

SUMMARY  
of  
VEGETABLE VARIETY TRIALS  
FAIRBANKS, ALASKA  
1978

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## SUMMARY OF VEGETABLE VARIETY TRIALS FAIRBANKS, ALASKA, 1978

### Introduction

This report summarizes the vegetable variety research evaluations of the Horticulture Department of the University of Alaska, Fairbanks, 1978. Variety trials were conducted at the Agricultural Experiment Station's research farm.

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 cultural techniques. The selection effort is directed at finding varieties useful to commercial and home garden growers.

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 for comparison.

In the past, 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 program. Progress can be made more rapidly by selection than by breeding.

### Growing-Season Summary

The 1978 growing season was quite different from the nine previous seasons we have experienced. Snow left the ground early and we were able to start planting earlier than normal, although not earlier than some of the previous nine years. The last ten days in May and the entire month of June were much colder than normal with a great deal of cloudy weather. It is normal for May and June to be mostly clear and this coupled with the longest daylength usually provides some of the best growing weather for a crop once it is established.

July was a good month in terms of temperatures for crop growth; as a result, most cool-season crops matured near their usual time. Temperatures during the month of August were above normal which allowed the growth of the warm-season crops to progress to near normal by the end of the month. Normally we do not expect September to contribute significantly to the growing season; however, this year we did not receive a killing frost on the farm until September 27, which gave us a growing season 3 weeks longer than usual. This season extension was significant for the late-planted crops and certain of the warm-season crops.

Soil-moisture deficiencies were apparent throughout the season. More supplemental irrigation was required than in previous seasons. Rainfall at the Fairbanks Experiment Station is shown in the following table (Table 1).

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Table 1: Rainfall by Month  
During the 1978 Growing Season.

Month	Inches
May	0.35
June	1.48
July	2.08
August	1.60
September	1.19
TOTAL	6.7

The soil temperatures of the various plots appeared to be near normal for most of the season. As usual, crop growth was greatly improved where soil temperature was improved.

The fertilization rate used for the various trials is probably a bit on the low side when compared to the rate which might be used by some commercial growers. Deficiency symptoms were noted for boron and molybdenum on several sites. Certain sites received broadcast applications of 1 lb/A boron and 0.8 lb/A molybdenum during the fall prior to planting. This treatment reduced evidence of deficiencies in these elements.

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



Table 2. Broccoli Variety Trial, Upland, Fairbanks, 1978.

A.E.S. Accession #	Variety (transplants)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Terminal x̄ wt (g)	Yield (lb/100')	Comments
2199	Green Duke	NK	15"x3.3'	7-10	699	112	Very large late laterals, outstanding
1836	Regal	Hb	"	7-10	626	105	Variable quality, doesn't look like hybrid
1765	Green Umbrella	D	"	7-10	576	97	Good
1854	Green Dwarf	S	"	7-10	556	93	Dwarf plants with compact terminal, very nice laterals
1792	Gem	A	"	7-13	520	87	
1856	Dandy ½5	S	"	7-10	483	81	
1816	SGI	SG	"	7-10	470	79	
1855	Dandy Early	S	"	7-13	467	78	
1896	Green Comet	St	"	7-13	440	74	
1793	Futura	A	"	7-10	401	67	Very uniform in maturity (all terminals harvested same day)
1817	Southern Comet	SG	"	7-10	401	67	Better than Green Comet
1269	Premium Crop	AAS	"	7-13	373	63	
1897	Green Hornet	St	"	7-10	346	58	
1766	Green Globe	D	"	7-10	330	55	

<sup>a</sup> See Seed Sources list.

NOTE: Greenhouse-grown transplants 29 days old planted into the field May 18.

Fertilizer application: 1120 lb/A 10-20-10 applied prior to rototilling. The sulfate form of potassium was used in the mix. 1 lb/A B and .8 lb/A Mo also applied prior to rototilling.

Table 3. Cabbage Variety Trials, Upland, Fairbanks, 1978

A.E.S. Accession #	Variety (transplants)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Head $\bar{x}$ Wt (g)	Yield (lb/100')	Average Core Length <sup>b</sup> Rating	Average Density Rating <sup>c</sup>	Comments
1819	Greyhound	SG	12" X 3.3"	7-20	620	139	2.2	3.2	Pointed type
1818	Baby Early Red	SG	"	8-10	1121	251	2.4	4.6	
1867	Tokyo Pride	S	"	7-31	1168	261	2.0	3.6	
9354	Ruby Ball	H	"	8-08	1282	287	2.8	4.8	Good red
1864	Leo	S	"	8-08	1338	299	4.4	3.0	
2037	Meteor (red)	NK	"	8-07	1349	302	3.1	4.4	
2142	Savoy Ace	AAS	"	8-07	1374	307	2.8	4.0	Best savoy
1865	Chogo	S	"	7-31	1378	308	3.2	4.0	
1698	Wizard	NK	"	8-07	1478	331	3.0	4.5	Nice cabbage, good size
1863	Utopia	S	"	8-10	1515	339	3.0	3.4	
1866	Princess	S	"	7-20	1651	369	3.6	3.2	Disappointing
3001	Green Boy	NK	"	8-10	1688	378	3.2	3.4	
1890	Tastie	St	"	7-31	1702	381	2.2	5.0	Excellent, dependable
2032	Hybrid 15	H	"	8-07	1711	383	3.0	4.2	
2031	Hybrid H	H	"	8-29	1858	416	4.2	3.2	No good
1891	Red Head	St	"	8-23	1900	425	3.6	3.8	Poor
2163	Great Bowling Ball	Hb	"	8-23	2397	536	2.4	4.0	
3000	Hercules	NK	"	8-23	2563	574	2.4	4.0	
2007	Polaris	Ho	"	8-23	2865	641	3.4	5.0	
2187	Erin	Al	"	8-23	2878	644	2.4	4.4	Flavor excellent
6467	Alaska 6467	AC	20" X 3.3'	9-12	4357	585	Not Sampled		

<sup>a</sup> See Seed Sources List.

<sup>b</sup> Core length rating involves an index wherein a core index of 1 is the shortest and most desirable and a core index of 5 is the longest, almost bursting through the head.

<sup>c</sup> Density rating involves an index in which 1 is the least dense and 5 the most dense and most desirable.

NOTE: Greenhouse-grown transplants 29 days old planted into the field May 18.

Fertilizer application: 1120 lb/A 10-20-10 applied prior to rototilling. The sulfate form of potassium was used in the mix.  
1 lb/A B and .8 lb/A Mo also applied prior to rototilling.



Table 4. Carrot Variety Trial, Bottomland, Fairbanks, 1978

A.E.S. Accession #	Variety (seeded)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Marketable Yield (lb/100')	Comments
1206	Nantes Special Long	St	1/2 to 1" X 2'	9-5	293	Best market carrot
1880	Spartan Bonus	St	"	"	269	
1323	Des Dan	D	"	"	260	
1693	Gold King	NK	"	"	246	Flavor very nice, carrots very large
1764	Spartan Winner	C	"	"	243	
1881	Royal Chantenay	St	"	"	236	
2030	Scarlet Nantes	H	"	"	231	
1762	Spartan Deluxe	C	"	"	224	
1759	Spartan Fancy	C	"	"	215	
1879	Spartan Sweet Improved	St	"	"	211	
1760	Spartan Premium	C	"	"	178	
1763	Spartan Classic	C	"	"	173	
1160	Caramba	SG	"	"	168	Coreless Amsterdam type, brittle & sweet
1760	Spartan Delite	C	"	"	141	

<sup>a</sup> See Seed Sources List.

NOTE: Carrots were seeded into the ground May 11 in rows spaced 2 feet apart.

Fertilizer application: 1120 lb/A 10-20-10 applied prior to rototilling. The sulfate form of potassium was used in the mix.

Table 5. Cauliflower Variety Trials, Upland, Fairbanks, 1978

A.E.S. Accession #	Variety (transplants)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Head $\bar{x}$ Wt (g)	Yield lb/100'	Comments
1899	Dominant	St	15" X 3.3'	7-31	863	145	Large plants, good wrapper leaves
1860	Christmas White	S	"	7-31	818	137	
1820	SGI	SG	"	8-03	772	130	
3009	Grandessa	J	"	8-03	588	97	
1900	Extra Early Snowball	St	"	7-18	551	92	
1898	Snow Crown	St	"	7-18	519	87	
2041	Super Snowball	NK	"	7-18	483	81	
1767	Snowball T-2	D	"	7-13	480	80	
1858	White Contessa	S	"		Buttoned		
1859	White Baron	S	"		Buttoned		

<sup>a</sup> See Seed Sources List.

NOTE: Greenhouse-grown transplants 29 days old planted into the field May 18.

Fertilizer application: 1120 lb/A 10-20-10 applied prior to rototilling. The sulfate form of potassium was used in the mix. 1 lb/A B and .8 lb/A Mo also applied prior to rototilling.



Table 6. Cucumber Variety Trials, Upland, Fairbanks, 1978

A.E.S. Accession #	Variety (transplants)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Yield (g/plant)	Yield (lb/100')	Comments
2143	Saladin	AAS	2.5' X 5'	8-03	10640	955	Black spine, pickler
2048	Early Surecrop	NK	"	8-07	10532	943	White spine, slicer, large fruit
2184	Morden Early	Al	"	7-31	7990	715	Black spine, pickler, very small fruit
2144	Liberty	AAS	"	7-31	7627	683	Black spine, pickler
1889	LaReine	St	"	8-03	6810	610	European (long), gynoeocious (usually greenhouse)
1885	Double Yield Pickling	St	"	8-03	6538	585	Black spine, pickler
1821	Levo	SG	"	7-31	6220	557	Spineless (fuzzy), pickler type
1210	Victory	St	"	8-03	5266	471	White spine, slicer
1822	Florino	SG	"	7-31	5266	471	Spineless (fuzzy), pickler type
	Femdan		"	8-10	5084	455	European (long), gynoeocious (usually greenhouse)
2033	Pacer	H	"	8-03	5039	451	White spine, slicer
1888	Toska 70	St	"	8-03	4676	419	European (long), gynoeocious (usually greenhouse)

<sup>a</sup> See Seed Sources List.

NOTE: Greenhouse-grown transplants 36 days old planted into the field June 7. Plants were grown through 1.5-mil. clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.

Table 7. Lettuce Variety Trials, Bottomland, Fairbanks, 1978

A.E.S. Accession #	Variety (seeded)	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Head $\bar{x}$ Wt (g)	Yield lb/100'	Average Core Length <sup>b</sup> Rating	Average Density Rating <sup>c</sup>	Comments
HEAD LETTUCE									
1944	Calmaria	H	1' X 2'	7-28	732	161	1.1	2.5	Unattractive
1339	Premier Great Lakes	D	"	7-28	706	156	1.0	2.3	Many with severe tipburn
1780	Great Lakes 659	A	"	7-28	655	144	1.0	2.5	Some tipburn
2022	Ithaca	H	"	7-28	629	139	1.0	2.8	No tipburn, good quality, flavor
2021	Fairton	H	"	7-28	615	135	1.0	2.9	No tipburn
1882	Minilake	St	"	7-24	560	123	1.0	3.0	Slight tipburn on later harvested plants, good quality and flavor
2023	Minetto	H	"	7-24	389	86	1.0	2.8	Some with severe tipburn
1775	Dessert Gem	D	"	--	--	--			Tipburn too severe for evaluation
1852	Queen Crown	S	"	--	--	--			"
1850	King Crown	S	"	--	--	--			"
3007	Great Lakes "B"	J	"	--	--	--			"
1713	Ballerina	T&M	"	7-28	495	109	1.0	3.4	Good quality, needs fur- ther evaluation
BUTTER LETTUCE									
1791	Citation	A	1' X 2'	7-17	330	73			Does not hold well in field
1802	Market Favorite	OE	"	7-17	287	63			Does not hold well in field



1884	Ostinata	St	8" X 2'	7-17	257	85	No tipburn, stands well in field
3027	Buttercrunch	St	"	--	--	--	Tipburn too severe for harvest
1343	Little Gem	As	"	7-17	183	60	Slight tipburn
2025	Tania	H	"	7-17	226	75	Slight tipburn
LEAF LETTUCE							
1774	Red Salad Bowl	D	8" X 2'	7-17	277	92	Slight tipburn
1888	Domineer	St	"	7-17	303	100	Slight tipburn
2024	Salad Bowl	H	"	7-17	220	73	No tipburn
1406	Black-Seeded Simpson	NK	"	7-17	398	131	Moderate tipburn
1407	Prize Head	NK	"	7-17	260	86	No tipburn - very nice
1405	Oak Leaf	NK	"	7-17	251	83	Slight tipburn
COS LETTUCE							
1772	Dark Green Cos	D	1' X 2'	7-17	445	98	Slight tipburn, still best cos
1285	Sweet Midget Cos	F	8" X 2'	7-28	234	77	Similar to Little Gem

<sup>a</sup> See Seed Sources List.

<sup>b</sup> Core length rating involves an index wherein a core of 1 is the shortest and most desirable and a core index of 5 is the longest, almost bursting through the head.

<sup>c</sup> Density rating involves an index in which 1 is the least dense and 5 the most dense and most desirable.

NOTE: Varieties were seeded into the field May 11.

Fertilizer application: 1120 lb/A 10-20-10 applied prior to rototilling. The sulfate form of potassium was used in the mix. 1 lb/A B and .8 lb/A Mo also applied prior to rototilling.

Table 8. Green Pea Variety Trials, 1978

A.E.S. Accession #	Variety (seeded)	Location	Source <sup>a</sup>	Block Size	First Harvest	Yield/plot x̄ wt (g)	Yield (lb/100')	Comments
1974	Early Frosty	Upland	B	5' x 8'	7-21	4805	26 (in shell)	
1973	Green Arrow	Upland	B	"	7-27	6090	34 " "	Outstanding
2191	Sparkle	Upland	Ho	"	7-21	4685	26 " "	
3013	Oregon Sugarpod	Upland	J	2' x 30'	7-12	11,100	41 " "	Edible-pod type
2191	Sparkle	Bottomland	Ho	3' x 10'	7-31	6860	50 " "	
603	Green Arrow	Bottomland	B	3' x 10'	8-03	8570	63 " "	Outstanding

<sup>a</sup> See Seed Sources list.

NOTE: Peas were seeded in upland plots May 5. Peas were seeded in bottomland plots May 18.

Fertilizer application: 1200 lb/A 10-20-10 for upland plots and 1120 lb/A 10-20-10 for bottomland plots.



Table 9. Potato Variety Trials, Bottomland, 1978

Variety	Soil	Spacing (plant/row)	Harvested	US #1 Yield (T/A)	US #1 Yield (lb/100')	Comments
Rote Erstling	peat	1' x 3.3'	9-04	23.3	348	Red, tough skin
Rote Erstling	silt	"	9-04	3.5	52	
Kennebec	peat	"	9-04	25.7	384	Some blackleg present (seed from S.D.), tender skin
Kennebec	silt	"	9-04	7.8	116	
Swedish	peat	"	9-04	8.6	128	Home-garden type
Swedish	silt	"	9-04	5.9	88	
Alaska 114	peat	"	9-04	22.9	342	Even size, tough skin
Alaska 114	silt	"	9-04	8.2	122	
Bake King	peat	"	9-04	23.6	352	
Bake King	silt	"	9-04	3.4	50	
Emmet	peat	"	9-04	20.6	308	
Emmet	silt	"	9-04	5.1	76	

NOTE: Potatoes were planted May 15.

Fertilizer application: 1120 lb/A 10-20-10 for both soils. The peat soil had approximately 1000 yd<sup>3</sup>/A peat applied to the plots and thoroughly rototilled into the existing soil. The pH of the peat-amended soil was 4.9 while the unamended soil was 6.3. Severe potassium-deficiency symptoms were noted on the plots not amended with peat.

Table 10. Winter Squash Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source <sup>a</sup>	Spacing	Harvest	Yield (kg/plant)	Yield (lb/100')	Comments
1678	Boston Marrow	H	6.5'	9-06	33.5	1128	Large fruits, 15 lb average, good quality
2138	Show King	V	"	9-06	26.1	876	Very large fruits, 46 lb average (one was 79 lbs)
2018	Faribo Hybrid R	F	"	9-06	17.1	576	Orange, excellent quality
2150	Sweet Mama	AAS	5'	9-06	12.6	564	Dark green, high quality
2029	Buttercup	H	"	9-06	12.3	553	Dark green, excellent quality
	Butterbar	?	"	9-06	11.2	504	Orange, no good
1740	Little Gem	V	"	9-06	10.8	483	Orange, high quality
1914	Perfection	St	"	9-06	10.9	488	Dark green
1868	Butterball	S	"	9-06	4.9	219	Grey-green
2016	Emerald	F	3.3'	9-06	3.8	256	Dark green
2017	Baby Butternut	F	5'	9-06	---	---	Female flowers too late
2149	Early Butternut	AAS	"	9-06	---	---	Female flowers too late
1073	Gold Nugget	L	4'	9-06	6.8	366	Small orange fruits, good quality
1988	Butterbush	B	3.3'		---	---	Female flowers too late

<sup>a</sup> See Seed Sources List.

NOTE: Greenhouse-grown transplants 30 days old planted into the field June 5. Plants were grown through 1.5-mil, clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.



Table 11. Summer Squash Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source <sup>a</sup>	Spacing (plant/row)	First Harvest	Yield (g/plant)	Yield (lb/100')	Comments
2078	Black Eagle	NK	3.3' X 6.5'	7-14	18,189	1222	All good zucchinis
1224	Zucchini Select	St	"	7-14	17,871	1201	
1439	President	Ho	"	7-14	16,738	1125	
2077	Black Zucchini	NK	"	7-17	16,556	1112	Early fruit poor, midseason and late ones very nice
3046	Greyzini	St	"	7-14	13,925	936	Striped, nice flavor
2004	Sundance	Ho	"	7-17	11,884	799	Yellow crookneck, resists botrytis late in season, excellent, but poor for shipping (neck too long)
2148	Scallopini	AAS	"	7-17	8,704	542	Yield drops off midseason
1397	Seneca Prolific	NK	"	7-14	7,503	506	Subject to botrytis late in season
1768	Golden Bush Scallop	D	"	8-14	1,769	119	Female flowers very late

<sup>a</sup> See Seed Sources list.

NOTE: Greenhouse-grown transplants 3 weeks old planted into the field May 5. Plants were grown through 1.5-mil, clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.

Table 12. Snapbean Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source <sup>a</sup>	First Harvest	Yield (lb/100')	Comments
1918	Contender	St	8-07	60	Received more moisture
1916	Provider	St	8-07	52	
1920	Honey Gold	St	8-10	48	More disease resistant than Gold Crop, best gold
1434	Gold Crop	Ho	8-10	39	Size decreases rapidly after first picking
1972	BBL 47	A	8-15	39	Possibly poor processor, attractive pods
1917	Spartan Arrow	St	8-07	39	
1968	BBL Advance	A	8-15	37	Attractive pods, nice raw
2015	Salem Blue Lake	F	8-07	34	Delicious raw, cooked
2020	Green Ruler	H	8-07	31	Flat podded
1364	Gina	A	8-07	25	Flat podded
1967	BBL 92	A	8-15	24	
1969	Checkmate	A	8-15	21	
1976	Roma	B	8-10	21	Flat podded
1970	BBL Rio	A	8-15	21	
1966	BBL 94	A	8-15	18	
1975	Royal Burgundy	B	8-15	16	Purple pods, stringy
1977	Rustproof Golden Wax	B	8-15	14	Quality poor
1971	Eagle	A	8-15	9	Probably dry, usually does much better
1915	Bush Romano	St	—		Too late to harvest
1965	Gaelic	A	—		Very dwarf plant, yield poor
2117	Earlipol	F	—		Too late to harvest

<sup>a</sup> See Seed Sources list.

NOTE: Snapbean varieties were seeded May 18, in blocks of 5 rows spaced 1' apart. The center 3 rows were used for yield records.

Fertilizer application: 1120 lb/A 10-20-10.



Table 13. Pepper Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source	Spacing	First Harvest	Yield (g/plant)	Yield (lb/100')	Comments
1806	Pekana	OE	1.6'	9-01	740	99	Many fruits wrinkled, poorly shaped
1986	Burpee Fordhook	B	"	9-01	698	94	Blocky shape, thick walls
1987	New Ace	B	"	9-01	686	92	Elongate fruit
2009	Morgold	F	"	9-01	430	58	Fruits susceptible to disease
2068	Hungarian Wax Hot	NK	"	9-01	320	43	
1562	All Big	G	"	9-01	330	44	Good quality
1219	Earliest Red Sweet	St	"	9-08	308	41	
2066	Anaheim (hot)	NK	"	9-01	268	36	
1805	Pedro	OE	"	8-31	650	87	

NOTE: Greenhouse-grown plants 60 days old planted into the field June 7. Plants were grown through 1.5-mil, clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.

Table 14. Tomato Variety Trials, Upland, 1978

A.E.S. Accession #	Variety (ripe)	Source <sup>a</sup>	Spacing	First Harvest	Yield g/plant	Yield lb/100' row	Comments
1810	Sleaford Abundance	Sh	2.5'	8-03	1347	120	Small fruits, nice quality, early
	Sub-Arctic 25	NL	"	7-13	1318	118	
1904	Rocket	St	"	7-20	993	89	Poor quality
1811	Hardicross	Sh	"	8-03	897	80	Nice quality, medium size*
1808	Doton	OE	"	8-03	695	62	Attractive fruits, nice size, high quality*
1737	Early Temptation	V	"	7-25	543	49	
1184	Sub-Arctic Plenty	L	"	7-25	513	46	Small fruits
1826	Luca	SG	"	8-03	453	41	Attractive fruits, nice size, high quality*
8383	Early Tanana	P	"	7-13	405	36	Not typical, yield and quality usually higher
2151	Floramerica	AAS	"	8-03	101	9	Much green fruit, some very large (670 g)*
2019	Hybrid EE	F	"	9-11	46	4	
1905	Gardener	St	"	---	---	---	*

<sup>a</sup> See Seed Sources List.

NOTE: Greenhouse-grown transplants 60 days old planted into the field June 5. Plants were grown through 1.5-mil, clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.

\* Ripens well indoors (picked green).



Table 15. Sweet Corn Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source	Spacing (plant/row)	First Harvest	Yield lb/100' row	Comments
2194	Onthyb 742	O	1' X 5'	8-28	294 (420 ears)	Bicolor, good flavor
2166	Morden 71112	M	"	8-17	275 (392 ears)	Very sweet, attractive large ears, holds well
1479	Earliking	NK	"	8-23	274 (348 ears)	Good, as usual
1840	Early Golden Giant	Ho	"	8-23	255 (300 ears)	Flavor fair, large ears
2165	Morden 71276	M	"	8-28	251 (328 ears)	Also good, holds well
1923	Earlivee	St	"	8-17	233 (352 ears)	Flavor outstanding, best quality
2193	Onthyb 741	O	"	8-23	232 (324 ears)	Bicolor, juicy
1232	Golden Miniature	St	"	8-17	200 (440 ears)	Small ears, flavor excellent
1758	Northernvee	C	"	8-13	175 (288 ears)	Ears irregular, acceptable for early corn
1921	Polarvee	St	"	8-09	165 (296 ears)	Poor quality
514	Yukon Chief	Ak	"	8-09	120 (372 ears)	Missed harvest date - was ready earlier
1922	Seneca 60	St	"	8-23	58 ( 84 ears)	Cobs bisexual, very poor
2190	Amazing Early Alberta	Al	"	8-02	29 ( 88 ears)	Flintcorn, some saved to mature

NOTE: Sweet corn varieties were seeded May 2 and covered with 1.5-mil, clear polyethylene. The plants were allowed to emerge and were not let out from beneath the plastic until approximately 4" tall.

Fertilizer applicaton: 1324 lb/A 10-20-10.

Table 16. Pumpkin Variety Trials, Upland, 1978

A.E.S. Accession #	Variety	Source	Spacing	Harvest	Yield (kg/plant)	Yield (lb/100')	Comments
1077	Connecticut Field	L	6.5'	9-6	34	1140	
2012	Tricky Jack	F	4'	9-6	---	---	Small type, 3 ripe, 9-6
2147	Spirit	AAS	"	9-6	---	---	Medium size, 6 ripe, 9-6
1680	Jackpot	H	"	9-6	---	---	Medium size, 4 ripe, 9-6

NOTE: Greenhouse-grown transplants 30 days old planted into the field June 5. Plants were grown through 1.5-mil, clear polyethylene.

Fertilizer application: 1120 lb/A 10-20-10.

# Miscellaneous Vegetables Tested

Crop	Source	Comment
<b>Dry Beans</b>		
#1125 Dwarf Horticultural	B	Good yield of dry beans
#3012 Jacob's Cattle	J	Yield 1/2 lb. from 25' row
#1136 Soldier	J	Yield 1/2 lb. from 25' row
#2085 Sanilac (Navy bean)	NK	Did not mature
<b>Spinach</b>		
#3038 Melody	St	Still best spinach
#1789 Grandstand	A	Bolts earlier than Melody
<b>Chard</b>		
#2081 Rhubarb	Nk	Very attractive, smaller than white types
#1906 White King	St	Bolted early
#1984 Lucullus	B	Large size, holds well
#1798 Rex	OE	Very nice, large, dark green
#1799 Dorat	OE	Very nice, large
#1797 Akta	OE	Leaves too pale
<b>Greens</b>		
#2043 Kai Choy	NK	Bolted
#2044 Pak Choy	NK	<u>Very</u> nice, holds well
#3010 Taisai	J	Bolted
#2064 Tendergreen	NK	Good mustard
<b>Rutabagas</b>		
#2074 American Purple Top	NK	Good for storage
#2014 Red Chief	F	Needs further testing
<b>Beets</b>		
#586 Cylindra	B	Long type, resists bolting
#1981 Burpee Golden	B	High quality
#1908 Little Egypt	St	Good round beet
#1815 Uniball	SG	Equal in quality to Little Egypt
#1909 Little Mini	St	Equal in quality to Little Egypt
<b>Brussels Sprouts</b>		
#1558 Jade Cross	G	Still the best
#1794 Early Dwarf	OE	Small plants, low yield
#1857 Green Marvel	S	No good—plant forms laterals



# Miscellaneous Vegetables Tested—Continued

Crop	Source	Comment
<b>Chinese Cabbage</b>		
#1878 Round-Leaved Santo	S	Nonheading type, bolted
#862 Spring A-1	J	Best Chinese cabbage, plant late
<b>Kohlrabi</b>		
#2058 Early Purple Vienna	NK	Standard variety
#2059 Early White Vienna	NK	Standard variety
#2145 Grand Duke	AAS	Very nice—earlier
#1983 Primo	B	Good
#1823 White Prague	SG	Similar to White Vienna
#3005 White Danish	J	Similar to White Vienna
#3006 Blue Danish	J	Similar to Purple Vienna
<b>Radish</b>		
#3031 Burpee White	St	Holds longest without bolting
#2073 French Breakfast	NK	Poor this year—pithy
#3030 Cherry Belle	St	Good, but doesn't hold
<b>Turnip</b>		
#3028 Tokyo Cross	St	Use for small turnips; high quality
#2083 Purple Top White Globe	NK	Better for storage turnips
#1849 Tokyo Top	S	Holds longer than Tokyo Cross
#1848 Market Express	S	Bolted

## 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
AC	Alf Christianson Seed Co., Mt. Vernon, WA 98273
Ak	Agricultural Experiment Station, University of Alaska, Fairbanks, AK 99701
Al	Alberta Nurseries and Seeds, Ltd., Bowden, Alberta TOM 0KO
As	Asmer Seeds, Asmer House, Ash Street, Leicester, England LE5 0DD
B	W. Atlee Burpee Co., Riverside, CA 92502
C	Crookham Co., P.O. Box 520, Caldwell, ID 83605
D	Dessert Seed Co., P.O. Box 181, El Centro, CA 92243
F	Farmer Seed and Nursery Co., Faribault, MN 55021
G	H. G. German Seeds, Inc., Box N, Smethport, PA 16749
H	Harris Seeds, Inc., Moreton Farms, Rochester, NY 14614
Hb	Herbst Bros., Seedsmen, Inc., 1000 N. Main St., Brewster, NY 10509
Ho	R. L. Holmes Seed Co., 2125 - 46 St., N.W., Canton, OH 44709
J	Johnny's Selected Seeds, Albion, ME 04910
L	Lowden's Better Plants and Seeds, Box 10, Ancaster, Ont., L9G 3L3
M	Morden Research Station, P.O. Box 3001, Morden, Manitoba, ROG 1JO
NK	Northrup King & Co., 1500 Jackson St., N.E., Minneapolis, MN 55413
NL	Northern Lights Garden Center, 1600 College Rd., Fairbanks, AK 99701
OE	Ohlsens-Enke, NY Munkegaard, Copenhagen-Toastrup, Denmark
O	Horticultural Experiment Station, Box 587, Simcoe, Ontario, N3Y 4N5
P	Petoseed Co., Inc., P.O. Box 4206, Saticoy, CA 93003
S	Sakata Seed Co., 2 Kiribatake, Kanagawa-KV, Yokohama, Japan
SG	Sluis & Groot of America, 124 A Griffin St., Salinas, CA 93901
Sh	Charles Sharpe, Sleaford, Lincolnshire, England
St	Stokes Seeds, Inc., 5008 Stokes Bldg., Buffalo, NY 14240
T&M	Thompson & Morgan, Inc., P.O. Box 24, 401 Kennedy Blvd., Somerdale, NJ 08083
V	Vesey's Seeds Ltd., York, P.E.I.