

H.R.I.O.

HORTICULTURAL RESEARCH INSTITUTE
OF ONTARIO

Horticultural
Experiment
Station
Simcoe, Ontario

VEGETABLE CULTIVAR
TRIALS
1988

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Ministry of
Agriculture
and Food
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HORTICULTURAL EXPERIMENT STATION, SIMCOE, ONTARIO

VEGETABLE CULTIVAR TRIAL REPORT 1988

Table of Contents

Weather Data.....	2-8
Seed Sources.....	9
Management Procedures and Notes.....	10-13
Asparagus Cultivar Trials, B.R. Schumacher and R. Baker	
Established 1979.....	14
Established 1980.....	15
Established 1985 - Main Trial.....	16
- Observation Trial.....	17
Crucifer Crop Cultivar Trials, B.R. Schumacher and R. Baker	
Broccoli, early maturing - Main Trial.....	18
- Observation Trial.....	19-21
Cabbage, white early maturing - Main Trial.....	22
- Observation Trial.....	23
white late maturing - Main Trial.....	24
- Observation Trial.....	25-27
Red Cabbage, late maturing - Main Trial.....	28
- Observation Trial.....	29-30
Savoy Cabbage, late maturing - Main Trial.....	31
- Observation Trial.....	32
Cauliflower, midseason - Main Trial.....	33
- Observation Trial.....	34-36
Oriental Vegetables, late maturing - Observation Trial.....	37
Garlic Cultivar Trials, B.R. Schumacher and R. Baker	
Main Trial, Clay Loam Soil.....	38
Observation Trial, Clay Loam Soil.....	39
Main Trial, Sandy Loam Soil.....	40
Jumbo Onion Cultivar Trials, B.R. Schumacher and R. Baker	
Main Trial.....	41
Observation Trial.....	42
Jumbo Onion-Set Trial.....	43

Cucurbit Cultivar Trials, J. O'Sullivan and W.J. Bouw

Cucumbers, Advanced Multipick Trial.....	44
Observation Multipick Trial.....	45
Machine Harvest Trial.....	46
Muskmelon, Observation Trial.....	50-51
Summer Squash, (Zucchini) Cultivar Trial.....	52

Solenaceous Crops, J. O'Sullivan and W.J. Bouw

Peppers, Advanced Cultivar Trial.....	47
Observation Cultivar Trial I.....	48
Observation Cultivar Trial II.....	49

Potatoes, A.W. McKeown and L.A. Reynolds.

Early Harvest, Potato Cultivar Trial.....	53
Main Crop Potato Cultivar Trial.....	54
Potato Cultivar Evaluations.....	55

Sweet Potatoes, A.W. McKeown and L.A. Reynolds.

Main Crop Sweet Potato Cultivar Trial.....	56
Observation Sweet Potato Cultivar Trial.....	57

Tomatoes, R.A. Brammall and G.E. Banfield

Advanced Coordinated Fresh Market Tomato Trial.....	58-60
Fresh Market Storage Test #1.....	61
Fresh Market Storage Test #2.....	62
Co-ordinated Primary Fresh Market Trial.....	63
Primary Fresh Market Cooperative Trial - Slicing Test.....	64
Advanced Fresh Market Tomato Co-operative Trial.....	65-69
Primary Co-operative Trial (Fresh Market).....	70
Advanced Co-operative Fresh Market Storage Test.....	71

MONTHLY METEOROLOGICAL SUMMARY

October 1987

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	18.5	6.5	12.4	0.25
2	14.1	4.4	9.9	
3	15.5	3.8	11.8	0.76
4	7.5	-0.6	3.9	
5	13.5	-1.0	6.9	
6	18.8	8.3	13.6	0.25
7	17.0	8.8	12.8	1.77
8	9.6	6.3	7.9	8.13
9	8.6	0.4	5.3	
10	13.2	0.3	8.8	0.51
11	9.7	2.9	6.8	5.33
12	8.3	2.4	4.9	2.79
13	10.1	1.5	5.8	
14	12.4	-0.4	5.3	
15	14.9	3.8	9.5	0.25
16	18.5	6.3	12.3	
17	20.0	6.1	12.4	
18	16.2	8.7	11.7	5.84
19	13.0	7.2	9.8	
20	16.6	7.7	11.6	
21	11.7	5.0	8.3	1.01
22	6.0	0.7	3.5	4.57
23	9.5	-0.1	4.5	9.40
24	10.8	2.3	6.9	
25	13.3	2.2	6.6	12.45
26	9.0	-0.9	3.9	
27	10.3	-3.1	3.7	0.25
28	11.8	0.8	7.7	14.22
29	10.1	0.6	4.1	1.78
30	7.5	0.4	3.7	
31	13.1	0.2	7.8	
Avg.	12.55	2.95	7.87	Total 69.56

MONTHLY METEOROLOGICAL SUMMARY

November 1987

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1				11.5
2				9.8
3				15.3
4				20.3
5				18.6
6				12.8
7				3.8
8				11.5
9				14.9
10				10.2
11				0.2
12				2.7
13				8.0
14				10.9
15				11.7
16				13.6
17				15.3
18				15.8
19				11.4
20				7.0
21				2.7
22				-5.2
23				3.0
24				10.8
25				10.2
26				5.1
27				2.1
28				1.4
29				8.4
30				9.4
Avg.				8.70
				1.00
				4.98

MONTLY METEOROLOGICAL SUMMARY

December 1987

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	5.7	2.7	4.4	Not available
2	5.7	-1.3	1.5	
3	0.7	-2.8	-1.5	
4	1.6	-1.6	0.3	
5	1.0	-4.9	-1.6	
6	0.1	-2.6	-1.5	
7	2.8	-4.9	-1.0	
8	0.4	-9.5	-3.5	
9	8.1	0.8	4.0	
10	12.4	5.8	9.0	
11	6.0	0.7	4.2	
12	5.8	0.8	3.7	
13	5.4	0.6	3.2	
14	2.5	-0.3	1.3	
15	2.9	-0.8	0.6	
16	6.5	-0.3	1.5	
17	8.4	-2.2	1.1	
18	-2.1	-6.1	-3.3	
19	-1.0	-8.1	-3.8	
20	3.5	-1.0	1.0	
21	9.1	1.1	4.8	
22	3.7	-0.9	1.5	
23	3.2	0.6	1.6	
24	3.7	-0.2	1.8	
25	8.2	-0.1	3.6	
26	10.1	-0.9	5.2	
27	1.0	-4.7	-1.3	
28	0.8	-4.3	-1.9	
29	-0.5	-6.6	-2.9	
30	-5.9	-15.0	-9.4	
31	-3.2	-17.5	-9.9	
Average	3.41	-2.55	0.41	

MONTLY METEOROLOGICAL SUMMARY

January 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1		3.7	-3.6	1.0
2		-1.4	-10.4	-6.1
3		-3.6	-11.0	-7.5
4		-0.8	-6.5	-3.4
5		-1.2	-14.6	-6.4
6		-13.2	-17.5	-15.3
7		-8.6	-16.5	-13.7
8		-5.7	-15.7	-11.1
9		-2.2	-10.8	-7.8
10		-6.4	-13.3	-9.2
11		-7.1	-15.8	-11.2
12		-1.1	-10.1	-4.6
13		6.4	-2.2	2.3
14		4.4	-16.4	-6.6
15		-9.7	-20.5	-15.0
16		-2.4	-12.3	-6.0
17		5.7	-2.9	1.8
18		7.5	3.6	4.8
19		6.9	0.7	4.0
20		0.7	-2.6	-0.8
21		11.4	0.7	6.1
22		2.1	-7.6	-2.5
23		-3.1	-11.1	-6.4
24		-0.6	-3.3	-2.1
25		7.2	-3.2	0.6
26		-0.8	-5.6	-3.6
27		-3.6	-13.8	-8.4
28		-7.8	-14.8	-10.9
29		-6.2	-15.1	-10.2
30		5.7	-13.9	-4.7
31		10.9	5.0	7.9
Average		-0.16	-9.1	-4.6

MONTHLY METEOROLOGICAL SUMMARY

February 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	11.8	7.8	9.8	Not available
2	10.6	-0.8	3.2	
3	-0.3	-9.8	-4.1	
4	-2.8	-10.7	-6.5	
5	-4.6	-16.6	-8.6	
6	-5.3	-18.5	-13.5	
7	-13.7	-17.7	-15.5	
8	-4.9	-17.8	-11.2	
9	-4.4	-14.8	-10.2	
10	-1.8	-15.8	-7.1	
11	-3.7	-13.4	-9.5	
12	-0.3	-12.5	-7.3	
13	1.0	-11.4	-5.1	
14	-7.0	-11.2	-9.2	
15	4.6	-14.5	-6.4	
16	5.1	-4.9	1.3	
17	-1.9	-6.1	-4.2	
18	2.3	-2.1	0.4	
19	4.2	-4.8	-1.1	
20	3.7	-4.6	0.6	
21	3.7	-12.7	-1.4	
22	-7.4	-14.7	-11.1	
23	11.2	-7.9	2.1	
24	3.3	-7.0	0.9	
25	-3.5	-8.4	-6.1	
26	-4.9	-11.4	-7.8	
27	-1.6	-8.2	-4.9	
28	-1.3	-7.2	-3.3	
29	-0.1	-10.5	-4.2	
Average	-0.25	-9.93	-4.83	

MONTHLY METEOROLOGICAL SUMMARY

March 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	1.7	-6.7	-1.9	
2	-4.9	-13.1	-8.2	
3	7.6	-8.8	0.4	
4	-1.7	-5.6	-3.6	
5	0.4	-8.5	-4.9	
6	3.3	-7.7	-2.5	
7	4.9	-4.8	0.2	
8	6.4	-2.1	2.2	
9	10.0	-2.4	3.2	
10	10.7	0.2	5.7	
11	4.7	-2.6	0.4	
12	7.9	-3.2	1.3	
13	7.5	-3.6	-0.3	5.33
14	7.1	-3.8	0.6	0.25
15	-2.8	-8.1	-5.0	0.25
16	-1.9	-8.9	-5.3	
17	1.5	-3.2	-1.3	
18	2.4	-5.3	-2.1	
19	2.5	-3.3	-0.4	1.02
20	-0.1	-6.8	-2.7	
21	-3.6	-10.8	-7.7	
22	-5.5	-11.3	-8.8	
23	0.1	-11.8	-5.8	
24	19.7	-3.1	9.2	0.51
25	10.7	3.5	4.9	4.32
26	15.7	3.5	9.3	18.80
27	14.3	1.4	8.2	3.05
28	1.4	-1.2	-0.5	
29	3.9	-1.6	0.5	0.25
30	24.5	2.3	10.7	
31	14.5	0.5	7.1	0.25
Average	5.25	-4.42	0.16	Total 34.03

MONTHLY METEOROLOGICAL SUMMARY

April 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	12.7	3.2	8.0	
2	9.0	5.0	7.0	
3	18.0	8.2	13.1	11.4
4	14.4	7.0	10.7	
5	18.5	7.4	13.0	
6	15.6	8.3	12.0	1.3
7	14.0	4.2	9.1	2.8
8	8.9	1.5	5.2	
9	13.8	-0.9	6.5	
10	14.4	0.1	7.3	
11	11.3	1.5	6.4	
12	17.5	3.3	10.4	
13	15.4	4.7	10.1	
14	13.8	1.2	7.5	0.8
15	4.7	-1.8	1.5	
16	5.5	-1.8	1.9	
17	16.4	2.2	9.3	0.3
18	10.9	-1.1	4.9	1.3
19	2.6	-3.7	-0.6	0.3
20	10.9	-1.5	4.7	3.3
21	7.4	0.5	4.0	
22	11.7	-0.6	5.6	
23	18.0	2.3	10.2	5.8
24	7.9	2.0	5.0	
25	13.8	0.4	7.1	
26	13.3	2.9	8.1	1.5
27	10.6	3.2	6.9	1.8
28	8.6	4.8	6.7	2.0
29	11.6	6.6	9.1	8.6
30	14.4	6.8	10.6	
Average	12.2	2.5	6.9	Total 41.2

MONTHLY METEOROLOGICAL SUMMARY

May 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	17.4	5.1	11.3	
2	15.0	6.8	10.9	
3	13.6	5.0	9.3	
4	19.0	3.9	11.5	
5	17.0	12.6	14.8	
6	24.3	10.3	17.3	
7	20.6	7.2	13.9	
8	25.2	5.1	15.2	
9	20.4	15.2	17.8	3.3
10	19.1	11.8	15.5	
11	17.5	6.6	12.1	
12	19.8	7.3	13.6	
13	19.4	6.2	12.8	2.0
14	15.1	3.6	9.4	
15	26.1	4.7	15.4	11.7
16	24.8	15.3	20.1	5.1
17	19.6	14.0	16.7	
18	19.4	12.9	32.3	4.8
19	25.2	14.9	20.1	3.8
20	25.7	16.4	21.1	
21	23.2	15.9	19.6	0.8
22	23.7	17.3	20.5	
23	26.9	15.9	21.4	
24	20.5	6.2	13.4	
25	14.5	3.6	9.1	
26	19.7	3.7	11.7	
27	25.2	13.8	19.5	
28	28.7	12.4	20.6	
29	29.0	11.6	20.3	
30	32.6	16.9	24.8	
31	32.3	16.4	24.4	
Average	22.0	10.3	16.2	Total 31.5

MONTHLY METEOROLOGICAL SUMMARY

June 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	28.9	9.8	19.4	
2	17.3	6.9	12.1	3.8
3	19.0	9.3	14.2	
4	22.6	8.4	15.5	0.3
5	28.5	10.8	19.7	
6	28.8	14.5	21.6	
7	24.1	12.9	18.5	
8	14.8	6.5	10.7	
9	17.2	5.7	11.5	1.3
10	20.5	5.8	13.2	
11	25.1	7.6	16.4	
12	30.3	14.0	22.2	
13	31.2	15.0	23.1	
14	33.5	19.2	26.4	
15	32.0	21.0	26.5	
16	26.0	12.9	19.9	
17	23.8	9.6	16.6	
18	26.9	12.8	19.3	
19	29.7	14.1	23.1	
20	31.2	21.1	25.9	
21	29.9	14.6	22.8	
22	31.6	19.2	26.8	
23	27.1	12.1	19.9	7.11
24	24.3	8.5	17.1	
25	34.6	15.7	23.9	
26	22.4	13.3	17.4	0.76
27	25.8	10.4	18.5	
28	25.0	9.3	17.3	
29	20.2	6.4	14.1	0.25
30	19.3	10.9	14.5	
Average	25.7	11.9	19.0	Total 13.52

MONTHLY METEOROLOGICAL SUMMARY

July 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	23.2	9.8	16.5	
2	26.3	10.7	18.7	
3	27.4	11.9	20.3	
4	30.2	13.7	22.8	
5	31.9	15.1	23.8	
6	34.6	16.2	26.3	
7	37.3	19.1	28.7	
8	37.7	22.0	29.5	
9	36.3	21.7	28.6	
10	35.0	21.6	27.2	
11	30.5	22.5	26.2	
12	29.8	20.3	25.7	
13	28.2	17.0	23.0	
14	35.8	19.2	26.7	12.70
15	26.0	17.5	22.0	
16	34.6	22.6	27.6	10.67
17	38.3	20.3	26.9	78.00
18	30.9	20.7	25.8	1.52
19	32.4	19.8	28.2	0.51
20	27.8	18.1	22.3	
21	30.0	22.9	26.6	4.57
22	31.7	20.8	24.3	16.76
23	28.4	21.1	24.6	3.05
24	26.9	20.7	22.9	
25	27.7	22.1	25.0	11.94
26	27.0	20.3	24.3	
27	27.9	20.0	23.8	
28	30.4	20.5	25.6	
29	33.5	22.2	27.8	
30	30.7	23.3	26.3	0.76
31	28.8	17.0	23.0	0.25
Average	31.0	19.0	24.9	Total 140.73

MONTHLY METEOROLOGICAL SUMMARY

October 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	26.1	19.9	22.7	1.78
2	23.3	13.1	17.3	13.97
3	15.4	9.1	12.1	0.25
4	13.2	5.3	9.6	0.25
5	12.0	3.9	7.3	
6	12.4	3.6	6.7	
7	11.8	4.5	7.0	
8	12.9	2.3	7.4	0.51
9	11.9	4.7	7.9	0.76
10	16.6	4.2	10.5	26.67
11	9.6	2.6	5.7	1.52
12	6.9	0.3	3.4	
13	6.4	0.1	2.7	
14	14.2	0.7	8.8	
15	18.0	11.9	14.5	
16	20.1	10.7	15.4	0.76
17	20.3	14.9	16.2	5.84
18	22.5	5.0	12.2	14.48
19	10.6	3.2	7.2	2.29
20	10.1	1.0	4.9	
21	11.5	2.8	8.2	10.67
22	12.0	4.2	7.5	0.76
23	15.4	5.1	9.5	3.56
24	9.6	4.5	6.8	28.19
25	5.7	1.9	4.2	
26	6.2	0.9	3.1	
27	9.5	0.1	5.1	
28	17.5	2.4	6.2	5.59
29	4.9	-0.7	1.5	
30	4.2	-3.4	0.1	
31	6.7	-3.9	0.9	
Average	13.1	4.3	8.2	Total 117.85

MONTHLY METEOROLOGICAL SUMMARY

November 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	9.5	2.5	5.7	0.25
2	5.9	3.0	4.4	
3	9.1	-0.5	4.6	
4	20.2	8.6	15.4	2.54
5	25.1	8.9	14.6	6.86
6	8.9	3.1	5.6	4.57
7	9.4	2.2	5.3	11.94
8	12.3	5.0	7.6	7.87
9	8.8	4.1	6.0	1.27
10	19.3	4.1	8.9	6.35
11	4.1	1.6	2.6	
12	8.4	-0.5	3.7	
13	15.3	5.1	8.2	22.35
14	13.1	3.8	8.3	
15	11.3	1.8	5.6	
16	16.5	4.2	10.7	2.79
17	4.9	2.1	3.3	
18	7.0	-1.6	1.9	2.54
19	14.5	-0.1	4.9	
20	17.0	4.9	13.1	Not available station winterized
21	7.2	0.7	3.7	
22	4.5	-2.0	0.9	
23	4.3	-1.4	1.1	
24	5.5	-1.5	1.4	
25	10.4	1.0	7.1	
26	13.5	7.4	10.9	
27	14.6	4.5	10.4	
28	4.5	0.3	1.9	
29	3.7	-0.8	1.7	
30	5.9	1.1	3.6	
Average	10.5	2.4	6.1	Total 69.34

MONTILY METEOROLOGICAL SUMMARY

August 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	29.8	N.A.	N.A.	4.06
2	34.0	N.A.	N.A.	
3	33.0	22.9	27.9	
4	31.8	24.7	28.1	
5	30.9	24.3	28.1	1.27
6	29.4	20.7	26.3	7.62
7	27.2	18.3	21.7	
8	29.5	17.1	24.3	
9	30.7	23.5	26.8	
10	30.6	19.4	26.0	1.78
11	31.5	19.0	24.8	10.16
12	31.4	25.4	28.3	
13	33.4	25.0	29.0	5.08
14	31.1	26.0	28.2	
15	27.4	18.4	24.4	17.27
16	28.2	16.5	22.8	
17	32.5	22.7	26.8	
18	23.9	14.3	19.4	
19	24.6	11.8	18.2	
20	26.4	12.5	19.0	
21	24.3	11.9	17.9	
22	22.4	9.3	16.0	
23	24.2	13.3	19.2	7.62
24	25.0	16.2	21.2	8.89
25	24.6	13.9	19.9	0.25
26	22.8	13.7	17.8	
27	24.4	14.1	20.0	
28	22.8	18.2	20.9	19.30
29	22.6	14.4	19.0	
30	21.6	11.9	16.4	
31	23.0	11.7	17.7	
Average	27.6	18.1	23.0	Total 83.31

MONTHLY METEOROLOGICAL SUMMARY

September 1988

Date	Temperature °C			Precipitation (mm)
	Maximum	Minimum	Average	
1	25.8	16.1	20.7	
2	26.4	16.0	21.2	1.02
3	25.2	19.0	22.8	44.70
4	26.8	17.9	22.2	1.52
5	19.1	7.2	12.3	.25
6	17.3	7.2	11.9	
7	19.4	8.2	14.0	
8	21.8	11.1	16.6	
9	24.3	15.4	19.9	
10	24.4	11.1	17.6	
11	20.1	10.9	14.0	0.25
12	25.4	11.8	19.2	.25
13	25.0	9.5	17.6	
14	22.2	9.3	15.0	
15	18.9	8.2	12.6	
16	20.3	7.8	14.3	
17	25.5	17.1	22.1	10.67
18	27.5	22.1	24.7	
19	30.3	21.3	24.7	0.51
20	22.6	14.8	17.8	
21	15.7	12.4	14.1	
22	20.4	12.7	15.6	5.33
23	24.4	10.9	18.3	12.70
24	19.8	9.5	13.8	
25	21.5	8.9	14.7	
26	20.3	10.9	14.2	
27	22.7	12.3	18.5	0.51
28	14.6	7.4	10.8	0.25
29	16.3	5.7	10.5	
30	24.5	9.4	18.4	
Average	22.3	12.1	17.0	Total 77.98

SEED SOURCE

We wish to express our sincere thanks to the many companies who provided us with seed for trials. In some cases, the firm in the table of results may not be the primary seed producer, but a retailing agent.

Abbott & Cobb, Box 307, Feasterville, PA, 19047, USA
Agway Inc., Seed Division, Box 1333, Syracuse, NY, 13201, USA
American Takii Inc., 301 Natividad Rd., Salinas, CA, 93906, USA
Asgrow Seed Co., Kalamazoo, Mich., 49001, USA
Bejo Seeds, Box 9, 1722ZG, Noordscharwoude, The Netherlands
Bower's, J. Arthur, Wigford House, Brayford Pool, Lincoln, LN5 7BL
BHN Research, 810 Oaks Blvd. S., Naples, Fla., 33999, USA
Broersen, Kees, Seeds, Bogtmanweg 7, 1747HV, Tuitjenhoorn, The Netherlands
Bruinsma Seeds, B.V., Postbus 24, 2670 AA, Naaldwijk, The Netherlands
Burpee, W. Atlee Burpee Company, 300 Park Ave., Warminster, PA 18974, USA
Canners Seed Corporation, 219 E. Main, P.O. Box 18, Lewisville, Idaho, 83431, USA
Crookham Co., Box 520, Caldwell, Idaho, 83605, USA
DeRuiter Seeds Inc., Box 2245, St. Catharines, Ontario, L2M 6P6
Dominion Seed House, Georgetown, Ontario, L7G 4A2
Elsoms Seeds Ltd., Spalding, Lincolnshire, England, PE11 1OG
Ferry Morse Seed Co., Box 100, Mountain View, CA, 94042, USA
Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY, 14624, USA
Isihara Seed Co. Ltd., c/o Stoller Chemical Co. of Canada Ltd., 3228 S. Service Rd.,
Burlington, Ontario, L7N 3H8
Johnny's Selected Seeds, Albion, Me., 04910, USA
Mikado Seed Growers Co. Ltd., 1203 Hoshikuki, Chiba City, 280, Japan
Musser Seed Co., Box 1406, Twin Falls, Idaho, 83301, USA
Nickerson Zwaan, b.v., Box 19, 2990 AA Barendrecht, The Netherlands
Northrup King & Co., Box 959, Minneapolis, Minn., 55440, USA
Ohlsens-Enke, J.E., Ny Munkgaard DK 2630 Taastrup, Denmark
Park Seed Co., Inc., Greenwood, S.C., 29646, USA
Perron & Co. Lte., W.H., C.P. Box 408, Laval, Quebec, H7S 2A6
Peto Seed Inc., Box 4206, Saticoy, CA, 93004, USA
Reed's Seeds, Donald P. Reed, 3334 NYS Route 215, Cortland, NY, 13045-9440, USA
Royal Sluis, 1293 Harkins Rd., Salinas, CA, 93901, USA
T. Sakata & Co., C.P.O. Box Yokohama #1, Yokohama, Japan 220-91
Seedway Inc., Hall, NY, 14463, USA
Sluis & Groot of America Inc., 124 Griffin St., Salinas, CA, 93901-3786, USA
Stokes Seeds Ltd., Box 10, St. Catharines, Ontario, L2R 6R6
Sun Seeds, 9531 West 78th St., Eden Prairie, MN, 55344, USA

CULTIVAR TRIAL MANAGEMENT NOTES

Asparagus

Established 1979	15 cvs x 4 replications
Established 1980	17 cvs x 4 replications
Established 1985	20 cvs x 4 replications
	8 cvs x less than 4 replications

Fern is cut in early spring and a management program of minimum tillage is adhered to as closely as possible.

Yield data were taken from:

- I. Asparagus Cultivar Trial; Established 1979, first cut 6 May, final cut 15 June.
- II. Asparagus Cultivar Trial; Established 1980, first cut 6 May, final cut 15 June.
- III. Asparagus Cultivar Trial; Established 1985, first cut 6 May, final cut 20 May (1st season of harvest).

Growing conditions were less than ideal in the harvest season; hot dry conditions mid-May onwards created lower yields and quality. The harvest season was terminated earlier than the traditional 20th of June date.

Broccoli

Early maturing - 10 cultivars x 4 replications plus 33 cultivars x 1 replication were seeded in 128 cell Blackmore trays in a greenhouse on 21 March and transplanted 2 May. Harvesting started on 21 June, last harvest occurred on 25 July. Cultivars maturing in the first two weeks of the harvest period were of superior quality compared to those cultivars that matured in the last two weeks of the harvest season.

Plant Characteristics and Observations

Date Peak Cut:	-day largest quantity of heads were cut in a cultivar
% Cut at Peak Cut	-% calculated based on plot stands
% Marketable	-% saleable as fresh heads, total plants/plot
Total Yield	-Projected yield of marketable heads, based on plot area
Mean Weight/Head	-Average weight of all marketable heads
Branch Length	-5 very long
Head Position	-5 very high
Bead Size	-5 very uniform
Brown Bead	-5 none
Color External	-5 very dark
Uniformity	-5 very even
Shape of Head	-5 very uniform
Soft Rot	-deterioration of beads and/or soft rot
Open Florets	-5 none
Yellow Eye	-5 none
Bracted	-5 none
Loose	-5 very tight
Hollow Stem %	-described as a percentage
Stem Diameter	-mm

Cabbage

Early maturing, white - 10 cultivars x 4 replications plus 14 cultivars x 1 replication were seeded into 128 cell Blackmore trays in a greenhouse on 22 March and transplanted 2 May. The first harvest occurred 17 June, final harvest occurred on 25 July.

Late maturing, white - 10 cultivars x 4 replications plus 40 cultivars x 1 replication were seeded into 128 cell Blackmore trays in the greenhouse on 24 May and transplanted 28 June. The first harvest was on 1 September and the final harvest occurred on 10 November.

Late maturing, red - 10 cultivars x 4 replications plus 19 cultivars x 1 replication were seeded into 128 cell Blackmore trays on 19 May and transplanted on 23 June.

Late maturing, Savoy - 10 cultivars x 4 replications plus 12 cultivars x 1 replication were seeded into 128 cell Blackmore trays on 20 May and transplanted on 23 June.

Harvest Date 1 - When most heads of a cultivar were judged mature, 10 consecutive heads in each plot of that cultivar were harvested.

Harvest Date 2 - Those cultivars maturing prior to Sept. 1 were harvested 7 days after harvest 1. Those cultivars maturing after Sept. 1 were harvested 4 weeks after the 1st harvest. This permits assessment of field holding ability of each cultivar at maturity.

Cultivars harvested after Oct. 24 were harvested with less than 4 weeks between harvest. The last harvest occurred on 10 November.

Harvesting criteria for all cabbages are similar except the color ratings are omitted for Red Cabbage.

Plant Characteristics and Observations

Uniformity of Stock	-5 very iniform	-1 very uneven
Length of Stalk	-5 very long	-1 very short
Shape of Head	-5 flat, -4 sl. flat, -3 globe, -2 sl. pointed, -1 pointed	
Habit	-5 sprawling	-1 compact
Color External	-5 very dark	-1 very pale
Savoying of Leaf	-5 very crinkled	-1 smooth
Head protection	-5 very good protection	-1 very poor
Color Internal	-5 white	-1 green
Core Size	-5 small	-1 large
Internal Breakdown	-5 none	-1 severe

Cauliflower

Midseason maturing, 10 cultivars x 4 replications plus 33 cultivars x 1 replication were seeded into 128 cell Blackmore trays in a greenhouse on 10 May and transplanted on 9 June.

This trial was timed (supposedly) to harvest in the most difficult time of the growing season for achieving good quality curds. Yield data and lack of marketable quality manifest itself in the results this year as the weather was totally unsuitable for producing any cauliflower of appreciable quality in August.

Plant Characteristics and Observations

All cauliflower are assessed for fresh market potential rather than processing. Plants are NOT tied, in order to evaluate natural curd protection.

Defects	-curds are loose, ricey, bracted
Colors	-white, cream, yellow, pink, discoloured
Curd Protection	-5 totally covered by wrapper leaves (untied) -4 75% covered -3 leaves upright with 50% protection -2 curd open to sunlight with no leaves giving protection from sun -1 curd sticking up and leaves prostrate
Yield	-marketable yield in crates per hectare is obtained by projecting the yield per plot from individual grade sizes. In the main trial the mean of four plots is used for the final result
Percent Marketable	-based on total number harvested per plot

Code for Reasons Unmarketable -1 button, -2 ricey, -3 bracted, -4 loose, -5 yellow, -6 discoloured

Garlic

Twenty cultivars and/or strains x 4 replications plus 15 cultivars x 1 replication were planted 13 October 1987 on a clay loam soil. A second trial of 10 cultivars and/or strains x 3 replications were planted 21-22 October on a sandy soil. All plots overwintered well with the exception of a few observation plots on the clay soil plot that displayed some water logging symptoms early in the spring. The plots were harvested when the majority of leaves began to die back. All plants of the hard neck type had the scapes removed shortly after emergence of the scape. Soft neck strains do not produce scapes.

Jumbo Onions (Spanish types)

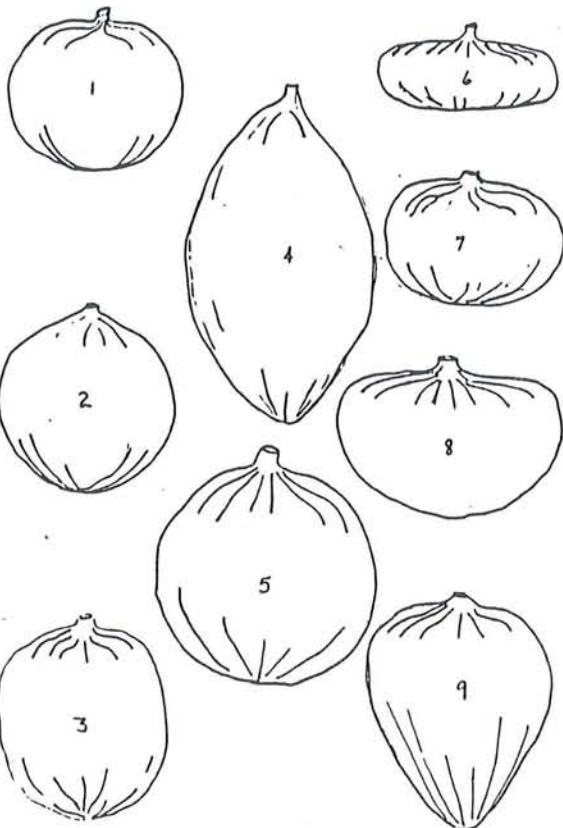
Thirteen cultivars x 4 replications plus 4 cultivars x 1 replication were seeded in flats on 12 Feb. to produce bare-root transplants. Similarly, the 17 cultivars were seeded in 200 cell Blackmore trays to produce cell type transplants for trial purposes. Both types of plants were randomized within blocks and grown in the same plot. Transplanting occurred on 5 May, harvesting of each cultivar occurred when 50% or more of the onion stalks lodged. First onions were harvested on 23 August and the last onions were harvested on 6 Sept. Sizing of onions and quality were excellent this growing season. No bolting occurred in the Jumbo Onion Cv. Trial. Although, a significant amount of bolting was evident in Jumbo Onion Set Cv. Trial.

Jumbo Onions Con't

Bulb Shapes

The shapes were identified using a system adapted from Dessert Seed Co. Catalogue.

1. Flattened-Globe



2. Globe

3. High Globe

4. Spindle

5. Spanish

6. Flat

7. Thick Flat

8. Granex

9. Top

Oriental Vegetables

Twelve cultivars and/or strains of Oriental vegetables were direct seeded in the field on 4 July. Harvesting occurred on Aug. 26 and Sept. 27. Yield and quality were good.

Est. 1979

ASPARAGUS CULTIVAR TRIAL 1988

Harvest Dates: First - May 6

Last - June 15

Spacings: Row - 1 m, Plants - 0.30 m

Cultivar	Yield kg/ha*		Av. Wt./ Spear (g)	No. of Spears/plant	% Yield (Wt.)		% Plant Stand	Wt./plant (g)
	1988	1982-88			Harvested up to May 20			
Schwetzinger Meisterschuss	7406 a	47292	17.11	40.0	44		49	686.70
Lucullus 1-79	6910 a	40241	14.58	32.0	47		65	473.80
Rutgers Hybrid 204M	6093 ab	36279	14.98	24.9	43		71	377.60
Limburgia	4894 bc	24469	14.76	24.4	44		61	365.40
Martha Washington	4769 bc	30646	14.14	31.5	42		51	431.98
Centennial	4669 bc	32100	14.84	23.5	48		58	346.90
Viking 2G	3298 cd	22960	13.53	21.2	43		50	282.30
Rutgers Beacon	3295 cd	21174	13.35	24.6	44		42	334.30
WSU #2	2288 de	18142	14.10	16.4	45		46	232.60
Diane	1702 de	14839	14.70	14.1	49		35	216.70
WSU #1	1678 de	11342	12.89	13.3	47		40	173.60
WSU 12XT	1393 de	9657	13.50	15.3	42		26	212.70
WSU 11XT	1374 de	10742	13.58	12.0	44		29	171.50
WSU 11XC	1369 de	9605	15.11	10.8	43		37	159.40
WSU 12XC	1073 e	8873	11.37	16.0	51		22	193.10

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

ASPARAGUS CULTIVAR TRIAL 1988

Est. 1980

Harvest Dates: First - May 6

Last - June 15

Spacings: Rows - 1 m, Plants - 0.30 m

Cultivar	Yield kg/ha*		Av. Wt./ Spear (g)	No. of Spears/plant	% Yield (Wt.)		% Plant Stand	Wt./plant (g)
	1988	1983-88			Harvested up to May 20			
Lucullus Midseason	8288 a	46578	16.56	32.7	47		68	535
Lucullus 314	7482 ab	40184	18.19	30.6	45		60	554
Lucullus Early	6596 bc	37077	15.60	29.2	42		64	456
Lucullus 327	6528 bc	38649	15.03	30.6	41		65	451
Lucullus Late	6179 bc	40442	15.85	27.3	43		60	437
Lucullus 315	6084 bc	33257	16.57	28.0	46		59	469
Lucullus 323	5655 cd	29877	14.97	28.1	41		60	420
Lucullus 325	5448 cd	36043	14.11	27.2	47		62	386
Minerve	5364 cd	31606	21.70	20.9	46		52	454
Viking 2K	4183 d	23278	16.58	19.8	39		57	324
Larac	4091 d	25596	18.19	18.9	45		55	355
Junon	4030 d	28788	22.23	17.8	42		46	388
Cito	2278 e	16026	13.74	17.2	58		42	236
Mira	2034 e	19918	17.01	15.9	43		35	283
Aneto	1172 e	11406	13.77	17.0	47		29	230
Desto	898 e	13641	13.87	13.0	42		24	179
Bruneto	799 e	7510	13.59	12.0	44		21	174

Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

ASPARAGUS CULTIVAR TRIAL 1988

Est. 1985 MAIN TRIAL

Harvest Dates: First - May 6

Last - May 20

Spacings: Rows - 1 m, Plants - 0.30 cm

Cultivar	<u>Yield kg/ha *</u> 1988	<u>Av. Wt./</u> Spear (g)	<u>No. of</u> Spears/plant	<u>% Plant</u> Stand	<u>% ♀</u> Plants	<u>Wt./Plant</u> (g)
Franklim	2402 a	17.27	4.47	87	0	81.40
Lucullus Midseason	2115 a	15.47	4.55	88	3	71.70
Lucullus 1-79-1	2109 a	18.00	4.24	83	3	75.80
Larac	1201 b	16.23	3.15	70	34	50.70
Lucullus 1-79-6	1103 bc	16.66	3.80	55	0	64.50
Viking KB3	1086 bc	14.18	2.72	83	39	39.90
Jersey Giant	1065 bc	13.90	2.86	80	25	40.10
277C X 22-8	1002 bcd	15.86	2.47	78	0	39.10
40-207	984 bcd	15.49	2.59	76	1	40.10
Jersey Centennial	944 bcd	14.12	2.60	73	40	37.80
70-207	919 bcd	15.89	2.65	64	0	42.40
70-203	873 bcd	15.06	2.49	70	39	37.60
277E x 22-8	872 bcd	14.29	2.41	76	2	34.20
G193	607 bcd	14.32	2.89	88	0	41.20
G 171	573 bcd	12.30	2.89	95	0	36.00
Viking 2G	545 bcd	11.64	2.18	60	43	26.20
G 136	498 bcd	16.86	1.84	92	98	31.90
G 124	273 cd	18.71	1.00	90	84	18.30
G 158	179 d	10.95	1.36	78	0	14.10

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

ASPARAGUS CULTIVAR TRIAL 1988

Est. 1985 OBSERVATION TRIAL

Harvest Dates: First - May 6

Last - May 20

Spacings: Rows - 1m, Plants - 0.30 m

Cultivar	Yield kg/ha 1988	Av. Wt./		% Plant Stand	% ♀ Plants	Wt./Plant (g)
		Spear (g)	No. of Spears/plant			
Venlim	2220	21.34	4.22	74	0	90.00
Backlim	1626	24.16	3.37	60	37	81.30
Franklim	1120	12.82	3.45	76	0	44.20
52-205	703	14.63	2.05	56	5	31.20
Boonlim	667	14.08	3.23	44	0	45.45
G 188	384	12.18	2.08	91	75	25.36
#63 + #81-63	223	15.22	1.04	42	29	15.95
G 127	171	11.89	1.42	60	0	16.91
G 182	169	11.28	1.42	74	85	13.51

Seeded: 21 March
 Transplanted: 2 May
 Spacing: 75 cm x 45 cm

EARLY BROCCOLI CULTIVAR TRIALS 1988

MAIN TRIAL

Cultivar Source	Peak cut		% Stand	% Marketable Heads	Yield t/ha *	Mean Wt/ head (g)	Branch Length	Head Position	Bead Size	Brown Bead	Color External	Uniformity of Stock	Shape of Head	Soft Rot	Open Florets	Yellow Eye	Bracted	Loose	% Hollow Stem	Stem Diameter (mm)
	Date	% Cut																		
Emperor	June 30	56	96	99	13.6 a	481	3.5	3.3	3.0	5.0	3.5	4.9	4.4	5.0	4.2	3.6	4.9	4.7	7	41.0
Northrup King																				
Galaxy	June 24	50	98	99	13.3 a	461	2.6	3.7	2.0	5.0	3.7	4.8	4.3	5.0	4.5	3.2	4.5	4.7	6	40.8
Asgrow																				
Premium Crop	July 2	52	100	97	13.1 a	455	3.5	3.6	2.9	5.0	3.2	5.0	4.4	5.0	4.1	3.9	4.9	4.4	8	41.3
Takii																				
Cruiser	July 4	62	97	97	12.7 a	457	3.3	3.5	2.6	5.0	3.3	5.0	4.3	5.0	3.7	3.5	4.8	4.3	7	42.0
Royal Sluis																				
Neptune	July 1	47	99	95	12.7 a	453	3.8	3.4	2.5	5.0	3.7	4.8	3.4	5.0	3.9	3.3	3.7	4.1	25	38.3
Royal Sluis																				
Baccus	June 24	66	100	99	12.3 a	419	3.7	3.7	3.5	5.0	4.0	5.0	4.0	5.0	4.2	3.8	4.5	4.4	1	39.3
Asgrow																				
Packman	June 23	54	100	99	12.0 a	410	2.7	3.4	2.2	5.0	3.5	4.3	3.8	5.0	4.6	3.3	4.3	4.4	3	37.0
Reed's																				
Bucaneer	June 29	55	98	99	11.9 a	414	3.2	3.1	2.8	5.0	3.9	4.8	4.1	5.0	3.6	3.6	3.4	4.1	9	39.3
Petoseed																				
Paragon	June 24	52	99	98	11.4 a	396	4.3	4.4	2.9	5.0	3.8	4.9	4.5	5.0	4.2	3.5	4.9	4.4	70	36.8
Stokes																				
Ultra Green	July 3	43	82	92	10.9 a	467	3.2	2.6	2.4	5.0	3.6	5.0	4.0	5.0	3.5	3.4	3.6	4.6	0	43.0
Mikado																				

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

EARLY BROCCOLI CULTIVAR TRIALS 1988

Seeded: 21 March
 Transplanted: 2 May
 Spacing: 75 cm x 45 cm

Observation Trial (a)

Cultivar Source	Peak cut		% Stand	% Marketable Heads	Yield t/ha	Mean Wt/ head (g)	Branch Length	Head Position	Bead Size	Brown Bead	Color External	Uniformity of Stock	Shape of Head	Soft Rot	Open Florets	Yellow Eye	Bracted	Loose	% Hollow Stem	Stem Diameter (mm)
	Date	% Cut																		
Greenbelt Abbott & Cobb	July 4	71	100	100	17.43	588	3.0	2.8	2.0	5.0	3.0	5.0	4.0	5.0	5.0	3.0	4.5	5.0	16	43.0
Shining Green Ishihara	July 4	44	100	100	16.46	555	3.8	3.3	3.0	5.0	3.0	5.0	4.5	5.0	3.8	3.0	4.5	4.5	93	37.0
B81 Mikado	July 4	85	100	100	15.86	535	3.5	3.0	3.0	5.0	3.0	5.0	4.5	5.0	4.0	3.5	5.0	5.0	57	47.0
Greenbelt Northrup King	July 11	61	96	92	15.52	589	3.3	2.8	1.0	5.0	3.0	4.5	3.8	5.0	3.5	3.0	3.5	4.8	0	45.0
Top Star Northrup King	June 27	38	96	100	15.09	529	3.2	3.3	1.7	5.0	3.3	4.7	4.2	5.0	4.3	3.0	3.8	4.8	0	41.0
B82 Mikado	July 4	89	100	96	13.99	490	3.5	2.5	3.0	5.0	3.0	5.0	4.5	5.0	4.0	4.0	5.0	5.0	65	45.0
Eureka Stokes	July 11	55	100	100	13.88	468	3.5	3.5	2.0	5.0	3.5	5.0	5.0	5.0	4.0	3.0	4.0	5.0	59	41.0
Prominence Harris-Moran	July 4	63	100	100	13.61	459	3.7	4.2	2.3	5.0	4.0	5.0	3.8	5.0	3.3	3.2	4.2	4.2	0	40.0
Midori 71 Mikado	June 27	77	100	96	13.31	466	2.8	3.0	2.0	5.0	3.3	5.5	4.3	5.0	4.3	3.3	4.8	4.8	0	43.0
Royal Green S Mikado	June 27	61	96	96	13.06	476	3.0	3.0	2.0	5.0	4.0	5.0	4.0	5.0	4.3	3.8	4.5	4.3	19	45.0
BUX 5BR18 Burpee	June 24	70	100	100	12.87	434	3.8	3.7	3.5	5.0	3.3	4.5	4.0	5.0	4.0	3.8	4.3	4.0	4	32.0
B620 Mikado	June 30	46	100	100	12.69	428	3.0	3.2	2.2	5.0	3.0	5.0	4.3	5.0	3.8	4.0	5.0	4.7	0	40.0
Bright Green Ishihara	July 4	61	96	92	12.56	477	3.5	2.8	2.0	5.0	3.5	5.0	4.0	5.0	3.8	3.8	3.5	4.5	8	39.0
B711 Mikado	July 11	39	100	100	12.51	422	3.5	3.0	3.0	5.0	3.0	5.0	4.5	5.0	3.5	3.0	4.0	4.5	44	38.0

EARLY BROCCOLI CULTIVAR TRIALS 1988

Observation Trial (b)

Cultivar Source	Date	% Cut	% Stand	% Marketable Heads	Yield t/ha	Mean Wt/ head (g)	Branch Length	Head Position	Bead Size	Brown Bead	Color External	Uniformity of Stock	Shape of Head	Soft Rot	Open Florets	Yellow Eye	Bracted	Loose	% Hollow Stem	Stem Diameter (mm)	
Zeus	June 27	48	93	92	12.34	489	3.8	3.5	3.0	5.0	2.8	4.5	4.0	5.0	3.8	3.3	3.5	4.0	4	39.0	
Takii	July 11	65	100	96	12.29	431	3.0	3.3	2.3	5.0	3.7	5.0	3.7	5.0	3.7	3.0	4.2	4.3	0	43.0	
Commander Stokes	July 4	26	100	100	12.18	411	3.6	3.6	3.5	5.0	3.8	5.0	3.5	5.0	4.0	3.3	2.6	3.6	0	32.0	
Excalibur	July 11	59	100	88	12.12	460	3.8	3.3	1.5	5.0	3.8	5.0	3.8	5.0	3.5	3.0	3.5	4.2	12	33.0	
Harris Moran	July 11	36	92	100	12.12	442	3.0	3.0	1.0	5.0	3.0	5.0	4.5	5.0	3.5	3.0	5.0	4.5	0	43.0	
Orion	June 27	66	88	95	12.01	476	3.8	4.0	1.5	4.0	3.0	5.0	3.8	5.0	3.8	3.3	3.0	5.0	4.0	8	34.0
Asgrow	July 16	50	96	88	11.96	474	4.0	3.3	2.3	5.0	3.5	4.7	3.5	4.5	3.0	3.0	3.3	3.8	0	40.0	
Skiff	June 27	44	100	88	11.91	452	3.3	3.2	1.3	5.0	3.8	5.0	3.5	5.0	2.8	3.0	2.0	3.6	4	39.0	
Royal Sluis	June 27	38	96	92	11.25	427	4.3	3.5	3.3	5.0	3.7	5.0	4.0	5.0	3.7	4.0	4.3	4.3	4	42.0	
Pinnacle	July 4	66	100	96	11.07	388	3.3	3.0	3.0	5.0	3.3	4.5	4.0	5.0	4.5	3.5	4.5	4.5	0	41.0	
Takii	June 30	42	89	100	10.81	410	3.2	2.8	1.7	5.0	3.5	5.0	4.0	5.0	3.0	3.0	4.5	4.3	0	42.0	
Para Green	July 25	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	2.0	2.0	3.5	5.0	100	50.0
Mikado	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Citation	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Harris Moran	July 25	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	2.0	2.0	3.5	5.0	100	50.0
Ever Green	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Ishihara	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Mariner	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Petoseed	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Brigadier	June 30	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	3.0	3.0	4.5	4.3	0	42.0
Petoseed	July 25	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	2.0	2.0	3.5	5.0	100	50.0
Samurai	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Abbott & Cobb	July 25	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	2.0	2.0	3.5	5.0	100	50.0
PSR 20984	June 27	52	100	100	10.42	352	3.3	2.8	3.5	5.0	3.5	5.0	4.3	5.0	5.0	3.7	5.0	4.5	0	41.0	
Petoseed	July 25	52	92	68	10.64	570	3.5	3.0	1.0	3.0	3.0	5.0	5.0	4.0	5.0	2.0	2.0	3.5	5.0	100	50.0

EARLY BROCCOLI CULTIVAR TRIALS 1988

Observation Trial (c)

Cultivar Source	Date	% Cut	% Stand	% Marketable Heads	Yield t/ha	Mean Wt/ head (g)	Branch Length	Head Position	Bead Size	Brown Bead	Color External	Uniformity of Stock	Shape of Head	Soft Rot	Open Florets	Yellow Eye	Bracted	Loose	% Hollow Stem	Stem Diameter (mm)
Embassy Asgrow	June 27	37	100	100	9.98	337	3.0	3.3	4.7	5.0	3.8	5.0	4.3	5.0	3.2	4.0	5.0	4.3	0	40.0
Green Garden Ishihara	June 26	96	100	100	9.98	337	4.0	4.0	3.0	5.0	3.5	5.0	4.5	5.0	4.0	3.5	4.5	4.5	67	35.0
Top Star Northrup King	June 24	48	100	100	9.33	315	3.3	3.8	2.0	5.0	3.5	4.7	3.8	5.0	3.8	3.2	3.3	3.8	0	32.0
Chancellor Northrup King	July 11	55	100	70	8.34	340	3.5	3.3	2.0	5.0	4.0	4.0	4.0	5.0	3.0	3.0	4.0	4.0	0	35.0
PSR 35184 Petoseed	June 27	57	96	96	8.01	292	3.5	3.0	3.5	5.0	3.3	4.5	3.5	5.0	4.5	3.3	5.0	3.8	0	36.0
Emerald Green Ishihara	July 25	78	85	4	0.88	800	3.5	3.5	4.0	5.0	3.5	5.0	3.0	5.0	4.5	3.0	2.0	2.0	100	44.0

EARLY CABBAGE CULTIVAR TRIAL 1988

Seeded: 22 March
Transplanted: 2 May
Spacing: 75cm x 45 cm

				Harvest 1				Harvest 2																														
				% Marketable Heads	Yield *		Average Head Wt. (kg)	% Unmarketable **	Marketable Heads				Yield		Average Head Wt. (kg)	% Unmarketable	Uniformity of Stock				Length of Stock		Shape of Head		Habit		Color External		Savoying of Leaf		Head Protection		Color Internal		Core Size		Internal Breakdown	
Cultivar Source		Harvest Date	%	Marketable Heads	t/ha				%	Marketable Heads	t/ha				%	Unmarketable	5.0	2.0	3.0	2.1	3.4	1.0	3.3	4.0	4.0	5.0	5.0	H1	H2									
Grenadier Stokes		July 5	98	60.2 a	2.08	1			100	65.4		2.21					5.0	2.0	3.0	2.1	3.4	1.0	3.3	4.0	4.0	5.0	5.0											
Applause Harris Moran		July 18	88	41.9 b	1.61	1			100	68.4		2.31					5.0	1.9	3.0	2.1	2.6	1.5	3.4	4.5	3.6	5.0	4.8											
Sun Up Harris Moran		July 5	88	40.2 bc	1.55	1,2			88	47.2		1.84	1,2,3	5.0	1.4	3.0	2.0	3.1	1.1	3.3	4.0	3.8	5.0	4.5														
Headstart Asgrow		June 29	98	36.7 bc	1.27	4			98	54.8		1.90	1				5.0	2.3	3.0	3.4	2.9	1.3	3.3	3.8	3.0	5.0	5.0											
Early Marvel Stokes		June 24	98	31.1 bcd	1.08	1			73	30.6		1.46	2				5.0	2.0	4.8	2.5	4.2	1.3	2.6	3.9	2.9	5.0	5.0											
Tucana Royal Sluis		June 26	83	30.0 cd	1.24	1,2			70	24.1		1.20	2				5.0	1.5	3.0	2.5	3.0	1.5	3.1	4.0	3.4	5.0	3.8											
Green Express Sakata		June 29	75	28.4 cd	1.00	2			65	46.9		1.43	1,2				5.0	1.3	3.0	2.8	3.3	1.0	3.6	3.9	3.6	5.0	5.0											
Atleta Seedway		June 24	95	24.3 d	0.86	4			90	41.3		1.55	1,2				4.8	2.0	4.0	2.8	3.0	1.0	3.0	4.0	4.0	5.0	5.0											
Early Greenball Stokes		June 22	95	21.4 d	0.76	1,2			58	23.1		1.37	2				5.0	1.0	3.0	1.3	3.1	1.0	3.0	4.0	3.4	5.0	5.0											
Rapid Seedway		June 19	98	20.5 d	0.71	1			65	23.6		1.30	2				5.0	1.1	3.0	1.3	3.0	1.1	2.4	3.3	4.3	5.0	5.0											

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

**Coding for Reason Unmarketable: Small-1, Split-2, Rotten-3, Multihead-4

EARLY CABBAGE CULTIVAR TRIAL 1988

Seeded: 22 March
 Transplanted: 2 May
 Spacing: 75 cm x 45 cm

OBSERVATION TRIAL

Cultivar Source	Harvest Date	Harvest 1						Harvest 2						Uniformity of Stock	Length of Stock	Shape of Head	Habit	Color External	Savoying of Leaf	Head Protection	Color Internal	Core Size H1	Core Size H2	Internal Breakdown			
		% Marketable Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable*	% Marketable Heads	t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	t/ha	Average Head Wt. (kg)	Reason Unmarketable															
NIZ 86-576 F 1	July 5	100	50.4	1.70	90	46.5	1.74	3	5.0	2.0	3.0	2.5	3.0	1.5	3.0	4.0	3.0	5.0	3.5								
Nickerson Zwaan																											
Market Victor	July 18	90	42.7	1.60	1	90	77.9	2.92	1	4.0	1.5	3.0	2.0	3.0	1.0	3.0	3.5	4.0	5.0	5.0							
Harris Moran																											
Regalia Stokes	July 6	100	41.5	1.40	100	48.0	1.62		5.0	1.0	3.0	2.0	3.0	1.0	3.0	3.5	4.5	5.0	5.0								
Charmant Sakata	July 18	90	41.5	1.55	1	90	45.9	1.72	2	5.0	1.0	3.0	1.5	3.0	1.0	3.0	3.5	3.5	5.0	5.0							
Balbro	July 5	100	39.4	1.33	90	38.5	1.44	1	5.0	1.5	3.0	1.0	3.5	1.0	3.0	4.0	4.0	5.0	5.0								
Nickerson Zwaan																											
Princess Sakata	July 6	90	38.8	1.45	4	90	54.5	2.04	2	5.0	1.5	3.0	2.0	3.0	1.0	3.5	4.0	3.0	5.0	5.0							
Heads Up	July 5	100	37.9	1.28	90	45.9	1.72	4	5.0	2.0	3.0	2.0	3.0	1.0	3.0	4.0	3.0	5.0	5.0								
Harris Moran																											
Emerald Cross	June 30	100	37.0	1.25	100	41.8	1.41		5.0	1.0	3.0	1.0	3.0	1.5	3.0	3.5	2.5	5.0	5.0								
Burpee																											
Delphi	June 27	100	37.0	1.25	20	9.5	1.60	2	5.0	1.0	3.0	2.0	2.5	1.0	3.0	3.5	3.0	5.0	5.0								
Royal Sluis																											
Polar Green	June 29	100	31.7	1.07	100	43.5	1.47		5.0	1.0	3.0	2.0	3.0	1.0	3.0	4.0	4.5	5.0	5.0								
Stokes																											
Ramco	July 18	100	30.8	1.04	100	55.4	1.87		5.0	2.0	3.0	2.5	3.0	1.5	3.5	3.5	2.5	5.0	5.0								
Northrup King																											
Costello	July 11	100	30.8	1.04	100	53.6	1.81		5.0	2.5	3.0	1.5	3.5	1.0	3.5	4.0	4.0	5.0	5.0								
Stokes																											
Delight Ball	June 24	100	30.2	1.02	90	41.2	1.54	2	5.0	1.0	3.0	2.0	3.5	1.0	3.0	3.5	3.5	5.0	5.0								
Mikado																											
0702	June 24	90	26.1	0.98	1	75	43.5	1.96	1,2	4.5	1.5	3.0	2.0	3.0	1.0	3.5	4.0	3.5	5.0	5.0							
Mikado																											

* Coding for Reason Unmarketable = Small - 1, Split - 2, Rotten - 3, Multihead - 4.

LATE WHITE CABBAGE CULTIVAR TRIAL 1988

Seeded: 24 May
 Transplanted: 28 June
 Spacing: 75 cm x 45 cm

MAIN TRIAL

Cultivar Source	Harvest Date	Harvest 1						Harvest 2						Core Size	H1	H2	Internal Breakdown			
		% Marketable Heads	Yield * t/ha	Average Head Wt. (kg)	Reason Unmarketable**	% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	Uniformity of Stock	Length of Stock	Shape of Head	Habit	Color External	Savoying of Leaf	Head Protection	Color Internal			
Safekeeper Stokes	Oct. 20	98	87.1 a	3.02	1	98	83.5	2.90	1	4.9	1.9	3.0	4.1	2.9	1.0	2.4	4.0	3.1	5.0	5.0
Hinova Seedway	Oct. 6	100	83.5 a	2.82		98	86.3	3.02	2	5.0	2.1	3.1	4.0	3.0	1.4	2.9	3.4	3.3	5.0	5.0
Winterkeeper Stokes	Oct. 6	98	78.2 ab	2.71	1	98	90.9	3.14	1	5.0	2.1	3.0	3.1	2.4	1.0	3.0	3.6	3.3	5.0	5.0
Superdane Reeds	Oct. 20	100	70.8 bc	2.39		98	77.1	2.67	4	4.9	1.5	3.0	3.9	3.4	1.0	3.0	4.0	2.9	5.0	5.0
Lennox Seedway	Oct. 20	98	67.3 bc	2.33	1	98	70.0	2.43	4	4.9	1.5	2.8	3.5	2.8	1.0	3.0	3.7	2.8	5.0	5.0
Polinius Seedway	Oct. 20	95	61.1 cd	2.16	1	100	6.35	2.14		5.0	2.3	2.5	3.3	2.9	1.0	3.0	3.6	2.3	5.0	5.0
Multiton Nickerson Zwaan	Oct. 20	93	60.4 cd	2.19	4,1	95	71.9	2.55	1	5.0	2.5	2.9	1.6	2.9	1.0	3.3	3.9	2.9	5.0	5.0
Bartolo Seedway	Oct. 20	93	54.8 d	2.01	1,4	98	57.1	1.97	3	5.0	2.5	2.8	3.3	3.0	1.0	3.0	3.8	2.5	5.0	5.0
April Green Stokes	Oct. 20	80	43.4 e	1.82	1,4	95	55.1	1.95	1	4.3	2.1	2.8	3.8	3.5	1.0	3.1	3.6	2.6	5.0	5.0
Zerlina Seedway	Oct. 31	35	11.5 f	1.49	1,4	68	26.7	1.34	1	5.0	3.3	2.8	2.0	2.8	1.0	3.3	2.4	3.1	5.0	5.0

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

**Coding for reason unmarketable: Small-1, Split-2, Rotten-3, Multihead-4

LATE WHITE CABBAGE CULTIVAR TRIAL 1988

Seeded: 24 May
 Transplanted: 28 June
 Spacing: 75 cm x 45 cm

	Cultivar Source	Harvest Date	Harvest 1						Harvest 2						Color External	Savoying of Leaf	Head Protection	Color Internal	Core Size	H1	H2	Internal Breakdown
			% Marketable Yield	t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	t/ha	Average Head Wt. (kg)	Reason Unmarketable	Uniformity of Stock	Length of Stock	Shape of Head	Habit								
Blue Boy	Abbott & Cobb	Sept. 29	80	113.8	4.80	3	80	94.5	3.99	3	5.0	2.0	4.0	4.0	1.0	3.5	5.0	3.5	5.0	5.0	5.0	5.0
RS86265	Royal Sluis	Oct. 6	100	112.3	3.79		100	101.0	3.41		5.0	2.0	3.5	3.0	3.5	1.0	3.5	3.5	2.0	5.0	5.0	
Rio Verde	Harris Moran	Sept. 29	100	104.9	3.54		90	103.7	3.88	2	5.0	1.0	4.5	3.5	3.5	1.0	3.0	4.5	3.5	5.0	5.0	
Falcon	Royal Sluis	Oct. 19	90	104.3	3.91	1	80	89.5	3.78	2,3	4.5	2.0	3.0	5.0	4.0	1.0	2.0	4.0	4.5	5.0	5.0	
RS87512	Royal Sluis	Sept. 29	90	96.6	3.62	3	100	123.0	4.15		5.0	1.5	4.0	4.0	3.0	1.0	3.5	3.5	2.5	4.0	5.0	
Ramco	Northrup King	Sept. 29	100	95.4	3.22		100	108.1	3.65		5.0	1.5	3.0	3.5	3.0	1.0	2.5	3.5	2.5	4.5	5.0	
Atria	Royal Sluis	Oct. 6	100	93.6	3.16		100	87.7	2.96		5.0	2.0	3.0	3.5	3.5	1.0	3.0	3.5	2.0	5.0	5.0	
Multikeeper YT	Stokes	Oct. 6	100	93.0	3.14		90	99.6	3.73	4	5.0	1.5	3.0	4.0	3.0	1.0	3.0	4.0	3.0	5.0	5.0	
Hybrid 1041	Kees Proersen	Oct. 6	100	87.1	2.94		90	80.9	3.03	2	4.5	2.0	3.0	4.0	3.5	1.5	3.5	3.5	3.0	5.0	5.0	
Sagitta	Royal Sluis	Sept. 29	100	85.3	2.88		100	107.3	3.62		5.0	1.5	3.0	3.5	3.5	1.0	3.0	4.0	4.0	5.0	5.0	
RS87515	Royal Sluis	Sept. 29	100	85.0	2.87		90	99.6	3.73	2	5.0	2.0	3.0	3.5	3.0	1.0	3.5	3.5	4.0	5.0	5.0	
Olympic	Northrup King	Oct. 6	90	85.0	3.18	1	100	106.4	3.59		5.0	2.0	3.0	4.0	3.0	1.0	3.0	4.0	2.0	5.0	5.0	
Prime Choice YT	Stokes	Sept. 29	100	81.5	2.75		100	77.3	2.61		5.0	1.0	4.0	4.0	4.0	1.0	3.5	3.5	4.0	5.0	5.0	
RS85236	Royal Sluis	Sept. 29	100	79.4	2.68		100	90.7	3.06		5.0	1.5	3.0	3.0	3.0	1.0	3.0	3.0	3.5	5.0	5.0	
Erdeno	Royal Sluis	Sept. 29	80	78.5	3.31	1,4	100	112.9	3.81		5.0	1.5	3.0	4.0	3.5	1.0	3.0	4.5	3.0	5.0	5.0	

LATE WHITE CABBAGE CULTIVAR TRIAL 1988

LATE WHITE CABBAGE CULTIVAR TRIAL 1988

Observation Trial (c)

Cultivar Source	Harvest Date	Harvest 1					Harvest 2					Uniformity of Stock	Length of Stock	Shape of Head	Habit	Color External	Savoying of Leaf	Head Protection	Color Internal	Core Size	H1	H2	Internal Breakdown
		% Marketable Yield	t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	t/ha	Average Head Wt. (kg)	Reason Unmarketable														
Zodiac Royal Sluis	Sept. 1	100	45.0	1.52		20	16.3	2.75	3,2	5.0	2.0	3.0	1.0	3.0	1.0	3.0	4.0	4.0	5.0	5.0			
Bison Nickerson Zwaan	Oct. 19	90	44.1	1.65	1	100	46.5	1.57		5.0	2.5	2.5	3.5	3.0	1.0	3.0	3.5	2.0	5.0	5.0			
Centron Nickerson Zwaan	Sept. 8	100	40.9	1.38		90	64.6	2.42	3	5.0	1.5	3.0	2.0	3.0	1.0	4.0	4.0	2.5	5.0	5.0			
Metino Royal Sluis	Sept. 1	100	39.1	1.32		50	39.1	2.64	2,3	5.0	1.0	4.0	1.0	1.0	1.0	3.5	4.0	2.5	5.0	5.0			
0702 Mikado	Sept. 1	50	38.8	2.62	3	0	-	-	2	5.0	3.0	3.0	4.0	3.0	1.0	3.0	4.0	4.0	5.0	-			
Ranger Elsoms	Oct. 20	70	30.5	1.47	1,4	100	44.1	1.49		5.0	2.5	3.0	2.0	4.0	3.0	3.5	3.0	3.0	5.0	5.0			
RS 86268 Royal Sluis	Oct. 20	30	10.1	1.33	1		-	-		4.0	2.0	3.0	3.5	4.0	1.0	2.5	3.0	3.0	5.0	-			
NIZ 86630 Nickerson Zwaan	Sept. 1	20	8.9	1.50	2,3	0	-	-	2	5.0	1.0	2.5	2.0	3.0	1.0	3.5	4.0	3.5	5.0	-			

Coding for Reason Unmarketable - Small - 1, Split - 2, Rotten - 3, Multihead - 4.

LATE RED CABBAGE CULTIVAR TRIAL 1988

Seeded: 19 May
 Transplanted: 23 June
 Spacing: 75 cm x 45 cm

MAIN TRIAL

82

Cultivar Source	Harvest Date	% Marketable Heads	Harvest 1				Harvest 2				Uniformity of Stock	Length of Stock	Shape of Head	Habit	Savoying of Leaf	Head Protection	Core Size	Internal Breakdown	
			Yield* t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	H1							H2		
Red Hybrid #5 Reeds	Sept. 14	98	63.7 a	2.20	4	93	79.8	2.91	2,4	5.0	1.5	3.0	2.0	1.0	3.5	2.1	5.0	4.9	
Hardoro Seedway	Sept. 22	93	55.5 ab	2.03	1	97	75.8	2.64	1,3	5.0	2.5	2.0	3.3	1.0	3.2	3.5	5.0	5.0	
Solid Red 781 Abbott & Cobb	Sept. 8	88	54.1 ab	2.09	2,1,3	40	38.0	3.22	2,3	5.0	1.8	3.0	1.8	1.3	3.0	2.8	4.9	5.0	
Roadsnit Nickerson Zwaan	Sept. 28	95	52.6 ab	1.87	2,1	88	56.1	2.15	1,3,4	4.3	2.6	2.5	3.6	1.0	3.1	3.0	3.8	3.8	
Rodon Nickerson Zwaan	Sept. 24	90	52.1 ab	1.95	1	95	64.9	2.30	1	4.5	2.9	2.5	3.8	1.0	3.4	3.4	5.0	5.0	
Hybrid Red Head Stokes	Sept. 8	78	50.7 ab	2.21	2	58	59.3	3.47	2,4	4.8	2.6	2.8	2.3	1.3	3.1	2.5	5.0	5.0	
Ruby Perfection Stokes	Sept. 19	95	48.8 bc	1.74	1	88	59.6	2.29	3,1	4.9	1.5	3.0	2.5	1.0	3.0	2.3	5.0	5.0	
Pierrette Stokes	Sept. 8	73	44.1 bc	2.05	1,2,3	35	32.9	3.10	2.3	4.9	1.5	3.0	2.0	1.0	3.3	3.0	4.9	4.8	
Ruby Ball Takii	Sept. 8	85	43.9 bc	1.75	1,2	63	49.0	2.62	2,4	4.8	1.4	3.0	1.8	1.3	2.6	2.9	5.0	3.8	
Super Red Ferry Morse	Sept. 8	73	36.3 c	1.80	1	60	39.1	2.22	2,1	4.3	1.7	3.0	2.5	1.5	3.3	2.3	5.0	5.0	

Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

LATE RED CABBAGE CULTIVAR TRIAL 1988

Seeded: 19 May
Transplanted: 23 June
Spacing: 75 cm x 45 cm

OBSERVATION TRIAL (a)

Cultivar Source	Harvest Date	% Marketable Yield	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	Uniformity of Stock	Length of Stock	Shape of Head	Habit	Savoying of Leaf	Head Protection	Core Size	Internal Breakdown	
																	H1	H2
April Red Stokes	Oct. 6	100	59.3	2.0		90	63.7	2.4	4	4.5	2.0	2.0	3.5	1.0	3.0	4.0	5.0	5.0
Late Storing Red Reeds	Oct. 11	100	56.0	1.9		100	88.9	3.0		4.5	3.0	2.0	2.0	1.0	2.5	3.0	5.0	5.0
Red Debut Harris Moran	Sept. 29	90	54.8	2.1	1	70	36.7	1.8	3	4.0	1.0	3.0	3.0	1.0	2.5	3.0	5.0	4.5
Superstar Kees Broersen	Sept. 29	90	53.6	1.6	1	100	68.4	1.4		5.0	3.0	2.0	2.0	1.0	3.0	3.5	5.0	5.0
Lasso Johnny's	Sept. 6	100	53.3	1.8		70	51.0	2.5	2	4.0	2.5	3.5	2.0	1.5	2.5	4.0	5.0	5.0
Superstar 528 Kees Broersen	Sept. 19	100	47.4	1.6		100	55.7	1.9		4.0	3.5	2.0	3.0	1.0	2.5	3.5	5.0	5.0
April Red Stokes	Sept. 6	90	45.9	1.7	1	100	69.0	2.3		4.5	3.0	2.0	3.0	1.0	3.5	2.5	5.0	5.0
Expo F-1 Nickerson Zwaan	Oct. 11	80	45.6	1.9	1	80	51.0	2.2	4	5.0	3.0	2.0	2.5	1.0	3.0	3.0	5.0	5.0
RS87126 Royal Sluis	Sept. 6	90	44.4	1.7	2	50	38.2	2.6	2	5.0	2.5	3.0	3.0	1.0	3.0	3.0	5.0	5.0
RS87119 Royal Sluis	Sept. 6	80	41.8	1.8	1	30	19.6	2.2	2	5.0	2.0	3.0	2.0	1.0	3.5	3.0	5.0	5.0
Rodeo Nickerson Zwaan	Sept. 6	80	41.5	1.8	2	75	55.1	2.5	2	5.0	2.5	2.5	2.5	1.0	3.0	2.0	5.0	5.0
1034 Kees Broersen	Sept. 29	90	40.6	1.5	3	33	13.0	1.3	3	4.0	3.0	2.5	3.0	1.0	2.5	2.0	5.0	5.0

LATE RED CABBAGE CULTIVAR TRIAL 1988

Cultivar Source	Harvest Date	Harvest 1						Harvest 2						Core Size	H1	H2	Internal Breakdown	
		% Marketable Yield	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	Uniformity of Stock	Length of Stock	Shape of Head	Habit	Savoying of Leaf	Head Protection			
RS87117 Royal Sluis	Sept. 6	80	40.0	1.7	2	50	24.9	1.7	2	5.0	2.0	3.0	3.0	1.5	3.0	3.0	5.0	5.0
1032 F-1 Kees Broersen	Oct. 6	100	38.8	1.3		90	63.7	2.4	5	4.5	3.0	2.0	4.0	1.0	2.5	3.5	5.0	5.0
HXP 3223 Harris Moran	Sept. 6	70	37.9	1.8	1	70	63.7	3.1	2	4.0	2.0	3.0	3.0	1.5	3.0	2.5	5.0	5.0
Lucille Stokes	Sept. 6	70	32.6	1.6	2	60	41.2	2.3	2	5.0	2.5	2.0	3.0	1.0	2.5	2.0	5.0	5.0
' Bambina Kees Broersen	Sept. 6	70	32.3	1.6	2	80	43.9	1.9	2	4.5	1.5	2.0	2.0	1.0	3.5	3.5	5.0	5.0
' Norma Seedway	Sept. 6	70	32.3	1.6	4	70	29.9	1.4	2	5.0	2.5	2.0	3.0	1.0	3.0	2.0	5.0	5.0
St. Pancras Seedway	Sept. 6	80	29.3	1.2	2	50	25.2	1.7	2	4.0	1.0	3.0	2.0	1.5	3.0	3.0	5.0	5.0

Code for Reason Unmarketable = Small - 1, Split - 2, Rotten - 3, Multihead - 4.

SAVOY CABBAGE CULTIVAR TRIAL - 1988

Seeded:	20 May	Harvest 1										Harvest 2									
		% Marketable Heads	Yield*	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	Yield	Average Head Wt. (kg)	Reason Unmarketable	Uniformity of Stock	Length of Stock	Shape of Head	Habit	Color External	Savoying of Leaf	Head Protection	Color Internal	Core Size	H1	H2	Internal Breakdown
Cultivar Source	Harvest Date	%	t/ha			%	t/ha														
Winterstar Seedway	Oct. 18	93	61.7	a	2.25	1	98	82.2	2.85	1	5.0	2.3	4.4	3.9	2.8	1.8	3.1	4.0	3.0	5.0	5.0
Savoy Queen Stokes	Oct. 19	83	57.6	ab	2.38	1,3,4	3	1.5	2.10	2	4.9	1.9	3.9	3.3	3.0	3.1	3.0	.	2.4	5.0	5.0
Canada Savoy Stokes	Oct. 10	95	54.6	ab	1.95	3	85	84.4	3.36	1,2,3	5.0	1.6	3.1	3.0	3.0	4.2	3.1	.	4.1	5.0	3.0
Chieftain Savoy Stokes	Oct. 15	85	46.8	bc	1.83	1,3	48	42.5	2.77	2,3,4	4.0	1.5	3.5	3.6	3.0	3.9	3.0	.	2.1	5.0	4.8
Hamasa Seedway	Oct. 9	98	41.6	bc	1.44	1	100	51.6	1.74		5.0	2.1	3.5	2.5	3.4	4.3	3.5	2.9	3.1	5.0	4.3
Beludy Nickerson Zwaan	Oct. 17	93	40.4	c	1.49	1,3,4	76	40.9	1.73	3,1	5.0	2.0	3.5	3.0	3.5	4.0	3.1	3.1	2.5	5.0	4.9
Ice Prince Stokes	Oct. 22	80	36.0	c	1.58	3,1	63	38.8	1.95	3,1	4.8	1.6	3.8	3.4	3.3	3.1	2.9	3.4	2.8	5.0	4.5
Saria Royal Sluis	Oct. 12	87	35.5	c	1.37	3	47	20.5	1.38	3,4	4.5	1.8	3.0	3.3	4.0	4.2	3.0	2.7	1.3	5.0	5.0
NIZ 84 372 Nickerson Zwaan	Oct. 19	78	33.4	c	1.43	1,3	62	40.1	1.64	1,3	4.8	1.5	3.9	2.8	3.5	3.8	3.0	3.8	2.8	4.6	4.6

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different

SAVOY CABBAGE CULTIVAR TRIAL - 1988

Seeded: 20 May
 Transplanted: 23 June
 Spacing: 75 cm x 45 cm

OBSERVATION TRIAL

Cultivar Source	Harvest Date	Harvest 1						Harvest 2						Uniformity of Stock	Length of Stock	Shape of Head	Habit	Color External	Savoying of Leaf	Head Protection	Color Internal	Core Size	Internal Breakdown		
		% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	% Marketable Heads	Yield t/ha	Average Head Wt. (kg)	Reason Unmarketable	H1	H2														
Celtic Elsoms	Oct. 11	100	80.6	2.72		100	93.3	3.15		5.0	2.0	3.0	4.0	3.5	2.5	4.0	3.0	3.0	5.0	5.0					
Yeldina Seedway	Sept. 29	90	65.5	2.45	1	90	80.9	3.03	1	5.0	2.0	3.0	2.5	3.5	1.5	4.0	3.0	2.5	5.0	5.0					
RS 789510	Oct. 11	90	59.9	2.52	1,4	100	108.1	3.65		4.0	2.0	3.0	2.5	3.0	3.0	4.0	3.5	3.5	5.0	5.0					
Royal Sluis																									
Groeneto Nickerson Zwaan	Oct. 11	100	46.5	1.57		60	28.1	1.58	3	4.5	1.5	3.0	3.5	3.0	4.0	4.0	3.0	2.0	5.0	4.5					
Celsa Seedway	Oct. 11	100	44.4	1.50		-	-	-		5.0	2.5	2.0	3.5	2.5	2.5	3.5	2.5	3.0	5.0	-					
January King Elsoms	Oct. 11	90	42.1	1.57	4	100	50.7	1.71		5.0	1.5	4.5	3.0	3.5	3.0	3.5	3.0	2.5	5.0	5.0					
Blue Max Johnny's	Oct. 11	80	40.3	1.70	1,3	100	62.2	2.10		5.0	1.5	4.0	3.0	3.5	3.0	3.0	3.5	2.0	5.0	5.0					
Paravoy Nickerson Zwaan	Oct. 21	90	39.4	1.48	1	80	34.7	1.46	1	4.5	1.5	3.0	2.5	3.5	4.5	2.5	3.0	2.5	5.0	5.0					
Midvoy Nickerson Zwaan	Oct. 11	90	37.9	1.42	3	30	11.3	1.27	3	4.0	1.5	3.5	3.5	3.0	3.5	3.5	3.0	2.0	4.0	5.0					
Polecap Seedway	Oct. 11	100	37.0	1.25		100	53.6	1.81		5.0	2.5	3.0	2.5	3.0	2.0	3.5	3.0	2.5	5.0	5.0					
Savoy King Stokes	Sept. 9	40	27.5	2.33	1,3	60	24.6	2.18	1,2,3	3.0	1.5	5.0	3.0	3.0	3.0	3.0	3.5	3.0	5.0	5.0					
Taler Elsoms	Oct. 21	90	25.2	0.94	1	100	28.1	0.95		5.0	3.0	3.0	2.0	3.5	4.5	2.5	3.0	2.5	5.0	5.0					

Code for Reasons Unmarketable = Small - 1, Split - 2, Rotten - 3, Multihead - 4.

MIDSEASON CAULIFLOWER CULTIVAR TRIAL 1988

MAIN TRIAL	Cultivar Source	Peak Cut Date	% Cut	Duration of harvests (days)	Marketable Yield* Crates/ha	Plant stand as a % of target	Plants Cut Producing Marketable Curds	Marketable Curds			Reasons Unmarketable
								% Free from Defects	Cream or White %	Av. Degree of Curd Protection	
								%	%		
Snow Crown Stokes		Aug. 5	44	17	850.7 a	79	56	56	19	2.97	2,5
Revito Ohlsens Enke		Sept.19	52	21	681.7 ab	43	68	89	89	4.26	1,2,4
Taipan Stokes		Aug. 12	46	35	677.5 ab	60	49	38	36	3.38	2,3,4,5
Rami Ohlsens Enke		Aug. 4	80	17	396.5 abc	85	22	21	30	2.02	4,5,3
XPH 5105 Asgrow		Aug. 19	29	41	395.5 abc	74	23	93	79	3.27	2,3,4,5
Mt. Fuji Early Ishihara		Aug. 4	75	15	334.3 abc	73	18	55	17	2.64	4,5,3
Andes Royal Sluis		Aug. 14	43	27	311.5 abc	61	20	25	35	2.33	2,3,5,4
Vernon Royal Sluis		Aug. 29	34	30	299.5 abc	39	43	63	33	3.45	2,5,6
Candid Charm Northrup King		Aug. 14	47	36	215.3 bc	63	12	27	13	2.29	2,3,4,5
Menovi Ohlsens Enke		Aug. 7	59	23	90.2 c	39	11	13	13	2.38	4,5,3,2

Code for Reasons Unmarketable = Button - 1, Ricey - 2, Bracted - 3, Loose - 4, Yellow - 5, Discolored - 6.

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

MIDSEASON CAULIFLOWER CULTIVAR TRIAL 1988

Seeded: 10 May
 Transplanted: 9 June
 Spacing: 75 cm x 45 cm

Observation Trial (a)

Cultivar Source	Peak Cut		Duration of harvests (days)	Marketable Yield Crates/ha	Plant stand as a % of target	% Plants Cut Producing Marketable Curds	Marketable Curds			Reasons Unmarketable
	Date	% Cut					Free from Defects %	Cream or White %	Av. Degree of Curd Protection	
Mitra Ohlsens Enke	Sept. 19	57	28	1439.0	70	79	75	93	3.53	2
Majestic Northrup King	Aug. 4	94	4	1438.0	63	94	100	41	3.00	5
NIZ 86-552 Nickerson Zwaan	Aug. 8	50	46	1142.0	59	50	24	85	3.50	2
White Bishop Stokes	Aug. 4	63	46	1118.0	100	52	64	36	3.61	2,3,5
White Cliff Northrup King	Sept. 19	50	32	754.0	59	56	88	50	3.38	5
Svavit Ohlsens Enke	Sept. 19	90	19	708.0	37	80	88	75	3.75	2,3
White Rock Northrup King	Sept. 13	29	38	662.0	52	57	25	63	3.81	2,3,5
Early White 85 Stokes	Sept. 19	29	38	658.0	100	30	63	38	3.25	2,3,6
H718 Mikado	Sept. 13	39	42	640.0	67	39	86	43	3.21	2.5,
Ravella Royal Sluis	Aug. 8	38	42	640.0	59	44	57	43	3.07	2,5
White Sails Stokes	Aug. 15	26	16	572.0	70	36	0	57	3.36	2,3,5
Hormade Nickerson Zwaan	Aug. 15	70	30	548.0	37	60	66	50	2.58	2,3,4,5

MIDSEASON CAULIFLOWER CULTIVAR TRIAL 1988

Seeded: 10 May
 Transplanted: 9 June
 Spacing: 75 cm x 45 cm

Observation Trial (b)

Cultivar Source	Peak Cut		Duration of harvests (days)	Marketable Yield Crates/ha	Plant stand as a % of target	% Plants Cut Producing Marketable Curds	Marketable Curds			Reasons Unmarketable
	Date	% Cut					Free from Defects %	Cream or White %	Av. Degree of Curd Protection	
Polar Express Stokes	Aug. 12	24	42	494.0	78	29	33	66	3.25	2,3,5
Atos Royal Sluis	Sept. 13	41	28	457.0	44	42	100	100	3.08	1
White Castle Stokes	Aug. 25	36	29	340.0	41	36	0	75	3.38	2,3,5,
XPH 5058 Asgrow	Aug. 4	95	4	340.0	78	23	100	0	3.00	4,5
H717 Mikado	Sept. 19	41	38	286.0	100	15	75	100	4.00	2,3,6
Linas Royal Sluis	Sept. 19	50	38	274.0	30	38	100	100	3.83	2,3,4,5
RS 1896-4 Royal Sluis	Sept. 19	99	1	250.0	52	21	100	100	4.33	1
White Fox Northrup King	Aug. 12	10	1	183.0	15	50	0	50	3.50	2,3,5
Bonus F-1 Ohlsens Enke	Aug. 12	36	38	183.0	81	9	100	100	3.25	2,4,5
RS 83234 Royal Sluis	Aug. 12	86	7	154.0	52	14	0	0	3.00	2,3,4,5
Flanca Royal Sluis	Aug. 12	32	42	127.0	70	12	100	100	4.25	2,5
Snow Pak Petoseed	Sept. 19	99	1	99	52	14	0	100	2.50	1
Extra Early Snowball Stokes	Aug. 8	54	42	91	41	8	100	100	3.50	3,5
Repose Ohlsens Enke	Aug. 8	53	42	91	70	5	100	100	3.00	2,3,4,5

MIDSEASON CAULIFLOWER CULTIVAR TRIAL 1988

Seeded:	10 May		Duration of harvests (days)	Marketable Yield Crates/ha	Plant stand as a % of target	% Plants Cut Producing Marketable Curds	Marketable Curds			Reasons Unmarketable
	Observation Trial (c)	Peak Cut	% Cut				Free from Defects %	Cream or White %	Av. Degree of Curd Protection	
Cultivar Source	Date	% Cut								
Cloud Nine Stokes	Aug. 12	55	4	88	41	9	0	100	3.00	2,3,4,5
H83 Mikado	Aug. 8	37	14	0	30	-	-	-	-	2,4,5
Montana (SG 119) Northrup King	Aug. 12	58	42	0	70	-	-	-	-	2,3,5
NIZ 86-553 Nickerson Zwaan	Aug. 8	50	46	0	44	-	-	-	-	2,3,4,5
NIZ 86-554 Nickerson Zwaan	Sept. 19	15	1	0	15	-	-	-	-	1
Litca Ohlsens Enke	Aug. 8	91	42	0	41	-	-	-	-	2,3,4,6
Tuvis Ohlsens Enke	Sept. 19	93	6	0	52	-	-	-	-	1

Code for Reasons Unmarketable = Button - 1, Ricey - 2, Bracted - 3, Loose - 4, Yellow - 5, Discolored - 6.

ORIENTAL VEGETABLES OBSERVATION CULTIVAR TRIAL 1988-89

Cultivar Source	Harvest Date	Yield t/ha	Stand Plants/ha '000	Wt/ Plant (g)	% Unmarketable
Jade Pagona Harris Moran	Sept. 27	112.7	66	1845	9
Pak Choi 5928 Stokes	Aug. 26	99.9	155	692	7
Pak Choi Harris Moran	Aug. 26	94.4	144	653	7
Chinese Cabbage 5914 Stokes	Sept. 27	86.6	77	1418	21
Kingdom 65 Nickerson Zwaan	Sept. 27	83.8	77	1258	14
New Moon 60 Ishihara	Sept. 27	794	66	1190	0
Radish Cross Stokes	Aug. 26	62.2	105	622	5
Minowase, Radish	Aug. 26	62.2	105	658	10
Radish Spring Cross Stokes	Aug. 26	53.3	66	872	9
Michihli Harris Moran	Sept. 27	52.2	99	780	33
Early Hybrid G Harris Moran	Sept. 27	45.5	72	911	30
Kasumi Nickerson Zwaan	Sept. 27	39.9	72	800	30

GARLIC CULTIVAR TRIAL 1988

Clay Loam Soil

Planted: October 13, 1987
Harvested: July 13, 1988

Main Trial

Cultivar	Total	Yield t/ha*			No. of Cloves/ Bulb	Av. Wt./ Bulb (g)
		<50	50-57	57-63.5mm		
Music	5.1 a	3.17	1.45	0.47	6.63	38
Zdruluk	3.7 b	2.77	0.89	.	8.46	28
Wally Scott	3.5 bc	2.25	1.25	.	8.42	29
Milroy	3.5 bc	3.02	0.48	.	8.96	29
Krawczyk	3.4 bcd	2.89	0.51	0.03	8.25	26
Bollibruk	3.3 bcd	2.95	0.39	.	5.17	28
Chets	3.0 bcde	1.97	0.99	0.08	12.33	26
Vessey	2.8 cdef	2.26	0.54	.	8.29	23
Dmetruic	2.8 def	2.40	0.31	0.05	8.91	23
Bolle	2.5 efg	2.49	0.03	.	6.79	21
Feden S.S.	2.5 efg	2.09	0.41	.	9.00	20
Kowaluk	2.3 efgh	1.98	0.37	.	8.58	19
McIntyre	2.3 fgh	2.19	0.12	.	8.50	17
Cerenza	2.2 fghi	2.15	0.07	.	8.04	19
Fedenchuk	2.0 ghi	1.63	0.34	0.04	7.75	20
Krell	1.9 ghi	1.81	0.13	.	8.25	17
Thermidrome '86	1.9 ghi	1.82	0.09	.	8.04	18
Germidour S.S.	1.8 ghi	1.64	0.17	.	5.78	16
Germidour	1.6 hi	1.51	0.09	0.04	7.25	18
Oregon Early	1.5 i	1.44	0.07	.	8.75	17

*Note Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

GARLIC CULTIVAR TRIAL

Clay Loam Soil

Planted: October 13, 1987
Harvested: July 13, 1988

Observation Trial

Cultivar	Yield t/ha			No. of Cloves/Bulb	Avg. Wt./Bulb (g)
	Total	<50mm	50-57mm		
Pinky	4.50	0.91	3.62	6.00	36
Oswego	1.90	1.11	0.79	6.33	32
Helen #17	1.70	1.65	.	7.67	29
C-1	1.20	0.46	0.77	8.50	41
Columbia	1.20	0.91	0.33	7.67	31
Niagara	1.10	1.09	0.06	7.58	19
Cleo	0.96	0.96	.	8.25	16
Kiansky #28	0.87	0.87	.	6.67	12
Creston #80	0.49	0.49	.	9.66	16
G42	0.40	0.40	.	1.83	9
C-12	0.24	0.24	.	12.66	11
C-6	0.22	0.22	.	10.78	9

GARLIC CULTIVAR TRIAL

Sandy Loam Soil

Planted: Oct. 21-22, 1987
Harvested: July 22, 1988

Main Trial

Cultivar	Total	Yield t/ha*				No. of Cloves Bulb	Av. Wt./ Bulb (g)
		<50	50-57	57-63.5	63.5-77 mm		
Music	8.8 a	0.19	2.72	5.26	0.59	5.66	66
Bollibruk	8.5 ab	0.28	3.73	4.24	0.25	5.89	60
Zdriluk	7.5 abc	0.46	1.23	3.48	2.36	9.56	61
Dmetriuc	7.3 abc	0.42	1.88	3.85	1.16	8.89	55
Krawczyk	6.9 abcd	0.58	3.01	3.16	0.12	9.22	56
Krell	6.3 abcd	0.79	2.92	2.43	0.12	8.33	48
Kowaluk	5.9 abcd	0.84	2.92	1.85	0.25	7.89	49
Wally Scott	5.4 bcd	0.84	1.32	2.58	0.84	9.11	53
Fedenchuk	5.1 cd	0.53	0.64	2.56	1.39	8.89	48
Germidour SS	4.2 d	1.44	1.91	0.64	0.25	9.89	39

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

MAIN TRIAL

Seeded: 12 Feb.
 Transplanted: 5 May
 Harvested: 23 Aug. - 6 Sept.
 Spacing: 75 cm x 10 cm

JUMBO ONION CULTIVAR TRIAL 1988

Cultivar Source	Total Yield* t/ha	Graded Yield (t/ha)			Bulb** Shape	Av. Wt./ Bulb (g)	Av. Ring Thickness (mm)	Av. No. of Rings/ Bulb	Av. No. of Centres
		<77mm	77-90mm	90-110mm	>110mm				
The Kelsae	65.1 a	0.9	8.0	33.8	22.4	4	507	6.85	5.63
Bowers									1.33
Vega	62.9 a	0.7	6.6	35.5	20.1	3	485	4.28	8.08
Asgrow									2.00
Gringo	60.0 a	2.3	8.4	31.7	17.7	2	444	4.55	6.63
Stokes									2.33
Riverside Sweet Spanish	59.8 a	1.0	8.9	34.2	15.7	1	444	3.86	8.04
Stokes									2.54
Yellow Sweet Spanish	58.5 a	1.2	7.5	37.8	12.0	2	550	4.04	7.67
Harris Moran									2.42
Autumn Surprise	58.2 a	1.5	10.5	32.3	14.0	2	437	4.19	7.38
Crookham									2.33
Sweet Amber	57.5 a	1.3	8.7	35.1	12.5	1	431	4.28	8.00
Crookham									1.67
Big Mac	57.5 a	1.2	9.5	32.2	14.5	3	439	4.80	7.00
Crookham									1.88
Valiant	46.3 b	4.0	14.9	25.9	1.5	2	356	4.46	6.79
Stokes									1.33
Yula	43.1 b	2.9	11.1	21.6	7.5	7	339	5.21	5.83
Asgrow									1.83
Sweet Spanish	33.5 c	6.4	20.0	7.1	0.0	3	254	4.03	6.00
Stokes									1.46

For the main cultivar trial, a split plot experimental design was used to compare bare root vs. cell type transplanted Jumbo onions with respect to harvest yield and bulb characteristics.

Transplant type	Total Yield t/ha	Av. Wt./ Bulb(g)	Av. Ring Thickness(mm)	Av. No. of Rings/Bulb	Av. No. of Centres
15 ml cell	58.7 a	473 a	4.73 a	7.1 a	2.01 a
Bare Root	50.8 b	379 b	4.48 b	6.9 a	1.83 a

*Note Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter are not significantly different.

**For bulb shape refer to page 13.

OBSERVATION TRIAL

Seeded: 12 Feb.
 Transplanted: 5 May
 Harvested: 23 Aug. - 6 Sept.
 Spacing: 75 cm x 10 cm

JUMBO ONION CULTIVAR TRIAL 1988

Cultivar Source	Total Yield* t/ha	Graded Yield (t/ha)				Bulb Shape	Av. Wt./ Bulb (g)	Av. Ring Thickness (mm)	Av. No. of Rings/ Bulb	Av. No. of Centres
		<77mm	77-90mm	90-110mm	>110mm					
XPL 85N52 Crookham	80.4	0.7	0.4	22.4	56.9	7	612	4.38	8.33	2.50
HMX 2616 Harris Moran	59.0	2.5	10.8	22.6	23.2	2	458	4.42	6.67	2.33
Armada Asgrow	47.0	0.8	4.9	21.3	20.6	7	517	3.58	7.92	1.75
HMX 6616 Harris Moran	42.6	3.7	20.6	17.5	0.8	2	323	4.42	6.83	1.83
Titan Harris Moran	32.7	10.7	10.2	11.8	0	2	243	4.10	6.00	2.00

JUMBO ONION-SET CULTIVAR TRIAL 1988

Plant Date: 5 May
 Harvest Date: 30 August
 Spacing: 75 cm x 10 cm

Cultivar	% Plant Stand	Total Yield* t/ha	Graded Yield (t/ha)				Bulb Shape	Av. Wt./Bulb (g)	Av. Ring Thickness (mm)	Av. No. of Rings /Bulb	Av. No. of Centres
			<77mm	77-90mm	90-110mm	>110mm					
Sturbel	100	46.49 a	28.5	16.5	1.5	0	4.0	160.9	3.95	4.17	2.75
Downing Golden Globe	98	39.34 a	8.7	20.8	9.2	0.6	6.0	178.1	5.16	4.17	2.42
Silver Moon	86	36.53 a	17.9	14.3	4.4	0	6.0	123.5	5.16	3.67	3.25
Red Weatherfield	80	21.59 b	13.7	7.5	0.5	0	6.0	85.0	4.11	4.17	2.75

*Note: Duncans Multiple Range Test at .05 level.

Numbers followed by the same letter not significantly different.

Onion sets were supplied by a Thetford Marsh Grower.

YIELDS OF CUCUMBERS FROM ADVANCED MULTIPIK TRIAL, SIMCOE 1988

Cultivar	Source	t/ha	\$/ha
Triplemech	Peto	39.6	11196
Carolina	Asgrow	43.1	11059
Flurry	Asgrow	41.0	10823
Pik-Rite	Ferry Morse	37.5	10259
Earlipik 14	Northrup King	42.7	9927
Calypso	Asgrow	38.1	9889
Premier	Asgrow	37.0	9663
Pioneer	Peto	37.2	9361
Score	Asgrow	34.5	9277
PSX 51184	Peto	38.4	8834
Fancipak	Asgrow	38.0	8768

Soil Type: Berrien sandy loam
 Soil pH: 7.2
 Seeding Date: June 1
 Rows: 1.5 m
 Plants: 15 cm
 Plant Population: 44,444
 Fertilizer: 500 kg/ha 24-10-10
 Herbicide: Dyanap 15 L/ha
 Irrigation: June 29 (2.5 cm)
 Harvest Dates: July 21, 26, 29, Aug. 3, 8, 12

YIELDS OF CUCUMBERS FROM OBSERVATION MULTIPIK TRIAL, SIMCOE 1988

Cultivar	Source	t/ha	\$/ha
Sunre 3509	Sun	42.4	12002
Sunre 3515	Sun	40.7	11698
FMX 4639	Ferry Morse	40.8	11223
XPH 1589	Asgrow	42.9	10762
NUN 6180	Canners	45.5	10355
XPH 1608	Asgrow	39.7	9880
NVII 1906	Northrup King	34.8	9787
Pinnacle	Northrup King	38.2	9685
FMX 4638	Ferry Morse	31.8	9463
Sunre 816	Sun	33.7	8350
NVII 1911	Northrup King	21.9	6951

Soil Type: Berrien sandy loam
Soil pH: 7.2
Seeding Date: June 1
Rows: 1.5 m
Plants: 15 cm
Plant Population: 44,444
Fertilizer: 500 kg/ha 24-10-10
Herbicide: Dyanap 15 L/ha
Irrigation: June 29 (2.5 cm)
Harvest Dates: July 21, 26, 29, Aug. 3, 8, 12

YIELDS OF CUCUMBERS FROM ONCE OVER MACHINE HARVEST CULTIVAR TRIAL - SIMCOE, 1988

Cultivar	Source	t/ha	\$/ha
Sunex 877	Sun	23.3	5056
Sunre 3502	Sun	26.0	4357
NVH 1914	Northrup King	23.5	4097
XPH 1550	Asgrow	22.7	3695
Regal	Harris Moran	22.8	3601
Brooks	Sun	21.0	3423
Express	Musser	21.5	3321
Royal	Harris Moran	17.6	3293
Cross Country	Ferry Morse	17.3	3288
Primepak	Asgrow	15.2	3275
Flurry	Asgrow	21.2	3264
Calypso	Asgrow	17.7	3236
PSX 50585	Peto	17.0	3207
Delta	Sun	20.8	3134
Cascade	Sun	19.4	2841
Brine Time	Ferry Morse	11.9	2408

Soil Type:	Berrien sandy loam
Soil pH:	7.2
Seeding Date:	June 1
Rows:	60 cm
Plants:	10 cm
Plant Population:	166,667
Fertilizer:	500 kg/ha 24-10-10
Herbicide:	Dyanap 15 L/ha
Irrigation:	June 29 (2.5 cm)
Harvest Date:	July 25

PEPPER CULTIVAR TRIALS (ADVANCED), SIMCOE, 1988

Cultivar	Source	Marketable Yields		Fruit		Wall Thickness (mm)	Length/Diameter	No. of Lobes	Non-Mkt. Yield (t/ha)	Plant Size and Type
		Early* (t/ha)	Total (t/ha)	No./Plant	Fruit Wt. (g)					
Lady Belle	Harris Moran	9.6	33.4	7.9	190	6.8	1.2	3.3	1.9	medium, normal
Belle Star	Ferry Morse	8.1	27.9	5.7	212	8.2	1.1	3.7	1.4	large, normal
Gedeon	Northrup King	6.9	27.9	5.0	251	7.3	1.6	3.2	1.2	tall-large, open
Bell Captain	Peto	6.6	26.0	3.7	297	8.7	1.9	3.3	3.9	large, normal
Four Corners	Ferry Morse	7.9	25.3	5.8	195	8.6	1.0	3.3	1.6	medium, normal
Bell Tower	Northrup King	9.2	22.4	4.1	225	6.4	1.4	3.8	0.8	medium, normal
Bell Boy	Dominion	6.6	20.8	4.6	192	6.7	1.1	3.5	1.4	small-medium, normal
Big Belle	Ferry Morse	6.7	20.1	4.9	174	7.2	1.2	3.7	2.1	medium, normal
Jupiter	Northrup King	10.1	19.4	3.3	256	7.3	1.1	3.8	1.5	small-medium, compact
Midway	Harris-Moran	5.7	14.2	3.6	186	7.3	1.3	3.5	1.0	medium-large, open

*Yield to Aug. 23

Seeded: April 11
 Transplanted: April 26
 Planted in Field: May 27
 Plant Population: 22,222 plants/ha (1.0 m x 0.45 m)
 Fertilizer: 500 kg/ha 10-10-10
 Herbicide: Treflan at 1.5 L/ha
 Harvested: Aug. 23 - Oct. 4.

PEPPER CULTIVAR TRIAL I (OBSERVATION), SIMCOE, 1988

Cultivar	Source	Marketable Yields		Fruit		Wall Thickness (mm)	Length/Diameter	No. of Lobes	Non-Mkt. Yield (t/ha)	Plant size and type
		Early* (t/ha)	Total (t/ha)	No./Plant	Fruit Wt. (g)					
Domino	Asgrow	13.4	30.7	6.1	212	6.5	1.8	3.7	2.2	medium, normal
Hybelle	Harris-Moran	8.9	27.9	5.0	189	8.2	1.1	2.7	1.2	small-medium, open
Plutona	Deruiter	6.5	24.9	5.5	188	8.1	1.1	3.3	0.4	medium, compact
AC 850**	Abbott & Cobb	6.7	22.4	4.1	228	5.8	1.1	3.7	0.5	medium-large, normal
Mission Belle	Ferry Morse	9.5	22.0	5.2	208	7.2	1.2	2.8	1.5	medium, normal
Green Boy	Agway	7.7	22.0	5.1	189	5.5	1.5	3.2	1.8	medium, normal
BUX 571	Burpee	3.6	21.2	4.8	189	6.0	1.3	3.0	0.4	small, open
AC 820**	Abbott & Cobb	8.5	20.8	4.8	144	7.0	1.0	3.5	0.3	medium-large, normal
Crispy	Burpee	4.9	19.8	4.4	147	7.7	1.2	3.8	1.0	medium, open
Ringer	Johnny's	9.8	19.7	4.0	167	6.7	1.2	3.5	2.3	medium, normal
Midway	Harris-Moran	9.9	19.4	4.3	196	7.2	1.1	3.5	0.1	tall-large, open
HMX 5662	Harris-Moran	7.0	19.2	4.3	195	6.9	1.4	3.2	1.5	medium, normal
Whopper Improved	Park	10.9	18.8	3.8	214	8.8	1.1	3.5	1.3	medium, normal
Galaxy	Northrup King	3.6	18.6	3.1	266	7.7	1.5	3.7	1.5	large, normal
Sweet Belle	Ferry Morse	6.5	18.3	4.0	207	7.4	1.3	3.8	0.2	medium, normal
Latino	Bruinsma	6.3	18.3	3.6	200	7.2	1.3	4.5	1.6	large, normal
Duplo	Bruinsma	13.9	18.1	4.2	153	6.4	1.2	3.7	1.4	medium, normal
Valley Giant	Northrup King	4.0	18.1	3.7	207	7.6	1.1	4.3	1.4	small-medium, normal
Liberty Bell	Abbott & Cobb	13.9	18.1	4.2	153	6.4	1.2	3.7	1.4	medium, normal
BUX 7095	Burpee	10.4	17.1	4.3	143	6.0	1.1	4.0	1.2	medium, normal
Cadice	Agway	9.9	16.8	3.7	206	6.4	1.1	3.0	2.1	medium, normal
FMX 988	Ferry Morse	9.2	16.8	4.2	182	7.8	1.1	3.5	0.8	small-medium, open
MA 79259	Royal Sluis	2.8	14.5	2.9	213	6.2	1.4	3.7	0.8	medium, compact
85-2034	Nickerson-Zwaan	5.6	13.1	3.8	174	7.9	1.2	3.5	0.9	medium, normal
Olympic**	Asgrow	8.6	12.3	2.9	220	6.2	1.1	3.8	0.5	small, open

*Yield to Aug. 23. **Fruit color green to orange.

Seeded: April 11
 Transplanted: April 26
 Planted in Field: May 27
 Plant Population: 22,222 plants/ha (1.0 m x 0.45 m)
 Fertilizer: 500 kg/ha 10-10-10
 Herbicide: Treflan at 1.5 L/ha
 Harvested: Aug. 23 - Oct. 4

PEPPER CULTIVAR TRIAL II (OBSERVATION), SIMCOE 1988

Cultivar	Source	Marketable Yields		Fruit		Length/ Diameter	No. of Lobes	Non- Mkt. Yield (t/ha)	Plant size and type
		Early*	Total (t/ha)	No./ Plant	Fruit Wt. (g)				
Hungarian Wax	Harris-Moran	6.0	34.1	37.2	40	-	-	0.5	large, open
NVH 3053	Northrup King	8.0	27.6	5.5	218	7.5	1.1	3.8	0.7
Calumet	Royal Sluis	4.4	26.3	5.1	224	5.7	1.7	3.7	1.8
Melody	Asgrow	7.0	24.2	4.7	219	5.5	2.1	3.5	1.4
Lucia	Nickerson-Zwaan	5.4	22.4	4.5	156	7.0	1.2	3.7	0.9
Evident	Deruiter	6.3	20.8	4.0	223	7.3	1.1	3.2	0.7
85-2005	Nickerson-Zwaan	6.6	20.7	4.1	213	7.2	1.3	4.0	1.8
PSX 57585	Peto	6.6	20.6	17.4	52	-	-	-	2.3
Volcano	Ferry Morse	5.0	20.1	15.9	57	-	-	-	0.7
85-2080	Nickerson-Zwaan	9.4	19.6	4.0	208	6.4	1.3	3.2	1.3
Mayata	Royal Sluis	3.7	19.5	2.9	268	6.7	1.7	3.5	0.4
Memphis	Northrup King	6.7	19.3	3.8	211	7.3	1.3	3.5	0.5
P-1796	Northrup King	4.9	19.1	3.8	221	6.5	1.0	3.0	1.3
Honeybelle**	Harris-Moran	5.5	18.8	4.0	194	6.2	1.7	3.2	1.5
Sweet Banana	Harris-Moran	2.4	18.4	17.8	37	-	-	-	1.1
California Wonder	Dominion	2.8	17.2	3.8	146	8.1	1.1	3.5	0.2
Skipper	Asgrow	7.5	16.8	3.7	156	7.4	1.2	4.2	0.4
Wonder Bell	Takii	1.7	16.3	4.1	172	6.7	1.2	3.7	0.1
PSX 56685	Peto	5.8	16.2	11.7	47	-	-	-	1.5
Lipstick	Johnny's	4.0	15.0	7.5	88	5.9	1.9	3.2	0.6
Prima Belle	Sun Seeds	1.7	12.3	2.4	170	7.9	1.1	3.7	0.7
PSX 53485	Peto	3.4	11.7	42.8	13	-	-	-	0.4
Sweet Cherry	Peto	1.7	9.8	36.4	17	-	-	-	0.3
Cherry Sweet	Harris-Moran	1.6	20.1	15.9	57	-	-	-	0.7
Rumainian Wax	Harris-Moran	3.9	18.4	17.8	37	-	-	-	1.6

*Yield to Aug. 23.

**Fruit color green to orange.

Seeded: April 11
 Transplanted: April 26
 Planted in Field: May 27
 Plant Population: 22,222 (1.0 m x 0.45 m)
 Fertilizer: 500 kg/ha 10-10-10
 Herbicide: Treflan at 1.5 L/ha
 Harvested: Aug. 23 - Oct. 4

MUSKMELON CULTIVAR (OBSERVATION TRIAL, SIMCOE, 1988)

Cultivar	Source	Marketable Yield		Non-Marketable Yield (t/ha)	Fruit No./ Plant	Fruit Wt. (kg)
		Early* (t/ha)	Total (t/ha)			
Super Star	Harris Moran	24.1	58.0	0.1	8.7	2.4
HMX 6593	Harris Moran	28.1	58.0	1.1	11.4	1.9
Pulsar	Stokes	22.2	57.1	2.0	11.4	1.9
Sunre 7008	Sun Seeds	17.4	53.5	1.0	10.7	1.8
HXP 3593	Harris Moran	27.3	51.0	0.0	10.3	1.8
Sunshine	Ferry Morse	21.0	48.7	1.1	14.7	1.3
Performer	Abbott & Cobb	14.6	46.0	1.5	15.4	1.2
Delicious 51	Harris Moran	28.8	45.3	5.2	14.7	1.4
Nova	Northrup King	19.9	45.2	0.0	10.7	1.5
Canada Gem	Stokes	27.6	44.9	2.3	10.0	1.7
Rising Star	Harris Moran	18.8	44.8	3.5	9.3	2.0
Summet	Asgrow	18.7	44.7	4.0	11.6	1.6
Saticoy	Peto	17.7	44.4	0.5	9.6	1.7
Gold Star	Harris Moran	24.6	42.6	2.8	10.9	1.6
Early Dawn	Harris Moran	30.2	41.2	1.2	10.7	1.5
Rocky Sweet	Johnny's	13.7	40.5	1.9	9.1	1.8
Eastern Star	Musser	25.5	40.1	1.2	6.4	2.5
Patrician	Ferry Morse	12.8	37.9	0.8	11.9	1.2
Sunex 7016	Sun Seeds	17.4	37.4	0.9	11.0	1.3
Dumelon	Perron	13.4	36.2	2.9	10.9	1.4
Earligold	Johnny's	18.6	34.9	1.8	9.1	1.5
Flyer	Johnny's	15.1	33.1	2.5	16.1	1.0
Aurora	Asgrow	7.4	29.3	0.0	7.4	1.4
Far North	Dominion	3.5	13.7	1.8	8.9	0.7

*Yield to Aug. 9

Seeded: April 29

Planted in Field: May 20

Plants/ha: 5556 (1.8 x 1.0 m)

Fertilizer: 500 kg/ha 24-10-10

Harvested: July 28 - Sept. 14

MUSKMELON CULTIVAR (OBSERVATION TRIAL, SIMCOE 1988)

Cultivar	Source	Melon Appearance			Vine Vigor (1-5)*	Powder Mildew Rating**	Seed Cavity Size***	Flavour Rating****
		Grooves	Coverage	Netting Thickness				
Super Star	Harris Moran	Deep	Med.-Course	Med.-Thick	Round	3.5	S	L 3
HMX 6593	Harris Moran	Medium	Coarse	Med.-Thick	Round	2.3	N	L 2
Pulsar	Stokes	Medium	Medium	Medium	Round	2.5	M-S	L 3
Sunex 7008	Sun Seeds	Medium	Coarse	Med.-Thick	Round	1.0	N	M 2
HXP 3593	Harris Moran	Medium	Coarse	Thick	Round	2.0	T	L 2
Sunshine	Ferry Morse	Fine	Fine	Medium	Round-Oval	1.8	N	S 4
Performer	Abbott & Cobb	Fine	Medium	Thick	Round	1.8	N	S 2
Delicious 51	Harris Moran	Medium	Medium	Medium	Round	3.8	S	M 1
Nova	Northrup King	Medium	Medium	Medium	Round	2.3	T-M	M 3
Canada Gem	Stokes	Medium	Coarse	Thick	Round	2.8	S	M 2
Rising Star	Harris Moran	Medium	Coarse	Med.-Thick	Round	3.0	S	M 2
Summet	Asgrow	Medium	Medium	Medium	Round	1.5	N	S 2
Saticoy	Peto	Fine	Med.-Coarse	Medium	Round-Oval	2.5	M	S 3
HMX 4599	Harris Moran	Fine	Coarse	Thick	Round	1.8	N	S 4
Gold Star	Harris Moran	Deep	Coarse	Thick	Round	3.3	S	L 3
Early Dawn	Northrup King	Medium	Medium	Medium	Round-Oval	2.8	S	M 3
Rocky Sweet*****	Johnny's	Fine	Coarse	Fine	Round	3.3	N	M 2
Eastern Star	Musser	Fine	Medium	Fine	Round	3.0	S	M 3
Patrician	Ferry Morse	Fine	Medium	Fine	Round	3.5	S	S 2
Sunex 7016	Sun Seeds	Fine	Medium	Medium	Round	2.5	M	M-L 3
Dumelon	Perron	Fine	Coarse	Medium	Round	1.8	N	M 1
Earligold	Johnny's	Fine	Fine	Medium	Round	2.5	S	S 2
Flyer	Johnny's	Medium	Medium	Fine	Round	4.3	S	S 3
Aurora	Asgrow	Fine	Fine-Med.	Medium	Oval	1.5	M	S 2
Far North	Dominion	Fine	Coarse	Fine-Med.	Round	4.3	S	L 4

*1=extremely vigorous, 5=no vigor; **T=trace, M=moderate, S=severe; N=None; ***S=small; M=medium; L=large;

****1=excellent flavour; 2=sweet or very sweet; 3=bland or flat; 4=off flavour (undesirable);

*****Western type (green flesh).

SUMMER SQUASH (ZUCCHINI) CULTIVAR TRIAL, SIMCOE 1988

Cultivar	Source	Marketable Yield		Fruit	Fruit	Fruit
		Early* (t/ha)	Total (t/ha)	No./ Plant	Wt. (kg)	Color
Consul	Asgrow	7.8	42.4	10.7	0.40	Dark green
Corsair	Asgrow	4.2	35.3	9.1	0.39	Dark green
Milano	Agway	8.2	34.9	9.0	0.39	Grey speckled
Elite	Harris-Moran	8.1	33.4	10.7	0.31	Grey speckled
Onyx	Ferry Morse	5.3	32.4	8.5	0.38	Dark green
Seneca Prolific	Stokes	5.9	31.2	8.0	0.31	Yellow
Accesta	Royal Sluis	4.1	30.2	8.0	0.38	Grey speckled
Calista	Royal Sluis	3.8	28.9	7.0	0.41	Medium green
HMX 5702	Harris-Moran	8.1	27.5	9.0	0.31	Grey green
Tastetini	Abbott & Cobb	5.8	26.2	7.5	0.35	Grey speckled
Super Select	Stokes	4.8	26.0	8.7	0.30	Grey green
Green Magic	Musser	5.1	25.0	9.0	0.39	Dark green
Napolini	Harris-Moran	4.0	23.7	5.9	0.40	Dark green
Smoothee	Abbott & Cobb	6.4	22.0	8.6	0.26	Yellow
HMX 5703	Harris-Moran	4.1	21.7	7.8	0.28	Grey green
Park 5302	Park	3.7	21.2	6.6	0.32	Dark green
Zucchini	Dominion	2.3	20.5	5.4	0.38	Medium green

*Yield to June 30

Seeded: April 29
 Planted in Field: May 18
 Plants/ha: 10,000 (1.0 m x 1.0 m)
 Fertilizer: 50 kg/ha 24-10-10
 Harvested: June 23-July 18

Table

POTATO CULTIVAR EVALUATION FOR EARLY HARVEST - 1988

Cultivar	Date	Days to 50% Emergence	Yield (t/ha)		
			Marketable (49+ mm)	Non-Marketable (< 45 mm)	Total
Superior	July 4	33.8	2.9	3.6	6.5
	July 11		3.4	3.4	6.8
	July 18		5.2	3.5	8.7
	July 25		6.9	4.4	11.3
Jemseg	July 4	36.0	6.3	4.6	10.9
	July 11		8.1	4.0	12.1
	July 18		10.3	3.7	14.0
	July 25		11.4	3.4	14.8
Atlantic	July 4	33.8	2.5	7.6	10.1
	July 11		7.5	5.0	12.5
	July 18		8.7	5.0	13.7
	July 25		14.6	3.4	18.0
Conestoga	July 4	35.5	4.1	4.4	8.5
	July 11		6.8	3.6	10.4
	July 18		9.2	3.7	12.9
	July 25		11.1	3.5	14.6
Yukon Gold	July 4	40.5	1.2	5.9	7.1
	July 11		3.2	6.6	9.8
	July 18		5.6	4.5	10.1
	July 25		12.2	3.9	16.1
Eramosa	July 4	39.3	3.8	4.5	8.3
	July 11		6.0	4.6	10.6
	July 18		7.2	4.1	11.3
	July 25		6.6	3.7	10.3
Red Gold	July 4	34.3	1.3	9.0	10.3
	July 11		2.7	11.6	14.3
	July 18		4.4	10.6	15.0
	July 25		6.8	10.4	17.2
Campbell 13	July 4	34.3	7.7	3.1	10.8
	July 11		5.7	3.3	9.0
	July 18		9.8	3.0	12.8
	July 25		13.0	2.3	15.3
Belmont	July 4	35.5	1.3	4.2	5.5
	July 11		3.9	4.8	8.7
	July 18		4.0	4.4	8.4
	July 25		8.8	3.7	12.5
LSD 5%	Between cultivars	2.0	2.4	1.6	2.4
	Between harvests		1.6	0.5	1.5
	Harvests between cultivars		9.7	0.8	9.4

Soil Type:

Caledon sandy loam

Soil Rating:

P₂O₅ - 64, K₂ - 198, pH - 6.7, Mg - 107

Fertilizer Applied:

45 kg/ha N preplant 45 kg/ha N as a sidedress

30 kg/ha P₂O₅ preplant

Planted:

April 13. Seed cut March 31, held at 4°C, moved to 10°C April 8.

Days from Planting to Harvest:

82, 89, 96, 103

Herbicide:

Metolachlor 1.92 kg ai/ha preplant incorporated.

Metribuzin 0.5 kg ai/ha preemergence after final hilling May 11.

Table

MAIN CROP POTATO CULTIVAR TRIAL - 1988

Cultivar	Days to 50% Emergence	Yield (t/ha)		
		Marketable (56+ mm)	Non-Marketable* (< 56 mm)	Total
Yukon Gold	25.0	8.4	11.5	19.9
Norchip	24.5	14.4	16.8	31.2
Shepody	24.5	11.8	16.4	28.2
Kennebec	21.0	13.4	22.8	36.2
Saginaw Gold	24.8	7.6	11.4	19.0
Rose Gold	23.5	12.4	15.7	28.1
F73008	24.8	13.7	23.9	37.6
Red Gold	23.5	14.7	15.9	30.6
Atlantic	22.3	9.4	11.8	21.2
Superior	19.3	5.1	7.8	12.9
Yankee Chipper	23.8	17.5	19.1	36.6
Purple Chief	22.8	0.0**	20.2	20.2
9094-2	23.3	3.8	9.5	13.3
G742-4y	24.3	7.6	8.9	16.5
G8136-8	22.3	5.6	6.4	12.0
G700-10	27.0	8.2	9.6	17.8
F81052	26.5	6.4	9.4	15.8
F80035	25.5	8.9	11.9	20.8
F80005	22.3	5.7	10.1	15.8
G654-2	24.5	12.1	13.7	25.8
F70021	23.8	7.8	9.9	17.7
F81233	23.3	7.3	10.3	17.6
A69868-2	19.5	15.4	17.5	32.9
W848	22.5	10.3	12.6	22.9
LSD 5%	2.1	2.6	3.5	4.8

Soil Type: Caledon sandy loam

Soil Rating: P=64, K=198, pH=6.17, Mg=107

Fertilizer Applied: 45 kg/ha N preplant, 45 kg/ha N as a sidedress
30 kg/ha P₂O₅ preplant

Planted: May 6

Harvest: September 10

Top Kill: August 19, Reglone 4 L/ha

Herbicide: Metolachlor 1.92 kg ai/ha preplant incorporated.
Metribuzin 0.5 kg ai/ha preemergence after final hilling

*Includes off shapes.

**All tubers were rotted due to secondary growth prior to harvest.

**POTATO CULTIVAR EVALUATIONS: TUBER DESCRIPTION AND PROBABLE END USE
OF LICENSED CULTIVARS AND PROMISING NUMBERED LINES**

Cultivar	Colour		Shape ^X	Probable End Use ^W					Season ^u
	Skin ^Z	Fleshy		Boil	Bake	Chip	French Fry		
Yukon Gold	Y	Y	RO	X	X	X	X		E-Md
Norchip	W	W	RO	X	X	X	X		Mc
Shepody	W	W	L	X	X	-	X		Mc
Kennebec	W	W	RO	X	X	X	X		Mc
Saginaw Gold	Y	Y	RO	X	X	X	X		Mc
Rose Gold	R	Y	RO	X	X	-	-		Md
F73008	C	PY	O	X	X	-	-		L
Red Gold	R	Y	R	X	X	-	-		E
Atlantic	W	W	O	X	X	X	*		Md-Mc
Superior	W	W	RO	X	X	X	X		E
Yankee Chipper	W	W	R	-	-	X	-		Md-Mc
Purple Chief	P	W	L	X	X	-	-		L
9094-2	W	W	R	X	X	-	-		Md
G742-4y	W	Y	R	X	X	-	-		Md
G8136-8	W	W	R	-	-	X	-		Mc
G700-10	R	W	L	X	X	-	-		Mc
F81052	R	W	L	X	X	-	-		Mc
F80035	R	W	L	X	X	-	-		Mc
F80005	C	Y	R-O	X	X	X	-		Mc
G654-2	W	W	R	X	X	-	-		Md
F70021	W	W	RO	X	X	-	-		E
F81233	C	W	R-O	X	X	X	-		Mc
A69868-2	R	W	L	X	X	-	X		L
W848	W	W	O-L	-	-	X	-		L

^Z W-white, CY-creamy yellow, Y-yellow, P-purple, RS-Russet, R-red, C-cream

^Y W-white, PY-pale yellow, Y-yellow

^X RO-round-oval, L-long, O-oval, OL-oblong, R-round

^W Chip or fry * from field only - not recommended, X can be used for purpose indicated

Note: Fries made from R, RO tubers will be short

^u Season VE-very early, E-early, Md-midseason, Mc-main crop, L-late, VL-very late

Standards: Chips - Norchip; Bake, Fry - Russet Burbank

Table .

MAIN CROP SWEET POTATO TRIAL - 1988

Cultivar	Harvest	Yield (t/ha)					
		Culls (Size) < 30 mm	Canners 31-50 mm	Table 1 51-70 mm	Table 2 71-90 mm	Jumbo 90+ mm	*Culls (Other)
Georgia Jet	August 22	2.6	5.5	3.6	0.6	0.0	0.0
	September 12	2.9	8.2	7.7	3.4	0.3	0.3
	October 3	2.3	7.6	6.5	4.1	0.8	0.8
Cordner	August 22	2.3	3.1	1.0	0.0	0.0	0.0
	September 12	3.2	6.2	5.9	0.4	0.0	0.0
	October 3	3.2	6.4	5.6	2.4	0.2	0.2
Jewel	August 22	2.6	2.9	0.6	0.0	0.0	0.0
	September 12	2.9	6.6	5.1	0.4	0.0	0.0
	October 3	2.7	5.2	3.4	0.9	0.0	0.0
Resisto	August 22	2.4	3.5	0.9	0.0	0.0	0.0
	September 12	4.1	6.7	3.5	0.3	0.0	0.0
	October 3	3.4	7.7	6.9	2.2	0.2	0.0
Southern Delite	August 22	2.7	2.9	0.5	0.0	0.0	0.0
	September 12	5.9	6.3	3.4	0.6	0.0	0.0
	October 3	4.7	6.0	4.8	2.3	0.0	0.0
LSD 5%	To compare cultivars	0.9	1.1	1.0	0.9	0.2	0.2
	To compare harvests	0.5	0.8	0.7	0.6	0.2	0.2
	Harvests within cultivars	0.2	1.1	0.5	0.05	0.004	0.004

Soil Type: Caledon sandy loam

Soil Rating: P=82, K=181, pH=6.6, Mg=94

Fertilizer: 45 kg/ha N preplant incorporated.

Herbicide: Enide 50 WP 10 kg ai/ha June 24 broadcast

Tubers Bedded: April 29, Planted - June 1

*Splits, Diseased, Shape

Table

OBSERVATION SWEET POTATO TRIAL - 1988

Cultivar	Yield (t/ha)					
	Culls (Size) < 30 mm	Canners 31-50 mm	Table 1 51-70 mm	Table 2 71-90 mm	Jumbo 90+ mm	*Culls (Other)
Regal	4.8	5.7	4.1	1.5	0.0	4.3
Topaz	3.3	6.5	7.4	1.9	0.4	3.2
White Joy	3.9	7.6	6.0	1.0	0.0	3.4
White Delite	7.3	10.4	3.9	0.4	0.0	4.3
LSD 5%	To compare cultivars	1.9	1.7	4.0	1.2	0.3
0.3						

Soil Type: Caledon sandy loam

Soil Rating: P=82, K=181, pH=6.6, Mg=94

Fertilizer: 45 kg/ha N preplant incorporated.

Herbicide: Enide 50 WP 10 kg ai/ha June 24 broadcast

Tubers Bedded: April 29, planted - June 1

*Culls Other - splits, diseased, shape

1988 ADVANCED COORDINATED FRESH MARKET TOMATO TRIAL

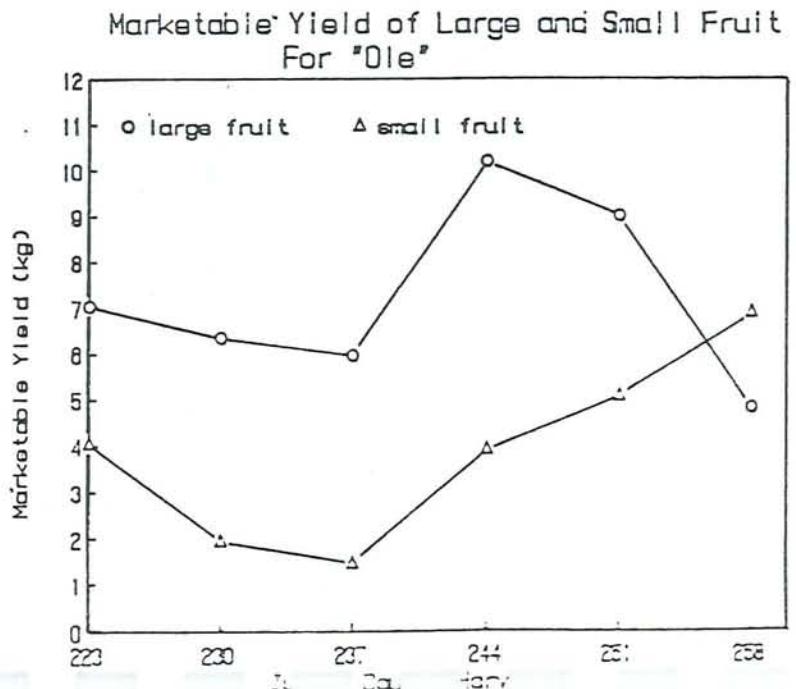
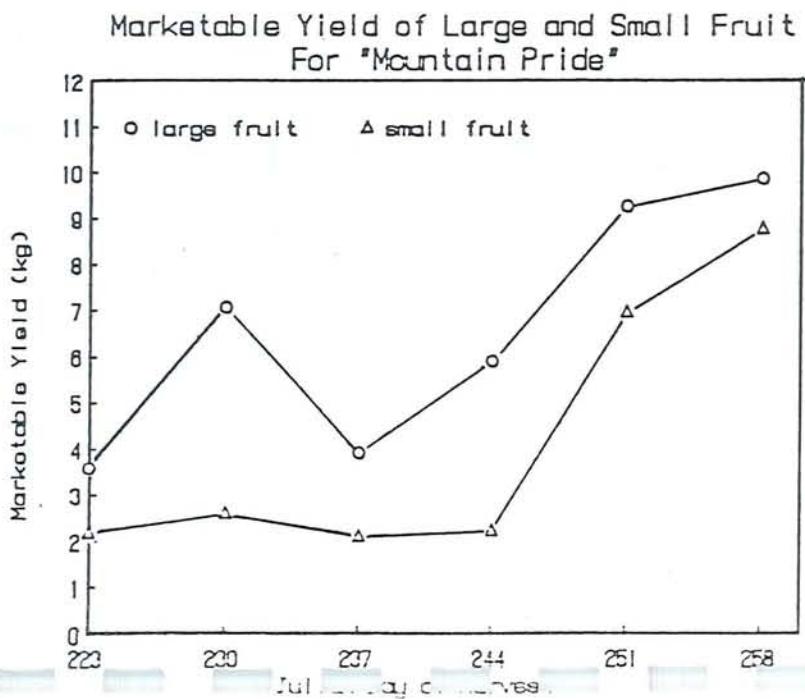
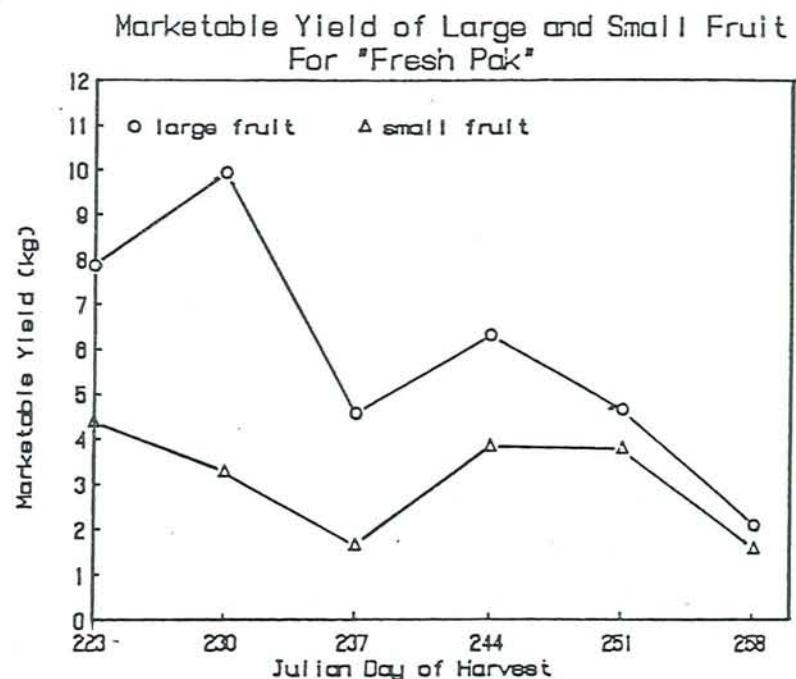
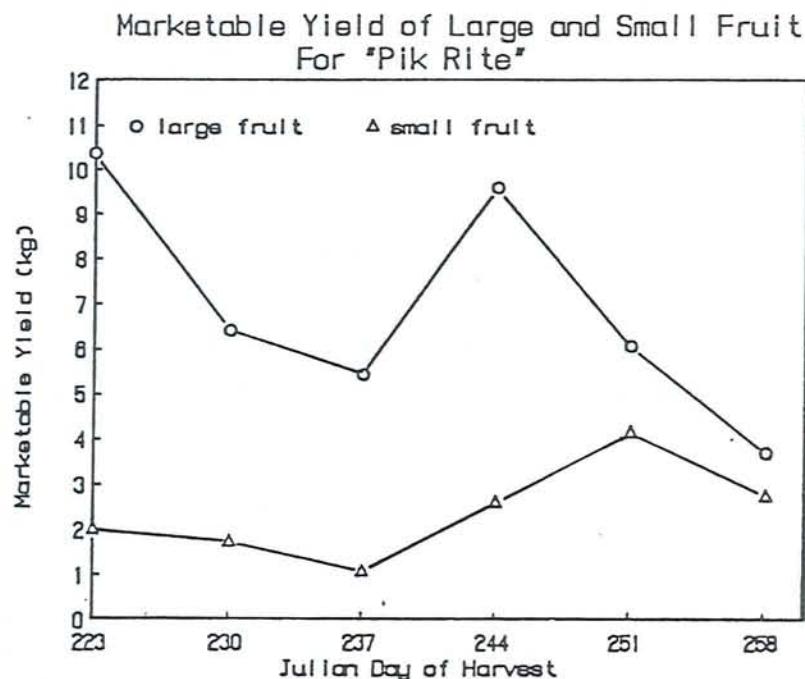
Cultivar	Seed Source	Farliness August	Vine Spread (1-5)	Cracking (1-5)	Yellow Top (1-5)	Appearance (1-5)	Firmness (1-5)	Blossom Scar (1-5)	Stem Scar (1-5)	Blotch (1-5)	Flesh (1-5)	Int. Color (1-5)	Fruit < 65mm Diam. (t/ha)	Fruit > 65mm Diam. (t/ha)	Culls (t/ha)	Comments
(avg. 4 reps)																
Carmen	4	5.25	2.6	2.9	2.6	2.8	2.4	2.8	2.4	2.8	3.1	2.8	11.43	35.21	4.54	-concentric cracks
Fresh Pak	3	5.50	3.0	2.0	2.5	2.3	2.3	2.3	2.3	2.5	3.4	2.9	16.42	31.57	3.60	-radial cracks
Pik Rite	3	6.50	2.8	2.5	3.0	2.5	2.9	2.5	2.4	3.1	3.5	3.3	12.68	37.04	2.57	-lacks foliage
Ole	3	6.75	3.0	3.2	2.9	3.1	3.4	2.4	2.6	3.0	3.4	2.8	20.78	38.68	3.30	-good foliage cover
Pik Red	3	6.75	2.5	2.1	2.5	2.9	2.4	2.5	2.5	2.6	3.5	2.9	13.96	33.16	2.57	-radial & Concentric cracks
Celebrity	1	9.00	3.4	2.1	3.1	3.4	2.1	2.9	2.6	2.8	3.3	2.9	12.11	35.15	3.58	-concentric cracks
Mountain Pride	2	10.25	4.0	4.0	4.5	3.9	3.4	3.0	3.6	3.6	3.4	3.0	22.04	35.28	1.46	-good foliage retention

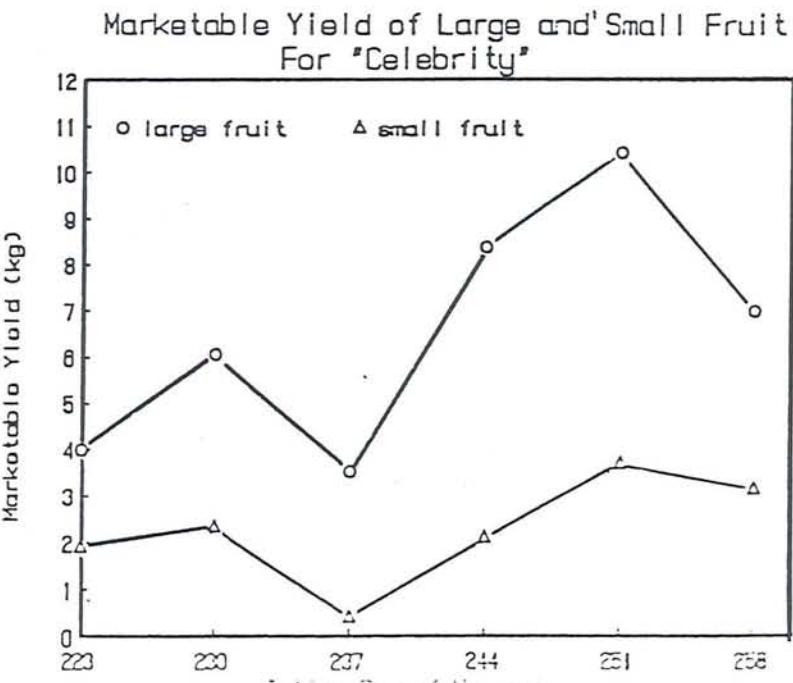
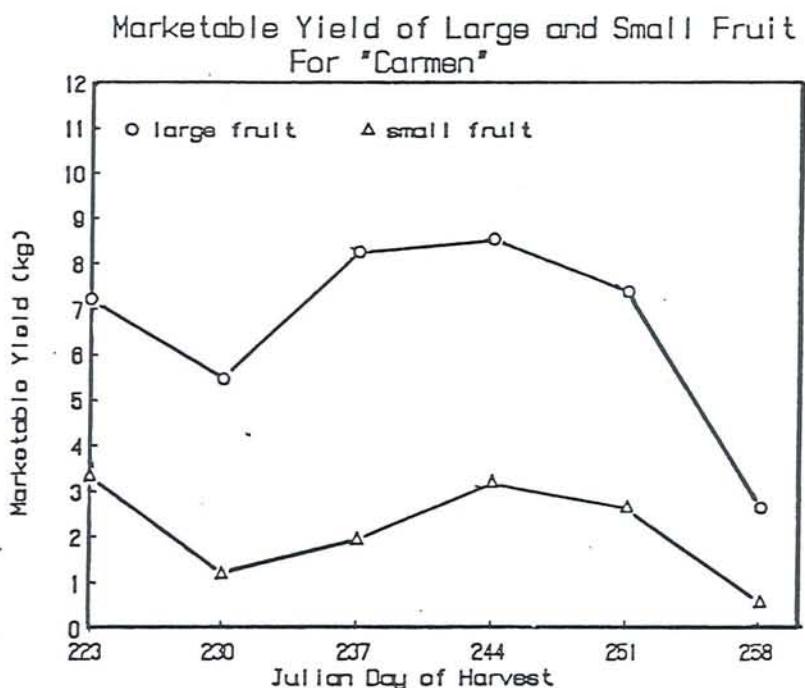
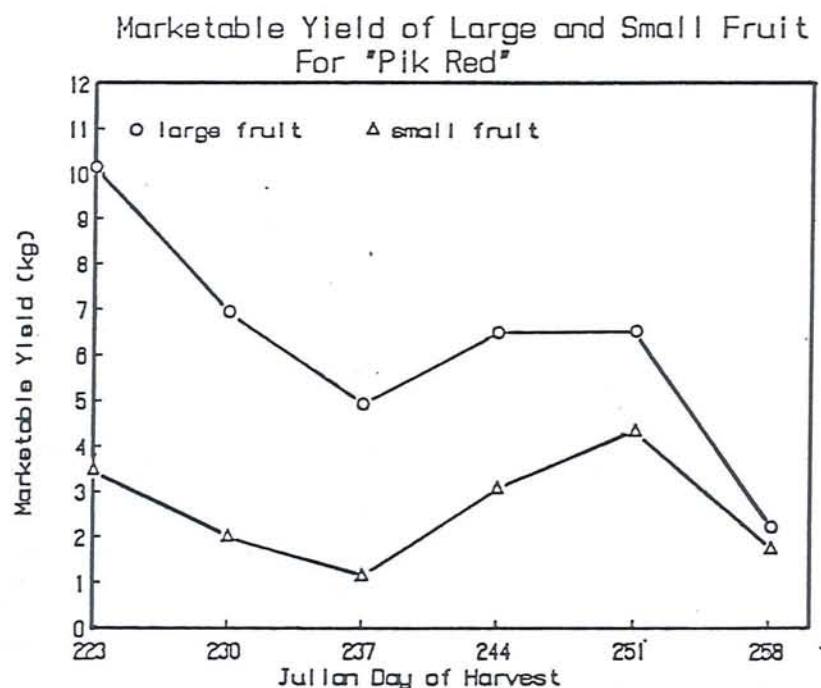
1) Abbott & Cott Seeds Inc., Box 307, Feasterville, PA, USA 19047

2) Asgrow Seed Co., Res. Dept., The Upjohn Co., Kalamazoo, MI, USA, 49001

3) Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY, USA, 14624

4) Peto Seed Co. Inc., Box 4206, Saticoy, CA, USA, 93003





1988 FRESH MARKET STORAGE TEST #1

Ten fruits were harvested on August 24, at mature green stage. Bags were placed in a cooler at 4°C for seven days, taken out and left at room temperature for five days. Fruits were evaluated for external qualities. Three fruits from each variety were sliced at both 1/8" and 1/4". Number of slices and slice diameter are an average of three fruits.

Cultivar	Firmness (1-5)	Appearance (1-5)	No. Fruit Not Ripened	Blotchy Ripening (1-5)	Cracking (1-5)	Fruit Breakdown	Slice Thickness 1/8"				Slice Thickness 1/4"			
							Number of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)	No. of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)
Fresh Pak	3.0	2.1	3.5	2.1	2.1	0.8	14.3	3.3	2.5	2.75	8.4	3.5	3.1	2.75
Pik Red	3.0	2.5	0.8	2.4	3.5	0.8	14.4	3.5	2.8	2.75	9.0	4.0	3.5	2.75
Celebrity	3.1	3.0	0.8	3.0	3.8	0.5	13.2	3.1	1.6	2.75	7.8	2.6	2.3	2.75
Carmen	2.9	2.5	1.8	2.1	3.3	0.8	13.0	3.1	2.8	2.75	7.7	3.4	3.0	2.50
Mountain Pride	4.1	4.5	0.3	4.4	4.9	0.5	13.4	3.1	2.3	2.50	7.9	3.5	3.0	2.75
Pik Rite	3.1	2.6	2.8	2.8	4.0	1.0	13.8	3.5	2.9	2.75	8.5	3.5	2.6	2.75
Ole	3.6	3.0	1.0	3.0	3.8	1.0	13.1	3.8	3.1	2.75	8.9	3.8	3.3	2.75

1988 FRESH MARKET STORAGE TEST #2

Ten fruits were harvested August 31. Bags were left out at room temperature for seven days.
 Ratings were given on external qualities.

Cultivar	Firmness (1-5)	Appearance (1-5)	No. of Fruits Not Ripened	Blotchy Ripening (1-5)	Cracking (1-5)	No. of Fruit Breakdown
Fresh Pak	2.3	2.3	0.0	2.5	2.0	3.3
Pik Red	2.4	2.9	0.0	3.0	2.5	1.8
Celebrity	2.1	3.4	0.0	3.6	3.5	2.3
Carmen	2.4	2.8	0.0	3.1	2.8	2.5
Mountain Pride	3.4	3.9	0.3	4.6	3.9	1.3
Pik Rite	2.9	2.5	0.0	3.0	2.6	1.8
Ole	3.4	3.1	0.0	3.6	3.5	1.8

1988 COORDINATED PRIMARY FRESH MARKET TRIAL

Cultivar	Seed Source	Maturity Date	Average Fruit Size (g)	Vine Spread (1-5)	Firmness (1-5)	Crack Resistance (1-5)	Yellow Top (1-5)	Smoothness (1-5)	Blossom Scar (1-5)	Stem Scar (1-5)	Blotch (1-5)	Flesh (1-5)	Slice Thickness 1/4"		
													Number of Slices	Appearance (1-5)	Gel Retention (1-5)
MTH 781	6	Aug. 3.5	151	1.5	2.8	4.0	3.5	2.5	2.8	3.3	2.5	3.3	8.0	3.0	2.5
Ultra Sweet	6	Aug. 5.0	181	2.5	2.8	4.0	3.8	3.3	3.3	3.0	2.5	3.3	8.0	3.3	3.0
Har 84-091-698	1	Aug. 6.0	142	2.5	2.5	4.5	3.8	3.3	2.8	3.3	2.5	3.5	7.5	3.8	3.5
Bingo	2	Aug. 6.5	167	2.3	3.0	2.5	3.5	3.3	3.0	2.0	2.8	3.3	8.3	3.5	3.3
Har 84-093-538	1	Aug. 6.5	127	2.8	4.3	5.0	4.0	3.5	2.5	2.8	2.5	3.3	7.8	2.5	3.0
Pilgrim	5	Aug. 6.5	174	2.8	3.5	3.3	3.5	3.3	2.8	3.0	3.0	3.3	8.0	4.3	4.3
Fresh Pak	3	Aug. 7.0	154	3.0	2.8	2.0	1.8	2.5	2.0	2.5	3.0	3.5	6.8	3.3	3.0
NC 8230	4	Aug. 7.0	91	3.3	3.5	4.5	4.5	4.0	2.5	3.3	3.3	3.5	8.0	4.0	4.0
PSR 52486	5	Aug. 8.0	160	2.3	2.5	2.5	2.5	2.5	2.8	1.8	2.8	3.5	8.5	4.0	3.8
Har 84-103-664	1	Aug. 9.0	130	2.8	3.0	4.5	2.8	2.8	3.3	3.5	3.0	3.5	7.5	4.8	4.3
PSR 52986	5	Aug. 9.0	158	2.5	2.5	2.8	4.0	2.8	2.3	2.5	3.8	3.5	8.0	4.0	3.5
NC 8288	4	Aug. 9.5	186	2.8	3.5	4.8	4.3	3.5	3.0	3.3	3.3	3.3	8.8	3.8	3.3
Pik Red	3	Aug. 9.5	181	2.8	2.3	2.5	2.5	2.5	2.8	2.0	3.0	3.5	8.2	4.0	4.0
NC 86211	4	Aug. 10.0	144	3.5	3.5	5.0	5.0	3.3	2.8	3.5	3.5	3.5	7.3	4.0	3.8
NC 86210	4	Aug. 13.5	163	3.0	3.8	5.0	4.0	3.3	2.3	2.5	3.3	3.8	8.3	4.0	4.0

1) Agriculture Canada, Harrow Research Station, Harrow, Ontario, N0R 1G0

2) Ferry Morse Seed Co., Box 8, San Juan Bautista, CA, USA, 95405

3) Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY, USA, 14624

4) North Carolina State Univ., Mountain Hort. Crops Res. and Ext. Center, 2016 Fanning Bridge Rd., Fletcher, NC, 28732-9628

5) Peto Seed Co. Inc., Box 4206, Saticoy, CA, USA, 93003

6) Stokes Seed Co., Box 10, St. Catharines, Ontario, L2R 6R6

1988 PRIMARY FRESH MARKET COOPERATIVE TRIAL - SLICING TEST

Three fruits from each variety were sliced at both 1/8" and 1/4". Number of slices are on an average of three fruits.

	Slice Thickness 1/8"				Slice Thickness 1/4"			
	No. of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)	No. of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)
Red Express	16.2	2.0	1.3	2.50	9.8	2.3	1.5	2.50
Har-6	16.0	2.5	1.8	2.50	9.3	2.5	2.0	2.75
Har-7	15.8	2.0	2.3	2.50	10.5	3.0	2.5	2.50
Har-8	15.7	2.5	2.0	2.50	10.0	3.3	2.5	2.50
Har-9	16.4	2.0	1.5	2.50	10.2	2.8	1.8	2.75
Har-10	16.3	2.5	2.0	2.50	9.3	2.5	1.8	2.25
Har-11	16.0	2.5	2.0	2.75	10.2	3.0	2.8	2.50
Pik Red	15.7	3.8	2.8	2.75	10.2	3.5	3.0	2.50
Belle Star	14.7	2.5	2.0	2.25	9.83	2.8	2.5	2.25
Flash	16.3	2.5	1.5	2.50	10.5	3.3	2.5	2.50
Celebrity	15.7	1.0	1.0	2.75	11.3	3.5	2.5	3.00
Carmen	15.7	1.8	1.0	2.50	10.8	3.0	2.3	2.50
Heinz 1765	14.5	1.8	1.3	2.25	9.8	2.5	1.8	2.50
All Star	17.0	2.0	1.5	2.50	10.7	2.8	2.0	2.75
NC 8288	15.3	3.0	2.0	2.50	10.5	3.0	2.0	2.75

1988 FRESH MARKET TOMATO COOPERATIVE TRIAL (Advanced)

Cultivar	Seed Source	Earliness August	Vine Spread (1-5)	Cracking (1-5)	Yellow Top (1-5)	Appearance (1-5)	Firmness (1-5)	Blossom Scar (1-5)	Stem Scar (1-5)	Blotch (1-5)	Flesh (1-5)	Color (1-5)	Fruit <65mm Diam. t/ha	Fruit >65mm Diam. t/ha	Culls t/ha
(avg. of 4 reps)															
Belle Star	8	3.0	1.5	4.8	3.4	2.3	2.8	2.8	3.7	3.0	3.5	4.2	21.17	1.71	1.67
Bingo	4	3.5	2.5	2.6	2.6	3.5	3.5	2.5	2.8	3.1	3.4	2.8	7.21	21.34	8.47
Jack Pot	8	4.5	2.9	2.3	2.6	3.3	3.0	2.9	2.9	2.6	3.5	2.8	13.57	19.76	10.59
Fresh Pak	5	5.8	2.8	2.1	2.8	2.4	2.5	1.9	2.6	2.6	3.4	2.9	11.48	20.22	8.21
Har-2	1	6.3	2.4	2.6	2.5	3.5	3.0	3.0	3.0	2.8	3.3	2.6	12.25	11.77	1.85
Har-1	1	6.8	1.6	2.4	2.4	2.7	3.0	2.1	3.4	2.6	3.0	2.9	12.12	10.91	2.36
Duke	7	7.8	3.0	2.4	2.8	3.1	3.3	1.9	2.4	2.9	3.6	3.0	11.93	25.07	8.78
BHN #39	3	8.8	3.1	4.4	3.6	2.8	4.0	2.2	2.8	2.8	3.5	3.3	23.95	17.67	1.18
Har-3	1	8.8	3.3	3.0	2.6	3.0	2.8	2.3	2.8	2.9	3.5	3.1	15.53	16.44	4.96
Sunny	2	9.0	3.1	3.1	2.8	3.0	3.0	2.4	2.9	2.9	3.5	2.9	21.67	22.10	6.93
Har-5	1	9.3	2.8	2.6	2.8	3.1	3.0	2.4	2.8	2.9	3.3	3.0	10.72	24.77	8.12
Har-4	1	9.5	3.0	2.5	3.0	3.5	3.0	2.5	2.9	2.8	3.3	2.4	20.41	19.92	1.30
NC86210	6	9.8	3.1	4.0	3.4	3.7	4.0	2.8	3.5	3.3	3.5	2.7	16.24	25.54	3.72
NC86211	6	10.8	3.4	4.0	3.8	3.1	4.0	2.4	2.8	3.5	4.1	3.4	14.18	22.65	2.01
Mountain Pride	2	12.0	3.9	5.0	5.0	3.6	4.3	2.5	3.0	3.4	3.5	2.5	14.95	18.29	5.77

1) Agriculture Canada, Harrow Research Station, Harrow, Ontario, NOR 1G0

2) Asgrow Seed Co., Res. Dept., The Upjohn Co., Kalamazoo, MI, USA, 49001

3) BHN Research, 810 Oaks Blvd., S., Naples, Fla. USA, 33999

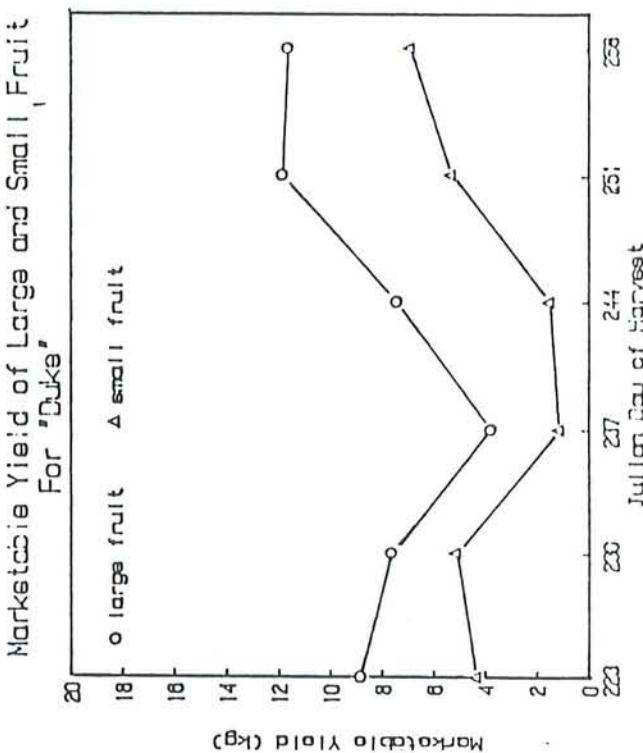
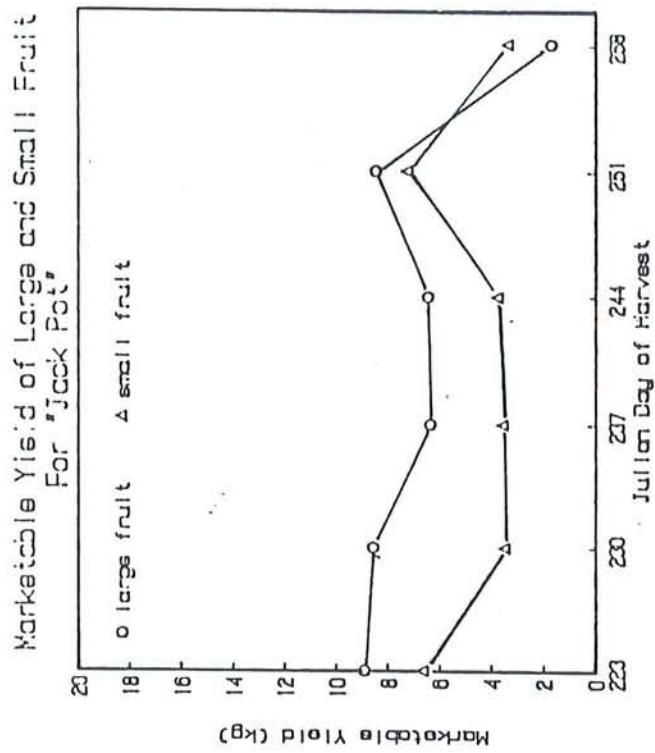
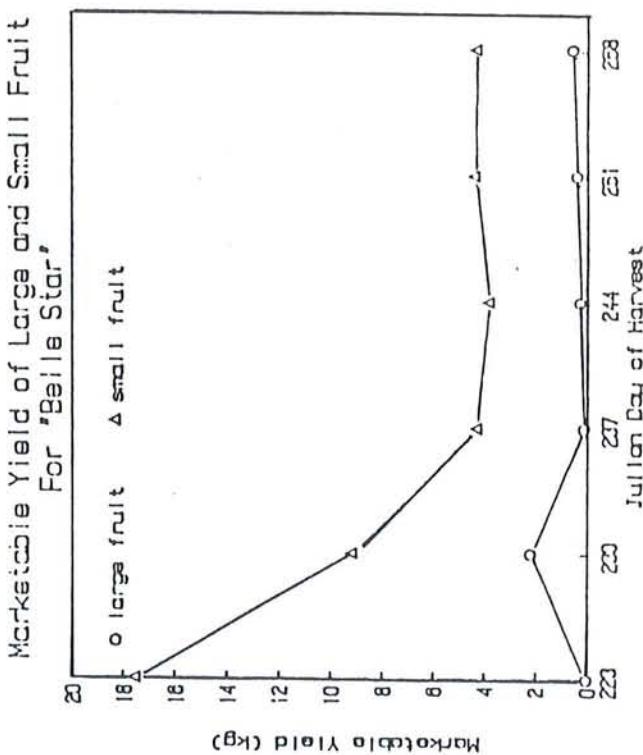
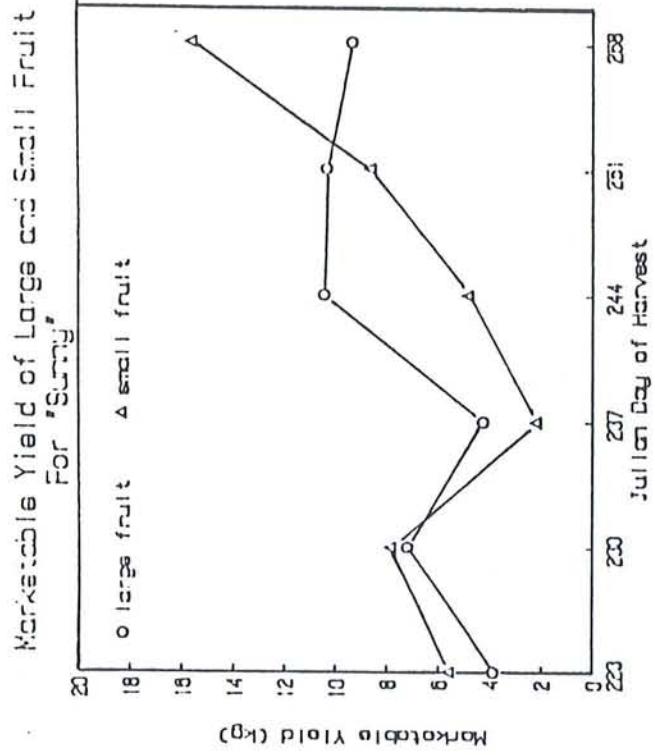
4) Ferry Morse Seed Co., Box 8, San Juan Bautista, CA, USA, 95405

5) Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY, USA, 14624

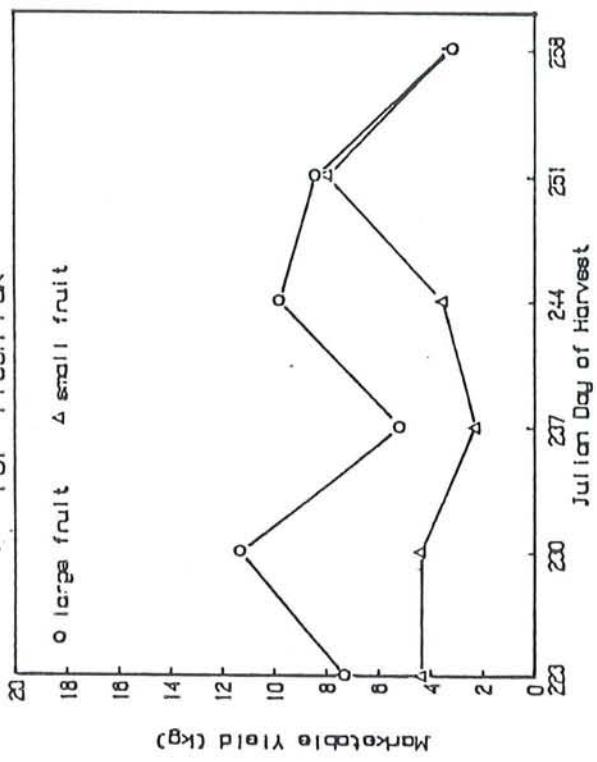
6) North Carolina State Univ., Mountain Hort. Crops Res. & Ext. Centre, 2016 Fanning Bridge Rd., Fletcher, NC, USA, 28732-9628

7) Peto Seed Co. Inc., Box 4206, Saticoy, CA, USA, 93003

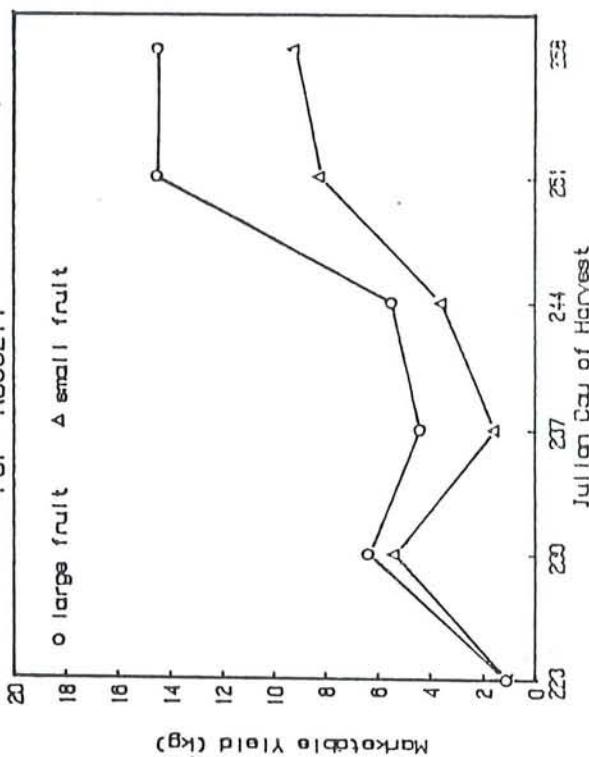
8) Stokes Seed Co., Box 10, St. Catharines, Ontario, L2R 6R6



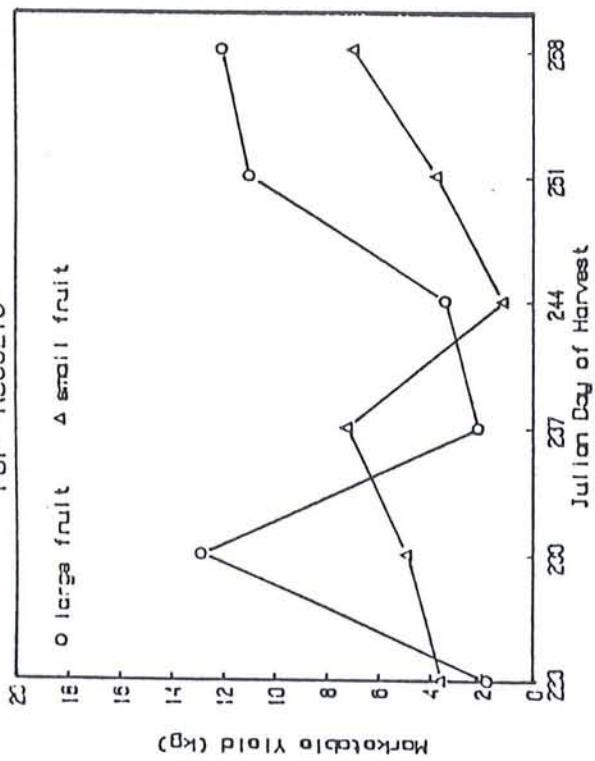
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For "Fresh Pak"



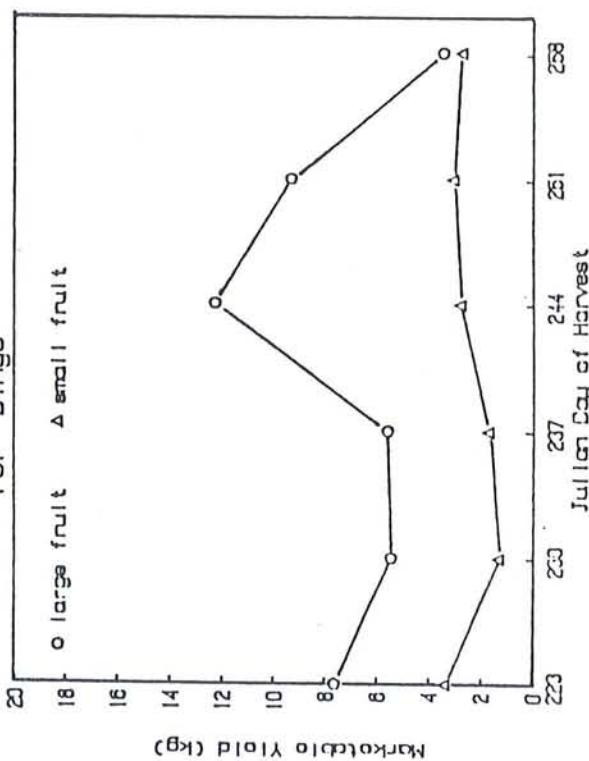
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For "NC8621"

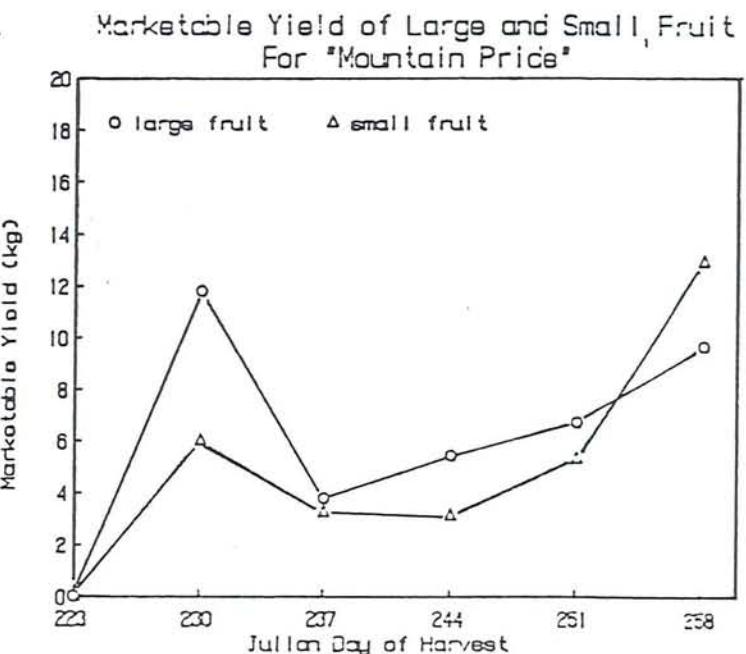
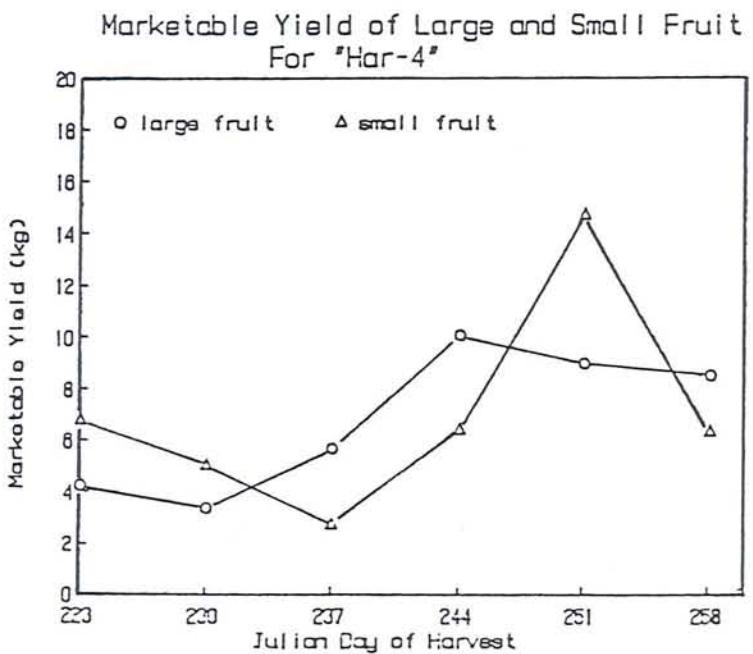
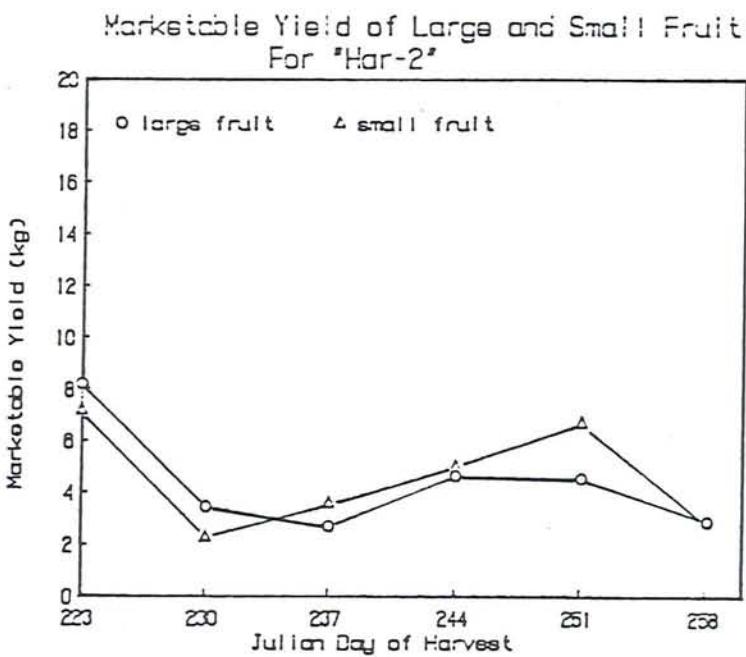
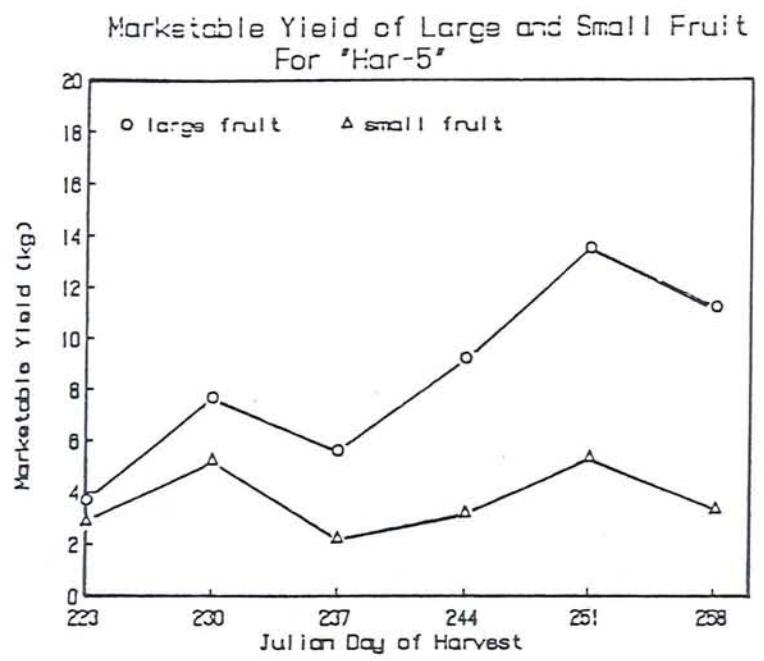


Marketable Yield of Large and Small Fruit
For "NC8210"

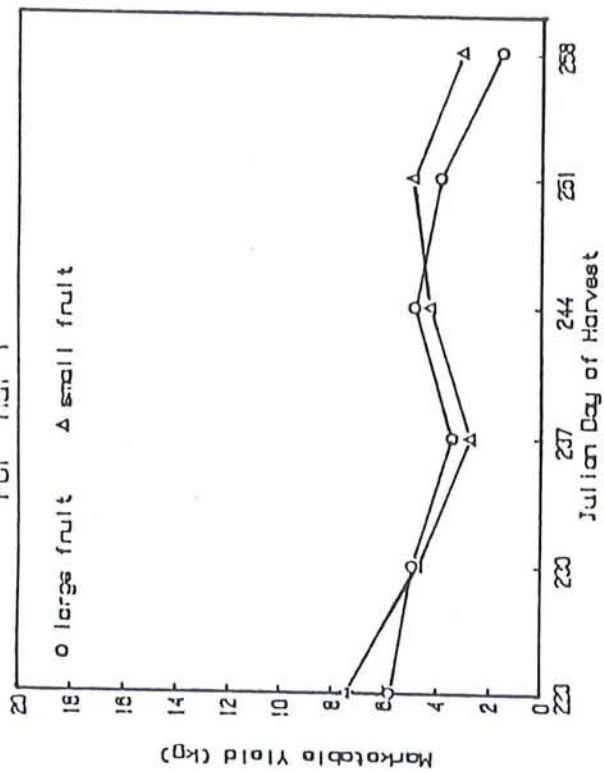


Marketable Yield of Large and Small Fruit
For "Bingo"

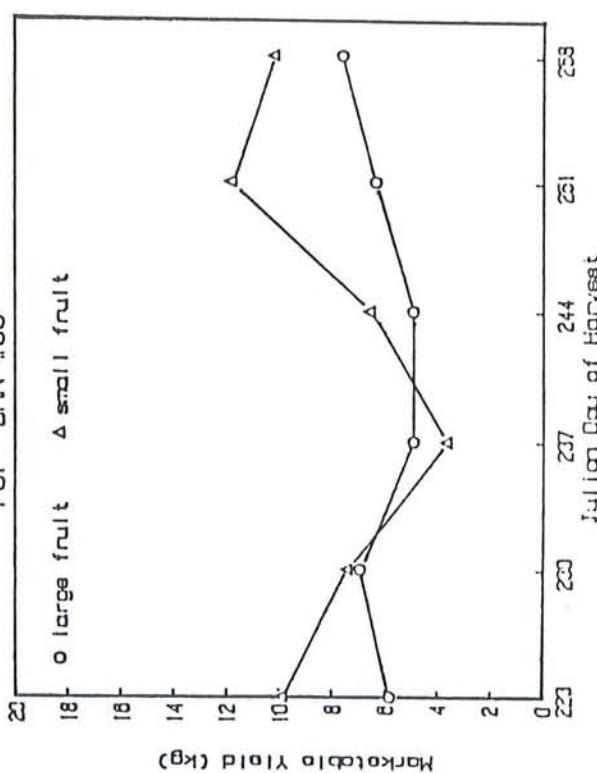




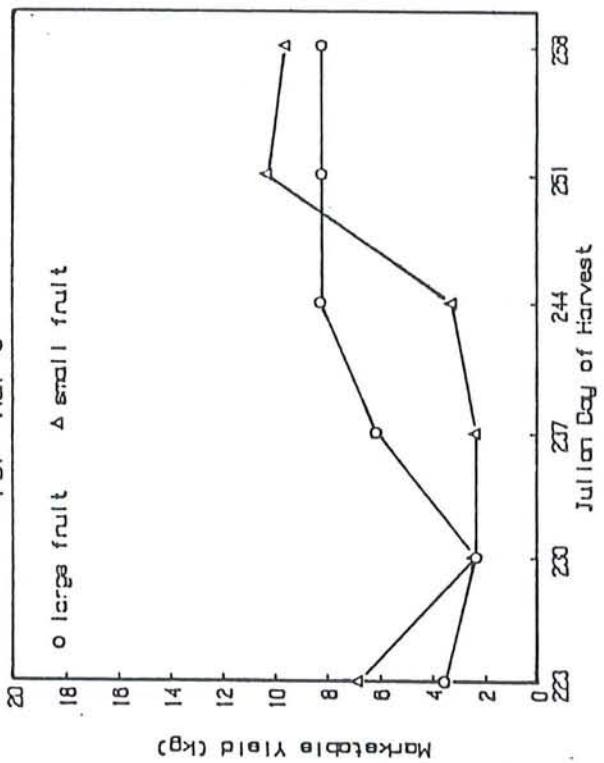
Marketable Yield of Large and Small Fruit
For "Har-1"



Marketable Yield of Large and Small Fruit
For "E-39"



Marketable Yield of Large and Small Fruit
For "Har-3"



1988 PRIMARY COOPERATIVE TRIAL (FRESH MARKET)

Cultivar	Seed Source	Maturity Date	Vine Spread (1-5)	Cover (1-5)	Cracking (1-5)	Yellow Top (1-5)	Smoothness (1-5)	Firmness (1-5)	Blossom Scar (1-5)	Stem Scar (1-5)	Blotch (1-5)	Flesh (1-5)	Color (1-5)	Mkt. Fruit <65mm (%)	Mkt. fruit >65mm (%)	Unmarketable (%)	Total Mkt. (t/ha)	Comments
Heinz 1765	7	Aug. 2.0	1.5	1.5	3.8	2.3	3.5	2.0	3.5	2.8	2.8	2.8	2.0	78	14	8	17.4	-sunscald
Belle Star	7	Aug. 3.0	1.3	2.0	3.5	3.5	2.5	3.0	3.3	2.5	3.0	2.8	2.5	68	25	7	9.4	
Carmen	4	Aug. 4.5	2.5	2.0	2.0	2.0	2.5	3.0	3.0	2.5	3.0	3.3	2.5	32	51	17	16.4	
Flash	3	Aug. 6.0	2.8	3.0	3.2	3.0	2.5	2.8	2.5	3.3	2.5	3.0	2.8	45	37	18	11.1	
Har-6	2	Aug. 6.5	2.3	2.5	3.3	3.0	3.5	3.5	3.0	3.0	3.0	2.8	2.5	25	55	20	16.3	-sunscald
Har-8	2	Aug. 7.0	3.0	3.3	4.5	3.5	3.3	3.3	2.8	3.3	3.0	3.5	2.3	56	26	18	10.3	
Har-7	2	Aug. 7.0	3.3	3.0	3.0	3.0	3.5	4.0	2.0	3.0	3.0	2.8	2.8	61	35	4	15.6	-good foliage retention
Celebrity	1	Aug. 7.5	2.8	2.8	2.0	2.3	4.0	3.5	3.0	2.5	3.0	3.0	2.0	43	50	7	16.6	-circular cracks
Pik Red	4	Aug. 7.5	2.5	2.8	2.3	2.3	1.8	3.5	2.3	1.8	3.3	3.5	3.0	29	65	6	11.1	
All Star	6	Aug. 9.0	2.8	3.5	2.3	2.3	3.0	3.0	2.3	2.5	3.0	3.0	2.3	41	54	5	18.9	-good foliage retention
NC 8288	5	Aug. 9.0	2.5	3.5	4.0	2.8	3.0	3.0	3.0	2.5	3.0	3.3	3.3	52	43	5	10.4	
Har-10	2	Aug. 9.5	2.3	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	3.0	2.8	46	47	7	13.1	
Red Express 238	7	Aug. 9.5	3.3	3.5	3.8	2.8	3.0	3.0	3.0	2.5	3.0	3.0	2.5	39	45	16	16.2	
Har-11	2	Aug. 10.5	3.0	2.5	5.0	3.0	3.3	3.0	2.5	2.8	3.3	3.0	2.8	48	51	1	19.3	
Har-9	2	Aug. 11.0	3.0	3.0	2.5	2.8	3.5	3.5	2.3	3.0	3.3	3.5	2.8	51	43	6	15.8	

- 1) Abbott & Cobb Seeds Inc., Box 307, Feasterville, PA, USA, 19047
- 2) Agriculture Canada, Harrow Research Station, Harrow, Ontario, NOR 1G0
- 3) Asgrow Seed Co., Res. Dept., The Upjohn Co., Kalamazoo, MI, USA, 49001
- 4) Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY, USA, 14624
- 5) North Carolina State Univ., Mountain Hort. Crops Res. & Ext. Center, 2016 Fanning Bridge Rd., Fletcher, NC, 28732-9628
- 6) Peto Seed Co. Inc., Box 4206, Saticoy, CA, USA, 93003
- 7) Stokes Seed Co., Box 10, St. Catharines, Ontario, L2R 6R6

ADVANCED COOPERATIVE FRESH MARKET STORAGE TEST

Ten fruits were harvested on August 24, at mature green stage. Bags were placed in a cooler at 4°C for seven days, taken out and left at room temperature for five days. Fruits were evaluated for external qualities. Three fruits from each variety were sliced at both 1/8" and 1/4". Number of slices are on an average of three fruits.

Cultivar	Firmness (1-5)	Appearance (1-5)	No. of fruits not ripened	Blotchy Ripening (1-5)	Cracking (1-5)	Fruit Breakdown	Slice Thickness 1/8"			Slice Thickness 1/4"				
							No. of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)	No. of Slices	Appearance (1-5)	Gel Retention (1-5)	Slice Diameter (in.)
Belle Star	3.1	2.0	2.0	2.6	3.9	0.5	11.3	2.8	2.1	1.75	8.6	2.9	2.5	2.00
Duke	3.1	2.6	1.5	2.6	3.4	0.8	13.1	3.5	3.0	2.75	8.8	3.9	3.8	3.00
Sunny	3.1	2.8	1.3	2.8	4.1	1.0	12.3	3.6	2.9	2.75	8.1	3.9	3.6	2.75
Jack Pot	2.9	2.8	2.3	3.1	3.3	1.0	13.0	3.4	2.4	2.75	8.2	3.8	3.5	2.75
Bingo	3.3	2.9	2.3	2.5	3.6	0.3	13.3	2.9	1.9	2.75	8.8	3.1	2.5	2.75
NC86210	3.5	2.9	0.8	3.6	3.8	1.5	12.0	3.6	3.0	2.75	8.4	4.0	3.9	2.75
NC86211	3.8	3.0	0.8	3.1	4.0	0.8	13.2	4.0	3.9	2.75	8.5	4.0	3.9	2.50
Fresh Pak	3.4	2.4	1.5	2.3	2.5	1.0	12.9	3.9	3.3	2.75	9.3	3.5	3.1	3.00
BHN #39	3.0	3.4	1.5	4.0	4.1	0.8	11.9	3.9	3.1	2.75	8.6	4.1	3.8	2.75
Har-1	3.3	2.0	1.5	1.9	3.5	1.3	11.9	3.5	3.0	2.50	8.3	3.5	3.3	2.75
Har-2	2.9	2.3	1.5	2.4	3.3	0.8	12.0	3.4	2.6	2.75	7.7	3.8	3.3	2.75
Har-3	2.8	2.9	0.5	2.6	3.4	0.5	12.5	3.9	3.1	2.75	8.1	3.5	2.6	2.75
Har-4	2.5	2.6	1.8	2.8	2.9	0.0	12.8	3.4	2.6	2.75	8.4	3.5	3.1	2.75
Har-5	3.0	2.9	1.0	2.3	3.9	0.3	12.3	3.4	2.8	3.00	8.4	3.5	3.0	2.75
Mountain Pride	3.6	3.6	0.3	4.3	4.4	1.8	11.9	3.3	2.5	2.75	7.7	3.5	3.0	3.00