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Circular (University of Alaska, Fairbanks. Agricultural Experiment Station)

SUMMARY OF VEGETABLE VARIETY TRIALS
FAIRBANKS, ALASKA
1983

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Circular 48

ALASKA S 33 E22 no.48 January 1984

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SUMMARY OF VEGETABLE VARIETY TRIALS FAIRBANKS, ALASKA, 1983

Introduction

This report summarizes the vegetable-variety evaluations of the Horticulture Department of the University of Alaska, Fairbanks, 1983. 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, the 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 1983 growing season at Fairbanks were above the 37-year average during June and July and below average during August. Consequently, the growth and maturity of most crops were above average during June and July. Yields of some cool-season crops were reduced due to high temperatures during June and July. Below-average temperatures in August delayed the ripening of some crops (e.g., pumpkin and winter squash) which had set heavily in July. The frost-free period extended from May 28 until September 2.

Rainfall was considerably below normal during the period from May through July, and extensive irrigation was used. Rainfall in August was the highest since 1967.

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: 1982, 1983, and the Long-Term Average

| | | the Long-Term A age Temperature | | |
|-----------------|------------|------------------------------------|------------|---------------|
| | daily max. | daily min. | daily mean | Precip. (in.) |
| | | May | | |
| 1983 | 61.6 | 32.1 | 46.8 | 0.09 |
| 1982 | 58.2 | 33.4 | 45.8 | 0.68 |
| 37-year average | 60.3 | 33.6 | 46.9 | 0.75 |
| | | June | | |
| 1983 | 73.7 | 45.9 | 59.8 | 1.24 |
| 1982 | 71.1 | 44.5 | 57.8 | 2.26 |
| 37-year average | 71.6 | 44.0 | 57.8 | 1.52 |
| | | July | | |
| 1983 | 75.2 | 52.8 | 64.0 | 0.87 |
| 1982 | 75.0 | 49.0 | 62.0 | 3.87 |
| 37-year average | 72.7 | 47.0 | 59.9 | 2.16 |
| | | August | | |
| 1983 | 62.5 | 43.0 | 52.8 | 3.81 |
| 1982 | 66.7 | 41.9 | 54.3 | 1.23 |
| 37-year average | 67.2 | 42.9 | 55.1 | 2.41 |
| | | September - | | |
| 1983 | 50.6 | 30.1 | 40.4 | 0.83 |
| 1982 | 57.7 | 36.2 | 46.8 | 0.61 |
| 37-year average | 55.3 | 33.6 | 44.5 | 1.32 |

Table 2. Broccoli Variety Trials, Upland, 1983.

| A.E.S. | | a a | Spac | | First | Yield (1 | | Average | |
|---------------|---------------|---------|-------|-----|---------|-----------|----------|----------|---|
| Accession No. | Variety | Sourcea | plant | row | Harvest | Terminals | Laterals | wt. (gm) | Comments |
| 6806 | Shogun | NK | 16" | 3' | 7-27 | 267.5 | 10.2 | 1617.7 | good late variety, large heads (14" dia.), excellent quality |
| 5910 | Grn. Valiant | Tw | 16" | 3' | 6-29 | 86.9 | 48.0 | 525.7 | good quality, consistent high yields |
| 6805 | Emperor | NK | 16" | 3' | 7-11 | 65.5 | 58.5 | 396.2 | good quality, consistent high yields |
| 6579 | Green Duke | NK | 16" | 3' | 7-4 | 38.9 | 40.8 | 235.4 | good quality, consistent high yields |
| 1765 | Grn. Umbrella | D | 16" | 3' | 7-1 | 37.5 | 60.4 | 227.0 | inconsistent yield yellow eye |
| 6973 | Premium Crop | J | 16" | 3' | 7-8 | 28.3 | 53.8 | 171.3 | yerrow eye |
| 4241 | Green Dwarf | St | 12" | 3' | 7-4 | 23.8 | 55.4 | 107.9 | |
| 7127 | Green Surf | Н | 16" | 3' | 6-29 | 21.4 | 49.4 | 129.7 | |
| 6997 | Early Emerald | Р | 16" | 3' | 6-29 | 21.2 | 42.8 | 128.3 | |
| 6398 | Mercedes | Su | 16" | 3' | 6-29 | 20.1 | 48.1 | 121.3 | |
| 6630 | Top Star | В | 16" | 3' | 6-29 | 13.1 | 45.9 | 79.2 | |
| 6767 | Paragon | St | 16" | 3' | 6-29 | 12.2 | 52.4 | 73.9 | |

Note: Greenhouse-grown plants, 35 days old, were transplanted into the field on May 25, 1983. Fertilizer application was 1433 lb/A 10-20-20 prior to rototilling. Trace elements (Soluble Trace Element Mix) were applied at the rate of 2 oz/100 ft² on June 13, 1983.

Table 3. Brussels Sprouts Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spac plant | ing row | First Harvest | Yield (gm/plant) | Yield (1b/100') | Comments |
|------------------------------|--|-----------------------|----------------------|----------------|--------------------------|-----------------------------------|--------------------------------|---|
| 6580 7017 4424 6633 | Prince Marvel Jade Cross E Early Jade Alcazar | NK Bu A&C RS | 2' 2' 2' 2' | 3' 3' 3' | 8-3 8-3 8-3 8-3 | 1062.5 928.0 859.2 656.7 | 117.1 102.3 94.7 72.4 | excellent quality consistent high yields consistent high yields |

^aSee seed-source list.
Note: Greenhhouse-grown plants, 58 days old, were transplanted into the field on May 25, 1983. Fertilizer application was 1433 lb/A 10-20-20 prior to rototilling. Trace elements (Soluble Trace Element Mix) were applied at a rate of 2 oz/100ft² on June 13, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spaci plant | ng row | First Harvest | Yield (1b/100') | Average wt. (gm) | Av. Core Length Rating | Av. Density Rating | Comments |
|-------------------------|------------------------------|---------------------|----------------|-----------|------------------|--------------------|------------------|------------------------------|--------------------------|--|
| 4511 | Hinova | Se | 16" | 3' | 8-15 | 836.8 | 5061.2 | 2.2 | 3.5 | storage, excellent |
| 6776 | Winterkeeper | St | 16" | 3' | 7-12 | 727.1 | 4397.3 | 2.7 | 4.7 | high yields storage, excellent |
| 6467 | Alaska 6467 | AK | 16" | 3' | 8-10 | 509.7 | 3082.5 | 2.0 | 4.5 | flavor storage, excellent flavor, consistent |
| 6654 7129 | Supermarket Bravo | Tw H | 16" 16" | 3' 3' | 7-27 7-29 | 433.1 384.3 | 2619.6 2324.3 | 2.7 | 3.4 4.5 | high yields variable quality good, strong |
| 6775 4317 | Superslaw Ruby Perfection | St Tw | 16" 16" | 3' 3' | 7-8 8-8 | 380.1 | 2299.1 | 2.8 | 4.7 | cabbage flavor bland flavor |
| 6945 | Baby Red Late | WD | 16" | 3' | 8-17 | 369.0 356.8 | 2231.5 2157.9 | 2.5 2.3 | 4.2 5.0 | red, good sweet |
| 6975 | Superpack | J | 16" | 3' | 7-15 | 310.8 | 1880.0 | 2.9 | 3.5 | flavor flat head, poor |
| 6233 | Baby Red Early | WD | 16" | 3' | 7-27 | 306.1 | 1851.0 | 2.5 | 4.1 | quality red |
| 0//2 | Gourmet | St | 16" | 3' | 7-18 | 287.9 | 1741.2 | 2.5 | 2.7 | good flavor, low density |
| 6309 | 1342 | KA | 16" | 3' | 7-22 | 249.0 | 1506.1 | 1.5 | 4.6 | good quality, flavor |
| 6974 | Lasso | J | 16" | 3' | 7-15 | 236.4 | 1429.7 | 2.3 | 4.2 | good quality, |
| 7128 | Hybrid 15 | Н | 16" | 3' | 7-18 | 222.2 | 1343.7 | 2.7 | 3.2 | mild flavor |
| 4065 | Tastie | NK | 16" | 3' | 7-8 | 214.5 | 1297.3 | 2.2 | 3.5 | |
| 6773 | Salarite | St | 16" | 3' | 7-8 | 168.5 | 1018.9 | 2.4 | 3.5 | |
| 6774 | Emerald Acre | St | 16" | 3' | 7-6 | 142.6 | 862.7 | 2.3 | 3.5 | savoy good texture, flavor |
| 4043 | Earliana | Bu | 12" | 3' | 7-5 | 110.3 | 500.4 | 2.5 | 3.6 | good, small, early variety |
| 6943 | Express Early | WD | 16" | 3' | 7-5 | 92.8 | 561.2 | 2.2 | 2.8 | pointed head, poor quality |
| aSee seed-source | Early Wonder | WD | 16" | 3' | 7-5 | 87.0 | 526.4 | 3.0 | 3.5 | poor quarrey |

aSee seed-source list. Core length is noted from 1 to 5, with 1 the shortest, most desirable, and 5 the longest.

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

Note: Greenhouse-grown plants, 32 days old, were transplanted into the field on May 25, 1983. Fertilizer application was 1433 lb/A 19-20-20 prior to rototilling. Trace elements (Soluble Trace Element Mix) were applied at a rate of 2 oz/100 ft on June 13, 1983.

Table 5. Carrot Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spacing Row | First Harvest | Marketable Yield (1b/100') | Average wt. (gm) | Comments |
|-------------------------|---------------------|---------------------|----------------|------------------|----------------------------------|------------------|------------------|
| 6691 | Royal Danvers | Ag | 3' | 8-24 | 345 | 72.1 | |
| 6399 | Chantenay Red Cored | Su | | 8-24 | 285 | 68.0 | |
| | Favorite | | 3' | 8-24 | 215 | 100.5 | large, short |
| 6036 | Kinko | J St | 3' | 8-24 | 175 | 66.2 | 3 |
| 6771 | Touchon Deluxe | S L | 3' | 8-24 | 170 | 45.4 | excellent flavor |
| 6892 | Royal Cross | RS | 3' | 8-24 | 170 | 53.2 | |
| 6638 | Nevesta | NK | 3' | 8-24 | 165 | 68.0 | |
| 6584 | Scarlet Nantes | 1 | 3' | 8-24 | 160 | 46.5 | |
| 6977 | Kuroda Chantenay | J T., | 3' | 8-24 | 145 | 47.7 | |
| 6835 | Fanci Pak | Tw NK | 3' | 8-24 | 135 | 46.4 | |
| 6586 | Gold King | A1 | 3' | 8-24 | 135 | 53.2 | |
| 6808 | Early Cross | | 3' | 8-24 | 130 | 71.0 | |
| 6585 | Des Dan | NK | 3' | 8-24 | 130 | 32.2 | |
| 6976 | JSS-186 | J | 3 | 0-24 | 130 | | |
| 6770 | Chantenay Supreme | C+ | 3' | 8-24 | 120 | 49.5 | |
| | Long Type | St | 3' | 8-24 | 120 | 41.2 | |
| 6769 | Orange Sherbet | St | 3' | 8-24 | 120 | 40.9 | |
| 6918 | Danvers 126 | Se | 3' | 8-24 | 115 | 37.0 | |
| 6655 | Fancy Nantes | Tw | 3' | 8-24 | 90 | 27.6 | |
| 6807 | Nantes Strong Top | A1 | 3 | 0-24 | - 50 | | |

^aSee seed-source list. Note: Fertilizer application was 1760 lb/A prior to rototilling. seeded by hand and were not thinned, resulting in uneven stands.

Table 6. Cauliflower Variety Trials, Upland, 1983.

| A.E.S. | | a a | Spac | | First | Yield | Average | |
|---------------|----------------|---------|-------|-----|---------|-----------|----------|------------------------------|
| Accession No. | Variety | Sourcea | Plant | Row | Harvest | (1b/100') | wt. (gm) | Comments |
| 6784 | White Top | St | 16" | 3' | 7-22 | 177.1 | 1071.3 | nice large heads, late seaso |
| 6762 | White Rock | S&G | 16" | 3' | 7-15 | 169.6 | 1025.5 | nice large heads |
| 6978 | Andes | J | 16" | 3' | 7-20 | 150.2 | 908.5 | nice large heads, late seaso |
| 6780 | White Fox | St | 16" | 3' | 7-18 | 140.3 | 848.5 | nice large heads |
| 4591 | Nevada | RZ | 16" | 3' | 7-15 | 120.5 | 728.8 | good quality |
| 6780 | Delira | St | 16" | 3' | 7-11 | 110.2 | 666.4 | good quality |
| 6782 | White Summer | St | 16" | 3' | 7-11 | 109.8 | 664.3 | good quarrey |
| 4590 | Starlight | RZ | 16" | 3' | 7-18 | 108.5 | 656.4 | |
| 6778 | Dominant | St | 16" | 3' | 7-11 | 100.0 | 605.0 | |
| 6779 | Taipan | St | 16" | 3' | 7-13 | 91.0 | 550.4 | |
| 5865 | Early Snowball | NK | 16" | 3' | 7-8 | 88.7 | 536.5 | good quality, 2nd earliest |
| 7005 | Tornado | F | 16" | 3' | 7-8 | 80.9 | 489.4 | good quarrey, and earriest |
| 6631 | Snowball X | В | 16" | 3' | 7-18 | 78.6 | 475.6 | |
| 4251 | Snow Crown | St | 16" | 3' | 7-6 | 62.5 | 378.1 | good early variety |

Note: Greenhouse-grown plants, 32 days old, were transplanted into the field on May 25, 1983. Fertilizer application was 1433 lb/A 10-20-20 prior to rototilling. Trace elements (Soluble Trace Element Mix) were applied at a rate of 2 oz/100 ft² on June 13, 1983.

Table 7. Celery Variety Trials, Upland, 1983.

| A.E.S. | | a | Spac | | First | Yield | Yield | C |
|---------------|-------------------------------|---------|-------|-----|---------|------------|-----------|--|
| Accession No. | Variety | Sourcea | Plant | Row | Harvest | (gm/plant) | (1b/100') | Comments |
| 6979 | Green Giant | J | 18" | 2' | 9-2 | 2054.8 | 301.7 | excellent flavor, consistent high yields |
| 3802 | Transgreen | FM | 18" | 2' | 9-2 | 1737.0 | 255.0 | excellent flavor |
| 6787 | Stokes Improved Utah 52-70 | St | 18" | 2' | 9-2 | 1672.9 | 245.6 | good flavor, consistent high yields |
| 6786 | Stokes Golden Plume | St | 18" | 2' | 9-2 | 1660.3 | 243.8 | light color, susceptible to tipburn, poor flavor |
| 6785 | Surepak | St | 18" | 2' | 9-2 | 1607.5 | 236.0 | good flavor |
| 6588 | Utah 52-70 | NK | 18" | 2' | 9-2 | 1575.0 | 231.3 | susceptible to rot, good flavor |
| 4488 | Florimart | McF | 18" | 2' | 9-2 | 1492.0 | 219.1 | susceptible to rot |
| 5559 | Clean Cut | Н | 18" | 2' | 9-2 | 1466.8 | 215.4 | resistant to rot, few suckers |

Note: Greenhouse-grown plants, 59 days old, were transplanted into the field on May 26, 1983. Fertilizer application was 1500 lb/A 10-20-20 prior to rototilling.

Table 8. Cucumber Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Sourcea | Spac plant | ing | First Harvest | Yield (gm/plant) | Yield (1b/100') | Average | Commonto |
|--------------------------------------|--------------------------------------|---------|---------------|------|------------------|------------------|--------------------|----------|---------------------|
| | 3 | | pranc | 1011 | nai.vest | (giii) pranc) | (10/100) | wt. (gm) | Comments |
| 6382 | Early Pride | Bu | 3' | 5' | 7-18 | 12226.7 | 897.6 | 158.8 | slicer, good flavor |
| 6684 | Sweet Success | AAS | 3' | 5' | 7-18 | 9671.7 | 710.0 | 315.4 | slicer, good size |
| | | | | | | | ,10.0 | 010.4 | and flavor |
| 5919 | Slicemaster | Tw | 3' | 5' | 7-25 | 9621.7 | 706.4 | 172.8 | slicer, good flavor |
| 5563 | Raider | Н | 3' | 5' | 7-25 | 8758.3 | 643.0 | 141.3 | slicer, good butter |
| | | | | | | 0,00.0 | 010.0 | 141.5 | flavor |
| 6152 | Morden Early | T&T | 3' | 5' | 7-15 | 8085.0 | 593.5 | 52.2 | pickler |
| 6895 | Tiny Dill | Р | 3' | 5' | 7-18 | 7805.0 | 573.0 | 68.7 | pickler |
| 6658 | Liberty | Tw | 3' | 5' | 7-18 | 7323.3 | 537.6 | 93.5 | pickler |
| 6151 | Amira | T&T | 3' | 5' | 7-18 | 7270.0 | 533.7 | 146.4 | slicer, smooth skir |
| | | | | | | , , , , , , | 000.7 | 140.4 | good, mild flavor |
| 6055 | Park's Commanche | Р | 3' | 5' | 7-22 | 6878.3 | 505.0 | 136.7 | slicer, very good |
| | | | | | | 00,0.0 | 000.0 | 150.7 | flavor |
| 6038 | Northern Pickling | J | 3' | 5' | 7-18 | 6803.3 | 499.5 | 71.1 | pickler |
| 6213 | Lucky Strike | Se | 3' | 5' | 7-18 | 6530.0 | 479.4 | 73.9 | pickler |
| 5676 | Euro American | G | 3' | 5' | 7-20 | 6458.3 | 474.1 | 182.8 | slicer, smooth skir |
| | | | | | | | ., | 102.0 | good, mild flavor |
| 6695 | Picarow | Ag | 3' | 5' | 7-20 | 6225.0 | 457.0 | 74.7 | pickler |
| 5562 | Rega1 | H | 3' | 5' | 7-18 | 6131.7 | 450.1 | 75.7 | pickler |
| 4768 | Saladin | Р | 3' | 5' | 7-25 | 6033.3 | 442.9 | 80.1 | multi-purpose |
| 5920 | Sweet Slice | Tw | 3' | 5' | 7-18 | 5927.5 | 435.2 | 252.2 | slicer, good flavor |
| 5920 5084 6196 6659 5083 | | | | | | | | | crunchy texture |
| 5084 | Hokus Original | J | 3' | 5' | 7-20 | 5688.3 | 417.6 | 81.7 | pickler |
| 6196 | Green Star | Н | 3' | 5' | 7-20 | 5278.3 | 387.5 | 88.5 | pickler |
| 6659 | Universal | Tw | 3' | 5' | 7-20 | 4555.0 | 334.4 | 160.8 | multi-purpose |
| 5083 | Suyo Long | J | 3' | 5' | 7-25 | 4195.0 | 308.0 | 299.6 | novelty, long curve |
| | | | | | | | | | ridged fruit, good |
| | | | | | | | | | flavor |
| 6788 | Japanese Long | | | | | | | | |
| | Pickling e list. ere started in cold | St | 3' | 5' | 7-27 | 2766.7 | 203.1 | 251.5 | novelty |

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they were 29 days old. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1550 1b/A 10-20-20 prior to rototilling.

Table 9. Eggplant Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spac [*] Plant | ing Row | First Harvest | Yield (gm/plant) | Yield (1b/100') | Average wt. (gm) | Comments |
|------------------------------|---|-----------------------|----------------------------|----------------|----------------------------|----------------------------------|------------------------------|--------------------------------|---|
| 3487 | Dusky | A&C | 18" | 3' | 7-25 | 1213.8 | 178.2 | 101.1 | very marginal crop in interior |
| 6094 | Imperial | A&C | 18" | 3' | 7-27 | 582.5 | 85.5 | 86.3 | Dusky and Imperial were the best varieties tested |
| 6696 3486 6789 6948 | Super Hybrid Black Mark Blackjack Moneymaker | Ag A&C St WD | 18" 18" 18" 18" | 3' 3' 3' | 8-1 8-5 7-25 7-25 | 450.0 425.0 366.3 362.5 | 66.1 62.4 53.8 53.2 | 120.0 100.0 86.2 53.7 | CALO CALO SEL OFFI SELVO |

Note: Greenhouse-grown plants, 40 days old, were transplanted into the field on June 7, 1983. Plants were grown through 1.5-mil clear polyethylene. Fertilizer appliation was 1500 lb/A 10-20-20 prior to rototilling.

Table 10. Green Pea Variety Trials, Bottomland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Block size | First Harvest | (in shell/100 ft Yield | Yield ^b (1b/100' row) | % shelled weight to weight in shell | Comments |
|-------------------------|------------------------|---------------------|------------|------------------|---------------------------|--|-------------------------------------|--|
| 6662 | Novella | Tw | 3' x 10' | 7-20 | 107.5 | 322.4 | 37.7 | semileafless, easy to pick, good quality consistent hig |
| 6954 | Lacy Lady | WD | 3' x 10' | 7-26 | 99.7 | 299.1 | 35.8 | yields semileafless, easy to pick, |
| 7092 | Almota | VB | 3' x 10' | 8- 1 | 93.9 | 281.7 | 35.7 | good quality |
| 6915 | Sugar Rae | Р | 3' x 10' | 7-20 | 89.2 | 267.7 | 55.7 | cnan noa |
| 7131 | Lincoln | Н | 3' x 10' | 8- 1 | 88.3 | 264.8 | 36.6 | snap pea |
| 6135 | Early Snap | Ag | 3' x 10' | 7-20 | 86.6 | 259.8 | 30.0 | long pod |
| 6952 | Sweet Snap | WD | 3' x 10' | 7-20 | 84.4 | 253.3 | | snap pea |
| 6663 | Sparkle Sparkle | Tw | 3' x 10' | 7-26 | 83.9 | 251.9 | 39.4 | snap pea |
| 5934 | Green Arrow | Tw | 3' x 10' | 8- 1 | 78.3 | 234.8 | 41.7 | long pod, |
| | | | | | | | | excellent |
| 6059 | Patriot | Р | 3' x 10' | 7-20 | 76.1 | 228.5 | 34.3 | flavor excellent |
| 7091 | Kosta | VB | 3' x 10' | 7-26 | 74.8 | 224.4 | 40.7 | flavor |
| 3273 | Sugar Snap | Bu | 3' x 10' | 7-20 | 67.4 | 202.3 | | snap pea, |
| | | | | | | | | tall, requires |
| 6923 | Freezonian | Se | 3' x 10' | 7 26 | FF 0 | 165.4 | | staking |
| 6664 | Sugar Bon | Tw | 3' x 5' | 7-26 7-20 | 55.0 49.2 | 165.1 147.5 | | good flavor snap pea, |
| 6953 | Norli ^C | WD | .5' x 10' | 7-20 | 166.2 | | | poor quality |
| 6646 | Frostiroy ^C | RS | 1.5' x 10' | 7-20 | 94.0 | | | edible pod good flavor |

aSee seed-source list.
bWeight in shell.
cYields cannot be accurately compared with other plantings due to smaller block size.
NOTE: Peas were seeded in bottomland plots on May 19, 1983. Fertilizer application was 1760 lb/A 10-20-20 prior to rototilling.

Table 11. Crisphead Lettuce Variety Trials, Bottomland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spac Plant | ing Row | First Harvest | Average wt. (gm) | Yield (1b/100') | Av. Core Length Rating | Av. Density Rating | Comments |
|--|---|--------------------------------------|----------------------------|----------------------------|---|---|---|--|---|--|
| 6903 5680 6661 6403 6215 5965 4322 | Mission Ithaca Montello Windermere Oswego Minilake Green Lake | P G Tw Su Se St Tw | 1' 1' 1' 1' 1' | 3' 3' 3' 3' 3' | 8-2 8-2 8-2 8-2 8-2 8-2 8-2 | 1145.7 1057.5 968.3 947.9 813.8 732.0 651.4 | 252.6 233.1 213.5 209.0 179.4 161.4 143.6 | 1.4 1.7 0.7 0.9 0.8 1.5 | 3.9 4.6 4.3 4.0 3.9 4.1 4.2 | some tipburn, splitting good quality good quality good flavor good quality |

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 in bottomland plots on May 19, 1983. Fertilizer application was 1760 lb/A 10-20-20 prior to rototilling.

Table 12. Pepper Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Vaniaty | Sourcea | Spac | | First | Yield | Yield | Average | |
|-------------------------|--------------------------|---------|-------|-----|---------|------------|-----------|----------|--|
| ACCESSION NO. | Variety | Source | Plant | Row | Harvest | (gm/plant) | (1b/100') | wt. (gm) | Comments |
| 6665 | Golden Bell | Tw | 9" | 3' | 7-15 | 939.2 | 275.4 | 67.9 | high quality, |
| 6795 | Stoke's Early Hybrid | St | 9" | 3' | 7-27 | 797.5 | 233.8 | 57.0 | harvested gree green bell, |
| 6667 | Gypsy | Tw | 9" | 3' | 7-13 | 786.7 | 230.7 | 37.8 | good flavor yellow tapered |
| 6910 | Park's Early Thickset | Р | 9" | 3' | 7-27 | 749.2 | 219.7 | 52.3 | mild bell, good flavor, |
| 6136 | Italian Sweet | Ag | 9" | 3' | 7-18 | 720.8 | 211.4 | 32.5 | attractive long, frying |
| 7006 | Ma Belle | F | 9" | 3' | 7-29 | 699.2 | 205.0 | 56.7 | pepper bell |
| 6042 | Karlo | J | 9" | 3' | 7-20 | 645.8 | 189.4 | 33.7 | hot, reliable hot variety |
| 6666 | Early Prolific | Tw | 9" | 3' | 7-25 | 630.8 | 185.0 | 55.7 | bell |
| 7007 | Permagreen | F | 9" | 3' | 7-27 | 570.0 | 167.1 | 49.6 | dark green be off flavor, thin walls |
| 7008 | Wisconsin Lakes | F | 9" | 3' | 8-1 | 503.3 | 147.6 | 55.9 | bell |
| 6220 | Zippy | Bu | 9" | 3' | 7-25 | 454.2 | 133.2 | 10.8 | mild, novelty |
| 6198 | Hot Portugal | Н | 9" | 3' | 7-25 | 440.0 | 129.0 | 27.8 | very hot when |
| 6137 | Surefire | Ag | 9" | 3' | 7-11 | 400.8 | 117.5 | 26.7 | harvest yellow or red, very hot when yello |
| 6796 | Long Thick Red | St | 9" | 3' | 7-15 | 266.7 | 78.2 | 19.3 | long |
| 5882 | Hungarian Yellow Hot Wax | NK | 9" | 3' | 7-15 | 248.2 | 72.8 | 17.9 | hot, reliable hot variety |
| 6911 | Thai Hot | P | 9" | 3' | 9-2 | 1.7 | .5 | .6 | not variety |

^aSee seed-source list.

Note: Greenhouse-grown plants, 71 days old, were transplanted into the field on June 7, 1983. 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, 1983.

| A.E.S. | | | Spac | ing | First | Yield U.S. #1 | Average | |
|---------------|----------------|----------|-------|------|---------|------------------|----------|-------------------------------------|
| Accession No. | Variety | Sourcea | Plant | Row | Harvest | (1b/100') | wt. (oz) | Comments |
| | Alaska 114 | AK | 1' | 3.3' | 8-30 | 256 | 6.4 | good quality |
| | 83-13 | CD | 1' | 3.3' | 8-30 | 250 | 6.4 | |
| | Norgold Russet | P&S | 1' | 3.3' | 8-30 | 246 | 5.5 | attractive russet |
| | Green Mountain | AK | 1' | 3.3' | 8-30 | 238 | 7.4 | |
| | Bakeking | AK | 1' | 3.3' | 8-30 | 218 | 7.2 | high quality, good baker |
| CC1 | Superior | ₽p | 1' | 3.3' | 8-30 | 198 | 8.8 | early maturing |
| 661 662 | Norland | Fb Fb | 1' | 3.3' | 8-30 | 182 | 6.6 | white-fleshed red |
| 002 | Swedish | AK | 1' | 3.3' | 8-30 | 174 | 3.1 | |
| | Alaska Red | CD | Ĩ' | 3.3' | 8-30 | 162 | 4.6 | good quality, white-fleshed red |
| | Rote Erstling | AK | 1' | 3.3' | 8-30 | 154 | 6.3 | excellent, early yellow-fleshed red |

See seed-source list.
Seed potato eyes were purchased, rather than using pieces from seed potatoes grown the previous season.

CU.S. #1 size standards not applied.

Note: Potatoes were planted on May 20, 1983 in bottomland soils that were amended in 1975 with 1000 yd³/A peat obtained from the College peat bogs. The pH of the amended soil was ca 5.5. Fertilizer application was 1760 lb/A 10-20-20 prior to rototilling.

Table 14. Pumpkin Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Sourcea | Spaci Plant | ng Row | First Harvest | Yield (kg/plant) | Yield (1b/100') | Average wt. (kg) | Comments |
|-------------------------|-------------------|---------|----------------|-----------|------------------|---------------------|--------------------|------------------|------------------------|
| 1.3 25 | | | | | | | | 10 707 | |
| 6924 | Connecticut Field | Se | 8' | 8' | 9-1 | 82.782 | 2281.3 | 13.797 | consistent high yields |
| 7009 | Halloween Hybrid | F | 8' | 8' | 9-1 | 59.535 | 1640.6 | 5.670 | |
| | | A1 | 8' | 8' | 9-1 | 46.267 | 1275.0 | 2.373 | small fruit for home |
| 6811 | Small Sugar | AT | O | O | 3-1 | 40.207 | 12,0.0 | | use, sweet |
| 6993 | Young's Beauty | J | 8' | 8' | 9-1 | 36.514 | 1006.2 | 5.216 | |
| 4978 | Little Boo | Aq | 8' | 8' | 9-1 | 31.752 | 875.0 | 4.536 | white skin |

^aSee seed-source list.

Note: Greenhouse-grown plants, 36 days old, were transplanted into the field on June 8, 1983. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1550 lb/A 10-20-20 prior to rototilling.

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Table 15. Snapbean Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Sourcea | Spacing Row | First Harvest | Yield (1b/100') | Comments |
|-------------------------|-------------------------|---------|----------------|------------------|--------------------|--|
| 5943 | Strike | St | 3' | 8-2 | 122.0 | |
| 5931 | Contender | Tw | 3' | 8-2 | 122.9 | good flavor |
| 6652 | Bountiful | Tw | 3' | 8-2 | 105.7 | consistent, good flavor |
| 7090 | Golden Wax Impr | VB | 3' | 8-2 | 100.4 | flat, excellent flavor |
| 5667 | Dwarf Contender | НЬ | 3' | 8-2 | 93.9 | wax bean, attractive color |
| 3461 | Rogers 1604 | RB | 3' | | 93.8 | similar to Contender |
| 5666 | Provider | НЬ | 3' | 8-2 | 70.7 | excellent flavor |
| 6090 | Roma II | A&C | 3' | 8-2 | 66.4 | consistent, good flavor |
| 6617 | Greencrop Spartan Arrow | NK | 3' | 8-2 | 64.3 | flat, good quality |
| 5347 | Flits Dutch Stringless | WD | 3 | 8-2 | 60.5 | good flavor |
| 6942 | Greencrop | | 3' | 8-2 | 53.0 | |
| 6766 | Honey Gold | WD | 3' | 8-2 | 51.1 | |
| 6916 | Tendercrop | St | 3' | 8-2 | 47.2 | wax bean |
| 6031 | Pourse De Deseurs | Se | 3' | 8-2 | 47.0 | |
| 6765 | Beurre De Rocquencourt | J | 3' | 8-2 | 39.2 | wax bean, excellent color and flavor |
| | Frenchie | St | 3' | 8-2 | 38.2 | short and slender, good for frenchin |
| 7089 | Dwf Kentucky Wonder | VB | 3' | 8-2 | 31.9 | The state of the s |
| 5346 | Widuco | WD | 3' | | | no germination |
| 5344 | Amateur | WD | 3' | | | no germination |
| 6856 | Green Needle | НЬ | 3' | | | no germination |

Note: Beans were seeded into upland plots on May 26, 1983. Fertilizer application was 1430 1b/A 10-20-20 prior to rototilling.

Table 16. Summer Squash Variety Trials, Upland, 1983.

| A.E.S. | | a a | Spac | | First | Yield (kg/plant) | Yield (1b/100') | Average wt. (gm) | Comments |
|---------------|-----------------------------|---------|-------|----------|---------|---------------------|--------------------|------------------|---------------------------------|
| Accession No. | Variety | Sourcea | Plant | Row | Harvest | (kg/prant) | (10/100 / | we. (gm) | |
| 6004 | Duaganaan | J | 3' | 5' | 7-8 | 17.458 | 1281.6 | 478.3 | zucchini |
| 6994 | Buccaneer | VB | 3' | 5' | 7-8 | 16.092 | 1181.4 | 447.0 | zucchini |
| 7095 | Green Magic | | 3' | 5' | 7-13 | 16.035 | 1177.2 | 509.0 | zucchini |
| 6926 | Senator | Se | 3' | 5' | 7-13 | 15.755 | 1156.6 | 404.0 | zucchini, consistent |
| 6797 | Greyzini | St | 3 | 5 | 7-0 | 13.733 | 1100.0 | | high yields, good quality |
| 7024 | Dicharoon | Bu | 3' | 5' | 7-8 | 15.098 | 1108.3 | 368.2 | zucchini |
| 7024 | Richgreen Zucchini Elite | Н | 3' | 5' | 7-8 | 14.515 | 1065.6 | 408.9 | zucchini, good |
| 6205 | Zucchini Elite | 11 | 3 | J | , , | | | | quality |
| 6604 | Gold Rush | NK | 3' | 5' | 7-8 | 13.036 | 957.0 | 401.1 | gold zucchini, good quality |
| 6670 | Flini | Tw | 3' | 5' | 7-8 | 12.970 | 952.2 | 447.2 | zucchini |
| 6670 | Elini | Tw | 3' | 5' | 7-13 | 12.698 | 932.2 | 273.1 | yellow |
| 6669 | Sundance | P | 3' | 5' | 7-11 | 12.585 | 923.9 | 426.6 | lt. green, can be |
| 6904 | Kuta | r | 3 | 3 | 7-11 | 12.500 | | | used as summer or winter squash |
| 6605 | Carrage Duralific | NK | 3' | 5' | 7-11 | 11.550 | 847.9 | 300.0 | crookneck |
| 6605 | Seneca Prolific | NK | 3' | 5' | 7-13 | 10.978 | 805.9 | 327.7 | crookneck |
| 6603 | Early Prolific | | 3' | 5' | 7-11 | 8.838 | 648.8 | 519.9 | zucchini |
| 6602 | Black Zucchini | NK | 3' | 5' | 7-11 | 8.400 | 616.7 | 466.7 | zucchini |
| 6906 | Aristocrat | P | | | 7-13 | 7.155 | 525.3 | 447.2 | novelty |
| 7011 | Royal Knight | F | 3' | 5' 5' | | 5.450 | 400.1 | 294.6 | gold zucchini |
| 7071 | Rocky Gold | V | 3' | 2. | 7-11 | 5.450 | 400.1 | 234.0 | 9014 240011111 |

Note: Greenhouse-grown plants, 29 days old, were transplanted into the field on June 8, 1983. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1550 lb/A 10-20-20 prior to rototilling.

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Table 17. Winter Squash Variety Trials, Upland, 1983.

| A.E.S. Accession No. | Variety | Source ^a | Spac Plant | ing Row | First Harvest | Yield (kg/plant) | Yield (1b/100') | Average wt. (gm) | Comments |
|------------------------------|---|---------------------|----------------|----------------|-------------------|----------------------------|-------------------------|----------------------------|---|
| 6609 5894 | Improved Hubbard Pink Banana | NK NK | 8' 8' | 8' 8' | 9-1 9-1 | 42.639 40.371 | 1175.0 1112.5 | 10659.6 7340.1 | green, large fruits pink-orange, consistent high yields, good |
| 6611 | Sweet Meat | NK | 8' | 8' | 9-1 | 36.628 | 1009.4 | 4309.2 | 5 |
| 2018 | Faribo Hybrid R | F | 8' | 8' | 9-1 | 29.179 | 804.1 | 3890.5 | , |
| 5180 7072 5180 6798 | Golden Hubbard Little Gem Green Hubbard | St V Al | 8' 8' | 8' 8' | 9-1 9-1 9-1 | 28.577 23.927 19.391 | 787.5 659.4 534.4 | 4082.4 1840.6 5540.4 | quality, early orange, good quality bright orange |
| 6674 6047 | Green Delicious Sweet Mama Baby Blue | St AAS J | 8' 8' 8' | 8' 8' 8' | 9-1 9-1 9-1 | 18.484 16.783 9.866 | 509.4 462.5 271.9 | 2843.7 2582.0 1644.3 | dark green, high quality excellent flavor |

Note: Greenhouse-grown plants, 36 days old, were transplanted into the field on June 8, 1983. Plants were grown through 1.5-mil clear polyethylene. Fertilizer application was 1550 lb/A 10-20-20 prior to rototilling.

Table 18. Sweet Corn Variety Trials, Upland, 1983.

| A.E.S. | | Sourcea | Spaci | | First Harvest | Days to Harvest | Yield (gm/plant) | Yield (1b/100') | Average wt. (gm) | Comments |
|---------------|------------------------------|---------|-------|-----|------------------|--------------------|------------------|--------------------|------------------|---|
| Accession No. | Variety | Source | plant | row | narvest | Har vest | (giii/praire) | (12/200) | ,,,,, | |
| 5424 | Onthyb 804 | Si | 1' | 5' | 8-12 | 93 | 1485.8 | 327.5 | 326.5 | high quality, consistent hig yields |
| 5427 | Onthyb 741 | Si | 1' | 5' | 8-12 | 93 | 1407.0 | 310.2 | 327.2 | high quality, consistent hig yields |
| 5432 | Onthyb 811 | Si | 1' | 5' | 8-12 | 93 | 1191.5 | 262.7 | 317.7 | high quality, consistent hig yields |
| 7133 | Spring White | Н | 1' | 5' | 8-12 | 93 | 1187.5 | 261.8 | 289.6 | white, high quality |
| 5954 | Earlivee | St | 1' | 5' | 8-9 | 90 | 1114.4 | 245.7 | 297.2 | early, high quality |
| 5425 | Onthyb 805 | Si | 1' | 5' | 8-12 | 93 | 1082.5 | 238.6 | 318.4 | high quality |
| 5423 | Onthyb 803 | Si | 1' | 5' | 8-15 | 96 | 998.5 | 220.1 | 332.8 | |
| 5955 | Polar Vee | St | 1' | 5' | 8-1 | 82 | 900.8 | 198.6 | 266.9 | uniform, very early |
| F0F0 | Butter Vee | St | 1' | 5' | 8-12 | 93 | 882.9 | 194.6 | 346.2 | excellent fla |
| 5952 5332 | Sugar & Gold | Se | 1' | 5' | 8-12 | 93 | 867.5 | 191.2 | 231.3 | bicolor, high quality |
| 2400 | 75-1637 | RB | 1' | 5' | 8-17 | 98 | 861.9 | 190 | 370.7 | |
| 3409 | Yukon Chief | AK | 1' | 5' | 8-1 | 82 | 741.1 | 163.4 | 147.5 | variable ears very early |
| T406 | Onthyb 806 | Si | 1' | 51 | 8-17 | 98 | 694.0 | 153.0 | 322.8 | |
| 5426 | Earliking | NK | 1' | 5' | 8-15 | 96 | 659.6 | 145.4 | 334.0 | |
| 5897 | | Si | 1' | 5' | 8-17 | 98 | 609.8 | 134.4 | 329.6 | |
| 5429 6919 | Onthyb 809 Northern Vee | Se | 1' | 5' | 8-9 | 90 | 541.3 | 119.3 | 267.3 | early, irregular ear |
| 2400 | Dancon | RB | 1' | 5' | 8-15 | 96 | 403.5 | 89 | 366.8 | |
| 3408 | Beacon Onthyb 812 | Si | 1' | 5' | 8-23 | 104 | 363.8 | 80.2 | 363.8 | |
| 5433 | First of All | Su | 1' | 5' | 8-17 | 98 | 274.4 | 60.5 | 343.0 | |
| 6407 | Morden 71276 | RB | 1' | 5' | 8-19 | 100 | 227.8 | 50.2 | 364.4 | |
| 3410 | | RB | 1' | 5' | | 104 | 173.0 | 38.1 | 266.2 | |
| 3411 | Golden Earlipak | SS | 1' | 5' | | 98 | 159.8 | 35.2 | 290.5 | |
| 6310 | Borealis | Si | 1' | 5' | | 112 | 16.5 | 3.6 | 330.0 | |
| 7162 6920 | Onthyb 808 Spring Crystal | Se | 1' | 5' | | | | | | no mature ear |

Note: Sweet corn was seeded on May 11, 1983 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, 1983.

| A.E.S. | | 3 | Spac | | First | Yield | Yield | Average | |
|---------------|-------------------|------------------|-------|-----|---------|------------|-----------|----------|---------------|
| Accession No. | Variety | Sourcea | Plant | Row | Harvest | (gm/plant) | (1b/100') | wt. (gm) | Comments |
| 7107 | #63 | NDS | 2.3 | 5 | 8-1 | 2333.3 | 220.7 | 36.6 | good flavor, |
| | | | | | | | | | some cracking |
| | | | | | | | | | and splitting |
| 7120 | #38 | NDS _b | 2.3 | 5 | 8-1 | 1613.3 | 152.6 | 70.1 | off flavor |
| 7099 | Gem State | | 2.3 | 5 | 7-18 | 1560.0 | 147.5 | 28.5 | good flavor |
| 7113 | #73 | NDS | 2.3 | 5 | 8-1 | 1351.7 | 127.8 | 42.7 | very good fla |
| 7124 | #39 | NDS | 2.3 | 5 | 8-5 | 1323.3 | 125.2 | 63.0 | good flavor |
| 7112 | #4 | NDS _b | 2.3 | 5 | 8-1 | 1298.3 | 122.8 | 36.7 | off flavor |
| 7104 | Shoshone | | 2.3 | 5 | 8-3 | 1231.7 | 116.5 | 33.6 | good flavor |
| 7121 | #68 | NDS | 2.3 | 5 | 8-3 | 1048.3 | 99.1 | 54.2 | very good fla |
| 6995 | Sub-Arctic Plenty | J | 2.3 | 5 | 8-3 | 1043.3 | 98.7 | 33.3 | fair-good fla |
| 7106 | D23 | NDS | 2.3 | 5 | 8-5 | 973.3 | 92.1 | 50.3 | fair flavor |
| 7123 | #18 | NDS | 2.3 | 5 | 8-3 | 928.3 | 87.8 | 38.2 | good flavor, |
| | | | | | | | | | slightly soft |
| 7101 | Santa | NDS^{b} | 2.3 | 5 | 8-1 | 835.0 | 79.0 | 35.3 | very good fla |
| 7115 | D47 | NDS | 2.3 | 5 | 8-1 | 776.7 | 73.5 | 56.8 | good flavor, |
| | | | | | | | | | attractive sh |
| 7073 | Early Temptation | V | 2.3 | 5 | 8-5 | 678.3 | 64.2 | 61.7 | excellent fla |
| 7111 | #37 | | 2.3 | 5 | 8-1 | 640.0 | 60.5 | 33.1 | fair flavor |
| 7105 | Bonner | NDS _b | 2.3 | 5 | 8-5 | 613.3 | 58.0 | 44.9 | good flavor |
| 7119 | #4965 | NDS | 2.3 | 5 | 8-3 | 608.3 | 57.5 | 45.6 | sweet, mild |
| | | | | | | | | | flavor |
| 7097 | Latah | NDSb | 2.3 | 5 | 8-17 | 601.7 | 56.9 | 41.0 | good, tart fl |
| 7122 | #268 | NDS | 2.3 | 5 | 8-3 | 525.0 | 49.7 | 71.6 | good, tart in |
| 6409 | Sigmabush | Su | 2.3 | 5 | 8-17 | 460.0 | 43.5 | 35.4 | off flavor |
| 6996 | Sub-Arctic Early | 1 | 2.3 | 5 | 8-5 | 421.7 | 39.9 | 19.8 | 011 114401 |
| 7103 | Sandpoint | NDSb | 2.3 | 5 | 8-22 | 318.3 | 30.1 | 43.4 | |
| 7109 | #823 | NDS | 2.3 | 5 | 8-19 | 311.7 | 29.5 | 14.4 | |
| 7117 | D590 | NDS | 2.3 | 5 | 7-20 | 270.0 | 25.5 | 19.8 | |
| 7114 | D537 | NDS | 2.3 | 5 | 8-10 | 253.3 | 24.0 | 47.5 | gold colored, |
| | 200. | | 2.0 | | 0 10 | 200.0 | 24.0 | 47.5 | mild flavor |
| 7116 | D586 | NDS | 2.3 | 5 | 8-5 | 231.7 | 21.9 | 40.9 | milia ilavor |
| 7108 | #45 | NDS | 2.3 | 5 | 8-10 | 186.7 | 17.7 | 70.0 | |
| 6800 | Sub-Arctic Maxi | St | 2.3 | 5 | 8-10 | 166.7 | 15.8 | 62.5 | |
| 7110 | #43 | NDS | 2.3 | 5 | 8-3 | 133.3 | 12.6 | 50.0 | |
| 6799 | Stokes Early | St | 2.3 | 5 | 9-2 | 73.3 | 6.9 | 110.0 | |
| 6408 | Shirley | Su | 2.3 | 5 | 8-26 | 23.3 | 2.2 | 70.0 | |
| 7118 | #4957 | NDS | 2.3 | 5 | 9-2 | 15.0 | 1.4 | 45.0 | |
| 6687 | Celebrity | AAS | 2.3 | 5 | 3-2 | 15.0 | 1.4 | 45.0 | no nino tomot |
| 0007 | Gelebiley | NA2 | 2.5 | 3 | | | | | no ripe tomat |

^aSee seed-source list. ^bAlso available through Mountain Seed.
Note: Greenhouse-grown plants, 49 days old, were transplanted into the field on June 6, 1983. Plants were grown through 1.5mil clear polyethylene. Fertilizer application was 1815 lb/A 10-20-20 prior to rototilling.

Table 20. Container Tomato Variety Trials, 1983.

| A.E.S. Accession No. | Variety | Source ^a | First Harvest | Yield (gm/plant) | Average wt. (gm) | Comments |
|-------------------------|----------------|---------------------|------------------|---------------------|---------------------|----------------------------------|
| 6222 | Basket King | Bu | 7-8 | 870 | 30.5 | very good flavor |
| 6907 | Bitsy | Р | 7-13 | 826.3 | 35.9 | fair flavor, somewhat tough skin |
| 6308 | Burpee's Pixie | Bu | 7-13 | 782 | 46.5 | excellent flavor |
| 6803 | Florida Petite | St | 7-15 | 751 | 15.8 | poor flavor, tough, tart |
| 6698 | Toy Boy | Ag | 7-22 | 625 | 29.8 | excellent flavor |
| 6908 | Minibel | P | 7-20 | 416.3 | 14.0 | poor flavor, tough skin |

Note: Greenhouse-grown plants were seeded April 7, 1983, transplanted into $8\frac{1}{2}$ " No. 2 nursery containers and grown in the greenhouse until ca June 1, 1983 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

| Cro | р | | Source | Comment |
|-------------------------------------|--|--|---|--|
| Art | ichoke | s (Globe) | | |
| | 5590 5067 | Grande Beurre Green Globe | T&M Bu | av. terminal size 184 g., excellent quality av. terminal size 202 g., excellent quality |
| Bee | ts | | | |
| No. No. No. No. | 7125 6891 3345 7003 7067 6088 7126 | Avenger Burpee's Golden Cylindra Garnet Little Ball Sangria Warrior | H P Bu F V A&C H | didn't germinatepossible herbicide problem excellent flavor excellent, long shape tendency to bolt very good, use small for pickling excellent tendency to bolt |
| Chi | nese V | egetables - Cabbage | | |
| No. No. No. No. | 6400 6583 6615 | Sampan Michili Wong Bok Two Seasons Nagaoka Jade Pagoda Spring A-1 | Su NK NK Bu RS P J | bolted most heads bolted most heads bolted produces usable heads from early & late seeding bolted tendency to bolt bolted |
| Chi | nese V | egetables - Daikon (Ra | dish) | |
| | | Tokinashi | J | slow to bolt |
| No. | 5251 | egetables - Greens Pak Choy Mustard Lei Choi Green Lance Kale | NK Bu WD | off flavor bolted satisfactory |
| Dil' | 1 | | | |
| No. | | Dukat Long Island Mammoth Tuve | Ag NK Ag | good good good |
| Hert | os | | | |
| No. No. No. No. No. No. No. No. No. | 4049 6899 6383 6900 6898 6901 6619 6982 6620 6983 3821 | Anise Basil, Cinnamon Basil, Green Bouquet Basil, Holy Basil, Lemon Basil, Licorice Borage Catnip Chervil Chinese Leek (Chives) Chives | Bu P Bu P P NK J NK J | marginal satisfactory, good fragrance withstands cooler weather satisfactory satisfactory not hardy, good fragrance satisfactory very good very good very good very good very good very good |

Table 21, continued

| Crop | | Source | Comment |
|--|---|--|---|
| Herbs, co | ntinued | | |
| No. 4382 No. 7130 No. 4383 No. 7065 No. 6984 No. 6004 No. 6987 No. 6622 No. 6988 No. 6986 No. 6623 No. 6624 No. 6625 | Coriander Fennel, Mammoth Horehound Mint, Curled Pennyroyal Peppermint Rosemary Sage, Broad Leaf Sorrel Spearmint Summer Savory Sweet Marjoram Thyme, English | J H J G J NK J NK NK NK | very good thin stalks very good |
| No. 5664 | Thyme, French | НЬ | very good |
| Kohlrabi No. 6902 No. 6673 No. 4422 | Azurstar Grand Duke Grand Master | P AAS A&C | purple, good quality earliest, very good flavor good quality |
| Leeks | | | |
| No. 6235 No. 4388 | Giant Elefant King Richard | J | av. wt. 166 g., yielded 195 lb/100' av. wt. 199 g., yielded 234 lb/100', uniform, long necked |
| Lettuce, | Bibb | | |
| No. 6790 No. 7068 No. 6950 No. 6989 No. 6642 No. 5961 No. 6643 No. 6197 | Capitan Dolly Hilde Kagran Summer Orfeo Ostinata Rigoletto Summer Bibb | St V WD J RS St RS | satisfactory, slight tipburn satisfactory satisfactory, slight tipburn satisfactory, slight tipburn satisfactory, very mild early, holds well satisfactory, slight tipburn dark color, good flavor |
| Lettuce, | Leaf | | |
| No. 7021 No. 6592 No. 6593 No. 6810 No. 6594 No. 6595 | Burpee's Green Ice Grand Rapids Oak Leaf Prizehead Ruby Salad Bowl | Bu NK NK A1 NK NK | tip burned satisfactory attractive attractive, red-tipped, buttery flavor reliably good reliably good |

Table 21, continued

| Crop | Sc | urce | Comment |
|--|--|---------------------------------------|---|
| Lettuce, | Romaine | | |
| | Lobjoit's Green Cos Parris Island Cos Winter Density | J NK J | satisfactory, large heads satisfactory, large heads smaller buttery leaves, excellent flavor, long standing |
| Onions, D | ry | | |
| No. 5473 No. 4703 No. 6645 No. 6992 No. 4702 | Justo Lucrato | C Su RS J | formed few bulbs small size formed few bulbs formed few bulbs |
| No. 5474 No. 6793 No. 4464 | Cepria Ringmaker Tamarack Taurus | RS C St A | formed few bulbs yielded 130 lb/100', good quality formed few bulbs small size |
| Onions, G | Green | | |
| | Hardy White Bunching He-Shi-Ko (Evergreen | St | satisfactory, forms bulbs |
| No. 6991 No. 6957 No. 6792 No. 6791 | Bunching) Ishikura Long Quicksilver Southport White Globe Stokes Early Mild Bunching | D J St | very good high quality, good flavor pearl onion, satisfactory satisfactory, forms bulbs very good |
| Parsley | | | |
| No. 4300 No. 5966 No. 3480 No. 5088 No. 5103 No. 6897 No. 6621 | Curlina Darki Decorator Delikat Original Impr. Market Gardeners Paramount Plain Leaf | St St A&C J Tw P NK | very good, attractive best flavor |
| Parsnips | | | |
| No. 6812 No. 6596 No. 6813 | | A1 NK A1 | av. wt. 105 g., yielded 81 lb/100', v. long, slender av. wt. 129 g., yielded 160 lb/100', long av. wt. 168 g., yielded 118 lb/100', stumpy |
| Radishes | | | |
| No. 3343 No. 7010 No. 5252 No. 7132 | Cavalier Cherry Belle | Bu F NK H | satisfactory, best white early, satisfactory early, good quality good quality |

Table 21, continued

| Cro | р | S | Source | Comment | 1.01.0 |
|--|--|---|--|---|--------|
| Rad | ishes, | continued | | | |
| No. No. | 6109 5278 5927 7023 | Faribo White Snowball Giant White Globe Inca Summer Cross | F NK Tw Bu | mild, did not hold poor quality satisfactory bolted | |
| Spi | nach | | | | |
| No. No. No. No. No. No. | 7094 6649 6647 6601 6406 5176 6648 7070 6100 6956 | Benton #2 Caballero Estivato Hybrid #7 Jovita Melody Norveto Popeye's Choice Vienna Vital-R | VB RS RS NK Su St RS V A&C WD | bolted, no usable spinach low yield, did not hold did not hold bolted early satisfactory, did not hold highest yield, good quality satisfactory, did not hold satisfactory, did not hold bolted early low yield, did not hold | |
| Swi | ss Char | rd | | | |
| No. No. | 6693 6613 | Fordhook Giant Rex Wide Ribbed Rhubarb Swiss Chard of Geneva | Tw Ag Nk P | tendency to bolt did not bolt, good quality, freezes well tendency to bolt, attractive color slow to bolt | |

SEED SOURCES

Asgrow Seed Co., Subsidiary of the Upjohn Co., Kalamazoo, MI 49001 All-America Selections, 4546 El Camino Real, Suite A, Los Alto, CA 94022 AAS Abbot and Cobb, Inc., P.O. Box 307, Feasterville, PA 19124 A&C Agway, Inc., Seed Division, Box 4933, Syracuse, NY 13221 Ag Alaska Agriculture Experiment Station, Fairbanks, AK 99701 AK Alberta Nurseries & Seeds, Ltd., Box 20, Bowden, Alberta TOM OKO, Canada A1 В Geo. Ball Pacific, Inc., Box 9055, Sunnyvale, CA 94088 W. Atlee Burpee Co., 6350 Rutland Ave., Box 748, Riverside, CA 92502 Bu 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 F Farmer Seed & Nursery Co., Faribault, MN 55021 Ferry-Morse Seed Co., P.O. Box 100, Mountain View, CA 94042 FM H.G. German Seeds, Inc., Box N, Smethport, PA 16749 G Joseph Harris Co., Inc., Moreton Farm, Rochester, NY 14624 H Herbst Brothers Seedsmen, Inc., 1000 N. Main St., Brewster, NY 10509 Hb Johnny's Selected Seeds, Albion, ME 04910 J Arvo Kallio, 340 E. Lismore Road, Duluth, MN 55804 Ka Mountain Seed & Nursery, Box 271, Rt. 1, Moscow, ID 83843 M McFayden Seed Co., Ltd., P.O. Box 1600, Brandon, Manitoba R7A 6A6, Canada McF NDS A.A. Boe, Chairman, Dept. of Horticulture & Forestry, North Dakota State U., Fargo, ND 58105 NK Northrup King & Co., 1500 Jackson St., N.E., Minneapolis, MN 55413 Geoge W. Park Seed Co., Box 31, Greenwood, SC 29647 P&S Pay 'N Save Stores, Fairbanks, AK Rogers Brothers Co., P.O. Box 1674, Idaho Falls, ID 83401 RB Royal Sluis, Inc., 1293 Harking Rd., Salinas, CA 93907 RS Rijk Zwaan Zaadteelt en Zaadhandel B.V. Burgem. Crezeelaan 40 DeLier (Holland) RZ Postbus 40, 2678 ZG DeLier, The Netherlands Seedway, Inc., Hall, NY 14463 Se Sluis & Groot of America, 124A Griffin St., Salinas, CA 93907 S&G Horticultural Experiment Station, Box 587, Simcoe, Ontario N3Y 4N5, Canada Si Sun Seeds, 9531 W. 78th St., Suite 229, Eden Prairie, MN 55344 SS St Stokes Seeds, Inc., 5008 Stokes Bldg., Buffalo, NY 14240 Sutton Seeds, Hele Road, Torquay, Devon TQ2 7QJ, England Su Thompson & Morgan, Inc., Box 100, Farmingdale, NJ 07727 T&M T&T Seeds, Ltd., Box 1710, Winnipeg, Manitoba R3C 3P6, Canada T&T Otis S. Twilley Seed Co., Inc., P.O. Box 65, Trevose, PA 19047 Tw

Vesey's Seeds, Ltd., York, Prince Edward Is. COA 1PO, Canada

William Dam Seeds, P.O. West Flamboro, Ontario LOR 2KO, Canada

Vermont Bean Seed Co., Garden Lane, Bomoseen, VT 05732

V

VB

WD