

1988
VEGETABLE TRIAL
REPORT



RIDGETOWN COLLEGE OF
AGRICULTURAL TECHNOLOGY

B. Gillier Engen

R. Wright

TABLE of CONTENTS

	<u>Page</u>
Forward	3, 4, 5
Weather Data	6, 7, 8
Seed Sources	9
 <u>Tomato</u>	
Machine Harvest Trial	11, 12
Screening Processing	13, 14
ADI Screening Processing	15, 16
Co-ordinated Freshmarket	17
Screening Freshmarket	18, 19
 <u>Pepper</u>	
Co-ordinated Processing	21
Screening Processing	22, 23
 Muskmelon	 25, 26
 Snap Bean (processing)	 27
 Chinese Cabbage	 29
 Radish (fall and summer).....	 30
 Glossary	 31

PROCESSING VEGETABLE CROPS - 1988

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General Comments

The transplant season was rather warm with only 45.3 mm of rain in May and 15.0 mm in June which led to a slow plant establishment and reduced early growth in tomatoes and peppers. Stress symptoms were common with most crops.

Total precipitation from April to October differed by 230 mm from that of 1987. Much of the rain came only in small showers that were sporadic and lacked distribution. Environment Canada in its annual report called the '88 summer persistently hot and humid with frequent high winds and sporadic shower activity. This resulted in a delayed harvest date of crops.

Tomatoes

This year a total of 293 cultivars and strains and 427 breeding lines of tomatoes were grown on the R.C.A.T. campus. They were submitted for trial by seed companies and experiment stations. The seedlings were grown in our greenhouses and field set from May 13 to 24, 1988 with a planting distance of 1.5m x 0.6m for freshmarket and 1.5m x 0.3m for processing trials. The trials reported were planted at the Ridgetown College on Brookston clay loam.

In machine harvest trials, 9 advanced and 17 primary cultivars were tested. Seven advanced and 13 primary freshmarket cultivars were tested in a trial co-ordinated by Ron Garton, Agriculture Canada, Harrow, Ontario.

During plant raising, all precautions within reason were taken to obtain healthy plants for field setting. Due to relatively dry growing conditions in May and June the incidence of bacterial speck was low.

Records of plant and fruit characteristics were taken in August and September. Yields were obtained for processing cultivars with a modified Blackwelder harvester. The data given in these tables represent the average of 4 advanced replications and 2 primary. A cultivar rating lower than 3.5 is considered discarded, if not already designated with a "D". The "R" stands for retain, not recommend.

Peppers

In co-ordinated field trials 10 advanced and 15 primary lines were tested at H.E.S., Simcoe and R.C.A.T., Ridgetown. Only the results from Ridgetown will be reported here. In addition 94 cultivars of variable shapes and sizes were submitted for trial by seed companies and public breeders for screening. This year due to a change in staff only measurements of fruit were recorded and yields in the co-ordinated trials.

In the breeding programme at R.C.A.T. the emphasis is on early sturdier, less brittle, more upright plants with no fruit set in the lower 15 cm. Out of 164 F₁ to F₈ populations, 128 specific selections were made.

Seed was planted in the greenhouses during early April into 200 Plastomer trays filled with "Skipper's Mix" and field set on June 1 with a Mechanical carousel transplanter. The plant spacing was 1.0m x 0.45m with 12 plants per plot. The advanced trials were replicated 4 times, the primary twice.

The peppers suffered during June but the heat and increased precipitation in July and August brought renewed vigour to the plants.

Peppers were considered marketable when they were either mature green or turning colour (also called "Rainbow"). All mature green and ripe fruit were harvested on August 23 and September 23, 1988.

Crucifer Crops

Early crops of self-blanching cauliflower, cabbage and broccoli were field set from greenhouse transplants on May 4. The low rainfall in May and June resulted in a crop failure as far as significant data was concerned. Chinese cabbage and radish were field seeded July 21. Radishes were harvested on August 24 and October 19 along with the cabbage.

Snap Beans

Twelve cultivars, replicated 4 times in advanced trials, and 27 green and 6 wax type cvs. in screening trials were field sown June 14 into Fox sandy loam at 60cm row spacing with 5cm seed drop. Harvests were timed to coincide with the highest number of bean pods in a marketable sieve size. Maturity was also determined by using the "Asgrow Snap Bean Maturity Gauge".

Muskmelon

Fifteen cvs. were tested in replicated trials on campus grounds with 35 entries in screening trials. Seeds were sown in cells on May 19 in R.C.A.T. greenhouses and field set on June 10 into black plastic mulch. Plants were set into light clay loam under scorching heat, requiring plants to be watered to prevent dehydration. A management study on mulches was conducted comparing black plastic, black coated paper (biodegradable), spray latex (Polysar) and bare ground.

Acknowledgements

These reports were made possible through the assistance of summer staff Mary Alice Langstaff and Luann Wootton. Their ability to accurately record the various criteria with the desired precision is herewith gratefully acknowledged.

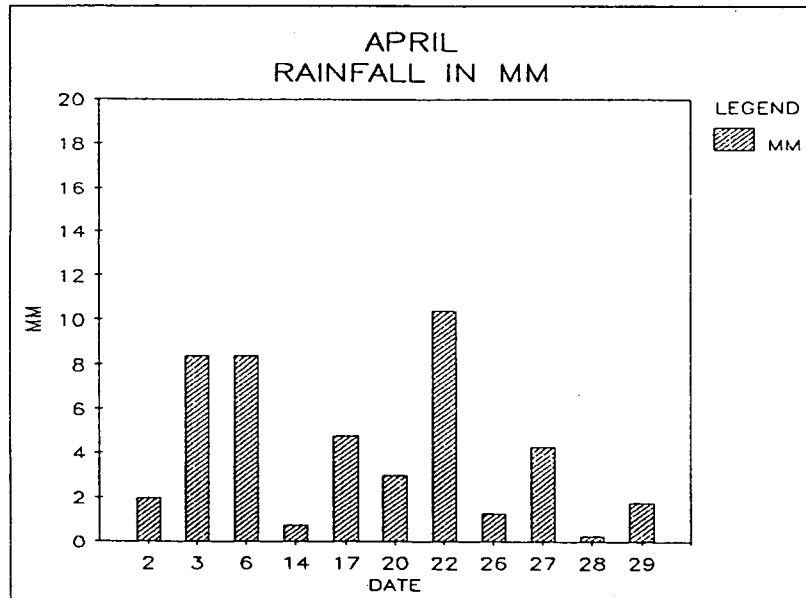
This past April Jo' Muehmer retired from R.C.A.T. after many years of valuable service. Beginning in 1989 there will be a full-fledged breeding programme for tomatoes and peppers at Ridgetown. The cultivar testing will centre on processing tomatoes and peppers only for the next few years. Any queries should be directed to STEVE LOEWEN and his technician Richard Wright. There will also be a vegetable crops management programme conducted by PETER SIKKEMA and myself.

We at R.C.A.T. have enjoyed our association with all the contributors to our research trials and hope our change of direction will not alter this.

Beth

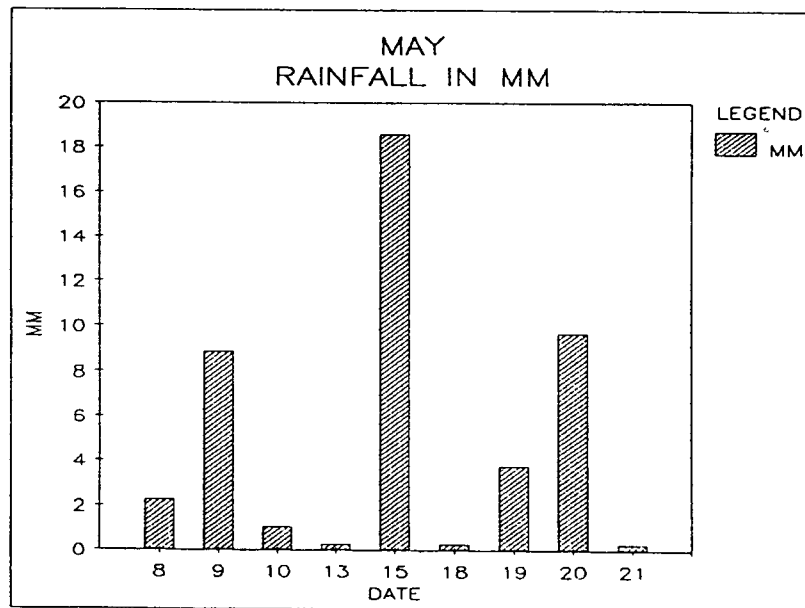
Beth Gillier Eagen
Vegetable Crops Technician
Horticulture and Biology Section
R.C.A.T.

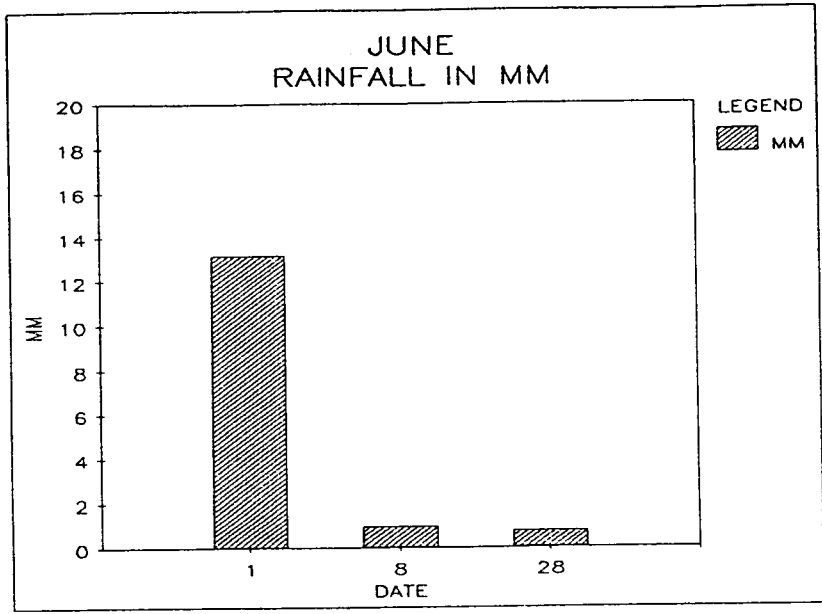
1988 WEATHER DATA



Total Rainfall: 45.5 mm
 Mean Maximum : 13.0 °C
 Mean Minimum : 3.0 °C
 Mean : 8.0 °C

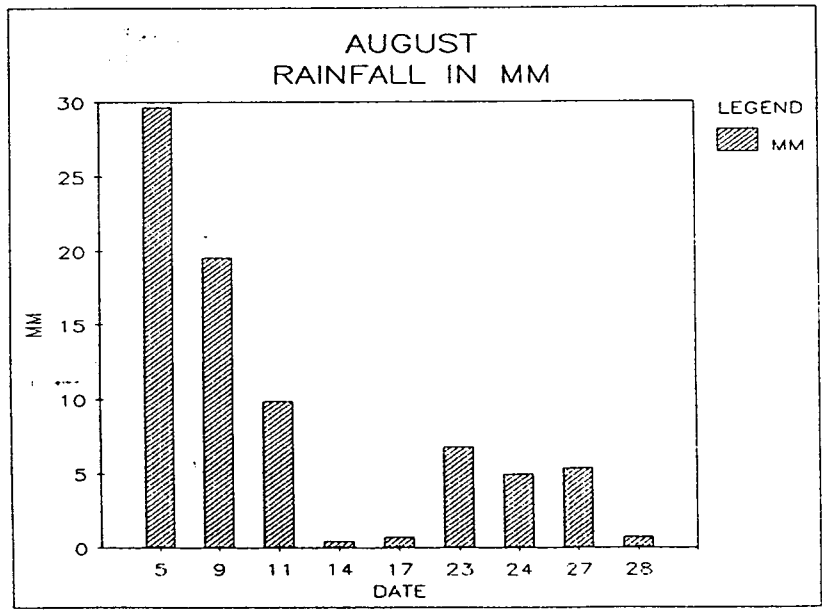
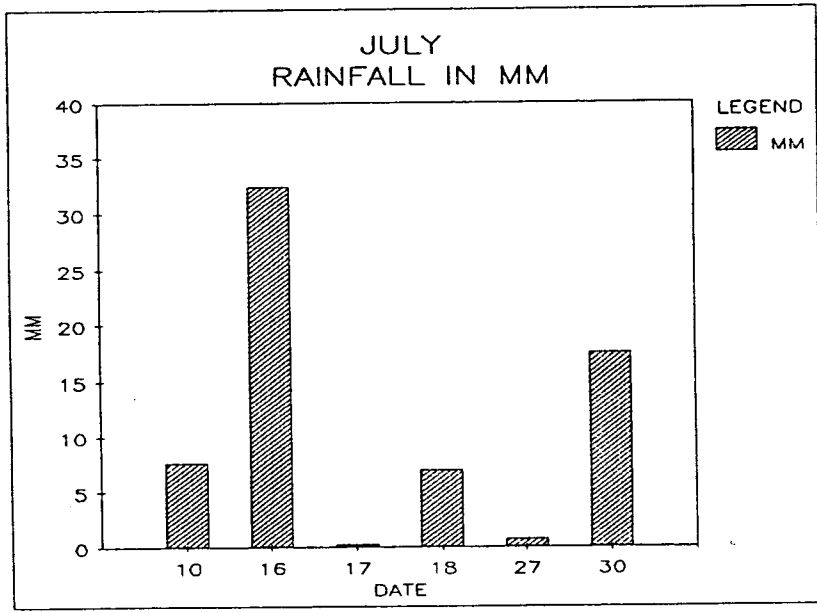
Total Rainfall: 45.3 mm
 Mean Maximum : 21.5 °C
 Mean Minimum : 10.0 °C
 Mean : 16.0 °C



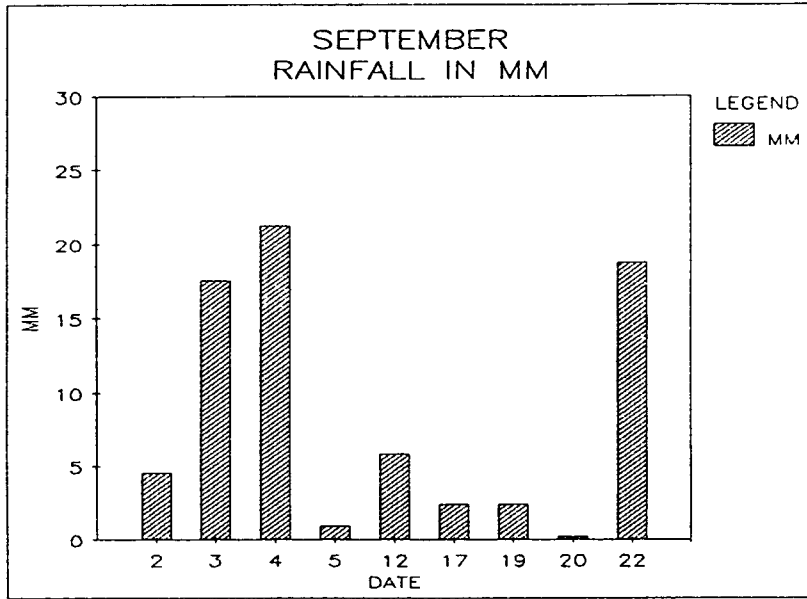


Total Rainfall: 15.0 mm
 Mean Maximum : 27.0 °C
 Mean Minimum : 12.5 °C
 Mean : 19.5 °C

Total Rainfall: 65.8 mm
 Mean Maximum : 31.0 °C
 Mean Minimum : 17.5 °C
 Mean : 24.0 °C

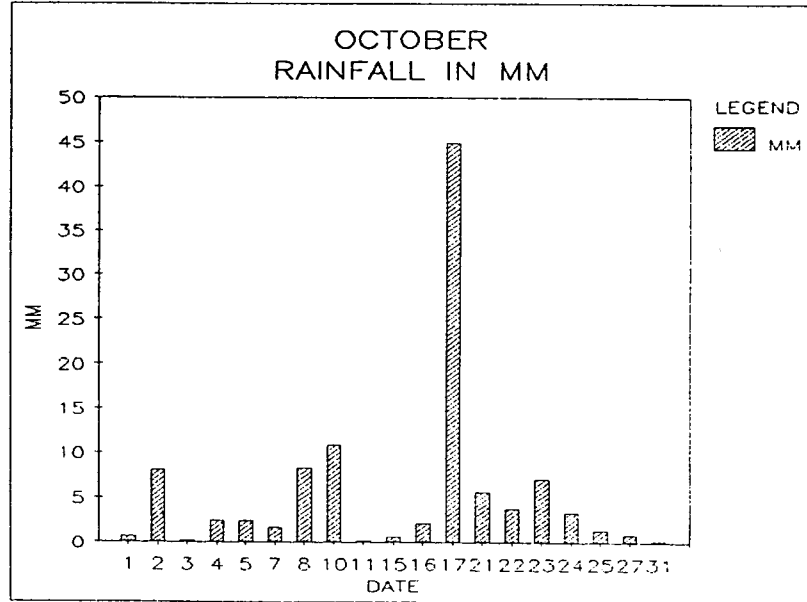


Total Rainfall: 78.5 mm
 Mean Maximum : 29.0 °C
 Mean Minimum : 17.5 °C
 Mean : 23.0 °C



Total Rainfall: 74.5 mm
 Mean Maximum : 22.0 °C
 Mean Minimum : 11.5 °C
 Mean : 17.0 °C

Total Rainfall: 108.0 mm
 Mean Maximum : 12.0 °C
 Mean Minimum : 4.0 °C
 Mean : 8.0 °C



1988 SEED SOURCE LIST

1. Abbott & Cobb, Box 307, Feasterville, PA USA 19047
2. Agriculture Canada, Harrow, Ont.
3. Agway Seed Div., Box 4741, Syracuse, NY USA 13221
4. Arco Seed Co., see Sun Seeds
5. ADI Inc., Box 643, Carmel, IN USA 46032
6. Asgrow Seed Co., Hort. Dept., Kalamazoo, MI USA 49001
7. BHN Research, 810 Oak Blvd., Naples, FL USA 33999
8. W. Atlee Burpee, 300 Park Ave., Warminster, PA USA 18974
9. Campbell Soup Co. Ltd., Napoleon, OH USA
10. Del Monte Corp., Box 36, San Leandro, CA USA 94577-0406

11. Dept. of Hort., U. of Maryland, College Park, MD USA 20742
12. Dept. of Hort., Michigan State U., E. Lansing, MI USA 48823
13. Dept. of Hort., Purdue U., E. Lafayette, IN USA 47907
14. Dept. of Hort., Ohio State U., Wooster, OH USA
15. DeRuiter Seed, Box 20228, Columbus, OH USA 43220
16. Dominion Seed House, Georgetown, Ont. L7G 4A2
17. Ferry Morse Seed Co., Box 4938, Modesto, CA USA 95352-4938
18. Harris Moran Inc., 3670 Buffalo Rd., Rochester, NY USA 14624
19. H.J. Heinz Co. Ltd., Leamington, Ont.
20. Instituto Agronomico, Box 28, 13-100 Campinas Estado, Sao Paulo, Brazil

21. Johnny's Select Seed, Box 701, Albion, Maine USA 04910
22. Midwest Seed Growers, 10559 Lackman Rd., Lenexa, KS USA 66219
23. Mikado Seed Growers Co. Ltd., 1203 Hoshikuki Chiba City, Japan
24. Mos Zaden, Box 54, 2590 AB's, Gravenzande, Holland
25. Mountain Hort. Crops, 2016 Fanning Bridge Rd., Fletcher, NC USA 28732-9628
26. Neuman Seed, Box 1530, El Centro, CA USA 92244
27. Nichols Garden Nursery, 1190 N. Pacific Hwy., Albany, OR USA 97321
28. Nickerson Zwaan bv, Box 19, 2990 AA Barendrecht, Holland
29. Northrup King Ltd., Box 1827, Gilroy, CA USA 95020
30. Nunhem Zaden, Box 4005, 6080 AA, Haelen, Holland

31. NY State Agr. Res. Centre, Box 642, Geneva, NY USA 14456
32. Ohlsens Enke, DK 2630 NY mUnkegaard, Copenhagen- Taastrup, Denmark
33. Omstead Foods Ltd., Wheatley, Ont. NOP 2P0
34. Petoseed Co., Box 4206, Saticoy, CA USA 93003
35. Royal Sluis Inc., 1293 Harkins Rd., Salinas, CA USA 93901
36. Reed's Seeds
37. Seeds of Tomorrow, Box 2145, Davis, CA USA 95616
38. Seedway Inc., Box 250, Hall, NY USA 14463
39. Siegers Seed Co., 7245 Imlay City Rd., Imlay City, MI USA 48444
40. Smithfield Exp. Farm, Box 340, Trenton, Ont.

41. Stokes Seeds Ltd., Box 10, St. Catharines, Ont. L2R 6R6
42. Sun Seeds, 9800 Fairview Rd., Hollister, CA USA 95023
43. Shepherd's Garden Seeds, 7389 W. Zayante rd., Felton, CA USA 95018
44. Takii Co. Ltd., Box 7, Kyoto, Central Japan
45. Territorial Seed Co., Box 27, Lorane, OR USA 97451
46. Jack VanKlaveren Lyd., Box 910, St. Catharines, Ont. L2R 6Z4
47. Vesey Seed Co., York, PEI COA 1P0
48. Samuel Yates Seeds, Withyford Dr., Macclesfield, Cheshire, SK 10 2BE England
49. Dept. of Hort., N.C. State U., Box 7609, Raleigh, NC USA 27695-7609
50. Research Centre for Agrobotany, I.P.P.O. H2766, Tapiozole, Hungary
51. George Park Seed Co., Box 31, Greenwood, SC USA 29647
52. Ottis Twilley Seed Co., Box 65, Trevese, PA USA 19047
53. Ishihara Seed, c/o Stoller Chemical Co., 3228 S. Service Rd., Burlington, Ont.
54. Bejo Zaden, Box 9. Noordscharwoude, Holland L7N 3H8

1988 ADVANCED MACHINE HARVEST TOMATO TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Yield t/ha	Rating	Remarks
ST-154	40	3.5	3.5	4.5	3.3	4.0	4.0	3.8	3.5	80	26.3	3.3	D, puffy
O 7983	14	3.8	4.3	5.0	3.3	4.0	4.0	4.3	3.5	70	42.5	3.8	R
O 8245	14	3.8	3.8	5.0	3.0	3.5	3.8	3.3	3.8	55	41.7	3.5	R
Diablo	18	3.5	4.0	4.5	3.5	4.0	4.0	4.0	3.5	65	36.9	3.8	R, thick wall
O 7814	14	4.0	3.5	5.0	3.3	4.0	4.0	3.5	3.8	70	42.8	3.5	R?
H 2653	19	3.5	3.5	5.0	3.5	4.0	3.5	3.0	2.8	45	27.2	3.0	D, puffy
FM 6203	17	4.5	4.3	4.8	3.3	4.0	4.0	3.3	3.0	90	36.0	3.3	D, puffy, thick wall
H 722	19	4.0	3.5	5.0	3.3	3.8	3.5	3.0	3.5	55	43.9	3.5	R
Pur 861	13	3.5	4.0	5.0	3.5	4.5	4.5	3.8	4.0	60	36.3	3.8	R

Seeded: April 7
Transplanted: May 13
Harvested: Sept. 13 & 27

1988 PRIMARY MACHINE HARVEST TOMATO TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Yield t/ha	Rating	Remarks
H2653	19	3.5	4.0	5.0	3.0	3.5	4.0	4.0	3.5	50	33.8	3.5	D, puffy
FM 6203	17	3.8	4.0	5.0	3.5	4.0	4.0	3.3	3.0	70	33.9	3.5	D
H 722	19	3.5	4.0	4.0	4.0	3.5	5.0	4.0	3.8	55	42.5	3.8	R
H 7038	19	2.8	3.3	5.0	3.0	3.8	4.0	3.0	3.8	65	25.2	3.0	D
H 8020	19	2.5	3.8	3.5	3.0	3.5	3.0	3.0	2.0	50	21.2	2.8	D
84-190-2-3	2	3.8	3.3	5.0	3.3	4.0	3.8	3.3	3.3	50	53.4	3.3	D, doesn't MH
O 8442	14	2.8	3.5	5.0	2.8	3.0	3.0	2.5	2.0	60	21.7	2.8	D
Malinta	9	3.8	3.8	5.0	3.5	3.5	4.0	3.0	2.8	70	32.7	3.3	D
Maumee	9	3.5	3.3	5.0	3.5	4.0	3.8	3.8	2.5	100	47.2	3.5	D
Easy Winner	9	3.5	4.0	5.0	3.3	3.8	3.8	3.3	3.5	75	31.7	3.5	D, puffy, fenceposting
Easy Harvest	9	3.8	3.5	5.0	3.8	3.5	4.5	3.8	3.3	65	58.4	3.5	R
O 8383	14	3.0	4.0	5.0	3.5	3.5	4.0	3.5	4.0	80	22.2	3.3	D, doesn't MH
84-193-5-1	2	3.3	4.0	5.0	4.0	4.0	4.0	4.0	4.0	75	31.8	3.8	R
H 6315	19	4.0	4.0	4.5	3.5	4.0	3.5	4.0	3.8	60	26.9	3.5	R, twin row
PSX P 696	34	3.8	4.0	5.0	3.5	3.5	3.5	3.5	3.8	50	42.1	3.8	R
PSR 2196	34	3.5	4.0	5.0	3.8	4.0	4.0	3.5	3.8	55	40.6	3.8	R
PSR 2296	34	3.8	3.8	5.0	3.5	4.0	4.5	4.0	4.5	45	44.7	4.0	R
84-204-4-3	2	3.8	4.3	5.0	3.8	3.5	4.0	4.0	4.0	45	47.8	3.8	R

Seeded: April 7
Transplanted: May 13
Harvested: Sept. 13 & 27

1988 Lab Results for MACHINE HARVEST TOMATO TRIAL

Cultivar	Agtron	pH	Soluble Solids %	Total Solids %
<u>Advanced</u>				
O 7814	25.0	4.15	5.15	6.0
H 2653	30.0	4.21	5.1	6.3
FM 6203	24.0	4.24	5.2	6.0
H 722	31.0	4.49	5.0	5.3
Pur 861	23.5	4.14	5.2	5.9
O 7983	35.0	4.12	5.2	6.3
O 8245	33.0	4.72	4.9	5.8
Diablo	31.0	4.11	5.05	5.3
<u>Primary</u>				
H 7038	31.0	4.18	5.0	5.6
H 8020	40.0	4.15	4.9	6.0
84-190-2-3	25.0	4.33	4.9	5.3
O 8442	31.5	4.13	5.05	6.3
Malinta	24.0	4.27	4.9	5.5
Maumee	35.0	4.38	5.0	5.8
Easy Winner	28.5	4.44	4.95	5.2
Easy Harvest	26.5	4.52	4.9	5.3
O 8383	24.5	4.13	5.05	5.9
84-193-5-1	26.0	4.26	4.9	5.2
H 6315	48.0	4.41	4.85	
PSX P 696	24.5	4.22	4.95	5.4
PSR 2196	27.5	4.12	5.1	6.4
PSR 2296	23.0	4.23	5.1	6.4
84-204-4-2	23.0	4.41	4.65	4.8

1988 SCREENING PROCESSING TOMATO TRIAL
(cultivars with possibilities)
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Rating	Remarks
IND 886	13	3.5	4.0	5.0	4.0	3.8	4.0	4.0	4.5	55	4.0	
IND 885	13	3.5	4.0	5.0	3.8	3.8	4.0	4.0	4.5	50	4.0	invert BE
Brigade	6	4.5	4.5	5.0	3.5	4.5	3.8	4.0	3.8	70	4.0	late
9478	19	3.8	3.5	5.0	3.5	4.0	4.0	4.0	4.0	65	4.0	j+
La Rossa	29	3.8	4.0	5.0	3.5	4.0	3.5	4.0	4.0	85	4.0	puffy
Del Oro	18	3.5	4.0	5.0	3.8	3.8	3.8	4.0	4.0	75	4.0	
PSR P 1196	34	3.8	4.5	5.0	3.8	4.5	4.5	4.0	4.0	70	4.0	early
PSR 4196B	34	3.5	4.5	5.0	3.3	3.8	4.0	4.0	3.8	65	4.0	fenceposting
Wolfpack 1	49	4.0	3.8	5.0	3.5	3.8	5.0	4.0	4.0	80	4.0	
7E 842	5	3.8	4.0	4.5	3.8	4.5	4.5	4.0	4.0	70	4.0	puffy, fenceposting
EG 50	5	3.5	3.8	3.5	4.0	4.0	4.0	4.0	4.0	90	4.0	j+
XPH 5300	6	3.5	4.0	4.0	3.3	4.0	3.5	3.8	4.0	95	3.8	
IND 883	13	4.0	4.0	5.0	4.5	4.0	4.0	3.5	4.0	75	3.8	late, invert BE
Hyb. NS 204	26	3.5	3.8	3.5	3.3	4.0	3.5	4.0	4.0	60	3.8	
La Rossa	43	3.8	3.8	5.0	3.5	4.0	3.5	4.0	3.8	90	3.8	j+
Omnipak	18	3.8	3.8	4.5	3.5	4.5	4.5	4.5	4.0	75	3.8	
NY 246	31	3.0	4.0	4.0	3.3	4.0	3.3	4.0	3.8	100	3.8	invert BE
PSR P 30496	34	3.8	3.5	5.0	3.3	4.0	5.0	4.0	4.0	90	3.8	some BER
PSR P 1596	34	3.8	3.8	5.0	3.8	4.0	4.5	3.5	3.5	55	3.8	yellow veining
EG 8	5	4.0	3.5	4.5	4.0	4.5	4.0	4.0	3.5	70	3.8	j+
FM 40338	5	4.3	4.0	5.0	3.3	4.0	3.5	4.0	4.0	60	3.8	puffy
K9-3	50	4.3	3.0	3.5	3.0	3.5	4.0	4.0	4.0	125	3.5	invert BE
Milano	43	3.5	3.8	5.0	3.5	3.5	3.5	3.8	4.0	90	3.5	v. late
Advantage	18	4.3	3.5	4.3	3.5	4.0	4.0	3.5	4.0	115	3.5	hollow core
Earlypear	5	4.0	4.0	5.0	3.0	4.0	3.5	3.5	3.8	60	3.5	puffy, early
PSR P 31796	34	4.0	4.0	5.0	3.5	3.5	4.0	3.5	4.0	60	3.5	black core
PSR P 6296	34	3.5	3.8	5.0	3.0	4.0	3.3	3.5	4.0	100	3.5	fenceposting
PSR P 1996	34	4.0	4.5	5.0	3.8	4.5	4.5	3.5	3.5	75	3.5	
9230	19	3.5	4.0	3.8	3.8	3.5	3.8	3.5	4.0	75	3.5	
UC 82B	39	4.0	4.5	3.5	3.5	3.5	3.5	4.0	3.5	75	3.5	fenceposting

Seeded: April 14
Transplanted: May 13

1988 SCREENING PROCESSING TOMATO TRIAL
 (entries unsuited in 1988)
 R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Season	Genes	Shape	Size (g)	Remarks
9664	19	ve	usp	plum	65	twin row, YT
PSR P 28993	34	e	uspj+	plum	55	fence posting, YT
EG 44	5	e	uspj+	plum	70	" " , "
EG 4	5	e	usp	plum	80	YT, blotch, cracks
PSR P 3494	34	e	uspj+	egg	60	blotch
K 12-5	50	e	u+spj+	oval	75	sev. YT, blotch, cracks
US 68	5	e	uspj+	globe	70	sev. YT & blotch
Exp. 99	37	m	usp		80	blotch, green jelly
Kora	32	m	usp	globe	115	sev. cracks
Reliant	29	m	usp	heart	95	sev. YT & blotch
ADI 007	5	m	usp		65	blotch
K62-68	50	m	usp		70	blotch, sev. cracks
HM 3075	18	m	uspj+	heart	95	blotch, radial cracks
1643	42	m	usp	plum	80	blotch, puffy
1810	19	m	usp	elong.	90	sev. YT, radial cracks
PSR P 3396	34	m	usp	plum	70	blotch
PSR P 2096	34	m	usp	sq. round	60	sev. YT & blotch
PSR P 996	34	m	usp	heart	50	blotch
PSR P 3196	34	m	usp	plum	85	YT, uneven ripening
PS P 51294	34	m	usp	plum	70	blotch, conc. cracks
O 8444	5	m	usp	round	70	YT, green jelly
Ind. 884	13	l	usp		70	YT & blotch, puffy, rough
Hyb. NS 202	26	l	uspj+		105	sev. YT & blotch, cracks
Hyb. NS 203	26	l	usp	globe	105	sev. cracks, soft
Peelette	18	l	uspj+		75	blotch

Seeded: April 14

Transplanted: May 13

1988 ADI PROCESSING TOMATO TRIAL
(cultivars with possibilities)
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Rating	Remarks
7H 251		4.0	4.0	5.0	3.5	4.0	4.0	4.0	4.0	60	4.0	v. late
P 8704		4.3	4.0	5.0	3.3	3.5	3.5	4.0	4.0	45	4.0	size?
O 8243		4.0	4.0	5.0	3.5	4.5	4.0	5.0	4.5	55	4.0	late, puffy
7E 843		4.0	3.8	5.0	3.5	4.0	5.0	4.0	4.0	60	4.0	green jelly, late
PSX P 696		3.8	4.0	5.0	3.8	4.0	3.8	4.0	4.0	60	4.0	late
7E 841		3.8	4.0	5.0	3.8	4.0	4.0	4.0	4.0	60	4.0	
O 8556		3.3	3.5	5.0	4.0	4.0	4.5	4.0	3.8	70	3.8	twin row, early
EXCL		3.8	3.8	5.0	3.8	3.8	3.5	4.0	4.0	65	4.0	
PUR 861		3.5	4.0	5.0	3.5	4.0	4.0	4.0	4.0	55	3.8	
7E 916		3.8	3.8	5.0	3.5	4.0	4.0	3.8	4.0	80	3.8	
5-7115		3.8	4.0	5.0	3.5	4.0	4.0	4.0	3.5	60	3.8	late
P 8702		3.8	4.0	5.0	3.8	3.8	3.3	4.0	3.8	45	3.8	v. late, yellow jelly
O 7814		3.8	4.0	5.0	3.3	4.0	4.0	4.0	4.0	55	3.8	invert BE
O 7983		3.5	3.8	5.0	3.5	4.0	4.0	4.0	4.0	60	3.8	invert BE
70853		3.8	4.3	5.0	3.0	4.0	3.8	3.8	3.8	55	3.8	
H 1810		3.5	4.0	5.0	3.8	4.0	3.5	3.8	4.0	50	3.8	
NVH 4761		4.0	3.8	5.0	3.8	4.0	3.8	4.0	3.5	70	3.8	green jelly
O 8696		3.5	4.0	5.0	3.5	4.0	4.0	4.0	3.5	65	3.8	invert BE
O 8567		3.8	4.0	5.0	3.5	4.0	4.0	4.0	4.0	75	3.8	twin row
O 8444		3.8	3.5	5.0	3.8	3.5	4.0	3.8	4.5	50	3.5	green jelly
P 2196		3.5	4.3	5.0	3.3	3.5	3.8	3.5	3.8	55	3.5	
H 6315		3.8	4.0	5.0	3.3	3.8	3.8	3.5	3.5	50	3.5	late, puffy
70864		3.5	4.5	5.0	3.3	3.5	3.5	4.0	3.8	50	3.5	
70861		3.8	4.3	5.0	3.5	4.0	3.5	3.5	3.8	50	3.5	
61811		3.5	4.0	5.0	3.3	4.0	3.3	3.8	3.5	55	3.5	
7E 926		3.8	4.3	5.0	3.3	3.8	3.3	4.0	3.5	60	3.5	
Early Pear		3.5	4.0	5.0	3.3	3.8	3.3	3.5	3.8	65	3.5	some BER, j+
7E 842		3.8	3.8	5.0	4.0	4.0	3.8	4.0	3.5	60	3.5	

Transplanted: May 24

1988 ADI PROCESSING TOMATO TRIAL
 (entries unsuited in 1988)
 R.C.A.T., Ridgetown, Ont.

Cultivar	Season	Genes	Size (g)	Remarks
H 8020	ve	usp	70	sev. YT & blotch
O 8442	e	usp	45	Sev. YT & blotch, green jelly
70831	me	usp	50	blotch
H7151	me	usp	60	sev. blotch
70863	me	usp	70	sev. blotch & YT
O 8590	me	usp	50	sev. YT & blotch, invert BE
P 28893	m	uspj+	70	sev. YT & blotch
70838	m	usp	50	blotch, fenceposting
7H 364	m	usp	45	blotch, fenceposting
7H 187	m	usp	60	blotch
PSR 3396	m	usp	65	blotch
H 8703	m	usp	50	sev. YT & blotch
70859	m	uspj+	55	sev. YT
70839	m	usp	50	sev. YT & blotch
70833	m	usp	60	sev. blotch
70872	m	usp	50	sev. YT & blotch
7E 908	m	usp	55	blotch, puffy
FM 83738J	m	usp	75	sev. blotch
H 7145	m	usp	65	sev. blotch & YT, BER
61833	m	usp	50	Sev. YT & blotch
70821	m	usp	60	sev. YT & blotch, white int.
7H 252	l	usp	45	blotch
70842	l	usp	55	sev. YT & blotch
61804	l	usp	60	sev. YT & blotch
O 8245	l	usp	70	sev. YT & blotch
70846	l	usp	40	sev. YT & blotch
PSX 51294	l	usp	80	sev. YT & blotch, invert BE
70873	l	usp	45	blotch
70885	l	usp	55	sev. YT & blotch
7E 921	l	usp	60	blotch, BER, puffy
61817	l	usp	50	sev. YT & blotch
NVH 4762	l	uspj+	75	sev. blotch
61825	l	usp	65	sev. blotch & YT
70875	l	usp	50	sev. YT & blotch
70883	l	usp	40	sev. YT & blotch, white placenta
70880	l	usp	60	blotch
US 68	vl	uspj+	55	sev. blotch
FMX 930J	vl	usp	60	sev. blotch
70841		usp	45	sev. blotch
5-7388		uspj+	60	sev. blotch
SF 154		usp	80	invert BE, blotch, puffy
61830		usp	45	sev. blotch
FMX 920		usp	90	sev. blotch
7870		uspj+	80	fenceposting, poor colour
70845		usp	50	sev. YT & blotch
P 8711		usp	55	sev. blotch
FM 40338		usp	60	sev. BER
70870		usp	50	poor colour and plant

Transplanted: May 24

1988 ADVANCED FRESHMARKET TOMATO TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Season	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Yield t/ha	% Small Grade	Rating	Remarks
Fresh Pak	18	e	3.5	3.3	3.5	3.8	4.5	3.8	3.5	4.0	200	46.4	36	3.5	R
Pik Red	18	m	3.3	3.3	3.3	3.3	4.0	3.8	3.5	3.0	170	41.6	32	3.3	D
Celebrity	1	m	3.5	3.5	3.0	3.8	3.8	3.5	3.8	4.0	185	52.1	35	3.5	R
Carmen	34	m	3.5	3.3	3.0	3.8	3.8	3.8	3.3	3.8	170	39.2	41	3.3	D
Mountain Pride	6	l	4.0	3.8	3.8	3.5	3.5	3.8	4.0	4.0	155	51.0	45	3.8	R
Pik Rite	18	e	3.3	3.5	3.5	3.3	3.8	3.3	3.5	3.0	180	47.2	39	3.5	D, BER
Ole	18	m	3.8	3.5	3.5	3.3	3.8	3.3	3.8	4.0	150	50.8	38	3.5	R

Seeded: April 7
Transplanted: May 16
Harvested: Aug. 8 to Sept. 9

1988 PRIMARY FRESHMARKET TOMATO TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Season	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Yield t/ha	% Small Grade	Rating	Remarks
Fresh Pak	18	e	3.8	3.5	3.8	3.8	4.0	4.0	3.5	3.8	175	46.4	36	3.8	R
Pik Red	18	m	3.5	3.3	3.5	3.8	4.5	3.8	3.8	3.5	200	41.6	34	3.3	D
NC 8230	25	m	3.8	4.0	3.8	3.8	3.5	3.5	4.0	4.0	175	76.1	41	4.0	R
NC 8288	25	l	3.5	3.8	3.5	3.5	3.8	3.3	3.5	3.8	145	43.8	46	3.5	D
NC 86210	25	l	3.8	3.5	3.8	4.0	4.0	3.3	4.0	3.5	195	68.0	40	3.8	R, invert BE
NC 86211	25	l	3.8	3.8	4.0	4.0	4.5	3.3	4.0	4.0	180	55.4	43	4.0	R
Bingo	17	m	3.3	3.5	3.3	3.3	4.0	3.0	3.3	3.5	185	44.6	32	3.3	D
PSR 52486	34	m	3.3	3.5	3.3	3.3	4.5	3.5	3.3	3.8	210	53.5	34	3.3	D, invert BE
PSR 52986	34	m	3.5	3.8	3.0	3.8	3.8	3.5	3.8	3.5	215	46.7	30	3.5	D
Pilgrim	34	m	3.5	3.8	3.5	3.5	3.8	3.0	3.5	2.8	130	50.6	39	3.0	D
84-091-698	2	m	3.8	3.5	3.8	3.3	3.5	3.5	3.5	2.0	165	51.3	49	3.0	D
84-093-538	2	m	3.8	3.8	3.5	3.8	4.0	3.5	3.5	3.3	165	44.1	41	3.3	D
84-103-664	2	l	3.3	3.8	3.5	4.0	4.0	3.8	3.0	3.5	145	41.6	48	3.3	D
Ultra-Sweet	41	e	2.5	3.5	3.8	3.0	4.5	3.0	4.0	4.0	165	50.1	35	3.5	R, HG

Seeded: April 14
Transplanted: May 16
Harvested: Aug. 8 to Sept. 9

1988 SCREENING FRESHMARKET TOMATO TRIAL
(cultivars with possibilities)
R.C.A.T., Ridgetown, Ont.

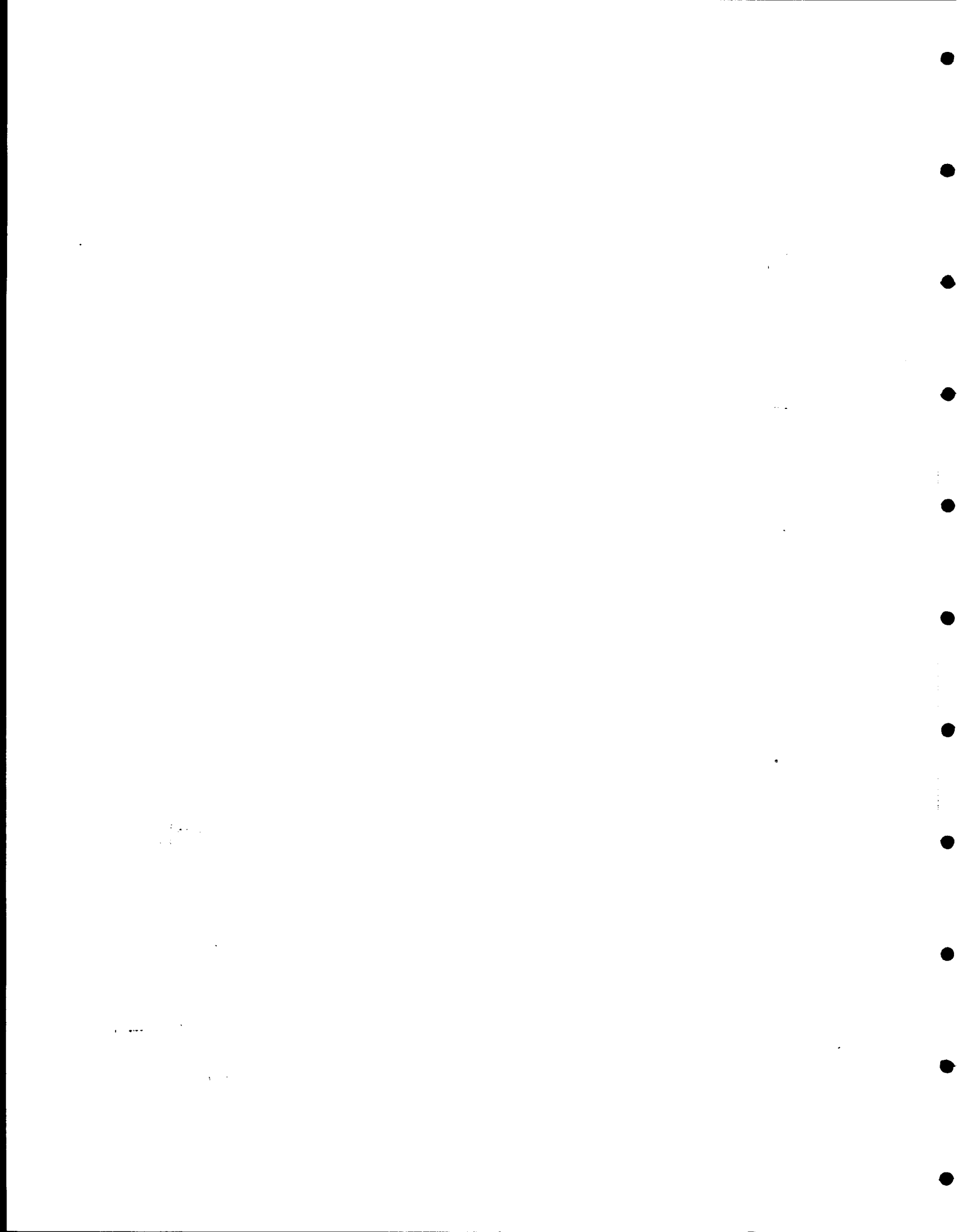
Cultivar	Seed Source	Plant	Firmness	Cracks	Core	Structure	Int. Colour	Yellow Top	Blotch	Size (g)	Rating	Remarks
NC 87380	25	3.5	4.0	5.0	3.8	4.0	3.5	4.0	4.0	140	4.0	
Mountain Pride	6	3.8	4.0	5.0	3.5	4.0	3.5	4.0	4.0	200	4.0	
NC 86171	25	4.0	4.0	4.0	3.5	4.0	3.5	4.0	4.0	160	4.0	
HMX 2807	18	3.8	3.8	4.0	3.8	4.0	3.5	3.8	4.0	150	4.0	
Blazer	43	3.5	3.8	4.0	3.8	4.5	4.0	3.8	3.5	145	4.0	
B 2440	7	3.8	3.8	3.5	3.3	3.5	3.5	4.0	4.0	145	4.0	j+
Pilgrim	39	3.5	4.0	4.0	3.0	4.0	3.8	4.0	4.0	150	4.0	
Mountain Pride	39	3.5	3.5	3.8	3.8	4.5	3.8	4.0	4.0	170	4.0	
Castlette	3	3.0	3.5	4.0	4.0	3.0	3.5	4.0	4.0	30	4.0	cherry
NC 8230	25	3.5	3.8	3.8	3.8	3.8	3.5	3.8	4.0	200	3.8	
NC 86211	25	3.8	3.8	4.0	3.8	4.0	3.8	4.0	4.0	165	4.0	late
NC 86210	25	3.8	3.8	4.0	3.8	4.5	3.5	4.0	3.8	175	4.0	
MTH 781	41	3.5	3.5	3.8	3.8	3.5	3.3	3.8	3.8	100	3.8	
Cavalier	41	3.8	4.0	3.5	3.5	4.5	3.5	3.8	3.8	155	3.8	
Stokes Pak VFN	41	3.5	3.5	3.5	3.8	4.0	3.3	3.5	4.0	160	3.8	early
Super Beefsteak	41	3.0	3.8	4.0	3.3	3.5	3.3	3.8	3.8	180	3.8	
Beefsteak	43	3.0	3.8	4.0	3.5	3.8	3.5	4.0	3.5	200	3.8	
Ole	43	4.0	3.8	3.5	3.8	4.0	3.5	3.5	3.8	170	3.8	
Pik Red	43	3.8	4.0	3.8	3.5	4.0	3.5	3.5	3.8	170	3.5	j+
Santa Clara	20	3.5	4.0	5.0	3.0	4.0	3.3	4.0	3.5	90	3.5	
Pacific	6	4.0	3.8	3.5	3.0	3.8	3.5	3.5	3.8	165	3.8	
Ida Gold	21	3.5	3.5	4.0	4.0	3.5	3.5	3.5	3.5	40	3.5	gold, v. early
XPH 5129	6	3.5	3.8	4.0	3.8	3.5	3.5	3.5	3.5	175	3.5	
Mountain Delight	25	3.8	4.0	4.0	3.8	4.0	3.5	3.8	3.5	195	3.8	
NC 87127	25	3.8	4.0	5.0	3.5	4.5	3.3	3.8	4.0	190	3.8	
NC 8642D	25	3.8	3.8	5.0	3.5	3.3	3.5	4.0	4.0	40	3.8	cherry, early
NC 87353	25	3.5	3.8	4.0	3.3	4.5	3.5	3.8	4.0	160	3.8	
Sunhybrid 105	42	3.5	4.0	3.8	3.5	4.0	3.8	3.5	3.8	180	3.8	
Baja	29	3.8	3.8	3.5	3.8	4.0	3.0	3.8	3.8	175	3.8	
Vegas	17	3.5	3.8	3.5	3.5	4.0	3.8	3.8	4.0	130	3.8	
Red Star	3	3.5	4.0	3.5	3.0	3.8	3.5	4.0	4.0	200	3.8	
Pilgrim	3	3.8	3.5	4.0	3.5	3.8	3.3	4.0	3.8	170	3.8	
B 2346	7	4.0	3.5	3.5	3.8	3.5	3.5	3.8	4.0	120	3.8	
BHN 48	7	3.5	4.0	4.0	3.5	3.5	3.3	4.0	4.0	170	3.8	
BHN 73	7	3.8	3.8	3.8	3.3	3.8	3.3	4.0	4.0	180	3.8	
Hyb. NS 262	26	4.0	3.8	3.3	3.8	4.0	3.8	3.8	3.5	175	3.8	
Flash	6	3.8	3.5	4.0	3.0	3.5	3.3	3.5	3.5	200	3.5	
Valerie	39	3.3	3.5	3.3	3.0	4.0	3.8	3.5	3.5	200	3.5	
B 2436	7	3.8	3.5	3.8	3.0	3.8	3.5	3.8	4.0	150	3.5	j+
B 89	7	3.5	3.5	3.8	3.8	3.5	3.8	3.5	3.5	125	3.5	
Summer Flavour 4200	1	3.5	3.8	3.8	3.0	3.5	3.8	3.5	4.0	200	3.5	
Super Red	3	3.3	3.5	3.5	3.0	4.5	3.8	4.0	3.8	140	3.5	late
Sunray	18	3.0	3.5	3.8	3.5	3.8		4.0	3.5	175	3.5	orange, thick wall
Teresa	18	3.5	3.5	4.0	3.5	4.0	3.3	3.8	4.0	150	3.5	thick wall
Valerie	29	3.5	3.5	3.5	3.0	4.0	3.8	3.5	3.5	210	3.5	early
Jet Star	46	3.5	3.8	3.8	4.0	4.0	3.5	4.0	4.0	175	3.8	
Hyb. Pink #12	46	3.3	3.8	3.5	3.5	3.5	4.0	4.0	3.8	140	3.8	late
Castleking	42	3.5	4.0	3.8	3.5	3.8	3.3	4.0	3.5	170	3.5	
Sunhybrid 101	42	3.0	3.5	4.0	3.0	4.0	3.3	4.0	4.0	140	3.5	
Sweet Million	51	3.0	3.0	4.0	4.0	3.3	3.8	3.8	4.0	30	3.8	cherry
Willamette	27	3.5	3.8	3.8	3.0	4.0	3.5	4.0	4.0	135	3.8	
Oregon Eleven	45	3.3	3.5	3.5	3.8	4.0	4.0	3.5	4.0	30	3.5	cherry, v. early
Piedmont	25	3.8	3.8	4.0	3.8	4.5	3.5	4.0	3.5	150	3.5	late
NC 86255	25	3.8	3.8	3.8	4.0	4.5			4.0	145	3.8	yellow
NC 8288	25	3.5	4.0	4.0	3.5	4.5	3.5	3.5	3.5	190	3.5	
Floramerica	41	3.5	3.8	3.0	3.5	4.0	3.5	3.5	3.5	150	3.5	

Seeded: April 14
Transplanted: May 16

1988 SCREENING FRESHMARKET TOMATO TRIAL
(entries unsuited in 1988)
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Season	Genes	Shape	Size (g)	Remarks
Oregon Spring	45	ve	usp	oblate	110	sev. YT, soft
Kootenai	45	ve	utspd	heart	60	sev. YT, soft
MTH 789	41	ve	usp	globe	70	blotch
Summer Flavour 4000	1	e	utsp	globe	190	YT, blotch
Summer Flavour 500	1	e	utspj+	oblate	170	YT, blotch
B 2435	7	e	utspj+	globe	140	sev. YT & cracks
B 2348	7	e	uspj+		130	blotch
B 2345	7	e	utspj+	globe	130	sev. YT & blotch, soft
B 2342	7	e	utspj+		120	sev. YT, soft
NIZ 53-1020	28	me	utsp	oblate	180	YT, cracks
Early Temptation	47	ve	utsp	round	70	sev. YT & cracks
Marbi	32	e	ugsp	heart	160	sev. YT
XPH 5551	6	me	utsp		180	blotch
Oregon Spring	21	e	uspj+	oblate	155	YT, rough, cracks
Whirlaway	21	me	utsp	oblate	145	YT, cracks
Vicki VFNT	37	e	uspj+	round	200	YT, cracks
NIZ 53-1011	28	e	usp	oblate	170	YT, cracks
Red Express	41	me	utspj+	round	140	sev. YT & blotch
Summer Flavour 6000	1	me	utsp	globe	170	soft, cracks
Tough Boy	44	m	utspj+	round	120	no set conc., soft
Big Set	47	m	utspj+		155	cracks, YT
Roulette	17	m	uspj+	globe	190	cracks, YT
Whirlaway	17	m	utsp		190	sev. YT, cracks
Viva	18	m	utsp	heart	150	rough
Regency	18	m	utsp	heart	160	blotch
Valerie	3	m	usp		160	cracks, YT
Red Express	3	m	utsp	round	175	sev. YT & blotch
Summer Delight	8	m	utsp	round	210	sev. YT, cracks
BHN 63	7	m	utspj+		150	sev. YT, cracks
Palace	44	m	utsp+		160	blotch
NIZ 53-1008	28	m	utsp	heart	180	YT, cracks
Hermitage	42	m	ugspj+	globe	180	blotch
Pink Delight	46	m	utsp+jty		190	sev. blotch
Nepal	21	m	utspj+	round	175	YT, soft
NC 87175	25	m	usp	round	205	blotch
NC 87194	25	m	usp	oblate	185	blotch
BHN 38	7	m	uspj+	oblate	150	soft, poor colour
BHN 36	7	m	utsp	round	190	YT, tough to cut
Hyb. 724	6	m	utsp	round	170	sev. YT, cracks
Sunny	6	m	utspj+	round	150	sev. YT & blotch
Red Express	39	m	utsp		140	sev. YT, cracks
Yellow Stuffer	46	l	utsp+		130	v. rough
Gator	6	l	utsp	globe	170	blotch
NC 87408	25	l	usp	globe	150	blotch
NIZ 53-1017	28	l	usp	oblate	190	blotch, cracks
Granola	30	l	utsp	heart	160	sev. YT & blotch
Angela Gigante	20	l	utsp+j+		75	blotch
Hyb. Pink # 6	46	l	utsp+jty		100	cracks, no conc.
Muril	30	l	utsp	oblate	160	no set conc., soft.

Seeded: April 14
Transplanted: May 16



1988 ADVANCED PEPPER TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Length (cm)	Width (cm)	Wall (mm) Thickness	Size (kg)	Yield t/ha	Remarks
Mayata	35	12.5	7.5	7.0	270	24.02	
Four Corners	17	10.5	7.0	7.0	210	25.25	late
Lady Bell	18	9.0	6.5	6.0	210	29.8	
Big Belle	17	9.0	7.0	6.5	230	26.54	
Belle Star	17	8.0	7.5	8.0	180	28.2	
Jupiter	29	7.0	7.0	5.0	170	24.58	late
Bell Tower	29	10.5	7.5	5.0	280	24.61	
Bell Captain	34	10.5	6.5	5.0	200	25.58	
Bell Boy	16	8.5	7.0	7.0	190	25.13	
Emerald Giant	29	9.5	7.5	8.0	190	25.24	late
Gedeon	29	9.5	7.0	5.0	170	24.76	

Seeded: March 31

Transplanted: May 31

Harvested: Aug. 23 & Sept. 23

1988 PRIMARY PEPPER TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Length (cm)	Width (cm)	Wall (mm) Thickness	Size (kg)	Yield t/ha
Hybelle	18	8.5	6.0	5.0	150	36.16
Olympic	6	7.0	7.0	4.0	160	23.04
MA 79259	35	10.0	7.0	5.0	170	33.44
Shamrock	6	9.0	7.0	5.0	180	31.28
Summer Sweet 860	1	8.0	7.5	6.0	215	23.92
FMX 988	17	9.0	5.5	5.0	155	23.92
Plutona	15	9.0	7.5	3.0	160	22.4
HMX 5662	18	9.0	6.5	6.0	160	23.52
Ringer	21	11.5	7.5	9.0	230	30.32
85-2034	28	8.0	6.5	7.0	165	31.28
Mission Belle	17	8.0	7.0	7.0	190	35.84
Domino	6	11.5	6.5	5.0	170	41.36
Valley Giant	29	8.0	7.0	6.0	200	29.36
Galaxy	29	11.5	7.5	7.0	270	34.0
Liberty Belle	1	9.5	6.5	7.0	180	24.16

Seeded: March 31

Transplanted: May 31

Harvested: Aug. 23 & Sept. 23

1988 SCREENING PEPPER TRIAL
R.C.A.T., Ridgetown, Ont.

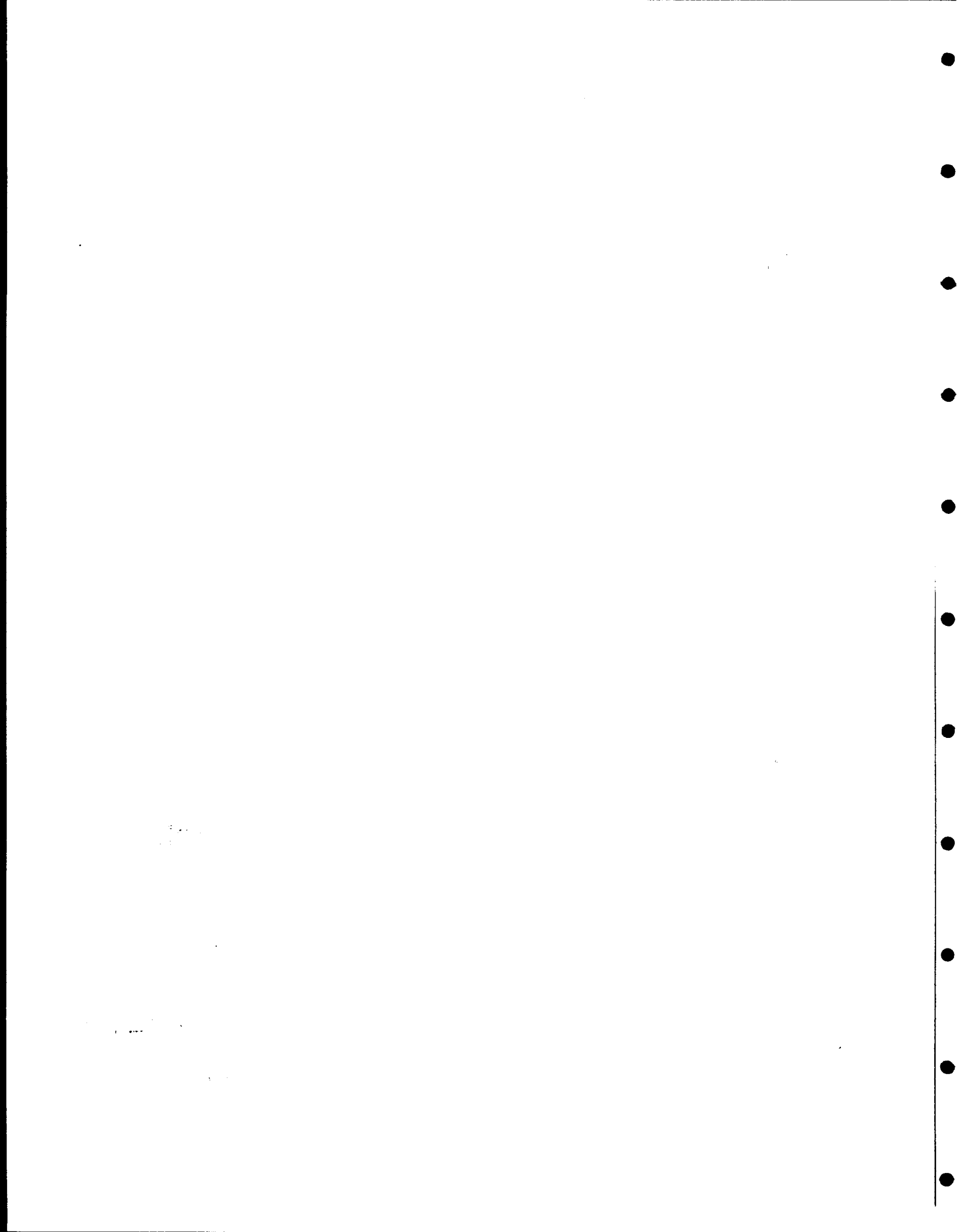
Cultivar	Source	Length (cm)	Width (cm)	Wall (mm) Thickness	Size (kg)
Superset	16	9.0	7.0	5.0	150
Big Bertha	16	13.5	7.5	6.0	215
Argo	41	10.5	7.5	5.0	200
Superset	41	7.5	7.0	5.0	130
Niagara Giant	41	11.0	8.0	6.0	165
Ma Belle	41	8.0	8.0	6.0	150
Giant Szegedi	41	11.0	6.0	6.0	100
Jetta	24	14.5	7.0	6.0	165
Martel	24	8.0	7.0	5.0	135
Midal	24	15.0	5.0	6.0	100
Parma	24	9.5	9.0	6.0	165
LM 7161	24	12.0	7.0	4.0	165
Capri	24	8.0	8.0	5.0	150
LM 400	24	9.0	8.5	8.0	150
Brupa	24	10.0	8.0	6.0	215
Ascot	24	11.0	9.5	7.0	230
Jumbo Sweet	44	13.5	6.5	6.0	185
Georgia	44	9.0	8.0	5.0	130
Wonder Bell	44	8.5	7.5	6.0	150
Ace	44	10.0	8.0	5.0	100
New Ace	44	11.0	7.0	4.0	150
#125 804	10	3.5	2.5	5.0	20
MI 221	12	13.5	2.5	4.0	30
MI 600	12	10.0	5.0	5.0	65
Medeo	15	10.0	8.0	7.0	130
Tenno	30	16.0	8.0	6.0	230
Zico	30	9.5	7.0	5.0	115
California Wonder	8	9.0	8.0	7.0	200
BUX 571	8	8.0	9.0	6.0	185
BUX 7096	8	8.0	7.5	6.0	165
Cadice	3	10.5	7.5	5.0	185
Midway	18	9.0	8.0	6.0	165
Hybelle	18	10.0	8.5	6.0	165
HMX 5661	18	10.0	7.0	6.0	165
HMX 3650	18	13.0	7.5	5.0	150
HXP 3651	18	11.5	7.5	6.0	165
HXP 3647	18	8.5	6.0	6.0	100
Prima Bell	42	10.0	7.0	6.0	150
Emerald Giant	29	6.5	7.0	5.0	100
NVH 3053	29	6.5	8.0	4.0	105
Italia	21	14.5	5.0	4.0	80
Tarlo	21	9.0	6.0	7.0	80
Lucia	28	7.0	7.0	6.0	130
Adra	1	11.5	6.5	7.0	185
Summer Sweet 820	1	8.0	8.5	6.0	130
Summer Sweet 850	1	7.5	8.5	6.0	165
Golden Bell	45	9.0	8.5	5.0	110
Gold Crest	21	9.0	6.5	7.0	130
Golden Summer	21	8.5	7.5	6.0	150
Migold	12	10.5	6.5	6.0	100
Golden Belle	18	10.5	6.5	6.0	150
Honeybelle	18	16.0	6.5	6.0	150
Orobelle	29	8.5	8.0	6.0	200
Goldie II	41	13.0	6.0	8.0	130
Sweet Chocolate	21	10.0	6.0	4.0	165
Italian Sweet	3	16.5	4.0	5.0	100
Rumanian Wax	18	12.0	5.5	7.0	100
Key Largo	18	18.0	5.0	4.0	130
Italian Sweet	45	16.0	4.0	4.0	80
Top Banana	45	16.0	3.0	4.0	35

1988 SCREENING PEPPER TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Length (cm)	Width (cm)	Wall (mm) Thickness	Size (kg)
Giant Yellow Banana	41	12.0	4.0	4.0	35
Golden Cayenne	41	11.0	1.5	3.0	25
Purple Bell	41	7.0	7.0	5.0	100
Hung. Yellow Sweet	41	20.0	4.0	4.0	85
Cherry Hot	41	2.5	3.0	5.0	20
Super Sweet Cherry	41	3.0	3.0	4.0	15
Hercules Yellow	41	10.0	6.5	6.0	130
Golden					
Delgado	15	9.5	8.0	6.0	165
Chili Jalapeno Hot	27	5.0	2.5	3.0	30
Anaheim TMR 23	27	15.0	4.0	2.0	30
Yatsafsa	27	5.0	0.5	1.0	10
Type 3723	24	11.5	2.5	2.0	40
Kreta	24	10.0	1.0	1.0	30
Surefire	3	13.0	3.0	3.0	30
Grand Rio 66	18	6.0	7.0	5.0	165
Hot Portugal	18	16.0	3.0	2.0	50
Super Cayenne	46	8.0	1.0	1.0	15
Super Stuff	41	10.0	5.5	5.0	300
Giant Szegedi	41	10.0	6.0	6.0	300
Hot Hung. Pickling	41	12.0	3.5	5.0	55
Hungarian Mild	41	15.0	4.5	5.0	100
Hung. Hot Hyb.	41	15.0	3.0	4.0	65
Hung. Hot Hyb. Long	41	15.5	3.0	4.0	60
Hung. Hot Stuffing	41	10.0	7.0	5.0	85
11021	15	9.0	7.5	6.0	150
Flavour Fry	1	14.0	5.0	4.0	100
Memphis	29	9.0	7.5	8.0	185
Belmont	6	10.0	8.0	8.0	200
XPH 5544	6	11.0	9.0	5.0	200
Jupiter Elite	39	9.0	7.0	6.0	215
Rebel Bell	39	9.5	8.0	6.0	235
Jalapa	39	6.5	2.0	4.0	30

Seeded: April 1

Transplanted: June 1



1988 ADVANCED MUSKMELON TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Shape	Netting	Ridges	Flavour	Flesh/Seed	Flesh/ Rind	Seeds	Texture	Size (kg)	Yield t/ha	Rating	Remarks
Gold Star	18	4.0	3.5	3.0	3.3	4.0	4.0	4.0	3.5	1.7	24.5	3.5	D
Nova	29	4.0	4.0	3.5	3.5	3.8	3.8	3.5	3.8	2.3	25.4	3.8	R
Star Performer	1	3.0	4.0	3.0	3.5	3.5	3.5	4.8	3.0	1.2	15.2	3.0	D
Summet	6	4.0	3.8	4.0	3.5	4.0	3.5	4.0	4.0	1.5	19.5	3.8	R
Earli-gold	21	4.5	4.0	3.5	4.0	3.8	4.0	3.5	3.0	1.5	21.5	4.0	R
Early Dawn	18	4.5	4.0	3.8	3.5	3.5	3.5	4.5	3.5	2.2	22.5	3.8	R
HXP 3592	18	3.3	4.0	4.0	4.0	3.5	3.0	3.3	4.0	2.1	22.8	4.0	R
Aragon	6	3.5	4.0	3.3	3.8	4.0	4.3	4.0	3.5	2.3	23.1	3.8	R, v. late
Laguna	6	4.0	4.0	3.0	3.5	3.8	4.5	4.0	3.5	2.3	19.8	3.5	D
Patrician	17	4.0	3.5	3.5	4.0	3.5	3.3	4.0	4.0	1.5	16.6	3.8	R
All Star	18	3.8	4.0	3.5	3.5	3.3	3.0	3.5	3.3	1.4	22.1	3.3	D
Burpee Hyb.	8	4.0	3.8	4.0	4.0	3.5	3.5	3.3	3.8	2.1	20.3	4.0	R
Hymark	1	3.0	4.0	3.0	3.8	3.5	4.0	4.0	3.5	1.9	18.5	3.8	R, tough rind
Canada Gem	41	3.5	4.0	3.8	4.0	3.0	4.0	3.5	3.5	2.2	22.7	4.0	R, sweet
Harper Hyb.	41	3.5	3.5	3.0	3.8	3.5	3.8	4.0	3.3	2.0	22.6	3.5	D

Seeded: May 19
Field set: June 10
Harvested: Aug. 12 to Sept. 6

1988 SCREENING MUSKMELON TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Shape	Netting	Ridges	Flavour	Flesh/Seed	Flesh/ Rind	Seeds	Texture	Size (kg)	Yield t/ha	Rating	Remarks
Saticoy	39	4.0	3.8	4.0	4.0	3.5	3.0	4.0	3.5	2.3	16.8	3.5	D
Columbia	39	4.0	4.0	3.8	4.0	3.5	3.5	4.0	3.0	2.0	15.4	3.5	R, yield?
Road Runner	39	3.5	4.0	4.0	4.0	3.8	3.5	3.5	3.3	1.8	25.2	2.8	R, pulpy
Pulsar	39	3.5	3.3	3.8	4.0	3.8	4.0	4.0	3.5	2.0	23.9	3.8	R
Earlisweet	41	3.5	3.8	3.3	3.5	3.3	3.8	5.0	3.3	1.3	20.3	3.5	D
Sugar Salmon	41	4.0	3.3	3.8	3.3	3.5	3.8	5.0	3.5	2.2	22.5	3.3	D
Grande Gold	41	4.0	4.0	3.8	3.0	4.0	4.0	4.5	3.5	1.5	23.0	3.5	D, late
Pulsar Hyb.	41	3.8	3.3	3.8	3.3	3.3	3.0	4.0	3.5	2.0	22.1	3.0	D
Eastern Star	41	3.5	3.0		3.8	3.5	3.5	3.8	3.8	2.0	14.3	3.3	D, ugly, strong musk
Grande Gold	42	3.5	4.0	3.5	3.3	4.0	4.0	5.0	3.5	1.6	19.3	3.5	D, soft
Sunshine	17	3.5	4.5	3.0	3.5	4.0	4.5	4.5	3.5	1.3	23.1	3.8	R, crisp
HMX 5609	18	3.0	2.0	1.0	3.5	3.5	3.5	3.5	3.5	2.8	22.0	3.5	D
Morning Dew	18				honeydew						15.6	2.5	D, ext. late, sev. cracks
Easy Rider	18	3.5	3.5	2.5	3.0	3.5	3.8	3.5	3.5	1.7	30.2	3.0	D, coarse, bland, pale int.
Superstar	18	3.5	3.5	4.0	4.0	3.5	3.5	3.3	3.5	3.1	26.4	3.8	R
Honeyrock	46	3.5	3.5	4.0	4.0	3.5	3.8	4.0	3.5	2.3	17.1	3.5	R, yield?, late, strong smell
Earli-Dew	46	3.5	2.0	2.0	2.0	3.5	3.5	5.0		1.6	18.7	3.0	D
Sweet Dream Hyb.	8	4.0	3.0	3.0	2.5	4.0	4.0	5.0		3.0	28.7	3.0	D, honeydew
Marygold	11	4.0	1.0	1.0	2.0	3.5	3.5	5.0		1.7	21.1	3.0	D, casaba, v. late
Sakata's Res. Joy	45									1.5	18.5	2.5	D, v. late, cracks-insects
Ambrosia	43	3.5	4.0	3.0	3.5	3.5	3.0	4.0		2.6	19.1	3.5	D, tough rind
Columbia	43	4.0	4.0	4.0	4.0	3.3	3.5	4.0	3.5	2.2	23.6	4.0	R
Flyer	21	3.0	3.0	3.0	3.0	4.0	4.0	5.0	3.0	0.8	20.8	3.0	D, splits before ripe
Savour	21									0.5		2.0	D, ext. late
Rocky Sweet	21	3.5	4.0	3.0	3.0	3.5	4.0	5.0		1.8	14.5	3.0	D, honeydew, v. late
Road Runner	22	4.0	4.0	4.0	4.0	3.5	3.5	3.5		2.1	26.3	4.0	R
Pulsar	22	3.5	3.3	4.0	3.5	3.3	3.5	3.5		3.0	33.9	3.5	R
Eastern Star Hyb.	1	4.0	3.3	4.0	3.3	3.3	3.3	3.3		2.9	27.2	3.0	D
Market Star Hyb.	1	3.5	3.0	4.0	3.3	3.0	3.0	3.8	3.0	1.5	20.4	3.3	D, coarse, tough
XPH 5361	6	4.0	4.0	4.0	3.5	3.5	4.0	4.0		2.7	32.2	3.8	R, sweet
XPH 5362	6	4.5	3.8	4.0	3.0	3.5	3.5	4.0		2.5	32.5	3.5	D, bland
Carnival	6	3.8	3.5	3.8	3.8	4.0	4.5	5.0		2.7	17.4	3.5	R, yield?
Concorde	6	4.0	4.0	4.0	3.5	3.3	3.8	4.0		2.8	18.1	3.5	D, too sweet, yield?
Top Flight	1	4.0	3.5	2.5	3.5	3.5	3.3	4.5		2.0	21.9	3.5	D, too late
Top Score	1	3.8	3.5	2.0	3.5	4.0	4.5	4.0		1.2	25.3	3.8	R
Conquistador	29	4.0	4.0	3.5	2.8	3.3	3.8	3.5		1.3	16.1	3.0	D, pale int.

Seeded: May 19
Field set: June 10
Harvested: Aug. 12 to Sept. 6

1988 MUSKMELON/MULCH MANAGEMENT STUDY
R.C.A.T., Ridgetown, Ont.

Treatment	Size kg	Early Yield t/ha	Total Yield t/ha	Source	Remarks
Black plastic	2.43	2.80	24.15	Windsor Factory Supply	
Black coated paper (biodegradable)	2.63	2.89	24.95	Greenup	tears easily while applying and suffers more bird damage
Latex Spray mulch	1.90	0	19.72	Polysar	messy to apply, degrades according to weather conditions, can damage clothing permanently
Bare ground	2.15	0	21.20		

Cultivar: Nova - Northrup King
Seeded: May 19
Field Set: June 10
Harvested: Aug. 12 - Sept. 12

There was no significant difference in the yields of the
4 treatments but there was a 2 week difference in the 1st
harvest between the black mulches and the other 2 treatments.
There were no studies on the economic factors of each treatment.

1988 ADVANCED PROCESSING SNAPBEAN TRIAL
R.C.A.T., Ridgetown, Ont.

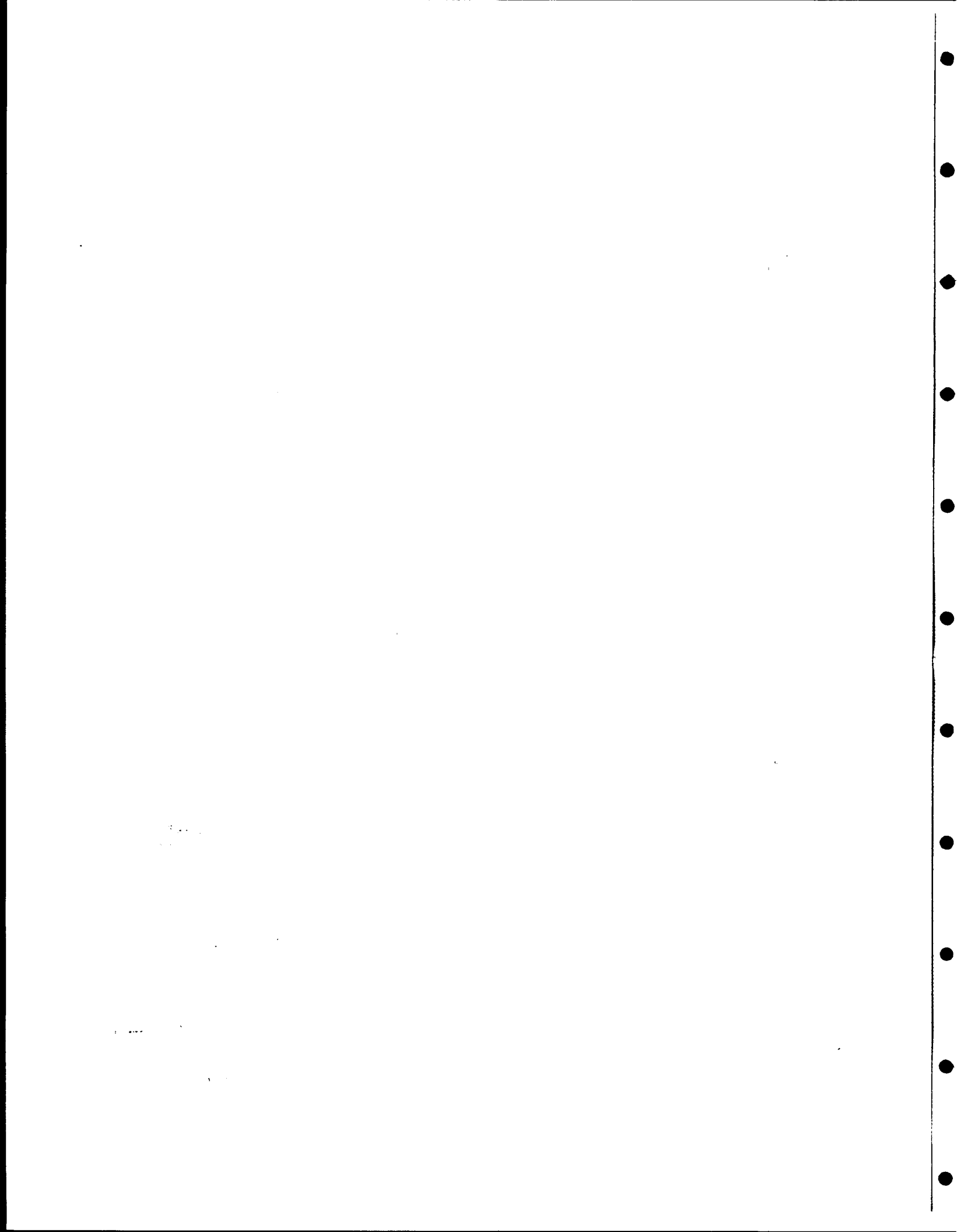
Cultivar	Seed Source	Pod Length (cm)	Surface	Colour	Attachment	Shape	Bean Length (mm)	% Sieve 3	% Sieve 4	Yield t/ha	Rating	Remarks
Eagle	6	12.2	3.8	3.8	4.0	3.8	8.3	88.0	4.2	1.98	3.8	R
Blue Lake 47	6	13.5	4.0	3.8	4.0	4.0	10.6	55.2	35.7	1.73	3.5	R, yield?
Javelin	17	13.0	3.5	3.0	4.0	3.5	13.3	58.2	31.0	2.19	3.3	D
Gator Green Imp.	41	13.6	3.3	3.5	4.0	3.5	11.4	54.7	32.5	2.35	3.5	D, quality?
Lazer	18	11.5	3.5	3.5	4.0	3.8	9.4	80.5	10.5	2.14	3.8	R
Provider	47	12.7	3.8	3.0	4.0	4.0	12.7	30.7	54.7	2.06	3.5	D
Burly	16	13.5	4.0	4.0	4.0	3.8	11.2	27.7	69.2	3.64	4.0	R
Delta	18	15.0	3.5	3.5	4.0	3.8	11.9	67.5	34.5	2.11	3.8	R
Slenderette	16	11.5	3.5	4.0	4.0	3.8	10.5	46.5	46.0	3.16	4.0	R
Lancer	1	14.2	3.8	4.0	4.0	4.0	8.6	53.5	26.0	1.90	3.5	D, yield?
Goldrush	6	12.6	3.5	3.5	4.0	4.0	11.3	89.7	0.5	2.06	3.8	R
Sungold	18	12.1	3.3	3.5	4.0	3.8	13.3	85.0	8.7	1.96	3.5	D, yield?

Seeded: June 14
Harvested: Aug. 22

1988 SCREENING PROCESSING SNAPBEAN TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Seed Source	Pod Length (cm)	Surface	Colour	Attachment	Shape	Bean Length (mm)	% Sieve 3	% Sieve 4	Yield t/ha	Rating	Remarks
Long Tendergreen	3	11.0	3.5	3.3	4.0	3.8	14.5	6	64	1.80	3.3	D, early
Bounty	3	12.0	3.8	3.5	4.0	3.5	12.8	37	56	2.78	3.5	R
BUX 5173	8	12.8	3.8	3.8	4.0	3.8	11.6	0	100	3.01	4.0	R, early
BUX 5176	8	no set										
Majestic	16	10.8	3.8	4.0	4.0	3.8	6.1	52	0	1.05	3.5	D, too late, yield?
Harvester	16	12.0	4.0	3.0	4.0	3.5	8.8	51	44	1.38	3.5	D, yield?
McHarvest	1	13.0	4.0	3.8	4.0	4.0	9.0	77	8	1.56	3.8	R
Hystyle	18	12.0	3.8	3.5	4.0	3.8	10.3	82	7	2.52	4.0	R
Podsquad	41	13.0	3.3	3.3	3.8	3.8	12.2	81	12	2.70	3.3	D
E-Z Pick	21	10.0	4.0	4.0	3.5	3.8	14.8	86	0	2.28	3.8	R
True Blue	17	13.7	3.5	3.8	4.0	4.0	12.0	58	35	1.84	3.8	R
Shore	17	10.8	3.5	3.3	3.8	3.3	11.6	37	62	1.5	3.3	D
Venture	21	11.2	3.5	3.3	3.5	3.3	11.9	32	34	1.8	3.3	D
Landmark	1	14.5	3.5	4.0	4.0	3.5	11.3	47	21	1.79	3.5	R
Lobith	39	15.0	3.8	3.8	4.0	4.0	12.5	28	57	1.55	3.5	R, yield?
Profit Maker	39	13.5	3.5	4.0	4.0	3.5	11.9	57	6	1.8	3.5	v. late, R?
Atlantic	6	15.5	3.8	3.3	4.0	3.8	13.0	36	49	1.35	3.3	D
KPB 202	6	15.0	4.0	3.8	4.0	3.8	11.8	92	1	2.73	4.0	R
Peak	6	14.0	3.5	3.5	4.0	4.0	13.6	62	36	2.57	4.0	R
Eureka	6	10.0	3.8	3.5	4.0	3.8	10.0	91	0	2.16	3.8	R
Sentry	6	11.2	3.5	3.5	4.0	3.5	7.6	89	0	2.29	2.2	D, dry interior
KPB 186	6	13.0	3.5	3.8	4.0	4.0	14.0	99	0	2.2	3.8	R
Flo	6	13.0	3.8	4.0	4.0	3.8	12.6	64	0	1.72	3.5	R
Century Gold	39	14.2	3.8	3.8	4.0	3.3	7.0	76	17	1.13	3.0	D, low set
Golden Rocky	45	no set										
Rocdor	41	12.0	3.5	3.8	4.0	3.5	12.0	51	22	1.46	3.3	D
Golden Rod	41	13.0	3.8	3.5	4.0	4.0	12.0	46	32	1.57	3.5	D, v. late
Slim Gym	33	14.0	4.0	4.0	4.0	3.5	9.6	74	18	2.45	3.8	R
Labrador	33	11.0	3.8	4.0	4.0	4.0	10.3	86	8	2.86	4.0	R
Dandy	33	10.0	3.0	3.0	3.5	3.5	13.6	12	43	2.1	3.3	D
BBL 47	33	14.0	4.0	4.0	4.0	3.8	13.5	54	6	2.86	3.8	R, late
Gala Slim	33	11.5	4.0	4.0	4.0	4.0	11.0	73	20	3.1	4.0	R
Cometa	33	10.0	3.0	3.8	3.5	3.0	9.6	61	20	1.79	3.3	D

Seeded: June 14
Harvested: Aug. 22



1988 CHINESE CABBAGE TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Height (cm)	Width (cm)	Weight (kg)	Remarks
Kasumi	41	31	28	4.45	v. sweet, small core, white int.
China Pride	41	28	24	4.4	loose, large ribs, yel. int.
Wintertime	41	30	17	4.0	small core, loose, yel-green int.
Summertime	41	34	16	3.15	yel. int., loose
Springtime	41	31	21	2.65	white int., small core, tight, R
China Doll	18	36	20	3.7	large core, tight, pale int.
Blues	21	36	23	4.04	white int., tight, R
W-R Green 60	21	33	19	3.43	loose, large ribs, yel. int.
Lettucey Type	21	31	17	2.91	v. yel. int., loose, hollow core
Nerva	21	34	25	3.35	white int., large core
Nagoda	21	27	19	3.45	many ribs, white int., tight, R
Kingdom	28	27	19	3.54	small core, yel. int., loose, ribs
Hopkin	28	35	18	3.55	yel.-green, loose
Mai Choi	1	45	19	2.65	v. large core
What-a-Joy	1	40	28	2.95	large core, loose
Hyb. 50 Day	52	28	18	3.05	large core, white int., v. tight, R
Jade Pagoda	52	40	16	2.86	michihli, yel. int.
Mei Qing Choi	52	29	13	1.73	v. wide rib, thick leaf
Mingko	38	35	19	3.73	pale int., med. core
KS-11	53	29	15	3.3	v. small core, tight, pale int., R
New Moon 60	53	27	15	2.68	v. white int., RR
New Moon 50	53	29	25	2.65	white int. large ribs and core
White Witch	53	36	21	2.55	loose, yel.-green, hollow core
White Wood	53	34	18	2.7	large core and ribs, yel. int.
White Garden	53	31	19	3.75	v. large core, pale int., large ribs
White Sphinx	53	34	18	3.12	green-yel. int., small core, large ribs
White Chapel	53	34	19	3.49	large core and ribs, white int.
Monument	39	49	13	2.73	michihli, pale green int., susceptible to frost
WR 55	39	25	17	2.6	v. tight, many ribs, pale int., R
China Express	39	30	19	3.62	large core,, v. tight, white int., R
Joi Choi	39	33	15	2.55	hollow core, large rib
Mei Qing Choi	39	23	15	3.57	thick leaf, huge rib
Magica	6	35	20	1.9	huge hollow core, pale int., v. tight
Arcadia	6	34	18	2.61	pale int., v. tight, R
Chiko	38	47	17	3.1	michihli, yel. int.
China Pride	53	30	18	2.58	loose, pale int., black specksthrough ribs

Seeded: July 21
Harvested: October 19

1988 CHINESE RADISH TRIAL
R.C.A.T., Ridgetown, Ont.

Cultivar	Source	Length (cm)	Width (cm)	Weight (kg)	Remarks
Minowase Early Long White	53	40	7	1.64	smooth, tends to fork, pithy
Early 40 Days	53	43	8	1.79	cracks, hollow heart, rough
Tae Baek	1	18	9	1.4	smooth, tends to fork, greening on shoulder
White Rat	1	12	7	0.6	pear shape, forks, firm
April Cross	1	46	7	1.82	smooth, good int.
H.N. Cross	1	17	7	1.5	smooth, some cracks, tough, woody
Summer Cross #3	1	52	9	2.5	v. smooth, good int.
Mino Spring Cross	21	56	8	3.0	smooth, pithy, some break when pulled
Okura Cross	21	40	11	3.1	severe cracks, crispy
Seeded: July 21 Harvested: Oct. 19					
<u>Summer Radish</u>					
Poker	54	4.5	3.1	0.95	splits, white centre, HOT
Revosa	54	3.2	3.3	0.79	splits, globe, rough, pink, mild
Fuego	41	3.9	3.5	0.86	splits, rough shoulder, woody, pink centre, mild
Scarlet Globe Special	41	3.6	2.9	1.0	pink centre, rough, HOT
Cerise	43	4.5	3.5	0.74	rough shoulder, mild
Callisto	43	6.4	2.4	1.16	long, bi-colour, mild
Gala	43	5.0	4.5	0.55	large root, smooth, pink centre, HOT
Red King	18	3.2	2.8	0.83	smooth globe, white centre, mild
Belle Grande	18	3.8	3.2	0.94	good colour, globe, mild
Red Pak	41	3.7	3.2	0.86	rough shoulder, cracks, mild

Seeded: July 21
Harvested: Aug. 24

GLOSSARY of TERMS

j+ - jointed stem

d - dwarf

HG - homegarden

Nr - never ripe

cr - crimson

BE - blossom end

BER- blossom end rot

HL - hollow locules

YT - yellow top

D - discard

R - retain

WP - whole pack

P (tomato)- product
(pepper)- pendant fruit

U - upright fruit

