VEGETABLE PRODUCTION RESEARCH REPORT 2007

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Introduction

This report summarizes pickling cucumber, pepper and beet trials conducted at the Department of Plant Agriculture, University of Guelph, Simcoe in 2007. Additional copies of this report or more detailed information on any particular experiment can be obtained by contacting the Department of Plant Agriculture at Simcoe.

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

Acknowlednments

1. We wish to express our sincere thanks to Bick's Pickles (J.M. Smucker Canada Inc.), Seminis, Abbott & Cobb, Harris Moran, Nunhems, Rijk Zwaan and Stokes Seeds, who provided seed and monetary assistance for these cultivar trials. We also acknowledge funding from the Ontario Processing Vegetable Growers.

2. We acknowledge the assistance of Trevor Andres, Liam Ardiel, Brenda Hiltz, Derek Lauszus, Jody Morris, Kayla Rell, Troy Stewart and Carrie Woolley

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Cultural Information

Beets

This trial was conducted on loam soil. Beets were seeded with Almaco cone seeders attached to a John Deere MaxEmerge precision seeder and hand thinned to give an in-row spacing of 2". Beets were harvested on October 10 and November 5, 2007. They were graded by size, counted and weighed for yield results.

Pickling Cucumber

Pickling cucumber cultivar trials were evaluated at the University of Guelph, Simcoe in 2007. Hand-picked trials and the once-over trials were conducted on loam soil. The hand-picked cucumbers were seeded with Almaco cone seeders attached to a John Deere MaxEmerge precision seeder and hand-thinned to give an in-row spacing of 6". The once-over trials were seeded using the Almaco seeders attached to the John Deere MaxEmerge seeder and then thinned to give an in-row spacing of 4". Cultural practices throughout the season were carried out according to recommended procedures and cucumber beetles were controlled with timely sprays of insecticide. The multipack hand harvest trial was harvested eight times. 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 litre barrels with air purging for two weeks. A panel of cucumber industry personnel rated the brined cultivars.

Peppers

All trials were conducted on loam soil. Peppers were established in the field from transplants grown in the greenhouse (128 cell). The plants were transplanted 18" apart, using a RJV600 planter, with rows 40" apart. Detailed cultural information on each experiment is presented with the yield data. The plants in all trials were kept free from insects.

Beet Cultivar Observation Trial, Simcoe, 2007
Harvest # 1

Cultivar	Source	Yield (T/Ac) Grades (cm) Under (< 2.5)	1 (2.5 - 4.1)	2 (4.1 - 6.3)	3 (6.3 - 7.6)	4 (7.6 - 9.5)	OS (9.5 >)	Total*	Defect/ Decay**
Taunus	Bejo	0.1	2.1	12.8	2.0	0.0	0.0	16.9	0.0
Ruby Queen	Harris Moran	0.0	0.3	2.2	3.2	10.0	0.6	16.3	0.0
Kestrel	Chriseed	0.1	1.1	2.4	3.3	4.8	2.1	13.7	0.0
Larka	RZ	0.0	0.4	2.7	2.8	6.1	1.4	13.4	0.9
Detroit Supreme	Stokes	0.3	0.3	3.3	2.6	6.8	0.0	13.3	0.0
Merlin	Chriseed	0.0	0.4	2.6	4.7	5.7	0.0	13.3	0.1
Libero	RZ	0.1	0.4	3.7	3.6	4.0	0.7	12.5	0.0
Zeppo	RZ	0.1	0.5	2.1	4.1	5.1	0.4	12.3	0.8
Nero	Seminis	0.0	0.9	4.1	2.3	4.7	0.0	12.0	0.3
Carillon	RZ	0.1	1.0	5.7	3.1	1.2	0.6	11.7	0.0
Red Cloud	Bejo	0.1	0.2	3.3	3.7	4.4	0.0	11.6	0.0
Chariot	Seminis	0.0	0.4	3.1	3.3	4.7	0.0	11.6	0.4
Akela	RZ	0.0	0.1	2.8	4.0	4.2	0.0	11.1	0.0
Lorna	RZ	0.2	2.3	6.7	0.4	0.0	0.0	9.7	0.0
Mona lisa	RZ	0.1	1.3	3.9	2.3	0.4	0.0	8.1	0.0
Babybeat	RZ	0.1	0.4	3.8	2.7	0.3	0.0	7.2	0.0

Soil Type	: Silt Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
Soil pH	: 6.8	Herbicide	: Pyramin 3.5L/Ac
Seeding Date	: June 13	Harvested	: October 10
Rows	: 0.45 m		
In-row Spacing	: 5cm		
Plant Population	: 161,900/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
**A percentage of beets in the Defect/Decay category can be used for processing.

Beet Cultivar Observation Trial, Simcoe, 2007
Harvest #2

Cultivar	Source	Yield (T/Ac) Grades (cm) Under (< 2.5)	1 (2.5 - 4.1)	2 (4.1 - 6.3)	3 (6.3 - 7.6)	4 (7.6 - 9.5)	OS (9.5 >)	Total*	Defect/ Decay**
Taunus	Bejo	0.1	1.6	11.2	0.9	0.0	0.0	13.8	0.0
Ruby Queen	Harris Moran	0.0	1.0	2.9	2.6	5.5	0.5	12.6	0.0
Larka	RZ	0.0	0.5	2.4	3.5	5.3	0.0	11.8	0.0
Merlin	Chriseed	0.0	0.2	1.9	4.1	4.4	0.0	10.7	0.0
Detroit Supreme	Stokes	0.1	0.5	3.5	2.8	3.3	0.0	10.3	0.3
Zeppo	RZ	0.0	0.2	3.3	2.9	3.9	0.0	10.3	0.3
Kestrel	Chriseed	0.0	0.4	2.5	2.5	2.5	2.2	10.1	0.0
Chariot	Seminis	0.0	0.2	2.3	3.5	3.4	0.0	9.4	0.0
Libero	RZ	0.1	0.6	3.0	2.6	2.1	0.4	8.8	0.0
Red Cloud	Bejo	0.0	0.4	2.7	2.7	3.0	0.0	8.7	0.0
Nero	Seminis	0.0	0.4	3.0	1.3	3.2	0.0	8.0	0.0
Carillon	RZ	0.0	0.9	5.5	1.2	0.3	0.0	7.8	0.0
Loma	RZ	0.1	2.5	4.8	0.3	0.0	0.0	7.7	0.0
Akela	RZ	0.0	0.2	2.3	2.4	2.8	0.0	7.7	0.0
Babybeat	RZ	0.0	0.5	4.3	1.1	0.6	0.0	6.4	0.0
Mona lisa	RZ	0.3	1.4	2.0	0.9	0.0	0.0	4.7	0.0

Soil Type	: Silt Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
Soil pH	: 6.8	Herbicide	: Pyramin 3.5 L/Ac
Seeding Date	: June 13	Harvested	: November 5
Rows	: 0.45 m		
In-row Spacing	: 5cm		
Plant Population	: 161,900/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

**A percentage of beets in the Defect/Decay category can be used for processing.

Yield of Cucumbers From Multipick Trial, Simcoe, 2007

Cultivar	Source	Yield * Grades 1 - 4 T/Ac	$/Ac
Sassy (9465)	Harris Moran	16.5	5,354
Feisty (9464)	Harris Moran	17.1	5,318
Moxie (8460)	Harris Moran	17.8	4,891
Vlasset T	Seminis	15.9	4,838
HMX 6415	Harris Moran	16.3	4,799
MacArthur C	Nunhems	15.5	4,454
Wainwright (NUN 5512)	Nunhems	15.6	4,389
Jackson C	Nunhems	15.2	4,316
HMX 5406	Harris Moran	15.6	4,275
Pershing (1864)	Nunhems	14.4	4,242
EX 04506143	Seminis	14.8	4,240
BCP-015	Harris Moran	14.8	4,199
Pony O	Seminis	14.5	4,142
Classy	Harris Moran	14.0	3,958
Eclipse	Harris Moran	14.1	3,912
Cates (5513)	Nunhems	13.7	3,837
Ballerina (2686)	Nunhems	13.0	3,829
Spunky (0469)	Harris Moran	12.9	3,700
PX 0496429	Seminis	13.8	3,639
Fancipak T	Seminis	12.7	3,617
Powerpack	Seminis	11.2	3,164
PX 04964769	Seminis	12.0	3,108

Soil Type	: Fine Sandy Loam	Plant population	: 18,000 plants/Ac
Soil pH	: 6.4	Fertilizer	: 500 kglha of 27.5-0-0
Planting Date	: May 30	Herbicide	: Roundup Transorb 0.6 L/Ac
Plot Size	: 5' x 30'		: Command 0.4 L/Ac
Rows	: 5'	Harvest Dates	: July 16 - Aug 27, 2007 (8 Total)
Plants	: 6"		

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

Yields of Cucumbers From Simulated Once-over Machine Harvest Trial, Simcoe, 2007

Cultivar	Source	Yield* Grades 1 - 4 T/Ac	$/Ac
Ballerina (2686)	Nunhems	8.6	2,277
Journey (04504229)	Seminis	10.9	2,184
Expedition (04506116)	Seminis	9.5	2,000
Vlaspik	Seminis	8.9	1,877
Vlasspear	Seminis	9.7	1,756
04501043	Seminis	8.5	1,741
04506117	Seminis	9.1	1,681
Pershing (1864) C	Nunhems	7.4	1,614
04506143	Seminis	6.7	1,493
HMX 5406	Harris Moran	7.4	1,436
MacArthur C	Nunhems	6.9	1,339
Classy	Harris Moran	6.1	1,319
Moxie (8460)	Harris Moran	5.9	1,187
Papillon	Seminis	4.6	1,101
Lafayette	Nunhems	4.2	990
BCP-015	Harris Moran	3.2	771
PX 04964729	Seminis	3.5	739
Wainwright (5512)	Nunhems	3.4	738
Jackson	Nunhems	3.3	732
Eclipse	Harris Moran	2.9	685
Feisty (9464)	Harris Moran	2.7	670
Sassy (9465)	Harris Moran	2.6	644
HMX 6415	Harris Moran	2.1	585
Cates (5513)	Nunhems	2.3	563
PX 04964769	Seminis	2.7	444

Soil Type	: Sandy Loam	Plant Population	: 58,000 plants/Ac
Soil pH	: 6.8	Fertilizer	: 500 kg/ha of 27.5-0-0
Planting Date	: June 27	Herbicide	: Roundup Transorb 0.6 L/Ac
Plot Size	: 28" x 30'		: Command 0.4 L/Ac
Rows	: 28"	Harvest Date	: August 13,2007
Plants	: 4"		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.
Note: Oversize. nubs and crooks are not included in yield data.

Brine Stock Quality Evaluation of Pickling Cucumbers

External Quality

Shape (1-5)	1 = blossom endlshoulder 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 - Multipick Trial - Simcoe, 2007

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
Vlasset T	Seminis	3.4	3.0	3.2	3.1	2.9	2.8	2.3	2.9	3.0	100
Feisty (9464)	Harris Moran	3.1	3.0	3.3	3.1	2.9	3.0	2.6	3.1	3.0	100
Eclipse	Harris Moran	3.0	3.0	3.2	3.1	2.9	2.6	3.1	3.2	3.0	100
Spunky (0469)	Harris Moran	3.3	3.4	3.1	3.2	2.9	2.9	2.6	3.2	3.1	100
Pershing	Nunhems	3.5	3.2	3.4	3.2	2.8	2.9	2.9	3.2	3.1	100
Cates (5613)	Nunhems	3.2	3.2	3.2	3.2	3.3	3.3	2.8	3.2	3.2	100
EX 04506143	Seminis	3.8	3.5	3.4	3.1	3.0	2.6	2.7	3.4	3.2	100
BCP-015	Harris Moran	3.2	3.0	3.4	3.3	2.9	3.0	3.4	3.4	3.2	100
Sassy (9465)	Harris Moran	3.6	3.1	3.2	2.9	3.0	3.1	3.3	3.4	3.2	100
HMX 5406	Harris Moran	3.6	3.2	3.1	3.3	2.9	3.0	3.4	3.5	3.3	100
Classy	Harris Moran	3.7	3.2	3.3	3.3	3.0	3.3	3.1	3.4	3.3	100
MacArthur C	Nunhems	3.8	3.2	3.5	3.4	3.3	3.4	3.1	3.6	3.4	100
Jackson	Nunhems	3.6	3.5	3.7	3.3	3.6	2.8	3.2	3.6	3.4	100
Ballerina (2686)	Nunhems	4.0	3.9	4.1	3.6	3.4	3.3	2.7	4.0	3.6	100
Pony O	Seminis	3.4	3.1	3.0	3.0	2.9	2.8	2.6	3.0	3.0	98
PX 04964729	Seminis	2.9	3.1	3.2	3.2	3.2	3.0	3.4	3.4	3.2	94
Moxie (8460)	Harris Moran	3.4	3.2	3.3	3.2	3.4	3.2	3.3	3.5	3.3	94
HMX 6415	Harris Moran	3.4	3.2	3.1	3.3	2.9	3.4	2.7	3.2	3.2	90
Powerpack	Seminis	3.8	3.5	3.4	3.2	2.9	3.0	3.2	3.5	3.3	90
Wainwright (Nun 5512)	Nunhems	3.6	3.2	3.1	3.4	3.1	2.8	2.7	3.3	3.2	88
Fancipak	Seminis	3.2	3.0	3.2	3.3	3.0	2.6	2.5	2.8	3.0	80
PX 04964769	Seminis	3.2	3.1	3 1	3.3	3.1	2.9	3 3	3 3	3.2	74

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 Machine Harvest - Simcoe, 2007

Cultivar	Source	Shape	Ridges & Spines	External Colour	Internal Colour	Firmness	Placenta Size	Seed Size	Overall Quality*	Mean Quality**	% Recovery
XP 04506117	Seminis	2.7	2.7	2.5	2.7	2.8	2.7	2.9	2.8	2.7	100
Cates (5613)	Nunhems	3.5	3.3	2.9	3.2	2.9	2.8	3.0	3.2	3.1	98
Classy	Harris Moran	3.3	3.2	3.2	3.0	3.1	2.8	3.0	3.1	3.1	96
Feisty (9464)	Harris Moran	3.4	3.3	3.5	3.1	3.0	2.8	2.7	3.2	3.1	94
Jackson	Nunhems	3.1	3.1	3.3	3.0	3.1	2.8	3.5	3.2	3.1	92
PX 04964729	Seminis	3.4	3.2	3.4	2.9	2.9	3.3	3.5	3.4	3.3	90
Sassy (9465)	Harris Moran	3.2	3.1	3.8	3.1	3.1	3.0	3.5	3.6	3.3	88
HMX 5406	Harris Moran	3.8	3.1	3.0	3.4	2.9	2.6	2.9	3.3	3.1	84
EX 04506143	Seminis	3.3	3.0	3.3	2.9	3.1	2.5	3.5	3.2	3.1	80
Moxie (8460)	Harris Moran	2.4	2.9	2.6	3.0	3.0	2.4	2.5	2.8	2.7	74
Ballerina (2686)	Nunhems	2.9	3.4	3.4	3.2	2.8	2.8	2.5	3.3	3.0	74
Pershing (1864) C	Nunhems	2.7	3.1	3.1	3.0	2.8	2.3	2.3	2.9	2.8	72
BCP-015	Harris Moran	3.2	3.3	3.2	3.2	2.9	2.6	2.4	3.2	3.0	70
Wainwright (Nun 5512)	Nunhems	3.2	3.4	3.7	3.2	3.2	2.8	2.7	3.4	3.2	64
Eclipse	Harris Moran	3.7	3.0	2.8	2.9	2.7	2.4	2.6	3.0	2.9	60
Vlaspik	Seminis	3.1	2.9	2.8	2.9	2.9	2.6	3.6	3.1	3.0	54
HMX 6415	Harris Moran	3.6	3.5	3.4	3.1	3.0	2.4	2.6	3.6	3.2	54
Papillon	Seminis	3.7	3.1	3.5	3.1	2.7	2.5	2.8	3.3	3.1	52
MacArthur	Nunhems	2.9	2.9	2.9	3.0	3.0	3.2	3.8	3.2	3.1	38
Journey	Seminis	3.4	2.8	2.8	3.1	2.8	2.9	3.3	3.1	3.0	34
EX 04501043	Seminis	3.4	3.2	3.2	3.5	3.0	3.2	3.3	3.4	3.3	34
Expedition	Seminis	3.7	3.3	3.2	3.0	3.1	3.1	3.3	3.4	3.3	32
Vlasspear T	Seminis	3.8	3.5	3.3	3.2	3.1	2.5	2.7	3.4	3.2	20
Lafayette	Nunhems	3.2	3.1	3.4	3.2	3.3	2.9	3.3	3.4	3.2	18
PX 04964769	Seminis	4.0	3.4	3.2	2.7	3.1	3.2	3.8	3.6	3.4	14

Ratings 1 = most acceptable. 5 = least acceptable

*a general overall rating

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

Hot Banana Pepper Cultivar Trial, Simcoe, 2007

Cultivar	Source	Marketable Yield (T/Ac)*						
		> 12.5 cm			< 12.5 cm			
		Red	Breaker	Yellow	Red	Breaker	Yellow	Total
Giant Hungarian Hot	Stokes	2.9	1.0	0.7	0.9	0.6	0.9	6.9
Stoked	Abott & Cobb	2.3	0.9	0.7	0.3	0.6	1.7	6.6
Inferno	Seminis	2.6	1.2	1.6	0.0	0.4	0.6	6.5
Hot Horn	Stokes	1.9	2.8	0.8	0.1	0.3	0.3	6.2
PX 1141-2119	Seminis	2.0	1.0	2.0	0.0	0.2	0.8	6.0
Super Hungarian Hot	Stokes	2.1	1.6	0.6	0.1	0.3	0.4	5.1
3277	Seedway	1.9	0.5	1.5	0.1	0.2	0.5	4.7
Hot Spot	Seminis	1.2	0.4	1.3	0.1	0.2	1.2	4.3
Budapest	Seedway	1.0	1.0	1.0	0.0	0.1	1.2	4.3
SVR 1144-7407	Seminis	0.7	0.9	1.1	0.3	0.5	0.7	4.2
SVR 1144-7328	Seminis	1.3	1.1	1.3	0.0	0.0	0.2	4.0

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 Llha
Seeded	: April 24	Harvested	: September ❚❚
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

Hot Banana Pepper Cultivar Trial, Simcoe, 2007 ([Continued)

Cultivar	Source	Marketable Fruit # Plant	Marketable Fruit Wt. (g)	Yield (T/Ac)* Immature	Yield (T/Ac)* Crooked	Yield (T/Ac)* Culls
Giant Hungarian Hot	Stokes	12	57.2	0.5	1.7	0.7
Stoked	Abott & Cobb	18	36.5	0.3	0.8	0.3
Inferno	Seminis	11	56.5	0.7	0.9	0.6
Hot Horn	Stokes	8	81.1	0.1	1.7	0.9
PX 1141-2119	Seminis	14	41.0	1.0	1.3	0.2
Super Hungarian Hot	Stokes	9	59.2	0.4	1.2	0.3
3277	Seedway	12	40.6	0.5	2.2	0.6
Hot Spot	Seminis	12	35.9	0.8	0.3	0.5
Budapest	Seedway	7	65.6	0.8	0.8	1.7
SVR 1144-7407	Seminis	11	37.3	0.6	0.7	1.0
SVR 1144-7328	Seminis	8	48.4	0.0	1.0	0.7

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 L/Ha
Seeded	: April 24	Harvesled	: September 11
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

Sweet Banana Pepper Cultivar Trial, Simcoe, 2007

Cultivar	Source	Marketable Yield (T/Ac)*						
		> 12.5 cm			< 12.5 cm			
		Red	Breaker	Yellow	Red	Breaker	Yellow	Total
Ethem	Seminis	3.0	1.5	2.4	0.1	0.1	0.8	7.8
Ihlara	Seminis	2.0	1.5	2.9	0.1	0.0	0.5	7.1
Pageant	Seedway	0.7	1.5	1.9	0.0	0.4	2.6	7.0
Sweet Banana Superette	Stokes	3.0	2.1	1.0	0.3	0.2	0.4	6.9
Bounty	Seminis	2.4	1.2	2.5	0.0	0.0	0.3	6.5
Sweet Savannah	Stokes	2.2	1.5	1.0	0.0	0.1	0.3	5.1
Sweet Spot	Seminis	0.9	0.5	2.4	0.0	0.0	0.3	4.1

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 Llha
Seeded	: April 24	Harvested	: September 11
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

Sweet Banana Pepper Cultivar Trial, Simcoe, 2007 (Continued)

Cultivar	Source	Marketable		Yield (T/Ac)*		
		Fruit # / Plant	Fruit Wt. (g)	Immature	Crooked	Culls
Ethem	Seminis	14	55.9	0.6	0.9	0.3
Ihlara	Seminis	13	52.2	1.0	0.7	0.5
Pageant	Seedway	13	56.0	1.1	1.8	0.5
Sweet Banana Superette	Stokes	12	57.5	0.4	1.4	0.7
Bounty	Seminis	9	78.7	0.4	0.6	0.9
Sweet Savannah	Stokes	9	57.8	0.2	2.1	0.3
Sweet Spot	Seminis	8	52.7	0.9	1.4	2.0

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 L/ha
Seeded	: April 24	Harvested	: September 11
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields.

Hot Cherry and Jalapeno Pepper Cultivar Trial, Simcoe, 2007

Cultivar	Source	Marketable Yield (T/Ac)* < 12.5 cm Red	Breaker	Green	Total
SVR 1144-7353	Seminis	0.2	0.6	7.3	8.1
Telica	Abott & Cobb	0.7	0.2	6.0	7.0
Ballpark	Seminis	0.3	0.6	5.4	6.2
Maylon	Abott & Cobb	1.2	0.6	3.9	5.7
Cherry Bomb	Seminis	4.1	0.6	1.1	5.7

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 Llha
Seeded	: April 24	Harvested	: September 11
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields

Hot Cherry and Jalapeno Pepper Cultivar Trial, Simcoe, 2007 (Continued)

Cultivar	Source	Marketable Fruit # / Plant	Marketable Fruit Wt. (g)	Yield (T/Ac)* Immature	Crooked	Culls
SVR 1144-7353	Seminis	41	19.8	0.5	0.1	0.1
Telica	Abott & Cobb	27	26.4	0.8	0.0	0.1
Ballpark	Seminis	29	20.9	0.7	0.2	0.2
Maylon	Abott & Cobb	24	25.2	0.4	0.0	0.1
Cherry Bomb	Seminis	33	18.0	0.3	0.0	0.0

Soil Type	: Loam	Fertilizer	: 325 Kg/Ha of 34-0-0
pH	: 7.3	Herbicides	: Treflan @ 1.5 Llha
Seeded	: April 24	Harvested	: September 11
Transplanted	: June 5		
Plant Population	: 8,990/Ac		

*Yields are for comparative purposes only. Small plot yields may not accurately reflect commercial yields

Cucumber Grades and Dollar Values

Hand Harvest

Grade	Size in diameter	Price Per Tonne	Price Per Ton
1	Up to 2.7 cm (up to 1 1116")	$980.88	$889.66
2	2.7 cm *to* 3.8 cm (1 1116" to 1 112")	$351.58	$318.88
3	3.8 cm to 5.1 cm (1 1/2" to 2")	$241.86	$219.37
4	5.1 cm to 5.4 cm (2" to 2 1/8")	$70.32	$63.78

Machine Harvest

Grade	Size in diameter	Price Per Tonne	Price Per Ton
1	Up to 2.7 cm (up to 1 1116")	$941.05	$853.53
2	2.7 cm to 3.8 cm (1 1/16" to 1 1/2")	$337.30	$305.93
3	3.8 cm to 5.1 cm (1 1/2" to 2")	$232.05	$210.47
4	5.1 cm to 5.4 cm (2" to 2 1/8")	$67.45	$61.18

*Nubs and crooks were paid at the Grade 4 price.

** 5% increase from 2006 prices plus 10% increase to cover a spray programme that minimizes the effects of downy mildew

***Prices obtained from "Agreement and Award for Marketing the 2007 Crop of Cucumbers for Processing" under the Farm Products Marketing Act.

Seed Sources

- Abbott & Cobb, P.O. Box 307, Feasterville, PA 19053-0307, USA
- Bejo Seeds Inc., P.O. Box 859, Oceano, CA 93445, USA.
- Chriseed, P.O. Box 98, Mount Vernon, WA 98273, USA.
- Harris Moran Seed Co., P.O. Box 4938, Modesto, CA 95352, USA.
- Nunhems USA Inc., 1200 Anderson Corner Rd., Parma, ID 83660, USA.
- Seedway Inc., 99 Industrial Road, Elizabethtown, PA 17022, USA.
- Seminis Inc., 800 North Lindbergh Blvd, Saint Louis, MO 63167, USA.
- Stokes Seeds Ltd., P.O. Box 10, Thorold, ON L2V 5E9, Canada.
- Rijk Zwaan USA Inc., 19040 Portola Drive, Suite B, Salinas, CA 93908, USA.

MONTHLY METEOROLOGICAL SUMMARY

University Of Guelph, Simcoe - 2007

Date	April			May			June		
	Temp (°C)			Temp (°C)			Temp (°C)		
	Min	Max	Ppt (rnm)	Min	Max	Ppt (rnrn)	Min	Max	Ppt (rnrn)
1	3.8	15.7	6.8	6.8	11.2	0.6	16.9	28.7	0.0
2	4.2	14.4	0.0	4.1	17.3	0.2	15.7	30.1	0.0
3	0.6	14.8	1.0	6.2	16.7	0.0	17.0	25.7	30.8
4	-3.0	9.7	4.6	10.2	18.5	0.0	16.7	23.0	0.2
5	-6.8	-3.0	0.0	8.2	18.9	0.0	7.9	17.8	0.2
6	-6.1	-3.2	0.0	4.5	16.0	0.0	8.3	17.1	0.2
7	-7.4	-2.6	0.0	3.0	21.2	0.0	7.9	28.0	0.0
8	-5.2	-0.9	1.2	8.0	24.5	0.0	13.0	30.2	5.6
9	-2.5	3.4	0.0	11.6	27.3	0.0	7.9	21.3	0.0
10	-3.0	5.8	0.0	13.4	23.5	1.8	9.8	25.3	0.0
11	-3.0	7.3	6.2	12.9	27.6	0.0	11.2	27.1	0.0
12	1.4	9.5	5.2	6.5	15.5	0.0	15.5	31.4	0.0
13	-0.5	4.6	0.0	4.1	16.2	0.0	18.1	30.2	0.0
14	-2.0	6.6	0.0	3.0	18.0	0.0	15.6	26.2	0.0
15	0.3	6.1	1.4	16.4	27.9	8.6	13.0	24.9	0.0
16	2.1	6.1	2.6	6.8	16.6	3.6	14.3	27.9	0.0
17	3.2	7.6	1.4	5.7	13.9	0.0	17.5	30.0	3.8
18	2.7	7.9	0.0	3.2	16.7	0.0	14.8	29.7	0.0
19	3.0	15.1	0.0	6.3	21.4	4.0	17.6	27.8	8.2
20	3.6	21.0	0.0	5.1	15.5	0.0	12.2	22.8	0.0
21	2.5	20.1	0.0	2.8	15.9	0.0	14.2	26.3	0.0
22	4.8	23.1	0.0	6.8	21.9	0.0	10.6	22.3	0.0
23	9.7	22.6	0.6	10.3	28.1	0.0	8.1	21.7	0.0
24	4.6	14.3	0.0	16.1	30.4	0.0	12.7	27.6	0.0
25	6.1	9.1	12.4	17.1	28.6	0.0	15.0	29.5	0.0
26	5.8	12.1	22.4	12.5	18.3	0.8	17.0	32.0	0.0
27	8.7	15.0	3.6	13.7	22.4	0.2	21.9	29.8	0.0
28	4.8	12.5	1.0	8.4	22.9	0.0	16.4	27.0	0.0
29	5.2	20.0	0.0	10.0	23.7	0.0	11.6	24.7	0.0
30	9.0	17.1	0.2	12.6	29.8	0.0	10.1	25.1	0.0
31				15.8	31.2	0.0			
Mean/Total	1.6	10.4	70.6	8.8	21.2	19.8	13.6	26.4	49.0

MONTHLY METEOROLOGICAL SUMMARY

University Of Guelph, Simcoe - 2007

Date	July			August			September		
	Temp (°C)			Temp (°C)			Temp (°C)		
	Min	Max	Ppt (mm)	Min	Max	Ppt (mm)	Min	Max	Ppt (mm)
1	9.4	20.5	0.0	18.2	32.3	0.0	11.5	23.3	0.0
2	8.1	22.5	0.0	19.2	33.3	0.0	9.5	24.3	0.0
3	11.8	24.7	0.0	16.2	33.2	0.0	13.6	29.0	0.0
4	15.5	19.8	15.8	14.5	28.0	0.0	12.5	26.6	0.0
5	14.7	26.0	10.2	14.8	25.9	1.4	16.1	27.3	0.0
6	15.6	27.3	0.0	20.5	29.1	0.2	15.3	32.1	0.0
7	14.5	29.0	0.0	17.4	25.0	2.4	20.0	29.5	0.6
8	20.5	28.7	0.0	18.1	30.5	0.0	18.4	27.9	0.2
9	20.8	32.2	0.0	15.9	22.4	5.4	15.8	19.4	25.2
10	18.3	32.0	0.0	16.8	28.1	0.0	14.0	23.5	0.2
11	11.7	24.9	0.2	16.0	28.9	0.0	11.0	19.5	17.0
12	10.9	24.4	4.8	15.6	28.7	2.0	9.7	18.3	0.0
13	11.0	23.1	0.0	13.2	27.6	0.0	8.1	20.0	0.0
14	9.4	23.7	2.0	10.1	25.9	0.0	10.6	25.4	3.4
15	13.6	24.7	0.0	18.3	26.4	0.0	4.5	14.5	0.2
16	15.2	26.6	0.0	16.2	29.9	0.0	2.1	16.0	0.0
17	15.8	23.8	2.0	11.7	26.0	0.0	4.8	18.5	0.0
18	15.7	26.3	0.0	9.0	22.4	0.0	8.4	21.4	0.0
19	14.6	27.7	6.8	12.3	17.6	1.0	11.1	24.5	0.0
20	12.4	23.3	0.0	13.8	16.2	7.6	15.7	25.8	0.0
21	10.8	25.0	0.0	14.9	18.2	1.0	14.4	26.6	0.0
22	12.2	26.8	0.0	15.7	24.8	0.0	10.9	24.8	0.0
23	13.6	25.8	2.2	18.2	26.7	31.6	7.0	22.1	0.0
24	15.2	24.5	0.2	20.8	30.6	3.4	7.8	26.2	0.0
25	14.8	25.2	0.0	16.1	25.5	3.6	15.7	29.1	4.0
26	14.6	27.1	0.0	14.0	24.7	0.0	15.2	21.7	12.2
27	17.3	25.9	5.2	14.5	25.4	0.0	13.3	17.3	7.6
28	18.0	28.5	0.0	14.1	27.1	0.0	10.3	19.3	2.4
29	18.3	28.7	0.0	18.2	30.9	0.0	8.4	19.7	0.0
30	15.6	28.2	0.0	14.8	26.2	0.0	8.9	20.5	0.0
31	18.2	31.7	0.0	12.4	26.7	0.0			
Mean/Total	14.4	26.1	49.4	15.5	26.6	59.6	11.5	23.1	73.0