

A. Wright

1992

VEGETABLE

VARIETY TRIAL RESULTS

SMITHFIELD EXPERIMENTAL FARM
AGRICULTURE CANADA
TRENTON, ONTARIO

J. METCALF
D. CRAVEN
L. LONGMUIR



VEGETABLE VARIETY TRIALS

J.G. Metcalf, D.J. Craven, L.G. Longmuir
Smithfield Experimental Farm, Box 340, Trenton, Ontario
K8V 5R5

Forward		2
Sources of Seed		3
Weather		4-5
TOMATO	Fresh Market Advanced	6
	F1 Breeding	7
PEAS		8-9
BEANS	Whole	10-11
	Cut	12-13
	Yellow	14-15
CORN	SU Yellow	16-17
	SE Yellow	18-19
	White SU & SE	20-21
CARROT	Slice	22-23
	Dice	24-25

FORWARD

The information contained in this report is a summary of research conducted at Smithfield, Ontario for the evaluation of vegetable cultivars. Pesticide and herbicide applications were according to Ontario Ministry of Agriculture and Food Publications 363 and 75 respectively.

Temperatures were generally below normal with higher than normal rainfalls. These conditions combined to give much later than normal maturities. This was especially evident in sweet corn where the normal period of silking to maturity of 18-21 days was extended to 23-39 days.

Trials consist of 4 replicates. Where a 1-5 subjective rating is used the higher number is the more desirable expression of the character. Two or more years results should be used in considering the value of a variety. If further information is desired on any of these trials please contact the address below. To test any of the varieties contact the companies direct.

We wish to thank the Ontario Fruit and Vegetable Growers Association for their funding of a student to assist in the evaluation. We also wish to thank the seed companies listed on page 3 for their cooperation in supplying seed samples. We hope the information contained in this report will be beneficial to the vegetable industry.

Jack Metcalf,
Smithfield Exp. Farm,
Agriculture Canada,
P.O. Box 340,
Trenton, Ontario
K8V 5R5

(613) 392-3527
(FAX) 392-0359

SOURCES OF SEED 1992

AC Abbot & Cobb, Box "F" 307, Feasterville, PA, USA 19047
AS Asgrow Seed Co., 220 Pony Dr., Unit 3, Newmarket, Ont.
L3Y 7D6
BR W. Brotherton Seed Co. Inc., Box 1136, Moses Lake, WA, USA
98837
CO Columbia Seed Co. Ltd., Box 331, Vauxhall, Alberta T0K 2K0
CM Crites Moscow Growers Inc., Box 2372, Green Bay, WI, USA
54306
CR Crookham Seed Co., Box 520, Caldwell, Idaho, USA 83605
FM Ferry Morse Seed Co., Box 431, Orchard Park, NY 14125
HM Harris Moran Seed, 7420 Lewiston Rd., Oakfield, NY USA
14125
NU Nunhems Seed Corp., P.O. Box 18, Lewisville, Idaho, USA
83431-0018
PL Pure Line Seeds Inc., Box 8866, Moscow, ID USA 83843
PR Perron Seed Co., 2914 Boul. Labelle, Chomedey, Lavel, PQ
H7P 5R9
RG Rogers NK Seed Co., Box 4188, Boise, Idaho, USA 83711-4188
RS Royal Sluis, 1293 Harkins Rd., Salinas, CA, USA 93901
SK Stokes Seeds Ltd., 39 James St., Box 10, St. Catherines,
Ont. L2R 6R6
SM Smithfield Exp. Farm, Box 340, Trenton, Ont. K8V 5R5
SW Seedway Inc., Valk Associates, R.R. #4, Coldwater, Ont.
LOK 1E0

TEMPERATURE AND PRECIPITATION DATA

Smithfield, Ontario
1992

Date	MAY			JUNE			JULY		
	High (°C)	Low (°C)	Precip (mm)	High (°C)	Low (°C)	Precip (mm)	High (°C)	Low (°C)	Precip (mm)
1	9.1	3.9	8.4	21.2	13.5		23.8	9.7	
2	12.6	5.3	21.6	23.5	7.2	0.6	22.8	11.5	
3	15.1	4.5		25.2	9.1		18.5	14.8	8.4
4	12.1	3.8		27.5	9.8		23.8	14.4	2.6
5	15.1	4.9		18.9	14.7	15.5	23.1	12.4	
6	14.0	1.8		22.9	15.2	0.9	21.8	10.9	
7	17.0	-1.1		21.1	13.7		25.3	13.5	
8	21.3	2.5	1.7	24.5	15.6		20.7	13.1	9.7
9	22.8	13.1	2.0	22.8	11.7		26.3	17.4	
10	24.1	12.5		22.2	12.3		24.2	15.8	2.6
11	23.1	8.2		24.3	7.1		24.6	15.3	
12	25.9	9.3		26.5	15.0		24.0	14.6	21.8
13	22.2	11.8	1.7	28.6	16.2	0.6	24.5	16.7	2.9
14	14.5	5.9		27.4	14.6		18.8	14.2	5.2
15	20.9	1.9		22.8	9.1		26.6	13.3	
16	21.1	9.1		22.7	5.0		25.6	12.7	
17	24.5	12.5	0.6	28.3	7.3		22.4	18.0	11.2
18	20.7	11.8		27.2	16.9	2.3	26.5	17.0	0.3
19	22.2	1.8		23.1	16.7		25.9	16.5	
20	22.9	6.6		12.7	9.5		25.3	15.4	5.7
21	25.8	7.4		12.4	8.3	2.8	19.1	11.1	
22	27.7	8.5		20.4	7.0		22.9	10.2	0.3
23	27.2	14.1	9.8	20.0	6.4	2.3	23.3	13.2	1.7
24	14.7	2.5		13.5	9.6	0.6	24.7	10.1	
25	15.5	1.6		22.5	10.5		24.5	16.3	
26	11.8	4.4	12.3	23.5	9.0		22.5	16.0	1.8
27	18.0	7.6	0.3	24.6	11.1	5.4	23.1	14.0	
28	18.0	9.0		23.4	12.8		23.1	13.1	
29	20.7	3.1		25.8	11.4		22.3	14.4	
30	16.1	6.7	11.2	21.5	15.0		22.4	13.1	4.0
31	17.0	11.1	0.6				15.7	13.2	20.4
Mean	19.2	6.6	70.2	22.7	11.4	31.0	23.2	13.9	98.6
42 Year Ave. Mean	18.2	6.6	79.7	23.0	11.8	62.9	26.1	15.0	62.4
1992 Compared to long term	+1.0	0	-9.5	-0.3	-0.4	-31.9	-2.9	-1.1	+36.2

TEMPERATURE AND PRECIPITATION DATA

Smithfield, Ontario
1992

Date	AUGUST			SEPTEMBER			OCTOBER		
	High (°C)	Low (°C)	Precip (mm)	High (°C)	Low (°C)	Precip (mm)	High (°C)	Low (°C)	Precip (mm)
1	24.5	12.4		20.3	10.1		14.8	-0.8	
2	22.7	17.2	0.9	21.4	5.4	20.1	21.8	7.8	
3	22.4	15.6		21.2	14.0	9.2	22.2	13.8	
4	21.1	14.1	0.3	22.7	12.2		16.6	0.5	
5	23.0	11.7		25.5	8.8		14.5	-0.1	
6	25.9	10.9		21.6	16.0	2.0	13.0	-2.6	
7	26.1	9.9		24.1	17.8		17.7	-0.1	
8	20.0	14.0	13.8	23.1	17.0	13.3	19.4	1.9	0.6
9	23.2	18.0		21.3	6.0	2.5	18.5	6.2	2.0
10	24.3	16.5	8.6	22.5	16.1	0.3	18.3	6.7	1.7
11	22.8	15.9	0.3	18.7	9.6		17.3	10.6	1.5
12	19.3	9.8		17.4	2.8		15.3	8.7	1.2
13	16.3	9.5	6.0	21.5	6.5		12.3	1.8	0.6
14	22.3	8.1		22.2	8.1		9.6	0.4	0.9
15	24.3	8.5	2.3	25.3	12.1		10.4	6.9	0.9
16	18.9	14.3	2.0	24.5	17.4		17.0	9.3	1.2
17	20.9	13.9	0.3	26.1	18.8	0.9	8.8	2.1	1.4
18	22.6	10.8	0.6	25.1	17.1	23.8	8.3	-3.5	13.5
19	21.1	11.7		17.5	8.3		2.1	-0.4	
20	19.9	8.7		18.6	4.8		4.6	-6.7	9.5
21	22.8	7.9		21.5	8.8	34.5	5.6	2.4	
22	24.8	11.0		22.4	16.6	7.5	9.0	-1.9	
23	26.3	9.6		13.3	2.6		14.6	-1.1	12.1
24	26.4	13.5		17.7	0.4		14.4	7.6	3.2
25	28.4	16.7		19.7	2.5		9.4	0.2	
26	29.1	20.2		16.3	5.7	2.0	8.0	-5.1	2.9
27	23.3	18.5	15.5	20.0	13.5	7.8	10.7	1.0	
28	24.4	15.7	31.3	18.2	6.0	0.3	10.9	0.7	
29	19.8	15.3		11.9	5.7		4.2	1.4	5.5
30	21.0	9.5		11.1	0.3		7.1	-2.0	
31	19.5	14.9					8.4	-0.8	
Mean	22.8	13.0	81.9	20.4	9.7	124.2	12.4	2.1	58.7
42 Year Ave. Mean	24.8	14.0	79.0	20.2	9.9	80.4	13.9	4.0	80.1
1992 Compared to long term	-2.0	-1.0	+2.9	+0.2	-0.2	+43.8	-1.5	-1.9	-21.4

TOMATO ADVANCED FRESH MARKET 1992
SMITHFIELD EXPERIMENTAL FARM

VARIETY	F D L A O T W E E R	M Y A I R E K. L D	M Y A I R E K. L D	M Y A I R E K. L D	S G I R Z A E M S	% 6 5 O V M E M R	% U N M A R K.	V S I P N R E E A D	A P P E A R.	E C X O T L E O R U N R A L	L S K. H O U Y E L D L E R	S M O O T H.	L S K. C O A R F	S H A P E	C R E A S C I K S T.	F I R M N E S S	I N T. S T R U C.	S F U I R T A M B A L R E K.	REMARKS
		TO 08/27	TO 09/10	TO 10/24															
ST-181	06/28	7.8	31.2	48.9	154	83	21	3.0	4.0	4.3	4.7	4.0	2.7	2.7	4.0	3.0	4.0	4.7	Promising Past best Rated
ST-180	07/01	6.8	27.8	41.7	138	83	26	2.7	3.0	3.0	4.7	3.0	3.7	2.7	4.7	3.7	3.7	3.7	past best Rated
ST-185	07/01	9.3	26.3	41.0	161	85	26	2.3	3.0	3.0	4.3	4.0	3.7	3.0	4.0	3.0	3.0	2.7	past best Rated
ST-183	06/29	5.4	24.2	40.6	174	88	22	3.3	3.0	2.7	3.7	4.0	2.7	2.3	3.7	3.0	3.7	3.0	past best Promising
ST-184	06/28	6.7	21.9	36.9	172	89	24	3.0	3.0	3.3	3.7	4.0	2.7	2.3	4.3	3.3	3.3	3.7	Past best Sl. nipp.
Sunrise	07/01	3.5	18.8	35.3	170	90	23	2.7	3.3	3.7	4.3	4.0	2.7	2.7	4.0	4.0	3.3	3.0	Light yld nice frt.
Stokes Pak	07/01	4.4	21.2	34.9	164	87	35	3.0	2.7	3.7	4.3	3.7	2.7	2.7	3.7	3.0	2.7	3.0	Rated past best
TH 318	07/03	3.6	24.5	34.1	145	76	46	2.3	2.7	2.3	3.3	2.7	4.0	2.3	4.3	3.0	3.3	3.0	Bl. col., past best
Pilgrim	06/30	3.8	21.4	34.1	185	88	30	2.7	3.0	3.0	4.0	3.7	2.7	2.7	3.3	2.7	4.0	3.3	Promising
Sunbeam	07/05	0.7	9.3	24.2	232	97	25	3.3	4.0	2.7	4.7	4.7	3.3	3.0	4.0	4.0	4.7	2.3	Prom. but late
Mountain Pride	07/06	0.0	3.9	21.6	194	96	13	3.7	4.0	3.3	4.3	4.0	2.7	3.0	5.0	4.0	3.7	2.3	Very late
Mountain Delight	07/01	0.8	8.7	20.9	206	98	24	3.7	3.0	2.3	4.0	3.7	3.3	3.0	4.3	4.7	4.7	2.7	Late
Red Star	07/07	0.9	11.0	15.1	251	98	61	2.3	1.7	2.3	3.7	3.3	2.0	2.7	1.3	4.3	3.7	1.0	Severe blo Discard

F1 TOMATO - 1992

	F D L A O T W E E R I N G	F D R A U T I E T I N G	V S I P N R E E A D	S E A S O N	Y I E L D		A P P E A R A N C E	E C X O T L E O R U A L	L Y A E C L O W F S H.	S M O O T H N E S S	L O A F C S C A R S	S H A P E	C R E S C I M N T A N C E	F I R M N E S S	I S T R U R C N T A U L R E	S I Z E (g)	S F U R I E T.S H O M R K T.	REMARKS
					E A R L Y	T O T A L												
ST-183	JN 30	Aug 30	3.3	ME	3.0	3.7	4.7	3.3	3.7	4.0	3.0	GL	3.7	4.3	3.7	192	4.0	Prom.
S92E	JN 26	Aug 24	2.3	E	4.0	3.0	3.0	3.3	3.7	2.7	3.3	OB	3.7	3.7	3.0	169	3.3	V.Prom.
S92B	JN 30	Aug 28	2.3	ME	2.7	3.0	3.3	3.3	3.7	3.7	3.0	OB	4.3	3.3	3.3	204	3.3	
ST180	JY 2	Aug 30	3.0	E	3.0	3.3	2.3	3.3	3.7	3.0	4.0	GL	4.3	4.7	3.7	176	3.0	Prom.
S92A	JN 30	Aug 29	2.3	M	2.3	3.3	2.7	3.3	4.0	2.7	2.3	OB	4.7	4.3	4.7	191	3.0	
S92C	JN 30	Sep 2	2.7	ML	1.3	3.7	4.0	3.3	4.3	3.0	3.0	GL	5.0	4.7	4.3	212	3.0	Late
S92D	JY 3	Aug 31	3.0	M	2.0	3.7	2.3	2.0	4.0	3.3	3.0	GL	4.7	3.7	3.7	187	2.7	Slight catface
ST181	JY 4	Agu28	1.7	ME	2.7	2.7	2.7	3.0	3.7	3.7	2.7	OB	3.7	1.7	3.3	178	2.7	Slight catface
ST184	JY 4	Sep 4	2.7	ML	1.3	3.0	4.0	3.7	4.7	4.0	3.0	GL	5.0	4.7	3.7	176	2.7	Too late
ST-185	JY 5	Aug 31	3.0	M	2.0	2.7	3.0	3.3	4.3	3.0	2.7	OB	3.3	2.7	4.0	171	2.3	Slight catface

PEA VARIETY TRIALS 1992

PLANTED MAY 15

PAGE 8

VARIETY	SOURCE	PLANT DATE	HEIGHT (FLOWERS)	VLENGTH	PPOLDA S/N T	PPPOD S/	H D A A R T E S T	H U E N A I T S	T E N D E R.	V I N E / P A	A Y D I J U L S D T E D T/ha*
Spring	AS	6/21	430	51	2.6	6.0	7/13	718	97	7.6:1	5.09
NUN 1013	NU	6/19	417	53	5.1	6.5	7/13	718	93	6.6:1	6.11
FR 923	BR	6/20	424	57	3.7	6.4	7/13	718	93	6.2:1	6.66
XPF 236	AS	6/23	448	54	4.8	5.7	7/13	718	89	5.7:1	6.41
Revolution	RG	6/21	430	44	5.6	5.9	7/14	730	105	6.4:1	5.43
FR 924	BR	6/21	430	54	4.3	6.4	7/14	730	96	8.0:1	5.82
Early FR680	AS	6/22	439	43	3.4	6.0	7/14	730	96	6.5:1	6.08
Scamp	PL	6/26	479	49	4.5	6.8	7/16	760	100	5.5:1	7.15
XPF 237	AS	6/27	492	58	3.9	7.1	7/16	760	92	9.2:1	4.39
Sunup	PL	6/26	479	55	4.0	6.2	7/17	776	97	5.2:1	6.95
HP235-1-1-3	RG	6/30	534	50	4.6	7.1	7/18	793	95	7.4:1	6.71
CMG 293F-1	CM	6/30	534	57	3.7	7.0	7/20	826	111	4.6:1	8.17
FR 652	BR	6/28	506	70	5.5	5.7	7/20	826	95	5.5:1	8.02
Kodiak	PL	6/30	534	56	4.2	5.7	7/20	826	95	5.5:1	7.80
HP 778-5-1	RG	7/1	546	46	2.7	7.0	7/20	826	95	6.0:1	7.68
Encore	AS	7/3	571	60	4.6	6.1	7/20	826	92	7.1:1	6.49
Sublima	CO	7/4	586	64	4.8	6.3	7/20	826	92	9.4:1	4.97
CMG 279F	CM	7/3	571	63	5.6	6.5	7/20	826	89	7.8:1	7.30
NUN 1894	NU	6/30	534	59	5.9	6.7	7/21	836	107	5.8:1	6.44
Bolero	AS	7/3	571	55	5.8	5.6	7/21	836	97	6.1:1	7.63
Quantum	AS	7/3	571	60	5.6	6.1	7/21	836	96	6.3:1	6.72
FR 675	BR	7/5	599	61	6.0	5.1	7/21	836	89	8.6:1	5.67
Laser	AS	7/5	586	61	5.5	6.1	7/22	848	92	6.8:1	6.82
FR 9000	NU	7/7	626	70	4.9	6.0	7/22	848	89	1.0:1	4.24
CMG 289F	CM	7/5	626	65	4.7	6.6	7/24	875	96	7.0:1	6.72

Sources

AS - Asgrow
BR - Brotherton
CO - Columbia

CM - Crites Moscow
NU - Nunhems
PL - Pure Line
RG - Rogers

* - Yields are adjusted to a tenderometer of 95

PEA VARIETY TRIAL 1992

CULTIVAR (in harvest order)	HARVEST Date	AVE. TEND. READ.	% SEIVE SIZE						AVE. SEIVE SIZE	COOKED QUALITY			
			6	5	4	3	2	1		Col.	Flav.	Text.	Rank
FR 923	7/13	93	28.2	36.1	15.9	10.3	9.2	3.7	4.5	3	5	4	2
NUN 1013	7/13	95	11.2	38.4	21.4	14.2	10.7	4.2	4.1	4.5	5	4	1
Spring	7/13	97	24.5	33.7	15.8	11.2	11.4	3.4	4.4	3	3.5	3	7
XPF 236	7/13	88***	8.6	31.3	22.2	17.1	14.0	6.9	4.4	3	3.5	4	5
Revolution	7/14	104*	8.5	48.8	18.9	11.0	7.8	4.9	4.2	4	3.5	4	3
FR 924	7/14	96	9.2	29.4	20.5	14.9	16.4	9.7	3.7	3	3.5	4	5
EF 680	7/14	96	34.1	27.5	12.2	12.8	10.0	3.3	4.5	3.5	3	3	7
XPF 237	7/16	92	3.9	17.7	19.5	27.5	20.1	11.4	3.4	3	4	4	4
Scamp	7/16	100	11.4	41.7	16.8	12.1	7.4	3.0	4.3	3	3.5	4	5
Sun Up	7/17	97	21.4	46.7	14.6	9.0	6.1	2.1	4.6	3	3.5	4	5
HP 235-1-1-3	7/18	95	10.8	37.3	26.8	15.8	7.4	2.0	4.2	2.5	3	3.5	8
CMG 293F-1	7/20	111**	27.1	51.8	13.3	4.3	2.5	1.0	5.3	4.5	3.5	3	4
FR 652	7/20	95	44.9	36.1	10.3	5.2	2.6	1.0	5.1	3	3	3.5	7
Encore	7/20	92	5.6	29.9	33.6	17.8	9.4	3.7	3.9	3.5	3.5	4	4
CMG 279F	7/20	89***	2.6	24.6	32.0	20.7	14.0	6.2	3.6	3	3	4	6
Kodiak	7/20	95	28.1	48.4	13.4	5.7	3.2	1.1	4.9	3	3.5	4	5
HP 778-5-1	7/21	102	27.8	43.6	16.0	7.3	4.2	1.5	4.8	3.5	3	4	5
Sublima	7/21	92	0.8	14.2	26.5	27.1	20.3	11.1	3.1	3	3	4	6
NUN 1894	7/21	107	33.8	39.0	12.6	8.7	4.5	1.4	4.8	3	3.5	3.5	6
Bolero	7/21	97	5.5	47.5	26.8	11.0	6.2	2.9	4.3	4.5	3.5	4	2
Quantum	7/21	96	31.3	31.4	18.2	10.4	6.6	2.1	4.6	3.5	3	3.5	6
Laser	7/22	92	3.8	26.2	32.0	20.9	12.6	4.4	3.7	3.5	4	4	3
FR 675	7/22	89***	3.4	32.6	27.2	19.2	10.7	5.0	3.8	3	3	3.5	7
FR 9000	7/22	89***	6.1	23.3	31.6	22.8	12.3	3.9	3.8	3	4	4	4
CMG 289F	7/24	96	2.7	33.8	29.5	19.4	10.3	4.3	3.9	3	3.5	3.5	6

* - Could have been harv. 1 day earlier, ** - Could have been harv. 2 days earlier, *** - Could have been harv. 1 day later
 Colour of cooked product is generally more variable than usual and detracts from appearance in most cultivars.

PROCESSING BEANS 1992 - SMITHFIELD EXPERIMENTAL FARM

VARIETY	FD LAT WE R JULY	PU LAR NI TG H T	HD AA RT VE S T AUG.	HE IG HT (CM)	WI DT H (CM)	LO FC AP TO ID OS N	PA OT DH SA UR PV. P.	SC EO TN C E N T.	Y IE L D T/ha	PC OO DL OU R	PS OH DA PE	PS OM DO OT H.	PM OA DR K IS N CH	PS OT RA IG HT NE SS	SO UR CE	REMARKS
Whole Pack																
Allure	15	3.3	12	35.2	58.7	5.0	2.0	2.3	17.6	4.0	R	4.0	4.3	4.8	AS	Variable sizes Variable shapes
Nerina	17	3.5	11	36.1	58.1	5.0	2.8	2.5	16.6	3.3	RO	3.3	3.5	3.8	RS	
Slenderella	16	3.0	10	33.4	58.4	4.3	2.3	2.3	15.7	4.0	R	4.0	4.8	3.0	FM	
Narbonne	17	3.3	11	35.1	59.7	5.0	2.8	2.3	14.4	4.5	R	3.0	3.3	3.8	RS	
Quorum	15	2.5	11	34.4	53.8	4.5	2.3	2.5	14.3	2.3	R	3.5	3.0	2.8	AS	
Flevora	15	2.5	7	30.9	47.4	4.0	2.5	3.8	13.5	4.3	R	4.8	4.8	4.0	AS	Promising Variable concent. Variable maturity
HMX 9963	18	4.5	9	34.1	63.6	4.8	4.0	3.5	13.4	4.8	CR	4.3	4.5	4.3	HM	
HMX 0946	18	4.3	11	33.6	48.0	4.8	4.0	2.5	11.8	4.5	R	4.0	4.8	4.0	HM	
HB 324-1-2-3	16	4.0	7	33.0	55.2	2.8	3.3	3.3	11.7	1.8	R	3.5	3.8	3.3	RG	
Impact	16	2.3	5	34.1	63.6	3.5	1.8	3.0	11.4	Y	R	2.8	3.3	3.0	AS	
Asset	15	3.5	5	32.1	49.5	3.3	3.3	3.3	11.2	3.0	R	3.3	3.5	3.3	AS	Tapered. Questionable value
Banquet	17	3.0	5	35.8	64.3	3.3	2.5	2.0	9.8	2.5	R	2.8	3.8	3.3	AS	
Clyde	16	3.8	-	34.8	60.8	4.8	2.8	2.0	-	3.0	R	3.5	4.3	4.3	RG	Late. Poor taste.
Smilo	19	2.3	-	35.1	66.3	5.0	2.0	1.0	-	3.0	R	3.0	4.5	4.0	RS	Discard Not pro. type. Rangy, Discard

Seed Sources: AS - Asgrow
 FM - Ferry Morse
 HM - Harris Moran
 RG - Rogers NK
 RS - Royal Sluis

Y = Yellow
 R = Round
 RO = Round oval
 CR = Crease back

WHOLE PACK BEANS

CULTIVARS	SIZE % BY WEIGHT				POD LENGTH (MM)	COOKED QUALITY				COMMENTS
	1	2	3	4-5-6		Colour	Flav.	Text.	Rank	
Impact (Yellow)	7.1	33.0	54.1	4.6	117	4.5	4.5	5.0	-	Light yellow
Asset	13.3	46.0	40.1	0.4	118	4	4	4.5	2	Medium green
Banquet	17.5	26.0	49.1	7.4	122	5	4	4	1	Dark green
HB 324-1-2-3	10.6	49.3	35.7	2.9	111	3.5	3.5	4	3	Var. light green
Flevora	10.4	57.2	31.5	0	102	3	3.5	3	4	Medium green
Slenderella	4.5	7.9	18.5	68.2	106	4	4	4.5	2	Medium green
HMX 9963	5.5	9.5	34.3	33.4	103	4	4	3	3	Dark green
Narbonne	5.0	11.5	49.5	32.9	116	4.5	3.5	4.5	2	Medium green
Nerina	3.1	5.2	43.7	47.1	122	3.5	4	3.5	3	Variable med. green
Quorum	1.8	19.5	65.5	12.1	105	3	3	2.5	4	Medium green, chewy
HMX 0946	4.1	37.5	53.4	2.8	97	3.5	3.5	2.5	4	Medium green, chewy
Allure	6.4	65.3	25.9	1.3	121	3.5	4	3.5	3	Pale green

Sizes 1, 2 and 3 were used for quality evaluation.

Four cultivars had excessive 4-5-6 sizes

Banquet had best overall quality followed closely by Narbonne and Slenderella.

Impact - a yellow cultivar - had best quality but had no other cultivars to compare to.

Quorum and Allure had poorest texture.

PROCESSING BEANS 1992 - SMITHFIELD EXPERIMENTAL FARM

VARIETY	F D L A O T W E R JULY	P U L P A R N I T G H T	H D A A R T V E S T AUG.	H E I G H T (CM)	W I D T H (CM)	L O F C A P T O I D O S N	P A O T H S A U R P V. P.	S C E O T N C E N T.	Y I E L D T/ha	P C O O L D O U R	P S O H D A P E	P S O M D O T H.	P M O A D R I S N C H	P S O T D R A I G H T N E S S	S O U R C E	REMARKS
Cut																
Green Run	19	2.3	11	40.6	71.9	4.5	2.0	2.8	23.8	2.5	R	3.3	4.0	2.5	PR	Variable maturity
Hystyle	17	3.5	10	39.2	70.8	3.5	3.0	3.8	22.8	3.5	R	3.8	3.5	2.5	HM	
HB 495-1-2	20	3.3	11	43.8	69.7	4.0	3.0	3.3	22.6	3.0	R	3.0	3.8	3.0	RG	Var. shape & size, poor appearance
Applause	19	2.3	11	40.7	75.7	4.0	2.3	2.8	22.5	2.0	R	2.5	3.0	2.8	AS	
XPB 243	20	2.3	12	42.4	77.6	4.5	2.0	4.0	22.2	2.0	RO	2.3	2.5	2.5	AS	
True Blue	18	3.5	9	35.9	75.1	4.0	2.3	3.5	20.9	2.0	R	4.0	4.0	3.3	FM	
FM 431	18	3.5	12	40.1	68.4	4.5	2.3	3.5	20.1	3.0	R	3.5	3.8	3.5	FM	
Hypack	17	4.0	10	35.6	63.1	4.5	3.3	4.3	20.0	4.3	CR	3.8	4.0	3.0	HM	
Bounty	17	4.0	5	38.4	69.4	3.0	3.5	3.5	19.3	3.0	CR	3.3	4.0	3.5	SW	
Florence	16	2.5	5	36.0	63.8	2.3	2.5	3.3	18.6	1.5	R	3.5	2.8	3.0	RS	
Tenderlake	16	2.8	7	38.3	62.3	3.8	2.5	3.3	15.4	4.3	R	4.5	4.3	3.3	FM	Curved, stem cling
Rapids	14	3.3	5	39.4	70.2	4.5	2.3	4.3	14.6	3.0	R	3.0	4.0	2.5	FM	
XPB 242	17	3.3	7	42.4	72.5	4.5	2.0	4.0	14.5	3.0	CR	3.3	4.0	3.0	AS	
HMX 9965	19	4.0	7	42.4	68.8	4.5	3.3	4.3	12.8	4.3	CR	3.8	4.0	3.0	HM	
Labrador	18	3.3	7	41.2	65.2	4.0	3.5	2.5	12.1	3.0	CR	3.8	4.0	3.0	AS	
HB 357-6-6-3	18	2.3	-	38.3	64.3	4.7	2.0	3.7	-	3.7	CR	3.7	3.3	1.0	RG	Discard, crooked

Seed Sources: AS - Asgrow
 FM - Ferry Morse
 HM - Harris Moran
 PR - Perron

RG - Rogers NK
 RS - Royal Sluis
 SW - Seedway

R = Round
 RO = Round oval
 CR = Crease back

CUT GREEN BEANS

CULTIVARS	SIZE % BY WEIGHT				POD LENGTH (MM)	COOKED QUALITY				COMMENTS
	1 & 2	3	4	5 & 6		Colour	Flav.	Text.	Rank	
Rapids	18.9	15.0	29.8	35.9	126	4.5	4.5	5	1	Med. green, tender
Bounty	7.5	14.5	26.9	50.7	142	3	3	4	6	Variable colour
Florence	10.5	13.4	34.1	42.4	143	4	4	3	4	
Tenderlake	10.4	8.5	22.2	56.9	128	3	3.5	3	7	Variable colour
XPB 242	10.6	29.4	44.3	14.6	123	4	4.5	4.5	2	Unif. dark green
Labrador	12.1	24.4	51.1	10.8	122	4	4	4	3	Sl. variable colour
HMX 9965	10.1	38.0	42.4	8.2	115	4	3	3	6	Slightly fibrous
Hypack	5.7	5.7	14.8	73.1	118	5	4.5	5	1	V. dark green
True Blue	5.9	6.5	17.0	69.5	121	3.5	3.5	3.5	5	Variable colour
Hystyle	5.9	5.9	17.3	70.2	117	3	3	3	8	Var. pale green
Applause	14.0	10.9	26.0	49.1	127	3.5	3.5	3	6	Pale green, sl. fibrous
Green Run	9.4	8.3	16.1	66.0	119	3	3.5	3	7	Var. pale green
HB 495-1-2	8.1	5.7	18.4	66.1	128	3	3.5	2	9	Var. pale green, chewy
XPB 243	10.1	11.6	20.2	50.6	124	3.5	4	3.5	4	Var. pale green
FM 431	10.9	15.1	43.8	28.2	112	2	4	3.5	7	Var. pale and some bronzing.

Each cultivar was quality evaluated twice and results were averaged. Rating was on a 1 to 5 scale (5 is best). Many cultivars had excessive % of beans in sizes 5 and 6 - considered large for cut beans and may be better suited to other style packs.

Rapid and Hypack had excellent texture and ranked best overall. Hypack also had excellent colour.

HB 495-1-2 lacked good texture.

FM 431 lacked good colour.

PROCESSING BEANS 1992 - SMITHFIELD EXPERIMENTAL FARM

VARIETY	FD LA OT WE E R JULY	PU LP AR NI TG H T	HD AA RT VE E S T AUG.	H E I G H T (CM)	W I D T H (CM)	LO OF C AP TO ID OS N	PA OT D H SA UR P.V. P.	SC EO TN C E N T.	Y I E L D T/ha	PC OO DL OU R	PS OH DA PE	PS OM DO DO TH.	PM OA DR K IS N CH	PS OT DR A I G H T NE SS	S O U R C E	REMARKS
Yellow Wax																
Eureka	18	4.0	10	35.1	68.6	4.3	3.5	3.8	20.0	Y	R	4.5	4.0	3.0	AS	Discard. Fibrous Variable shapes.
BE 506-10-1	16	2.3	6	33.0	68.3	4.3	1.8	4.0	18.8	Y	R	3.5	3.5	4.0	RG	
Gold Mine	16	3.3	10	36.3	67.2	4.3	3.5	3.8	17.7	Y	R	4.8	4.5	4.0	AS	
Butterwax	18	2.0	-	36.4	70.8	3.0	2.0	3.3	17.6	Y	R	3.8	3.5	2.8	SW	
FM 516	16	3.5	6	37.9	70.8	4.5	3.5	4.3	16.6	Y	R	2.8	2.5	3.5	FM	
Sunrae	17	2.8	6	36.0	66.1	3.5	3.3	4.3	15.4	Y	R	4.3	4.3	4.0	RG	Variable curving Glossy yell. color Discard. Extreme curves & crooks Discard. Too variable maturity.
FM 512	17	2.8	6	36.2	69.7	4.0	2.8	3.8	14.9	Y	R	4.0	4.3	2.8	FM	
Sungold	17	3.0	6	33.7	64.0	4.5	3.3	3.8	11.3	Y	R	3.8	3.5	3.8	SK	
H630-2-3-1	17	2.0	-	34.7	68.1	3.5	2.0	3.3	-	Y	R	4.0	4.0	1.5	RG	
Aminco	17	3.3	-	35.0	60.8	4.8	2.5	1.0	-	Y	CR	3.3	3.0	3.8	NU	

Seed Sources: AS - Asgrow
 FM - Ferry Morse
 NU - Nunhems

RG - Rogers NK
 SK - Stokes
 SW - Seedway

Y = Yellow
 R = Round
 CR = Crease back

YELLOW WAX BEANS

CULTIVARS	SIZE % BY WEIGHT				POD LENGTH (MM)	COOKED QUALITY				COMMENTS
	1 & 2	3	4	5 & 6		Col.	Flav.	Text.	Rank	
Sun Gold	18.6	23.6	41.9	15.6	118	3	4	5	1	Tender
Sun Rae	11.5	33.5	44.6	6.6	115	4	3.5	4	2	Uniform
BE 506-10-1	9.6	15.2	52.8	20.6	125	3.5	3.5	3	5	Sl. variable colour
FM 516	14.8	19.4	42.1	23.6	120	3.5	3.5	4	3	Sl. variable colour
FM 512	12.8	20.1	50.8	17.5	141	3.5	3	4	4	Sl. variable colour
Eureka	24.5	43.3	29.1	1.9	123	3	4	3.5	4	Dull colour
Gold Mine	9.9	13.0	63.5	14.8	127	2.5	3.5	3	6	Some grey

Sizes 3 and 4 were desirable.

Two cultivars had too many #5 and #6 sizes.

One cultivar had too many #1 size.

Sun Gold ranked best overall and had excellent texture. Several others were also very good.

Goldmine had poorest colour due to variability and a few grey pieces.

SMITHFIELD EXPERIMENTAL FARM
 BOX 340, TRENTON, ONTARIO K8V 5R5

SWEET CORN FIELD RESULTS YELLOW - REGULAR SUGAR

PLANTED MAY 19

PAGE 16

VARIETY	SOURCE	SEI EGD OLR ING	DH AAT LFE OS FIL K	DH AAT RVE EST	STO SUP CLC KAE NRT S	HFI TIR SRS TO ST BE AAR SE	ES AN SAP PI NG	GRA AMS /C OB	TH OEN CNT EAS /R E	U AN P HP U SA K R. E D	EC AO RVE TR IP	T IP F ILL	# RO WS	EL AE RNG T H (cm)	ED AI RAM ETE R (cm)	OR VET RIN GL L	REMARKS
More Eliminator	AS	3.0	8/8	9/16	59	96	4.0	433	23.7	2.5	4.8	4.3	20	18.0	4.5	4.5	Very promising
Rely	CR	3.0	8/6	9/10	81	68	3.5	436	23.6	3.3	3.8	2.8	18	19.1	4.7	3.0	Slight taper
Flavour King	CR	2.7	8/5	9/8	54	101	3.3	443	23.4	3.8	4.5	2.3	20	18.5	5.0	3.8	
GH 2628	SK	2.5	8/9	9/11	94	101	2.5	366	23.3	3.0	2.3	2.3	16	18.4	4.3	2.3	Some pink kernels
	RG	3.5	8/13	9/8	47	97	3.0	430	22.4	3.3	3.8	3.5	18	19.9	4.5	3.8	Long shank
GH 2839	RG	2.2	8/9	9/14	56	96	2.0	400	21.8	3.3	4.3	1.8	20	18.6	4.3	2.5	
Rival	AS	3.0	8/3	9/2	73	80	4.5	368	20.5	3.8	3.0	3.3	16	17.7	4.3	3.8	Promising
FMX 268	FM	2.2	8/8	9/11	65	106	1.8	395	20.4	3.8	2.5	3.0	20	19.4	4.6	3.8	
Viking	RG	2.7	8/12	9/14	64	95	3.0	425	20.3	3.8	4.0	2.0	18	19.1	4.4	1.8	Crooked, curved, discard
Jubilee	RG	2.2	8/7	9/9	84	92	4.0	390	19.7	4.0	2.8	3.0	16	19.2	4.4	3.5	Long shanks
HMX 8396	HM	3.8	8/9	9/10	65	95	2.8	381	19.6	4.0	4.0	3.0	18	20.4	4.2	3.1	Very promising
GH 1685	RG	3.0	8/6	9/11	95	93	2.5	389	19.4	3.3	2.0	3.0	16	19.5	5.0	3.0	Sl. taper & crooks
Cornucopia	FM	1.3	8/10	9/14	88	90	3.3	413	18.9	3.0	3.0	2.8	20	19.0	4.6	3.0	Very var. maturity
Reward	RG	3.8	7/29	8/28	118	73	3.3	380	18.4	3.8	3.8	2.5	18	19.3	4.5	2.2	Tapered & var. tip fill
HMX 9372E	HM	1.8	8/9	9/14	46	98	4.0	381	18.2	3.0	3.5	2.8	18	19.2	4.5	2.0	Many pink kernels
HMX 9373E	HM	2.3	8/6	9/2	73	94	3.3	326	18.2	3.5	4.5	1.5	18	18.6	4.0	1.8	Crooked, variable color, small cobs
GH 2643	RG	2.2	7/31	9/2	82	84	1.3	346	18.1	3.5	1.8	3.0	16	18.8	4.4	1.8	Crooked rows, variable colors
GH 2690	RG	2.8	8/10	9/11	51	92	3.0	368	18.0	2.8	3.8	2.0	18	18.4	4.5	2.0	DISCARD, crook, tape tapered.
Bingo	CR	1.0	8/1	9/3	155	80	1.5	363	17.9	3.5	3.5	2.5	18	17.2	4.4	1.8	DISCARD, pink kernels, crooked
Spring Dance	SK	2.7	8/1	8/27	53	95	3.8	358	17.7	3.3	4.8	3.8	14	18.0	4.1	1.8	DISCARD, curved,
Excellency	FM	2.7	8/6	9/9	74	95	3.3	399	16.2	3.0	3.0	3.0	18	18.4	4.4	1.0	DISCARD, tapered, curved
Reveille	AS	4.3	7/27	8/24	84	72	2.3	351	15.8	4.0	4.5	2.8	16	17.4	4.8	1.3	Crooked, tapered, var. colour
Norsweet	SK	3.5	7/29	8/21	68	60											DISCARD, not processing type

SWEET CORN PROCESSING RESULTS YELLOW S.U.

Recovery

Cooked Quality

CULTIVAR	SIZED COB				KERNEL		KERNEL				COB					
	% HUSK LOSS	% OF REC'D WT	% PICK UP IN BLANCH	FROZEN RECOVERY %	WASHED % OF REC'D	FROZEN % OF REC'D	COL.	FLAV.	TEXT	RANK	COL	FLAV	TEXT	BITE	APP.	RANK
Reveille	34.3	50.0	15.1	56.9	30.7	30.0	5	5	4	1	3	4.5	4.5	5	3	3
Reward	33.8	53.2	18.5	62.2	32.6	32.8	4	3.5	4	4	3	3	3.5	4	3.5	8
GH 2643	29.9	44.1	15.3	50.7	28.8	28.2	4.5	3.5	3	5	3	3.5	3.5	4	3	8
Rival	42.0	39.7	16.7	43.4	20.0	18.8	3	4	3.5	6	3.5	3.5	3.5	4	3.5	7
Bingo	37.3	42.7	15.1	48.5	28.3	28.8	4.5	3.5	4	3	3.5	3.5	3.5	3.5	3.5	7
Rely	35.2	46.0	11.8	50.8	32.9	30.2	5	3	3	5	3.5	3	3.5	4	3.5	7
Jubilee	32.4	50.0	13.6	56.0	31.3	30.4	4.5	4	4	2	4.5	4	4.5	4.5	3.5	2
HMX 8396	46.1	36.4	15.7	54.5	28.1	26.5	4	3	3.5	6	3.5	3.5	3	3.5	3	9
Eliminator	33.3	51.7	12.2	57.2	33.8	31.9	4	4	3.5	4	3.5	3	3	4	2.5	10
Flavor King	38.8	46.1	13.0	48.5	24.1	22.8	4	3.5	3	6	3.5	4.5	5	5	3.5	1
FMX 268	31.2	52.2	16.9	60.0	26.5	24.6	4.5	3.5	3	5	4.5	4	4	4	3.5	3
GH 1685	31.3	54.0	16.3	61.8	37.4	33.9	4.5	3	3.5	5	3.5	3	3	3	3.5	10
HMX 9372E	35.6	47.4	17.7	54.9	24.3	22.2	4	4.5	4	2	3	3	3.5	3	3	6
GH 2839	35.4	44.3	17.4	51.3	25.2	23.4	4.5	4.5	4	2	3.5	4	4.5	4	3.5	4
Cornucopia	34.3	49.1	18.3	57.3	29.2	27.5	4.5	3.5	3	5	3.5	4	4	5	4.5	2
More	34.7	53.2	16.1	60.8	36.6	34.7	4.5	3.5	3.5	4	4.5	4	3	4	4.5	5
GH 2628	34.1	50.0	13.4	55.9	39.3	37.5	5	3	3	5	3.5	2.5	4	3.5	5	6

SMITHFIELD EXPERIMENTAL FARM
 BOX 340, TRENTON, ONTARIO K8V 5R5

SWEET CORN FIELD RESULTS YELLOW SUGAR ENHANCED

PLANTED MAY 19

PAGE 18

VARIETY	S O U R C E	S V E I D O L R I N G	D H A A T L E F O S F I L K	D H A A T R E V E S T	% T O S U P C L E N T S	H F T. I R S T S O T B E A A S R E (cm)	E S A N S A P I N G	G R A M S / C O B	T H O E N C E A S /R E	U A N P H P U E S A K R. E D	E C A O R V E T R I P	T I P F I L L	# R O W S	E L A E R N G T H (cm)	E D I A I R A M E T E R (cm)	O R V A E T R I A N G L E	REMARKS
GH 2684	RG	3.8	8/3	9/3	66	85	2.3	446	33.3	4.0	3.0	2.8	16	20.2	4.6	3.0	Long shank, easily husked
Flavor Queen	SK	3.7	8/5	9/3	69	114	4.0	353	27.4	4.0	2.5	2.8	18	18.0	4.5	3.8	
GH 2757	RG	3.2	8/6	9/7	73	92	1.3	456	26.2	3.5	1.5	2.8	18	20.0	4.7	3.2	Long shank, hard to snap
Summer Flavour 79Y	AC	1.7	8/4	9/8	40	81	4.5	421	24.4	1.8	1.0	1.3	18	21.0	5.0	1.0	DISCARD, severe taper.
Terminator	CR	1.8	8/1	8/31	12	90	2.8	377	22.0	3.3	3.0	3.5	18	19.3	4.6	2.3	Very tapered
HMX 8395E	HM	2.5	8/6	9/10	85	91	2.3	426	22.0	3.3	3.0	2.8	20	19.7	4.8	2.5	Tough husk, sl. crooked
Champ Esteem	AS	2.8	7/27	8/26	83	61	4.3	344	19.3	4.0	4.5	4.5	16	16.6	4.2	3.3	Sl. pink, small cob
	HM	2.7	8/5	9/9	83	84	4.0	371	18.7	4.0	4.0	1.0	18	18.9	4.6	2.8	Promising, except for poor tip fill

SWEET CORN PROCESSING RESULTS - YELLOW S.E.

Recovery

Cooked Quality

CULTIVAR	SIZED COB				KERNEL		KERNEL				COB					
	% HUSK LOSS	% OF REC'D WT	% PICK UP IN BLANCH	FROZEN RECOVERY %	WASHED % OF REC'D	FROZEN % OF REC'D	COL.	FLAV.	TEXT	RANK	COL	FLAV	TEXT	BITE	APP.	RANK
Champ	39.3	51.4	14.3	58.0	20.3	20.4	3.5	4	3	2	2	5	3.5	5	2	6
Terminator	36.5	43.2	11.9	47.7	23.3	22.1	3.5	3.5	3	3	3.5	4.5	4	4.5	3	2
GH 2684	43.5	39.7	12.1	45.4	20.3	19.7	4	3	3	3	3.5	4	3	4	4	4
Flavor Queen	39.6	42.5	13.0	48.2	21.2	19.9	4	3	4	1	3	4.5	3.5	5	3	3
Esteem	37.5	48.6	14.3	54.8	32.4	32.2	4	3	3	3	4	3	3.5	3	3.5	7
GH 2757	29.9	50.8	12.4	56.3	32.2	30.2	3	3	3	4	3.5	3.5	3.5	4	3.5	5
HMX 8395 E	36.3	50.0	15.3	56.8	35.8	33.5	4	3.5	2.5	3	5	3.5	3.5	3	5	1

Rated 1 to 5 where 5 is the best.

SMITHFIELD EXPERIMENTAL FARM
 BOX 340, TRENTON, ONTARIO K8V 5R5

SWEET CORN FIELD RESULTS - WHITE

PLANTED MAY 20

VARIETY	S O U R C E	S V E I E G D O L R I N G	D H A A T L E F O S F I L K	D H A A T R E V E S T	% T O S U P C L K A R T S	H F T. I R S A E P I N G B E A R S E (cm)	E S A N S A E P I N G	G R A M S / C O B	T H O E N C E A S /R E	U A N P H P U E S A K R. E D	E C A O R V E T R I P	T I P F I L L	# R O W S	E L A E R N G T H (cm)	E D A I R A M E T E R (cm)	O R V A E T R I A N L G L	REMARKS
<u>REG. SUGAR</u>																	
Stirling	G	2.2	8/13	9/16	63	94	1.0	455	21.0	3.0	2.0	3.0	20	20.2	4.7	4.0	Best looking white this year
Silver Queen	K	2.7	8/14	9/18	72	98	3.5	423	19.8	1.8	2.0	2.8	14	19.9	4.2	1.0	DISCARD, var. mature
Silver Treat	RG	1.8	8/7	9/11	61	99	2.5	361	17.6	2.3	3.0	1.0	16	19.6	4.5	1.0	DISCARD, tapered & crooked
Platinum Lady	SK	3.5	8/4	9/4	91	109	2.0	326	15.4	2.3	2.0	3.3	12	18.1	4.4	2.0	Sl. taper & curve
Summer Pearl	SK	2.3	8/4	9/4	-	67	3.0	-	-	2.3	3.3	2.8	14	17.6	4.3	1.0	DISCARD, curved & tapered.
<u>SUGAR ENHANCED</u>																	
Argent	CR	1.2	8/7	9/11	53	77	2.3	418	24.3	1.5	3.3	2.8	16	19.0	4.4	2.0	Large, unattract. kernels
Alpine	RG	2.5	8/5	9/8	94	78	4.0	372	23.9	2.3	3.3	4.0	18	17.2	4.4	2.3	Silk clings
Crystal Bell	SW	4.0	8/3	9/3	134	83	3.0	349	22.9	3.5	3.5	3.8	18	16.4	4.5	3.0	Small cob, many doubles
Sugar Snow	SK	2.8	7/28	8/26	39	49	3.8	333	15.2	2.8	3.0	4.3	14	18.4	3.8	2.5	Some yellow, var. maturity
Sum. Flav.78W	AC	2.2	8/6	9/4	126	83	3.0	316	14.9	3.0	2.5	3.8	14	17.5	4.4	2.3	Taper & crook cob
Silverado	HM	2.8	8/7	9/2	117	77	4.8	296	13.6	2.0	2.3	4.0	16	17.8	3.8	1.0	DISCARD, curved, var. maturity
Divinity	SK	2.2	8/3	8/31	104	62	3.5	312	13.3	2.3	4.8	4.3	16	16.9	3.8	1.5	Silk clings, some yellow kernels
Snow Sweet	SK	1.0	8/2	9/2	121	59	4.0	330	-	2.5	4.5	4.0	16	16.3	4.0	2.0	Small tapered cob

SWEET CORN PROCESSING RESULTS - WHITE

SUGAR ENHANCED

Recovery

Cooked Quality

CULTIVAR	% HUSK LOSS	SIZED COB			FROZ. REC. %	KERNEL		KERNEL				COB					
		% OF REC.WT	% PICK UP IN BLANCH			WASHED % OF REC.	FROZ. % OF REC.	COL	FLAV	TEXT	RANK	COL	FLAV	TEXT	BITE	APP. RANK	
Sugar Snow	40.3	40.3	17.4		46.6	21.2	20.3	4.5	3.5	4.5	1	5	5	4.5	4	3.5	1
Divinity	34.5	52.5	12.6		58.1	18.3	16.7	5	3.5	4	1	5	4	4	4	3.5	3
Snow Sweet	35.4	46.8	14.3		52.8	30.3	29.0	4.5	3	3	3	5	4	4	3	3.5	4
Crystal Belle	34.0	54.2	8.7		57.8	29.3	28.5	4.5	3.5	3.5	2	3.5	3	3.5	3	4	6
Summer Flavour 78 W	39.0	50.8	16.7		58.5	19.7	18.0	4.5	3	4	2	4	3.5	4	4.5	4.5	2
Alpine	36.9	50.6	20.4		59.4	34.3	33.0	4.5	3	3.5	3	4	3	3	4	5	5
Argent	37.1	47.2	14.5		53.2	25.4	24.2	4.5	3	3.5	3	5	3.5	3	5	4.5	2

REGULAR SUGAR

Recovery

Cooked Quality

CULTIVAR	% HUSK LOSS	SIZED COB			FROZ. REC. %	KERNEL		KERNEL				COB					
		% OF REC.WT	% PICK UP IN BLANCH			WASHED % OF REC.	FROZ. % OF REC.	COL	FLAV	TEXT	RANK	COL	FLAV	TEXT	BITE	APP. RANK	
Platinum Lady	34.3	52.2	12.8		58.1	33.0	31.2	4.5	3.5	3	1	3.5	5	3.5	3	3	1
Sterling	43.5	51.4	16.2		58.9	41.8	40.2	4.5	3	3	2	3.5	2.5	3	3.5	5	2

CARROTS SLICERS
SMITHFIELD EXPERIMENTAL FARM - 1992

PLANTING - MAY 25

HARVESTED - SEPTEMBER 30, 1992

VARIETY	SOURCE	MT/AHRAKETE	% MARKETS	% OFFCUTS	RCUEALS	SHAPE	LWR/TAIO	LENGHTH(CM)	UNIFORMITY	SMOOTH.	SCHRAPWENSOF	LBALCKGHTF	S2E5EDMERRS/O	REMARKS
Nandrin	SW	130.0	46	14	SM	NA	4.8	17.2	2.75	2.5	3.5	3.5	0	
Major	HM	118.8	36	3	CR	NA	4.2	15.8	3.5	2.5	3.5	3.25	0	
Fontana	SW	107.5	20	8	CR	CP	4.2	19.2	2.5	2.0	3.0	2.25	1	Not a slicing type
Romosa	SW	103.6	47	8	MS	CP	4.9	17.0	2.5	2.25	4.25	4.0	0	
Newburg	SW	97.2	52	13	SP	NA	4.6	16.1	3.0	2.75	3.0	2.5	0	
Narova	SK	94.4	62	10	CR	NA	5.2	16.9	2.5	2.0	4.0	2.0	0	Too crooked for slicing
XPH 3789	AS	93.6	51	24	MS	CP	5.1	16.6	2.5	1.75	3.75	4.0	0	Brittle
FMX 331	FM	91.1	46	14	SP	CP	5.3	19.3	2.75	2.0	4.25	3.5	0	Breaks easily
CR-1-01	RG	90.0	57	15	CR	NA	4.9	17.0	3.25	2.75	3.5	2.25	0	
Nogales	SW	89.2	37	16	FO	CP	5.3	19.0	2.0	1.5	3.5	2.75	2	
Spec. Nantes 61	SK	86.7	59	9	SP	NA	4.8	17.0	2.5	2.75	4.25	2.0	0	
RS872086	RS	85.3	61	21	CR	IM	5.7	18.7	1.75	1.75	3.25	4.0	0	
Oranza	SW	83.6	45	10	FO	CP	5.0	17.7	2.5	2.0	3.75	3.25	0	
Nun 9306	NU	80.1	27	28	MS	CP	5.1	19.8	2.75	3.0	3.33	2.33	1	
CR-0-06	RG	79.4	49	20	FO	NA	5.0	17.2	2.75	2.25	2.75	2.0	1	
Nebraska	SW	78.9	65	13	MS	SP	5.8	17.1	2.0	2.0	3.5	2.75	0	
XPH 3694	AS	76.4	42	16	CR	SP	4.6	17.6	2.5	1.75	3.25	1.75	0	Very crooked. Discard
Vitasweet 781	AC	76.1	69	12	MS	IM	6.1	19.8	2.75	2.25	4.0	3.25	0	
Earlibird Nantes	SK	74.7	29	27	SP	NA	3.7	14.9	2.0	1.75	4.0	2.0	0	Rots and splits
FMX 335	FM	74.2	75	10	SP	SP	4.8	15.0	2.5	2.5	3.0	2.5	0	Some rots
Scarlet Nantes	HM	74.2	61	23	CR	NA	4.4	13.8	2.5	3.0	4.25	2.0	0	
Orange Appeal	PR	73.3	70	14	FO	CP	6.0	18.8	2.5	2.0	3.5	3.5	1	Discard
RS 882009	RS	69.2	66	23	SP	IM	5.8	19.1	3.5	2.75	3.3	3.5	0	
Vitasweet 691	AC	67.8	33	27	SP	IM	6.0	19.6	2.5	2.0	3.75	3.5	0	
Nun 9305	NU	66.4	72	18	MS	CP	4.8	17.2	1.75	2.25	3.5	2.5	0	
XPH 3779	AS	65.8	47	33	SP	SP	4.4	16.7	2.25	2.25	2.5	3.25	0	Woody. Discard
FMX 268	FM	60.8	62	21	SP	CP	5.0	15.9	1.5	2.25	3.75	2.0	0	
Vitasweet 711	AC	60.8	40	29	SP	CP	5.6	20.4	2.5	1.5	3.5	4.25	0	Discard
Blaze	RG	56.7	57	21	SP	CP	5.3	16.9	2.75	1.5	3.5	3.0	0	

PAGE 22

Seed Sources: AC = Abbot & Cobb, AS = Asgrow, FM = Ferry Morse, NU = Nunhems, RG = Rogers NK, SK = Stokes, SW = Seedway
 Shape: CP = Cold pack, IM = Imperator, NA = Nantes, SP = Spartan
 Reason for culls: CR= Crooked, FO = Forked, MS = Misshapen, SM = Small, SP = Split

SLICE CARROT

CULTIVAR	R A W							C O O K E D							
	CORE SIZE	GREEN SHOULD.	EXT	CORTEX	COLOUR CAMB	CORE	UNIF.	HORIZ LESION	RUSTY ROOT	RANK RAW	COL.	FLAV.	TEXT.	GEN. APPEAR	RANK COOKED
Blaze	5	5	5	4	4	3	5	4	5	1	4.3	4	4.5	Good	5
CR-1-01	4	4	5	4	4	4	5	4	5	2	4.5	4	4	Good	5
CR-0-06	5	4	5	4	3	4	4	4	5	3	4	3	4	Good	9
Earlibird Nantes	4	4	5	4	3	2	2	3	5	9	3.8	4.5	3.5	Good	8
FMX 268	5	4	5	3	4	4	4	3	4	5	4	4	4.5	Good	6
FMX 331	4	5	5	4	4	4	4	3	5	3	4.5	3.5	4.5	Good	5
FMX 335	5	4	5	4	3	3	3	4	5	5	4.3	4	3.5	Good	11
Fontana	4	5	5	4	3	4	4	4	4	4	4	3.5	4	Good	8
Major	4	5	5	4	4	3	4	4	4	4	3.8	3.5	4	Good	10
Nandrin	4	4	4	4	4	3	3	4	4	7	4	3	3.5	Good	11
Narova	4	4	5	4	4	4	5	5	5	1	3.8	4.5	4	Good	7
Nebraska	5	5	5	3	4	4	5	4	4	2	4	4	4	Good	7
Newburg	4	5	5	5	4	3	4	5	4	2	4	3.5	3.5	Good	9
Nogales	4	5	5	4	3	3	4	5	4	4	5	4.5	5	Good	1
Nun 9305	4	5	5	4	4	3	4	4	3	5	3.5	4	2.5	Good	12
Nun 9306	4	5	5	3	4	3	5	5	4	3	4.3	4.5	3.5	Good	6
Oranza	3	5	5	4	4	3	4	4	5	4	3.8	4	3	Good	10
Orang Appeal	4	5	5	4	5	4	4	4	5	1	3.5	4	4.5	Good	8
Romosa	3	4	5	3	4	2	4	3	5	8	3.3	3.5	4	Good	11
RS 887086	4	5	5	4	4	3	3	4	5	4	3.8	4.5	4.5	Good	6
RS 882009	4	5	5	4	4	4	3	4	4	4	5	4	3	Excel.	5
Scarlet Nantes	4	4	5	3	4	4	4	5	4	4	3.5	3.5	3	Good	12
Special Nantes 616	3	4	4	3	4	3	5	4	4	7	3.5	4.5	4	Excel.	7
Vita Sweet 691	4	5	5	4	3	4	5	5	5	1	5	3.5	4	Excel.	4
Vita Sweet 711	3	5	5	4	4	3	5	4	4	4	5	4	3	Excel.	5
Vita Sweet 781	3	5	5	3	3	4	4	4	4	6	4	4	4	Good	7
XPH 3694	5	5	5	4	4	4	5	4	4	1	5	4	4	Excel.	2
XPH 3779	4	5	5	3	3	3	4	4	4	6	4.5	4	5	Good	3
XPH 3789	4	4	5	4	4	4	5	4	4	3	4.3	4.5	5	Excel.	3

There were variations within acceptable tolerance in all properties:
Exception being core colour on Romosa and Earlibird Nantes.

Nogales ranked best for cooked quality.
Scarlet Nantes and Nun 9305 ranked lowest.
Nun 9305 had poorest texture

CARROTS DICERS
SMITHFIELD EXPERIMENTAL FARM - 1992

PLANTED - MAY 25

HARVESTED - OCTOBER 22, 1992

VARIETY	S O U R C E	M T/ A H R A K E T	% M A O R K F E T. 19 - 38 mm	% O F C U L T S A L	R C E U A L S L O S N	S H A P E	L W / R A T I O	L E N G T H (CM)	U N I F O R M.	S M O O T H.	S C H R A O P W E N S O F	L B A L C I K G H O T F	S 2 E 5 E D M E R R S/O W	REMARKS
Processor II	SK	106.4	19	14	SP	DV	2.8	12.2	2.5	1.75	2.0	3.25	0	Promising
Mark II	FM	102.8	20	16	SP	LD	2.9	12.8	2.0	1.5	1.75	3.5	0	
FMX 456	FM	88.1	10	25	SP	DV	2.6	14.5	2.5	1.75	2.5	2.0	1	
FMX 347	FM	78.6	13	12	FO	DV	2.8	13.3	2.5	1.75	2.25	2.0	0	
Gold King	RG	76.9	14	7	FO	DV	2.8	12.6	2.0	1.75	1.75	1.75	1	
Kazan	SW	76.1	38	11	MS	CP	5.0	17.7	1.5	1.75	3.0	3.5	0	
XPH 3738	AS	75.3	38	20	CR	SP	3.8	15.7	1.5	1.25	2.25	3.5	0	
Condor	SK	73.6	37	14	SP	CP	4.2	16.6	2.5	1.75	3.5	2.5	0	
XPH 3740	AS	71.4	26	28	SP	LD	3.2	14.7	1.5	1.0	1.75	3.75	0	
Wis. Proc. D	SK	71.1	38	18	SP	LD	3.7	13.8	2.75	2.0	2.75	1.5	0	
Processor II	SK	65.0	50	26	SP	CP	4.4	15.2	1.5	2.0	3.0	2.0	0	
XPH 3739	AS	65.0	27	32	SP	SP	3.8	15.6	1.75	1.75	2.0	2.75	0	

PAGE 24

Seed Sources: AS = Asgrow; FM = Ferry Morse; RG = Rogers NK; SK = Stokes; SW = Seedway
 Shape: CP = Cold pack; DV = Danvers; LD = Long danvers; SP = Spartan
 Reason for culls: CR = Crooked; FO = Forked; MS = Misshapen; SP = Split

DICE CARROT

CULTIVAR	R A W							C O O K E D							REMARKS	
	CORE SIZE	GREEN SHOULD.	EXT	CORTEX	COLOUR CAMB ZONE	CORE	UNIF.	HORIZ LESION	RUSTY ROOT	RANK RAW	COL.	QUALITY FLAV.	TEXT.	GEN. APPEAR		RANK COOKED
Condor	5	5	4	4	5	4	3	4	5	2	3	4	3	Good	6	Uniform orange
FMX 347	4	5	4	4	5	3	4	4	5	3	4	4	4	V. Good	3	
FMX 456	4	4	4	4	4	5	4	4	5	5	4	4	4	V. Good	3	
Gold King	4	5	4	3	5	4	4	3	5	4	3	3.5	4.5 core	Fair	5	Yellow
Kazan	4	4	4	5	5	4	3	4	5	3	5	4	4	Excel.	1	
Mark II	4	4	4	4	4	3	4	4	5	5	4	4	4	V. Good	3	
Processor II	4	4	4	4	3	3	5	4	5	5	3.5	3.5	3 bitter	Good	6	Slight.
Processor IV	4	5	4	4	5	5	4	4	5	1	4	4	3	Good	5	
Wisc. Proc.D.	3	5	4	4	5	4	5	5	5	1	5	4	4	Excel.	1	Uniform orange Yellow core
XPH 3738	4	4	4	4	4	4	5	5	5	2	3	4	4	Good	5	Yellow core
XPH 3739	4	5	4	4	3	3	3	4	5	6	4	3.5	5	V. Good	2	
XPH 3740	4	5	4	4	3	5	4	4	5	3	4	3.5	4	Good	4	

RAW COMMENTS

Core Size: Condor was smallest; Wisc. Proc. D. was largest.
 Cortex: Gold King had poor colour; Kazan was best.
 Cambium: Processor II, XPH 3739, XPH 3740 were poorest.
 Uniform colour: Condor, Kazan, XPH 3739 were most variable.
 Horizontal lesions: Gold King was worst, Wisc. Proc. D. and
 XPH 3728 were best.

COOKED COMMENTS

All were acceptable.
 Colour: Kazan and Wisc. Proc. D. were excell.
 Texture: XPH 3739 was best; Gold King was
 very good.
 Rank: Kazan and Wisc. Proc. D. were best.

