



SUMMARY
of
VEGETABLE VARIETY TRIALS
FAIRBANKS, ALASKA
1982

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**SUMMARY OF VEGETABLE VARIETY TRIALS
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Introduction

This report summarizes the vegetable variety evaluations of the Horticulture Department of the University of Alaska, Fairbanks, 1982. Variety trials were all conducted at the Agricultural Experiment Station's research farm at Fairbanks.

The objective of this research is to select varieties of vegetables that are adapted to this environment. It also identifies types whose adaptability may be improved through development of improved cultural techniques. The selection effort is directed at finding varieties useful to both the commercial growers and home gardeners.

Varieties are chosen for inclusion in the variety tests on the basis of their description, their latitude of origin, and the record of the plant-breeding program for producing kinds that have previously been found adapted. Standard recommended varieties are included in the trials for comparison.

The vegetable variety evaluation program has been responsible for a continuous improvement in yields, quality, and dependability for many vegetable crops. Our philosophy is to depend upon the many existing plant-breeding programs instead of investing in an expensive, on-site, plant-breeding effort. Progress can be made more rapidly by variety selection at this time.

Climatic data in Table 1 show that temperatures during the 1982 growing season at Fairbanks were very close to the average temperature for the preceding 36 years. Growth and maturity of crops were consequently normal where good cropping practices were used. Even though the season was near average in temperature, killing frosts did not occur until mid-September, thus allowing yields to be recorded on a few crops that do not often mature at Fairbanks.

Rainfall at Fairbanks was considerably above normal but irrigation was used on all crops in the Fairbanks trials.

Soil temperatures were near normal for the entire season. As usual, crop growth was greatly improved where the soil temperature was raised through the use of clear polyethylene mulches or other methods.

The following tables show our results — including yields, maturity dates, and other useful characteristics and observations.

Table 1. Climatic Data for the Fairbanks Growing Season: 1981, 1982, and the Long-Term Average.

	Average Temperature (°F)			Precip. (in.)
	daily max.	daily min.	daily mean	
1982	58.2	33.4	45.8	0.68
1981	67.4	38.7	53.1	0.40
36-year average	60.3	33.6	46.9	0.77
----- May -----				
1982	71.1	44.5	57.8	2.26
1981	69.5	42.3	56.1	2.44
36-year average	71.6	44.0	57.8	1.53
----- June -----				
1982	75.0	49.0	62.0	3.87
1981	66.1	46.4	56.1	4.15
36-year average	72.6	46.9	59.8	2.20
----- July -----				
1982	66.7	41.9	54.3	1.23
1981	66.6	40.5	53.5	1.30
36-year average	67.3	42.9	55.2	2.37
----- August -----				
1982	57.7	36.2	46.8	0.61
1981	52.7	33.7	43.2	1.10
36-year average	55.4	33.7	44.6	1.33
----- September -----				

Table 2. Broccoli Variety Trials, Upland, 1982.

A.E.S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lbs/100')		Average wt. (gm)	Comments
			plant	row			Terminals	Laterals		
6146	Shogun	NK	16"	3'	8-6	668.3	110.5	15.9	668.3	good late variety, large heads (14" dia.), excellent quality
5607	Green Duke	P	16"	3'	7-19	423.6	70.0	59.8	423.6	nice large heads
5910	Grn. Valiant	Tw	16"	3'	7-16	407.1	67.3	97.4	407.1	good quality
4626	Emperor	NK	16"	3'	7-6	295.7	48.9	110.0	295.7	consistent high yields
6148	Corsair	T&T	16"	3'	6-30	156.7	25.9	60.2	156.7	
6092	Prominence	A&C	16"	3'	7-13	151.2	25.0	75.3	151.2	
1756	Gr. Umbrella	D	16"	3'	7-9	137.0	22.7	68.4	137.0	inconsistent yields
6353	Cruiser	As	16"	3'	7-6	124.6	20.6	87.9	124.6	
6303	Bonanza	Bu	16"	3'	7-6	113.3	18.7	78.3	113.3	
6351	Prima	As	16"	3'	7-6	106.2	17.6	63.5	106.2	
6230	Orion	A	16"	3'	6-30	100.0	16.5	108.5	100.0	
6352	Corvet	As	16"	3'	7-6	69.5	11.5	110.9	69.5	
5673	So. Comet	G	16"	3'	6-30	60.7	10.0	86.8	60.7	
4240	Grn. Hornet	St	16"	3'	6-30	59.7	9.9	77.5	59.7	
4241	Grn. Dwarf	St	16"	3'	7-9	34.5	5.7	100.8	34.5	

^aSee seed-source list.

Note: Greenhouse-grown plants, 27 days old, were transplanted into the field on May 20, 1982. Fertilizer application was 1500 lbs/A plus 1.5 lb/A boron and 1.2 lb/A molybdenum applied prior to rototilling.

Yield and quality were reduced on early season varieties due to early droughty conditions.

Table 3. Brussels Sprouts Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Comments
			plant	row				
5911	Prince Marvel	Tw	2'	3'	8-26	1380.0	152.1	excellent quality, uniform and tight
5857	Jade Cross E	NK	2'	3'	9-5	1105.0	121.8	consistent high yields
4424	Earli-Jade	A&C	2'	3'	9-5	983.6	108.4	consistent high yields
5592	Focus	T&M	2'	3'	9-5	592.1	65.3	
6032	Early Dwarf Danish	J	2'	3'	9-5	448.8	49.5	poor quality
5593	Bedford Fillbasket	T&M	2'	3'	9-5	126.4	13.9	uneven development

^aSee seed-source list.

Note: Greenhouse-grown plants, 51 days old, were transplanted into the field May 20, 1982. Fertilizer application was 1500 lb/A 10-20-20 applied prior to rototilling.

Table 4. Cabbage Variety Trials, Upland, 1982.

A.E.S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Av. Core Length Rating ^b	Av. Density Rating ^c	Comments
			plant	row							
4511	Hinova	Se	16"	3'	8-13	3106.5	513.6	3106.5	3.0	1.7	low density
4512	Predena	Se	16"	3'	8-9	2898.2	479.2	2829.2	3.2	1.8	low density
5555	1338	Ka	16"	3'	8-9	2688.3	444.5	2688.3	2.4	3.0	sweet flavor
5946	Super Slaw	St	16"	3'	8-23	2640.4	436.6	2640.4	2.4	4.4	nice head, good sweet flavor
6467	Alaska 6467	AK	16"	3'	8-9	2130.0	352.2	2130.0	2.4	4.1	slightly tough
5945	Gourmet	St	16"	3'	7-21	2090.0	345.6	2090.0	2.8	1.8	red, nice cabbage
6232	Rd. Langedijker	WD	16"	3'	8-28	1895.8	313.5	1895.8	2.5	4.7	good, late season
6264	Erin	Al	16"	3'	7-19	1868.7	309.0	1868.7	2.3	3.0	excellent flavor, nice med. heads
6233	Baby Red Early	WD	16"	3'	7-27	1862.1	307.9	1862.1	2.5	4.2	red
4317	Ruby Perfection	Tw	16"	3'	8-11	1845.4	305.1	1845.4	2.2	4.7	red
5859	Meteor	NK	16"	3'	7-23	1789.7	295.9	1789.7	1.8	2.8	red
6193	Hybrid 15	H	16"	3'	7-19	1689.3	279.3	1689.3	2.6	2.4	
3241	Ruby Ball	Ge	16"	3'	7-29	1570.8	259.7	1570.8	2.4	4.4	red
6309	1342	Ka	16"	3'	7-29	1522.0	251.7	1522.0	2.6	4.1	
5477	Jet Pak	T&T	16"	3'	7-14	1470.3	243.1	1470.3	2.5	3.3	
4065	Tastie	NK	16"	3'	7-14	1107.3	183.1	1107.3	2.0	2.9	
4043	Earliana	Bu	16"	3'	7-9	992.1	164.0	992.1	2.1	3.9	nice small head, early
6192	Sun Up	H	16"	3'	7-14	920.0	152.1	920.0	2.2	1.7	
6354	Golden Acre	As	16"	3'	7-14	762.3	126.0	762.3	2.3	4.7	small dense head, mild flavor
5594	Hornspi	T&M	16"	3'	7-6	477.3	78.9	477.3	2.1	2.2	pointed head variety

^aSee seed-source list.

^bCore length is noted from 1 to 5, with 1 the shortest, most desirable, and 5 being the longest.

^cDensity is noted from 1 to 5, with 1 being the least dense and 5 being the densest and most desirable.

Note: Greenhouse-grown plants, 27 days old, were transplanted into the field May 20, 1982. Fertilizer application was 1500 lb/A 10-20-20 plus 1.5 lb/A boron and 1.2 lb/A molybdenum applied prior to rototilling.

Yield and quality were reduced on early-season varieties due to early droughty conditions.

Table 5. Carrot Variety Trials, Bottomland, 1982.

A.E.S. Accession No.	Variety	Source ^a	Spacing ^b		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			Row	Row					
5078	Kuroda Chantenay	J	3'		9-10	16329	360	78.1	
6325	Dominator	SS	3'		9-10	16329	360	70.4	slightly tough
4066	Scarlet Nantes	NK	3'		9-10	16329	360	53.9	tender, stores well
4247	Special Long Type Nantes	St	3'		9-10	16102	355	55.9	good flavor, slightly tough
5919	Fancipak	Tw	3'		9-10	15876	350	84.4	
5458	Early Cross	Al	3'		9-10	15195	335	57.3	good flavor, stores well
5863	Gold King	NK	3'		9-10	14968	330	72.0	good flavor
5188	Orange Sherbet	St	3'		9-10	14515	320	53.0	excellent flavor, long thin
6036	Kinko	J	3'		9-10	13834	305	75.2	excellent flavor, short stubby
5864	Des Dan	NK	3'		9-10	12474	275	146.8	insufficient seed reduced yields and increased average size
6053	Royal Cross	P	3'		—				crop was stolen

^aSee seed-source list.

^bCarrots were seeded by hand and were not thinned.

Note: Carrots were seeded May 26, 1982. Fertilizer application was 1500 lb/A 10-20-20 applied prior to rototilling.

Table 6. Cauliflower Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
6262	White Rock	S&G	16"	3'	7-26	1100.7	182.0	1100.7	nice, large heads
5947	White Fox	St	16"	3'	8-9	1004.4	166.1	1004.4	nice, large heads
5916	Snow Pak	Tw	16"	3'	7-26	797.5	131.9	797.5	variable size, good quality
5190	White Summer	St	16"	3'	7-21	590.0	97.6	590.0	
4254	Delira	St	16"	3'	7-16	583.0	96.4	583.0	good quality
4590	Starlight	RZ	16"	3'	7-19	562.1	92.9	562.1	good quality
6350	Fortuna	As	16"	3'	7-13	552.0	91.3	552.0	very good quality
4591	Nevada	RZ	16"	3'	7-16	455.0	75.2	455.0	
6093	Spring Snow	A&C	16"	3'	7-19	432.1	71.4	432.1	
4255	Dominant	St	16"	3'	7-23	406.5	67.2	406.5	
6212	Idol Original	St	16"	3'	7-13	357.3	59.1	357.3	
5948	Snowmound	St	16"	3'	7-9	350.0	57.9	350.0	
5865	Early Snowball	NK	16"	3'	7-9	333.9	55.2	333.9	
4339	Dwarf Erfurt	WD	16"	3'	7-13	308.3	51.0	308.3	
4251	Snow Crown	St	16"	3'	7-9	293.0	48.4	293.0	good early variety
6195	Imperial 10-6	H	16"	3'	7-13	290.9	48.1	290.9	
6211	Snowdrift	Se	16"	3'	7-9	262.5	43.4	262.5	
6037	Snowball T-3	J	16"	3'	7-9	212.5	35.1	212.5	
5595	Abuntia	T&M	16"	3'	7-9	197.1	32.6	197.1	
4636	Alpha Pioneer	ARZ	16"	3'	7-16	174.5	28.9	174.5	poor quality
5949	Early Abundance	St	16"	3'	7-9	151.0	25.0	151.0	early variety (all heads harvested 7-9)
5608	Snow King	P	16"	3'	—				

^aSee seed-source list.

Note: Greenhouse-grown plants, 27 days old, were transplanted into the field on May 20, 1982. Fertilizer application was 1500 lbs/Acre 10-20-20 1500 lb/A 10-20-20 plus 1.5 lb/A boron and 1.2 lb/A molybdenum applied prior to rototilling.

Yield and quality were reduced on early season varieties due to early droughty conditions.

Table 7. Celery Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Comments
			plant	row				
6033	Green Giant	J	12"	3'	9-1	1767.8	389.7	early maturing, high yields, fair quality
5866	Utah 52-70	NK	12"	3'	9-1	1750.5	385.9	consistent high yields, excellent quality
4488	Florimart	McF	12"	3'	9-1	1631.5	359.7	excellent flavor and shape
3503	Transgreen	FM	12"	3'	9-1	1486.8	327.8	good flavor
5559	Clean Cut	H	12"	3'	9-1	1443.0	318.1	excellent flavor, easy to harvest
6150	Emerson Pascal	T&T	12"	3'	9-1	1385.3	305.4	poor quality, some rotting
6014	Amer. Grn. Greensnap	U	12"	3'	9-1	1338.8	295.1	excellent flavor
6324	Grande ^b	SS	12"	3'	9-1	1287.9	283.9	good flavor, a little tough

^aSee seed-source list.

^bTransplanted at 52 days old.

Note: Greenhouse-grown plants, 59 days old, were transplanted in the field on May 27, 1982. Fertilizer application was 1900 lb/A 10-20-20 applied prior to rototilling. Crop was side dressed with 10-20-20 on August 2, 1982.

Table 8. Cucumber Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
5676	Euro-American	G	3'	5'	7-21	10041.7	737.2	198.2	slicer, smooth skin, mild flavor
6382	Early Pride	Bu	3'	5'	7-23	8623.3	633.1	149.5	slicer, good flavor
6151	Amira	T&T	3'	5'	7-21	7726.7	567.2	126.7	slicer, smooth skin, sweet
6055	Park's Comanche	P	3'	5'	7-23	7245.0	531.9	149.9	slicer, good flavor, mild
5920	Sweet Slice	Tw	3'	5'	7-21	7120.0	522.7	201.5	slicer, nice sweet buttery flavor
6213	Lucky Strike	Se	3'	5'	7-21	7061.7	518.4	73.1	pickler
6152	Morden Early	T&T	3'	5'	7-16	6336.7	465.2	40.7	pickler
5562	Regal	H	3'	5'	7-21	5896.7	432.9	80.4	pickler
6056	Pickle Dilly	P	3'	5'	7-19	5640.0	414.0	67.7	pickler
5959	County Fair	St	3'	5'	7-19	5445.0	399.7	67.8	pickler
5918	Triple Mech	Tw	3'	5'	7-21	4090.0	300.3	61.7	pickler
5958	Dasher	St	3'	5'	7-30	3938.3	289.1	157.5	slicer
6229	Sweet Success*	AAS	3'	5'	7-28	3707.5	272.2	255.7	slicer, good flavor, shows promise
5921	Liberty	Tw	3'	5'	7-21	2961.7	217.4	56.2	pickler
5867	Early Surecrop	NK	3'	5'	8-2	2650.0	194.5	172.8	slicer, usually performs better
6196	Green Star*	H	3'	5'	7-30	2587.5	190.0	60.9	pickler
5957	Double Yield Pickling	St	3'	5'	8-4	366.7	26.9	52.4	pickler

^aSee seed-source list.

Note: Greenhouse-grown plants, 34 days old, were transplanted in the field on June 3, 1982. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

*Plants damaged by washout July 12, 1982.

Table 9. Eggplant Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
5597	Black Prince	T&M	18"	3'	8-9	116.7	17.0	116.7	very marginal outdoor crop in Interior. Black Prince & Imperial are best varieties tested.
6094	Imperial	A&C	18"	3'	8-9	115.0	16.7	115.0	
3487	Dusky	A&C	18"	3'	8-16	101.7	14.8	152.5	
3486	Black Mark	A&C	18"	3'	8-11	96.7	14.1	145.0	
5677	Black Bell	G	18"	3'	8-16	91.7	13.3	275.0	
6261	Voodoo	H	18"	3'	8-16	78.3	11.4	117.5	
5470	Early Prolific	Al	18"	3'	8-30	35.0	5.1	105.0	
6323	Long Violet	SS	18"	3'	9-1	31.7	4.6	95.0	
5678	Pick Me Quick	G	18"	3'	8-11	31.7	4.6	47.5	
5870	Black Beauty	NK	18"	3'	—	—	—	—	
5869	Midnite	NK	18"	3'	—	—	—	—	
5871	Jap. Long Purple	NK	18"	3'	—	—	—	—	

^aSee seed-source list.

Note: Greenhouse-grown plants, 65 days old, were transplanted into the field June 3, 1982. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 10. Green Pea Variety Trials, Bottomland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Block size	First Harvest	Yield ^b (lb/100 ft ²)	Comments
5967	Novella	St	6' x 12'	8-3	77.9	semi leafless
6059	Patriot	P	6' x 12'	7-27	75.9	excellent flavor
6384	Sweetsnap	Bu	1' x 12'	7-23	75.0*	snap pea
5933	Sparkle	Tw	6' x 12'	8-3	61.2	consistent high yield
6313	Proto IV	WE	6' x 12'	8-3	60.2	semi leafless
6312	Alpha I	WE	6' x 12'	8-3	60.1	
6393	Pacemaker	SS	3' x 12'	7-23	60.0	
5934	Green Arrow	Tw	6' x 12'	8-6	59.2	
6317	Lacy Lady	VB	6' x 12'	8-3	59.1	semi leafless
6135	Early Snap	Ag	6' x 12'	7-27	57.9	snap pea
6048	Sugar Rae	J	6' x 12'	7-27	46.6	snap pea
6318	Hustler	VB	6' x 12'	7-23	38.2	
5968	Super Sweetpod	St	3' x 12'	8-3	35.1	edible pod
3273	Sugar Snap	Bu	6' x 12'	8-3	29.3	snap pea

^aSee seed-source list.^bYield in lb/100 sq. ft. (bulk planting).

*Yield in lbs/100' row.

Note: Peas were seeded in bottomland plots May 25, 1982. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 11. Crisphead Lettuce Variety Trials, Bottomland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing plant row		First Harvest	Average wt. (gm)	Yield (lb/100')	Av. Core Length Rating ^b	Av. Density Rating ^c	Comments
5963	Ithaca	St	1'	3'	8-4	1373.2	302.7	2.2	3.6	
4323	Montello	Tw	1'	3'	8-4	1110.0	244.7	1.2	4.1	sweet, very good flavor
4322	Green Lake	Tw	1'	3'	8-4	1084.5	239.1	1.2	4.0	
4397	Frontier	QS	1'	3'	8-11	1497.0	206.3	2.0	4.8	
5965	Minilake	St	1'	3'	8-4	918.1	202.4	1.5	4.0	
4509	Commander	K	1'	3'	8-11	1676.0	188.4	2.1	3.5	
6215	Oswego	Se	1'	3'	8-4	1088.3	179.9	1.0	2.8	good flavor
6356	Lake Nyah	As	1'	3'	8-11	1497.5	82.5	2.0	3.2	
6355	Lake Powell	As	1'	3'	8-11	2025.0	53.3	2.0	5.0	only one head harvested
4398	Conquest	QS	1'	3'	8-27	1760.0	48.5	1.5	4.0	" "
3702	Great Lakes 366A	D	1'	3'	8-11	1330.0	36.7	2.0	2.0	" "
5873	Great Lakes 118	NK	1'	3'	8-11	1305.0	36.0	1.5	4.0	" "
3706	New York 12	D	1'	3'	—	—	—	—	—	bolted
3705	Great Lakes 659	D	1'	3'	—	—	—	—	—	did not form usable heads
3708	New York 515	D	1'	3'	—	—	—	—	—	" "
3703	Great Lakes 407	D	1'	3'	—	—	—	—	—	bolted
5964	Prem. Great Lakes	St	1'	3'	—	—	—	—	—	did not form usable heads
6153	Salanis	T&T	1'	3'	—	—	—	—	—	bolted

^aSee seed-source list.^bCore length is noted from 1 to 5 with 1 the shortest, most desirable, and 5 the longest.^cDensity is noted from 1 to 5 with 1 the least dense and 5 the densest and most desirable.

Note: Lettuce was seeded May 26, 1982. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 12. Pepper Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
1825	Cadice	S&G	1'	3'	8-2	540.8	119.2	70.5	bell, consistent high yields
6057	Park's Early Thickset	P	1'	3'	8-2	451.7	99.6	56.5	bell, new
5925	Early Prolific	Tw	1'	3'	7-28	424.2	93.5	59.2	bell, consistent high yields
6136	Italian Sweet	Ag	1'	3'	7-28	395.8	87.3	38.3	long
5737	Gypsy	AAS	1'	3'	7-28	349.2	77.0	51.1	
5048	Faribo Hybrid	F	1'	3'	7-30	321.0	70.8	61.7	bell
6137	Surefire	Ag	1'	3'	8-2	303.3	66.9	29.8	hot
4781	Early Bountiful	G	1'	3'	8-2	293.3	64.7	56.8	bell
5200	Earliest Red Sweet	St	1'	3'	8-18	237.5	52.4	46.0	bell
6198	Hot Portugal	H	1'	3'	9-1	226.3	49.9	30.2	very hot
6098	Improved Cubanella	A&C	1'	3'	8-30	226.0	49.8	43.5	
5924	Pro-Belle	Tw	1'	3'	8-23	210.8	46.5	57.5	bell
5882	Hung. Yel. Hot Wax	NK	1'	3'	8-13	209.2	46.1	20.6	hot
6097	Green Belle	A&C	1'	3'	8-11	206.7	45.6	82.7	bell
6042	Karlo	J	1'	3'	8-18	200.8	44.3	28.7	hot
6220	Zippy	Bu	1'	3'	8-18	185.8	41.0	11.0	
6108	Peter Piper	F	1'	3'	8-9	141.7	31.2	85.0	bell
5565	Lady Bell	H	1'	3'	8-9	135.0	29.8	73.6	bell
6331	Goldstar	As	1'	3'	8-30	41.7	9.2	62.5	bell
5482	King of the North	T&T	1'	3'	8-30	36.7	8.1	55.0	bell
5969	Crimson Hot	St	1'	3'	—	—	—	—	
6155	Early Jalapeno	T&T	1'	3'	—	—	—	—	

^aSee seed-source list.

Note: Greenhouse-grown plants, 65 days old, were transplanted into the field on June 3, 1982. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 13. Potato Variety Trials, Bottomland Peat, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (lb/100')	Yield Ton/Acre	Average wt. (lb)	Comments
			plant	row					
—	Bakeking	AK	1'	3.3'	9-3	328	21.6	.5	high quality, good baking potato
—	Green Mountain	AK	1'	3.3'	9-3	274	18.0	.5	numerous dumbbell-shaped tubers
249	Norgold Russet	P&S	1'	3.3'	9-3	272	17.9	.5	
233	Alaska Red	CD	1'	3.3'	9-3	262	17.3	.4	good-quality, white-fleshed red
—	Rote Erstling	AK	1'	3.3'	9-3	254	16.8	.5	excellent early yellow-fleshed red
—	Alaska 114	AK	1'	3.3'	9-3	228	15.0	.4	numerous dumbbell-shaped tubers
227	83-13	CD	1'	3.3'	9-3	188	12.4	.4	good quality
—	Swedish Potatoes	AK	1'	3.3'	9-3	106	7.0	.1	

^aSee seed-source list.

Note: Potatoes were planted May 25, 1982 in bottomland soils that were amended in 1975 with 1000 yd³/A peat obtained from the College peat bogs. The pH of the peat amended soil was ca 5.5. Fertilizer application was 1145 lb/A 10-20-20 prior to rototilling.

Table 14. Pumpkin Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
5970	Connecticut Field	St	8'	8'	9-1	60155.0	1657.7	10025.8	consistent high yield
6145	Half Moon	Tw	8'	8'	9-1	51983.0	1432.5	8663.8	
5105	Funny Face	Tw	8'	8'	9-1	50621.0	1395.0	5955.4	
6199	Howden	H	8'	8'	9-1	46535.0	1282.4	11633.8	very large fruit
6043	New England Pie	J	5'	8'	9-1	22927.0	1010.9	1528.5	small fruit for home use
4978	Little Boo	Ag	8'	8'	9-1	24402.5	672.5	4436.8	white skin

^aSee seed-source list.

Note: Greenhouse-grown plants, 32 days old, were transplanted into the field on June 4, 1981. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 15. Snapbean Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing Row	First Harvest	Yield (lb/100')	Comments
5667	Dwarf Contender	Hb	3'	8-3	148.9	
6391	Bountiful	SS	3'	8-3	146.5	flat
5169	Honey Gold	St	3'	8-3	146.2	wax bean
3461	Rogers 1604	RB	3'	8-3	145.0	excellent flavor
5853	Spartan Arrow	NK	3'	8-3	135.5	good flavor
5943	Strike	St	3'	8-6	127.4	
6031	Beurre de Rocquencourt	J	3'	8-3	125.5	wax bean, excellent color and flavor
5931	Contender	Tw	3'	8-3	111.3	
5666	Provider	Hb	3'	8-3	107.9	
6029	Limelight	J	3'	8-3	101.8	flat
5852	Green Crop	NK	3'	8-3	75.7	very long, tender, sweet flavor
6314	Daisy	VB	3'	8-3	70.7	
6090	Roma II	A&C	3'	8-3	69.1	flat
6209	Executive	Se	3'	8-6	61.4	
6302	Burpee's Brittle Wax	Bu	3'	8-3	59.8	wax bean, poor quality
6089	Experimental 116	A&C	3'	8-3	43.1	
5944	Gator Green	St	3'	8-3	34.8	poor germination
6311	Epoch	WE	3'	8-30	26.5	
5437	Goldimmens	E	3'	8-3	24.2	wax bean, poor color, poor germination
5854	Bush Blue Lake 274	NK	3'	8-16	19.6	
5606	Plano	E	3'	—		late
6091	Kentucky Wonder Bush	A&C	3'	—		no germination
6231	Dubresco	WD	3'	—		no germination

^aSee seed-source list.

Note: Beans were seeded into upland plots May 26, 1982. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 16. Summer Squash Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
3507	Greenzini	FM	3'	5'	7-13	17445.0	1280.7	441.6	consistent high yields, good quality
6205	Zucchini Elite	H	3'	5'	7-13	16537.5	1214.1	408.3	good quality
5281	Greyzini	NK	3'	5'	7-13	16515.0	1212.4	317.6	consistent high yields, good quality
6221	Richgreen	Bu	3'	5'	7-13	13750.0	1009.4	376.7	
5888	Black Zucchini	NK	3'	5'	7-13	13582.5	997.1	343.9	
6061	Kuta	P	3'	5'	7-13	12380.0	908.8	495.2	lt. green, can be used as summer or winter squash
6062	Aristocrat	G	3'	5'	7-13	10892.5	799.6	351.4	
5665	Gold Rush	Hb	3'	5'	7-13	10885	799.1	306.6	bright gold zucchini, good quality
6062	Black Magic	P	3'	5'	7-13	10727.5	787.5	466.4	
6329	Ingot	SS	3'	5'	7-13	10692.5	785.0	213.9	yellow
6328	Market King	SS	3'	5'	7-13	9312.5	683.7	365.2	
5890	Seneca Prolific	NK	3'	5'	7-13	8167.5	599.6	223.8	crookneck
6330	Moneymaker	SS	3'	5'	7-19	6892.5	506.0	183.8	yellow
5891	Daytona	NK	3'	5'	7-23	2827.5	207.6	145.0	yellow
6327	E. Sum. Crookneck	SS	3'	5'	8-9	2240.0	164.4	154.5	crookneck

^aSee seed-source list.

Note: Greenhouse-grown plants, 25 days old, were transplanted into the field on June 4, 1982. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 17. Winter Squash Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row					
4417	Boston Marrow	A&C	8'	8'	9-1	32461.0	894.5	8115.3	orange, large fruits, high yields, good quality
5895	Sweet Meat	NK	5'	8'	9-1	17025.0	750.7	5675.0	grey-green
5894	Pink Banana	NK	8'	8'	9-1	20657.0	569.3	8262.8	pink-orange, consistent high yields, good quality
5178	Sweet Mama	St	5'	8'	9-1	11577.0	510.4	2315.4	dark green, high quality
5179	Golden Hubbard	St	8'	8'	9-1	15776.5	434.8	3155.3	orange, good quality
5928	Buttercup	Tw	8'	8'	9-1	10782.5	297.1	2695.6	dark green, high quality
2018	Faribo Hybrid R	F	8'	8'	9-1	9534.0	262.7	2118.7	yellow, excellent quality, early
5893	Kindred	NK	8'	8'	9-1	9420.5	259.6	1449.3	yellow-orange
6047	Baby Blue	J	8'	8'	9-1	8966.5	247.1	1793.3	aqua, good quality
6204	Table Ace ^b	H	5'	8'	9-1	3859.0	170.1	964.8	(acorn squash, will not set fruit early enough for good yields without photoperiod treatment)
6204	Table Ace	H	5'	8'	9-1	1475.5	65.1	1475.5	

^aSee seed-source list.

^bEarly flowering and fruit set induced by artificially imposed 8-hour day length for 2 weeks prior to transplanting (day-length treatment may not be effective with other varieties).

Note: Greenhouse-grown plants, 32 days old, were transplanted into the field on June 5, 1981. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 18. Sweet Corn Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Days to Harvest	Yield (gm/plant)	Yield (lb/100')	Average wt. (gm)	Comments
			plant	row						
5424	Onthyb 804	Si	1'	5'	9-3	113	876.4	193.2	304.8	high quality
5954	Earlivee	St	1'	5'	8-23	102	743.9	164.0	297.6	early, high quality
5484	Early Arctic	T&T	1'	5'	8-27	106	663.3	146.2	331.6	
3336	Northern Vee	St	1'	5'	8-18	98	589.5	130.0	298.5	early
5955	Polar Vee	St	1'	5'	8-13	92	581.1	128.1	247.3	uniform, very early
4500	Sunny Vee	St	1'	5'	9-10	120	580.7	128.0	368.7	
5425	Onthyb 805	Si	1'	5'	9-10	120	577.0	127.2	325.1	
3479	Morning Star	V	1'	5'	8-27	106	526.5	116.1	288.5	high quality
5427	Onthyb 741	Si	1'	5'	9-10	120	473.6	104.4	310.6	
5423	Onthyb 803	Si	1'	5'	9-10	120	453.9	100.1	330.1	
5952	Butter Vee	St	1'	5'	9-3	113	449.3	99.0	339.1	
5332	Sugar & Gold	Se	1'	5'	9-3	113	412.6	91.0	229.2	purple husks, bicolor
6112	Faribo Sugar & Gold	F	1'	5'	9-3	113	403.4	88.9	233.8	purple husks, bicolor
4528	Candidawn	S	1'	5'	9-10	120	346.5	76.4	322.2	
----	Yukon Chief	AK	1'	5'	8-13	92	322.5	71.1	165.4	var. ears, very early
5897	Earliking	NK	1'	5'	8-27	106	318.3	70.2	318.3	
5429	Onthyb 809	Si	1'	5'	9-10	120	287.5	63.4	302.6	
5426	Onthyb 806	Si	1'	5'	9-10	120	277.0	61.1	257.7	
5488	T&T Sweet Beauty	T&T	1'	5'	9-10	120	238.8	52.6	318.3	
5167	Seneca Sunbeam	St	1'	5'	9-10	120	223.9	49.4	389.3	
5165	Northlite	St	1'	5'	9-14	124	203.1	44.8	325.0	
4485	Dawn	Al	1'	5'	9-14	124	174.0	38.4	331.4	
5932	Early Sunglow	Tw	1'	5'	9-14	124	167.4	36.9	267.8	
5953	Seneca Horizon	St	1'	5'	9-14	124	166.6	36.7	444.3	
6310	Borealis	SS	1'	5'	8-30	109	161.6	35.6	239.4	
6217	Seedway Beauty	Se	1'	5'	9-14	124	139.6	30.8	310.3	
3410	Morden 71276	RB	1'	5'	9-24	134	131.3	28.9	375.0	
6307	Silver Sweet	Bu	1'	5'	9-17	127	98.4	21.7	207.1	white
5081	Ashworth	J	1'	5'	8-30	109	82.5	18.2	194.1	
5333	Early Sunray	Se	1'	5'	9-24	134	77.8	17.1	311.0	
5898	Butter & Sugar	NK	1'	5'	9-17	127	58.3	12.8	258.9	bicolor
5950	Early Gold & Silver	St	1'	5'	9-14	124	56.6	12.5	283.1	bicolor
6111	First In	F	1'	5'	9-10	120	36.3	8.0	290.0	
5561	Sprite	H	1'	5'	9-24	134	16.0	3.5	320.0	
6316	Pearls and Gold	VB	1'	5'	—	—	—	—	—	
6234	Peaches & Cream	WD	1'	5'	—	—	—	—	—	
4404	Six Shooter	Gu	1'	5'	—	—	—	—	—	
5596	Earliglo	T&M	1'	5'	—	—	—	—	—	
5164	Golden Vee	St	1'	5'	—	—	—	—	—	

^aSee seed-source list.

Note: Sweet corn was seeded May 13, 1982, and covered with 1.5-mil clear polyethylene. After plants were approximately 4' tall, slits were made to allow plants to emerge from beneath the plastic. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 19. Tomato Variety Trials, Upland, 1982.

A. E. S. Accession No.	Variety	Source ^a	Spacing		First Harvest	Yield (gm/plant)	Yield (lb/100 ²)	Average wt. (gm)	Comments
			plant	row					
6010	Ida Gold	UI	2.3'	5'	8-6	1300.0	122.9	30.5	gold color, unusual flavor early
6045	JSS #3570	J	2.3'	5'	8-4	1201.7	113.6	37.2	
6011	Gem State	UI	2.3'	5'	8-13	790.0	74.7	32.9	prominent nipple early, top yielder 1981
5941	Shoshone	UI	2.3'	5'	8-2	745.0	70.5	29.4	
5497	Sub Arctic Cherry	Gr	2.3'	5'	8-2	500.7	47.4	10.5	early, cherry
5935	Santa	UI	2.3'	5'	8-9	483.3	45.7	26.9	
6157	Centennial Rocket	T&T	2.3'	5'	7-28	352.5	33.3	35.3	high yielding 1981 high yielding 1981, good flavor
5940	Latah	UI	2.3'	5'	8-23	350.0	33.1	41.2	
5938	Bonner	UI	2.3'	5'	8-18	320.0	30.3	38.4	
5942	Sandpoint	UI	2.3'	5'	8-23	216.7	20.5	38.2	
3475	Tanana	F	2.3'	5'	8-16	138.3	13.1	51.9	
6114	Faribo Spring Time	F	2.3'	5'	9-1	116.7	11.0	38.9	
6046	Earlibright	J	2.3'	5'	9-1	10.0	0.9	30.0	
6101	Duchess	A&C	2.3'	5'	—	—	—	—	
5900	Sheyenne	NK	2.3'	5'	—	—	—	—	
6113	Sunset	F	2.3'	5'	—	—	—	—	
5929	Sprinter	Tw	2.3'	5'	—	—	—	—	
5975	Swift	St	2.3'	5'	—	—	—	—	
5939	Kootenai	UI	2.3'	5'	—	—	—	—	
5899	Super Sioux	NK	2.3'	5'	—	—	—	—	
5206	Starfire	St	2.3'	5'	—	—	—	—	
6012	Benewah	UI	2.3'	5'	—	—	—	—	
5974	Starshot	St	2.3'	5'	—	—	—	—	
6158	Mustang	T&T	2.3'	5'	—	—	—	—	

^aSee seed-source list.

Note: Greenhouse-grown plants, 45 days old, were transplanted into the field June 3, 1982. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 20. Container Tomato Variety Trials, 1982.

A. E. S. Accession No.	Variety	Source ^a	First Harvest	Yield (gm/plant)	Average wt. (gm)	Comments
6222	Basket King	Bu	7-30	1267.5	30.9	
6308	Burpee's Pixie	Bu	7-30	1180.0	58.3	very good flavor
6206	Presto	H	7-30	1012.5	34.0	
5610	City Best	P	8-14	840.0	70.0	very good flavor, largest fruit
5902	Patio	NK	8-21	383.8	73.1	

^aSee seed-source list.

Note: Greenhouse-grown plants were seeded April 19, 1982, and transplanted into 8½" x 8½" no. 2 nursery containers and grown in the greenhouse until ca. June 1, 1982, when they were placed outdoors. Plants were fertilized weekly with 20-20-20 soluble fertilizer applied at a rate of 1 tablespoon per gallon of water.

Table 21: Miscellaneous Vegetables Tested

Crop	Source	Comment
Artichokes (Globe)		
No. 5590 Grand Beurre	T&M	first harvest 8-9, yielded 680g/plant, excel. flavor
No. 5067 Green Globe	Bu	first harvest 8-9, yielded 771g/plant, excel. flavor
Beets		
No. 6103 Faribo Champion	F	tendency to bolt
No. 5962 Mono Germ	St	tendency to bolt
No. 5909 Pacemaker II	Tw	good
No. 6087 Red Ace	A&C	good
No. 5855 Ruby Queen	NK	tendency to bolt
No. 6088 Sangria	A&C	excellent
No. 5978 Spring Red	St	good
No. 6102 Sweetheart	F	bolted
Chinese Vegetables – Cabbage		
No. 6194 Early Hybrid G	H	bolted
No. 5912 Jade Pagoda	Tw	tall straight shape, tendency to bolt
No. 5860 Michihli	NK	tendency to bolt
No. 6034 Nagoda	J	bolted
No. 6035 Spring A-1	J	bolted
No. 4318 Statue	Tw	bolted
No. 6305 Two Seasons	Bu	typical rounded shape, good quality, slowest to bolt
No. 5905 Wong Bok	NK	bolted
No. 5661 50 Days	Hb	bolted
Chinese Vegetables – Daikon (Radish)		
No. 5887 Daikon Long	NK	bolted
No. 5885 Shogoin Giant	NK	bolted
No. 4391 Tokinashi (All Seasons)	J	satisfactory
Chinese Vegetables – Greens		
No. 5353 Green Lance Kale	WD	not productive
No. 5878 Kai Choy Mustard	NK	bolted
No. 4823 Lei Choy	Bu	use at small size, before bolting
No. 5879 Pak Choy	NK	satisfactory
Dill		
No. 4313 Dukat	Ag	satisfactory
No. 4069 Long Island Mammoth	NK	satisfactory
No. 3297 Tuve	Ag	satisfactory
Greens		
No. 6105 Burgundy Rhubarb Chard	F	bolts if not harvested promptly
No. 5917 Champion Collard	Tw	satisfactory
No. 6106 Colbaga	F	satisfactory
No. 6054 Hicrop Collard	P	satisfactory
No. 5272 Vates Kale	NK	satisfactory
No. 1906 White King Chard	St	satisfactory, large size

continued, next page

Table 21, continued

Crop	Source	Comment
Herbs		
No. 4049 Anise	Bu	marginal
No. 6383 Basil, Green Bonquet	Bu	withstands cooler weather
No. 5003 Basil, Holy	P	satisfactory
No. 3822 Basil, Lettuce Leaf	P	satisfactory
No. 5004 Basil, Minimum	P	withstands cooler weather
No. 5002 Basil, Park's Lemon	P	satisfactory
No. 5435 Basil, Piccolo Verde	E	satisfactory
No. 4381 Chervil	J	satisfactory, bolts by August
No. 3821 Chives	P	satisfactory
No. 4382 Coriander	J	satisfactory
No. 5072 Fennel, Florence	Bu	satisfactory
No. 4383 Horehound	J	satisfactory
No. 6058 Melissa Officinalis (Balm)	P	satisfactory
No. 6216 Oregano	Se	atypical flavor
No. 6004 Peppermint	G	satisfactory
No. 5213 Rosemary	St	satisfactory
No. 5662 Safflower	Hb	needs warm weather
No. 5663 Sage, Broad Leaf	Hb	satisfactory
No. 2055 Summer Savory	NK	satisfactory
No. 2057 Thyme, English	NK	satisfactory
No. 5664 Thyme, French	Hb	satisfactory, milder
Kohlrabi		
No. 4996 Azurstar	P	good quality, purple
No. 3481 Grand Duke	A&C	good quality
No. 1983 Prima	Bu	earliest, good quality
No. 5922 Purple Danube	Tw	satisfactory
Leeks (seeded March 15, 1982, transplanted May 28, 1982)		
No. 4343 Giant Elephant	WD	av. wt. 123g, yielded 148 lb/100'
No. 4388 King Richard	J	av. wt. 179g, yielded 163 lb/100', excel. qual., long necks
No. 5598 Musselburgh Improved	T&M	av. wt. 138g, yielded 138 lb/100', variable, short necks
Lettuce, Bibb		
No. 5605 All the Year Round	E	unsatisfactory
No. 5877 Manoa Bibb	NK	bolted
No. 6096 Orfeo	A&C	good quality, buttery
No. 6085 Ostinata	St	earliest, satisfactory
No. 6095 Rigoletto	A&C	good quality, buttery
No. 6197 Summer Bibb	H	dark green, good quality
Lettuce, Leaf		
No. 5874 Oak Leaf	NK	excellent
No. 5461 Prizehead	Al	red tipped, early
No. 5609 Red Salad Bowl	P	slow to bolt
No. 5875 Ruby	NK	red, good quality
No. 5876 Salad Bowl	NK	good quality

continued, next page

Table 21, continued

Crop	Source	Comment
Onions (seeded March 12, 1982, transplanted May 28, 1982)		
No. 5481 Autumn Spice	T&T	unsatisfactory, no large bulbs
No. 5480 Bullring	T&T	unsatisfactory, no large bulbs
No. 5473 Early Shipper	C	produced a few large bulbs
No. 1778 He-shi-ko Green Onion	D	direct seed, harvestable size 8-1
No. 5474 Ringmaker	C	has potential, many large bulbs
Parsley		
No. 4300 Curlina	St	excellent
No. 5966 Darki	St	excellent
No. 3480 Decorator	A&C	excellent
No. 5088 Delikat	J	excellent
No. 5103 Impr. Market Gardeners	Tw	excellent
Parsnips		
No. 5411 Fullback	D	av. wt. 101g, yielded 201 lb/100', stumpy shape
No. 5880 Improved Hollow Crown	NK	av. wt. 164g, yielded 144 lb/100', very long
No. 6107 White Model	F	av. wt. 58g, yielded 123 lb/100', very long, thin
Radishes		
No. 3343 All Seasons White	Bu	late, satisfactory
No. 5926 Cherry Beauty	Tw	poor quality
No. 5252 Cherry Belle	NK	good quality, mild
No. 6110 Crimson Giant	F	bolted
No. 6201 Fancy Red	H	tendency to bolt
No. 6109 Faribo White Snowball	F	satisfactory
No. 5884 Giant White Globe	NK	large tap root, tendency to bolt
No. 5927 Inca	Tw	good quality
No. 6044 Marabelle	J	nice shape, hot
No. 6099 Red Baron	A&C	bolted
No. 6200 Summer Cross	H	bolted
No. 6319 Tama Winter	VB	bolted
Rutabaga		
No. 6320 American Yellow	VB	succumbed to root maggots
No. 6202 Macomber	H	succumbed to root maggots
No. 5971 The Laurentian	St	succumbed to root maggots
Spinach		
No. 6203 Fabris	H	satisfactory
No. 5451 Indian Summer	S	bolted
No. 5176 Melody	St	best spinach, resistant to bolting
No. 6326 No. 7241	SS	satisfactory
No. 6100 Vienna	A&C	spring seeding bolted, good quality spinach from early August seeding
No. 5362 Vital-R	WD	spring seeding bolted, good quality spinach from early August seeding
No. 5070 Tampala	Bu	no germination
Turnips		
No. 3814 Tokyo Cross	P	satisfactory
No. 4380 Tokyo Top	J&P	slower to bolt

SEED SOURCES

A	Asgrow Seed Co., Subsidiary of the Upjohn Co., Kalamazoo, MI 49001
AAS	All-America Selections, 4546 El Camino Real, Suite A, Los Alto, CA 94022
A&C	Abbot and Cobb, Inc., P. O. Box 307, Feasterville, PA 19124
Ag	Agway Inc., Seed Division, Box 4933, Syracuse, NY 13221
AK	Alaska Agriculture Experiment Station, Fairbanks, AK 99701
Al	Alberta Nurseries & Seeds, Ltd., Box 20, Bowden, Alberta T0M 0K0, Canada
ARZ	A.R. Zwaan en Zoon B.V., Prinses Mariannelaan 296, P. O. Box 992, 2270 AZ Voorburg, The Netherlands
As	Asmer Seeds Ltd., Asmer House, Ash Street, Leicester, LE50DD England
Bu	W. Atlee Burpee Co., 6350 Rutland Ave., Box 748, Riverside, CA 92502
C	Crookham Co., P. O. Box 520, Caldwell, ID 83605
CD	Dearborn Farms, SR A, Box 6124, Palmer, AK 99645
D	Dessert Seed Co., P. O. Box 181, El Centro, CA 92243
E	Epicure Seeds, Box 69, Avon, NY 14414
F	Farmer Seed & Nursery Co., Faribault, MN 55021
FM	Ferry-Morse Seed Co., P. O. Box 100, Mountain View, CA 94042
G	H. G. German Seeds, Inc., Box N, Smethport, PA 16749
Ge	Germania Seed Co., 5952 N. Milwaukee Ave., Chicago, IL 60646
Gr	Grace's Gardens, 22 Autumn Lane, Hackettstown, NJ 07840
Gu	Gurney Seed and Nursery Co., Yankton, SD 57079
H	Joseph Harris Co., Inc., Moreton Farm, Rochester, NY 14624
Hb	Herbst Brothers Seedsmen, Inc., 1000 N. Main St., Brewster, NY 10509
J	Johnny's Selected Seeds, Albion, ME 04910
J&P	Jackson & Perkins Co., Medford, OR 97501
K	Keystone Seed Co., P. O. Box 1438, Hollister, CA 95023
Ka	Arvo Kallio, 340 E. Lismore Rd., Duluth, MN 55804
M	Mountain Seed & Nursery, Box 271, Rt. 1, Moscow, ID 83843
McF	McFayden Seed Co. Ltd., P.O. Box 1600, Brandon, Manitoba R7A 6A6, Canada
NK	Northrup King & Co., 1500 Jackson St., N.E., Minneapolis, MN 55413
P	George W. Park Seed Co., Box 31, Greenwood, SC 29647
P&S	Pay 'N Save Stores, Fairbanks, AK
QS	Quali-Sel Inc., 11 W. Laurel Ave., Suite 125, Salinas, CA 93901
RB	Rogers Brothers Co., P. O. Box 1674, Idaho Falls, ID 83401
RZ	Rijk Zwaan Zaadteelt en Zaadhandel B.V. Burgem. Crezeelaan 40 DeLier (Holland) Postbus 40, 2678 ZG DeLier, The Netherlands
S	Siegers Seed Co., 7245 Imlay City Rd., Imlay City, MI 48444
Se	Seedway, Inc., Hall, NY 14463
S&G	Sluis & Groot of America, 124A Griffin St., Salinas, CA 93907
Si	Horticultural Experiment Station, Box 587, Simcoe, Ontario N3Y 4N5, Canada
SS	Sun Seeds, 9531 W. 78th St., Suite 229, Eden Prairie, MN 55344
St	Stokes Seeds, Inc., 5008 Stokes Bldg., Buffalo, NY 14240
T&M	Thompson & Morgan, Inc., Box 100, Farmingdale, NJ 07727
T&T	T & T Seeds Ltd., Box 1710, Winnipeg, Manitoba R3C 3P6, Canada
Tw	Otis S. Twilley Seed Co., Inc., P. O. Box 65, Treviso, PA 19047
U	W. J. Unwin, Ltd., P. O. Box 9, Farmingdale, NJ 07727
UI	A.A. Boe., U. of Idaho, College of Agriculture, Dept. of Plant & Soil Sciences, Moscow, ID 83843. (May be available from Mountain Seed, see above.)
V	Vesey's Seeds, Ltd., York, Prince Edward Is. COA 1P0, Canada
VB	Vermont Bean Seed Co., Garden Lane, Bomoseen, VT 05732
WD	William Dam Seeds, P. O. West Flamboro, Ontario L0R 2K0, Canada
WE	Wilbur Ellis Co., Seed Division, 12001 Empire Way, Spokane, WA 99206