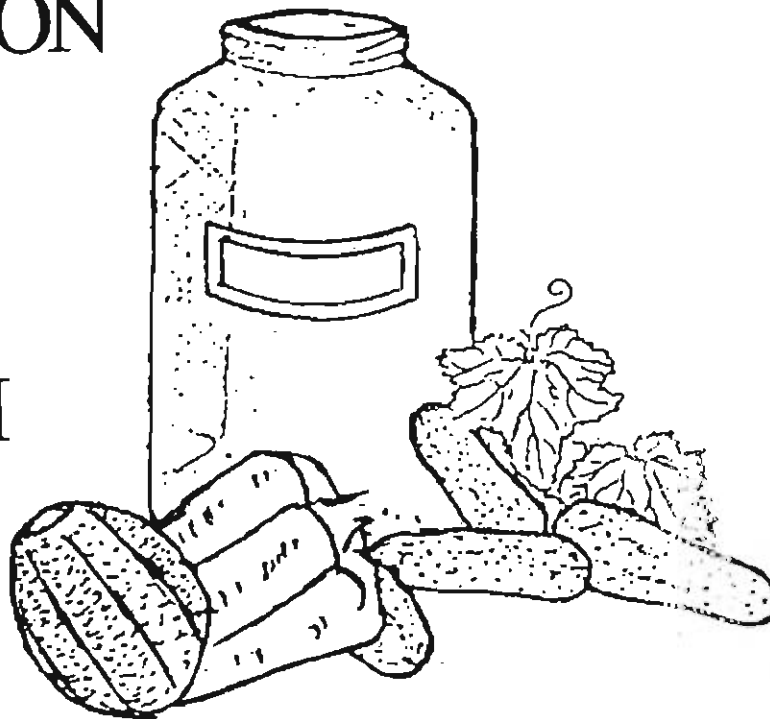


PICKLING CUCUMBER
MUSK MELON
PEPPER
BEET
RESEARCH
REPORT
1995



Horticultural Experiment Station
Simcoe, Ontario

FOREWORD

This report summarizes pickling cucumber, muskmelon, pepper and beet trials conducted at the Horticultural Experiment Station, Simcoe, 1995. Additional copies of this report as well as more detailed information on any particular experiment can be obtained by contacting the Horticultural Experiment Station at Simcoe.

NOTE: Yields presented in this report are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

Acknowledgements

1. We wish to express our sincere thanks to the seed companies who provided seed and monetary assistance for these cultivar trials
2. Assistance from Bick's with the cucumber brining as well as monetary assistance provided is gratefully acknowledged.
3. Assistance from the Ontario Vegetable Growers Marketing Board (OVGMB) for monetary assistance is greatly appreciated.
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CULTURAL INFORMATION

Pickling Cucumber

Pickling cucumber cultivar trials were conducted at the Horticultural Experiment Station, Simcoe in 1995. Trials were on sandy loam soils. Cucumbers were seeded with an Almaco cone seeder attached to a Stanhay precision seeder and hand-thinned to give an in-row spacing of 15 cm (Hand-pick) and 10 cm (Once-over). Cultural practices throughout the season were carried out according to recommended procedures. Cucumber beetles were kept under control with timely sprays of insecticide. Plots were harvested 6 times in the multipick hand harvest trials. The once-over trial was harvested by hand to simulate machine harvest.

Fruit was graded by size, counted, weighed, fresh quality was evaluated and a sample of each cultivar was placed in brine. Brining of fruit was carried out in 225 liter barrels with air and nitrogen purging. Brined fruits were rated by a panel of judges.

Muskmelon

All trials were conducted on a sandy loam soil. Muskmelons were seeded into a 5 cm square plastic pot on April 26. On May 26, they were transplanted, with an in-row spacing of 76 cm with row widths of 1.8 m, in black plastic using a Mechanical Mulch transplanter. Powdery mildew and cucumber beetles were kept under control with fungicide and insecticide sprays. Muskmelons were harvested 11 times from August 3 - September 15.

Peppers

All trials were conducted on a sandy loam soil. Peppers were established in the field from transplants raised in the greenhouse. The plants were transplanted 0.45 m apart, using a RJV600 plug planter, with rows 1.0 m apart. Detailed cultural information on each experiment is presented with the yield data. The plants in all trials were relatively free from insects. Aphids were observed during the growing season and were kept under control with a regular spray program. Yields are given in metric tonnes per hectare (t/ha). (Tonnes/ha x 0.446 = tons/acre). Fruit number refers to the average number of fruit per plant.

Beets

This trial was conducted on a Berrien sandy loam soil. Beets were seeded with an Almaco cone seeder attached to a Stanhay precision seeder and hand thinned to give an in-row spacing of 5 cm. Cultural practices throughout the season were carried out according to recommended procedures. Beets were graded by size, counted and weighed for yield results. One half of each plot was harvested for early yield on August 28, followed by a final harvest on September 25.

BEETS

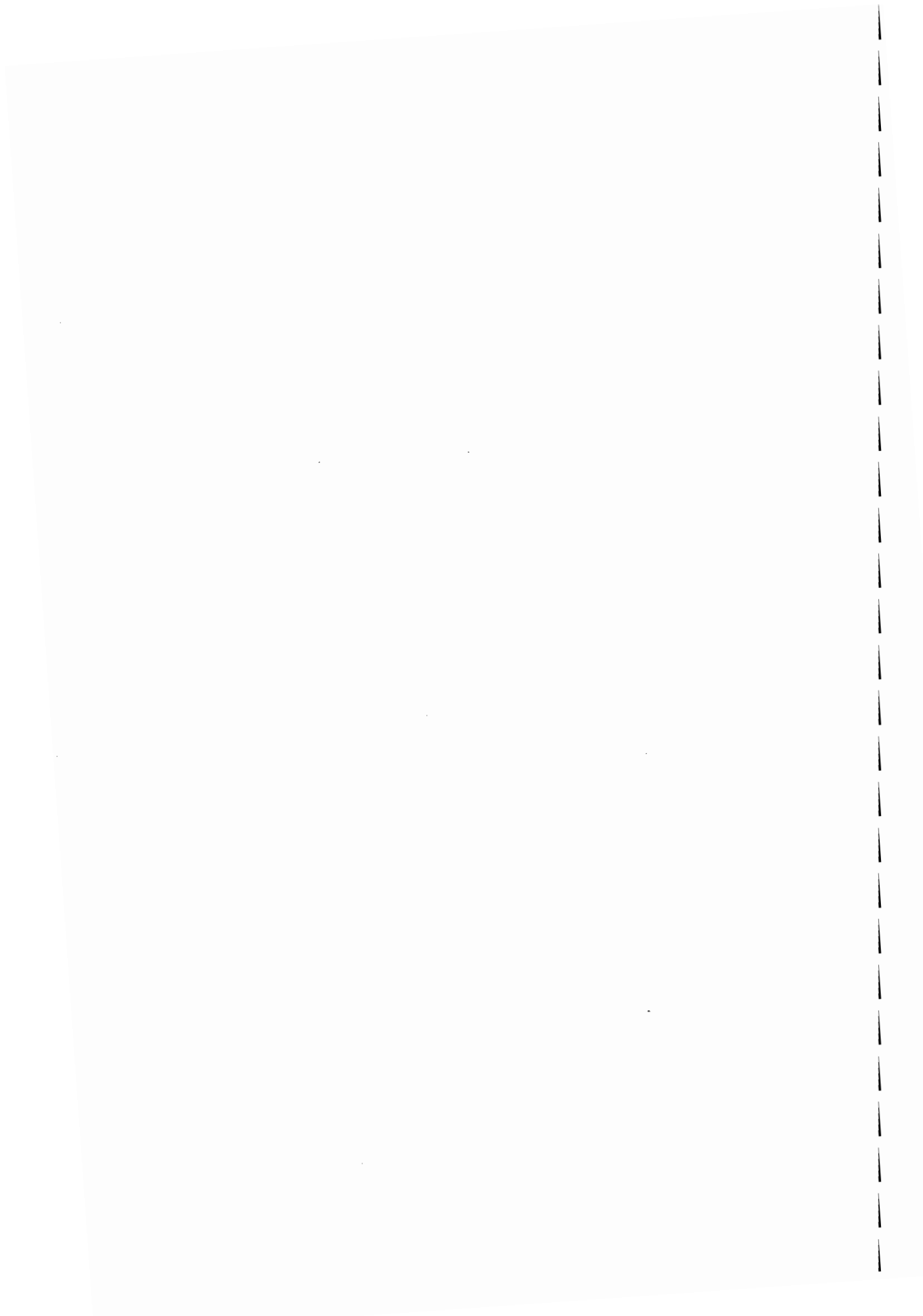
Beet Cultivar Trial (Observation), Simcoe, 1995

Cultivar	Source	Early Yield (t/ha)							Late Yield (t/ha)						
		Grades							Grades						
		Under	1	2	3	4	OS	TOTAL	Under	1	2	3	4	OS	TOTAL
Pacemaker III	Stokes	0.0	0.1	1.6	10.2	47.4	28.3	87.6	0.0	0.0	4.0	6.6	49.7	40.0	100.3
Ruby Queen	Ferry Morse	0.1	0.5	6.6	17.5	27.3	8.7	60.6	0.0	0.1	7.4	9.5	47.8	31.7	96.5
PS 2988	Peto	0.0	0.3	8.3	16.8	43.9	5.8	75.0	0.0	0.4	1.2	11.7	52.2	30.2	95.7
Detroit Dark Red	Ferry Morse	0.0	0.8	8.7	13.0	23.9	12.5	58.9	0.0	0.0	1.9	8.3	27.6	55.6	93.4
Sangria	Peto	0.0	0.1	5.2	16.0	25.3	13.4	60.0	0.0	0.6	4.8	12.7	43.7	25.0	86.8
Rosette	Asgrow	0.1	2.0	8.3	15.6	27.7	17.5	71.2	0.0	0.6	0.0	9.6	62.4	13.0	85.6
D.D.R. (med top)	Peto	0.0	0.9	8.4	18.7	30.9	14.0	73.1	0.0	0.7	4.2	11.7	40.9	27.5	85.0
Garnet	Peto	0.0	0.4	6.4	12.3	24.5	8.4	52.0	0.0	0.0	3.3	7.2	24.5	46.0	81.0
Red Ace	Stokes	0.0	0.2	8.7	12.6	37.8	3.6	62.9	0.0	0.1	5.6	14.2	49.4	11.5	80.8
D.D.R. (short top)	Peto	0.0	0.3	8.5	16.4	29.3	1.3	55.9	0.0	0.5	5.6	12.5	42.8	17.9	79.3
Red Velvet	Ferry Morse	0.0	0.0	6.7	18.2	28.9	7.7	61.5	0.0	0.2	1.3	8.3	58.5	4.1	72.4

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : May 30, 1995
 Rows : 0.5 m
 In-row Spacing : 5 cm

Plant Population : 400,000
 Fertilizer : 350 kg/ha 34-0-0
 Herbicide : Pyramin @ 3.54 kg/ha +
 Citowett Plus @ 2.0 L/ha
 Harvested : August 28, September 25

CUCUMBERS



FRESH QUALITY EVALUATION OF PICKLING CUCUMBERS

Sex Expression

of nodes with female flowers (0-10) : 0 = no nodes with female flowers
10 = all nodes with female flowers

Vine Vigor (1-5) :

1 = very vigorous
2 = vigorous
3 = medium
4 = short
5 = very short

External Quality

Blossom End (1-5) :

1 = blunt
5 = tapered

Shoulder (1-5) :

1 = blunt
5 = tapered

Ridging & Spines (1-5) :

1 = distinct warts and spines
(most acceptable)
2-5 = ridges and spines too
prominent or too smooth
(less acceptable)

Colour (1-5) :

1 = medium light green
(most acceptable)
2-5 = paler or darker green
(less acceptable)

Internal Quality

Seed cavity size (1-5) :

1 = small
5 = large

Seed size (1-5) :

1 = small
5 = large

Carpel Separation (0-10) :

0 = no fruit with separation
10 = all fruit with separation

Yields of Cucumbers From Advanced Multipick Trial, Simcoe, 1995

Cultivar	Source	L:D Ratio	Yield			
			t/ha		\$/ha	
			Early*	Total	Early*	Total
Napoleon	Sun Seeds	3.3	17.8	43.9	\$4,439	\$10,258
Score	Asgrow	3.2	12.1	43.2	\$2,814	\$9,988
Vlasset B	Asgrow	3.2	13.1	41.4	\$3,137	\$9,893
Fancipak	Asgrow	3.1	10.7	43.3	\$2,551	\$9,746
Endeavour	Rogers	3.1	13.3	44.3	\$2,960	\$9,502
Fancipak M	Asgrow	3.1	12.0	41.2	\$3,051	\$9,413
Vlasset	Asgrow	2.9	11.9	39.0	\$2,995	\$9,314
Triplemech	Peto	3.2	12.1	40.7	\$2,955	\$9,300
Pik-Rite	Ferry Morse	3.0	8.2	36.7	\$2,013	\$8,668
Flurry M	Asgrow	3.1	13.5	36.4	\$3,276	\$8,336
Flurry B	Asgrow	3.4	13.8	36.3	\$3,125	\$8,057
Express	Rogers	3.3	9.4	26.8	\$2,838	\$6,817

* Yield to July 26, 1995.

Soil Type : Berrien Sandy Loam
 Soil pH : 6.30
 Seeding Date : May 30, 1995
 Plot Size : 1.5m x 10.0m
 Rows : 1.5 m
 Plants : 15 cm

Plant population : 44,444 plants
 Fertilizer : 350 kg/ha 34-0-0
 Herbicide : Prefar @12 L/ha +
 Alanap @12 L/ha
 Harvest Dates : July 21 - Aug. 15

* Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
 Note: Grades 4 and O/S are not included in yield data.

**Fresh Quality Evaluation of Pickling Cucumber Cultivars
Advanced Multipick Trial - Simcoe, 1995**

Cultivar	Source	Sex Expression (0-10)	Vine Vigor (1-5)	Blossom- end (1-5)	Shoulder (1-5)	Ridging & Spines (1-5)	Colour (1-5)	Seed Cavity (1-5)	Seed Size (1-5)	Carpel Separation (0-10)
Napoleon	Sun Seeds	3.2	2.8	2.0	3.0	1.0	3.0	2.0	4.0	2.0
Score	Asgrow	3.4	1.0	3.5	3.5	1.0	1.0	1.5	2.0	4.0
Vlasset B	Asgrow	5.9	2.2	2.5	3.0	2.0	3.0	1.0	2.0	0.0
Fancipak	Asgrow	5.3	0.8	1.5	2.0	1.0	1.0	1.0	2.0	3.0
Endeavour	Rogers	5.1	2.0	2.0	3.0	1.0	2.0	2.0	2.0	1.0
Fancipak M	Asgrow	4.2	1.2	2.0	2.0	1.0	1.0	1.5	2.0	5.0
Vlasset	Asgrow	7.4	2.5	2.5	3.0	1.0	2.5	1.0	2.0	0.0
Triplemech	Peto	4.7	1.8	2.5	3.0	1.0	2.5	1.5	1.5	1.0
Pik-Rite	Ferry Morse	6.6	1.2	2.5	3.0	1.0	2.0	1.0	1.0	0.0
Flurry M	Asgrow	6.6	3.0	2.5	3.0	1.0	2.0	1.5	2.0	0.0
Flurry B	Asgrow	5.2	2.5	3.0	3.0	1.0	3.0	1.0	2.0	0.0
Express	Rogers	2.0	2.5	3.5	3.5	1.0	2.5	1.0	1.0	0.0

Yields of Cucumbers From Main Multipick Trial, Simcoe, 1995

Cultivar	Source	L:D Ratio	Yield			
			t/ha		\$/ha	
			Early*	Total	Early*	Total
Vlasstar B	Asgrow	3.2	13.7	44.2	\$3,349	\$10,436
Bush Baby	Stokes	3.2	13.2	41.5	\$3,296	\$9,834
Regal	Harris Moran	3.2	12.0	40.5	\$3,128	\$9,677
Royal	Harris Moran	3.1	14.4	40.2	\$3,551	\$9,423
FMX 4934	Ferry Morse	3.4	13.4	38.2	\$3,255	\$9,166
Patton	Sun Seeds	3.1	9.4	35.9	\$2,285	\$8,262
FMX 4937	Ferry Morse	3.2	11.2	36.7	\$2,566	\$8,160
Neptune	Harris Moran	3.3	12.9	34.4	\$2,911	\$7,937
Patton C	Sun Seeds	3.2	8.7	33.0	\$2,072	\$7,806
Calypso M	Asgrow	3.2	10.6	30.8	\$2,427	\$6,953
Duke	Harris Moran	2.9	9.2	31.1	\$2,177	\$6,864
Calypso	Asgrow	3.2	9.0	29.2	\$2,092	\$6,591

* Yield to July 26, 1995.

Soil Type : Berrien Sandy Loam
 Soil pH : 6.30
 Seeding Date : May 30, 1995
 Plot Size : 1.5m x 10.0m
 Rows : 1.5 m
 Plants : 15 cm

Plant population : 44,444 plants
 Fertilizer : 350 kg/ha 34-0-0
 Herbicide : Prefar @12 L/ha +
 Alanap @12 L/ha
 Harvest Dates : July 21 - Aug. 15

* Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
 Note: Grades 4 and O/S are not included in yield data.

**Fresh Quality Evaluation of Pickling Cucumber Cultivars
Main Multipick Trial - Simcoe, 1995**

Cultivar	Source	Sex Expression (0-10)	Vine Vigor (1-5)	Blossom- end (1-5)	Shoulder (1-5)	Ridging & Spines (1-5)	Colour (1-5)	Seed Cavity (1-5)	Seed Size (1-5)	Carpel Separation (0-10)
Vlasstar B	Asgrow	6.6	1.8	2.0	2.5	1.0	2.5	1.5	2.0	0.0
Bush Baby	Stokes	4.9	2.7	3.5	3.5	2.0	2.0	1.0	1.0	0.0
Regal	Harris Moran	6.6	2.0	3.0	3.0	2.0	2.0	1.5	2.5	0.0
Royal	Harris Moran	6.7	1.7	3.5	3.5	1.0	2.0	1.0	1.5	0.0
FMX 4934	Ferry Morse	2.7	1.2	3.0	3.0	1.0	2.5	2.0	2.0	2.0
Patton	Sun Seeds	4.9	1.3	2.5	3.0	1.0	3.0	2.0	2.0	3.0
FMX 4937	Ferry Morse	5.1	1.4	2.5	2.5	2.0	2.5	2.0	2.0	4.0
Neptune	Harris Moran	2.7	1.8	2.5	3.0	1.0	2.0	2.0	1.5	1.0
Patton C	Sun Seeds	5.4	1.1	2.0	2.5	1.0	3.0	2.0	2.0	1.0
Calypso M	Asgrow	4.2	2.0	2.5	3.0	1.0	1.5	1.5	1.0	0.0
Duke	Harris Moran	7.0	2.5	2.5	3.0	1.0	2.5	1.5	2.0	0.0
Calypso	Asgrow	6.5	2.0	2.5	3.0	1.0	2.0	1.5	1.5	0.0

Yields of Cucumbers From Observation Multipick Trial, Simcoe, 1995

Cultivar	Source	L:D Ratio	Yield			
			t/ha		\$/ha	
			Early*	Total	Early*	Total
PC 4	Rogers	3.3	6.9	37.1	\$1,739	\$8,786
Perfecto Verde 14	Rogers	3.0	12.5	39.7	\$2,888	\$8,662
Quest	Peto	3.3	8.5	35.6	\$1,956	\$8,224
Bradley C	Sun Seeds	3.1	7.2	29.8	\$2,019	\$7,981
PS 64487	Peto	3.2	8.1	31.3	\$1,800	\$7,162
HMX 3469	Harris Moran	3.2	10.2	30.2	\$2,370	\$7,138
FMX 5021	Ferry Morse	3.4	3.9	29.1	\$923	\$6,906
PSR 10588	Peto	3.2	11.9	29.8	\$2,761	\$6,820
Salty	Stokes	3.3	6.0	29.3	\$1,438	\$6,740
Bradley	Sun Seeds	3.0	5.9	27.7	\$1,563	\$6,617
FMX 5020	Ferry Morse	3.5	9.0	28.4	\$1,832	\$6,538
Premier	Asgrow	2.9	6.3	26.5	\$1,441	\$5,926

* Yield to July 26, 1995.

Soil Type	: Berrien Sandy Loam	Plant population	: 44,444 plants
Soil pH	: 6.30	Fertilizer	: 350 kg/ha 34-0-0
Seeding Date	: May 30, 1995	Herbicide	: Prefar @12 L/ha + Alanap @12 L/ha
Plot Size	: 1.5m x 10.0m	Harvest Dates	: July 21 - Aug. 15
Rows	: 1.5 m		
Plants	: 15 cm		

* Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
Note: Grades 4 and O/S are not included in yield data.

**Fresh Quality Evaluation of Pickling Cucumber Cultivars
Observation Multipick Trial - Simcoe, 1995**

Cultivar	Source	Sex Expression (0-10)	Vine Vigor (1-5)	Blossom- end (1-5)	Shoulder (1-5)	Ridging & Spines (1-5)	Colour (1-5)	Seed Cavity (1-5)	Seed Size (1-5)	Carpel Separation (0-10)
PC 4	Rogers	3.9	1.4	2.5	2.5	1.0	3.0	2.0	2.0	0.0
Perfecto Verde 14	Rogers	4.1	1.5	2.5	3.0	1.0	1.0	2.0	3.0	1.0
Quest	Peto	4.1	1.8	2.5	2.5	1.0	1.5	2.0	1.0	0.0
Bradley C	Sun Seeds	3.5	2.5	3.0	2.5	1.0	2.0	2.0	1.0	0.0
FMX 5021	Ferry Morse	4.4	1.3	2.0	2.0	2.0	2.0	1.0	2.0	0.0
PS 64487	Peto	3.4	1.4	2.0	2.5	1.0	1.5	2.0	1.0	0.0
Bradley	Sun Seeds	3.9	1.9	2.5	2.5	2.0	2.5	2.0	2.0	1.0
Salty	Stokes	4.4	2.0	2.0	2.5	1.0	2.5	2.0	1.0	0.0
HMX 3469	Harris Moran	5.9	2.0	2.5	3.0	1.0	2.5	2.0	1.0	0.0
FMX 5020	Ferry Morse	3.7	2.0	2.0	3.0	5.0	3.0	1.5	2.0	0.0
PSR 10588	Peto	3.6	3.0	2.5	2.5	1.0	2.0	2.0	1.0	0.0
Premier	Asgrow	3.0	2.3	2.0	2.5	1.0	1.0	1.5	1.0	0.0

Yields of Cucumbers From Once-Over Harvest Cultivar Trial 1995 - Graded 1,2,3s

Cultivar	Source	L:D Ratio	Fruit # /plant	Yield	
				t/ha	\$/ha
Discover M	Asgrow	3.4	1.54	26.0	\$5,441
Excel M	Asgrow	3.3	1.46	24.0	\$5,389
Vlaspik	Asgrow	3.6	1.38	24.0	\$5,260
Atlantis	Harris Moran	3.1	1.22	22.7	\$4,783
Vlaspik B	Asgrow	3.5	1.28	22.6	\$4,677
Lafayette C	Sun Seeds	3.4	1.23	19.6	\$4,265
Triplemech	Peto	3.2	1.28	19.0	\$4,252
FMX 4937	Ferry Morse	3.2	1.16	19.2	\$4,005
Bush Baby	Stokes	3.6	1.00	18.9	\$3,882
Spear-It	Ferry Morse	3.3	1.14	17.7	\$3,733
Cross Country	Ferry Morse	3.3	0.95	16.0	\$3,664
Calypso	Asgrow	3.2	0.95	16.3	\$3,575
Sunnex 3538 C	Sun Seeds	3.2	1.00	14.2	\$3,236
Flurry B	Asgrow	3.2	1.00	14.1	\$3,113
Sunnex 3542 C	Sun Seeds	3.2	0.78	12.0	\$2,650
Napoleon	Sun Seeds	3.3	0.73	11.7	\$2,569

Soil Type	: Berrien Sandy Loam	Plant population	: 200,000 plants/ha
Soil pH	: 6.30	Fertilizer	: 350 kg/ha 34-0-0
Seeding Date	: June 29, 1995	Herbicide	: Prefar @12 L/ha + Alanap @12 L/ha
Plot Size	: 1.5m x 10.0m	Harvest Dates	: Aug. 15 - Aug. 17
Rows	: 0.5 m	Method of Harvest	: Hand
Plants	: 10 cm		

* Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
Note: Grades 4 and O/S are not included in yield data.

Yields of Cucumbers From Once-Over Harvest Cultivar Trial 1995 - Field Run

Cultivar	Source	L:D Ratio	Fruit # /plant	Yield	
				t/ha	\$/ha
Vlaspik	Asgrow	3.6	1.54	31.3	\$4,532
Discover M	Asgrow	3.4	1.62	29.8	\$4,314
Vlaspik B	Asgrow	3.5	1.40	28.0	\$4,052
Excel M	Asgrow	3.3	1.52	26.6	\$3,842
Atlantis	Harris Moran	3.1	1.29	25.9	\$3,754
Lafayette C	Sun Seeds	3.4	1.33	24.0	\$3,466
Bush Baby	Stokes	3.6	1.08	22.3	\$3,224
Triplemech	Peto	3.2	1.36	22.2	\$3,209
FMX 4937	Ferry Morse	3.2	1.23	22.1	\$3,204
Calypso	Asgrow	3.2	1.08	21.8	\$3,155
Cross Country	Ferry Morse	3.3	1.07	21.3	\$3,075
Spear-It	Ferry Morse	3.3	1.20	20.3	\$2,933
Flurry B	Asgrow	3.2	1.08	17.2	\$2,488
Sunnex 3538 C	Sun Seeds	3.2	1.05	16.4	\$2,372
Napoleon	Sun Seeds	3.3	0.80	15.0	\$2,174
Sunnex 3542 C	Sun Seeds	3.2	0.82	14.1	\$2,043

Soil Type	: Berrien Sandy Loam	Plant population	: 200,000 plants/ha
Soil pH	: 6.30	Fertilizer	: 350 kg/ha 34-0-0
Seeding Date	: June 29, 1995	Herbicide	: Prefar @12 L/ha + Alanap @12 L/ha
Plot Size	: 1.5m x 10.0m	Harvest Dates	: Aug. 15 - Aug. 17
Rows	: 0.5 m	Method of Harvest	: Hand
Plants	: 10 cm		

* Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
Note: O/S are not included in yield data.

**Fresh Quality Evaluation of Pickling Cucumber Cultivars
Once-Over Harvest Trial - Simcoe, 1995**

Cultivar	Source	Sex Expression (0-10)	Blossom- end (1-5)	Shoulder (1-5)	Ridging & Spines (1-5)	Colour (1-5)	Seed Cavity (1-5)	Seed Size (1-5)	Carpel Separation (0-10)
Discover M	Asgrow	9.1	3.0	3.0	1.0	1.5	1.5	1.5	0.0
Excel M	Asgrow	8.8	2.0	2.5	1.0	1.0	2.0	2.5	1.0
Vlaspik	Asgrow	4.9	2.5	3.0	1.5	3.0	2.0	2.5	0.0
Atlantis	Harris Moran	5.7	3.0	3.0	1.5	2.0	2.5	2.0	3.0
Vlaspik B	Asgrow	6.4	2.5	3.0	1.0	2.0	2.5	2.5	0.0
Lafayette C	Sun Seeds	6.4	3.0	3.0	1.0	2.0	2.0	3.0	0.0
Triplemech	Peto	6.9	2.5	3.0	1.0	1.5	1.5	1.5	0.0
FMX 4937	Ferry Morse	8.4	2.5	2.0	1.0	2.5	3.0	3.0	0.0
Bush Baby	Stokes	7.0	3.0	2.0	1.5	1.5	1.0	2.0	0.0
Spear-It	Ferry Morse	5.3	3.0	2.0	1.0	1.5	2.5	2.0	0.0
Cross Country	Ferry Morse	6.4	1.0	2.0	1.0	1.0	1.5	2.5	0.0
Calypso	Asgrow	4.9	1.0	1.0	1.0	1.0	2.0	2.0	0.0
Sunnex 3538 C	Sun Seeds	5.2	2.0	2.0	1.0	2.0	2.5	2.5	0.0
Flurry B	Asgrow	7.0	2.0	2.0	1.0	2.0	2.5	3.0	0.0
Sunnex 3542 C	Sun Seeds	2.7	1.5	1.5	1.0	2.0	2.0	3.0	2.0
Napoleon	Sun Seeds	5.4	2.0	2.0	1.0	1.5	1.5	2.0	0.0

BRINE STOCK QUALITY EVALUATION OF PICKLING CUCUMBERS

External Quality

Shape (1-5) :
1 = blossom end/shoulder blunt
5 = blossom end/shoulder tapered

Ridging & Spines (1-5) :
1 = distinct warts and spines
(most acceptable)
2-5 = ridges and spines too prominent or too smooth
(less acceptable)

Colour (1-5) :
1 = medium light green
(most acceptable)
2-5 = paler or darker green
(less acceptable)

Internal Quality

Colour (1-5) :
1 = uniform olive green
(most acceptable)
2-5 = variable green
(less acceptable)

Firmness (1-5) :
1 = very firm
5 = very soft

Placenta size (1-5) :
1 = small
5 = large

Seed size (1-5) :
1 = small
5 = large

Recovery (0-100%) :
0 = no cucumbers useable
100 = all cucumbers useable

$$\% \text{ Recovery} = \frac{\text{Total x (Fraction recoverable x \# of pickles)}}{\text{Total \# of pickles}} \times 100\%$$

Brine Stock Rating of Cucumbers - Advanced Multipick Trial - Simcoe, 1995

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
Fancipak M	Asgrow	1.4	1.9	2.1	2.1	2.3	1.9	2.1	1.6	2.0	89
Score	Asgrow	2.6	2.6	3.0	2.4	2.3	2.0	2.1	2.6	2.4	85
Flurry B	Asgrow	3.3	2.7	3.0	2.7	2.6	2.4	2.7	3.3	2.8	80
Fancipak	Asgrow	2.3	2.6	2.7	3.1	2.4	3.6	2.9	2.9	2.8	57
Flurry M	Asgrow	3.0	2.7	3.4	3.1	2.4	3.0	2.4	3.0	2.9	95
Triplemech	Peto	2.9	2.9	2.9	3.3	2.6	3.3	2.9	3.1	2.9	85
Vlasset B	Asgrow	2.6	2.9	2.7	3.0	2.6	3.9	3.3	3.3	3.0	80
Vlasset	Asgrow	3.0	2.7	3.7	3.3	2.9	2.6	2.7	3.6	3.0	87
Express	Rogers	3.7	2.9	3.1	2.7	2.7	2.9	3.3	3.4	3.0	67
Endeavour	Rogers	2.6	2.6	3.4	3.3	2.7	3.6	3.3	3.4	3.1	85
Pik-Rite	Ferry Morse	3.3	2.7	3.1	3.0	3.0	3.4	3.1	3.3	3.1	89
Napoleon	Sun Seeds	3.1	2.9	3.4	3.4	3.4	3.3	3.3	3.7	3.3	97

Ratings: 1 = most acceptable; 5 = least acceptable

* Is a general overall rating.

** Includes shape, ridges & spines, external colour, internal colour, firmness, placenta size and seed size.

BRINE STOCK QUALITY EVALUATION OF PICKLING CUCUMBERS

External Quality

Shape (1-5) :	1 = blossom end/shoulder blunt 5 = blossom end/shoulder tapered
Ridging & Spines (1-5) :	1 = distinct warts and spines (most acceptable) 2-5 = ridges and spines too prominent or too smooth (less acceptable)
Colour (1-5) :	1 = medium light green (most acceptable) 2-5 = paler or darker green (less acceptable)

Internal Quality

Colour (1-5) :	1 = uniform olive green (most acceptable) 2-5 = variable green (less acceptable)
Firmness (1-5) :	1 = very firm 5 = very soft
Placenta size (1-5) :	1 = small 5 = large
Seed size (1-5) :	1 = small 5 = large

<u>Recovery</u> (0-100%) :	0 = no cucumbers useable 100 = all cucumbers useable
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$$\% \text{ Recovery} = \frac{\text{Total x (Fraction recoverable x \# of pickles)}}{\text{Total \# of pickles}} \times 100\%$$

Brine Stock Rating of Cucumbers - Advanced Multipick Trial - Simcoe, 1995

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
Fancipak M	Asgrow	1.4	1.9	2.1	2.1	2.3	1.9	2.1	1.6	2.0	89
Score	Asgrow	2.6	2.6	3.0	2.4	2.3	2.0	2.1	2.6	2.4	85
Flurry B	Asgrow	3.3	2.7	3.0	2.7	2.6	2.4	2.7	3.3	2.8	80
Fancipak	Asgrow	2.3	2.6	2.7	3.1	2.4	3.6	2.9	2.9	2.8	57
Flurry M	Asgrow	3.0	2.7	3.4	3.1	2.4	3.0	2.4	3.0	2.9	95
Triplemech	Peto	2.9	2.9	2.9	3.3	2.6	3.3	2.9	3.1	2.9	85
Vlasset B	Asgrow	2.6	2.9	2.7	3.0	2.6	3.9	3.3	3.3	3.0	80
Vlasset	Asgrow	3.0	2.7	3.7	3.3	2.9	2.6	2.7	3.6	3.0	87
Express	Rogers	3.7	2.9	3.1	2.7	2.7	2.9	3.3	3.4	3.0	67
Endeavour	Rogers	2.6	2.6	3.4	3.3	2.7	3.6	3.3	3.4	3.1	85
Pik-Rite	Ferry Morse	3.3	2.7	3.1	3.0	3.0	3.4	3.1	3.3	3.1	89
Napoleon	Sun Seeds	3.1	2.9	3.4	3.4	3.4	3.3	3.3	3.7	3.3	97

Ratings: 1 = most acceptable; 5 = least acceptable

* Is a general overall rating.

** Includes shape, ridges & spines, external colour, internal colour, firmness, placenta size and seed size.

Brine Stock Rating of Cucumbers - Main Multipick Trial - Simcoe, 1995

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
Calypso M	Asgrow	2.4	2.3	2.6	2.1	2.4	2.1	2.1	2.3	2.3	70
Regal	Harris Moran	3.0	2.7	2.4	1.9	2.0	2.1	2.1	2.3	2.3	95
Patton	Sun Seeds	2.4	2.4	2.1	2.3	3.0	2.6	2.6	2.3	2.5	85
Patton C	Sun Seeds	2.4	2.4	2.3	2.1	2.4	2.7	3.1	2.1	2.5	75
Calypso	Asgrow	2.6	2.6	2.7	2.9	2.3	2.7	2.7	2.7	2.6	50
FMX 4937	Ferry Morse	2.1	2.7	2.6	2.4	2.6	2.9	3.1	2.6	2.6	90
Vlasstar B	Asgrow	2.1	2.3	2.4	3.1	2.7	3.0	3.0	2.6	2.7	90
Royal	Harris Moran	3.6	2.7	2.9	2.3	2.6	2.7	2.7	3.0	2.8	95
Bush Baby	Stokes	3.7	2.9	3.0	2.7	2.6	2.6	2.6	3.1	2.9	89
Duke	Harris Moran	2.9	3.1	3.9	3.7	2.9	3.0	2.1	3.9	3.1	97
Neptune	Harris Moran	3.3	3.0	3.7	3.4	2.9	4.1	2.7	3.6	3.3	80
FMX 4934	Ferry Morse	3.7	3.7	4.3	2.9	3.4	3.0	3.4	3.9	3.5	10

Ratings: 1 = most acceptable; 5 = least acceptable

* Is a general overall rating.

** Includes shape, ridges & spines, external colour, internal colour, firmness, placenta size and seed size.

Brine Stock Rating of Cucumbers - Observation Multipick Trial - Simcoe, 1995

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
PS 64487	Peto	2.4	2.4	2.7	2.6	2.6	2.0	1.7	2.6	2.4	97
FMX 5020	Ferry Morse	2.6	2.9	2.6	3.0	2.4	2.0	1.4	2.7	2.4	90
PC 4	Rogers	2.6	2.3	2.3	2.7	2.4	2.7	2.9	2.9	2.6	93
Perfecto Verde 14	Rogers	2.9	2.3	2.7	2.1	2.4	3.0	2.7	2.6	2.6	77
Salty	Stokes	2.6	2.7	2.6	2.3	2.6	2.6	3.0	2.6	2.6	83
FMX 5021	Ferry Morse	2.9	2.9	2.6	2.6	2.3	2.4	3.1	2.7	2.7	80
Bradley C	Sun Seeds	2.6	2.9	2.4	3.0	2.6	2.7	2.7	2.9	2.7	80
Quest	Peto	2.9	2.7	2.7	3.0	2.7	2.7	2.3	3.0	2.7	100
Premier	Asgrow	2.9	2.7	2.9	3.4	2.3	2.6	2.9	3.0	2.8	90
Bradley	Sun Seeds	3.3	3.4	2.7	3.1	2.9	2.6	2.0	3.3	2.9	75
HMX 3469	Harris Moran	3.3	2.7	2.9	3.0	2.6	2.9	2.9	3.1	2.9	94
PSR 10588	Peto	3.3	3.1	2.7	3.0	2.6	2.9	2.7	3.1	2.9	97

Ratings: 1 = most acceptable; 5 = least acceptable

* Is a general overall rating.

** Includes shape, ridges & spines, external colour, internal colour, firmness, placenta size and seed size.

Brine Stock Rating of Cucumbers - Once-Over Harvest Trial - Simcoe, 1995

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
Cross Country	Ferry Morse	2.1	2.7	3.4	3.1	3.0	2.7	2.3	2.9	2.8	70
Vlaspik B	Asgrow	2.9	3.0	3.3	2.7	3.4	2.6	2.9	3.1	3.0	57
FMX 4937	Ferry Morse	3.1	2.9	3.3	2.6	3.1	2.9	3.1	3.3	3.0	47
Triplemech	Peto	3.1	3.0	3.3	3.1	3.0	3.0	3.0	3.1	3.1	85
Excel M	Asgrow	2.9	2.9	3.6	3.6	3.1	2.4	3.3	3.3	3.1	80
Napoleon	Sun Seeds	3.3	3.3	3.1	2.9	3.3	2.7	3.3	3.4	3.1	85
Sunnex 3538 C	Sun Seeds	3.1	3.3	3.4	2.4	3.3	2.9	3.4	3.3	3.1	70
Lafayette C	Sun Seeds	3.1	3.1	3.1	3.4	3.6	2.9	3.3	3.4	3.2	60
Discover M	Asgrow	3.3	3.0	3.6	3.3	3.1	3.0	3.4	3.1	3.2	69
Calypso	Asgrow	3.6	3.3	3.6	3.3	3.3	3.1	2.6	3.4	3.2	85
Bush Baby	Stokes	3.3	3.1	3.3	3.4	3.6	3.4	3.4	3.3	3.4	85
Spear-It	Ferry Morse	3.4	3.4	4.3	3.1	3.4	2.7	3.6	3.7	3.4	60
Flurry B	Asgrow	2.9	3.3	3.6	3.9	3.4	4.0	3.3	3.7	3.5	85
Atlantis	Harris Moran	3.4	3.6	3.4	3.6	3.9	3.1	3.4	3.7	3.5	70
Sunnex 3542 C	Sun Seeds	3.4	3.9	4.1	3.4	3.7	2.6	3.4	4.0	3.5	74
Vlaspik	Asgrow	3.3	3.6	3.9	4.0	3.7	3.1	3.6	3.9	3.6	70

Ratings: 1 = most acceptable; 5 = least acceptable

* Is a general overall rating.

** Includes shape, ridges & spines, external colour, internal colour, firmness, placenta size and seed size.

MELONS

Muskmelon Cultivar Observation Trial, Simcoe, 1995

Cultivar	Source	Marketable Yield			
		Fruit #/ Plant	Fruit Wt. (kg)	Early* (t/ha)	Total (t/ha)
Super Sun	Burpee	6.5	2.2	10.0	103.9
Superstar	Harris Moran	5.1	2.3	28.8	85.6
Cordele	Asgrow	5.2	2.2	30.0	83.3
Early Dawn	Harris Moran	6.1	1.8	35.8	80.4
Summet	Asgrow	7.2	1.5	18.2	79.5
Eclipse	Peto	4.6	2.3	16.0	77.1
Fanfair	Asgrow	4.0	2.5	33.6	72.7
Athena	Rogers	5.0	1.9	16.9	70.6
Bailan	H.R.I.O., Vineland	5.9	1.4	17.9	58.6
Elizabeth	H.R.I.O., Vineland	4.8	0.7	21.6	24.4

* Yield to August 8

Soil Type	: Berrien Sandy Loam	Plants/ha	: 7,290
pH	: 7.35	Fertilizer	: 350 kg/ha 34-0-0
Seeded	: April 26, 1995	Harvested	: August 3 - September 15
Transplanted	: May 26, 1995		

Muskmelon Cultivar Observation Trial, Simcoe, 1995

Cultivar	Source	Melon Appearance				Vine Vigor (1-5)*	Seed Cavity Size**	Brix Sugar Test
		Sutures	Netting Coverage	Netting Texture	Shape			
Super Sun	Burpee	deep	full	medium	flat-round	2.7	M	6.8
Superstar	Harris Moran	deep	partial	coarse	flat-round	4.7	S	10.5
Cordele	Asgrow	medium	full	medium	flat-round	1.3	M	11.0
Early Dawn	Harris Moran	medium	full	medium	oval	3.0	L	7.0
Summet	Asgrow	slight	partial	medium	round-oval	1.8	M	12.0
Eclipse	Peto	slight	partial-full	coarse	round-oval	1.7	M	14.2
Fanfair	Asgrow	deep	full	medium	flat-round	1.8	M	11.2
Athena	Rogers	slight	partial-full	medium	round	1.7	M	12.6
Bailan	H.R.I.O., Vineland	---	---	---	round-oval	3.5	M	6.2
Elizabeth	H.R.I.O., Vineland	---	---	---	round	5.0	M	10.6

* 1=excellent vine vigor; 5=No vigor, vine is dead; ** S=small, M=medium, L=large

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : April 26, 1995
 Transplanted : May 26, 1995

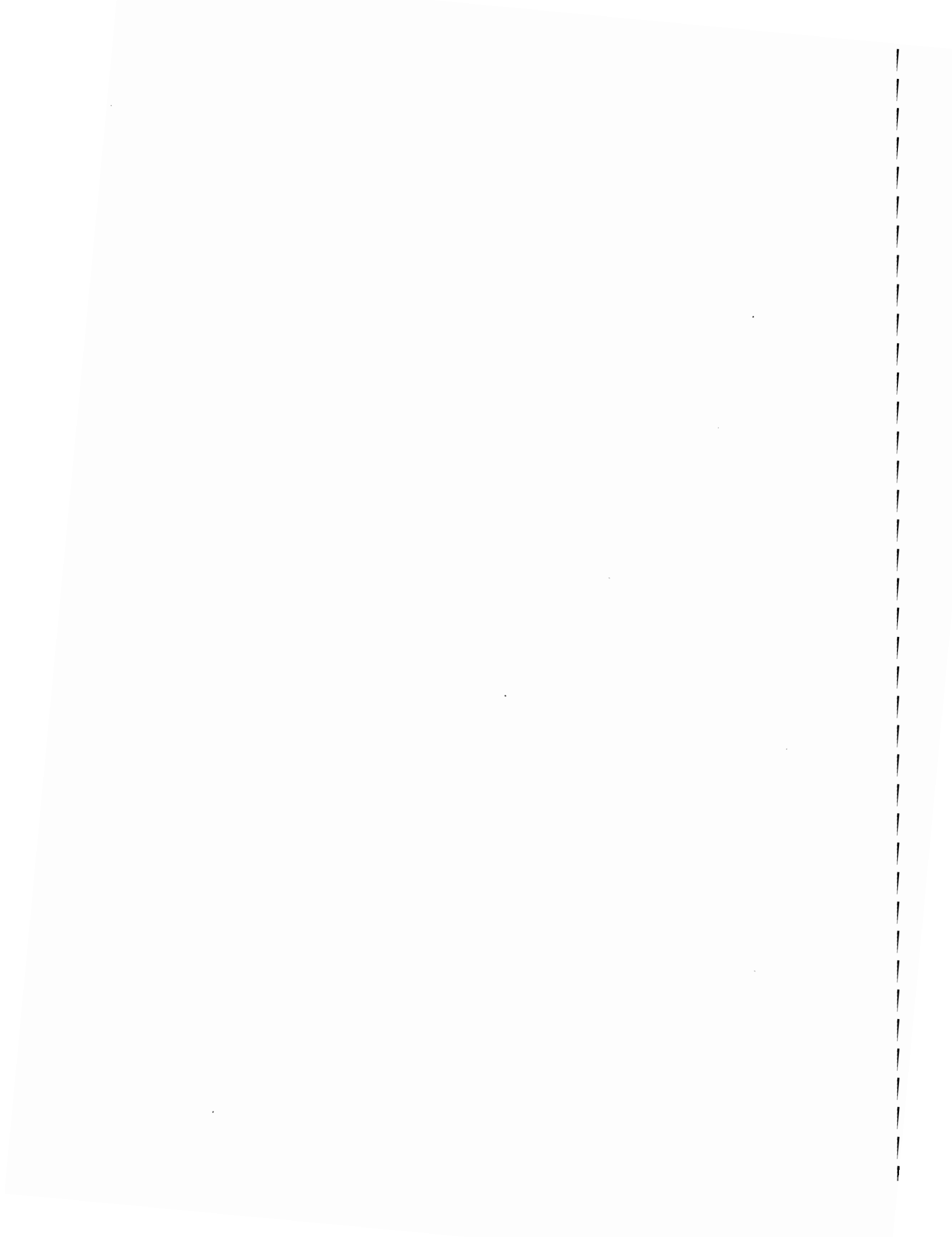
Plants/ha : 7,290
 Fertilizer : 350 kg/ha 34-0-0
 Harvested : August 3 - September 15

MUSKMELON CULTIVAR DESCRIPTIONS

- Eclipse** : small size, well netted with no sutures. Round melon.
- Athena** : medium to large, slight to medium sutures, well netted. Round melon.
- Cordele** : medium to large, medium sutures, well netted.
- Fanfare** : extremely large fruit like Superstar, deep sutures, well netted.
- Summet** : small fruit, round, slight sutures, well netted.
- Elizabeth** : small fruit, round, no sutures, no netting, deep yellow colour when mature, green colour when immature.
- Bailan** : medium to large round, no netting or very faint, no sutures, light green colour. Turning whitish at maturity.
- Superstar** : very similar to Fanfair. Deep sutures, large, well netted.
- Early Dawn** : medium to large fruit, medium sutures, tight netting, oval fruit shape.
- Supersun** : smaller version of Superstar, very deep grooves, flat shape, well netted.

PEPPERS





Bell Pepper Cultivar Trial (Replicated), Simcoe, 1995

Cultivar	Source	Wall Size (mm)	L:D Ratio	No. of Lobes	Fruit #/ Plant	Fruit Wt. (g)	Non-Mkt Yield (t/ha)	Marketable Yields	
								Early* (t/ha)	Total (t/ha)
Aladdin	Petoseed	5.0	1.4	3.8	6.3	228	2.6	0.0	25.9
Merlin	Petoseed	7.2	1.2	3.0	7.3	181	3.5	2.5	23.5
Camelot	Petoseed	6.9	1.2	2.7	5.8	204	2.0	0.0	22.3
Domino	Asgrow	6.2	1.6	3.3	5.0	231	2.7	3.6	20.0
Marengo	Asgrow	n/a	n/a	n/a	4.8	215	2.8	2.1	18.8
Enterprise	Asgrow	6.4	1.4	2.8	5.6	194	3.2	1.4	18.7
Boynton Bell	Harris Moran	8.0	1.3	3.2	4.8	203	2.6	1.0	17.9
Midway	Stokes	7.1	1.2	2.8	6.2	173	3.9	3.5	17.3
North Star	Stokes	6.3	1.2	3.5	6.0	155	2.5	4.6	17.0
Elegance	Enza Zaden	7.0	1.0	3.5	4.5	235	4.2	3.6	16.7
Renegade	Asgrow	6.6	1.4	3.2	4.7	208	2.9	4.0	16.3
Edino	Petoseed	6.8	1.3	3.0	5.1	181	2.8	2.8	15.1
Rebell	Asgrow	6.9	1.3	2.7	4.8	190	3.1	3.5	15.0
Lady Bell	Harris Moran	6.8	1.3	2.7	5.0	154	1.2	3.3	14.8
Lantern	Enza Zaden	7.2	1.5	3.3	4.6	182	2.0	2.5	14.3
Bell King	Harris Moran	7.3	1.5	3.3	3.1	214	1.4	6.7	12.5
King Arthur	Stokes	7.2	1.4	2.7	3.5	210	2.2	4.6	11.4

* Yield to August 23

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : April 5, 1995
 Trans-planted : May 29, 1995

Plant Population : 22, 222
 Fertilizer : 250 kg/ha 34-0-0
 Herbicide : Treflan 545 @ 1.5 L/ha
 Harvested : Aug. 23 - Sept. 21

Bell Pepper Cultivar Trial (Observation), Simcoe, 1995

Cultivar	Source	Wall Size (mm)	L:D Ratio	No. of Lobes	Fruit #/ Plant	Fruit Wt. (g)	Non-Mkt Yield (t/ha)	Marketable Yields	
								Early* (t/ha)	Total (t/ha)
Acapulco	Vilmorin	6.8	1.5	3.2	5.5	220	2.2	1.8	22.1
Blockbuster	Stokes	7.9	1.8	3.2	7.0	198	4.3	2.5	21.8
NVH 3085	Rogers	7.1	1.4	3.3	5.7	221	3.8	0.0	19.9
Navarone	Stokes	5.2	3.1	3.3	7.5	180	6.0	0.9	19.2
HMX 5641	Harris Moran	5.6	1.4	3.0	5.1	174	1.3	0.6	17.1
HMX 5642	Harris Moran	7.9	1.3	3.0	3.8	214	0.4	2.7	17.1
Red Dawn	Stokes	5.5	1.6	2.2	7.8	132	3.8	6.0	16.6
Purple King	Stokes	7.3	1.2	3.3	5.1	169	1.9	4.3	15.4
Figaro	Vilmorin	6.5	1.2	3.5	4.6	182	2.2	2.4	15.0
Hercules	Stokes	6.1	2.3	3.3	4.6	173	2.2	2.6	13.1
EXP 5020	Stokes	7.0	1.3	3.5	5.6	151	3.8	0.1	11.7
Martindale III	Stokes	5.7	2.1	2.8	4.2	144	1.5	4.2	10.6
Redstart	Stokes	6.7	1.4	2.8	4.5	151	6.5	3.9	7.4
Inia ez	Enza Zaden	6.1	1.2	3.4	2.8	204	3.2	2.6	7.1
Gold Finch	Stokes	8.0	1.7	3.0	2.2	164	1.1	3.1	6.0

* Yield to August 23

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : April 5, 1995
 Trans-planted : May 29, 1995

Plant Population : 22, 222
 Fertilizer : 250 kg/ha 34-0-0
 Herbicide : Treflan 545 @ 1.5 L/ha
 Harvested : Aug. 23 - Sept. 21

BELL PEPPER CULTIVAR DESCRIPTIONS

Acapulco

Large, slightly elongated blocky bell. Green to red. Tall plant provides good protection from the sun.

Bell King

Large fruit. Elongated bell. Green to red. Excellent fruit set. Medium to large plant. Excellent foliage cover. Looks good.

Blockbuster

Medium size fruit. Tall upright plant provides good cover.

Domino

Elongated bell. Medium to large size. Medium sized plant. Good foliage cover. Medium to good potential. Green to red fruit.

Edino

Medium to large blocky bell. Green to red. Medium sized plant. Good foliage cover.

Elegance

Big blocky bell. Green to red.

Figaro

Excellent fruit set on a very small plant. Uniform plants. Average cover. Green to red.

Gold Finch

Large blocky bell. Light green to lemon to red.

Hercules

Large, green to red bell.

Inia ez

Large blocky bell. Green to yellow. Good fruit set. Open growing plant.

King Arthur

Plant size is small to medium. Average size. Fruit turns from green to red.

Lady Bell

Medium sized blocky bell. Green to red. Medium plant size. Average foliage cover.

BELL PEPPER CULTIVAR DESCRIPTIONS (Cont.)

Lantern

Large blocky bell, slightly elongated. Green to red.

Martindale III

Slightly elongated bell. Green to red. medium sized plant. Medium to good foliage cover.

Merlin

Blocky to slightly elongated bell. Green to red fruit. Fruit size is variable from medium to large. Medium to fairly large plant. Average to good foliage cover.

Midway

Medium to large open type plant. Medium blocky to slightly elongated bell. Fairly good fruit set. Somewhat variable plant size.

Navarone

Very large bell. Green to red fruit. Set on tall plants with good foliage.

North Star

Medium fruit size. Green to red. Excellent fruit set. Plants are medium size, tending to be somewhat open.

Purple King

Medium sized purple fruit.

Rebell

Medium sized plants. Average foliage cover. Medium sized fruit. Blocky bell to somewhat elongated. Plant size is variable.

Red Dawn

Medium fruit size. Green to red bell.

Redstart

Excellent, very concentrated fruit set. Medium plant size. Medium blocky to slightly elongated bell. Medium fruit size. Green to red. uniform plant type. Good foliage cover.

Renegade

Somewhat blocky bell. Small to average fruit size. Green to red. Plant size is small. Good foliage cover.

BELL PEPPER CULTIVAR DESCRIPTIONS (Cont.)

X3R Aladdin

Green to yellow. Large, smooth, blocky fruit. Tolerant/resistant to bacterial spot races 1, 2 and 3.

X3R Camelot

Large blocky bell. Green to red. Fairly large open type plant. Good foliage cover. Tolerant/resistant to bacterial leaf spot races 1, 2 and 3.

Enterprise

Blocky bell. Green to red. Bacterial leaf spot resistance to races 1, 2 and 3.

Marengo

Green to deep orange. medium plant size. Blocky to slightly elongated bell. Large fruit size.

Banana Pepper Cultivar Trial (Observation), Simcoe, 1995

Cultivar	Source	Marketable Fruit (t/ha)									Total
		> 12.5 cm			10.0 - 12.5 cm			< 10.0 cm			
		Red	Breaker	Yellow	Red	Breaker	Yellow	Red	Breaker	Yellow	
Golden Arrow	Stokes	7.9	4.4	5.3	0.7	0.5	2.4	0.1	0.1	0.1	21.5
Hungarian Yellow Wax	Ferry Morse	2.2	2.8	3.8	0.7	0.9	5.8	0.4	0.2	4.8	21.5
Inferno*	Peto	3.0	5.4	8.3	0.0	0.0	0.3	0.3	0.2	0.1	17.5
Banana Supreme	Peto	5.2	5.2	3.6	0.4	0.8	1.4	0.4	0.3	0.0	17.3
Crimson Hot*	Stokes	3.7	1.9	1.9	1.1	1.4	3.5	0.5	0.2	2.7	16.7
Sweet Banana	Peto	1.6	2.6	3.9	0.9	0.6	3.7	0.1	0.2	2.4	16.0
Hungarian Yellow Wax Hot*	Peto	3.4	2.6	2.5	0.7	0.4	3.4	0.2	0.0	1.4	14.6
Volcano*	Ferry Morse	2.3	1.5	4.8	0.2	0.1	4.2	0.0	0.0	1.3	14.4
Surefire*	Seedway	3.2	2.9	3.3	0.3	0.5	2.6	0.2	0.3	0.5	13.7
Super Hungarian Hot*	Stokes	4.6	4.6	2.6	0.2	0.2	0.8	0.1	0.0	0.3	13.5
Yellow Bannana Mission	Stokes	2.9	4.7	4.1	0.0	0.1	0.6	0.0	0.0	0.1	12.5
Super Sweet Banana	Stokes	3.9	3.4	3.3	0.1	0.2	0.9	0.0	0.0	0.0	11.9
Hungarian Medium Hot*	Stokes	1.1	3.8	1.4	0.7	1.4	1.1	0.0	0.3	1.1	11.0
Copacabana*	Harris Moran	1.9	1.7	2.8	0.1	0.1	2.5	0.1	0.0	0.6	9.9

* Hot Banana

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : April 5, 1995
 Transplanted : May 29, 1995

Plant Population : 22,222
 Fertilizer : 250 kg/ha 34-0-0
 Herbicide : Treflan 545 @ 1.5 L/ha
 Harvested : September 5

Banana Pepper Cultivar Trial (Observation), Simcoe, 1995. (Continued)

Cultivar	Source	Marketable		L:D Ratio	Wall Size (mm)	Yields (t/ha)			
		Fruit # / Plant	Fruit Wt. (g)			Immature	Crooked	Off Type	Culls
Golden Arrow	Stokes	14.5	55	4.9	4.8	0.6	0.6	0.0	1.0
Hungarian Yellow Wax	Ferry Morse	31.9	30	4.7	4.0	1.4	0.5	0.0	0.4
Banana Supreme	Peto	14.5	54	4.9	4.6	0.2	1.4	0.0	0.2
Inferno*	Peto	14.5	54	5.4	3.5	0.4	1.3	0.0	0.6
Crimson Hot*	Stokes	18.8	40	2.9	5.1	1.2	0.8	0.1	0.9
Sweet Banana	Peto	19.9	36	3.3	4.3	1.0	1.1	0.0	0.6
Hungarian Yellow Wax Hot*	Peto	18.9	35	4.0	3.5	0.6	0.3	0.0	0.2
Volcano*	Ferry Morse	16.2	40	3.5	4.2	0.7	0.4	0.0	0.2
Surefire*	Seedway	15.7	39	3.7	3.8	0.5	0.6	0.0	0.3
Super Hungarian Hot*	Stokes	10.5	58	4.6	4.7	0.3	2.4	0.0	0.8
Yellow Bannana Mission	Stokes	12.0	47	7.1	3.4	0.7	3.9	0.0	2.1
Super Sweet Banana	Stokes	9.3	58	5.0	4.6	0.3	2.4	0.0	0.9
Hungarian Medium Hot*	Stokes	4.6	107	n/a	n/a	0.2	0.0	0.0	0.3
Copacabana*	Harris Moran	12.6	35	3.8	4.3	1.1	0.2	0.1	0.1

* Hot Banana

Soil Type : Berrien Sandy Loam
 pH : 7.35
 Seeded : April 5, 1995
 Transplanted : May 29, 1995

Plant Population : 22,222
 Fertilizer : 250 kg/ha 34-0-0
 Herbicide : Treflan 545 @ 1.5 L/ha
 Harvested : September 5

BANANA PEPPER CULTIVAR DESCRIPTIONS

Banana Supreme

This is a sweet banana. It has yellow to orange to red colour. Good fruit size. Foliage coverage is average.

Golden Arrow

Yellow to orange to red. Excellent fruit set. Large fruit.

Yellow Banana Mission

Compare to Golden Arrow and Super Sweet Banana.

Super Sweet Banana

Good foliage cover. Yellow to orange to red. uniform plants. Large fruit with a nice red colour.

Sweet Banana

This is a standard variety. Yellow to orange to red. Fruit size is small to medium. Good fruit set.

Copacabana

Yellow to orange to dark red fruit. Medium size fruit. Medium size plant with good foliage cover. Good fruit set.

Crimson Hot

Green to chocolate to red. Average to good fruit set. Good foliage cover. Dark red fruit.

Hungarian Medium Hot

Similar to Super Hungarian Hot. Large fruit. Uniform colour. Light green to yellow to red.

Hungarian Yellow Wax Hot

This is a standard variety for quality. Yellow to orange to red. Poor foliage cover. Average fruit set.

Inferno

Excellent variety. Yellow to orange to red. Excellent fruit set. Good plant size. All round excellent variety.

Super Hungarian Hot Wax

Excellent fruit set. Large plant size. Good foliage cover. Fruit is tending to be almost Cubanelle type. Yellow to orange to red.

BANANA PEPPER CULTIVAR DESCRIPTIONS (Cont.)

Surefire

This looks like an excellent variety. Yellow to orange to red. Good fruit set. Excellent foliage cover. Good plant size. Fruit is average size.

Volcano

Excellent fruit set. Yellow to orange to red. Good foliage cover and plant size.

APPENDIX

CUCUMBER GRADES AND DOLLAR VALUES

The grades and dollar values are listed below:

Grade	Size in diameter	Price Per	
		Tonne	(Ton)
1	Up to 2.7 cm (up to 1 1/16")	\$578.71	\$525.00
2	2.7 cm to 3.8 cm (1 1/16" to 1 1/2")	\$272.00	\$246.75
3	3.8 cm to 5.1 cm (1 1/2" to 2")	\$167.83	\$152.25
4	5.1 cm to 5.4 cm (2" to 2 1/8")	\$69.45	\$63.00
Field Run	Up to 5.4 cm (up to 2 1/8")	\$144.68	\$131.25

* Prices obtained from "Agreement and Award for Marketing the 1995 Crop of Cucumbers for Processing" under the Farm Products Marketing Act.

SEED SOURCES

- Asgrow Seed Co., 2605 E. Kilgore Rd., Kalamazoo, MI 49002, USA.
- Burpee Vegetables, W. Atlee Burpee Co., 300 Park Ave., Warminster, PA 14428-0410, USA.
- Enza Zaden, Postbox 7, 1600 AA, Enkhuizen, Holland.
- Ferry Morse Seed Co., P.O. Box 4938, Modesto, CA 95352-4938, USA.
- Harris Moran Seed Co., 3670 Buffalo Rd., Rochester, NY 14624, USA.
- Peto Seed Inc., 2477 Turk Hill Rd., Victor, NY 14564, USA.
- Rogers Seed Co., P.O. Box 4188, Boise, Idaho 83711-4188, USA.
- Seedway Inc., 1225 Zeager Rd., Elizabethtown, PA 17022, USA.
- Stokes Seeds Ltd., P.O. Box 10, St. Catherines, ON L2R 6R6.
- Sun Seeds, 8850 59th Ave. N.E., Brooks, OR 97305-0008, USA.
- Vilmorin Inc., P.O. Box 707, Empire, CA 95319, USA.

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - APRIL 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	4.4	-6.2	0.0
2	5.4	-2.7	0.2
3	13.0	-2.0	2.0
4	8.3	-8.4	0.2
5	0.0	-10.0	0.0
6	11.8	-3.1	3.6
7	1.9	-1.2	0.0
8	5.0	-1.4	2.8
9	4.7	-0.9	5.0
10	4.5	-1.5	0.0
11	17.3	-0.5	0.0
12	13.6	5.7	4.0
13	6.4	3.0	2.0
14	7.1	-1.0	0.0
15	9.5	-2.6	0.0
16	14.9	-3.2	0.0
17	12.0	0.5	0.0
18	14.9	0.8	1.6
19	17.2	5.2	0.0
20	8.8	0.5	0.0
21	18.4	4.9	25.4
22	10.1	3.0	0.0
23	8.8	1.4	0.0
24	10.8	0.0	0.0
25	12.1	1.5	1.4
26	12.0	2.0	1.2
27	19.2	6.4	2.4
28	11.0	4.5	0.0
29	13.7	3.8	0.0
30	12.2	2.7	0.0
Mean	10.3	0.0	51.8
Normal	12.2	1.3	88.2

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - MAY 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	15.0	2.1	0.0
2	16.4	5.5	0.0
3	17.3	5.3	0.0
4	16.6	1.9	0.0
5	19.0	8.4	0.0
6	17.4	4.2	0.0
7	19.0	3.2	0.0
8	14.9	3.2	0.0
9	16.6	8.3	12.4
10	22.4	10.5	15.0
11	16.1	10.3	0.2
12	19.9	10.3	0.0
13	22.3	8.1	0.0
14	24.6	13.4	2.6
15	20.7	12.0	0.0
16	22.6	9.5	0.0
17	20.1	8.4	1.2
18	13.9	7.5	0.6
19	21.4	8.5	0.0
20	22.3	5.1	0.0
21	19.9	8.3	0.0
22	19.3	6.1	0.0
23	24.8	5.5	0.0
24	18.5	12.0	6.6
25	16.4	10.1	1.4
26	22.7	9.2	0.0
27	22.1	9.4	0.0
28	17.8	13.1	12.2
29	17.7	13.2	0.2
30	24.0	12.5	1.6
31	26.0	13.3	0.0
Mean	19.6	8.3	54.0
Normal	18.7	6.5	71.5

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - JUNE 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	24.3	10.9	0.0
2	23.9	17.1	19.0
3	24.4	17.5	65.6
4	24.0	13.2	0.0
5	25.6	11.8	0.2
6	27.0	14.6	0.0
7	28.9	18.1	0.0
8	21.3	9.4	0.0
9	20.9	9.6	0.0
10	23.9	11.7	0.0
11	24.3	13.1	0.0
12	22.6	11.0	0.0
13	25.0	8.5	0.0
14	26.4	11.4	0.0
15	24.3	10.4	0.0
16	25.3	9.3	0.0
17	29.6	13.4	0.0
18	32.4	17.8	0.0
19	34.9	21.1	0.0
20	32.2	19.8	0.0
21	26.8	17.0	0.0
22	28.5	16.4	0.0
23	27.4	16.6	0.0
24	27.4	17.1	0.0
25	28.0	18.6	0.0
26	30.4	19.9	1.6
27	25.0	20.5	5.4
28	26.3	19.7	0.0
29	27.8	19.1	0.6
30	27.1	19.9	0.8
Mean	26.5	15.2	93.2
Normal	24.4	11.9	70.6

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - JULY 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	25.6	14.5	2.8
2	21.1	10.1	0.0
3	23.3	8.8	0.0
4	26.9	13.5	0.0
5	30.1	21.4	6.0
6	26.9	21.1	2.2
7	22.3	13.7	6.2
8	16.4	10.1	0.2
9	22.6	10.0	0.0
10	26.1	13.0	2.4
11	27.9	15.8	0.2
12	26.7	12.9	0.0
13	33.3	16.4	1.0
14	36.8	20.6	0.0
15	36.4	22.9	0.0
16	30.8	22.1	3.0
17	29.4	21.5	0.0
18	26.0	18.0	1.4
19	27.0	15.9	0.0
20	24.5	17.1	0.4
21	26.9	17.9	7.0
22	28.8	15.8	0.2
23	28.3	19.2	5.8
24	26.7	18.6	1.2
25	28.8	18.7	0.2
26	33.3	22.1	10.2
27	27.9	20.4	1.2
28	31.2	21.1	0.0
29	31.5	17.5	0.0
30	31.2	15.8	0.0
31	32.2	14.3	0.0
Mean	28.0	16.8	51.6
Normal	26.8	14.5	77.1

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - AUGUST 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	33.8	19.3	0.2
2	26.9	19.8	0.0
3	30.4	19.9	11.8
4	29.3	22.4	19.2
5	27.4	21.7	2.6
6	26.1	19.0	0.0
7	26.8	18.3	0.0
8	26.2	18.7	0.0
9	26.0	18.8	0.0
10	27.1	18.4	0.0
11	29.7	20.8	40.0
12	29.1	18.0	0.4
13	26.9	15.0	4.4
14	31.3	21.7	1.6
15	32.8	19.5	0.0
16	30.1	20.2	0.0
17	31.4	19.0	0.0
18	32.4	20.9	0.0
19	30.1	17.5	0.0
20	30.1	20.1	0.0
21	30.6	16.2	0.0
22	24.6	13.7	0.0
23	26.8	10.4	0.0
24	25.8	15.4	0.0
25	23.4	11.5	0.0
26	30.6	12.4	0.0
27	21.4	15.4	0.0
28	27.9	14.1	0.0
29	29.8	16.8	0.0
30	26.5	14.4	0.0
31	30.2	16.8	0.4
Mean	28.4	17.6	80.6
Normal	25.6	13.6	78.9

MONTHLY METEOROLOGICAL SUMMARY

SIMCOE - SEPTEMBER 1995

Date	Temperature (°C)		Precipitation (mm)
	Maximum	Minimum	
1	24.2	11.9	0.0
2	23.8	10.0	0.0
3	27.2	15.4	0.0
4	25.7	13.7	0.0
5	29.3	13.4	0.2
6	28.4	16.3	0.0
7	24.1	10.8	5.6
8	15.5	7.5	1.6
9	21.9	7.4	0.2
10	18.4	4.6	0.0
11	21.5	3.8	0.0
12	24.9	7.6	0.0
13	24.5	20.4	3.2
14	21.8	9.5	1.4
15	17.8	6.0	0.2
16	25.5	7.6	0.0
17	19.8	8.6	9.6
18	18.7	4.7	0.0
19	20.6	5.9	0.0
20	14.6	12.1	10.4
21	20.7	13.0	0.4
22	15.7	5.0	1.8
23	15.6	2.0	0.0
24	17.0	2.5	0.0
25	16.7	6.1	0.4
26	19.6	9.0	1.4
27	24.2	10.8	0.0
28	20.9	8.1	0.0
29	22.9	7.8	0.0
30	22.4	13.2	0.0
Mean	21.5	9.2	36.4
Normal	21.6	9.6	82.5