NUMBER - 26

E. K NIBBE

CABBAGE ADDED

MUCK VEGETABLE VARIETY TRIALS 1976

M. VALK E. KNIBBE
HORTICULTURAL RESEARCH INSTITUTE
OF ONTARIO

MUCK RESEARCH STATION
HOLLAND MARSH
R.R.-1 KETTLEBY
ONTARIO

Ontario
Ministry of Agriculture and Food

MUCK RESEARCH STATION, HOLLAND MARSH, R.R.#1, KETTLEBY, ONTARIO, LOG IJO

VEGETABLE VARIETY TRIAL REPORT 1976

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SEED SOURCES - 1976

We wish to express our sincere thanks to the companies who provided us with seed for trials.

Agw	Agway Inc., Seed Div., Box 1333, Syracuse, New York, 13201
Asg	Asgrow Seed Co., Box 610, Bradford, Ont. LOG ICO
Asm	Asmer House, Ash St., Leicester, England LE5 ODD
Bee	Beemsterboer N.V., P.O. Box 2, Warmenhuizen, The Netherlands
BEJO	Beemsterboer & Jacob Jong Seed Co.Ltd., Box 9, Noordscharwoude,Holland
Bro	Broersen Bros., P.O. 4, Tuitjenhorn, The Netherlands
Bru	Bruinsma b.v., P.O. Box 24, Naaldwijk, Holland
Bur	Roy Burghart, Eureka Greenhouses, Lafayette Rd., Greenville,Mich. 48838
Cla	L. Clause S.A., 91220 Bretigny-sur-Orge, France
Cro	Crookham Co. P.O. Box 520, Caldwell, Idaho, U.S.A. 83605
DZR	DeRuiterzonen b.v., Bleiswijk, Holland
D.P.	DVD Ploeg's Elite Zaden b.v., NL3220, Barendrecht, Holland
Des	Dessert Seed Cp. P.O. Box 181, El Centro, California, U.S.A. 92243
Enza	Enza Zaden, P.O. 7, Enkhuizen, Holland
F.M.	Ferry Morse Seed Co., Box 100, Mt.View, California, 94042
FMC	FMC, Agricultural Chemical Div., Box 3091, Modesto, Cal. 95353
Har	Harris Co. Inc., Moreton Farms, Rochester, N.Y., 14624
Her	Herbst Bros., 1000 N.Main St., Brewster, N.Y, 10509
Jong	Jacob Jong Seed Co. Box 9, Noordscharwoude, Holland
Key	Keystone Seed Co., Box 942, Hollister, California, 95023
Kerr	Dr.E.Kerr, Horticultural Experiment Station, Box 587, Simcoe,Ont. N3Y 4N5
MSU	Michigan State Univ. East Lansing, Michigan, U.S.A 48823
Nia	FMC Agric. Chemical Div., Box 3091, Modesto, California 95353
N.K.	Northrup, King & Co., 1500 Jackson St. N.E., Minneapolis, Minn. 55413
N.Z.	Nunhem's Zaden b.v., Haelen, Holland
Oh.E	J.E. Ohlsens Enke, NY Munkegaard, DK-2630 Taastrup, Denmark
Pan	C.W.Pannevis, Zaadteelt en Zaadhandel B.V., Westeinde 62, P.O. 2, Enkhuizen, Holland

PGR	Plant Gene Resources of Canada, Agriculture Canada Research Branch, Ottawa Research Station, Ottawa, Ontario KIA OC6
P.W.	Pieters-Wheeler, P.O. Box 217, Gilroy, California, 95020
Reed	Reeds Seeds, Corland, New York, U.S.A.
R.Zw	Rijk Zwaan,Burgemeester, Crezeelaan 40, P.O. 40, De Lier, Holland
Ro.B.	Rogers Bros Co., Box 2188, Idaho Falls, Idaho, 83401
R.Sl.	Royal Sluis, P.O. Box 22, Enkhuizen, The Netherlands
Sak	Sakata & Company, 2 Kiribatake, Kanagawa-KU, Yokohama, Japan
S.G.	Sluis en Groot, Enkhuizen, Box 13, The Netherlands
Sto	Stokes Seeds Ltd., 39 James St.,St. Catharines, Ontario
Tak	Takii, P.O. Box 7, Kyoto Central, Japan
Trp	Trapp & Sons, Beulah, Michigan, U.S.A.
Twi	Otis S. Twilley, Salisbury, Maryland, U.S.A. 21801
VDB	VandenBerg N.V., P.O. Box 25, Naaldwijk, The Netherlands
Ves	Vesey's Seeds Ltd., York, Prince Edward Island.Canada
WSU	Wisconsin State University, Dept.of Hort., 1575 Linden Dr.Madison, Wisconsin, 53706

MUCK RESEARCH STATION

Weather Data

	Temperature Mean Maximum °C			Temperature Mean Minimum °C			Rainfall (mm)		
	75	76	LTA	75	76	LTA	75	76	LTA
May	22	16 61	18 64	9	6 43	5 41	79	86 3.4	80
June	24	26 79	24 75	12	12 54	11 52	56	66 2.6	73
July	28	24 75	27 81	13	13 56	13 56	66	185 7.4	75 3.0
August	26	24 75	26 79	12	12 54	12 54	74	51 2.0	75 3.0
Sept.	18	19 66	21 69	7	8 46	9 48	69	102 4.1	66
Oct.	15	10 50	15 59	4	2 36	4 39	38	79 3.1	59

LTA = Long Term Average

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HOURS OF SUNSHINE

Total Hours of Bright Sun per Month

	1975 M.R.S.	1976 M.R.S.	1977	LTA Guelph (~~41-70~~ 1941-70)	LTA Harrow-Leamington
Jan.		75	85.	80	80
Feb.		88	105.	99	96
March		114	177.	131	124
April	185	221 H	206.	168	163
May	256	197 Low	341.	227	228
June	272	261	282.	251	243
July	292	250	309.	286	286
August	227	268	255	251	251
Sept.	160	192	104.	171	181
Oct.	127	114	162.	143	160
Nov.	73	88	47.	74	87
Dec.	58	83		69	65.6

NOT PUBISHED

CLUBROOT

CABBAGE ADAPTATION TRIAL - 1976

Variety	Source	Harvest Date	Yield at 100% stand Tons/Acre	Ave.Weight /head (pounds)	% Mkble Harvest II	Uniformity	Height off Grround	Shape of Head	Habit	Ext.Color	Head Protection	Int.Color	Core Size	% Plants lost by Club Root
Exp.Hyb.6040	Key	1/9	42	3.9	0	4.3	3.0	3.0	2.0	2.0	4.0	4.0	3.7	60
Exp.Hyb. 6038	Key	1/9	36	3.3	0	4.0	2.0	3.0	2.0	4.0	3.0	4.3	4.3	20
Exp.Hyb. 1694	Key	27/9	59	5.5	85	4.0	3.0	5.0	3.0	4.0	2.0	4.0	4.3	40
Exp.Hyb. 1695	Key	27/8	21	2.0	80	3.0	3.0	2.0	2.0	3.0	4.0	4.0	3.0	70
Exp.Hyb. 1696	Key	1/9	50	4.6	90	3.0	2.0	2.0	2.0	1.0	3.0	4.0	4.0	50
Exp.Hyb. 1559	Key	16/9	33	3.1	64	3.3	2.0	3.0	3.0	2.0	3.7	4.3	4.7	5
Exp.Hyb. 1558	Key	8/9	37	3.4	0	3.3	3.0	2.0	3.0	3.0	4.0	4.3	4.0	20
Exp.Hyb. 1557	Key	10/9	30	2.8	0	4.0	2.0	2.3	2.0	4.0	3.3	4.0	2.7	none
Earlimart	Key	10/9	44	4.1	0	4.3	1.0	5.0	3.0	3.0	2.3	4.0	3.7	30
Earlibird	Key	10/9	44	4.1	0	4.3	1.0	2.3	3.0	3.0	3.7	3.3	2.0	15
Earlitimes	Key	10/9	40	3.7	0	2.3	2.0	2.3	2.0	4.0	3.3	4.0	3.0	10
Green Delight	Key	8/9	29	2.7	0	3.0	2.0	3.0	2.0	5.0	4.0	4.0	3.7	40
Golden Acre K Strain	Key	8/9	36	3.3	0	3.7	2.0	2.7	2.0	5.0	3.0	4.0	2.0	10
Exp.Hyb. 1561	Key	8/9	37	3.4	0	3.3	3.0	2.7	3.0	3.0	3.7	3.7	2.7	15
Exp.Hyb. 7907	Key	3/9	30	2.8	0	4.0	3.0	3.0	2.0	3.0	3.0	4.0	2.0	20
Venus	Des	10/9	48	4.4	0	3.0	2.0	3.0	2.0	3.0	2.0	4.0	4.3	35
Mercury	Des	17/9	42	3.9	10	4.0	2.0	2.0	3.0		3.0	3.7	3.7	15
Vela F 1	Rog	25/8	28	2.6	0	4.0	2.0	3.0	2.0	4.0	2.0	4.0	3.0	40
Ursa F 1	Rog	27/9	76	7.0	50	3.0	4.0	2.0	4.0	3.0	3.0	4.0	3.7	35
Express	Asg	10/9	50	4.6	0	3.7	3.0	3.7	3.0	3.0	2.0	4.0	2.0	10
Enterprise	Asg	10/9	32	2.9	0	3.7	3.0	3.0	3.0	3.0	3.7	4.0	3.3	20
Head Start	Asg	3/9	37	3.4	0	3.7	3.0	3.0	3.0	3.0	2.0	3.0	3.3	10
Minicole	Bee	14/9	30	2.8	100	4.0	3.0	2.7	2.0	3.0	3.3	3.7	4.7	10
Vela F 1	R.Sl	25/8	30	2.8	0	4.3	2.0	3.0	3.0	3.0	2.0	3.0	4.0	15
Libra	R.Sl	25/8	20	1.9	0	4.3	2.0	3.0	3.0	3.0	2.0	3.0	4.0	5
Celsa F 1	Bee	22/10	54	4.9	frozen	4.3	4.0	3.0	3.0	3.0	3.3	2.0	2.7	15
Eastern Ballhead	Agw	12/10	34	3.1	frozen	3.7	3.0	3.7	3.0	2.0	3.0	4.0	1.7	30

CABBAGE ADAPTATION TRIAL Continued.

NOT PUBLISHED

Variety	Source	Harvest Date	Yield at 100% stand Tons/Acre	Ave. Weight /head (pounds)	% Mkble Harvest II	Uniformity	Height off Ground	Shape of Head	Habit	Ext. Color	Head Protection	Int. Color	Core Size	% Plants lost by Club Root
Winter White R III	S.& G	12/10	31	2.9	frozen	3.3	4.0	3.0	3.0	3.0	2.7	4.0	4.0	15
Earliana (R)	S.& G	25/8	23	2.1	0	4.0	3.0	3.0	2.0	5.0	2.0	4.0	3.0	5
Winter White (R)	S.& G	12/10	41	3.8	frozen	4.0	4.0	3.0	3.0	3.0	3.0	4.0	4.3	15
Synar Green F 1 Hyb.	S.& G.	8/9	34	3.2	0	4.3	3.0	2.7	2.0	4.0	3.7	4.0	4.3	20
1240 BRR	Har	8/10	31	2.9	frozen	4.0	4.0	5.0	2.0	3.0	3.0	4.0	3.0	20
510-15 1241BRR	Har	10/9	37	3.4	0	4.0	3.0	3.3	3.0	3.0	2.0	4.0	3.0	none
510-18 1245BRR	Har	10/9	39	3.6	60	4.0	3.0	3.0	3.0	3.0	2.3	4.0	4.0	20
Market Topper	Har	10/9	39	3.6	53	4.0	3.0	3.0	3.0	3.0	3.3	4.0	2.3	15
Hyb.15	Har	14/9	40	3.8	0	4.0	2.0	3.0	3.0	3.0	3.3	4.0	4.0	none
Market Victor	Har	3/9	44	4.1	0	4.0	2.0	3.0	3.0	3.0	3.0	4.0	3.0	15

Notes: Cabbage direct seeded June 15, non-replicated. Plot seriously affected by clubroot.

Key:
- Uniformity 5 = very uniform 1 = very poor
- Height off ground 5 = high 1 = low
- Shape of Head 5 = flat 3 = globe 1 = pointed
- Habit 5 = sprawling 3 = medium 1 = compact
- External Color 5 = dark 1 = pale
- Head protection 5 = very good 1 = very poor
- Internal color 5 = white 1 = dark
- Core size 5 = small 1 = large

Harvest II is 4 weeks after the initial harvest date.

SPRING TOMATO TRIAL - 1976

Cultivar	Source	Yield mkb. frt. to June 28 gm	Yield mkb. frt. to June 28 lbs	Total Yield mkb. frt. /plant gm	Total Yield mkb. frt. /plant lbs	Yld. x-lge /plant (gm)	Yld. lge /plant (gm)	Yld. med. /plant (gm)	Yld. sml. /plant (gm)	Yld. 2's (gm)	Mkb.# frt/plant	Av.Wt.Frt (gm)	Yld. non-mkb frt /plant (gm)	Shape of fruit	Uniformity of Color
#5443/74	Bru	2968	6.53	4613	10.16	880	2021	44	34	1634	27	171	1141	3.7	4.0
#5027/74	Bru	3356	7.39	5115	11.26	946	2122	37	27	1982	26	195	448	3.7	4.2
Ont. Hyb 763	Kerr	4534	10.00	5912	13.02	1412	2852	64	31	1553	33	179	167	3.9	2.5
Ont. Hyb. 764	Kerr	3272	7.16	4458	9.82	293	2185	402	98	1455	34	131	215	3.5	3.3
Vendor	Kerr	2446	5.38	3392	7.47	198	993	166	114	1921	26	131	395	3.4	3.4
Eureka #300 F.Hyb.	Bur	3376	7.43	4913	10.82	94	2572	490	136	1619	39	125	286	3.9	4.2
7520	Kerr	2657	5.85	3705	8.16	20	1403	233	59	1990	29	127	101	3.4	3.3
7525	Kerr	3660	8.06	4744	10.44	401	1839	165	159	2180	34	140	485	3.3	4.0
7526	Kerr	3478	7.69	4963	10.93	29	1550	510	259	2615	45	111	260	3.6	4.1
7526A	Kerr	3544	7.80	5272	11.61	0	1907	486	320	2559	47	112	241	3.7	4.2
B75 311	DRZ	3270	7.20	4729	10.41	0	2013	1919	481	316	52	90	63	4.8	4.7
Michigan Ohio	Janse	4228	9.31	6325	13.93	459	3377	366	99	2033	47	136	178	3.6	4.0
B75 313	DRZ	3260	7.17	4571	10.06	18	1018	2034	1105	396	58	78	25	4.5	4.6
Hyb.32081 TmCF	Pan	3663	8.06	4717	10.39	21	1599	1915	916	265	60	78	5	4.5	4.3
Hyb.42136 TmF	Pan	3714	8.17	4948	10.89	63	2221	1563	820	281	59	84	20	4.3	4.0
520	Enza	4708	10.36	6873	15.13	43	2778	2436	862	754	76	90	203	4.3	3.9
9959	Enza	3782	8.33	5227	11.51	42	2671	844	284	1386	52	101	50	3.8	3.1
Viresta	Enza	3208	6.66	4411	9.71	0	1927	989	292	1203	45	99	285	4.2	4.2

Shape of fruit and colour:
5 = most desirable
1 = least desirable

In order of Yield T/acre

Best score Prem Crop Southern Comet Green Hornet

BROCCOLI MAIN VARIETY TRIAL - 1976

Variety	Source	Days to Harvest	% Mkb	% Plants non-mkb.	% Plants lost	Wt/Head (grams)	Yield T/A	Bead size	Ext. color	Uniform	Shape-Head	Breakdown	Open florets	Yellow eyes	Bracted	Loose	Hollow stem	Height of Head set	Length of branches	% of Mkble once-over harvest
Premium Crop	Tak	73	100	0	0	236	9.2	4.3	4.1	4.1	4.3	5.0	4.9	5.0	4.9	5.0	4.5	deep	short	45
* Green Comet	Tak	74	95	0	5	241	8.9	3.9	3.9	3.7	4.1	5.0	4.8	5.0	4.9	5.0	4.3	"	"	34
* Southern Comet	Tak	74	90	3	7	251	8.8	4.3	4.0	3.8	4.0	4.8	5.0	4.9	4.8	4.5	3.8	"	"	39
→ Crusader out	N.K.	78	87	4	9	248	8.4	3.6	3.9	3.9	3.9	4.8	5.0	2.6	5.0	4.6	3.6	"	"	44
* Bravo	Sto	71	91	8	1	232	8.3	3.6	4.0	3.9	3.8	4.5	4.7	3.7	5.0	4.3	3.0	med.	med.	51
Gem	Asg	72	84	16	0	253	8.2	3.7	3.9	3.7	3.3	4.5	4.9	4.4	2.7	4.2	2.8	med. deep	short	45
* Green Hornet in	Sto	73	80	3	17	243	7.6	4.4	4.0	3.9	3.9	4.9	4.8	4.8	4.9	4.4	3.8	deep	short & med.	53
Cape Queen	Tak	73	77	6	17	235	7.1	3.8	3.9	3.7	3.3	5.0	4.9	4.5	4.5	3.8	---	deep	short & med.	57
Hybrid A	Har	72	85	15	0	210	7.0	3.4	3.9	3.8	3.7	4.1	3.9	3.8	4.7	3.5	2.4	high	med-long	50
Hybrid E	Har	75	87	4	9	179	6.1	3.1	3.5	3.8	3.7	4.9	4.7	3.1	4.5	4.8	4.0	med-high	short	26

* in 1977 "363"

Notes: 5 = most desirable 1 = least desirable

Height of head set: high set heads are easier to harvest.

Long branched terminals lend themselves better for fresh market packaging.

Direct seeded: June 15 in rows 23" apart. After thinning to 6" in the row, the stand was reduced due to wirestem and clubrcot, - see % plants lost 4 reps.

% of Mkble once-over harvest is the highest % harvested in one day.

BROCCOLI ADAPTATION TRIAL - 1976

Variety	Source	Days to Harvest	% Mkble	% Plants non-mkble	% Plants lost	Wt/Head (grams)	Yield T/A	Bead size	Ext. color	Uniform	Shape-head	Breakdown	Open florets	Yellow eyes	Bracted	Loose	Hollow stem	Height of Head set	Length of branches	% of Mkble once-over harvest
Futura	Asg	73	95	5	0	282	10.4	4.2	3.5	3.9	3.6	5.0	5.0	4.3	3.5	4.0	4.7	m.h	m.	40
Exp.Hyb.1453	Key	78	100	0	0	220	8.6	3.4	4.0	3.8	3.8	5.0	5.0	2.6	4.7	4.8	3.8		m.s.	30
Dandy Early #32	Sak	73	80	20	0	266	8.3	4.0	3.9	3.8	3.6	4.5	5.0	4.9	5.0	3.7		m.h.	l.	45
Topper 430	Asg	80	70	5	15	304	8.3	3.5	3.9	3.4	3.4	4.8	5.0	4.5	3.6	3.6			s.	30
Late Corona	Tak	92	75	0	25	282	8.2	2.9	3.5	3.6	3.3	5.0	5.0	4.8	4.8	5.0	3.5			62
Corvet	Ro.B.	84	80	10	10	256	8.0	4.3	3.4	4.1	4.3	5.0	5.0	5.0	5.0	4.0	5.0	d.	s.	31
Barca	Ro.B.	80	100	0	0	205	8.0	4.1	3.4	4.0	3.9	5.0	5.0	5.0	5.0	5.0	5.0	d.	s.	30
Duchess	F.M.	73	90	0	10	214	7.5	3.8	4.0	3.8	4.0	5.0	5.0	5.0	5.0	4.3	3.3	d.	m.s.	33
234 Waltham	Har	90	90	5	5	214	7.5	3.8	4.0	3.7	3.8	5.0	4.8	4.5	4.6	4.0			l.	32
1467A	Key	78	95	0	5	203	7.5	3.9	4.0	3.9	3.8	5.0	5.0	5.0	5.0	3.8		h.	s.	32
SC 1	S.Gr	78	80	0	20	234	7.3	4.1	4.0	3.9	4.2	5.0	5.0	5.0	5.0	5.0		d.	s.	44
XP 366	Agw	78	95	0	5	197	7.3	4.2	3.9	3.6	3.4	5.0	5.0	5.0	4.9	3.5			m.	47
1466A	Key	80	95	0	5	197	7.3	3.9	4.0	3.8	3.9	5.0	5.0	5.0	4.2	5.0			s.	26
1466B	Key	80	70	0	30	257	7.0	4.1	4.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0		d.	s.	36
Spartan Early-K	Key	73	85	15	0	188	6.2	3.2	3.5	3.7	3.3	4.6	4.2	2.6	3.9	4.0	4.7		l.	70
Waltham 29	Key	84	75	0	25	213	6.2	3.7	3.9	3.6	3.6	4.8	4.9	4.7	4.4	4.0			l.	19
1464	Key	84	70	0	30	218	6.0	3.8	3.8	3.7	4.1	5.0	5.0	4.7	3.3	5.0				29
Express Corona	Tak	71	45	25	30	328	5.8	3.2	3.9	3.5	2.5	4.7	4.8	4.6	4.8	3.9	4.7	h.	l.	57
Dandy #5	Sak	73	65	0	35	219	5.6	3.7	4.0	4.1	3.9	5.0	5.0	4.8	5.0	5.0	2.8	d.	s.	54
1235 Hyb.E	Har	76	75	15	10	185	5.4	3.3	4.0	4.0	3.7	5.0	4.0	4.0	4.4	4.4			m.	38
Emerald Corona	Tak	90	45	0	55	291	5.1	3.5	3.7	4.0	4.0	5.0	5.0	4.5	5.0	5.0	4.8			33
2327	Key	78	75	25	0	157	4.6	3.4	3.9	3.7	3.8	4.4	3.5	3.0	4.7	3.0	4.4		l.	30
Blue Ocean	Key	76	50	0	50	230	4.5	3.3	3.7	3.6	3.8	5.0	5.0	3.0	5.0	5.0	4.1	d.	s.	40
Medium Late 145	Key	No yield on November 2nd.																		

Notes: Height of Head set: H = high, M = medium D = deep
Length of branches: l = long m = medium s = short

CABBAGE MAIN VARIETY TRIALS - 1976

Notes:
The main trials consist of 10 cultivars each replicated 4 times. Direct seeded on June 15, plants were thinned to 12" in the row, while the rows were 23" apart. At maturity, one-half of each plot was harvested and judged. The other half was judged 4 weeks later at Harvest II. However, due to the early freeze-up many cultivars froze before this date was reached. No yield in Marketable tons/acre is given as the plant stand was reduced due to clubroot.

Judging marks: 5 = most desirable
1 = least desirable, with these clarifications:

Shape of Head:	5 = flat	Plant Habit:	5 = sprawling, 4 = spreading, 3 = medium, 2 = upright, 1 = compact
	3 = globe		
	1 = pointed		
Color external:	5 = very dark	1 = very pale	
Color internal:	5 = white	1 = dark	
Core size:	5 = small	1 = large	
Savoying of leaf:	5 = very crinkled	1 = smooth	

RED CABBAGE MAIN VARIETY TRIAL - 1976

	Variety	Source	Days to Harvest	Av.wt. 1 head (lbs)	% mkb.at Harvest II	Uniformity	Height off Ground	Shape of Head	Plant Habit	Head Protection	Core Size
	Red Head	Sto.	115	3.9	90	3.8	2.3	3.5	3.0	3.6	2.9
*	Red Winter	Har.	129	3.0	frozen	3.7	4.5	2.9	3.5	3.5	3.5
	Red Danish	Sto.	127	2.9	frozen	3.4	2.8	2.6	3.4	3.0	1.9
*	Mammoth Red Rock	Sto.	129	3.8	frozen	3.6	2.8	3.0	3.2	3.6	3.1
	Red Danish	Har.	104	2.8	91	4.2	2.8	2.2	2.3	3.7	2.7
	Kissendrup	Oh.E.	119	2.6	frozen	3.4	3.5	3.0	2.5	3.7	3.4
	Meteor	Sto.	89	2.5	95	3.8	2.8	2.7	2.0	3.8	3.7
*	Red Acre	Sto.	117	2.3	93	3.7	2.3	2.5	2.8	3.3	2.8
	Roka 178	Oh.E.	129	2.3	frozen	3.3	4.8	2.4	3.3	3.4	2.4
	Storage Red	Sto.	140	1.9	frozen	3.7	4.3	2.3	4.0	4.3	3.7

RED CABBAGE ADAPTATION TRIAL - 1976

Variety	Source	Days to Harvest	Av. Weight /head (lbs)	% Mkble at Harvest II	Uniformity	Height off Ground	Shape of Head	Plant Habit	Head Protection	Core Size
Red Head Hyb.	Key	119	3.6	frozen	3.7	3.0	4.3	3.0	3.8	2.7
Red Danish YR	Reed	119	3.6	"	3.0	3.0	4.0	3.0	2.7	2.3
Ex.Hyb. 7234	Key	104	3.6	86	4.0	3.0	2.0	2.0	4.0	2.0
Langedijker Med Late	VdB	129	3.4	frozen	3.0	3.0	2.3	2.0	3.0	3.7
Kissendrup	OhE	119	2.9	"	3.7	2.0	3.0	2.0	4.0	3.3
Baby (R) Early	S.G.	104	2.9	90	4.0	3.0	2.0	2.0	3.0	3.3
Volga	Bee	129	2.9	frozen	3.3	3.0	3.0	3.0	3.0	3.3
Red Acre	Sto	87	2.8	100	4.3	3.0	3.0	2.0	3.0	4.3
Fruka	Bee	91	2.8	0	3.3	3.0	2.3	2.0	3.3	3.0
Amager D159	Oh.E	129	2.6	frozen	3.7	3.0	2.3	3.0	3.0	3.0
Baby(R)Red Late	S.G.	119	2.4	"	4.0	4.0	3.0	3.0	2.7	4.0
Norma	Bee	93	2.4	92	4.0	3.0	1.0	2.0	3.0	4.0
Langedijker EARLY AUTUM	R.S.	73	2.4	80	3.0	2.0	2.0	2.0	3.0	2.3
Ruby Ball	Her.	87	2.3	93	4.0	2.0	3.0	3.0	3.3	4.0
Kwanta	Bee	140	1.6	frozen	3.0	4.0	3.0	3.0	3.3	4.0
Extasa	Bee	140	1.4	"	3.7	4.0	2.3	3.0	4.0	3.3

Note: % Marketable at Harvest II: All cultivars not judged for Harvest II before November 2nd froze at that date.

too many not ready in time for harvest II

should be 98 instead of 129

in 363

SAVOY CABBAGE MAIN VARIETY TRIAL - 1976

	Variety	Source	Days to Harvest	Ave. Wt. /head (lbs)	% mkb. at Harvest II	Height off ground	Shape of Head	Plant Habit	Ext. Color	Savoying of Leaf	Head Protection	Core Size	
*	Savoy King	Sak	128	4.8	61	3.0	4.8	3.5	3.0	2.0	3.1	3.2	
*	Savoy King	Sto	91	4.0	74	2.5	4.8	4.0	2.0	2.0	3.0	3.5	
	Savoy Ace	Sto	93	3.4	45	2.5	2.6	3.0	3.0	3.5	3.2	3.4	
*	Chieftain Savoy	Sto	119	3.4	16	3.0	3.0	3.0	3.0	3.0	2.0	1.5	*
	Herba	Bee	116	2.5	unknown	3.8	3.6	2.8	5.0	3.5	3.5	2.8	
	Gelba	Bee	122	2.4	"	4.8	2.4	2.0	1.0	2.3	3.5	2.8	
	Groenland Hammer	Bro	127	2.4	"	2.8	3.0	3.0	5.0	3.8	3.8	3.7	
	Wirosa	Bee	116	2.1	"	2.5	3.0	3.5	5.0	3.3	3.8	2.9	
	Langedijker Med.Late	VdB	109	1.8	82	2.5	5.0	3.0	3.0	3.3	3.8	2.9	**
	Langedijker Bewaar	Jong	115	1.5	71	3.0	2.0	2.3	1.0	2.0	2.8	3.1	***

from close judging

Notes:
* Seeders, loose, only 30% marketable at Harvest I

** Small, underdeveloped plants

*** Small, underdeveloped plants

For explanation of marks, see Red Cabbage Main Variety Trial

Best
Savoy King - early
Savoy Ace - early
Chieftan - medium
Perfection Drumhead - medium

SAVOY CABBAGE ADAPTATION TRIAL - 1976

Variety	Source	Days to Harvest	Av.Weight /head (lbs)	% Mkble at Harvest II	Uniformity	Height off Ground	Shape of Head	Plant Habit	Head Protection	Core Size
Perfection Drumhead	Asg	115	3.6	frozen	4.0	2.0	4.0	3.0	3.0	2.0
Havrosa F.1	BEJO	115	3.4	"	3.0	3.0	2.0	2.0	3.0	2.0
Langedijker, Orig.Late Extra	VdB	115	3.1	"	4.0	4.0	2.7	4.0	2.0	4.0
Stam 64	Bee	87	3.1	90	3.7	2.0	2.7	3.0	3.7	4.0
Celsa	Bee	140	2.9	frozen	3.7	4.0	3.0	3.0	3.3	3.0
Hamasa	Bee	115	2.8	"	4.3	3.0	2.0	3.0	3.3	3.0
Geelgroene Herfst 63	Bee	104	2.6	84	3.0	3.0	1.0	2.0	3.0	4.0
Langedijker Late Winter	R.S.	115	2.4	frozen	4.0	4.0	2.7	3.0	2.3	4.3
Novusa F.1	BEJO	113	2.3	80	4.0	2.0	4.0	3.0	2.0	3.7
Hegro	R.S.	104	2.1	60	4.3	1.0	4.0	1.0	4.0	2.0
Yslanda	Bee	129	2.1	frozen	2.0	2.0	3.0	2.0	4.0	3.7
Ice Queen	S.G.	104	2.1	76	4.0	3.0	1.0	3.0	4.0	3.3
Winter King	R.S.	129	2.1	frozen	3.3	3.0	3.0	4.0	3.3	2.7
U-Neek	Agw	78	2.0	0	4.0	3.0	1.0	1.0	4.0	3.0
Ostara (R)	S.G.	140	1.9	frozen	3.0	3.0	4.0	3.0	3.7	4.0
Hiversa F.1	BEJO	115	1.7	frozen	3.0	4.0	3.0	5.0	3.7	4.0
Lagro	R.S.	115	1.4	frozen	4.3	3.0	2.0	3.0	3.3	3.0
Algra	Bee	71	1.0	"	2.0	4.0	2.0	1.0	4.0	2.0

early no keeper

grown on muck soil section of farm - short carrots. 1 3/4 - 3/4 law. min 3 1/2 (actually 4-5)

CARROT MAIN VARIETY TRIAL - 1976 - PACKAGING TYPES

THINNED 18/ft max
Mostly the longer types are shortened this year

Variety	Source	Mkble B/A	% Mkble	Type of Culls	Stand/foot	Type	Tips	Roots: Ave. length (inches)	Roots: Ave. width (inches)	Uniformity: Shape	Uniformity: Size	Resist. to Greening: Shoulder	Resist. to Greening: Core	Smoothness	Color: Interior	Color: Exterior	Core Size	Overall Rate
Grenadier	Har	1287	86	FS	9	ID	P	8.0	1.3	3.7	4.1	4.0	4.0	3.8	3.6	3.9	4.1	3.87
(5931x1302)5986	MSU	1373	84	FS	12	DI	P	7.9	1.3	4.1	4.0	3.9	3.9	3.9	3.9	3.9	4.1	3.94
Gold Pak 28	Sto	1093	89	F	13	GP	P	7.7	1.3	3.7	3.8	3.8	3.9	3.8	3.5	3.6	4.0	3.77
Spartan Delite	Key	1321	84	FS	13	ID	P	7.6	1.3	3.9	4.0	4.0	3.7	4.0	3.4	4.1	4.1	3.90
Long Imp. 58	Asg	1050	87	F	13	I	P	7.6	1.3	3.9	3.5	3.9	3.8	3.7	3.1	3.9	4.0	3.73
Spartan Delux	MSU	1491	87	F	17	DI	P	7.4	1.2	3.8	3.6	3.8	3.9	3.4	3.9	4.0	4.2	3.81
Trophy	Har	1473	90	F	15	DI	P	7.4	1.3	3.8	3.8	3.8	3.8	3.5	3.5	3.9	4.1	3.76
Spartan Fancy	Key	1463	88		13	DI	P	7.4	1.2	3.8	3.9	3.9	3.6	3.9	3.5	4.2	4.2	3.87
Spartan Sweet	Cro	1344	87	CFS	13	DI	P	7.3	1.4	3.8	3.8	3.8	3.8	3.6	3.6	3.8	4.0	3.77
Sp.Sweet A	Key	1515	90	F	16	DI	P	7.0	1.4	3.9	3.8	4.0	3.9	3.7	3.5	4.0	4.1	3.86
Hipak Elite	Har	1420	90	F	13	DN	B	7.0	1.4	3.8	4.0	3.4	3.4	3.8	3.2	3.9	4.0	3.69
Dominator	Key	1297	85	FC	14	DI	P	7.0	1.3	3.6	3.8	3.8	3.8	3.6	3.3	3.9	4.1	3.75
Hipak	Har	1192	88	FS	12	DN	B	7.0	1.4	3.7	3.9	3.3	3.5	3.7	3.2	3.9	4.0	3.66
(5986x1383)1302	MSU	1506	86	FC	14	DI	P	6.9	1.4	3.8	3.7	3.7	3.9	3.3	3.7	3.9	4.2	3.78
Klondike Nantes	Sto	1401	83	FS	15	ND	B	6.9	1.3	3.9	3.9	3.6	3.7	3.8	3.3	3.8	4.0	3.74
Spartan North	Cro	1235	81	CFS	16	DI	P	6.6	1.3	3.4	3.2	3.9	3.9	3.3	3.6	3.8	4.0	3.62
Pioneer	Har	1411	87	SF	12	N	B	6.6	1.4	3.8	3.7	3.2	3.1	3.8	3.0	3.8	4.1	3.57
Spartan Premium	Key	1724	88	FS	17	DN	B	6.5	1.4	3.8	3.6	3.4	3.5	3.5	3.2	3.8	4.0	3.63
Spartan Winner	Key	1544	87	SF	14	DN	B	6.5	1.4	3.6	3.7	3.6	3.6	3.6	3.3	3.9	4.1	3.64
Spartan Classic	Key	1620	90	S	14	DN	B	6.0	1.5	3.7	3.7	3.4	3.7	3.8	3.4	3.9	4.0	3.70

Handwritten beside the table: "good" (Grenadier, Smoothness); "normally better" (above Trophy, Color); "to be killed" (beside Spartan North and Pioneer).

Notes: Twenty varieties seeded May 18 with a 2" split shoe in plots of 3 rows, 12"feet long, 17 inches between rows, replicated 4 times, thinned to maximum 18 plants/foot.
Type of Culls: F = forks, C = crooked S = split
Tips: P = Pointed B = Blunt
Type: I = Imperator N = Nantes D = Danvers GP = Gold Pak C = Chantenay
Score: 1 = least desirable 5 = excellent

CARROT MAIN VARIETY TRIAL - 1976 - PACKAGING TYPES CONTINUED:

Notes:

1st Harvest Date: Sept. 2. 1976

Highest early marketable yield:

1.Spartan Premium	1226 bu/acre	4.Pioneer	1054 bu/acre
2.Klondike Nantes	1150 bu/acre	5.Hipak	1026 bu/acre
3.Spartan Delite	1093 bu/acre		

2nd Harvest Date: Oct. 13, 1976

Highest ave. marketable yield:(all four replications)

1.Spartan Premium	1724 bu/acre	6.5" long x 1.4 " diam.	
2.Spartan Classic	1620 bu/acre	6.0" x 1.5 "	
3.Spartan Winner	1544 bu/acre	6.5" x 1.4 "	
4.Spartan Sweet A	1515 bu/acre	7.0" x 1.4 "	
5.(5986x1383)1302	1506 bu/acre	6.9" x 1.4 "	also good last year

Best length and width:

1.Grenadier	8.0" x 1.3"	1287 bu/acre
2.(5931x1302)5986	7.9" x 1.3"	1373 bu/acre - top last year
3.Gold Pak 28	7.7" x 1.3"	1093 bu/acre
4.Spartan Delite	7.6" x 1.3"	1321 bu/acre
5.Long Imp. 58	7.6" x 1.3"	1050 bu/acre

Highest Score:

(5931 x 1302)5986	Score: 3.94	Yield: 1373	Length 7.9 x 1.3	also 1975
Spartan Delite	3.90	1321	7.6 x 1.3	
Grenadier	3.87	1287	8.0 x 1.3	
Spartan Fancy	3.87	1463	7.4 x 1.2	
Spartan Sweet A	3.86	1515	7.0 x 1.4	

Lowest % Culls:

1.Hipak Elite	10%
2.Trophy	10%
3.Spartan Sw.A	10%
4.Gold Pak 28	11%

Combining appearance, length, score and yield, Grenadier, Spartan Delite, Spartan Fancy, Trophy, Hipak Elite, Spartan Sweet A and Gold Pak 28 did extremely well.

The unnamed MSU (5931 x 1302)5986 produced also an excellent quality carrot. high cull rate.

THINNED to 9/ft

1750/acre

CARROT MAIN VARIETY TRIAL 1976 - PROCESSING TYPES

Best yields

	Variety	Source	Yield T/A	% Mkb.	Culls S	Culls F	Culls U	Stand/ft.	Type	Tips	Roots Length"	Roots Width"	Uniform	Smoothness	Crown	Core Size	Color Int.	Color Ext.	Resist. to Green. Shoulder	Resist. to Green. Core	Score	
	Royal Danvers	Agw.	43.8	92	*			6.4	D	B	8	2.0	4.0	3.2	3.8	3.7	3.7	3.8	3.6	4.1	3.73	
	Spartan Bonus	Des.	43.8	92	*	*		7.5	D	B	7	2.0	3.8	3.6	3.8	3.8	3.8	3.8	3.7	3.9	3.77	
	(6000x9541)5988	MSU	42.3	89	*	*		8.9	DN	B	7	1.8	3.9	3.3	3.6	4.0	3.3	3.8	3.6	3.6	3.60	
	(5931x9541)5988	MSU	42.2	86	*			7.1	DN	B	7	1.9	3.9	3.8	3.6	4.1	3.6	3.9	3.6	3.8	3.76	
	Gold King (25)	N.K.	41.8	92	*	*		7.1	D	B	6	2.3	4.0	3.3	3.0	3.9	3.4	4.0	3.4	3.9	3.59	
	Spartan Premium	Cro.	41.2	86	*			7.8	DN	B	8	1.9	3.9	3.9	3.9	4.0	3.4	3.9	3.4	3.8	3.73	
	Exp. 456	N.K.	41.1	92	*			6.8	DI	P	8	1.9	4.1	3.3	4.1	3.7	3.3	3.8	4.1	4.1	3.75	
	(9541x5986)5988	MSU	40.8	91	*	*		7.8	DN	B	8	1.8	3.9	3.3	3.3	4.0	3.1	3.9	3.4	3.3	3.47	
1	Spartan Classic	Cro.	40.5	89	*	*		6.0	DN	B	8	2.0	4.1	4.1	4.1	3.8	3.9	4.0	3.7	3.9	3.94	1
2	Spartan Deluxe	Cro.	39.0	83	*			6.5	ID	P	9	1.8	3.9	3.6	4.0	4.0	3.8	3.9	4.0	4.1	3.90	2
6	Spartan Winner	Cro.	38.7	85	*	*		6.8	D	B	8	1.8	3.9	3.7	3.4	4.0	3.4	4.0	3.6	3.9	3.70	
6	Spartan Bonus	Des.	38.5	96	*	*		7.1	D	B	7	2.0	3.8	3.3	3.8	4.0	3.7	3.8	4.0	4.1	3.80	6
3	(5931x1383)5986	MSU	37.3	88	*	*		7.1	DI	P	9	1.8	3.9	3.9	3.7	4.1	3.6	4.1	3.8	3.8	3.83	3
	(5931x1302)5988	MSU	36.9	77	*			8.4	DN	B	7	1.9	4.0	3.6	3.7	4.1	3.7	3.9	3.7	3.7	3.78	
	(872x9541)5988	MSU	34.0	81	*			5.8	D	B	7	2.1	3.9	3.4	3.4	3.9	3.3	4.1	3.6	3.7	3.62	
4	Danvers 126	Key.	33.6	89	*	*	*	6.2	D	P	6	2.2	3.7	3.3	4.1	3.8	3.7	3.9	4.0	4.2	3.83	4
	Chantenay 403	Key.	31.1	85	*			5.1	CD	B	6	2.2	4.0	3.2	3.7	2.9	2.6	3.3	3.2	2.8	3.17	
	Hyb. Gold (26)	Cro.	26.4	82	*	*	*	5.6	D	B	6	1.9	3.8	3.6	3.7	3.7	3.4	3.9	3.7	4.1	3.70	
	Chant.Red Core	Key.	24.5	77	*	*		3.9	CD	B	6	2.4	3.9	3.2	3.6	3.0	3.0	4.0	3.0	3.6	3.36	
5	Danvers Pride	Nia.	24.2	88	*		*	7.8	D	P	6	1.8	3.7	2.8	4.0	4.0	4.0	3.6	4.0	4.2	3.81	5

should be 1.8 instead of 1.0

NOTES: 20 varieties were seeded on 18 May 1976 in plots of 3 rows, 12ft. long, spacing 17-inches per row and replicated 3 times, thinned to approximately 9 plants/foot. Harvest Date: October 14.

Key: Score: 1 = least desirable, 5 = excellent. Tips: P = pointed, B = Blunt.

Type: I = imperator, N = nantes, D = danvers, GP = gold pak, C = chantenay, LN = long nantes.

Culls: U = undersize, F = forks, S = splits, C = crooked.

The best color was found in: Danvers Pride, but low yield, not smooth. Spartan Classic, excellent; Spartan Deluxe; Spartan Bonus; (5931 x 1302)5988; Royal Danvers; Danvers 126.

1975/76 CARROT VARIETY STORAGE TRIAL

20 varieties replicated 3 times were kept in refrigerated storage from October 1975 to June 30, 1976 at temperatures between +1°C and +5°C.

Highest % Marketable at June 30th, 1976:

Royal Danvers	54.5%
Hipak	50.8%
Klondike Nantes	50.5%

April 15 1974/75

Variety	Rating		Variety	Rating	
Grenadier	3	4+	Klondike Nantes	4+	4+
310 Hipak	4+	4-	Canuck	2-	4+
318 Pioneer	3+	3+	Dominator Hyb.	3+	4+
Spartan Delite	3-	4-	Gold Pak 28	3-	~~4~~ 5-
Spartan Fancy	1		Imp. Long 58	4-	?
Spartan Winner	4-	3	Spartan Sweet	3+	?
311 Hipak Elite	2-&-	4+	323 Scarlet Nantes	2+	?
Spartan Classic	3+	3	Danvers 126	4-	4-
Spartan Premium	4	3+	Royal Danvers	5-	
301 Trophy	4-	4-	Spartan Bonus	4-	4-

fair

fair ?

fair

Nantes types only ✓ are fair keepers

Gold Pak - good

SUMMARY OF CARROT VARIETIES 1969-1976

LTA Long Term Averages of some of the available carrot varieties tested in our trials.

Variety	Source	# Years	1976 lgth.	1976 width	LTA Yld.B/A 1969-1976	Yield 1976	LTA % mkb.	% 1976	LTA Score	1976 Score
Spartan Classic	M.S.U.	4	6.0	1.5	1542	1620	87	90	3.8	3.7
Spartan Premium	M.S.U.	4	6.5	1.4	1527	1724	87	88	3.8	3.6
Spartan Winner	M.S.U.	4	6.5	1.4	1368	1544	82	87	3.8	3.6
Spartan Sweet	M.S.U.	8	7.3	1.4	1289	1344	80	87	4.1	3.8
Hipak Elite	Har.	8	7.0	1.4	1233	1420	85	90	3.8	3.7
Spartan Fancy	M.S.U.	8	7.4	1.2	1227	1463	86	88	4.0	3.9
Scarlet Nantes	Har.	7	5.9	1.5	1210	-	78	-	3.4	-
Trophy (9160AN)	Har.	4	7.4	1.3	1210	1473	85	90	3.8	3.8
Pioneer 318	Har.	8	6.6	1.4	1205	1411	80	87	3.8	3.6
Spartan Delite	M.S.U.	8	7.6	1.3	1200	1321	86	84	4.2	3.9
Grenadier	Har.	8	8.0	1.3	1190	1287	83	86	3.9	3.9
Highlight	Asg.	5	-	-	1189	-	84	-	3.7	-
Dominator	Key.	8	7.0	1.3	1151	1297	85	85	3.8	3.7
Carousel	Asg.	6	7.2	1.4	1132	-	74	-	3.9	-
Canuck	Sto.	8	6.6	1.3	1096	1235	84	81	3.9	3.6
Gold Pak 28	F.M.	8	7.7	1.3	1040	1093	85	89	4.0	3.8
Gold Pak 61	Key.	6	-	-	995	-	85	-	4.1	-
King Imperator	N.K.	6	-	-	976	-	80	-	3.7	-

in Sp. North.

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

only 1 row of 15ft carrot e.r can be better, seldom worse
Not thinned

CARROT ADAPTATION TRIAL - 1976. MAINLY PACKAGING TYPES

High score

Variety	Source	Stand/ft.	Mkb.Bu/ac.	% Mkb.	Type Culls	Roots Length(ins)	Roots Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color Int.	Color Ext.	Core Size	Resist.to Greening Shoulder	Resist.to Greening Core	R.R.	Score
King Imperator	Sto.	13	1672	91	CF	8.9	1.5	GPI	P	4	4+	3+	3	4-	4-	4	3+		3.66
Exp.Hyb. 1 (XPXUP)	Sto.	10	1254	80	U	8.7	1.4	I/GP	P	4-	4	4-	4-	4	4	4-	4-		3.80
Exp.Hyb. 2 (XPXUP)	Sto.	10	1292	82	UF	8.5	1.4	I	P	4	4	4-	4-	4-	4	4	4		3.86
NCX 6017	FMC	8	1444	82	U	8.5	1.5	I	P	4-	4	4-	4-	4	4	4-	4		3.83
75647/11224	Har.	21	1501	86	UF	8.4	1.3	GPI	P	4-	4	4-	4	4-	4	4	4+		3.90
(5931x1383)5986	MSU	16	1776	89	U	8.2	1.3	IGP	P	4-	4	3+	4-	4	4	4	4-		3.78
Exp.Hyb. 4 (XPXUP)	Sto.	14	1681	84	UF	8.2	1.4	I	P	4-	4-	3+	3	4	4	4-	3		3.56
Exp.Hyb.3 (XPXUP)	Sto.	20	1567	83	UF	8.1	1.3	I/GP	P	4-	4	4-	3	4-	4	4-	4-		3.72
Spartan Sweet A	Cro.	21	1871	89	UF	8.0	1.6	IN	P	4-	4-	3+	4	4-	4-	4	4		3.75
Exp. 484	N.K.	13	1472	81	UCF	7.7	1.3	I	P	4	4	4-	3	4	4	4	4		3.82
Exp.Hyb.1 XP Flacoro	Sto.	19	1710	83	U	7.7	1.5	ID	P	3+	3	2+	3	3+	4-	3+	4-		3.25
6KSP/11144	Har.	16	1677	94	CF	7.6	1.3	IGP	P	3+	4	4-	3+	4	4	4-	4-		3.71
791AN/11124	Har.	14	1610	88	UF	7.6	1.3	IGP	P	3+	4-	4-	3+	4-	4+	4-	4-		3.66
Oranza	Bec.	17	2175	94	U	7.6	1.5	LN	B	4-	4-	3+	3+	4-	4	3-	2+	*	3.34
XP 263	Asg.	13	1230	93	UC	7.5	1.3	IGP	P	4	4	4-	4-	4	4	4	4	*	3.90
76AN/11134	Har.	19	1653	86	UF	7.5	1.4	IGP	P	4-	4	4-	3+	4-	4	4	4		3.79
NCX 6020	FMC	27	1753	72	U	7.4	1.3	IGP	P	4	4	3+	4	4	4	4-	4-		3.78
79147/11234	Har.	15	1715	90	UF	7.4	1.3	IIN	P	4-	4	3+	4-	4	4+	4	4-		3.82
XP H15	Asg.	15	1268	83	UF	7.4	1.4	D	P	4	3+	3-	3+	3+	4	4	4	*	3.51
Gold Pak	Asg.	13	1400	87	U	7.4	1.4	ID	P	4-	4-	3	3+	4-	4	3+	4-		3.48
Gold Pak Elite	Sto.	14	1187	84	U	7.4	1.4	ID	P	4-	3	3	3-	4-	4	4-	4-		3.38
XP 127	Asg.	19	2033	86	UC	7.4	1.5	LNI	P	3+	4-	3	3+	4-	4	3+	3		3.36
Hyb. Dominator	Key.	11	1672	96	UF	7.2	1.5	ID	P	4	4	3-	3-	4	4	3	3		3.33
Superpak	VDB	9	1254	94	F	7.2	1.3	NI	B	3+	4-	3+	3	4-	4	4-	3+		3.44
NCX 6014	FMC	17	1624	92	U	7.2	1.3	I	P	4-	4	3+	4-	4	4	4-	4-		3.68
79/SP/11164	Har.	20	1653	87	UF	7.2	1.3	IGP	P	4-	4-	3+	3	4-	4	4	3+		3.52
(5931x5986)107	MSU	15	1833	92	UF	7.2	1.4	ID	P	4	4-	4	4	4-	4	4-	4		3.86

CARROT ADAPTATION TRIAL - 1976. MAINLY PACKAGING TYPES

Variety	Source	Stand/ft.	Mkb.Bu/ac.	% Mkb.	Type Culls	Roots Lgth.(ins)	Roots Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color Int.	Color Ext.	Core Size	Resist.to Greening Shoulder	Resist.to Greening Core	R.R.	Score
Woodland	N.K.	10	1154	87	U	7.2	1.4	D	P	4-	4	3+	3	4	4	4	4-		3.66
70900 F1	R.Sl.	14	2109	88	UCF	7.2	1.5	LN	B	4-	4	4	4-	4	4	3+	4-		3.78
6K13/11214	Har.	14	1981	87	UF	7.2	1.5	ND	B	3+	4-	4-	3-	4-	3+	3+	3+		3.41
Forba	D.P.	11	1734	93	U	7.2	1.3	D	P	4-	4-	2+	4-	3+	3	3	4	*	3.23
756AN/11114	Har.	18	1339	87	U	7.1	1.3	IGP	P	4-	4	4-	3+	4	4+	4-	4-		3.77
Ultra Pak	Sto.	8	750	71	UC	7.1	1.5	I	P	4	3+	3-	3+	4-	4-	4-	4		3.44
(5931x1302)1391	MSU	19	1762	88	UF	7.1	1.5	ID	P	3+	4-	3+	3	4	4	4-	4-		3.52
PWX 1774	P.W.	5	1354	87	U	7.1	1.9	D	B	3+	4	3+	3	4-	4	4	4		3.58
70900 F1	Ro.B.	16	1776	95	UC	7.0	1.4	NND	B	4-	4-	4-	4-	4-	4	3	3-		3.46
XP 232	Asg.	16	1520	93	U	7.0	1.5	D	P	3+	4-	3+	3	4	4	4-	4		3.58
(5986x1302)107	MSU	16	1496	94	UC	7.0	1.5	D	P	4	4	3+	4-	4	4	4	4		3.66
6K6/11194	Har.	20	2190	86	F	7.0	1.5	DN	B	3	4	3+	3	4	4	3+	3		3.44
Spartan Premium	MSU	22	2114	86	UF	7.0	1.5	ND	B	4-	4-	3+	4-	4-	4	4-	4		3.67
Fanci Pak	N.K.	12	1586	76	UCF	7.0	1.5	DNI	B	4-	3+	3-	3+	4-	4	4-	4-		3.41
Exp.Hyb.3(XP Flacoro)	Sto.	20	1605	82	U	7.0	1.7	D	P	4-	3-	3-	3-	4-	4	4-	3		3.24
Colora	Bee.	21	1463	86	U	6.9	1.3	NI	B	4	3+	4-	3+	4-	4	3+	3+		3.58
(5931x5986)1302	MSU	17	1235	73	UF	6.9	1.4	DGP	P	3+	4-	3+	3	4-	4	4	4		3.63
XP 486	Asg.	27	1995	77	UC	6.9	1.4	NNI	B	4-	3	3	3-	4-	4	4-	4-		3.38
(5931x6000)107	M U	13	1691	89	UF	6.9	1.5	D	P	4-	4	4-	3+	4-	4	4-	4-		3.72
Lance	Des.	18	1349	90	U	6.8	1.3	I	P	4-	4-	3-	4-	4-	4	4	4+		3.67
XP 159 Paramount	Asg.	17	1282	87	U	6.8	1.3	D	P	4-	3	3+	4-	4-	4	4	4-		3.64
(5931x5986)1383	MSU	15	1187	75	U	6.8	1.3	ID	P	-	3+	3+	3+	4	4	4	4-		3.55
791SN/11074	Har.	13	1529	87	UF	6.8	1.4	IN	P	4-	4-	4-	4-	4	4+	4-	4-		3.80
XP 231 Diplomat	Asg.	14	1434	81	UF	6.8	1.5	DI	P	4	3	3	3+	4	4	4	3+	*	3.47
(5931x6000)1391	MSU	13	1225	72	UF	6.8	1.5	D	P	3+	4-	3+	3	4	4	4-	4-		3.56
Tito	D.P.	16	1648	88	U	6.7	1.5	N	B	4-	4-	4-	3	4-	4	3+	3-		3.53
(6000x5986)107	MSU	19	1862	86	U	6.7	1.5	D	P	4-	4-	3+	3+	4-	4	4-	4-		3.60

CARROT ADAPTATION TRIAL -1976. MAINLY PACKAGING TYPES

Variety	Source	Stand/ft.	Mkb.Bu/ac.	% Mkb.	Type Culls	Roots: Lgth.(ins)	Roots: Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color: Int.	Color: Ext.	Core Size	Resist.to Greening: Shoulder	Resist.to Greening: Core	R.R.	Score
Javelin	Des.	12	755	67	U	6.6	1.3	I	P	3+	3+	3+	4-	4	4	4	4+	*	3.66
(5931x1302)107	MSU	19	1582	76	U	6.6	1.3	D	P	3+	3	3-	3	4-	4	4-	4		3.37
6K4/11174	Har.	12	1506	88	F	6.6	1.4	N	B	3	4	4-	3-	4	4	3+	3-		3.37
Holland Glory	VDB	8	1159	73	U	6.6	1.4	N	B	3-	4	3	3-	4	4	2	3-		3.12
Spartan Sweet A	Key.	18	1814	90	UF	6.6	1.5	DDN	P	3+	4-	3+	4	4	4	4-	4-		3.74
Hyb. Crk. W109	Cro.	20	1482	75	UC	6.5	1.4	ND	B	3+	3+	3	4-	4	4	3-	3+		3.46
Hyb. Crk. W123	Cro.	13	1425	87	UF	6.5	1.5	DN	B	3+	4-	3+	4-	4-	4+	4	4-		3.63
Spartan Winner	MSU	13	1582	88	UF	6.5	1.5	ND	P	3	4-	3	4-	4	4	3	4-		3.45
70899 F1	Ro.B.	11	1477	95	UF	6.5	1.6	D	P	3+	4	4-	4-	4	4	4	4+		3.85
Hyb. Crk. W111	Cro.	22	1477	88	U	6.4	1.4	ND	B	3+	4-	4-	4-	4-	4	4-	4		3.72
(5986x6000)1391	MSU	19	1339	86	UC	6.3	1.3	GP/D	P	4-	4-	4-	4-	4-	4+	4-	4		3.80
Foram	R.Sl.	9	760	83	UCF	6.3	1.3	N	B	4-	4-	3+	3	3+	4	4-	4-		3.52
PWX 1274	P.W.	18	1382	73	UF	6.3	1.4	DI	P	3	3	2	3	4-	4	3	3+		3.00
(5931x6000)1394	MSU	14	1510	91	UF	6.3	1.4	ID	P	4-	4-	3	3+	4-	4	4	4		3.60
Hyb. Crk. W238	Cro.	18	1786	91	U	6.3	1.4	NND	B	4-	4-	4-	4-	4	4	4	4		3.83
Special Nantes 616	Sto.	13	1187	78	U	6.3	1.4	N	B	3+	4-	4-	3+	4-	4	3+	4-		3.60
Bercoro	Ro.B.	20	1563	83	U	6.3	1.5	NND	B	4-	3	3+	4-	4-	4-	4-	4-		3.50
Special Long Type Nant.	Sto.	11	1786	86	UF	6.3	1.6	ND	B	3	3+	3	3-	3+	4	3	3-		3.11
Imperator 68	Key.	14	1168	84	UF	6.2	1.3	IIN	P	4-	3	2+	3	4-	4-	4-	4	**	3.31
Autumn King SG 571	S.Gr.	11	1187	59	U	6.2	1.7	D	B	3	4-	3+	3	4-	4-	4-	4-		3.50
Minicor	R.Sl.	12	1054	82	U	6.1	1.2	N	B	4-	4-	3+	3+	4-	4	3	3		3.41
Exp. Hyb. 3705	Key.	24	1429	87	UC	6.1	1.2	DI	P	4-	3	3+	4	4	4+	4-	4		3.71
Ace	FMC	16	1178	75	UF	6.1	1.3	DN	P	4	3+	3	2	4-	4-	4-	3	*	3.26
6K12/11204	Har.	13	1273	79	UF	6.1	1.4	NDI	B	3+	3+	3	3+	4-	4	3+	4		3.46
Exp.Hyb.2 (XP Flacoro)	Sto.	21	1734	85	UC	6.1	1.5	DN	B	3+	3-	3	3+	4-	4	4-	4-		3.42
EN13/11094	Har.	20	1719	83	U	6.1	1.6	N	B	3	4	3+	3-	4-	4	3+	3		3.41
Karotan 4914	Asm.	11	836	87	U	6.1	1.6	IID	P	4	2	3-	4	4-	3+	4	3+	***	3.33

CARROT ADAPTATION TRIAL - 1976.

MAINLY PACKAGING TYPES

Variety	Source	Stand/ft.	Mkb.Bu/ac.	% Mkb.	Type Culls	Roots: Lgth.(ins)	Roots: Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color: Int.	Color: Ext.	Core Size	Resist.to Greening: Shoulder	Resist.to Greening: Core	R.R.	Score
DP 44	D.P.	15	1577	81	U	6.1	1.8	D	P	4-	4-	3+	4	4	4-	4-	4	*	3.72
Exp. Hyb. 3706	Key.	19	1311	73	UC	6.0	1.3	D	P	4-	4-	3	4-	4-	4	4-	3+	*	3.56
756SN/11084	Har.	26	1724	86	U	6.0	1.3	ND	B	3+	3+	3+	4	3+	4+	4-	4		3.62
Tancar	Cla.	25	2242	79	U	6.0	1.5	N	B	3+	4	4-	3	4-	4	3+	3+		3.55
Nanta	Bee.	9	926	86	U	5.9	1.3	ND	B	4	4-	4-	4-	4	4	4-	4-		3.80
Nantes Tip Top	S.Gr.	20	1211	61	U	5.9	1.4	N	B	4-	4-	4-	3	4-	4	3+	3-		3.53
V. Longa	Bee.	12	1197	86	U	5.9	1.5	D	P	4	3+	3-	3	4-	3+	3+	3-	*	3.22
Exp. Hyb. X198	Cla	17	2223	88	UF	5.9	1.6	NND	B	3+	4-	4-	4-	4	4	4-	4-		3.72
Spartan Classic	MSU	13	1738	93	UF	5.7	1.7	D	P	3	4-	3	3	4-	3+	4	4		3.41
Scarlet Nantes	Asg.	20	1197	73	U	5.5	1.5	N	B	3	4	3	3	3+	4	3	4-	*	3.33
XP 539	Asg.	18	1677	82	U	5.5	1.6	N	B	4-	4	3+	3+	4-	4	3+	3+		3.55
Amsterdamse Zoetebak	N.Z.	19	902	82	U	5.4	1.1	N	B	4-	4-	3+	3+	4-	4	3+	3+		3.55
Super Nantes	Sto.	22	1083	66	U	5.4	1.2	N	B	4-	3+	2	4-	4-	4	4	4-	*	3.34
Imperator 406	N.K.	9	503	64	U	5.4	1.2	D	P	4-	3+	2+	3+	3+	4	4	4	**	3.40
XP 542	Asg.	18	1482	85	U	5.3	1.4	N	B	4-	3+	3	3+	4-	4	3	3+		3.40
Rosal	D.P.	17	1007	67	U	5.2	1.4	D	P	4	3-	2+	3+	4-	4	4-	3	***	3.23
VDB Ideal	VDB	18	1539	82	U	5.2	1.6	D	P	3	3-	2+	3	4-	4	3	3		3.07
756SP/11154	Har.	24	1268	79	U	4.9	1.3	D	P	4-	3	3-	3+	4	4	4-	4-	*	3.45
Saber	Des.	19	1045	75	U	4.9	1.3	D	B	3	3	3	3	4-	4	4-	4-	*	3.34
Nantes K Strain	Key.	23	845	57	U	4.9	1.4	N	B	3+	4-	3	3	4	4	4-	4	*	3.52
NR 17/75 Baby type	D.P.	10	385	56	U	4.8	1.0	N	B	3	3+	2+	4-	4-	4	3	3-		3.12
PGR 1230	PGR	17	750	65	U	4.7	1.5	D	P	4-	3+	2+	3+	3+	4	4	4-	**	3.36
Touchon Deluxe	Sto.	17	1026	72	U	4.5	1.3	N	B	3+	3+	3	4-	4	4	4-	4-	*	3.55
PGR 1229	PGR	14	1311	82	U	4.7	1.6	D	P	3+	4-	3	4	4	4	4	4	*	3.70

CARROT ADAPTATION TRIAL - 1976. MAINLY PACKAGING TYPES

Variety	Source	Stand/ft.	Mkb.Bu/ac.	% Mkb.	Type Culls	Roots Lgth(ins)	Roots Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color Int.	Color Ext.	Core Size	Resist. Greening Shoulder	Resist. Greening Core	R.R.	Score
XP 441	Asg.	7	423	78	U	4.7	1.6	D	B	3+	3-	2+	4	4-	4	4-	4	**	3.41
PGR 1228	PGR	10	1187	88	U	4.3	1.7	DC	P	3-	3	3-	3	4-	3+	4	4	*	3.23
AMCA	Cla	22	427	46	U	4.2	1.0	N	B	3	2	2+	4-	4-	4	4-	4		3.26
Kobak	D.P.	8	318	74	U	4.0	1.0	D	P	3	3+	2	3+	3+	4	4-	4-		
XP 430	Asg.	9	413	84	U	3.8	0.6	DN	P	3+	4	3	4+	4-	4+	4	4	*	3.73

NOTES: Listed in order of length.

Key: 1 = least desirable; 5 = most desirable

Culls: U = undersize; C = cracks; F = forks

Type: D = Danvers; C = Chantenay; N = Nantes; GP = Gold Pak; I = Imperator; LN = Long Nantes

Rusty Root: * = slight amount observed
*** = heavily affected with rusty root.

(5931 x 5986) 1304
also good package carrots - John Slenkola

CARROT ADAPTATION TRIAL - 1976. MAINLY PROCESSING TYPES.

Variety	Source	Stand/ft.	Mkb.T/A	% Mkb.	Type Culls	Roots Length(ins)	Roots Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color Int.	Color Ext.	Core Size	Resist.to Greening Shoulder	Resist.to Greening Core	R.R.	Score
Spartan Bonus	Key.	13	53	96	C	6	1.9	DN	B	3+	4	3+	3+	4-	3	3+	4-		3.43
Red Core Chant.503	Asg.	10	53	93	U	5	2.0	C	B	3+	4-	3+	3+	4	3+	4-	4		3.55
Royal Danvers	Agw.	14	53	84	UC	7	1.7	D	B	4-	4	3+	4-	4-	4	4-	4		3.75
Exp. Hyb. X115	Cla.	16	49	91	CF	6	1.6	N	B	3+	4	4-	3+	4-	4	4-	4-		3.67
XP 402	Asg.	10	48	94	UC	5	2.1	CD	B	3+	4-	3	2+	4-	3	3+	3		2.77
Nandor	Cla.	19	48	89	UC	6	1.5	N	B	3+	4-	4	4-	4	4	3+	3+		3.66
Touche	Des.	15	46	92	U	5	1.8	D	B	3+	4-	4-	4	4-	4	4-	4	*	3.75
PWX 1174	P.W.	11	44	90	C	6	1.9	D	B	4	4-	3+	3-	4-	4-	4-	4-		3.53
Hyb.Crk. W11	Cro.	11	44	90	UC	7	1.9	DN	B	4-	4	4-	4-	4-	4	4-	4		3.80
Dess Dan	Des.	12	44	88	F	6	1.8	DN	B	3+	4-	3+	4	4	4	4-	4		3.74
PWX 508	P.W.	10	44	83	UF	8	1.8	DI	B	4-	4	4-	4-	4-	4	4-	4		3.80
Exp.Hyb. X200	Cla.	13	41	82	UF	6	1.7	D	P	4	4-	3+	4-	4-	4	4-	4		3.75
Aut.King Fakkel(R)Mix	S.Gr.	11	41	82	UCF	7	1.9	DDI	P	4	4-	3	3	4-	3+	3-	4-		3.37
(5931x6000)872	MSU	11	39	80	C	7	1.6	I	P	4-	4	4-	4-	4	4-	4	4+		3.85
(5931x5986)872	MSU	9	38	86	CF	7	1.9	DN	P	3+	4	4-	3+	4	4	4	4		3.77
(6000x9541)5988	MSU	14	38	83	UC	7	1.7	N	B	3+	4-	3+	3	4	4	4-	4-		3.60
Hyb. Crk. W320	Cro.	14	38	73	C	6	1.8	DN	B	4-	4-	4-	4-	4-	4	4-	4		3.76
NCX 6010 M	FMC	19	37	93	U	6	1.7	D	P	4-	3	3	4	4	4	4	4	*	3.71
Exp. 451	N.K.	12	37	90	UC	4	1.7	ND	B	3+	4-	4-	3	4	4	4-	4		3.67
Can Pak	Des.	13	37	88	CF	7	1.7	DI	P	4-	3+	3+	3+	4	4	4-	4-		3.63
(5931x5986)1304	MSU	10	37	77	UF	8	1.8	ID	P	3+	4	4-	3+	4	4	4	4+		3.81
(5941x5986)5988	MSU	10	35	90	C	7	1.7	DN	B	3	4	4-	4	4-	4	4-	4		3.75
Hyb.Crk. W291	Cro.	20	35	90	U	7	1.5	I/GP	P	4	3+	4-	4-	4	4	4	4+		3.85
Exp. 474	N.K.	9	35	78	CF	7	1.5	ID	P	3+	4	4-	3+	4	4	4	4		3.77
729136 (1977 TARGET)	Har.	13	34	97	U	5	1.4	DIGP	P	3+	3	3+	4	3+	4	4-	4+		3.62
Tabor	Cla.	11	34	76	UC	6	1.9	N	B	3	4	4-	4-	4	4	4-	4-		3.72
PWX 1574	P.W.	18	31	79	U	5	1.7	CD	B	3	3	3+	3	4	4	4	4+		3.58

CARROT ADAPTATION TRIAL - 1976. MAINLY PROCESSING TYPES.

Variety	Source	Stand/ft.	Mkb.T/A	% Mkb.	Type Culls	Roots: Length(ins)	Width(ins)	Type	Tips	Crown	Uniform	Smoothness	Color Int.	Color Ext.	Core Size	Resist.to Green. Shoulder	Core	R.R.	Score
Lance	Des.	14	30	81	UF	7	1.4	I/GP	P	4-	4	4-	4-	4-	4+	4	4		3.86
Danvers 126	Agw.	9	30	86	UCF	6	1.8	D	P	4	4-	3+	3	4	4-	4-	4		3.67
Exp. 452	N.K.	11	29	78	UC	5	1.7	NC	B	3	3+	4-	3	4	4	4-	4-		3.56
(5931x6000)1304	MSU	10	29	67	UCF	7	1.4	ID	P	4	4-	4-	3	4	4	4	4		3.78
Exp. 453	N.K.	6	28	85	C	5	1.8	DN	B	3	4-	4-	3+	4-	4	4-	4		3.64
Red Core Berlikum	VDB	13	27	93	U	7	1.3	NNI	B	4	4-	4-	3	4	4	4-	4		3.75
Berlicum Bertina (R)	S.Gr.	7	26	93	U	6	1.5	LN	B	3+	4-	4-	3+	4	4	4-	4		3.71
Flam Flakkee	D.P.	13	24	77	U	7	1.8	D	P	4	4-	3-	3-	4	3	3+	3+	*	3.37
Chantenay SG581	S.Gr.	14	24	71	UC	4	1.6	CH	P	3+	4	3+	4	4-	4	4-	4	*	3.67
Flacaro	Rog.	8	23	68	CF	7	1.8	D	P	4	4	3	4-	4	4-	4	4	*	3.71
Flakko	N.Z.	12	23	70	UC	5	1.7	D	P	4-	3	3+	4-	4-	4-	4-	4-	*	3.54
Danvers 126	Key.	17	22	81	U	5	1.2	N	B	4-	3-	3+	4-	4-	4	4-	4-		3.57
Saber	Des.	14	22	79	U	5	1.5	NND	B	3+	3-	3+	4-	4-	4	4-	4-	*	3.53

22" x 18" NOT TIED REPLICATED 4X

CAULIFLOWER MAIN VARIETY TRIAL - 1976

Direct Seeded June 15 - Plants NOT Tied

= 6" + in diam

NOT TIED

Variety	Source	Days to Harvest	Mkb. Yield crts./Acre	% Mkb.	% Curds without any loss of color	Degree Curd Protection
White Top	S.Gr.	96	1094	99	62 1	2.6 2
Raket early 3	S.Gr.	87	1028	96	2	1.9
Idol early 2	Sto.	87	969	93	2	1.5
Alert early 1	Oh.E.	74	956	88	4	1.9
Clou	Sto.	92	909	90	11	1.9
Self Blanche	Sto.	96	900	96	48 2	3.8 1
Suprimax	R.Sl.	92	847	90	18	2.2
Delira	R.Zw.	97	831	96	20	2.1 3
Nevada	R.Zw.	95	732	88	30 3	2.2
Snowball Y	Sto.	95	553	70	22	2.1

very good

Notes: Spacing 18" in the rows, rows 23" apart. After thinning the plant stand was reduced by wirestem and clubroot infection. At harvest the plants were not tied and in the last two columns is reported the percentage of heads that did not loose any color at all and the degree of shade protection the leaves provided.
5 = most desirable.

NOT TIED

CAULIFLOWER ADAPTATION TRIAL - 1976

Direct Seeded June 15 - Plants NOT Tied

Non white some Bract small, bracted

Variety	Source	Days to Harvest	Mkb. Yield crts/acre	% Mkb.	% Curds without any loss of color	Degree Curd Protection
Dominant	Ves.	108	725	94	28	2.4
Torina	Bee.	92	788	90	12	1.6
Elgon	R.Sl.	127	750	100	36	3.3
Nimba	R.Sl.	122	338	100	16	2.9
Avans	Oh.E.	99	838	89	32	2.3
Tornado	S.Gr.	91	838	94	8	2.0
Cyrano	Bee.	99	963	100	20	2.3
White Christmas	Sak.	96	1000	100	12	1.5
Solo Crop	Brc.	94	1100	96	48	2.4
Snow Crown E	Tak.	72	925	90	52	2.8
Lawyna	S.Gr.	92	975	91	20	2.1
Roberna	V.D.B.	92	1013	100	12	1.7
Exp.Hyb. 6353	Key.	95	925	100	4	1.7
Exp.Hyb. 8791	Key.	94	1000	100	28	2.4
Snowball 90	Key.	118	425	56	4	2.0
Igloo	Key.	115	613	93	8	1.9
Strong Osena	Key.	113	913	100	32	2.0
Winner Osena	Key.	115	188	100	4	1.5
Super Snowball	Key.	119	200	67	0	2.2
Master Osena E	Key.	86	725	75	0	1.1
Supra	V.D.B.	104	838	90	20	2.3
Marva	Bee.	89	900	95	0	1.4
Monarch 73	Asg.	93	588	67	12	2.2
Early Snowball X	Asg.	114	450	53	12	2.3

CAULIFLOWER ADAPTATION TRIAL - 1976

Direct Seeded June 15 - Plants NOT Tied

Variety	Source	Days to Harvest	Mkb. Yield crts/acre	% Mkb.	% Curds without any loss of color	Degree Curd Protection
Super Snowball A E	Asg.	82	725	100	0	1.3
Snow Flower	Asg.	93	663	82	24	2.1
Brendo	D.P.	94	650	93	24	2.3
Zora 89-5	R.Sl.	91	1050	100	44	2.3
Durate	R.Sl.	104	875	84	32	2.2
Maxar	Ro.B.	97	688	88	36	2.5
Veralto E	Ro.B.	87	475	47	0	1.6
Kassa	V.D.B.	116	988	95	40	2.6
Somfest	V.D.B.	88	988	100	8	1.6
Delta	V.D.B.	94	1050	100	0	1.5
Sera	V.D.B.	96	575	68	4	1.8
Blenda	V.D.B.	112	738	67	12	2.0

EARLY : Snow Crown
Super Snowball A
Master Osena
Veralto

YIELD: Solo Crop
Zora 89-5
Delta
White Christmas
Exp Hyb 8791
Snow Crown

Very promising all around.

purple?? underneath disappears after cooking???

in order of overall yield (2 yield figures) 4 replications

TRANSPLANTED CELERY VARIETY TRIAL - 1976

Variety	Source	Yield Mkb T/A Early Harvest	Yield Mkb T/A Ave. of all Harv. dates	% Trim Loss	Ave. Pet. length	Ave. Stalk width	Total Length	Ribbing	Int. Sucker growth	Crispness	Stringy	Compactness	Boron Def. (cat scratches)	Yellow leaves
			Best											
Florida 2-13	Key	40.5	48.0	15	10.3	3.3	22.3	R	3.1	3.9	3.3	3.0	3.8	3.7
52-70 K Strain	Key	30.8	47.4	16	11.6	3.4	23.6	M	3.6	4.0	3.7	3.3	3.9	2.7
Tendercrisp	Sto	34.1	47.0	17	12.3	3.3	24.3	M	3.6	4.1	3.8	4.0	3.4	4.0
8190	FM	35.7	46.9	17	11.8	3.4	24.6	M	3.0	3.9	3.6	3.7	3.8	3.0
Florida 683	Asg	35.0	46.0	16	10.6	3.3	22.6	R	3.0	3.7	3.6	2.9	3.9	3.7
H28	Har	38.8	44.9	16	11.0	3.2	23.3	R	3.7	3.8	3.3	3.8	4.0	3.7
Florida 2-14	Key	33.9	44.4	15	11.1	3.0	24.0	R	4.0	4.1	3.7	3.7	3.6	3.3
3036	FM	31.9	44.4	21	10.1	3.4	22.6	R	3.1	4.0	3.7	3.7	3.8	3.0
373 Clean Cut	Har	44.7	44.3	19	11.1	3.2	25.3	R	3.8	4.1	3.7	4.0	3.4	3.7
Calmario	FMC	25.8	43.0	19	10.1	3.3	21.6	R	3.2	3.7	3.2	3.1	3.9	2.7
H26	Har	40.1	42.8	21	10.5	3.3	23.6	R	3.3	3.9	3.7	3.4	3.6	4.0
Tall Utah 52-70R Improved	FM	30.0	42.4	19	10.6	3.1	23.0	R	3.7	3.8	3.6	3.3	3.7	3.0
52-70R	Asg	30.2	42.4	15	10.0	3.3	22.0	R	3.3	3.9	3.3	3.6	3.3	3.0
Imp. Utah 52-70	Sto	29.1	41.5	12	10.6	3.2	23.0	R	3.5	3.9	3.3	3.1	3.4	4.3
Earlibelle	Key	26.0	41.4	21	10.1	3.2	23.3	R	5.0	3.8	3.5	3.5	4.1	3.3
Florimart	Sto	35.7	39.7	21	10.5	3.3	22.0	R	3.3	3.9	3.7	3.4	3.7	4.3
Tall Processor	Key	29.7	41.0	16	12.5	2.9	23.3	R	4.1	4.0	3.4	4.2	3.8	3.3
52-70H Improved	Key	28.2	39.7	19	10.0	3.0	22.0	R	4.0	3.7	3.2	3.1	3.9	3.0
Surepak	FM	36.6	39.1	24	12.5	3.0	24.7	R	3.7	4.0	3.4	4.0	3.9	3.3
52-70R Strain Imp.	Key	30.0	38.6	23	10.1	3.2	22.6	R	3.6	4.0	3.7	3.2	3.7	4.0
8191	FM	38.5	38.0	20	10.3	3.1	24.3	R	3.6	4.0	3.8	3.9	3.7	4.0
Beacon	Key	22.0	37.2	19	9.0	3.3	20.6	M	3.6	3.9	3.7	3.0	3.2	3.0
Junebelle	Key	29.9	35.9	36	10.0	3.4	23.3	R	3.0	4.0	3.4	3.4	3.8	2.0

Notes: Seeded in greenhouse March 11. Transplanted to flats April 1. Transplanted to field May 10, in single rows 23" apart, in-row spacing 7", replicated 4 times. The average low temp. for May was 5°C and the high 15°C. On May 12, the ground temp. dropped to -1°C and on May 13 to -5°C, however, no seed stalks developed. 1st harvest on July 27, replication 1. The other replications were harvested on Aug. 4, 9, & 24. "Yellow leaves" is the degree of loss of green color on the outer leaves as the plant grows older.

Ribbing: R = Rough M = Medium S = Smooth

2 replications

LATE CELERY VARIETY TRIAL - 1976

Variety	Source	Mkb. Yield T/Acre	% Trim Loss	Av. Petiole Length	Av. Stalk Width	Total Length	Int. Sucker Growth	Crispness	Stringy	Compactness	Boron Deficiency	Yellow Leaves
Florida 213	Key.	63.0	14	10.5	4.0	21.0	4.1	3.7	3.2	3.2	4.7	3.2
3036	F.M.	59.3	20	11.0	3.8	21.3	3.0	4.0	4.0	3.8	5.0	3.1
Surepak	F.M.	58.2	6	12.0	4.1	21.0	4.0	4.0	3.2	3.6	4.7	4.1
H 28	Har.	57.5	17	10.5	4.2	23.2	4.0	3.8	3.9	3.9	3.9	3.7
Calmario	Nia.	55.6	17	10.0	3.8	22.0	3.5	3.8	3.4	3.7	4.2	3.3
Florida 214	Key.	54.0	24	10.0	3.5	20.3	3.9	4.0	3.6	3.5	4.7	3.4
Florida 683	Key.	53.2	13	9.8	4.0	21.9	3.6	3.3	3.0	3.3	5.0	3.2
Florimart	Sto.	53.1	18	11.8	4.3	19.7	3.9	3.8	3.5	3.3	3.1	3.8
Junebelle	Key.	52.9	18	10.3	4.0	20.8	3.6	3.8	3.9	4.1	5.0	2.9
52-70 H Imp.	Key.	52.7	14	9.5	3.9	21.3	3.2	4.0	3.7	3.7	4.7	3.2
Florida 683	Asg.	51.5	13	9.5	3.7	21.9	3.6	3.3	3.0	3.3	5.0	3.2
Imp. Utah 52-70	Sto.	50.7	19	11.0	3.8	21.0	3.7	4.2	4.1	3.7	4.3	3.3
Tall Processor	Key.	50.1	21	12.9	3.8	21.6	3.7	4.0	3.8	3.8	5.0	3.5
Earlybelle	Key.	50.0	17	9.0	3.8	21.0	3.4	3.6	3.1	3.2	3.9	3.2
Tall Utah 52-70 R Imp.	F.M.	49.7	19	10.5	3.7	22.0	4.0	4.0	3.5	3.8	4.4	3.5
8190	F.M.	48.4	21	11.0	3.4	23.0	3.3	4.1	3.8	4.2	5.0	3.6
Utah 52-70 R	Asg.	47.6	15	10.0	3.6	20.3	4.1	4.1	3.7	3.8	3.9	3.3
Processor 34	Key.	47.2	22	10.3	3.4	21.7	4.0	4.1	3.7	3.8	3.7	3.8
H 26	Har.	46.6	17	10.8	3.5	21.7	3.8	4.0	3.6	3.9	4.2	3.7
Clean Cut	Har.	45.9	17	11.8	3.3	22.7	3.7	4.0	3.5	4.0	4.1	3.7
XP 74	Asg.	43.2	20	10.8	3.3	22.7	3.6	3.9	3.5	3.1	4.3	3.4
Beacon	Key.	42.7	21	9.0	3.6	19.1	3.8	4.0	3.2	3.2	5.0	4.2
52-70 R Strain Imp.	Key.	42.4	20	9.8	3.2	21.0	3.6	3.6	3.0	3.7	4.2	4.2
52-70 K Strain	Key.	41.7	16	10.8	3.3	22.3	3.7	3.9	3.7	3.8	4.8	3.3
8191	F.M.	41.4	19	9.0	3.1	20.0	3.5	4.1	3.8	3.4	5.0	4.0
Tender Crisp	Sto.	40.3	14	11.0	3.3	21.7	3.3	3.8	4.0	3.1	4.7	3.5
Florimart 19	Key.	40.0	19	10.5	3.4	18.3	3.6	4.1	3.6	3.3	4.2	4.1

Notes: Direct seeded on May 14 and thinned to 7" spacing in rows 23" apart and replicated 2 times.
Harvested September 28 to 30.
5 = most desirable, 1 = least desirable.
Yellow Leaves is the degree of loss of green color in the outer leaves as the plants mature.

in order of rate

TRANSPLANTED HEAD LETTUCE VARIETY TRIAL - 1976

Variety	Source	Days to Harvest	% Marketable	Reason non-mkble.	Av.Weight 18 heads (lbs)	Av.Diam. (inches)	% Tipburn	Bottom Rot	Firmness	Uniformity	Int.Stem Length	Overall Rate
XP 812	Agw	95	93	slime	43	6.5	0	3.6	4.0	3.9	3.8	3.6
Minette	F.M.	95	83	soft, rot, slime	38	5.8	0	3.5	4.5	3.9	3.6	3.4
Fulton	Asg	95	90	slime	41	6.4	0	3.4	3.9	3.8	4.1	3.3
Fairton	Key	97	80	soft,slime	39	6.3	0	3.8	3.6	3.8	4.2	3.1
Ithaca	Key	95	83	bot.rot,slime	36	6.0	0	3.2	3.6	3.6	3.9	2.8
Portage	Har	95	93	slime	43	6.6	15	3.6	3.9	3.9	3.9	2.8
Empire	Key	97	63		48	6.3	10	3.3	4.1	3.8	3.8	2.5
Oswego	Key	95	83	soft,slime	38	6.3	20	3.4	3.8	3.8	3.9	2.2
Minilake	Sto	95	73	soft,slime	39	6.3	20	3.4	3.9	3.9	3.9	2.0
Oasis	Asg	97	93	bot.rot,soft	38	6.3	40	3.7	3.2	3.8	3.8	1.6
XP 815	Agw	95	80	slime	45	6.6	20	3.2	3.3	3.6	2.8	1.4
Mesa 659	Key	97	97	slime	41	6.7	80	3.9	3.3	3.8	3.6	1.0
XP 811	Agw	97	68	soft,slime	42	6.4	46	3.4	3.3	3.8	2.8	1.0
XP 2037	Asg	No germination										

Notes:
- Seeded March 25th in flats. Transplanted to field May 5th,
- Single rows replicated 4 times.
- Overall rate is the combination of scores for yield, weight, % tipburn and quality.
- 5 = most desirable
  1 = least desirable

No tipburn

EARLY SEEDED HEAD LETTUCE VARIETY TRIAL - 1976

Variety	Source	Days to Harvest	% Marketable	Reason Non-mkble.	Av.Weight 18 heads (lbs)	Av.Diam. (inches)	% Tipburn	Bottom Rot	Firmness	Uniformity	Int.Stem Length	Overall Rate
Fairton	Key	64	97	soft	39	6.1	0	4.1	3.8	4.0	4.2	4.0
Ithaca	Key	64	100		40	5.9	0	3.9	3.5	3.8	4.0	3.8
Fulton	Key	65	93	slime	41	6.2	0	3.9	4.1	3.8	4.0	3.7
Portage	Har	65	83	slime	38	6.1	0	3.8	4.0	4.0	4.0	3.7
Ithaca	Asg	65	97	slime	41	6.2	0	3.8	3.7	4.0	3.7	3.6
Ithaca	Har	65	97		46	6.3	0	3.6	3.7	4.1	3.6	3.5
Mesa 659	Key	65	93	soft	38	5.9	0	3.8	3.1	3.5	3.7	3.5
Fulton	Asg	65	97		37	6.0	0	3.4	3.6	3.6	3.8	3.4
Minilake	Sto	64	80	slime, bottom rot	36	6.1	0	4.0	3.6	4.0	4.1	3.4
Fairton	Har	65	93	soft	33	5.9	0	3.9	3.4	3.2	4.2	3.4
Great Lakes	Asg	65	100		38	6.3	6	4.2	3.2	3.5	3.7	3.4
Minetto	Key	65	83	slime	35	5.8	0	3.7	4.0	4.1	3.9	3.2
Minetto	F.M.	64	87	slime	31	5.8	0	3.3	4.0	4.0	3.9	3.1
Oswego	Key	65	77	slime	38	6.1	7	3.6	3.9	3.8	3.9	2.8
Oasis	Asg	70	50	slime, no heads	40	6.0	0	4.0	4.0	3.0	4.0	2.8

Best

Notes: - Seeded May 25th in single rows replicated 4 times.
- The overall rate is a combination of marks for yield, weight, % tipburn and quality.

not of interest to growers

EARLY SEEDED HEAD LETTUCE ADAPTATION TRIAL - 1976

Variety	Source	Days to Harvest	% Mkb.	Reason Non-mkb.	Av.Wt. 18 Heads (lbs)	Av.Diam. (ins)	% Tipburn	Bottom Rot	Firmness	Uniformity	Int.Stem Length	Overall Rate
E 4217	F.M.	65	100		40	6.3	0	4.3	3.3	3.7	2.0	3.3
XP 811	Agw.	71	100		32	6.1	0	4.0	3.0	3.3	3.3	3.2
Belleverde	Key.	71	80	misformed	37	6.2	0	4.0	3.3	3.3	4.0	2.9
Forty-niner	Asg.	71	90	misformed	44	6.6	0	4.0	3.3	3.0	1.3	2.7
XP 812	Agw.	65	60	slime	40	6.0	0	3.7	4.3	4.0	3.7	2.7
GL R200-95 MC	Key.	71	70	no head	35	6.0	0	3.7	3.3	3.0	3.0	2.3
GL 118 MC	Key.	71	100		36	6.4	4	3.7	3.3	3.7	3.0	1.2
Monterey	Key.	71	40	slime	35	6.5	40	3.7	2.7	4.0	1.0	1.0
XP 815	Agw.	71	90	misshapen	57	6.8	40	3.7	3.7	3.7	1.0	1.0
E 4226	F.M.	71	70	misformed, no head	40	6.4	20	3.7	3.0	2.0	1.0	1.0
Empire	Key.	71	80	slime	52	6.4	40	4.0	3.7	4.0	3.0	1.0
E 4224	F.M.	67	80	slime	41	6.2	60	4.0	3.7	3.3	2.0	1.0
Pico Verde	Key.	71	40	slime	49	7.0	50	3.0	3.0	4.0	3.3	1.0
Climax	Asg.	71	90	misformed	44	6.8	100	4.0	3.0	3.7	2.0	1.0

Notes: One single row per variety was seeded on May 25.

MID-SEASON HEAD LETTUCE VARIETY TRIAL - 1976

3 x Ithaca heavy wt
Fulton normal wt

no or little tipburn

Variety	Source	Days to Harvest	% Mkb.	Reason Non-mkb.	Av.Wt. 18 Heads (lbs)	Av.Diam. (ins)	% Tipburn	Bottom Rot	Firmness	Uniformity	Int.Stem Length	Overall Rate
Fulton	Key.	67	95	bot.rot	42	6.1	0	2.9	4.5	4.0	3.9	3.8
Ithaca	Key.	67	90		50	6.2	0	3.7	4.4	4.2	3.9	3.7
Ithaca	Har.	67	95	small	48	6.3	0	3.5	3.4	3.5	3.7	3.5
Minetto	Key.	67	95	slime	35	5.7	0	3.4	4.4	4.3	3.5	3.4
Fulton	Key.	67	80	slime	43	6.2	0	3.9	4.4	4.0	3.9	3.3
Minilake	Sto.	67	95	slime	41	6.2	10	4.2	3.9	3.7	4.2	3.2
Ithaca	Asg.	67	90	slime	50	6.2	0	4.0	3.5	3.7	3.5	3.2
Fairton	Har.	67	95	slime	32	5.8	0	4.0	2.5	3.2	4.3	3.0
Fairton	Key.	67	80	soft,slime	43	6.3	0	3.7	3.5	2.7	4.0	2.7
Oswego	Key	67	85	slime,soft	45	6.4	23	3.9	4.0	3.9	3.9	2.4
Climax	Asg.	67	90		35	5.6	70	4.3	2.0	3.7	3.3	1.0

Notes: Seeded June 18, replicated 4 times, harvested at 3-day intervals.

Ithaca + Portage very good good
Fulton some more Bottom rot

LATE SEASON HEAD LETTUCE VARIETY TRIAL - 1976

	Variety	Source	Days to Harvest	% Mkble	Reason non-mkble	Av.Weight 18 heads (lbs)	Av.Diam. (inches)	% Tipburn	Bot.Rot	Firmness	Uniformity	Int.Stem length	Overall Rate
good	Ithaca	Har	69	100		52	6.4	0	3.8	4.1	4.2	4.0	4.0
good	Portage	Har	66	100		44	6.3	0	4.1	3.9	4.0	4.0	4.0
good	Fairton	Har	72	93		45	6.0	0	3.3	4.3	4.2	4.2	4.0
good	Oswego	Key	66	93	soft	40	6.3	0	3.7	3.9	4.1	4.1	4.0
good	Great Lakes	Asg	69	93		45	6.2	0	3.8	3.8	4.0	3.8	3.9
good	Ithaca	Key	65	93	soft	39	6.1	0	3.3	3.3	4.0	4.1	3.7
good	Mesa 659	Key	69	100		43	6.1	7	4.0	3.5	3.8	4.0	3.6
good	XP812	Agw	66	90	bot.rot	45	6.3	0	3.5	4.1	4.0	3.9	3.6
good	Fulton	Asg	66	90	soft,bot.rot	40	6.3	0	3.0	3.9	3.9	4.0	3.5
bight	Minetto	F.M.	66	93	soft,bot.rot	35	6.2	0	3.8	3.6	3.7	3.7	3.5
	XP815	Agw	69	97	soft	55	6.8	0	3.9	3.3	3.8	2.9	3.5
	Ithaca	Asg	66	90	soft,bot.rot	41	6.1	0	3.8	3.1	3.9	3.8	3.4
	E4217	F.M.	66	90	soft	43	6.3	0	3.9	3.4	3.7	3.7	3.4
light	Minetto	Key	66	87	bot. rot	35	6.2	0	3.1	3.9	4.2	3.8	3.3
	XP 811	Agw	69	90	soft	45	6.5	0	4.1	3.0	4.0	3.1	3.3
	GL R200-95	Key	71	93	soft	46	6.2	13	4.0	3.5	3.6	3.7	3.2
	Fulton	Key	68	83	soft,slime,rot	40	6.2	0	2.5	4.1	3.9	4.0	3.1
	Fairton	Key	69	97	soft	40	6.2	20	3.7	4.0	4.2	4.1	3.0
	Minilake	Sto	66	90	slime,bot.rot	41	6.4	7	3.6	3.8	3.8	3.8	3.0
	Oasis	Asg	72	75	soft,slime	43	6.3	0	3.8	3.5	3.6	4.1	3.0
	Empire	Key	71	87	soft	44	6.5	20	3.9	3.3	3.3	3.8	2.3
	Monterey	Key	73	100		43	6.6	20	3.9	3.4	3.5	2.0	2.2
	GL 118	Key	72	77	soft	43	6.1	20	4.0	3.2	3.6	3.4	2.1
	Forty-niner	Asg	74	65	soft,slime	40	6.7	40	3.5	3.0	3.7	3.0	1.0
	Climax	Asg	74	74	soft,slime,t.burn	49	7.0	100	3.4	3.2	3.9	1.7	1.0
	Dic Verde	Key	71	30	slime	42	6.4	50	3.2	3.4	3.9	3.8	1.0
	Bellaverde	Key	71	85	slime,soft	50	6.1	60	3.9	3.7	3.7	3.5	1.0
	E4226	F.M.	74	70	slime,soft	40	6.5	80	3.7	2.5	3.7	1.2	1.0
	E4224	F.M.	73	56	b.rot,soft,slime	39	6.1	73	3.8	2.9	3.3	2.1	1.0

Notes: Seeded July 2 in single rows rep. 4 times. Overall rate: Averate of the last 4 columns and taking into consideration % mkb, presence of slime, whether wt.of 18 hds. is below 38 lbs. and % of tipburn.

ONION VARIETY STORAGE TRIAL 1975 - 1976

No MH30 3 replications
judged June 29.

Variety	Source	% Weight into Storage	% Total Weight June 29/76	% Weight Mkble soft	% Weight firm onions	% Total mkble weight	% Weight sprouts	% Weight Rot
Storage King	Sto	100	93	61	21	82	11	0
Exporter	Sto	100	94	51	24	75	19	0
Sunburst	Asg	100	93	50	21	71	22	0
Spartan Era	Sto	100	91	44	25	69	22	0
Rocket	Asg	100	93	45	24	69	24	0
Fawn Preview	F.M.	100	93	39	27	66	27	0
Nutmeg	Har	100	90	46	19	65	25	0
Trapp's #8	Trp	100	92	51	13	64	28	0
Gladiator	Key	100	90	53	11	64	26	0
Mustang	Har	100	91	43	18	61	30	0
Buccaneer	Har	100	93	34	24	58	35	0
Canada Maple	Sto	100	84	37	19	56	28	0
Trapp's #6	Trp	100	85	43	12	55	30	0
Ontario L	Asg	100	83	42	11	53	30	0
Autumn Spice	Sto	100	91	36	10	46	45	0
Prospector	Agw	100	90	45	0	45	45	0
Garnet	Asg	100	92	29	8	37	53	0
Mucker	Des	100	92	21	11	32	60	0
Simcoe	Des	100	88	22	8	30	58	0
Pronto S	Asg	100	87	22	0	22	65	0

weight loss ← → 93 average 10%

Note: These varieties were stored in a dry, common storage until April 1976, then moved to a refrigerated storage. No MH-30 was used before harvest and no sprout inhibitor during storage.

The temperature was kept as close as possible to 0°C. On June 29,1976, they were judged for loss of weight, firmness, sprouting and % marketable.

34 C.V.S.

Ln 363

up to 110 = Early
up to 115 = medium late
over 115 = late

SUMMARY OF ONION VARIETIES 1969 - 1976

LTA Long Term Averages of some of the available onion varieties tested in our trials.

Variety	Source	# Years	Yield B/A LTA 1969-75	Yield B/A 1976	Days to Maturity LTA 1969-75	Days to Maturity 1976	Firmness LTA 1969-75	Firmness 1976
Mucker	Des.	2	1135	812	110 E	112		4-
Gladiator	Key.	7	1129	818	116 L	123	4-	4
XP 45	Asg.	2	1126	511	106 E	112	4-	4-
Summit	Har.	3	1114	-	122 L	-	3+	
Spartan Era	Key.	5	1068	607	117 L	116	4	4
Bronze Age	F.M.	3	1067	724	119 L	126	3+	3+
Northern Oak	Sto.	6	1042	648	118 L	130	4-	4-
Exporter	Sto.	7	995	692	114	118	3+	4-
Trapp #8	Trp.	4	965	668	111	116	4	4
Ontario L	Asg.	5	961	-	112	-	4-	
Storage King	Sto.	3	948	672	114	112	4-	4-
Golden Laker	F.M.	4	937	-	113	-	4	
Garnet	Asg.	6	931	672	108	112	3+	4-
Trapp #6	Trp.	6	929	657	110 E	111	4	4-
Mustang	Har.	7	928	624	108	119	4	4-
Nutmeg	Har.	5	928	730	109 E	115	4	4+
Canada Maple	Sto.	7	924	707	112	123	4+	4+
Rocket	Asg.	7	916	742	107 E	114	4-	4-
Copper Cache	F.M.	3	880	641	111	115	4	3+
Fawn Preview	F.M.	4	876	680	109 E	114	4	4
Buccaneer	Har.	7	875	523	109 E	110	4	4+
Muck Master	Twi.	3	868	-	109 E	-	4+	
Paydirt	N.K.	3	847	-	121 L	-	4+	
Ace Globe	Twi.	2	839	-	109 E	-	4	
Pronto S	Asg.	3	824	620	106 E	109	3	3
XP 75	Asg.	4	818	564	106 E	112	4-	4-
Harvestmore	Har.	2	792	610	117 L	123	3+	4-
Sunburst	Asg.	6	788	595	111	117	4	4
Imp. Autumn Spice	Sto.	5	760	446	109 E	121	4	4
Simcoe	Des.	2	745	554	101 E	109	4+	4-
Autumn Spice	Asg.	7	727	611	106 E	109	4+	4+
Canada Granite	Sto.	3	717	621	116 L	129	4	4
Autumn Bronze	F.M.	2	713	-	115	-	4	
Super Spice	Sto.	3	678	523	105 E	109	4	4

very high

high yield

med

fair

THIN STAND
LATE MATURING
DOUBLES
LOW YIELD

In order of days

ONION MAIN VARIETY TRIAL - 1976

Variety	Source	Days to Maturity	Stand/foot	Yld.No.1 lge. Bags/Acre	Yld.No.1 sml. Bags/Acre	Yld. Culls Bags/Acre	% mkb.No.1 lge.by wt.	% No.1 over 2" by wt.	Av.bulb wt. No.1 lge(gms)	Shape	Firmness	Uniformity Size	Uniformity Shape	Color	Skin Thickness	Skinning	Neck Finish	Score	Type of Culls
Pronto S	Asg.	109	5	620	36	92	83	75	113	G	2.9	3.4	3.4	3.1	2.8	2.6	3.3	3.04	D.U.
Simcoe	Des.	109	5	554	50	22	88	71	94	G	3.8	3.4	3.9	3.6	3.4	3.4	4.1	3.68	D.U.
Super Spice	Sto.	109	5	523	42	65	83	71	102	G	3.9	3.9	4.0	3.9	3.7	3.7	4.0	3.86	D.S.
Aut. Spice	F.M.	109	6	611	48	56	85	48	93	G	4.2	3.8	3.9	3.9	3.9	3.7	3.8	3.84	D.S.
Buccaneer	Har.	110	5	523	42	50	85	76	103	G	4.2	3.8	4.0	3.9	3.8	3.4	3.7	3.76	D.
Trapp's #6	Trp.	111	6	657	31	33	91	82	103	G	3.7	3.7	4.1	3.8	3.9	3.7	3.9	3.88	D.
Storage King	Sto.	112	5	672	25	65	88	82	115	G	3.6	3.9	3.9	3.6	3.8	3.4	3.4	3.62	D.
Mucker	Des.	112	6	812	27	38	93	87	122	HG	3.6	3.7	3.6	3.1	3.4	3.1	3.8	3.40	D.
Garnet	Asg.	112	6	672	27	108	83	73	98	G	3.7	3.8	4.0	3.9	3.6	3.9	4.2	3.92	D.W.
Fawn Preview	F.M.	114	5	680	26	26	93	86	119	G	3.9	4.0	3.9	3.8	3.9	3.9	3.9	3.88	D.S.R.
Rocket	Asg.	114	7	742	59	60	86	77	110	HG-G	3.7	4.2	4.1	3.5	3.2	3.3	4.0	3.62	D.Rd.
Copper Cache	F.M.	115	5	641	42	50	87	81	114	G	3.4	3.8	3.9	3.5	3.7	3.8	3.8	3.74	D.
Nutmeg	Har.	115	6	730	42	23	92	84	101	G	4.2	4.0	4.0	4.0	3.9	3.9	4.2	4.00	D.
Trapp's #8	Trp.	116	5	668	15	26	94	90	124	G	4.1	4.1	4.2	4.1	3.9	3.8	3.8	3.96	D.
Spartan Era	Key.	116	5	607	17	108	83	77	118	G	3.9	3.5	3.6	3.7	3.6	3.3	3.8	3.60	D.
Sunburst	Asg.	117	6	595	27	161	76	72	101	G	4.1	3.7	3.9	3.3	3.8	3.8	4.1	3.78	D.
Exporter	Sto.	118	5	692	19	115	84	80	124	G	3.7	3.7	3.3	3.7	3.5	3.6	3.8	3.58	D.S.
Mustang	Har.	119	5	624	31	63	87	83	121	G	3.7	4.0	4.0	4.2	4.2	3.9	3.8	4.02	D.
Canada Maple	Sto.	123	5	707	23	85	87	75	114	G	4.2	4.0	4.2	3.9	4.1	3.9	4.0	4.02	D.S.U.
Gladiator	Key.	123	6	818	31	65	89	83	121	G	3.9	3.9	3.3	3.3	3.4	3.9	3.5	3.48	D.

NOTE: These 20 varieties were seeded April 30 in plots of 3 rows, replicated 4 times. The overall yield is down due to a thin stand resulting in more doubles. Highest yield was produced by Gladiator, Mucker, Rocket and Canada Maple. Highest scores were received by Mustang, Canada Maple, Nutmeg, Trapp's #8, Garnet, Trapp's #6, Super Spice and Autumn Spice.

Main Type of Culls: D = Doubles S = Sprouts Rd = Red
U = Undersize W = White R = Rot

skip 2 reps

deduct 10 days due to late season

thin stand

ONION ADAPTATION TRIAL - 1976

Variety	Source	Days to Maturity	Yld.#1.lge. Bags/acre	Yld.#1.sml. Bags/acre	Culls Bags/acre	% #1 lge.	Av.wt.#1 lge.gms.	Stand/ft.	Shape	Firmness	Uniformity: Size	Uniformity: Shape	Color	Skin Thickness	Skinning	Neck Finish	Score	Type Culls
Topaz	Asg.	121	686	46	122	80	98	7	G	4	3+	4	4-	4-	3	4-	3.62	D
Ontario M	Asg.	121	682	65	206	72	113	7	G	3+	4-	4-	4-	4-	3+	4-	3.58	D
XP 25	Asg.	126	728	8	156	82	132	4	HG	4-	4	4-	4-	4	4	3+	3.77	D
XP 45	Asg.	112	389	34	83	76	100	4	G	4-	4-	4	3+	4-	4-	4	3.72	D
XP 37	Asg.		282	0	442	39	70	3	HG	3+	3	4-	3-	3+	4	4	3.42	DS
XP 75	Asg.	112	564	19	58	88	113	5	G	4-	4-	4	4	4	4-	4	3.87	D
XP 28	Asg.	123	438	4	206	68	126	4	G	3	4-	4-	4-	4-	4-	4-	3.60	D
XP 209	Asg.	126	346	0	176	66	199	2	HG	3	3+	4-	4-	4-	4	3	3.48	DS
XP 210	Asg.	126	351	7	282	55	124	4	G	4	4-	4	4-	3+	4	4	3.77	D
XP 227	Asg.	126	778	0	351	69	156	5	G	3-	4	3+	3	4-	4	3-	3.34	DS
XP 264	Asg.	126	496	0	206	71	154	4	OG	2+	4-	3	2	3+	3	2+	2.80	DRS
XP 418	Asg.	126	793	0	129	86	151	5	HG	3+	4	4	4-	3+	4-	4	3.71	DRS
XP 424	Asg.	122	453	0	183	71	161	3	G	2+	3	4-	3	3	4-	3-	3.05	DS
XP 428	Asg.	126	316	0	69	82	168	2	HG	2+	3+	4-	3	3	3+	2	2.94	DSR
XP 644	Asg.	126	706	7	240	74	131	6	HG	3-	3-	3-	3-	3	4	3-	2.92	DSR
Spartan Banner	Key.	126	793	7	233	77	148	5	HG	4-	4	4-	4-	4-	4	3+	3.72	DS
Spartan Bounty	Key.	126	564	23	244	68	120	6	G	4	4	4-	3+	4	4	4	3.85	DS
Autumn Spleandour	Key.	117	541	46	156	73	101	6	G	4	3+	4-	4-	4	4-	4-	3.72	DU
Gladiator	Key.	122	588	11	133	80	137	4	HG	4-	3+	3	4-	3+	3+	4-	3.42	DS
Spartan Era	Key.	123	575	11	206	73	143	4	G	4	4	4-	4	4-	4-	4-	3.78	D
Early Globe Yell.	Key.	120	351	4	133	72	124	3	G	4	4	4-	4	4	4-	4	3.91	DSRd
Festival	F.M.	119	519	18	80	84	96	5	GO	4-	4-	3+	4-	4	4-	4	3.72	D
Bronze Age	F.M.	122	724	30	156	80	135	6	G	3+	3+	4-	4-	4-	4	3+	3.57	D
Golden Passport	F.M.	115	610	49	46	87	99	6	G	4	4-	4	4	4-	4	4	3.91	D

ONION ADAPTATION TRIAL - 1976

Variety	Source	Days to Maturity	Yld.#1.lge. Bags/acre	Yld.#1.sml. Bags/acre	Culls Bags/acre	% #1 lge.	Av.wt.#1 lge.gms.	Stand/ft.	Shape	Firmness	Uniformity Size	Uniformity Shape	Color	Skin Thickness	Skinning	Neck Finish	Score	Type Culls
Prime Beauty	F.M.	126	529	15	164	75	113	5	G	4-	4-	4	4-	4	3+	4	3.77	D
Explorer 2	F.M.	126	900	19	42	94	134	6	HG	4	4-	3+	4-	4	3+	4-	3.67	DS
Explorer 6	F.M.	122	442	7	92	82	113	4	HG	4-	4-	4-	4-	4	4-	3+	3.68	D
X15SG	F.M.	126	133	4	31	79	199	1	G	3-	4	4	4	4	4	4-	3.77	D
X20 SG	F.M.	126	526	0	160	77	196	3	HG	2+	3	3	3+	3	4	2+	2.98	DR
X21 SG	F.M.	122	537	4	8	98	160	3	HG	3	4	4	4	4	4	3	3.71	UR
X23 SG	F.M.	122	816	7	46	94	121	6	G	3+	4-	4-	4-	4-	4	4-	3.68	D
X39 SG	F.M.	122	819	31	106	86	124	6	G	3	4	4	4	4	4-	3-	3.62	DU
X42 SG	F.M.	122	892	15	49	93	130	6	G	4-	4	4	4	4	4	4-	3.91	DSU
X43 SG	F.M.	126	541	0	46	92	149	3	HG	3+	4	3+	4-	3+	4	3	3.51	DS
X15 W	F.M.	126	473	0	236	67	153	3	HG	3	4-	4-	4-	4	3+	3	3.48	DS
X15 M	F.M.	122	934	0	122	88	126	6	HG	3+	3+	3+	4-	4	4	4-	3.61	DS
X21 W	F.M.	112	648	11	42	92	124	5	G	4	4-	4	4	4	3	4-	3.77	DU
X23 W	F.M.	109	625	7	80	88	122	5	G	4	4-	4	4-	4	4-	3	3.72	DS
X25 M	F.M.	126	694	8	137	83	140	5	HG	3	4-	4-	4-	4	4-	3	3.54	D
X26 M	F.M.	126	610	0	160	79	175	3	HG	3-	4	4-	3	3	4-	2+	3.20	SU
X39 W	F.M.	119	869	19	107	87	138	6	G	3	4-	3+	3+	4-	4-	4-	3.48	D
X44 SG	F.M.	122	1041	4	68	94	136	6	HG	4-	3+	4-	4-	4	4-	4	3.72	DS
X45 SG	F.M.	122	682	0	84	89	141	4	G	4	4-	4-	4	4	4-	4-	3.82	D
X53 SG	F.M.	122	930	19	88	90	117	7	HG	4	3+	4-	4	4-	4-	4+	3.81	D
X55 SG	F.M.	122	930	8	53	94	126	6	HG	3+	3+	3	3+	3+	3	4-	3.27	DR
Spartan Bounty	Har.	126	549	11	191	73	132	5	HG	4	3+	3	4-	4	4	3+	3.57	D
1646 Early Shipper	Har.	126	641	0	305	68	177	4	G	3-	4	3	3	3+	3+	3	3.18	DS
1599 America	Har.	115	400	11	225	63	110	4	G	4-	3+	3+	4-	4-	4-	4-	3.58	DRd.
1426	Har.	119	488	11	221	68	145	4	G	4-	4-	4-	3+	4	3	3+	3.52	D
1956	Har.	116	808	8	148	84	137	5	G	4-	3+	3+	3+	3+	3+	4	3.45	DRd
5556	Har.	109	709	4	137	83	123	5	G	4	4-	4	4	4	3+	3+	3.75	D
5551	Har.	126	648	7	153	80	121	5	G	4+	3+	4-	3+	4	4	4-	3.71	DW
5519	Har.	122	747	0	107	87	126	5	G	4	4-	4-	4	4	4-	4-	3.82	DR
144-356	Har.	126	606	4	137	81	196	3	HG	3	4	4	3+	4	3+	3	3.51	D

ONION ADAPTATION TRIAL - 1976

Variety	Source	Days to Maturity	Yld.#1.lge. Bags/acre	Yld.#1.sml. Bags/acre	Culls Bags/acre	% #1 lge.	Av.wt.#1 lge.gms.	Stand/ft.	Shape	Firmness	Uniformity: Size	Uniformity: Shape	Color	Skin Thickness	Skinning	Neck Finish	Score	Type Culls
195-155	Har.	119	709	8	15	97	129	5	G	4	3+	3+	4	4	4	4-	3.75	U
1643 Cima	Har.	124	850	4	240	78	176	5	HG	3+	4	4-	3+	4-	4-	3	3.52	SD
Harvestmore	Har.	122	610	23	122	81	116	5	G	4-	4	4-	3+	4-	4	3+	3.67	DS
Spartan Era	Sto.	122	389	7	168	69	111	4	G	4	4	4	4-	4	4-	3+	3.81	DS
Indian Queen	Sto.	126	476	31	320	58	118	6	G	4-	4-	4-	4-	4	4-	3+	3.68	DUS
Imp.Aut. Spice	Sto.	114	446	15	175	70	111	5	G	4	3+	4-	4-	4-	4-	4-	3.68	D
Autumn Spice	Sto.	114	656	19	106	84	98	6	G	4	4-	4-	4-	4	4-	4	3.82	DU
Super Elite	Sto.	122	621	19	148	79	145	5	HG	3+	4-	4	3+	3	3+	3+	3.41	DS
Northern Oak	Sto.	121	648	53	275	66	103	8	G	4-	3+	3+	3+	3+	4-	3+	3.41	DRdS
Canada Granite	Sto.	121	621	65	87	80	93	8	G	4	3+	4-	3	3+	4-	4	3.57	UD
Hickory	Sto.	119	519	46	106	77	99	6	G	4	4-	4-	3+	4-	4	4	3.77	DU
Nugget	Sto.	125	461	8	87	83	114	4	G	4	4-	4-	4-	4-	4	4	3.82	DS
Early Yell.Globe	Sto.	112	583	58	224	67	89	8	G	4	4-	4-	4-	3	3+	4	3.62	DRd
Produre	D.P.	Maturing too late. 95% thick necks.																
Produskin	D.P.	Maturing too late. 85% thick necks.																
Producent	D.P.	Maturing too late. 35% thick necks.																
Nr. 304	D.P.	Maturing too late. 100% thick necks.																
54.25	D.P.	100	49	87	153	17	74	8	GO	2	3	4-	1	1	3	4+	2.57	USD
Gambler	Agw.	126	1227	16	53	95	134	8	HG	4-	4+	3+	3+	4	4	3	3.65	
XP-74-161	Agw.	Maturing too late. 70% thick necks.																
PGR-1220	PGR	126	385	37	290	54	106	6	F	4-	4	4	3	3+	4-	3	3.52	
PGR-1221	PGR	Maturing too late. 100% thick necks. Red doubles.																
PGR-1222	PGR	Maturing too late. 50% thick necks.																
PGR-1223	PGR	Maturing too late. 20% thick necks.																
Leather Jacket	V.D.B.	Maturing too late. 75% thick necks.																
Compass	V.D.B.	Maturing too late. 85% thick necks.																
Fortuna	V.D.B.	Maturing too late. 40% thick necks.																
Hyb. Matador	Nia.	121	785	7	153	83	136	6	HG	4-	4-	3+	3+	4	3+	4-	3.57	DS
Aut. Spice "A"	Cro.	109	587	23	38	91	99	5	G	4	4-	4	4-	3+	3+	4	3.71	D
H 149	Cro.	126	763	0	175	81	167	4	G	4	4-	4-	4	4+	4-	4-	3.82	DS

ONION ADAPTATION TRIAL - 1976

Variety	Source	Days to Maturity	Yld.#1.lge. Bags/acre	Yld.#1.sml. Bags/acre	Culls Bags/acre	% #1 lge.	Av.wt.#1 lge.gms.	Stand/ft.	Shape	Firmness	Uniformity: Size	Uniformity: Shape	Color	Skin Thickness	Skinning	Neck Finish	Score	Type Culls
H. 51	Cro.	119	678	15	92	86	112	6	G	4	4	4-	4	4	4	4-	3.91	DS
H. 189	Cro.	126	541	4	19	96	175	3	G	4-	4	4	4	4	4	3+	3.85	D
H. 147	Cro.	126	511	4	102	83	181	3	HG	4-	4	4-	4	4	4	3+	3.81	D
H. 207	Cro.	Poor stand. No yield.																
H. 251	Cro.	126	370	4	251	59	131	3	HG	4	3	4-	3+	3	4	3+	3.47	D
Wijbo	S.Gr.	Maturing too late. 75% thick necks.																
Jumbo	S.Gr.	Maturing too late. 95% thick necks.																
Hysol	S.Gr.	119	194	57	236	40	72	6	G	3	4	4		4	4-	4-		DU
Superba	S.Gr.	121	396	15	92	79	92	4	G	4	3+	4-	4-	4	4-	4-	3.68	D
PWX 3274	P.W.	126	583	11	331	63	111	6	G	3	4-	4	3	4	4	3+	3.57	D
PWX 2174	P.W.	126	629	11	8	97	120	5	G	3-	4	4-	2+	3	4	3	3.24	DU
PWX 2474	P.W.	123	575	4	8	98	104	4	G	4	4-	4-	4-	4-	4-	4-	3.74	D
Spartan Sleeper	Trp.	126	880	61	61	88	124	7	HG	3+	3	3-	4-	4	4	4	3.52	SD
Fusario	W.S.U.	126	656	7	34	94	125	5	G	4+	4	4	4	4	4-	4	4.00	UD
Capable	Des.	122	595	34	129	78	130	5	G	3+	3+	3+	3	3	4-	3	3.22	DR
Dexp. 2749	Des.	116	846	16	76	90	124	6	HG	3	4	3	3	3	4-	3	3.24	D
NCX 1008	Nia.	120	949	11	168	84	168	5	HG	4-	4	4	4-	4	4	4-	3.87	DS
Sunburst	Asg.	116	869	7	397	68	118	8	G	4	4-	4	3+	4	4	4	3.85	DW
XP 70	Asg.	119	758	4	541	58	157	6	G	4	4-	4	3+	4	4	4-	3.81	D

NOTES: The weather at harvest time was not very conducive for the maturing of onions. Almost all cultivars had a thin stand reducing the chances for a good yield and quality onion even further. All cultivars matured later than in other years.

Key: HG = high globe; O = oblong; F = flat.

Culls: D = doubles R = rot
S = sprouts Rd = red
U = undersize W = white
The order of the cull markings indicates the majority of types of culls.

All named varieties were replicated twice, most numbered cultivars only once.

POTATO MAIN VARIETY TRIAL - 1976

Variety	Marketable Bushels/Acre	Mkb B/A 2¼-3½	Mkb B/A 1¾-2¼	% Culls	Reason Culls: Small	Green	Growth Cracks	Off-Shape	Shape	Color	Eye Depth	Remarks
Ontario	469	444	25	10	*				FO	W	M	Very good color
Alamo	677	637	40	11	***	**			OF	W	S	Very good skin color
Norchip	672	645	27	13	**	**		**	RF	OW	M	Medium to late
Abnaki	755	745	10	9	***	**			RF	OW	S	Attractive, smooth
Onaway	492	447	45	15	*	*			RF	OW	D	Mid-season, slightly rough
G6880-1	670	616	54	6	***	**			RF	OW	M	
G6549-7 Trent	564	543	21	13					RF	OW	S	Some light netting
Superior	540	513	27	18	**	**			RF	OW	D	Mid-season, fairly smooth
G6442-2	406	352	54	9					RF	OW	M	Very light netting
York	310	283	27	13	**	**		*	RF	OW	S	
F69118	237	192	45	10	**				RF	LN	S	
F61025 Tobique	67	55	12	30	*	*			OF	LN	S	Pink eyes, very poor stand
Chieftain	751	718	33	9	**	*			RF	DR	M	Smooth, very uniform
G6457-5R Rideau	569	550	19	10	***	*		*	RF	DR	S	
Bison	355	319	36	11	***	*	*		R	DR	S	
Norland	539	494	45	9	*				RF	R	S	
Purple Viking	517	508	9	41	**		***	*	RF	P	M	
Norgold	439	418	21	14	**			*	OR	RU	S	

In other trials much hollow heart

NOTE: On May 26, 12 white skinned varieties, 4 red skinned, one purple and one russet skinned variety were planted in rows of 30 ft. long, 34-inches apart and 10-inches spacing in the row, replicated three times. Harvest date 7th October.

Key: Color: OW = off white
DR = deep red
P = purple
LN = light net
RU = russet

Eye Depth: D = deep
M = medium
S = shallow

Shape: R = round
O = oblong
F = flat

Highest Marketable Yield: (2¼ - 3½")

Abnaki	745	Alamo	637
Chieftain	718	G6880-1	616
Norchip	645		

1976 CELERY STORAGE EXPERIMENT

Treatment	Total # Stalks	Total Wt. lbs.	Mkb.# Stalks	Mkb. Wt. lbs.	% Trim Loss	Reason for Loss: Leaves % Rot	Reason for Loss: Stems % Rot	Reason for Loss: Stems % Discolored	Mkb. Color: Leaves	Mkb. Color: Stalks
Benlate Spray 1 lb/100 gall.water	100	213	100	127	40	97	10	90	4.1	4.2
Easout Spray 1½ lb/100 gall.water	100	203	100	130	36	93	12	88	3.9	3.9
Benlate Spray & Dip 1 lb/100 gall.water	100	220	100	140	36	93	12	88	4.2	4.4
Easout Spray & Dip 1½/100 gall.water	100	208	95	146	26	100	13	87	4.4	4.7
Check	100	216	99	97	55	92	37	63	3.7	3.3

Notes: Marketable Color of Leaves and Stalks 5 = very desirable
1 = least desirable.

Treatments: On October 4, before harvest, 3 varieties of celery were sprayed with a regular boom sprayer at a rate of 100 galls. water per acre at a nozzle pressure of 100 P.S.I. One part of the plot was sprayed with Benlate at 1 lb/100 gall. and a second part with Easout at 1½ lb/100 gall. water.

After harvest on October 5 part of the Benlate sprayed celery was dipped in a solution of 1 lb. Benlate in 100 galls. water and the same was done with part of the Easout sprayed celery at 1½ lbs. Easout in 100 galls. water.

The treated celery and a non-treated check were then stored in a cold storage 0° to 2°C.

On December 22 the celery was judged for weight loss, trim loss and quality. Best results were obtained from the dip treatments, ave. 31% weight loss. Spray treatment gave an average 38% loss of weight and the check had a 55% loss. While 37% of the discarded stems were rotten in the check, the rot in the treated plots was only about 12% and 88% of the stem loss was due to loss of green color.

The color of the marketable celery after trimming was better in the treated lots than in the check.

In general Easout did slightly better than Benlate.

There was very little difference between the 3 varieties used, Utah 52-70, Clean Cut, and Florida 683.

PARSNIP SPACING TRIAL - 1976

One of the main problems in the production of parsnips, is to obtain a uniform plant population. Parsnip seed does not lend itself very well to conventional seeders. Precision seeding would greatly improve this and several companies are putting in a concerted effort to come up with pelleted parsnip seed. This trial was done to find out what the ideal plant population would be if it was possible to seed to a uniform stand. A previous experiment showed that yields continued to increase beyond a plant population of 6 per foot. Raw and coated seed of two seed sources were seeded with a band seeder to obtain five densities: 4, 8, 12, 16 and 20 seeds/foot. Rows were 22½ inches apart. cv Harris Model was used in this replicated trial. The percentage of seeds emerging varied considerably. The raw seed showed best emergence with 69%, whereas the coated seed (source "A") showed 58% emergence and coated seed (source "B") showed only 20% emergence. Raw seed seedlings were in the two-true leaf stage on June 8, whereas the coated seed seedlings showed only one-true leaf. All treatments were thinned out to obtain a wide range of plant densities from 1 to 12 plants per foot of row. Stand was reduced during the growing season through natural causes by a further 30%. Best marketable yield (809 bu/acre) was obtained with a final plant population of 7.0 to 7.4 plants/foot. This was accomplished by aiming at a plant stand of 8 to 9 plants/foot at time of emergence. For this plant density to be realized, the grower would have to adjust the seeder to obtain 10 - 14 seeds per foot depending on germination.

INFLUENCE OF UNIFORM PLANT POPULATION ON YIELD OF PARSNIPS

Thinned to uniform stand/ft	Average mkble roots/ft	Ave. bus/acre
12	8.8	736
10	7.7	748
9.7	7.2	809
8	6.4	790
6.6	4.5	587
5	3.7	646
3.8	2.9	608
2.3	1.8	412
2.3	1.6	285

POTATO SPACING STUDY - 1976

A study was initiated to determine the effect of plant spacing on two popular varieties, Norchip and Chieftain, on muck soils.

Five different spacings, 6", 10", 14", 18" and 22" were used between the plants in the row. The rows were spaced 34" apart.

Previous experimental work on minderal scils indicated that Norchip was not affected by a wide variety of plant spacings. The results of this experiment confirmed our data from a 1975 experiment that, on muck soil, the yield is decreased as the plant spacing is increased. The Chieftain variety reacted in a similar manner. The average tuber weight increased with wider spacings. The number of oversized tubers increased slightly as the spacing increased except at the 22" spacing.

As the spacing was increas d by 366%, the tubers per hill increased by 236% for Norchip and 263% for Chieftain. The number of marketable tubers per hill alsc more than doubled as the spacings increased.

	Norchip			Chieftain		
Spacing	Mkb.Yld. B/A	Ave.Wt.Tuber Oz.	# Tubers /hill	Mkb.Yld. B/A	Ave.Wt.Tuber Oz.	# Tubers /hill
6"	682	3.7	5.2	719	4.8	4.4
10"	633	4.0	7.8	695	5.1	6.8
14"	627	4.3	10.0	702	5.3	9.1
18"	577	4.1	12.3	587	5.7	9.2
22"	551	5.1	11.7	583	5.5	11.6

RATES AND SOURCES OF NITROGEN ON ONIONS

Onions require a long growing season. Conditions encouraging rapid growth before the initiation of bulb formation is essential for maximum yield and quality. Nitrogen is one factor encouraging rapid growth. An experiment was designed to screen several sources of nitrogen, i.e, urea, ammonium nitrate, ammonium sulphate, ammonium phosphate, sodium nitrate and calcium nitrate, at rates: 0, 60, 120 and 180 lbs N/acre. The ~~same~~ these 6 sources of nitrogen were used for sidedressing at 40 lbs N/acre applied at the time the plants were in the two-true leaf stage.

as follows
Urea + Urea
Urea + Am Nit
Urea + Am S
Urea + Am Ph
Urea + $NaNO_3$
Urea + Ca N.

Preliminary results, comparing sources and sidedressings with the same source of nitrogen, show that ammonium nitrate produced the best yield, at the 0 and 60 lb. rate. It also appears that ammonium phosphate and ammonium sulphate at the highest rate depressed yield.

Ammonium sulphate and ammonium phosphate at the highest rate had a reduced plant population of 20% or over.

Further studies will be necessary before any definite conclusions can be made.

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