

*Review*

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Ontario

Ministry of  
Agriculture  
and Food

# MUCK VEGETABLE VARIETY TRIALS 1975

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VEGETABLE VARIETY TRIAL REPORT 1975

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KEY TO ABBREVIATIONS

SEED SOURCES

Agw	Agway	M.S.U.	Michigan State University
Asg	Asgrow	Nia	Niagara
Bee	Beemsterboer	N.K.	Northrup, King & Co
Bu.S.	Burpee Seeds	P.OI	Peter Olesen
Cla	Clause (France)	Oh.E.	Ohlsen's Enke
Cro	Crookham	P.W.	Pieters-Wheeler (Seeds)
Dae	Daehnfeldt (Denmark)	Ro.B.	Rogers Bros.
D.P.	D.Vander Ploeg's Elite Zaden	R.SI	Royal Sluis
D.G.S.	DeGroot en Slot	S.Gr	Sluis en Groot
D.J.G.	De Jongh Gebrs	Sto	Stokes
Des	Dessert	Trp	Trapp's
F.M.	Ferry Morse	TwI	Twilley
F.M.C.	Food Machinery Co.	V.D.B.	Vandenbergh
Har	Harris	V.D.H.	Vanderhave
Hok	Hokkaido Nat.Agric.Exp.Station	W.S.U.	Wisconsin State University
J.J.	Jacob Jong	R.Zw.	Rijk Zwaan
Key	Keystone		

RATINGS

In all variety trials, the rating 1 - 5 was used. That is for any observed characteristics: 1 designates a least desirable rating while 5 is most desirable, e.g. - under a heading such as color, with lettuce, a 5 rating would mean a deep green color or carrots, a deep red color is most desirable and would be rated 5.

\* \* \* \* \*

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Weather Data

	<u>Temperature. Mean Maximum</u>					<u>Temperature. Mean Minimum</u>					<u>Rainfall</u>				
	72	73	74	75	LT*	72	73	74	75	LT*	72	73	74	75	LT*
May	69	59	60	72	66	43	41	40	48	36	1.9	3.0	4.1	3.1	3.0
June	72	77	73	76	76	50	54	53	54	54	3.9	1.8	2.6	2.2	2.7
July	82	80	79	82	81	56	55	56	56	55	.9	.5	3.7	2.6	2.8
Aug.	77	81	78	78	80	54	58	53	54	53	3.5	3.7	3.2	2.9	3.0
Sep.	73	71	67	65	71	46	46	45	45	43	1.2	1.2	1.7	2.7	2.8
Oct.	52	60	56	59	59	36	41	35	40	39	3.4	3.2	1.5	1.5	2.3

LT\* = Long Term Average

\* \* \* \* \*

HOURS OF SUNSHINE

Total Hours of Bright Sun per Month

	1975		L.T.A.*	
	<u>M.R.S.</u>	<u>80</u>	<u>Guelph(41-70)</u>	<u>Harrow-Leamington</u>
Jan.				80
Feb.		99		96
Mar.		131		124
Apr.	185	168		163
May	256	227		228
June	272	251		243
July	292	286		286
Aug.	227	251		251
Sept.	160	171		181
Oct.	127	143		160
Nov.	73	74		87
Dec.	58	69		65.6

BROCCOLI TRIAL - 1975

Variety	Source	Days to Maturity	% Harvested	Wt. Terminals (ounces)	Diameter Terms. (inches)	Yield "Av" T/A	Total Yield T/A	Uniform	Compactness	Starring	Hollow Stem	Score	Remarks
Corvet	Ro.B	73-80	65	10	4.0	16.2	17.0	4+	4+	4	none	4.22	Excellent
XP408	Asg	73-77	45	7	3.6	7.9	11.9	4	4	4	none	4.00	Very Good
Parca F1	Ro.B.	73-80	45	7	3.6	7.6	9.8	4	4	4	none	4.00	All very nice, soft gr. color
XP1113	Asg	69-75	70	8	3.8	11.8	16.0	4-	4	4	5%	3.89	Nice
Green Comet	Har	66-82	55	7	3.7	10.0	14.0	4	4-	4	2%	3.89	Uniform, flat type, very good
Waltham 29	Har	82-94	35	5	3.8	3.2	4.5	4	4-	4	none	3.89	Very good and consistent
Hyb.#1464	Key	80-84	30	7	3.4	5.0	7.7	4	4	4-	none	3.89	Nice - to very nice
Atlantic	Asg	73-88	55	5	3.2	6.9	7.5	4	4-	4-	5%	3.89	Very good
XP1115	Asg	73-77	60	9	3.8	11.9	13.3	4	4-	4-	none	3.78	All nice, 60% harv'd in 2 days
Hyb.E	Har	66-80	50	10	3.4	8.8	13.0	4-	4-	4-	none	3.67	Nice dome type, good size
Hyb.Duchess	F.M	66-73	90	9	3.9	15.2	18.0	4-	4-	4-	10%	3.67	Good
Crusader	N.K	73-80	65	9	3.5	13.6	16.2	4	4-	3+	3%	3.67	
XP1109	Asg	75-80	55	9	3.7	11.6	17.2	4-	4-	4-	3%	3.67	Some nice
Hyb.1466	Key	73-77	55	9	3.9	12.0	17.1	4-	4-	4-	none	3.67	Very nice
Early Pacifica	F.M	73-80	40	8	3.7	6.4	9.6	4-	4-	4-	5%	3.67	Good
Exp.Hyb.A	Har	70-77	40	6	3.2	4.6	8.4	4-	4-	4-	none	3.67	Some purple discoloration
Waltham 29	Key	77-82	40	5	3.5	4.6	7.0	4-	4-	4-	none	3.67	Good
Early Spartan	Key	65-69	40	12	3.8	11.8	14.4	4-	3+	4-	none	3.56	All harv'd in 4 dates, lge size, unmkb. tend to be loose & discoloured.
Gem	Asg	69-75	45	10	3.6	7.8	14.0	4-	3+	4-	10%	3.56	Some beautiful, good size, some concave
Hyb.1467	Key	77-82	40	7	3.6	6.4	13.3	4-	4-	3+	2%	3.56	Nice, some leaves in head, purple.
Bravo	N.K	66-73	55	6	3.6	8.4	12.0	4-	4-	3+	14%	3.56	Tend to be off-color
Exp.Hyb.B	Har	65-73	55	7	4.2	8.6	9.1	3+	3+	4	none	3.55	Very good quality on second growth

BROCCOLI TRIAL - 1975

Variety	Source	Days to Maturity	% Harvested	Wt. Terminals (ounces)	Diameter Terms. (Inches)	Yield T/A	Total Yield T/A	Uniform	Compactness	Starring	Hollow Stem	Score	Remarks
Early One	Agw	77-88	40	5	2.9	5.2	8.0	4-	3	4-	5%	3.45	
Hyb. 2327	Key	66-73	40	6	3.8	8.8	6.0	3+	4-	3+	2%	3.44	Nice, but not consistent
Green Duke	N.K	66-73	40	13	4.0	9.9	14.3	3+	3+	3+	12%	3.33	Large size
Blue Ocean	Key	73-80	35	10	3.9	8.6	11.1	3+	3+	3+	none	3.33	Good size

Notes:

- These 26 varieties were direct seeded on June 6 in rows 23" apart, and on July 7, thinned to 3 plants/foot.
- The close spacing was inconvenient for harvesting, gave lighter terminals and higher yields per acre.
- In contrast to former years, no or very little hollow stem was found.
- Yield data "A" shows the tons/acre in 3 consecutive harvest dates,
- Days to maturity indicates the spread of these days while
- % Harvested is the % of the total possible yield harvested in 3 days.

CABBAGE OBSERVATION TRIAL - 1975

Keeping Quality  
Stability  
Head Protection  
Uniformity  
Firmness  
Stem length  
Internal  
Ground  
Height off  
Colour  
Shape  
Ave. Diam/Head  
Ave. Wt/Head  
Maturity  
Days to  
Source

Variety	Source	Days to	Ave. Wt/Head	Ave. Diam/Head	Shape	Colour	Height off	Ground	Internal	Stem length	Firmness	Uniformity	Head Protection	Stability	Keeping Quality
XP-1106	Asg.	99	2.8	6.9	F1.R	B.G.	M	M	M	M	4-	4-	4	4	
XP-1105	Asg.	78	2.75	6.0	R	B.G.	M	M	M	M	4-	4-	3	3	
XP-1104	Asg.	78	2.2	6.0	R	B.G.	M	M	M	M	4-	4	3	4-	
XP-1103	Asg.	78	2.3	6.0	R	G	L	L	M	M	4-	4-	3	3+	
XP-1102	Asg.	83	2.2	5.4	O	B.G.	L	L	LO	LO	4-	4	3	4	
XP-1101	Asg.	78	2.1	5.8	R	B.G.	H	H	LO	LO	3	4-	4	4	
XP-1069	Asg.	78	2.3	5.6	R	B.G.	M	M	M	M	4+	4+	3	4-	
Headstart	Asg	78	2.9	6.4	R	G	L	L	M	M	3+	4	2	3+	
Banner	Asg.	76	2.7	5.4	R	G	M	M	M	M	4+	4+	2+	3+	
Express	Asg.	78	2.0	5.6	R	B.G.	M	M	LO	LO	4-	4-	3	4+	
XP-1053	Asg.	81	1.8	4.8	R	B.G.	M	M	M	M	4+	4+	3	4+	
XP-1058	Asg.	78	2.5	5.8	R	B.G.	M	M	LO	LO	3+	4	2	4+	
XP-1067	Asg.	78	2.6	6.2	R	B.G.	M	M	LO	LO	3+	4	3	4+	
XP-1068	Asg.	78	2.75	6.2	R	B.G.	L	L	M	M	4	4-	3	4	
Express	Asg.	78	2.9	6.2	R	B.G.	M	M	M	M	4-	4-	3	4+	
Headstart	Asg.	76	2.9	6.6	R	G	L	L	S	S	4-	4+	2	4-	
Banner	Asg.	71	2.9	5.4	R	G	L	L	M	M	3+	4	3-	3+	
Enterprise	Asg.	76	2.3	5.4	R	B.G.	M	M	M	M	4	4+	3	2	
Jackpot	Nia.	76	2.4	6.0	R	B.G.	M	M	S	S	4-	4+	3	2-	
NCX-903	Nia.	76	2.3	5.8	R	B.G.	M	M	M	M	4	4+	3	3-	
NCX-907	Nia.	81	2.0	5.6	R	B	H	H	LO	LO	3	4-	2	2-	
Roundup Y.R.	F.M.	102	3.4	6.4	R	B.G.	H	H	LO	LO	4-	4-	2+	2+	
Little Rock Y.R.	F.M.	99	2.45	5.6	R	B	H	H	M	M	3+	4	2	2	2
Hyb. King Cole	F.M.	81	3.1	6.3	R	B.G.	H	H	LO	LO	4-	4	3	3-	2

CABBAGE OBSERVATION TRIAL - 1975

Keeping Quality

Stability

Head Protection

Uniformity

Firmness

Stem length

Internal

Ground

Height off

Colour

Shape

Ave. Diam/Head

Ave. Wt/Head

Maturity

Days to

Source

Variety

Variety	Source	Days to Maturity	Ave. Wt/Head	Ave. Diam/Head	Shape	Colour	Height off Ground	Internal Stem length	Firmness	Uniformity	Head Protection	Stability	Keeping Quality
Superette Y.R.	F.M.	83	2.75	6.0	R	B.G.	M	M	3+	4-	3	2	2+
Hyb. Gourmet	F.M.	78	2.8	6.6	R	E.G.	H	M	3	4-	3	2-	3
Early Vienna	Key.	74	1.5	5.2	R	G	M	S	3+	4-	3	2-	
Exp. 7234	Key.	102	2.95	6.4	P	R	H	LO	4	4	2+	2-	3
Exp. 6036	Key.	78	2.0	6.0	R	B.G.	M	M	3	4-	3	2	
Exp. 3425	Key.	71	2.4	6.2	R	B	L	M	4-	4-	4	2+	
Exp. 5926	Key.	81	2.6	6.2	R	B	H	S	4	4	3	2	3+
Exp. 7907	Key.	71	2.7	6.6	R	B.G.	M	M	4-	4+	4	3-	
Exp. 5927	Key.	76	2.5	6.0	R	B.G.	M	M	3+	4	3	2+	
Golden Acre K. Str.	Key.	74	2.3	5.8	R	G	M	M	4	4	4	2	
Exp. 6038	Key.	76	2.1	5.8	R	B.G.	M	M	3	4+	3	4-	
Exp. 6040	Key.	76	2.4	6.0	R	B.G.	M	M	3	4	3	4-	
Green Winter	Oh.E.	136	2.8	5.8	R-F	B.G.	H	M-LO	4	4-	4	4+	
Primate Fl	Oh.E.	68	3.0	6.0	R	G	M	S	4	4-	2	3	
Golden Acre 409	Oh.E.	68	2.6	5.6	R	G	M	M	4+	4	2	2	
Dural	Oh.E.	136	4.2	6.4	R-F	B.G.	H	LO	4	3	4	4+	
Proto	Oh.E.	74	2.2	6.0	Sp.	Savoy	M	M	3+	4	2	1	
Delikatesse	Oh.E.	74	2.1	5.4	R	B.G.	M	S	4	4	2	3+	
Primata	Oh.E.	74	2.4	5.6	R	G	M	M	4+	4+	2	1+	
Amager Green	Oh.E.	130	4.2	7.0	P	B.G.	H	LO	3+	4-	4	4+	
Golden Acre Sp.42	Oh.E.	71	2.3	5.6	R	G	M	M	4	4	2	1	
Ditmarsh D-126	Oh.E.	74	2.2	5.8	R	G.R.	M	M	4	4-	2	1+	
Pointed 536	Oh.E.	76	2.3	5.2	P	B.G.	M	M	3+	4+	3	3	
Copenhagen Market	Oh.E.	78	2.8	6.2	R	G	H	S	3+	4-	2	4-	

Biro



CABBAGE OBSERVATION TRIAL - 1975

Variety	Source	Days to Maturity	Ave. Wt/Head	Ave. Diam/Head	Shape	Colour	Height off Ground	Internal Stem length	Firmness	Uniformity	Head Protection	Stability	Keeping Quality
Noblesse (Small H)	Oh.E.	76	2.2	5.7	R	B.G.	M	S	4	4	2	3+	
Pointed Primavera	Oh.E.	74	2.0	5.8	P	Lt.Savoy	M	M	3	4	2	1+	
Finesse (Small H)	Oh.E.	83	1.75	4.8	O	B.G.	M	S	4+	4+	3	4+	
Ditmarsh D-141	Oh.E.	74	2.6	6.0	R	B.G.	M	S	4-	4-	2	4-	
Histanda F1	Bee.	78	2.75	6.2	R	G	M	S	3	4	2	4	
Hijula F1	Bee.	78	2.70	6.0	R-0	G	M	S	3	3+	3	4-	
Hinova F1	Bee.	136	4.0	6.4	R	B.G.	VH	M	4+	4+	4	4+	4+
Higusta F1	Bee.	83	3.6	6.8	R	G	M	S	4-	4	4	4	
Hyjula F1	Bee.	76	2.35	5.7	R	B.G.	M	S	3+	4-	2	4	
297 Sun-Up	Har.	76	2.15	5.6	R	B.G.	M	M	4	4	2	4-	
276 Hyb. 15	Har.	74	2.0	5.6	R	B	L	S	4-	4	3	4+	
271 Golden Acre 84	Har.	71	1.6	5.4	R	G	M	S	4	4+	2	4-	
284 Market Victor	Har.	74	2.9	6.6	R	L.B.	H	M	4	4	2	4-	
278 Market Topper	Har.	76	2.4	5.4	R	LB-BG	H	LO	4+	4	3-	4+	
283 Market Prize	Har.	81	2.6	6.3	R	B	H	M	3+	4-	3-	4-	4-
Vela 73261	Ro.B.	64	3.1	6.0	R	G	H	LO	4-	4-	2	1	
7324671	Ro.B.	81	1.8	5.3	R	B	H	M	4-	4-	3	4+	4
PW 306	P.W.	76	2.3	5.6	R	B.G.	H	M	4+	4	3	4	
Regina	Agw.	81	2.6	5.8	R	B	M	LO	4-	4	3	4	
Exp. 2677	Sto.	112	3.7	6.2	R	G	H	M	4+	4	4	4+	
Hyb. Red Head	Key.	102	4.1	6.6	Sl.F	R	H	LO	4	4	3	4+	
Pointed D-37	Oh.E.	136	4.8	6.4	V.P.	L.G.	M	LO	4	3+	3	2+	
Futura F1	Oh.E.	76	3	6.2	R	G	M	S	4	4+	3	3+	
Green Boy	N.K.	81	3.7	6.8	R	B	H	M	3	4	3	4+	4-

CABBAGE OBSERVATION TRIAL - 1975

Variety	Source	Days to Maturity	Ave. Wt./Head	Ave. Diam./Head	Shape	Colour	Height off Ground	Internal Stem Length	Firmness	Uniformity	Head Protection	Stability	Keeping Quality
Tastie	N.K.	74	2.4	6.0	R	B.G.	L	M	4-	4	2	4+	
Jet Pak	N.K.	71	2.45	6.0	R	B.G.	L	M	4+	4+	3	4	
Hercules	N.K.	99	2.55	5.6	O	B.G.	M	M	4-	4-	4	4+	4
Harvester Queen	N.K.	78	2.7	7.0	R	L.G.	M	S	3-	4-	3	4	
Rio Verde	N.K.	85	2.90	6.0	R	B.G.	H	M	4-	4	3	4+	3+
Hitoma F1	Bee.	99	3.25	7.0	F	B.G.	H	S	4	4	4	4+	4-
Predena F1	Bee.	99	2.85	5.7	P	B.G.	H	M	4	4-	4	4+	4-
Hinova F1	Bee.	123	6.8	8.0	F	G	M	LO	4	4	4	4+	3+
Higusta F1	Bee.	83	4.3	7.0	R	G	M	S	4-	4	3	3-	3
Red Head	Key.	102	3.5	6.4	S1.P.	R	H	LO	4	4	3	4	3+
290 Red Acre	Har.	102	3.4	5.8	P	R	H	M	4	4+	4	4	
291 Red Danish	Har.	123	4.5	6.6	O	R	M	LO	4-	4-	4	4+	
1246 Redman	Har.	112	3.4	6.2	R	R	M	LO	4	4-	4	4+	
Hisepta F1	Bee.	83	3.5	6.0	O	G	M	M	4-	4	3	4+	2+
290 Red Acre	Har.	112	3.7	6.2	R	R	H	LO	4	4	3	3+	4-
291 Red Danish	Har.	136	3.9	6.4	P	R	H	LO	4-	4-	4	3+	4-
1246 Redman	Har.	136	2.2	5.2	R-P	R	H	M-LO	4	4-	4	4+	

In this trial, 86 varieties from Europe as well as local sources were direct seeded on June 6. One row per variety, at a spacing of 23" x 12". Half the row was harvested for fresh market use and the other half judged for stability 4 weeks later. Optimum size 6" to 6½", weight 3 lbs. Due to heavy rain after irrigation many cvs stayed small and firm and took a few days longer to mature. No side dressing with Nitrogen. Some of the late varieties were kept in storage and judged for keeping quality.

Notes:

- Shape  
 Fl = flat  
 R = round  
 O = oblong  
 P = pointed  
 Sp = spear
- Colour  
 B = blue  
 G = green  
 R = red  
 L = light
- Height  
 Medium  
 Low  
 High
- Internal Stem Length  
 Medium  
 Long  
 Short

1 = least desirable  
 5 = very desirable

Head Protection  
 5 = excellent covering by wrapper leaves  
 1 = no covering

CAULIFLOWER VARIETY TRIAL - 1975

Variety	Source	Days to best Harvest date	% Marketable	Cut	% Once-over Cut	Ave. Wt /Head (lbs)	Ave. Diam /Head (inches)	Curd Protection	Curd Discoloration	Uniformity	Compactness	Colour	Leaves in Head	Ricey	Overall Rate	Remarks
Kibo Prio	R.S1	100	90	40	2.16	5.9	3-	3+	4	4	4	4-	3+	4-	3.74	
Elgon Media	R.S1	115	100	30	3.06	6.4	3-	3+	4	4	4	4-	4+	4	4.00	Very nice, med. size
Nimba Media	R.S1	145	80	40	2.00	5.2	3-	3-	4-	4	4	4-	4+	4	3.94	Good but small size
Suprimax	R.S1	94	90	30	2.92	5.9	3	4-	4	4	4	4-	3+	4-	3.74	Early
Merano	R.S1	78	100	50	1.94	5.8	3	3	4	4	3+	3	4+	3	3.52	Light wt. extra early.
Kibo Prio	R.S1	94	90	40	2.08	6.0	2+	3-	4	4	4	4-	4-	4-	3.82	Early
Fortados	R.S1	101	90	30	2.56	6.4	3+	3+	4	4	4-	4-	4	4-	3.82	
Akron	Oh.E	80	100	50	2.27	6.4	4	3+	4	4	4	4-	4+	3+	3.86	Extra early, ricey
Pax	Oh.E	90	100	40	2.20	5.7	3+	3	4	4	4-	4-	4+	4	3.94	Early, good quality, small
Idol	Oh.E	91	100	50	2.12	5.4	3-	3-	4-	4-	4-	4-	4-	4-	3.70	Early, fair size
Winner	Oh.E	126	80	30	3.22	6.8	3+	4-	4	4	4	4-	4+	4	4.00	Very nice, good size
Clou	Oh.E	106	90	20	2.61	6.2	2+	3+	4-	4	4	3+	4+	4-	3.80	
Alert	Oh.E	82	90	30	2.29	5.9	3+	3+	4	4	4	3+	4+	4-	3.86	Very early, small
Avans	Oh.E	116	90	30	2.57	6.3	3	3+	4	4	4	4-	4+	4	4.00	Very nice
345 Snow Crown	Har	84	100	40	2.71	6.3	4	4-	4	4	4	4	4+	4-	4.00	Extra early, good color
343 Self Blanche	Har	129	80	30	4.28	6.9	4+	4+	4-	4	4	4-	4+	4	3.94	Heavy, lge heads, not tied
339 Snowball Imperial	Har	103	100	30	3.60	6.7	3	3	4-	4-	4-	3+	3	4-	3.48	Lge, early, poor color
342 Snowball--Y	Har	108	90	60	3.25	6.3	3+	3+	4-	4	4	4-	4-	4-	3.76	Some hollow stem
Veroga	VDB	112	57	10	4.10	6.7	2+	3+	4-	3	3	3-	4+	3	3.34	Good size, poor quality
Somerfest	VDB	94	90	50	2.47	5.9	3	3+	4-	4-	4-	4-	4+	4-	3.82	Early
Roberna	VDB	106	100	30	2.35	6.4	4-	4-	4	4-	4-	4-	4	4	3.88	
Supra	VDB	148	40	20	2.85	6.5	3	3	4-	4	4	4-	4+	4	3.94	Not ready at Nov. 5th.
Sera	VDB	136	60	30	2.75	6.1	3-	3	4	4-	3	3	3+	2+	3.26	Very ricey
Delta	VDB	91	91	20	2.31	5.9	4	4	4	4	4	4-	4	3+	3.80	Early, ricey, good curd prot

CAULIFLOWER VARIETY TRIAL - 1975

Variety	Source	Days to best Harvest date	% Marketable Cut	% Once-over cut	Ave. Wt/Head (pounds)	Ave. Diam/Head (inches)	Curd Protection	Curd Discolouration	Uniformity	Compactness	Colour	Leaves in Head	Ricely	Overall Rate	Remarks
Blenda	VDB	116	100	30	3.16	5.8	3-	3	4-	4	4-	4	3+	3.74	
Roberna	VDB	108	100	70	2.40	6.4	3-	3+	4	4	4-	4+	4-	3.94	Nice
Delfter Markt	R.Zw	89	90	30	2.49	5.6	3	3	4-	4-	3+	4	4-	3.68	Early
Pionier	R.Zw	123	100	30	3.03	5.4	3+	3+	4-	4	4-	4+	4-	3.88	
Pomalta	Ro.B	116	60	40	2.60	6.2	3+	3+	3+	3-	3-	3-	3-	2.82	
Suprimax	Ro.B	101	91	40	2.72	5.9	3	4-	4	4-	4-	3+	4-	3.68	
Maxor	Ro.B	108	100	40	3.00	6.2	2+	3-	4	4-	4-	4-	4-	3.76	Hollow stems
Veralto	Ro.B	84	90	90	2.33	6.5	3-	3-	4-	4	4-	4+	3+	3.86	One early harvest date
Diana	DP	88	70	20	2.98	5.7	2+	3-	4-	4-	4-	4-	4-	3.70	Early
Brendo	DP	125	90	20	3.46	6.2	4-	4-	4	4	4-	4+	4	4.00	Good weight & quality
Early Snowball	FM	99	77	30	2.55	6.1	2+	3	3+	4-	4-	4-	4-	3.62	
Snowball II	FM	142	100	30	2.66	6.4	3+	3	4	4	4-	4-	4-	3.82	Some hollow stem
Snowball X	FM	140	100	30	2.60	6.6	3-	3+	4-	4-	4-	4	4-	3.76	
Snowball Y	FM	108	88	20	3.16	6.4	2+	3-	4-	4	4-	4-	4-	3.76	
Napo	Oh.E	150	90	50	4.36	7.3	--	--	4-	4	3+	3+	4-	3.60	Heavy, large heads

Notes:

Direct seeded June 6, non-replicated. Spacing 23" x 18"

Of each cv, 50% tied except "self blanche" and judged for quality and yield

50% not tied to judge natural curd protection

% marketable is the % of plants producing marketable heads

% once-over cut is the largest number harvested in one day

curd protection and curd discolouration are not included in the evaluation of overall rate.

5 = most desirable 1 = least desirable

This season, the late varieties were very slow maturing over an extended period of time.

CARROT VARIETY TRIAL - 1975

Variety	Source	Marketable Bushels/Acre	% Marketable	Stand/foot	Type	Tips	Roots		Uniformity		Resist. to Green.		Smoothness	Color		Core Size	Score
							Ave. Length (inches)	Ave. Width (inches)	Shape	Size	Shoulder	Core		Interior	Exterior		
Spartan Premium	MSU	1509	85	15	ND	B	7.3	1.6	4-	4-	3+	4	4-	4-	4	3.75	
Scarlet Nantes	Har	1467	90	16	N	B	5.9	1.5	4	4-	3	4-	4-	4-	4	3.64	
Spartan Classic	MSU	1454	89	11	DN	B	6.3	1.6	4-	4-	4-	4	4+	4-	4	3.86	
Klondike Nantes	Sto	1322	84	14	ND	BP	7.3	1.5	4	4-	4	4	4	4	4	3.85	
Dominator Hybrid	Key	1265	90	11	DI	P	7.6	1.4	4-	4-	4-	4	4	4	4	3.68	
Spartan Winner	MSU	1238	81	12	DN	BP	7.2	1.5	4-	4-	4-	4	4	4	4	3.83	
Spartan Sweet	Sto	1229	80	10	DI	P	8.1	1.6	4-	3+	4-	4	4	4-	4	3.76	
Spartan Fancy	Sto	1202	86	10	DI	PI	8.2	1.4	4	3+	4-	4	4	4	4	3.85	
Hi-pak	Har	1186	87	9	DN	BP	7.4	1.5	4	4-	4-	4	4+	4-	4	3.83	
Grenadier	Har	1120	84	9	DI	P	8.7	1.6	4-	4-	4-	4	4	4	4	3.80	
318 Pioneer	Har	1106	88	9	N	B	7.0	1.5	4	4-	3+	4+	4	4	4	3.76	
Spartan Delite	Asg	1059	75	9	DI	P	8.2	1.5	4-	4-	4	4	4-	4	4	3.84	
311 Hi-pak Elite	Har	1040	82	8	DN	BP	7.7	1.4	4-	4-	4-	4	4	4	4	3.71	
301 Trophy	Sto	1022	79	10	LDI	PB	8.4	1.4	4-	4-	4-	3+	4	4	4	3.72	
Canuck	Sto	1044	81	6	ID	IP	9.0	1.6	4	4-	4	4	4	4	4	3.87	
Imperator Long	Har	895	74	13	DI	P	7.6	1.5	3+	3+	4-	3+	4-	4-	4	3.44	
Gold Pak 28	F.M.	773	82	8	GP	P	7.8	1.4	4	4-	4	4-	4	4	4	3.83	
Royal Danvers	Agw	1467	81	6	D	BP	7.8	1.8	4-	4-	4-	4-	4+	4	4	3.86	
Spartan Bonus	Sto	1251	77	8	D	BP	7.6	1.9	4	4-	4-	4-	4	4	4+	3.88	
Danvers 125	Agw	998	64	5	D	B	7.4	1.9	4-	3+	4-	3+	4-	4-	4-	3.56	

CARROT VARIETY TRIAL - 1975

NOTES:

17 packaging and 3 processing varieties were seeded on May 20.  
 Per variety - 3 rows, replicated 4 times, rows 17", 12 feet long. Used a 2" split shoe  
 25 seeds/foot. Heavy rains on May 22. Stand irregular.

Harvested one replication on Aug. 22, another on Sept. 8, and the last two on Sept. 25.  
 The three processing types were harvested on Oct. 29.

Score: 1= least desirable 5 = excellent

Tips: I = Imperator, B = Blunt, P = Pointed

Type: C = Chantenay, D = Danvers, G.P. = Gold Pak I = Imperator N = Nantes

LN = Long Nantes

The varieties are listed in the order of yield.

Both Spartan Bonus and Royal Danvers produced excellent carrots with internal good color.

The highest early yield at Aug. 22 was obtained by Scarlet Nantes and Klondike Nantes  
 (1175/acre), Hipak (1070/acre) and Pioneer 1000/acre.

The highest late yield was produced by Spartan Premium (1509 bu/acre), Nantes (1467 bu/acre),  
 Spartan Classic (1415 bu/acre).

Combining appearance, score and length and yield, Grenadier, Sp. Fancy, Klondike Nantes,  
 Spartan Delite, Trophy and Hipak produced an excellent quality carrot.

\* \* \* \* \*

CARROT STORAGE TRIAL - 1975

The 19 cultivars of the 1974 variety trial were stored in a common storage in October  
 after being graded for defects, splits, forks etc.

In the spring, these were taken to cold storage and on April 15, judged for rot and cavity spot.  
 The results were:

Gold Pak 28	87% m/ble	Carousel	73% m/ble
Hipak Elite	85%	Danvers 126	72%
Canuck	84%	Hypack	71%
Grenadier	84%	Trophy	70%
Dominator	83%	G 1958	69%
Klondike Nantes	82%	Spartan Premium	69%
Gold Pak 61	78%	Pioneer	68%
Spartan Delite	77%	Packmaster	67%
Spartan Bonus	77%	Spartan Classic	63%
		Spartan Winner	61%

All varieties were affected by cavity spot to a varying degree.

CARROT ADAPTATION - 1975

BEST WIDTH AND LENGTH

Variety	Source	Length & Width (inches)	Yield B/A	Score	Type
(5931x1302)5986	MSU	8.9 x 1.3	2388	3.91	Pack
(5931x5986)107	MSU	8.0 x 1.4	1612	3.62	Pack
Trophy	Har	8.9 x 1.5	1506	3.78	Pack
Gold Pak Impr.	Sto	8.6 x 1.5	1216	3.70	Pack
(5931x1383)5986	MSU	8.3 x 1.5	1708	3.92	Pack
1315-91606K	Har	8.2 x 1.5	1525	3.74	Pack
(5931x6000)1302	MSU	8.0 x 1.5	1794	3.75	Pack
(5986x1383)1302	MSU	8.0 x 1.5	1506	3.91	Pack
(5931x6000)107	MSU	9.0 x 1.6	2197	3.81	Pack
Exp. 456	NK	8.5 x 1.7	2120	3.92	Proc.
1315 Exp. 9160, 6K	Har	8.5 x 1.7	1804	3.87	Proc
XP 557	ASG	8.5 x 1.7	1573	3.53	Proc
73W 231	Cro	8.3 x 1.8	1487	3.88	Proc
Hipak Elite	Har	8.1 x 1.8	2043	3.33	Pack & Proc.
XP 159	ASG	8.3 x 1.9	2341	3.83	Proc

CARROT ADAPTATION TRIAL - 1975

HIGHEST SCORE

Variety	Source	Score	Length & Width	Yld. B/A	Type
13C x 25 Exp.	FM	4.03	6.1 x 1.9	2446	Proc.
RS691114F	Ro.B	3.95	6.5 x 1.8	1784	Proc.
(5931x1302)5986	MSU	3.95	8.1 x 1.7	1535	Proc
Exp. 1315 9160 6K	Har	3.95	8.5 x 1.7	1804	Proc
Exp. 456	NK	3.92	8.5 x 1.7	2120	Proc
(5931 x 1383)5986	MSU	3.92	8.3 x 1.5	1708	Proc or Pack
74W 228	Cro	3.92	7.9 x 1.4	1525	Pack
(5931 x 1302)5986	MSU	3.91	8.9 x 1.3	2388	Pack
402/W33	PW	3.91	5.8 x 1.7	1689	Proc
74 W 83	Cro	3.91	7.3 x 1.4	1573	Pack
(5931 x 5986)1391	MSU	3.91	8.0 x 1.5	1506	Pack
Exp. 453	NK	3.91	6.4 x 2.2	1266	Proc
(5931 x 5986)1304	MSU	3.88	6.5 x 1.4	1583	Stand too thick
(5931 x 6000)1391	MSU	3.88	7.1 x 1.2	1813	Pack
73 W 231	Cro	3.88	8.3 x 1.8	1487	Proc
Spartan Sweet	Key	3.87	7.9 x 1.4	1938	Pack
74 W 99	Cro	3.87	6.3 x 1.6	1755	Proc
73 W 235	Cro	3.87	6.8 x 1.6	1659	Proc
(5931 x 1302)5988	MSU	3.85	7.3 x 1.7	2427	Proc



HIGHEST YIELD

CARROT ADAPTATION TRIAL - 1975

Variety	Source	Yield B/A	Length & Width	Score
Flakkeese	RZW	2811	7.2 x 2.1	2.62
3/401	PW	2456	5.3 x 1.8	3.75
13C x 25 Exp.	FM	2446	6.1 x 1.9	4.03
Exp. 471	NK	2427	7.9 x 1.7	3.63
(5931 x 1302)5988	MSU	2427	7.3 x 1.8	3.85
(5931 x 1302)5986	MSU	2388	8.9 x 1.3	3.91
XP 159	Asg	2341	8.3 x 1.9	3.83
Banta	Ch.E	2303	7.5 x 1.7	3.08
Danvers 126	Key	2303	6.7 x 2.1	3.41
729 136	Har	2226	6.6 x 1.8	3.83
491 x 74W113	Sto	2226	7.4 x 2.0	3.58
(5931 x 6000)107	MSU	2197	9.0 x 1.6	3.81
492 x 74W116	Sto	2187	7.6 x 1.9	3.75
Giganta	R.Zw	2158	6.0 x 1.4	3.32
(5931 x 1302)5988	MSU	2149	6.5 x 1.6	3.66
Exp.456	NK	2120	8.5 x 1.7	3.92
Hipak Elite	Har	2081	7.8 x 1.4	3.21
(872 x 9541)1322	MSU	2072	6.2 x 2.0	3.50
(5931 x 1304)5988	MSU	2053	6.4 x 1.5	3.20
Hipak Elite	Har	2043	8.1 x 1.8	3.33
R.S. 70900F	Ro.B	2025	7.0 x 1.6	3.41

SUMMARY OF CARROT VARIETIES - 1969 - 1975

Long term averages of some of the available carrot varieties tested in our trials.

Variety	Source	# Years	LTA Yield B/A	LTA % Mable	LTA Score
Spartan Classic	M.S.U.	3	1516	86	3.8
Spartan Premium	M.S.U.	3	1462	87	3.8
Spartan Winner	M.S.U.	3	1310	80	3.8
Spartan Sweet	M.S.U.	7	1282	79	4.2
Scarlet Nantes	Harris	7	1210	78	3.4
Hipak Elite	Harris	7	1207	84	3.8
Spartan Fancy	M.S.U.	7	1193	86	4.0
Highlight	Asgrow	5	1189	84	3.7
Spartan Delite	M.S.U.	7	1183	86	4.2
Grenadier	Harris	7	1176	82	3.9
Pioneer 318	Harris	7	1176	79	3.8
Carousel	Asgrow	6	1132	74	3.9
Dominator	Keystone	7	1130	85	3.8
Trophy (9160AN)	Harris	3	1123	83	3.8
Canuck	Stokes	7	1076	84	3.9
Gold Pak 28	F.M.	7	1032	84	4.0
Gold Pak 61	Keystone	6	995	85	4.1
King Emperor	N.K.	6	976	80	3.7
<u>Processing:</u>					
Spartan Bonus	M.S.U.	7	1309	81	4.3
G1958		6	1294	78	4.1

Score: The average of the evaluations - uniformity, resistance to greening, colour, ringing, straightness and core sizes, ie. - 1 = very poor variety  
5 = a very acceptable variety for the trade.

LTA = Long Term Average

BABY FINGER CARROT TRIAL - 1975

Variety	Source	Yield Ton/Acre					Shape	Uniformity	Smoothness	Ave. % of Baby Size	
		Aug. 13		Aug. 25		Total					
		1/2-3/4	3/4+	1/2-3/4	3/4+						
Coreless A'dam Forcing Sto	Sto	27.0	9.4	12.2	29.0	12.5	16.5	sl.taper	4	4-	40
Baby Finger Nantes	Sto	25.7	15.8	6.8	21.7	13.1	8.1	cyl	4+	4-	60
Nantes Slendero	R.S1	17.3	3.8	11.6	20.3	3.9	15.7	wedge	3+	4-	17
A'dam Foram Sel R.S.	R.S1	14.3	5.6	6.0	13.9	7.6	5.6	sl.taper	4-	4-	47
A'damse Bak Foram Sel R.S	R.S1	17.9	7.9	9.3	23.1	6.4	15.8	cyl	4	4+	35
A'damse Bak Minicore	R.S1	19.7	8.8	7.9	30.2	10.3	19.9	cyl	4	4	38
A'dam Bak	R.S1	16.3	5.9	9.4	21.3	11.3	8.3	cyl	4	4-	46
Little Finger	S.Gr	18.0	11.2	5.0	18.8	13.3	5.3	cyl	4+	4-	66
Sweetheart	Bee	28.1	19.2	12.4	29.3	19.6	9.4	cyl	4	4	67
Short N Sweet	Bu.S	13.9	.8	9.6	15.7	.7	2.6	wedge	4+	4-	4
Amstel	Cl a	22.8	11.3	8.4	29.4	13.6	15.3	cyl	4	4	48
Flastica #8	Dae	19.0	8.9	9.1	25.4	9.1	16.1	cyl	4	4+	40
Nanta	Bee	15.3	6.4	8.0	24.8	8.4	16.5	sl.taper	4+	4-	26
Carna	D.P	19.7	1.6	17.9	23.4	.8	23.1	sl.taper	4+	4	6
A'dam Grace	Oh.E	25.2	10.4	20.5	27.2	11.8	14.4	cyl	4	4-	41
A'dam Master	Oh.E	19.1	9.1	11.3	30.5	8.7	21.7	sl.taper	4	4-	36
Sucram	D.P.	25.4	15.1	9.5	--	--	--	cyl	4	4	59
A'dam Indu	Oh.E	19.3	8.1	10.9	--	--	--	cyl	4	4+	42

Notes: 18 varieties were seeded in minibeds 15 ft. long, each bed 12", consisting of 9 rows, beds 10" apart. Seeded on June 4 with a triple row Planet Jr. seeder. Plant density was 75/sq.ft by seeding 100 seeds/ft of bed. Best cvs in order of quality and shape were:

1. Plastica #8 = 9 T/A
  2. A'dam Indu = 8 T/A
  3. A'dam Foram = 8 T/A
  4. Baby Finger Nantes = 16 T/A
  5. Little Finger = 13 T/A
  6. Sucram = 15 T/A
  7. Amstel = 14 T/A
  8. Sweetheart = 19 T/A
  9. A'dam Minicore = 10 T/A
- \*\* Baby Finger & Little Finger produced a cylindrical root with a rounded base without a tap root, which makes them very desirable for fresh market packaging. The short weak tops make them less suitable for 'top-gripping' type of harvesters.

M.S.U. CARROT REPLICATED ADAPTATION TRIAL - 1975

Resist.

Variety	Mk.b.	Bu/A	N-Mk.b.	Bu/A	% Mkb.	Stand/foot	Culls		Roots		Type	Tip	Crown	Uniformity	Ringings	Smoothness	Color		Core Size	Shoulder		Score	Type	
							Small	Cracks	Forks	Av. length							Av. width	Interior		Exterior	Green.			Core
(5931x1302)5986	1063	195	84	10	*	*	8.6	1.4	I	I	4-	4-	4	4	4	4-	4-	4-	4-	4-	4-	4-	3.81	Pack.
Spartan Premium	1704	295	85	13	*	*	8.0	1.5	LDI	IP	4-	4-	4-	4+	3+	4-	4-	4-	4-	4-	4-	4-	3.71	Pack
(872x5931)1302	978	157	86	8	*	*	7.7	1.4	GP	I	3+	4-	4-	4-	4-	4-	4-	4-	4-	4-	4-	4-	3.67	Pack
(5931x5986)1302	940	184	84	10	*	N	7.9	1.3	I	I	3	4	3-	3+	4	4-	4-	4-	4-	4-	4-	4-	3.65	Pack
(3489x9555)1322	1353	165	89	12	*	*	6.7	1.5	DI	IP	2+	4-	4-	4-	3+	4-	4-	4-	4-	4-	4-	4-	3.66	Proc
(8549x5931)1302	1044	169	86	9	*	*	7.5	1.3	DI	I	3+	4	3+	4-	3	4-	4-	4-	4-	4-	4-	4-	3.64	Pack
(872x5931)5986	1454	157	90	10	N	*	8.1	1.4	ID	I	3+	4	3+	3+	4-	4-	4-	4-	4-	4-	4-	4-	3.59	Pack
Spartan Classic	1324	269	83	14	*	*	7.1	1.5	LDI	IP	4-	4-	4-	4-	4-	4-	4-	4-	4-	4-	4-	4-	3.56	Pack
(5986x1302)5988	1704	257	87	17	*	*	7.5	1.4	DI	IP	3+	4	3-	4-	4-	4-	4-	4-	4-	4-	4-	4-	3.55	Pack
(1322x872)9541	1255	353	78	13	*	*	6.4	1.6	DI	I	2+	4	3+	3+	3+	4-	4-	4-	4-	4-	4-	4-	3.54	Proc
(5931x9541)5986	1213	222	85	11	*	*	7.8	1.5	DI	I	4-	4-	4-	4-	3+	3+	4-	4-	4-	4-	4-	4-	3.50	Pack
(8549x5931)5988	1239	303	80	14	*	*	7.1	1.4	DI	IP	3-	3+	3+	3+	3+	4	4	4	4	4	4	4	3.49	Pack
(872x1311)9541	1055	215	83	12	*	*	6.1	1.7	DI	IP	3-	3+	3	3	3	4-	4+	4-	4-	4-	4-	4-	3.49	Proc

Notes:

- 1 = least desirable
- 5 = most desirable
- Crown not included in score
- 1 = hollow crown
- 5 = raised
- N = navel type of misformed root
- Pack = packaging type
- Proc = processing type

CELERY VARIETY TRIALS - 1975

A = Transplanted  
B = Late

Variety	Source	Trial	Marketable Yld Tons/Acre	% Trim Loss	Ave. Petiole lgth. (inches)	Ave. Stalk wth (inches)	Total lgth (inches)	Ribbing	% Seeders	Sucker growth	Crispness	Stringy	Compactness	Boron deficiency (scratch)	Storing ability
3036	FM	A	43	26	11.0	3.3	24.3	M	4	4	4	4	4	4+	2-
		B	48	21	10.0	3.1	25.0	MR	4	4	4	3.5	4-	4+	2-
8190	FM	A	50	22	12.1	3.4	25.5	MR	4-	4-	4	3+	4	4+	2-
		B	58	25	11.2	3.3	27.5	MS	4-	4	4	3.5	4-	4+	2-
8191	FM	A	42	24	10.2	3.2	24.7	M	4	4	4	4-	4-	4-	2
		B	50	25	10.0	3.2	26.0	MR	4	4	4	4	4	4+	2
373 Clean Cut	Har	A	53	25	12.0	3.6	27.0	MR	3+	3+	4	4-	4	4	3
		B	56	21	11.5	3.4	28.5	R	4-	4	4	4-	4	4	3+
H30	Har	A	46	31	12.1	3.4	26.7	M	4-	4-	4-	4-	4-	4	3
		B	59	22	11.2	3.6	27.5	R	3+	3+	4	4-	4	4	3+
H28	Har	A	48	26	11.9	3.3	24.5	M	4	4	4	4-	4	4	2
		B	64	23	11.7	3.8	27.0	MR	4-	4-	4-	4-	4-	4-	3+
H26	Har	A	44	32	11.6	3.5	25.2	M	2	4-	4-	4-	4	4	3
		B	53	26	10.7	3.5	26.5	MR	4-	4-	4-	4-	4-	4-	4-
Improved Utah 52-70	Sto	A	47	28	12.0	3.5	25.0	MS	4	4	4	4	4-	4	4
		B	49	23	11.0	3.6	26.0	MR	4-	4-	4-	3+	4-	4-	4-
Calmario	Nia	A	50	22	10.7	3.4	23.8	M	3+	3+	4	3+	4-	4	4+
		B	54	17	10.7	3.6	26.0	MR	4-	4-	4-	3.5	4	4	4
Florida 683	Sto	A	51	25	10.4	3.6	23.8	M	3+	3+	4-	4-	4-	4	4+
		B	57	18	9.5	3.6	25.0	R	4	4	4-	3.5	4-	4	4
52-70 213	Key	A	49	28	11.9	3.5	26.4	M	1.75	4-	4	4-	4	4-	4
		B	48	20	10.7	3.6	26.5	M	4	4	4-	4-	4	4-	4-

CELERY VARIETY TRIALS - 1975

Variety	Source	Trial	Yield Tons/Acre	% Trim Loss	Ave. Petiole Lgth (inches)	Ave. Stalk wth (inches)	Total length (inches)	Ribbing	% Seeders	Sucker Growth	Crispness	Stringy	Compactness	Boron deficiency (scratch)	Storing ability	
52-70 R Improved	Key	A	49	23	11.0	3.5	24.9	M		4-	4	4-	4-	3+	3+	
		B	52	19	10.2	3.4	25.5	R		4	4	4-	4-	4	4	
Beacon	Sto	A	40	26	9.7	3.3	21.0	MR		4-	4	4-	4-	3	3	
		B	30	39	8.2	3.0	22.5	MS		4	4	4-	3+	4	4	
Earlibelle	Key	A	46	27	10.1	3.2	23.6	MR		4-	4-	4-	3+	4	4	
		B	45	24	10.2	3.2	24.0	S		4-	4-	4-	3.5	4	4	
Junebelle	Key	A	45	26	10.7	3.4	24.2	M		4-	4	4-	4-	4-	4-	4-
		B	49	22	9.7	3.5	24.5	M		4-	4-	4-	4-	4-	4-	4-
Processor	Key	A	50	28	12.5	3.4	25.9	M	3.5	4	4	4-	4	4+	4	
		B	46	29	11.5	3.3	25.5	MR		4-	4	4-	4	4	4	4
Florida 2-13	FM	A	43	26	11.1	3.2	25.1	M		4	4	4	4-	4-	4-	4
		B	50	23	11.0	3.2	24.0	R		4-	4	4-	4-	4-	4	4
Florimart 19	Key	A	40	26	10.4	3.5	19.7	MR		4	4	3+	4-	3-	4+	
		B	36	27	9.7	3.2	20.0	S		4-	4-	3	3+	3+	4+	4
Florida 2-14	Key	A	46	26	12.5	3.4	24.6	M		4	4	4	4	4	4	
		B	51	21	10.5	3.6	26.0	M		4	4	4-	4-	4-	3+	4
Florida 2-13	Key	A	48	25	11.2	3.3	25.6	M		3+	4	4-	4	3+	4	
		B	46	25	10.7	3.5	25.5	R		4	4	4	4-	3	4	
Tendercrisp	FM	A	41	25	11.6	3.3	22.7	S		4+	4	4-	4-	4-	4-	
		B	48	20	10.2	3.6	24.0	MS		4-	4-	4-	4-	4	4	3
Tall Forkhook	FM	A	33	39	12.2	3.2	23.2	S		3+	4	4-	3	1	1	
		B	35	39	11.5	3.1	23.0	MS		4-	4	3+	3-	1	1	

CELERY VARIETY TRIALS - 1975

Variety	Source	Trial	Mkble Yield Tons/Acre	% Trim Loss	Ave. Petiole lgth.(inches)	Ave. Stalk wth(inches)	Total length (inches)	Ribbins	% Seeders	Sucker Growth	Crispness	Stringy	Compactness	Boron Deficiency (scratch)	Storing Ability
Tall Green Light	Har	A	43	30	11.1	3.5	24.2	MS	2.5	4	4	3+	3+	4	
		B	42	20	10.0	3.3	24.5	MS		4	4-	3.5	3.5	4	4+
Eurepak	FM	A	51	24	11.6	3.4	25.7	M		4-	4	4	4	4	
		B	39	28	11.2	3.2	25.0	R		4-	4	4-	4	4+	4
Tall Utah 52-70-H	FM	B	50	24	10.2	3.4	25.5	MR		3.5	4-	4-	4-	4	
15C-9	FM	B	43	14	11.2	3.0	24.5	R		4	4	4-	4	4	4-
Florida 683 Imprd.	Key	B	45	14	9.7	3.4	24.0	R		4	4-	4-	3.5	4	4
Utah 52-75	Asg	B	39	14	9.2	3.1	21.5	MS		4	3.5	3.5	3.5	4-	3

NOTES:

A: 24 Varieties were seeded in the greenhouse on March 20, transplanted on April 21 into flats, and transplanted to the field on May 12. Row spacing was 23 inches, plants 7 inches apart. Harvesting took place on July 22 and 29, Aug. 5 and 11. Best performing varieties in regards to trimmed yield/acre, length and quality were:

Clean Cut (H30) 53T/A Pet.length - 12"  
 Florida 683 51T/A Pet.length - 10.4"  
 8190 50T/A Pet. length - 12.1"

B: For the late trial, 28 varieties were seeded in flats on May 1, and transplanted to the field on June 17. Harvesting was done Sept. 8, 24 and 26. The following varieties scored the highest marks for yield, quality and length of petiole:

H28 63T/A Pet.length - 11.7"  
 Florida 683 56 T/A Pet. length 9.5"  
 Storage Trial

C: Storage Trial

24 varieties were placed in refrigerated storage on Sept. 29. Part of each lot was stored after a field spray application with 1 lb. Benlate in 200 gal.water/acre, and some varieties were also dipped in 1 lb.Benlate/100 gal.water for 30 seconds. The spray application reduced the storage loss by 37½ to 50% when judged on Dec.18. The dipping reduced the loss by 40-66%. The differences in the keeping ability of the varieties are marked in the last column of the late trial.

A = Transplanted March 21  
 B = Early seeded May 7

LETTUCE VARIETY TRIAL - 1975

C = Midsummer June 9  
 D = Late summer July 21

Variety	Source	Trial	Days to harvest	% mkb.	Reason non-mkb.	Av.wt. 18 heads	Av.diam.(ins.)	% tipburn	Bottom rot	Firmness	Uniformity	Int.stem length	Overall rate	Remarks
Pennlake	Sto.	A	96	67	Bot.rot	70	7.2	50	3-	4	4	S	2-	Too much tipburn & rot(still soft)
71-146	MSU	A	94	97	Soft	55	6.4	66	4+	4	4	S	3-	Developed tipburn & slime very quickly
Empire	Key.	A	96	97	Soft	59	7.0	7	4+	3	4-	S	3+	Does not firm up, oval shape
		D	81	17	Too small									
Ithaca	F.M.	A	94	100	Good	52	6.3	33	4	3+	4-	S	4-	V.nice, tipburn in last harvest, still marketable
		B	61	93	Soft	41.4	6.4	0	4+	4-	4	S	4	Nice
		C	58	93	Bot.rot	37.8	6.2	13	4-	4-	4+	M	4	
Fulton 515	Har.	A	90	93	Split	50	6.3	3	4	4	4	S	4	Very nice
		B	61	83	Bot. rot	41.4	6.2	7	3+	4	4-	S	4-	Some bottom rot
		C	58	90	Bot. rot	39.6	6.7	0	3+	4-	4-	M	4-	
		D	81	0	Too small									
Portage(T15)	Har.	A	90	80	Bot.rot, spl.	50	6.10	13	4-	4	4+	S	4-	Nice lettuce, good color
		B	61	100		39.6	6.0	7	4+	4	4	S	4	Very nice
		C	58	97		39.6	6.3	13	3+	4	4	M	4	Nice
		D	81	8	Too small									
Fairton 516	Har.	A	96	90	Split	66	7.1	0	4+	4	4	S	4	Good, maturing slightly uneven
		B	63	93	Soft	37.8	5.9	20	4+	4	4-	S	4-	Good, slightly small
		C	59	93	Soft	39.6	6.5	13	4-	4	4	M	4	Nice
		D	81	3	Too small									



LETTUCE VARIETY TRIAL - 1975

Variety	Source	Trial	Days to harvest	% mkb.	Reason non-mkb.	Av.wt. 18 heads	Av.diam.(ins.)	% tipburn	Bottom rot	Firmness	Uniformity	Int.stem length	Overall rate	Remarks
Minetto	Sto.	A	94	97		45	5.8	0	4+	4	4	S	4-	Beautiful but too small
		B	61	100		33.6	5.8	0	4	4+	4	S	4-	Very small
		C	58	53	Bot.rot	32.4	5.7	0	2	4	4	M	3+	Bottom rot
Imperial 456	Sto.	A	98	90	Slime	59	6.8	47	4	3	3	S	3-	
		B	65	83	Soft & sl.	41.4	6.2	40	4+	4-	3+	S	3+	
		C	60	90	Seeder	37.8	6.4	0	4-	3	3+	L	3	Going to seed
		D	81	0	Too small									
Spartan Lakes Key.	Key.	A	94	77	Split	45	6.0	0	4	4	4	S	4-	Good looking but small
		B	61	97		36	6.3	0	4+	4	4	S	4-	Nice but small
		C	58	100		34	6.0	-	3+	4-	4-	S	3+	Too small
Mesa 659	Har.	A	96	70	30%slime	61	6.5	60	3+	4-	4-	S	2-	
		B	63	93	Soft	43.2	6.3	46	4	4-	4-	S	3+	Too much starting of tipburn
		D	81	42	Too small									
Mesa 409	Twi.	A	96	73	Bot.rot & slime	.63	6.8	40	3+	3+	4-	S	2	
		B	68	70	Soft	37.8	5.9	30	4+	3-	3	M.S.	3	Slow maturing and soft
Ithaca	Asg.	B	61	93	Soft	43.2	6.4	-	4+	4	4	S	4+	Nice
		C	58	97		39.6	6.4	-	4	4-	4	L	4	Going to seed but still nice
		A	98	87	Slime,bot. rot	64	7.1	27	3+	3	3+	L	3-	Developes bottom rot quickly
Calmaria	Sto.	B	63	90	Soft	46.8	6.3	7	4+	3+	L	3+	3+	Soft type
		C	59	95		45	6.3	-	4	3-	4-	VL	2	All seeders
		A	98	87	Slime,bot. rot	64	7.1	27	3+	3	3+	L	3-	Developes bottom rot quickly



LETTUCE VARIETY TRIAL - 1975

Variety	Source	Trial	Days to harvest	% mkb.	Reason non-mkb.	Av.wt. 18 heads	Av.diam.(ins)	% tipburn	Bottom rot	Firmness	Uniformity	Int.stem length	Overall rate	Remarks
Portage	Asg.	B	63	97		39.6	6.3	-	4+	4+	4	S	4	Very nice
		C	58	100		41.4	6.4	-	4	4+	4+		4+	Excellent
Minetto	F.M.	B	61	100		30.6	5.1	13	4+	4+	4	S	3+	Very nice but too small
		C	58	80	Bot. rot	27	5.5	-	3-	4	4-	L	3+	Bottom rot
Fulton	Asg.	B	61	100		39.6	6.4	7	4+	4	4	S	4	Very nice
		C	58	83	Bot. rot	41.4	6.4	7	3	4	4+	M	4-	Nice but bottom rot
Oasis	Asg.	B	65	93	Soft	48.6	6.5	27	4+	4-	4-	S	4-	Too much slime & tipburn
		C	63	73	Slime	43.2	6.2	80	4-	4-	3+	L	3-	
Oswego	Key.	B	61	97		39.6	6.3	33	4	4-	4-	S	3+	Tipburn inside, but still mkb.
		C	58	83	Bot.rot & slime	39.6	6.3	7	3+	4-	4	M	3+	
Gr.Lakes 659-700	Asg.	D	81	25	Too small									Some tipburn
XP781B	Agw.	B	Does not mature, not suitable for this climate											
		C	100			50.4	6.8	40	4-	3	4-	VL	3	100% seeders (only one rep.)
Evergreen	Sto.	C	59	60	Slime	46.8	6.1	60	3+	3	3+	L	2-	Brown ribs, going to seed
		D	81	32	Too small									One of the better late varieties
Fairton	F.M.	B	65	97		45	6.4	27	4+	4+	4	S	4	Good
		C	59	93	Soft	37.8	6.3	-	4-	4	4	M	4	Nice
Gr.Lakes R200		B	65	97		48.6	6.4	73	4+	3+	4-	M	3	Soft
		C	63	80	Slime	45.8	6.6	90	4-	4-	4-	VL	2-	Too much slime, tipburn & seeders
		D	81	38	Too small									One of the better late cvs.

LETTUCE VARIETY TRIAL - 1975

Variety	Source	Trial	Days to harvest	% mkb.	Reason non-mkb.	Av.wt. 18 heads	Av.diam.(ins.)	% tipburn	Bottom rot	Firmness	Uniformity	Int.stem length	Overall rate	Remarks
Mesa 659	Asg.	B	61	100		41.4	6.4	40	4+	4-	4-	S	3+	Tipburn
Minilake	Sto.	B	61	97		41.4	6.2	20	3	4+	4	S	4-	

Notes: 34 cultivars.

A = seeded greenhouse March 21  
transplanted to flats April 8  
transplanted to field May 9, single rows, 20 ft., 3 replications.  
harvested June 19 to 27.

Best in order of days to harvest: Fulton (90 days), Portage (90 days), Ithaca (92 days),  
Fairton (96 days).

B = seeded May 7  
harvested July 7 to 11. Single rows, 20 ft., 3 replications.

Best in order of weight of 18 heads: Ithaca (43lbs), Fairton (42lbs), Fulton (39lbs),  
Portage (38lbs), Spartan Lakes (38lbs).

C = seeded June 9  
harvested August 6 to 11. Single rows, 20 ft., 3 replications.

Best quality in order of weight: Portage (41 lbs), Fulton (39lbs), Ithaca (38lbs), Fairton (38lbs).

Most of the remaining varieties developed seedstalks in the head to a varying degree due to  
prolonged hot weather. Very little or no tipburn was found.

D = a late trial of ten cultivars was seeded on July 21 and harvested on October 10. None reached  
commercial size. The better ones were Mesa 659, Great Lakes 200 and Evergreen.

ONION VARIETY TRIAL - 1975

Variety	Source	Days to Maturity	Yld.No.1 lge Bags/Acre	Yld.No.1 sml. Bags/Acre	Yld. Culls Bags/Acre	% No.1 lge. by wt.	% No.1 over 2" by wt.	% No.1 over 2" by number	Stand/foot	Av. bulb wt. No.1 lge(gms)	Shape	Firmness	Uni-formity		Color	Skin Thickness	Skinning	Neck Finish	Score
													Size	Shape					
Simcoe Fl.Hyb.	Des	101	745	57	11	92	81	61	9	116	G	4+	3+	4	4	4-	4	4	3.90
Pronto S	Asg	104	815	26	54	91	85	71	8	129	G	3	4-	4-	3+	3-	4-	4-	3.34
Aut.Spice	Sto	104	689	36	62	88	79	61	10	98	G	4	3+	4	4-	3+	4-	4-	3.67
Rocket	Asg	106	374	33	16	95	89	70	8	142	GO-G	4-	4-	4-	4-	4-	4-	4-	3.64
Garnet	Asg	107	918	28	230	78	73	71	10	122	G	4-	4-	4-	4-	4-	4-	4-	3.70
Spartan Era	Sto	108	856	14	59	92	86	75	9	126	G	4	3+	4-	4-	3+	3+	3+	3.57
Nutmeg	Har	108	851	21	46	93	88	78	9	125	G	4-	3+	4-	4-	4-	4	4	3.68
Buccaneer	Har	108	743	18	46	92	87	77	7	127	G	4-	4-	4-	4-	4-	4-	4-	3.64
Fawn Preview	Fl	109	792	38	23	93	88	72	8	131	G	4-	4-	4-	4	4-	4-	4-	3.74
Mucker Fl	Des	110	1135	11	14	98	95	87	8	165	GH-G	4	4+	4	4+	4	4	4-	4.04
Trapp's #3	Trp	110	904	7	18	97	94	85	9	125	G	4	4	4	4-	4	4	4-	3.95
Trapp's #6	Trp	110	894	19	82	90	74	71	9	127	G	3+	4-	4-	4	4	4	4-	3.72
Canada Maple	Sto	112	974	31	73	90	82	70	10	124	GO	4	4	4	4	4-	4-	4-	3.87
Mustang	Har	112	856	28	29	94	88	73	9	125	G	4-	3+	3+	4-	4	4	4-	3.62
Storage King	Sto	112	856	48	59	89	81	66	9	123	G	4-	3+	4-	3+	3+	3+	3+	3.47
Sunburst	Asg	114	482	9	282	62	61	69	5	137	G	4-	4-	4-	4-	4	4	4-	3.74
Gladiator	Key	116	1166	29	38	95	77	77	10	152	GO	3+	4-	3+	3+	4-	4-	3+	3.38
Prospector	Agw	116	943	16	228	80	73	73	9	147	GO	3	3+	3+	3+	4-	4	3	3.37
Exporter	Sto	117	653	16	82	90	86	75	6	138	G	4-	4-	4-	4-	4-	4-	3+	3.64
Ontario L	Asg	117	625	5	115	84	82	79	5	154	G	3-	4	3+	4-	4-	4+	3+	3.57

NOTE: On May 2nd, 20 varieties were seeded with 2" split shoe Planet Jr. seeder, 3 rows per cv, replicated 4 times. Heavy rains caused a thin stand (see stand/foot) and a moist month of August made for a large size bulb on all varieties. In general, the bulbs were not as firm as other years, while the color on the later maturing varieties was not quite as good. The onions matured very slowly and some skin rot was found in storage.

ONION VARIETY TRIAL - 1975 - GRAND BEND

Variety	Source	Days to Maturity	Yield #/1 Lge.	Yield #/1 Sml.	Yield Culls	Remarks
Autumn Spice	Stokes	108	538	100	8	Standard cv.excellent quality
Pronto S	Asgrow	112	834	42	19	Very few skins, soft
Canada Maple	Stokes	112	726	123	8	Good quality, med-small
Rocket	Asgrow	112	681	130	7	Med-lge. good quality
Spartan Era	Stokes	112	603	104	0	Very hard bulbs, exc.quality
Mustang	Harris	114	807	50	4	Very hard bulbs, some basal rot
Nutmeg	Harris	114	673	77	0	V.h.bulbs, beautiful, exc.quality
Trapp's '16	Trapp	114	619	111	0	Good quality, deep brown colour
Garnet	Asgrow	116	819	26	16	Uniform, med-large bulbs, v.g.qual.
Buccaneer	Harris	116	630	115	4	Necks large, very uniform
Trapp's #8	Trapp	116	627	84	0	V.h.bulbs, exc.neck finish, med-sm.
Simcoe	Dessert	118	792	53	23	Susc.to basal rot, v.h.bulbs
Fawn Preview	F.Morse	118	561	71	27	Dark color, variable size
Storage King	Stokes	120	692	65	23	Not many skins, med-lge, uniform
Sunburst	Asgrow	120	776	100	20	Brown, hard, suscept to basal rot
Prospector	Agway	122	745	81	77	Soft, med-lge, some doubles, late
Gladiator	Keystone	122	738	134	0	Honey gold color, med., late
Mucker	Dessert	122	723	61	0	Uniform, hard bulbs, v.g.qual., late
Exporter	Stokes	124	723	20	15	Late maturity, large necks
Ontario L	Asgrow	124	676	12	88	Soft, doubles, some sour skin, late
Imp.Aut.Spice	Grower	126	700	92	19	Med.size, gd.qual., late mat., doubles

NOTE: The layout of this trial is an exact replicate of the one at the Muck Research Station, except that Imp. Autumn Spice has been added. Due to wet weather and water on the field, some varieties did not do as well as could be expected.

## FUSARIUM BASAL ROT TRIAL - PORT COLBORNE - 1975

Variety	Source	Foliage Discoloration	Maturity	Size	% Fusarium	Remarks
Sapporo-Ki	Hokkaido	4	3+	3+	6.45	
W404A (W202B M W4B)	W.S.U.	4	3+	3	1.09	
BREA (W202B M W4B)	W.S.U.	3	3-	3+	4.54	
W101A (W202B M W4B)	W.S.U.	-	4-	3-	4.26	
W205A (W202B M W4B)	W.S.U.	1	3-	4-	4.63	
W202A (W202B M W4B)	W.S.U.	5	3-	2+	0.83	2nd best Fusarium resist.
W404A (M826A x WD7C)	W.S.U.	5	2+	3+	7.24	
W202A (M826A x WD7C)	W.S.U.	5	3-	3	3.25	
Fusario	W.S.U.	5	3-	3-	0.24	Best for Fusarium resist. Suscept. to foliar discolor
(W202A x 404B)x W205B	W.S.U.	2	3-	3-	12.91	
W101A x W205PRM	W.S.U.	-	3	3-	14.21	
W202A x W205PRM	W.S.U.	1	3-	3+	3.97	
BRBA x W205PRM	W.S.U.	1	3-	3	18.60	
W404A x W205PRM	W.S.U.	3	3+	2+	10.50	
Pronto S	Stokes	4	4-	3-	25.09	
Sunburst (coated)	Asgrow	3	4-	3-	31.32	

SUMMARY OF ONION VARIETIES - 1969-1975

Comparison of performances - long term averages compared to last year's averages of some of the available varieties tested in our trials.

Variety	Source	# Years	Yield B/A		Days to Maturity		Firmness	
			L.T.A. 69-74	75	L.T.A. 69-74	75	L.T.A. 69-74	75
Gladiator	Key	6	1123	1166	117	116	4-	3+
Spartan Era		4	1122	856	120	108	4+	4
Summit	Har	3	1114	*	122	*	3+	*
Bronze Age	F.M.	2	1067	*	119	*	3+	*
Exporter	Sto	6	1052	653	114	117	3+	4-
Northern Oak	Sto	4	1051	*	119	*	4	*
Ontario L	Asg	4	1045	625	111	117	4-	3-
Nutmeg	Har	4	948	851	110	108	4+	4-
Mustang	Har	6	940	856	108	112	4	4-
Golden Laker	F.M.	4	937	*	113	*	4	*
Trapp's #6	Trp	5	937	894	111	110	4	3+
Garnet	Asg	5	934	918	109	107	3+	4-
Rocket	Asg	6	923	874	108	106	4-	4-
Canada Maple	Sto	6	916	974	113	112	4+	4
Fawn Preview	F.M.	3	905	792	109	109	4	4-
Buccaneer	Har	6	897	743	110	108	4	4-
Copper Cache	F.M.	2	880	*	111	*	4	*
Muck Master	Twl	3	868	*	109	*	4+	*
Sunburst	Asg	5	850	482	111	114	4	4-
Paydirt	N.K.	3	847	*	121	*	4+	*
Ace Globe	Twl	2	839	*	109	*	4	*
Imp. Aut. Spice	Sto	5	760	*	109	*	4	*
Aut. Spice	Asg	6	734	689	107	104	4+	4
Canada Granite	Sto	2	717	*	116	*	4	*
Aut. Bronze	F.M.	2	713	*	115	*	4	*

\* = No data available

Maturity

Early 102 - 109 days  
 Medium 110 - 114 days  
 Late Medium 115 - 119 days  
 Late 120 - up

Firmness 1 - 5

5 being a very hard bulb; also it indicates storage ability

L.T.A. = Long Term Average



SPANISH ONION VARIETY TRIAL - 1975

A= Transplanted  
B= Direct Seeded

Variety	Source	Trial	Date Tops down	Total B/A	% non-mkble	3" & up B/A	% 3" & up	2--3" B/A	Shape	Colour	Uniformity	Neck Finish	Skin tightness	Firmness	Skin rot	Score
Cima	Har	A	Sep. 6	1120	38	694	62		HG	Y	4	4	3+	4-	3+	3.66
	Har	B	Sep. 18	737	58	298	40	7	G	Y	4-	4	4	4+	4	4.00
Fiesta	Sto	A	Aug. 18	626	46	289	46	49	G	Y	4	4	4-	4	4	3.94
	Sto	B	Sep. 4	517	46	190	37	74	G	Y	4	4	4-	4	3+	3.80
Chieftain	Sto	A	Sep. 15	637	43	358	56	0	G	DY	4	4-	4	4-	4-	3.82
	Sto	B	Sep. 24	540	73	134	25	13	G	Y	4	4-	3+	4	3-	3.54
Spanish Beauty	FMC	A	Sep. 3	495	37	278	56	21	G	DY	3+	4	4-	4	4	3.80
	FMC	B	Sep. 24	552	56	229	41	15	G	DY	4-	4	3+	4	4-	3.74
Riverside Sw. Spanish	Sto	A	Sep. 18	755	46	389	52	22	G	Y	4-	4-	4	4	3+	3.74
	Sto	B	Sep. 23	630	50	260	41	47	GF	Y	4-	3	3+	4	4-	3.54
Yellow Hyb. Spanish	Sto	A	Aug. 22	820	52	387	47	0	G	B	4-	4	4-	4	3+	3.74
	Sto	B	Sep. 23	620	66	212	34	0	G	Y	4	4-	3+	4+	3	3.66
Yellow Hyb. Spanish	Sto	A	Aug. 26	868	48	382	44	53	G	Y	3+	4	3+	4	3-	3.46
	Sto	B	Sep. 23	538	53	237	44	15	G	B	4-	4-	4	4	4-	3.82
Yellow Spanish (Peckham)	Sto	A	Sep. 22	1288	71	370	29	0	FG	Y	4-	3+	3+	3+	2-	3.06
	Sto	B	Sep. 22	634	68	202	32	0	G	Y	3	3+	4	4	4-	3.60
Yellow Sw. Spanish	Sto	A	Aug. 5	337	87	44	13	0	G	Y	3+	3	3+	3+	3	3.18
	Sto	B	Aug. 5	112	100	0	-	-	-	-	-	-	-	-	-	-
620 Yellow Sweet Spanish	Har	A	Aug. 30	767	78	170	22	0	G	Y	4	4-	3	4	4-	3.68
	Har	B	Sep. 18	525	65	110	21	7	G	DY	3+	4-	3+	4-	3+	3.46

SPANISH ONION VARIETY TRIAL - 1975

Variety	Source	Trial	Date Tops down	Total B/A	% Non-mkble	3" & up B/A	% 3" & up	2-3" B/A	Shape	Colour	Uniformity	Neck Finish	Skin Tightness	Firmness	Skin Rot	Score
Hyb. Onion 1620 Pedro	Har	A	Aug.27	637	49	290	46	35	HG	Y	4-	4	4-	4-	4-	3.76
	Har	B	Sep.24	532	50	230	43	37	HG	DY	4-	4	4-	4	4-	3.82
Crystal White Wax	Key	B	Sep.11	115	100	-	-	--	-	-	-	-	-	-	-	---
Southport White BGlobe	Key	B	Sep.23	560	86	72	13	7	FG	W	4	4	4	4	4-	3.94
	Key	B	Sep.23	725	36	467	64	0	HG	DY	4-	4-	4	4+	4	3.94
Explorer #7	FM	B	Sep.3	422	52	71	17	151	G	Y	4	4	4	4	4+	4.06
Yellow Sw.Spanish (Peckham)	Asg	B	Sep.24	682	75	170	25	0	G	DY	4	3+	4-	4-	3+	3.60

A - Transplanted: 11 cvs seeded March 25, 1975 in greenhouse (late date due to postal disruptions). Transplanted to field May 25. Single rows 17" apart, 10 feet long, 3 reps. Planted 6" apart in the row.  
Best in order of date of tops down:

1. Fiesta 289 bags 3" and up. Aug. 8
2. Yellow Hyb.Sp. 387 bags 3" and up. Aug.22
3. Spanish Beauty 287 bags 3" & up, Sept.3
4. Cima 694 bags 3" & up, Sept.6
5. Chieftain 358 bags 3" & up, Sept.15
6. Riverside sp. 389 bags 3" & up Sept.18.

B - Direct Seeded: 16 cvs seeded May 7, 1975 with Planet Jr. Seeder, single rows, 10 feet long, 3 reps, onions not thinned.  
Best in order of dates of tops down:

1. Explorer #7 71 bags 3" & up, Sept. 3. Stand per foot = 17
2. Fiesta 190 bags 3" & up, Sept.4, Stand per foot = 15
3. Cima 467 bags 3" & up, Sept. 18. Stand per foot = 15

On the average, the direct seeded varieties matured 2 weeks later than the transplanted ones. Most of the direct seeded cvs were too late to produce a quality onion unless they had special drying and curing treatments. The late maturing direct seeded varieties were cured in the greenhouse and topped later.

Note: 1 = poor 5 = excellent

HG = High Globe FG = Flat Globe DY = Dark Yellow B = Brown

ONION ADAPTATION TRIAL  
SUMMARY

<u>Highest Scores</u> <u>Variety</u>	<u>Source</u>	<u>Days</u>	<u>Bags</u>	<u>Score</u>
Explorer #9	FM	109	838	3.95
NC x 103	Nia	112	950	3.85
Super Spice	Sto	104	415	3.31
Hyb. 70M141	Cro	119	745	3.77
Fusario 24	WSU	139	430	3.75
Canada Granite	Sto	109	745	3.72
Gambler	Agw	109	861	3.67
Hyb. 167	Cro	109	899	3.67
Explorer #1	FM	109	1192	3.67
Explorer #4	FM	111	1099	3.67
Hyb. 202	Cro	109	484	3.62
Hyb. 166	Cro	109	707	3.61
Hyb. D5551	Har	109	1014.75	3.61
<u>Highest Yield</u>				
Exp. 5	FM	119	1322	3.14
Exp. 3704	Key	119	1315	3.27
Exp. 1	FM	109	1192	3.67
Spartan Sleeper	Trp	112	1184	3.47
XP 45	Asg	101	1153	3.27
Cima	Key	115	1145	3.10
Hyb. 1426	Har	109	1107	3.27
Expl. 4	FM	111	1099	3.67
Cima	Key	112	1022	2.75
Hyb. 5551	Har	109	1015	3.61
<u>Earliest Maturing</u>				
XP 45	Asg	101	1153	3.27
XP 75	Asg	101	800	3.11
Autumn Spice	Sto	101	600	3.10
Hyb. 168	Cro	101	407	3.04
XP 73	Asg	101	415	3.10
Hyb. H207	Cro	104	953	3.04
XP 25	Asg	104	868	3.18
Augusta	JJ	104	792	3.20
Imp. Autumn Spice	Sto	104	769	3.04
Explorer #6	FM	104	700	3.54
Hickory	Sto	104	577	3.37
Super Spice	Sto	104	415	3.81

M.R.S. POTATO VARIETY TRIAL - 1975

Variety	Marketable Bushels/Acre	% Culls	Reason Culls				Off-Shape	# Marketable tubers/foot	Shape	Colour	Eye Depth	Remarks
			Small	Green	Growth Cracks	Cracks						
Chieftain Superior	785 655	7 11	* *	* *	* *	* *	8.3 6.6	RF RF	BR OW	MD D	Skins Shatters	
G6442 Kennebec	578 572	12 17	* *	* ***	* *	* *	6.0 6.0	RF O	OW OW	D MD	Much greening	
Norchip G6880	556 446	10 14	** **	** *	* *	*	7.5 5.4	R RF	W OW	MD D	Loss of colour in storage	
York Wauseon	439 429	9 10	** *	* *	*	*	5.0 4.0	RF RF	OW OW	S D	Uniform Skins a bit	
Abnaki Cobbler	426 400	7 11	* **	* *	*	*	4.0 5.0	RF RF	OW OW	D D	Irregular	
Norgold Russet Ontario	327 222	16 12	*** ***	* *	*	**	3.5 3.3	RO O	RU W	S MD	60% secondary tubers	
Netted Gem	182	20	***	***	***	**	2.4	O	RU	S	Small size	

Notes: Shape: R = Round F = Flat O = Oblong  
 Color: RU = Russet BR = Bright red W = White OW = Off White

Planted: May 26 at 8" spacing in the row except Netted Gem, 12 inches, rows 34" apart.  
 Irrigated: 5 times to provide approximately 1" water per week including rainfall.  
 60% of the seed pieces of the Ontario variety produced secondary tubers, reducing the final yield considerably  
 The Norchip variety loses some of its white colour in storage.

Variety	Cover	Days to Harvest	Mkbspears /100 roots planted	Reason non-mkble.		Wt/spear (grams)	Overall lgth (cms)	Overall width (cms)	Color	Tip burn	Firmness	Score	Remarks
				Rot (%)	% Multiple spears etc								
1. Selectie R.Z.B.	With	26	78	7	15	137	16	5	c.w.	4	3+	87	Nice heads
2. Extrema	"	26	56	24	20	150	14	6	c.w.	4	4	95	Centre section roots rotted, otherwise excellent spear
3. Dubbel-Blank	"	26	69	27	4	130	18	4	c.w.	3	4-	80	Centre section roots rotted, v.n
4. Prezo	"	26	64	22	14	130	15	5	c.w.	3	4-	80	Centre section roots rotted, some past maturity
5. Midzo	"	26	90	7	3	168	15	5	c.w.	2	4+	80	Some past maturity
6. Solex Early	None	32	95	0	5	106	14	5	y.w.	4	4-	87	Some past mat. Good qual. heads
7. Solex Semi-early	"	32	96	2	2	112	12	5	y.w.	4	3	81	
8. Solex - late	"	32	100	0	0	118	11	5	y.w.	3+	3+	78	
9. Predeka #40	"	32	98	2	0	102	12	5	y.w.	4-	4	87	Very nice
10. Zodeka #41	"	32	100	0	0	103	13	5	y.w.	3+	4	84	Very good
11. Trideka Laat	"	32	80	0	20	106	14	4	y.w.	3+	3	74	
12. Witlof	"	32	97	0	3	90	12	5	y.w.	3	4	79	Very nice but low yield

NOTES:

Colour: c.w. = creamy white y.w. = yellow white

5 is most desirable 1 is least desirable

The covered cvs produced longer heads, firmer in the top.

The uncovered developed slower, were shorter, and had a tendency to be loose, although at the end of the growing period, most filled in quite well. They seemed to have less rotten roots, although the high loss on #2,3, and 4 is most likely caused by too high a soil temperature. The "without cover" had a much higher eye appeal, cleaner and fresher look.

Planted: December 11, 1975

Harvested: January 6, 1976

Trial 2.

FORCING WITLOF - 1976

Variety	Source	Cover	Days to Harvest	Mk.b.spears/100 roots planted	Reason non-mkble.			Overall lgth (cms)	Overall wth. (cms)	Color	Tip burn	Fitness	Shape	Uniformity	Score	Remarks	
					% Rot	% Non spears	% Multiple spears										
Selectie R.Z.B.	R.Zw	W	20	70	0	3	27	143	13	5	O.W.	S	4	4+	4+	93	
Extrema	R.Zw	W	20	93	0	0	7	183	15	6	O.W.	S	3	3+	3+	85	
Dubbel-Blank	R.Zw	W	20	89	3	0	8	142	15	4	O.W.	S	3	4	3	83	Some past maturity
Prezo	R.Zw	W	20	94	1	0	5	142	14	6	O.W.	S	4-	4+	4+	94	
Midzo	R.Zw	W	20	92	0	0	8	228	15	7	O.W.	S	2	4	2+	83	
Solex Early	VDB	No	28	52	8	31	9	188	13	6	S.Y.	S	4-	4+	4+	99	A few past maturity
Solex Semi-early	VDB	"	28	48	6	46	0	151	14	5	O.W.	3	3	3+	4-	80	Some past maturity
Solex late	VDB	"	28	58	5	30	7	225	15	6	S.Y.	3-	4-	3+	3	86	
Prodeka #40	Bee	"	28	62	5	33	0	220	15	6	S.Y.	S	4-	4+	4	101	Many past maturity
Zodeka #41	Bee	"	28	61	2	32	5	190	15	5	O.W.	4-	3+	4+	4	96	Some past maturity
Trideka laat	Bee	"	26	37	3	39	21	170	16	5	O.W.	4	3+	4	4	80	Many past maturity
Witlof	VDB	"	26	65	0	35	0	126	14	5	S.Y.	S	4-	3+	4	91	Few past maturity

NOTES:

Again the no cover types had a much higher eye appeal. However, the % of loose or open spears was very high. Many cvs also had seed stocks developing. The score was arrived at by evaluation of quality and 10% of wt/spear.

Color: O.W. = Off White S.Y. = slight yellow  
 Cover: W = With No = No cover  
 Tip burn: S = some

Seeded: June 24th, 1975, 12 cvs of which 5 cvs "with cover" and 7 cvs "without cover" 3 rows per cv. 60 foot rows, 17" apart 6-10 seeds/foot  
 Harvested Oct. 31, 1975 Leaves cut at 1½" above crown of roots and stored in bushels in cold storage - temp 32 - 35 F.  
 Dec. 1, 1975 - roots cleaned up from old rotten leaves, roots left in cold storage.

Trial 1 Forcing Witlof - Dec. 11, 1975 - in Wooden box 8 ft x 2½ ft x 2 ft high divided into 2 sections. 12 cvs - #1-5 with cover and #6-12 without cover. Planted Dec. 11. 55 roots/cv.

With Cover Section: 4" soil with heating cable at 2" level, roots set (roots 8" long including crown)  
 Added 1" cover soil and tried to wash in, - no good, messy. Excess wet soil taken off and tops cleaned off with water under high pressure, then dried with air, and 6" soil added. Total 19" soil - fairly moist.

Without Cover Section: 4" soil with cable as above. Soil good and moist (added water 2 days before setting roots, same as for "with cover"). After setting, roots pressed down firmly. Roots still not in soil, added 1/2" of screened soil, and shaken down; then roots pushed down and very lightly watered. The crown of all roots now 2" above soil, and fairly well surrounded by soil at root base.  
 Temperature set at: Soil 59F (15C) Air 55F (13C) - (for a few days to stimulate the growth of hairroots)  
 On Dec. 15th: brought temps. up to Soil 68F (20C) and Air 61F (16C). Placed temperature recorder in "Without cover" section.

Note: a) Due to the small trial, no different temperatures were used for early or late cvs.  
 b) No water was added to soil c) The relative humidity was close to 100 until on Jan. 2, a small fan was installed to drop the relative humidity.

Jan. 6, 1976 - The "cover" cvs harvested. Some were past maturity such as Prezo and Midzo. In a large section in the center of #2, 3, 4, the roots were rotten. The temperature was too high when checked at that particular section.  
 Jan. 12, 1976 - The "without cover" harvested. It seems that the soil was too dry at harvest time and some method has to be found to supply water to the roots.

Trial 2. Planting Witlof January 14, 1976  
 a) Moved roots into Mechanics room for 3 days to warm roots up.  
 b) Wetted soil as much as possible to promote good root growth. Total about 6" soil under roots.  
 c) Heating cable left in as used in first trial  
 d) After planting one row of roots, packed soil around roots, then planted another row and so on  
 e) Used plastic strips as dividers between cvs  
 f) Again 12 cvs used:

	covered:		Without cover:
#1	34 roots	#6	55 roots
#2	41 "	#7	50 "
#3	40 "	#8	39 "
#4	67 "	#9	39 "
#5	37 "		
		#10	43 roots
		#11	47 "
		#12	54 "

CONTINUED:

Summary of Witlof Variety Trials

- g) Installed Dry and Wet bulb humidity recorder with exhaust to outside of "no cover" section to control humidity. Try to keep relative humidity at 90-95.
- h) Installed Duro recorder to record soil and air temperatures.
  - Red = soil "no cover" to be 68F (20C)
  - Green = air "no cover" to be 61F (16C)
  - Blue = soil "cover" to be 68F (20C)
- i) Added 6" of soil to "cover" section roots after sprinkling some more soil on, and washing this in with some water under high pressure and letting this dry off before adding more (and drier) soil.

Note: The soil temperature in the cover section was continually too high. The heating cable had more effect in this section due to the larger soil coverage. This cable should be removed for Trial 3.

Trial 3.

February 16, 1976

- 1. Heating cable removed from "no cover" section.
- 2. Installed watersoaker hose (garden type) 2" above heating cable level for both sections. Added 3" soil above garden soaker hose.
- 3. Planted roots - again packing soil tightly around roots as done in Trial 2.
- 4. There was no fertilizer application made in any of the trials. Soil pH 6.4
- 5. No results of this trial available at this date.



GREENHOUSE TOMATO TRIAL - FALL 1975

Cultivar	Total yld. mkb. fruit/plant (g)	Yield x-lge. (lbs.) /plant(g)	Yield large /plant(g)	Yield medium /plant(g)	Yield small /plant(g)	Yield # 2's /plant(g)	Mkble. # fruit /plant	Ave. Wt. of mkb. fruit(g)	Yield non-mkb. frt. /plant(g)
#7526	2,722	6	1,098	572	431	620	31	89	65
#7525	2,067	4½	1,066	258	146	531	20	104	47
#7520	1,741	3.9	1,264	192	41	182	14	121	48
Vendor	1,679	3.7	839	116	123	493	15	113	38
#7522	1,513	3.3	443	320	450	300	22	69	12

GENERAL REMARKS: The seed was planted in flats on July 1st. Plants were transplanted to greenhouse on August 13. Soil was not fumigated or pasteurized.

Whiteflies were controlled by spraying regularly with Resmethrin.

Feeding Schedule commenced on Sept. 2 with 20-20-20 at 2 to 4 lbs/1000 sq.ft.

Harvest commenced October 22 and terminated on December 9.

REMARKS ON TOMATO CULTIVARS:

Ont.7526 (H.E.S. Simcoe) - Best yield. Plant habit compact and tall, reaching height of 7 ft. on Oct. 15. Susceptible to Magnesium deficiency. Fruit medium - small size, quite a few oval shaped.

Ont.7525 (H.E.S. Simcoe) - Good yield of medium sized fruit. Plant habit compact and about twice as tall as Vendor, reaching a height of about 8 ft. on Oct. 15. Trusses tend to grow upright. Fruit fairly smooth but becoming more rough at end of the season.

Ont.7520 (H.E.S. Simcoe) - Fair yield of large sized fruit. Highest average weight of fruit in this trial (121 g). Fruit has good eye appeal, smooth, firm, light red to pinkish colour. Very few #2 quality and non-marketable fruit. Plant habit more like Vendor, reaching a height of 5½ ft. on Oct. 15.

Vendor - Fair yield. Fruit medium large, somewhat oval shaped. Second highest average weight per fruit (113 g). Plants reached height of 4½ ft. on Oct. 15 (6 clusters).

Ont.7522 (H.E.S. Simcoe) - Fair yield. Fruit medium small, fairly smooth. Plant habit open, reaching medium height of 6 ft. on Oct. 15.

GENERAL COMMENTS:

The experimental lines developed by Dr. E.A. Kerr are not entirely stabilized for leaf mold or TMV and nematode resistance.

#7520 looks very promising from the standpoint of fruit quality and size. It apparently still segregates for TMV and nematode resistance.

#7525 also produces good sized fruit but trusses have a tendency to grow upright with subsequent bending, when fruit begins to size. It is also susceptible to leaf mold and probably is segregating for nematode resistance. #7526 produces a fair amount of small fruit although the total yield was excellent. It is probably susceptible to nematodes and segregates for TMV resistance. It has a low tolerance to leaf mold. A new more vigorous selection will be tried in the spring of 1976.

#7522 produces too few large fruit. This line will be deleted from the spring trial.

GREENHOUSE TOMATO TRIAL - SPRING 1975

Cultivar	Ave. 1st picking date	Yld. mkb. frt. to May 23 (g)	Tctal yld. mkb. frt. /plant (g)	Yield (lbs)	Yield x-lge. /plant (g)	Yield large /plant (g)	Yield med. /plant (g)	Yield small /plant (g)	Yield # 2's /plant (g)	Mkb. #frt. /plant	Ave. wt. fruit (g)	Yield n-mkb. frt. /plant (g)
Mastapas	Apr. 28	2,286	5,894	13	215	1,020	2,449	2,251	172	85.6	68.9	346
5443/74	May 3	1,746	5,862	12.9	542	3,741	756	228	595	48.1	122.0	216
EE63 AAA	Apr. 26	2,264	5,217	11.5	587	2,594	885	352	800	45.7	114.0	610
EE25 AAB	May 1	1,702	5,208	11.5	1,070	2,806	570	141	612	36.6	142.0	236
EE62 ABA	Apr. 30	2,223	5,162	11.4	650	3,154	587	134	703	38.7	133.3	401
EE62 AAB	May 1	1,924	5,059	11.1	761	3,202	334	85	676	35.1	144.0	339
DD2-11	Apr. 29	1,585	4,859	10.7	75	2,395	1,530	430	429	51.4	94.5	81
73/W68	May 1	1,853	4,844	10.7	0	1,406	2,148	1,070	221	62.7	77.3	113
EE64 BAA	Apr. 27	1,510	4,806	10.6	37	1,661	1,086	1,001	1,011	58.3	82.4	893
Michigan												
Ohio	May 1	1,645	4,412	9.7	522	3,469	861	284	610	49.0	90.0	251
EE68 AAB	Apr. 26	1,897	4,294	9.5	397	2,515	566	192	624	34.7	123.6	482
EE62 AAC	May 1	1,496	4,272	9.4	259	2,403	900	292	417	38.0	112.4	150
EE64 BBB	May 1	1,071	4,178	9.2	168	2,088	719	301	903	37.5	111.5	1,561
5438/74**	May 15	690	4,060	8.9	578	2,371	206	197	708	35.0	115.0	96
EE6 AAB	May 2	1,401	3,904	8.6	112	2,513	617	207	463	33.5	116.6	263
Vendor	Apr. 29	1,194	3,811	8.4	100	1,709	784	272	962	36.5	104.3	380
EE62 AAA	Apr. 29	1,104	3,800	8.4	474	2,186	275	154	711	28.7	133.0	512
5194/74	Apr. 26	1,100	2,210	4.9	0	330	745	1,040	94	38.9	56.9	52

\*\* 4 plants only.

REMARKS ON TOMATO CULTIVAR TRIAL - SPRING 1975

- Mastapas (Van Den Berg) - Best yield, the majority being medium and small fruit. Fruit is very smooth with very good eye-appeal. Highest early yield. Vigorous plant.
- 5443/74 (Bruinsma) - Second highest yield, but fruit about twice the size as cultivar above, the majority (app.65%) being large. A little later than cultivar above. Plant habit like Michigan Ohio. Fruit is perfectly shaped with extremely high eye-appeal.
- EE63 AAA (H.E.S. Simcoe) - Good yield. Approx. 50% large fruit. Relatively large amount of #2 and non marketable fruit due to roughness and some catfacing early in the season. Plant habit open.
- EE25 AAB (H.E.S. Simcoe) - Good yield. High percentage of extra large fruit and over 50% large fruit. Plant habit open and vigorous.
- EE62 ABA (H.E.S. Simcoe) - Good yield. Approx. 60% large sized fruit, some extra large. Fairly early. Some catfacing and rough fruit first half of the season.
- EE62 AAB (H.E.S. Simcoe) - Good yield. Mostly large and extra large fruit. Largest average fruit of all cultivars tested. Plant habit like Vendor. Fairly smooth fruit.
- DD2-11 (H.E.S. Simcoe) - Fair yield, about 80% large and medium sized fruit which is smooth and has good eye-appeal. Plant habit more like Vendor.
- 73/W68 (De Ruyter) - Fair yield. Mostly medium sized fruit which is beautifully smooth throughout the growing season. Plant habit compact.
- EE64 BAA (H.E.S. Simcoe) - Fair yield. High percentage of #2 and unmarketable fruit due to roughness and catfacing. Generally fruit is not attractive; pink color. Very wild plant habit.
- Michigan Ohio-3 (Burghart) - Fair yield. Approx. 80% large sized fruit, some extra large. The average weight of fruit smaller than usual.
- EE68 AAB (H.E.S. Simcoe) - Fair yield. Approx 60% large sized fruit. Susceptible to cracking in high temperature. Some pink coloured fruit. Plant habit open, vigorous.
- EE62 AAC (H.E.S. Simcoe) - Fair yield. Large to medium sized fruit which is quite attractive and relatively smooth. Medium growth habit.
- EE64 BBB (H.E.S. Simcoe) - Fair to poor yield. About 50% large fruit which is unattractive, rough, pink colour, prone to catfacing. Approx 30% non-marketable. Growth wild.
- 5438/74 (Bruinsma) - Due to very poor germination only 4 plants could be saved for this trial. Yield fair to poor. Large to medium sized fruit, somewhat rough.
- EE6 AAB (H.E.S. Simcoe) - Poor yield. Large to medium sized fruit, fairly smooth.
- Vendor (H.E.S. Simcoe) - Poor yield. Large to medium sized fruit. High percentage of rough fruit and catfacing.
- EE62 AAA (H.E.S. Simcoe) - Poor yield. Large to extra large sized fruit. Large percentage of #2 and unmarketable fruit due to catfacing and roughness.
- 5194/74 (Bruinsma) - Poor yield. Very small fruit which is very smooth.

