads reach 8" tall, slow bolting, 50 days
Lettuce, Romaine	Freckles	4	21-Apr	27-May	10"	2'	no	1.19/plant	7/07	Susceptible to tipburn, green leaves spotted with red, 28 days baby, 55 days full size
Lettuce, Romaine	Outredgeous	6	21-Apr	27-May	10"	2'	no	1.24/plant	7/07	Nice color, starting to bolt (7/7), 10" romaine, 52 days
Lettuce, Romaine	Romulus	21	21-Apr	27-May	10"	2'	no	2.01/plant	7/09	9-12" heads with glossy-green outer leaves and crispy pale-green inner leaves, 75 days
Pea	Green Arrow*	16	28-May	DS	1"	3'	no	1.27/foot	7/19-8/26	Reliable variety for Fairbanks, excellent flavor, double rows spaced 6" apart
Pea	Lincoln	18	28-May	DS	1"	3'	no	0.94/foot	7/14-8/26	Well-filled slender 3" pods, 65 days, rows double rows spaced 6" apart
Pea	Mr Big	23	28-May	DS	1"	3'	no	0.55/foot	7/19-8/26	Harvest mature pods in about 58 to 62 days, double rows spaced 6" apart
Pea	Novella II	5	28-May	DS	1"	3'	no	0.47/foot	7/26-8/09	Easy to pick, doesn't require trellising, semi-leafless pea, double rows spaced 6" apart
Pea, Snap	Cascadia	18	28-May	DS	1"	3'	no	0.66/foot	7/19-8/26	Short vined, low yield this year, 3" dark green pods, 58 days, double rows spaced 6" apart
Pea, Snap	Sugar Sprint Snap	8	28-May	DS	1"	3'	no	0.40/foot	7/14-8/02	Almost stringless, 3" pods, 58 days, double rows spaced 6" apart
Pea, Snap	Sugarsnap*	6	28-May	DS	1"	3'	no	1.65/foot	7/20-8/26	Tall, 3" pods, bear profusely over a long period, 1979 All-America Selections winner, 62 days, double rows spaced 6" apart
Pea, Snap	Super Sugar-snap	4	28-May	DS	1"	3'	no	0.88/foot	7/14-8/26	Tasty, earlier, somewhat shorter-vined version of Sugar Snap, pods avg. 3", 60 days, double rows spaced 6" apart

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within		IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description	
Pea, Snow	Oregon Sugar Pod II*	20	28-May	DS	1"	3'	no	2.09/foot	7/14-8/26	Easy to grow, nonclimbing dwarf vines, 4-5" pods, double rows spaced 6" apart, 70 days	
Pea, Snow	Snow Green	6	28-May	DS	1"	3'	no	1.19/foot	7/14-8/26	Average 3-1/4 to 3-1/2" pods, crisp and flavorful 59 days, double rows spaced 6" apart	
Pepper	Blushing Beauty	1	29-Mar	5-Jun	1.5'	2'	yes	1.46/plant	7/14-8/27	Sweet bell, All America Selection 2000, 72-75 days, two rows planted 1' apart in a 3'-wide raised bed, peppers blush from ivory to pink and red, sweet at any color	
Pepper	Fajita Bell	22	29-Mar	5-Jun	1.5'	2'	yes	2.89/plant	7/16-8/27	Medium hot bell, thick walls, deep green, fruit that ripen to a bright red, 80 days, two rows of plants 1' apart in a 3'-wide raised bed	
Pepper	Giant Marconi	1	29-Mar	5-Jun	1.5'	2'	yes	1.90/plant	7/09-8/27	Big, bright green, 6-8" long tapered pepper will mature to red, two rows of plants 1' apart in a 3'-wide raised bed, 72 days	
8	Pepper	Gypsy	24	29-Mar	5-Jun	1.5'	2'	yes	3.79/plant	7/09-8/27	Light yellow-green, very thick-walled and sweet, 6-7 inch long tapered peppers, 58 days
Pepper	Hungarian Wax	23	29-Mar	5-Jun	1.5'	2'	yes	1.99/plant	7/09-8/27	Nice, light yellow turning to bright red, fairly hot fruits 8 in. long, tapered, 70 days, two rows of plants 1' apart in a 3'-wide raised bed	
Pepper	New Ace	12	29-Mar	5-Jun	1.5'	2'	yes	2.07/plant	7/14-8/27	Sweet bell, sets fruit well in cool weather, 62 days, two rows of plants 1' apart in a 3'-wide bed	
Pepper	Park's Early Thickset	11	29-Mar	5-Jun	1.5'	2'	yes	2.91/plant	7/14-8/27	Sweet bell, 1/2-inch thick walls, 45 days,	
Pepper	Senorita	20	29-Mar	5-Jun	1.5'	2'	yes	1.98/plant	7/19-8/27	Mild jalapeno, 3 inches long by 1 1/2 inches wide, 80 days, two rows planted 1' apart in a 3'-wide raised bed	
Pepper	Super Cayenne	1	29-Mar	5-Jun	1.5'	2'	yes	0.14/plant	8/06-8/27	Incredibly hot, 1990 All-America Selection winner	
Pepper	Thai Hot	11	29-Mar	5-Jun	1.5'	2'	yes	0.01/plant	8/16-8/27	Hot, really tasty, 1-inch fruits, 40 days, two rows planted 1' apart in a 3'-wide raised bed	
Pumpkin	Connecticut Field*	18	26-Apr	7-Jun	7'	5'	yes	223.44/plant	9/01-9/03	Large, smooth, deep orange, 115 days	
Pumpkin	New England Pie	6	26-Apr	7-Jun	7'	5'	yes	56.41/plant	9/01-9/03	Small pie type, dark orange skin, 105 days	
Pumpkin	Orange	6	26-Apr	7-Jun	7'	5'	yes	53.46/plant	9/01-9/03	90 days, requires less space than other pumpkins	
Pumpkin	Smoothie Racer	6	26-Apr	7-Jun	5'	5'	yes	76.01/plant	9/01-9/03	Highly productive, 85 days, vigorous, short vine	
Pumpkin	Rock Star	6	26-Apr	7-Jun	5'	5'	yes	154.53/plant	9/01-9/03	Vigorous, 98 days, blocky, upright shape	
Pumpkin	Sorcerer	1	26-Apr	7-Jun	7'	5'	yes	108.22/plant	9/01-9/03	Full-sized pumpkin, compact vine, 100 days	
Pumpkin	Wee-B-Little	1	26-Apr	7-Jun	7'	5'	yes	30.81/plant	9/01-9/03	Very small ornamental, All-America Selections winner 1999, 95 days	
Radicchio	Chioggia Red Preco 1	6	21-Apr	26-May	10"	2'	no	0.78/plant	7/22	Tends to tipburn, superior early small-framed, make well-folded, large, heavy, heads, 60 days	
Radicchio	Fiero	6	21-Apr	26-May	10"	2'	no	0.39/plant	7/07	Good color, tipburn, all bolted early, 66 days	
Radish	Burpee White	23	27-May	DS	1"	2'	no	0.90/foot	6/22-7/01	Few blemishes, 25 days, best eaten at 1" across	

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within		IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description
Radish	Cherriette	4	27-May	DS	1"	2'	no	1.35/foot	6/22-7/07	Good shape and color, no blemishes, 20 days
Radish	Cherry Belle*	10	27-May	DS	1"	2'	no	0.95/foot	6/22-7/07	A couple had splits, good shape and color, bright red, outstanding keeping quality
Radish	Easter Egg	6	27-May	DS	1"	2'	no	1.80/foot	6/22-7/07	Split in one, some blemishes, mix of red, purple, and white radishes. 30 days
Radish	Red Meat	22	27-May	DS	1"	2'	no	0.12/foot	7/01	Chinese radish, green skin, pink flesh, 2-4" round, 50 days
Radish	Reggae	11	27-May	DS	1"	2'	no	1.37/foot	6/22-7/07	Good color, good shape, few blemishes
Radish	Sora	6	27-May	DS	1"	2'	no	1.99/foot	6/22-7/01	Nice color, good shape, few blemishes, 26 days
Radish	Vintage	4	27-May	DS	1"	2'	no	0.63/foot	6/22-7/07	Good shape and color, few blemishes, possibly no longer available
Radish, Daikon	Mino Spring Cross	6	28-May	DS	3"	3'	no	1.19/foot	7/14	Slow bolting, suitable for late spring
Radish, Daikon	Miyashige	6	28-May	DS	3"	3'	no	1.14/foot	7/14-7/19	Long, cylindrical white root with a pale green band near the crown, 50 days
Radish, Daikon	R 71804	6	28-May	DS	3"	3'	no	1.82/foot	7/14-7/19	Harvested early—going to seed, 65 days all-white roots
Rutabaga	Joan	6	28-May	DS	5"	3'	no	2.04/foot	7/26	Great flavor, taste is sweet, fresh and mild, uniform, purple-topped and yellow-fleshed
Spinach	Correnta	17	27-May	DS	4"	2'	no	0.46/foot	7/01	Dark green, looks healthy, a few scarred edges and rotted places
Spinach	Giant 157	23	27-May	DS	4"	2'	no	0.37/foot	7/01	Edges frayed, some yellow tips
Spinach	Green Magic	22	27-May	DS	4"	2'	no	0.45/foot	7/01	Looks healthy, crinkled, crisp leaves
Spinach	Melody*	18	27-May	DS	4"	2'	no	0.52/foot	7/01	Reliable for Fairbanks, resists bolting
Spinach	Tyee	18	27-May	DS	4"	2'	no	0.54/foot	7/01	Good variety for Fairbanks, looks really good
Squash, Spaghetti	Hi Beta Gold	12	26-Apr	7-Jun	7'	5'	yes	19.05/plant	9/01-9/03	Watery, flavorless, slightly bitter near the skin, bright orange color throughout
Squash, Spaghetti	Small	11	26-Apr	7-Jun	7'	5'	yes	71.31/plant	9/01-9/03	Bland, watery, not the best spaghetti squash
Squash, Summer	Wonder Early	5	3-May	5-Jun	3'	5'	yes	38.70/plant	7/09-8/26	Straight neck, lemon yellow, harvest 4-7" long, firm, fine grained flesh.
Squash, Summer	Prolific Eight Ball	1	3-May	5-Jun	3'	5'	yes	56.19/plant	7/13-8/26	Round zucchini, dark green, harvest young, the size of a golf ball, All America Selection
Squash, Summer	Papaya Pear	1	3-May	5-Jun	3'	5'	yes	49.08/plant	7/07-8/26	Papaya shape, sweet mild flavor, early, pick at 3" long x 2-3" wide, All America Selection
Squash, Summer	Raven	6	3-May	5-Jun	3'	5'	yes	46.96/plant	7/07-8/26	Zucchini, darker green skin contains higher levels of lutein, a highly effective antioxidant
Squash, Summer	Sunburst	18	3-May	5-Jun	3'	5'	yes	46.93/plant	7/14-8/26	Bright yellow patty pan, harvest small 3", All America Selection
Squash, Summer	Sunray	23	3-May	5-Jun	3'	5'	yes	30.63/plant	7/14-8/26	Straightneck squash, rich, butter yellow, holds color longer than most varieties
Squash, Summer	Super Zuke	23	3-May	5-Jun	3'	5'	yes	53.97/plant	7/07-8/26	Zucchini, bush-type plants, nutty flavor
Squash, Winter	Hybrid Ambercup	18	26-Apr	7-Jun	7'	5'	yes	73.61/plant	9/01-9/03	Reliable variety for Fairbanks, smooth texture, sweet, bright orange, long shelf life, high yields
Squash, Winter	Bon Bon	1	26-Apr	7-Jun	7'	5'	yes	61.21/plant	9/01-9/03	Sweet yellow orange flesh, mealy, coarse, potato-like texture, upright, semi-bush habit,

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Table 3. 2004 vegetable cultivar results

Name	Cultivar	Source ¹	Date Seed	Date Plant ²	Row Spacing Between within	IRT Mulch	Yield in lb	Harvest period	Comments & Catalog Description	
Squash, Winter	Cornell's Bush Delicata	1	26-Apr	7-Jun	7'	5'	yes	1.60/plant	9/01-9/03	All American Selection Low yield probably due to daylength inhibiting flowering, All American Selection
Squash, Winter	Gold Nugget	20	26-Apr	7-Jun	7'	5'	yes	32.01/plant	9/01-9/03	Smooth, orange flesh, sweet, substitute for sweet potato, All American Selection
Squash, Winter	Mini Green	18	26-Apr	7-Jun	7'	5'	yes	33.21/plant	9/01-9/03	Mustard-colored flesh, strong flavor, slightly sweet, hard rind, small hubbard.
Squash, Winter	Hubbard Sunshine	1	26-Apr	7-Jun	7'	5'	yes	51.01/plant	9/01-9/03	Sweet, mealy, bright orange flesh, slightly earthy flavor, All American Selection
Squash, Winter	Sweet Mama	18	26-Apr	7-Jun	7'	5'	yes	64.21/plant	9/01-9/03	Reliable for Fairbanks. All America Selection not as flavorful as others
Sweet Corn	Custer	18	11-May	DS	1'	5'	yes	2.86/plant	8/09-8/25	Latest we grow, by a little the best one, replaces EarliVee
Sweet Corn	EarliVee	20	11-May	DS	1'	5'	yes	2.53/plant	7/30-8/25	3rd earliest in our trials, well-filled 6-7" ears
Sweet Corn	Grant	18	11-May	DS	1'	5'	yes	1.52/plant	8/06-8/25	4th earliest, the second best, replaces Polar Vee
Sweet Corn	Polar Vee*	21	11-May	DS	1'	5'	yes	1.09/plant	7/07-8/25	2nd earliest, bigger than Yukon Chief
Sweet Corn	Yukon Chief	5	11-May	DS	1'	5'	yes	0.94/plant	7/28-8/25	Earliest, bred at UAF, exceptionally early dwarf, 5-6 inch ears, excellent cold soil emergence
Swiss Chard	Bright Lights	1	27-May	DS	12"	2'	no	3.33/foot	7/28-8/27	By 8/4 all were bolting, leaves small, multicolor stems
Swiss Chard	Bright Yellow	6	27-May	DS	12"	2'	no	2.72/foot	7/28-8/27	Bright yellow stems and leaf veins contrast with deep green leaves, sweet, mild taste
Swiss Chard	Neon Lights	23	27-May	DS	12"	2'	no	4.43/foot	7/28-8/27	Blend of five varieties: golden yellow, intense red, two white shades and rich magenta
Swiss Chard	Silverado	18	27-May	DS	12"	2'	no	5.17/foot	7/28-8/27	Compact 16" plant, dark green, deeply savoyed, leaves; broad white stems; slow to bolt
Swiss Chard	White King	18	27-May	DS	12"	2'	no	6.08/foot	7/28-8/27	Large thick white ribs, extra dark green heavily savoyed leaves
Tomatillo	Toma Verde	11	12-Apr	5-Jun	2.5'	5'	yes	9.40/plant	7/30-8/27	Great for salsa, 4' bush, 2-oz. fruits in husks, harvest when greenish fruits turn pale yellow
Turnip	Hakurei	6	28-May	DS	4"	3'	no	2.02/foot	7/14-7/19	Lots of splits, fruity-sweet taste, harvest young, great holding ability
Turnip	Shogoin	7	28-May	DS	4"	3'	no	0.46/foot	7/19	Went to seed early, large, ball-shaped turnip, firm and crispy, easy to grow
Turnip	Tokyo Cross	12	28-May	DS	4"	3'	no	1.54/foot	7/19	Good disease resistance. semi-globe roots, white, harvest when small or mature

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Acknowledgements

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