

# VEGETABLE

## VARIETY TRIALS

1981

### PRELIMINARY RESULTS

BROCCOLI

CAULIFLOWER

CHINESE CABBAGE

CUCUMBER

MELON

ONION

RADISH

RED CABBAGE

SAVOY CABBAGE

SWEET CORN

TOMATO

WHITE CABBAGE

Department of Vegetable Crops  
Agricultural University of Norway  
P.O. Box 22, N-1432 ÅS-NLH, Norway

January 1982

Mimeograph No. 135

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Editors: Trevor Remedios and Toril Sagen

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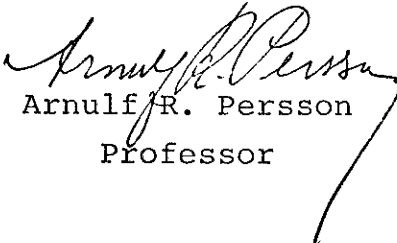
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## INTRODUCTION

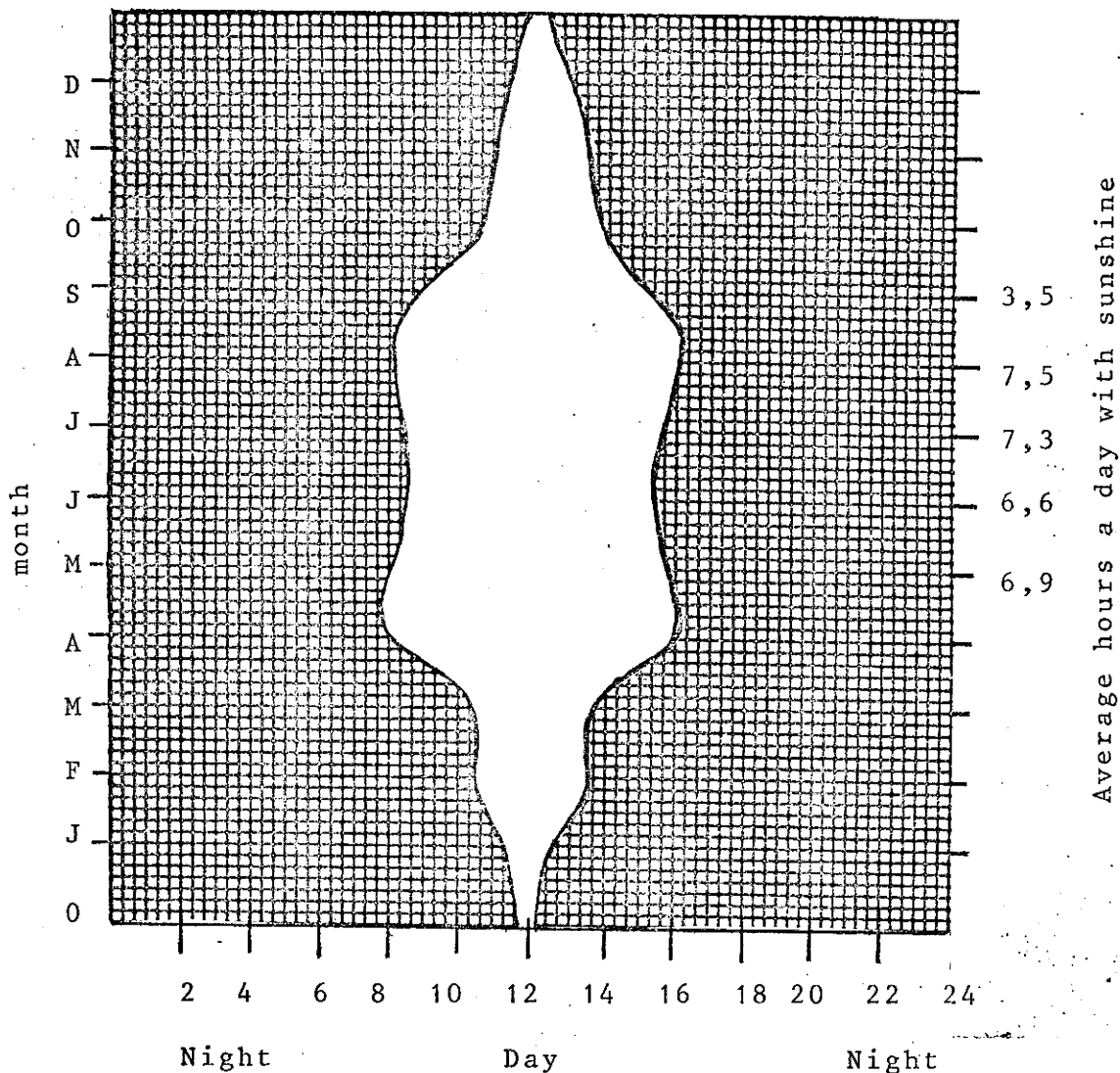
A part of the routine work carried out at the research farm of the Department of Vegetable Crops, Agricultural University of Norway, is the testing of new varieties under Norwegian conditions, and the introduction of new kinds of vegetables. This publication deals with the results of variety trials performed in 1981.

We wish to thank the many seed firms who have been very generous in supplying us with samples for our trials here at Ås. In some cases, the firm named may not be the primary seed producer, but the retail agent.

Ås, Norway  
January, 1982

  
Arnulf R. Persson  
Professor

The graph shows the average number of sunshine hours during the year at Ås - 60°N



WEATHER DATA FOR ÅS FROM MAY-SEPTEMBER 1981

	Month	1981	1980	30 years average (1931-60)
Rainfall (mm)	May	40,6	59,7	49
	June	102,8	136,6	70
	July	121,2	47,4	79
	August	8,5	75,2	96
	September	69,7	75,3	86
Sunshine hours	May	212,8	280,5	240,6
	June	197,0	213,7	304,6
	July	123,5	256,3	269,5
	August	232,0	176,5	258,9
	September	104,5	116,7	155,3
Average temp. °C	May	11,6	11,7	10,2
	June	12,6	15,7	14,4
	July	15,7	16,2	16,8
	August	14,6	14,8	15,6
	September	12,1	11,7	10,9

SEED SUPPLIERS (RADISH, BROCCOLI, CAULIFLOWER, SWEET CORN,  
TOMATO, MELON, CUCUMBER)

ARZ A.R. Zwaan & Zoon b.v., Postbox 992, NL-2270 AZ Voorburg,  
Nederland.

ASG Asgrow International Corp., Subsidiary of the Upjohn Comp.,  
Kalamazoo, Michigan 49001, USA.

ASM Asmer Seeds Ltd., Asmer House, Ash Street, Leichesten,  
LE 5 ODD, England.

BALL Geo. J. Ball, Inc., West Chicago, Illinois 60185, USA.

BOE A.A. Boe, Dept. Plant & Soil Sciences, Univ. of Idaho,  
Moscow, Idaho 83843, USA.

BRU Bruinsma Selectiebedrijven B.V., P.O. Box 24, Naaldwijk,  
Nederland.

CS Charles Sharpe & Co., Ltd., Sleaford, Lincs, England.

DP D. van der Ploegs Elite Zaden B.V., Postbus 19, 2990 AA  
Barendrecht, Nederland.

ENZA De Enkhuizer Zaadhandel B.V., Postbus 7, Enkhuizen,  
Nederland.

HAR Joseph Harris Co., Inc., Moreton Farm, Rochester, N.Y.  
14624, USA.

LC L. Clause, S.A., 91220 Brétigny-sur-Orge, Frankrike.

LD A/S L. Dæhnfeldt Havefrø, Postbox 15, DK 5100 Odense,  
Danmark.

KEY Keystone Seeds Inc., P.O. Box 1438, Hollister, California  
95023, USA.

LOG Økern Torgvei 1, Oslo 5.

NK Northrup King & Co., P.O. Box 959, Minneapolis, Minnesota  
55440, USA.

NUN Nunhem's Zaden, P.O. Box 4005, NL-6080 AA Haelen, Nederland.

OEK J.E. Ohlsens Enke, Ny Munkegård, DK-2630 Tåstrup, Danmark.

PARK Geo. W. Park Seed Co., Inc. Greenwood, South Carolina  
29647, USA.

PS Petoseed Co., Inc., P.O. Box 4206, Saticoy, California  
93003, USA.

RB Rogers Brothers Seed Co., P.O. Box 1647, Idaho Falls,  
Idaho 83401, USA.

RS Royal Sluis, Postbus 22, 1600 AA Enkhuizen, Nederland.

RZ A.R. Zwaan et Zoon B.V. Prinses Mariannelaan 296, P.O. Box  
992, 2270 AZ Voorburg, Nederland.

SAK T. Sakata & Co., C.P.O. Box 11, 2, Kiribatake, Kanagawa-Ku,  
Yokohama, Japan 220-91.

S&G N.V. Koninlijke Zaadteelt en Zaadhandel, Sluis en Groot,  
Postbus 13, Enkhuizen, Nederland.

SPER Carl Sperling & Co., Postfach 2640, D-2120 Lüneburg,  
Vest-Tyskland (BRD).

STO Stokes Seeds Ltd., 39 James St., Box 10 St. Catharines,  
Ontario, L2R 6R6, Canada.

SUH Sveriges Utsädesförening, Hammenhögssavdelningen, S-270 50  
Hammenhög, Sverige.

SW Seedway, Inc., Hall, New York 14463, USA.

TA Takii & Co., Ltd., Seed Growers, P.O. Box 7, Kyoto  
Central, 180 Umekoji-Inokuma, Japan.

TERRA Van Waveren Pflanzenzucht, GMBH 3405 Rosdorf N, BRD

VDB Gebrüder van den Berg, N.V., Postbus 25, NL-2670 AA  
Naaldwijk, Nederland.

WW W. Weibull AB, Fack, S-261 20 Landskrona 1, Sverige.

Relative yield 100 = 1025 kg/dekare

Variety	Seed supplier	First harvest date	Harvest period (days)	Average weight of central head (g) class I	Average weight of side shoots (g)	Relative number of harvested heads	Relative yield	Comments
Green Hornet	STO	7/7	29	67.1	23.3	104	87	- Compact heads. Leaves around the head. Short stems. Fine compact side shoots with long stems.
Bravo	"	7/7	25	53.6	26.5	98	90	- Compact violet heads. Short stems. Good strong side shoots.
No. 2327	KEY	7/7	25	166.6	22.8	68	60	- Fine compact heads. Open growth.
No. 7631	"	9/7	23	81.1	28.5	95	92	- Well formed compact heads. Leaves around the heads. Short stems.
Futura	ASG	7/7	25	52.4	20.8	100	71	- Compact heads. Many leaves. Open growth.
Gem (reference var.)	"	7/7	25	86.8	24.3	100	100	- Compact violet heads. Long stems. Uneven maturing. Open growth. Long loose side shoots.
Coaster	RS	13/7	19	163.9	30.2	98	125	- Well formed heads. Compact side shoots with good stems.
Corvet	"	14/7	22	196.5	22.8	104	120	- Fine, large, compact heads. Good stems. High green colour.
Early no. 70	ASM	9/7	23	83.8	36.2	95	92	- Compact heads. Violet colour. Leaves around the head. Short stems. Good strong side shoots.
Surfer	RS	10/7	19	142.0	25.4	90	106	- Well formed compact heads. Good stems. Leaves around the head.

Replications 2

Transplanted in the fields June 4

Plant number: 30

Sown in peat blocks April 22

Plot size: 6 x 1.3 m = 7.8 m<sup>2</sup>

Between plants: 40 cm

HYBRID CABBAGE VARIETY TRIAL 1981

Variety	Seed supplier	Weight of 15 heads	Weight per head	Yield pr. daa in kg
Predena	Bejo	42.24	2.82	8660
Hinova	"	36.13	2.41	7410
Bartolo	LOG	37.40	2.49	7672
Histona	Bejo	64.01	4.27	13130
Hisepta	"	54.64	3.64	11209
Orion	RS	60.69	4.05	12449
Toten Amager Fodstad	OF	34.46	2.30	7069

Row spacing: 65 cm

Sown: April 27.

Between plants: 50 cm

Planted: May 27.

RED CABBAGE

Variety	Seed supplier	Average weight of each cabbage in kg	Yield kg/daa
Autoro	Bejo	2.26	8686
Kissendrup	LEUT	2.26	8692
Septemberrød	LOG	2.72	10455
Amager Hunderup	LOG	2.73	10500

Sown: April 22.

Between rows: 65 cm

Planted: June 1.

Between plants: 40 cm

Harvested: October 10.

Plant number: 36



SAVOY CABBAGE VARIETY TRIAL 1981

Variety	Seed supplier	Average weight of each head in kg	Yield kg/daa
Hamasa	Bejo	1.82	5275
Groenetto	ARZ	1.30	6000
Hiversa	Bejo	2.08	4423
Wivay	ARZ	1.30	5385
Vertus Verius	LD	1.56	8462
Tarvoy	ARZ	2.34	5384
Winterköning	RS	2.34	5812

Sown: April 22nd

Planted: June 1st

Harvested: October 12th

Between rows: 65 cm

Between plants: 40 cm

CAULIFLOWER VARIETY TRIAL 1981

Variety	Seed supplier	Planting	Days from planting to 50% yield	Length of yield period in days	Yield			Curd					
					Total kg/daa	Class I kg/daa	per cent class I	Average weight class I in. grams	Colour 1-9	Height of curd 1-9	Uniformity 1-9	Compactness 1-9	Riceyness 1-9
Junal	DP	A	63	16	2250	2250	99	628	5.2	4.7	6.7	6.9	8.0
Bravo	LOG	A	59	23	2250	2200	98	616	5.0	5.1	6.9	7.0	8.0
King	LD	A	57	29	1950	1800	92	534	4.4	4.8	6.5	6.1	8.3
Paloma	RS	A	66	22	2150	2050	96	591	5.3	4.8	6.5	7.3	7.8
Hormade	ARZ	A	79	8	2400	1950	84	896	5.4	5.7	6.5	6.6	7.4
Fortuna	RZ	A	78	14	3350	3350	100	952	6.1	5.7	7.6	6.7	7.8
		B	73	22	3450	3350	98	937	7.6	7.6	7.4	6.1	7.8
Celesta	RZ	A	78	19	3100	3100	100	981	6.2	6.0	7.5	7.1	7.8
		B	66	23	3200	3200	100	957	7.7	7.0	7.6	6.6	7.7
Starlight	RZ	A	80	14	3250	3200	100	904	6.4	6.1	6.9	6.9	7.7
		B	81	31	2900	2850	99	988	7.2	7.8	7.9	6.3	8.0
SG 109	S&G	A	79	21	3150	3050	96	950	6.1	5.7	5.8	7.1	7.3
		B	80	22	3250	3250	100	931	7.1	7.5	7.8	7.7	7.1
SG 112	S&G	A	80	12	3200	3200	100	1038	6.7	6.0	6.9	7.0	7.6
		B	91	18	3300	2950	89	1052	7.5	8.1	8.0	6.3	7.6
54925 K	SUH	A	80	19	3500	3450	99	1012	6.6	6.0	6.9	7.2	7.9
		B	87	16	9600	3500	97	976	7.9	7.9	8.2	7.5	7.4
64002 K	SUH	A	77	17	3450	3450	100	1044	6.5	6.2	6.8	7.2	7.6
		B	81	25	3650	3600	99	977	7.4	7.2	7.6	7.8	7.0
Vito (SVC-014)	SUH	A	77	18	3300	3300	99	931	6.2	5.6	7.0	7.2	7.7
		B	83	26	3600	3450	96	1003	7.9	7.2	7.7	7.0	7.2
White Top	LOG	A	78	26	4050	4000	99	1025	6.1	5.8	7.2	7.0	7.8
		B	85	31	3500	3350	95	929	7.6	7.4	7.3	7.5	7.8
Dok Elgon	RS	A	78	21	3150	3100	99	912	6.2	5.9	6.8	7.1	7.7
		B	85	22	3450	3350	96	898	7.6	7.8	7.7	7.7	7.6

Replications: 2  
 Sown: 22/4  
 Planted: 27/5  
 A  
 B 25/5 3/7  
 Plot size: 6,0 x 1,3 m = 7,8 m<sup>2</sup> = 30 plants  
 Between plants: 40 cm  
 Between rows: 65 cm

CHINESE CABBAGE VARIETY TRIAL IN DEEP FURROW WITH PLASTIC COVER (1981)

Variety	Seed supplier	Head height	Head width	Internal stalklength	*per cent, internal browning	Calculated yield in kg/daa
Ally	OE	20	8.4	16	0.2	3230
Early Top	SAK	24	7.7	25	4	3140
Kinap	OE	20	8.9	16	0	4000
Nagaoka 50 D	LOG	19	9.2	5	0	3960
No. 27	SAK	15	9.9	8	0.7	2720
Spring Al	TA	19	8.8	8	0	3640
WR 60 D	TA	20	11.3	16	1	3980

\* Defined as part affected of the total longitudinal area of the head.

Sown: April 6

Planted: April 24

Harvested: June 25

Between rows: 65 cm

Between plants: 30 cm

CUCUMBER OBSERVATION TRIAL 1981

Variety	Seed supp- lier	Yield kg/daa Class I	Total yield kg/daa	% Class I	Average fruit weight in gram	Percentage distribution by weight in Class I			
						6 - 9 cm	9 - 11 cm	11 - 13 cm	> 13 cm
						Albeit	OE	709	1425
Arabel (Beit Alpha)	DP	1863	2757	63.1	62.1	25.1	37.0	22.4	15.6
Biri	OE	1928	4639	60.8	60.3	40.3	41.1	17.3	1.4
Dama	PS	1180	2919	55.7	85.3	21.8	36.8	23.7	17.7
DP 80-139	DP	1222	2611	64.8	59.9	49.0	42.0	7.4	1.6
DP 128	DP	1206	3311	55.8	61.8	38.9	43.9	17.2	-
DP 125	"	1386	3429	57.5	62.8	36.5	44.1	18.4	0.9
Levo	LOG	2012	4906	61.0	60.4	42.2	41.3	16.0	0.4
MSU 394	DES	1112	2709	65.1	50.8	61.0	36.1	2.9	-
MSU 921	"	981	2740	54.9	63.5	38.2	51.3	10.5	-
NIB WAV 302	TERRA	1376	4806	52.0	62.6	28.3	48.7	23.0	-
Sanabel (Beit Alpha)	DP	1419	3801	42.7	92.5	5.0	21.3	34.8	39.0
Slicer -76	LD	357	2405	32.0	115.7	-	-	1.0	99.0
Slicer -76	"	511	2129	33.7	159.8	0.5	-	2.4	97.0
Toret	OE	1773	4358	57.8	67.5	24.3	46.5	27.0	2.2
WAV 011 NZ	TERRA	197	1952	30.9	116.5	0.6	0.7	6.9	91.9
WISCO	OE	1661	4965	53.1	65.0	25.6	39.2	32.9	2.2
XPH 1251	ASG	1857	4201	50.2	93.8	6.2	18.8	43.6	31.4
XPH 1340	"	1650	3969	50.3	78.5	32.9	41.0	24.9	1.2
XPH 1344	"	1661	3804	60.7	74.4	42.9	42.6	14.5	-
XPH 1348	"	1797	3370	65.4	70.0	28.7	44.2	24.0	3.1
XPH 1374	"	1816	3318	62.7	72.3	36.8	41.1	20.5	1.7
626-76	NUN	1830	3114	63.6	64.0	34.7	36.1	24.7	1.7
45-78	"	1645	4026	56.7	60.7	29.8	47.9	19.0	3.3

Replications: 2

Plot size: (6 x 1,3)m = 7,8 m<sup>2</sup>

Sown: 21.5.81

Between plants: 20 cm

PICKLING CUCUMBERS. PARTHENOCARPIC VARIETIES.

Variety	Seed supplier	S T A N D A R D I										Total yield in kg/daa
		% class I	Days from sowing to 50% yield	Yield in kg/daa	Relative yield	Percentage of each size in Class I			Average weight per fruit in grams			
						6-9 cm	9-11 cm	11-13 cm > 13 cm				
SG 834	S&G	80	87	3900	128	35	40	22	3	55	5210	
Paragon	"	80	88	3060	100	46	39	14	1	51	4100	
SG 841	"	83	90	2780	91	55	35	10	0	47	3390	
Andrea	NUN	75	85	2390	78	47	37	15	1	54	3380	
301-80	"	67	85	2260	74	35	27	29	9	57	3530	
317-80	"	65	87	2810	92	34	35	25	6	63	4040	
Marbel	RS	74	85	3230	106	50	39	11	0	53	4190	
Colet	"	80	85	2710	89	50	37	13	0	47	3400	
Nanet	"	70	88	2160	71	47	39	14	0	52	3300	
Renato	"	75	90	2550	83	48	35	16	1	55	4010	

Replications: 4

Deep furrows covered with clear polyethylene film

Sown: 21. may

Between plants: 20 cm

Between rows: 130 cm

Plot size: 7,8 m

Plants per plot: 30

MELON OBSERVATION TRIAL 1981. UNHEATED POLYETHYLENE GREEN-HOUSE.

Variety	Seed supplier	Yield			Fruit				
		Total yield kg/m <sup>2</sup>	Average per cent class I	Fruit size class I in g	Fruit shape	Rib	Net	Rind colour	Flesh colour
Ogen improved	VDB	3.300	100	449	Round	Heavy	Slight	Dark green	Yellowish green
Green pearl	TA	2.750	94	495	Round	Slight	Heavy	Faint green yellow	Green/dark green
Super Sprint	PS	4.000	100	281	Round	Slight	Heavy	-	Light orange
Alaska	PS	4.000	93	789	Round/elongated	Medium	Slight	-	Dark orange
Andes	SAK	4.200	92	389	Elongated round	Slight	Slight	-	Light green
Sweetheart	" K	4.250	88	321	Round/oblate	Slight	Slight	Yellowish green	Light organge
Barada	ASG	0.690	44	575	Oblate/oval	Slight	Medium	Green	Light green
Paris	LD	3.400	100	461	Round	Slight	Heavy	Yellowish orange	Light green
Mini Yellow	"	2.450	88	204	Oval	Slight	Slight	Yellow	Light yellow
Aroma	LOG	4.400	100	841	Round	Slight	Medium	Yellowish orange	Orange

Replications: 2

Sown: May 21

Planted in Floralux Peat Bags: June 24

3 plants in each bag = A plot

Plot size: 0,95 m<sup>2</sup>

The soil was covered with polyethylene film

Fertilizer: Superba + Viking Ship CA(NO<sub>3</sub>)<sub>2</sub>

Electrical heating cables on the ground close to the peat bags (17 watt per plant).

ONION VARIETY TRIAL 1981, direct seeding.

Material supplied by the State Experimental Station Landvik.

Variety	Seed supplier	Total yield kg/daa	Average weight per onion in gram	% > 40 mm	< 40 mm	Form	Outer colour 1 - 9*	Internal colour 1 - 9*
Buffalo	DP	3150	69.4	90.8	9.2	Flat - round	3	7
Hyper	BEJO	3300	59.0	87.7	12.3	Round	5	4
Adina		4150	77.1	92.1	7.9	High - round	5	5
Sublima		3050	50.7	78.7	21.3	" "	7	5
Mabol		3800	58.9	84.5	15.4	" "	6	6
Lucrato	RS	3100	60.1	87.7	12.3	Round	4	6
Balstora	BEJO	3450	48.6	81.6	18.4	" "	7	5
Hygro		3500	56.2	85.7	14.3	" "	7	6
Gustado	S & G	3050	54.0	79.2	20.8	High - round	5	6
Solo	DP	3450	76.5	86.8	13.2	Round	5	6
Pop 3	SFL	2350	43.3	67.6	32.3	" "	5	7
Jumbo	S & G	3300	53.5	84.2	15.8	High - round	7	6

Replications: 4

Sown: May 7 th

Harvested: September 27th

Between rows: 80 - 35 - 35 - 80

Plot size: 1.5 x 5 m = 7.5 m<sup>2</sup>

\* = outer colour scala 1-9, where 9 is for the best character.

\* = internal colour scala: 1 = Dark colour  
2 = Light colour

SHALLOTS VARIETY TRIAL 1981 (CONTINUED)

Variety	Seed supplier	Total yield kg/daa	% > 30 mm	Outer colour	Internal colour
Sante Hollandsk	LOG	2850	92.8	7	5
S 14	"	2450	79.6	5	9
Dyrer J.E. dansk	"	1650	89.1	6	9
Vanlig hollandsk	"	1550	83.7	5	9



ONION VARIETY TRIAL 1981, ONIONS FROM SET

Variety	Seed supplier	Total yield kg/daa	Average weight per onion in gram	% > 40 mm	Form	Outer colour 1 - 9*	Internal colour 1 - 9*
Pop 3	*	4200	140	97.5	Round	5	9
Poplina		4150	138	95.1	"	5	9
Pop 1		4050	138	96.2	"	5	8
Pop 4		3850	128	97.5	"	6	9
Excellent		3850	152	96.3	"	4	9
Barko		3800	140	95.2	"	4	9
Hyper		3700	156	99.2	"	5	9
Lava		3700	126	97.5	"	5	9
Wabasto	LOG	3650	132	97.4	"	5	9
Balstora		3600	130	95.3	"	4	9
Hygro	LOG	3550	133	96.4	"	5	9
Pop 2		3500	126	96.7	"	5	9
Adina		3500	142	95.5	"	5	9
Jumbo	LOG	3450	136	98.1	"	5	9
Gustado		3450	110	88.8	"	4	7
Enormous	LOG	3150	115	97.3	"	5	9
Stuttgarter							
Riesen	LOG	3000	86	94.7	Flat-round	4	9

Replications: 2

Planted: May 11-13th

Harvested: September 9th

Between rows: 80-35-35-80 cm

Plot size: 1.05 x 5.04 m = 7.56 m<sup>2</sup>

\* Seed supplier: Vestfold

\* Outer colour-scala: 1-9, where 9 is for the best colour

\* Internal colour-scala: 1 = Dark colour

9 = Light colour

RADISH VARIETY TRIAL 1981

Variety	Seed supplier	% of total yield at first harvest	Average weight of each radish in g	% by weight of foliage	Outer colour 1-9*	Internal colour 1-9*	Root shape 1-9*	Pelerot dominant	Sponginess	Bunching value 1-9*
Flamenco	ASM	13.7	9.1	29.7	8	8	7	6	8	6
Scarabelle	ARZ	23.1	4.9	34.5	5	7	7	7	7	-
Cherry Belle	"	15.1	8.8	31.8	6	6	8	7	7	-
Ny ES	LD	21.4	8.5	35.8	8	5	8	8	6	-
Stoplite	NK	14.1	10.8	42.5	5	5	6	5	6	5
Red Baron	"	38.0	9.1	36.0	7	5	7	6	7	7
Signal	TERRA	19.4	15.4	47.6	7	8	8	6	8	5
Prinz Rotin	SPER	33.1	14.0	49.0	4	7	6	4	8	4
Knocker	"	12.2	11.3	41.6	4	3-4	4	4	5	4
Ribella	ARZ	15.8	9.9	35.7	5	5	6	7	6	6
Minitas	NUN	29.0	11.2	32.3	6	4	5	4	5	5
Novitas	"	38.9	9.2	33.2	6	4	6	5	7	6
Saxofire	DP	37.1	9.2	31.3	6	7	7	7	7	6
No. 8	LD	21.1	9.8	33.4	8	6	7	7	7	7
Istap	OEK	49.9	15.8	37.7	White	White	4	5	7	4
Non + Ultra	"	35.1	9.8	28.7	4	4	5	5	7	5
357	ENZA	34.1	11.0	34.1	7	5	6	6	4	5
Briljant	"	45.1	11.2	33.8	4	5	6	6	7	6
Marquise	"									

Sown: April 9

\* Scale 1-9, where 9 is the best character and 1 is not acceptable.

SWEET CORN TRIAL 1981

Deep furrow covered with polyethylene film.

Variety	Seed supplier	Plant height in cm	% yield up to sept. 26	Yield		Cob			Seed colour
				% class I	yield kg/daa	Average weight in g	Number of cobs per plant total	Number of seed rows	
Earligem	STO	195	57	72	1800	237	1,3	13,4	Light yellow
Mellogold	RS	205	21	86	1800	286	1,6	14,4	Yellow anthocyan
Beacon	RB	185	64	84	1900	256	1,9	15,3	Light yellow
Fanfare	"	235	-	91	1900	319	1,5	18,8	" "
Sundance	HAR	200	-	77	1550	232	1,7	15,3	" "
XP 2532	ASG	220	13	90	1450	302	1,3	17,6	Yellow
Buttervee	STO	145	100	69	1550	242	1,6	13,4	Light yellow
Northervee	"	120	100	44	850	334	1,2	12,7	" "
Northlite	"	185	60	84	2000	243	2,2	12,9	" "
Spring Gold	HAR	180	46	71	1200	211	1,5	15,1	Yellow

Replications: 3

Sown: May 18

First harvest: September 7

Plot size: 6 x 1,3 m = 7,8 m<sup>2</sup> = 30 plants

Between double rows: 40 cm

Between plants: 40 cm.

SWEET CORN OBSERVATION TRIAL 1981

Deep furrow covered with polyethylene film

Variety	Seed supplier	Plant height in cm	% yield up to Sept. 26	Number of cobs per plant	Yield		Cob		Seed colour
					% Class I	Total Yield kg/daa	Average weight in g	Number of seed rows	
Aztec	ASG	210	75	1,5	92	1600	279	14,2	Yellow - anthocyan
Meteor	LD	160	97	1,2	83	1150	260	13,8	Light yellow
Gold Winner	HAR	250	-	0,6	89	600	245	16,0	" "
Harmony	"	190	52	1,5	74	1500	251	16,4	White/yellow
Early Sunray	SW	230	92	1,6	87	1650	265	13,7	Yellow
Borealis	KEY	175	75	1,7	67	1550	240	12,8	Light yellow
Reward	RB	215	76	1,3	86	1800	333	19,2	Yellow
Debut	"	220	61	1,7	83	1850	286	13,6	"
Earlivee	STO	155	95	1,0	73	650	227	13,2	"
Goldenvee	"	220	-	0,9	90	950	278	13,2	"

Replications: 2

Sown: May 18

First harvest: September 7

Plot size: (6 x 1,3) m = 7,8 m<sup>2</sup> = 30 plants

Between double rows - 40 cm

Between plants - 40 cm

TOMATO OBSERVATION TRIAL 1981

In the open

Variety	Seed supplier	Yield			Fruit	
		Up to Aug. 25 kg/daa	Total kg/daa	% Class I	% Class II	Average weight in g class I
Bonner	BOE	2000	2550	25.1	35.5	45
Santa	"	2250	3550	6.4	20.9	44
Benewah	"	1600	3100	18.4	18.4	85
Mootenai	"	1650	2950	32.9	20.4	53
Shoshone	"	2850	4600	31.5	36.0	48
Sandpoint	"	3150	3850	28.9	38.3	42
Latah	"	2300	2600	7.1	28.4	33
Gem State	"	1850	2650	14.5	37.0	41
Alfresco	CS	2500	4300	51.3	20.0	56

Replications: No

Sown: April 14

Planted: June 1

First harvest: July 10

Plot size: 1,2 x 1,75 = 2,1 m<sup>2</sup>

Plant number: 8

Between plants: 35 cm

Between rows: 80 - 40 - 80 cm

TOMATO OBSERVATION TRIAL 1981

In the open

Variety	Seed supplier	Yield				Fruit	
		Up to Aug. 25 kg/daa	Total kg/daa	% Class I	% Class II	Average weight in g Class I	
Nr. 156 33	DP	-	4200	1.7	40.9	50	
Bonset	RS	350	3900	65.6	13.6	58	
Sub Arctic Maxi	STO	1340	3050	27.9	17.1	78	
Basket Vee	"	-	3400	3.0	15.2	105	
Stokes Pak	"	90	3150	24.8	22.8	71	
Stakeless	"	-	1100	5.9	22.0	120	
B 79.620 TmC <sub>5</sub> F <sub>2</sub>	VDB	-	2600	-	3.5	-	
B 79.618 TmC <sub>5</sub> VF <sub>2</sub>	"	50	2650	32.6	17.4	47	
B 79.608 TmC <sub>5</sub> F <sub>2</sub>	"	50	2600	11.2	17.4	44	
Piranto F <sub>1</sub> TmC <sub>5</sub> PF <sub>2</sub>	"	150	3500	34.9	23.1	45	
Rianto F <sub>1</sub> TmC <sub>5</sub> F <sub>2</sub>	"	-	2200	7.7	25.7	62	
Belcanto F <sub>1</sub> TmC <sub>5</sub> VF <sub>2</sub> N	"	-	2400	15.6	30.7	49	
Mondial	RZ	-	3250	15.4	25.6	53	
Bellina	"	-	1600	9.7	10.3	37	
WW 220 F <sub>1</sub>	WW	-	3200	34.7	18.5	48	
Ida (WW 214) F <sub>1</sub>	"	-	3900	56.7	15.0	45	
WW 239 F <sub>1</sub>	"	300	3350	25.1	18.6	61	
WW 236 F <sub>1</sub>	"	150	4600	29.1	18.2	55	
1417/79 TmC <sub>5</sub> F <sub>2</sub>	"	-	3650	11.2	29.1	51	
Ostona TmC <sub>5</sub> FF <sub>1</sub>	BRU	150	4300	24.8	23.2	52	

TOMATO OBSERVATION TRIAL 1981 CONTINUED

In the open

Variety	Seed supplier	Yield				Fruit	
		Up to Aug. 25 kg/daa	Total kg/daa	% Class I	% Class II	Average weight in g Class I	
1404/79 TmC <sub>5</sub> F <sub>2</sub>	BRU	200	5050	34.9	13.5	60	
Meritra TMV	ENZA	50	3550	11.1	14.5	42	
EIse (E 6857) TmC <sub>5</sub> F <sub>2</sub> TMV	"	150	2250	26.7	29.1	47	
Sabrina (E 6864) TMV	"	-	2600	-	18.5	-	
Virosol (E 5565)	"	100	3200	43.5	21.7	45	
Vibelco (E 4777) TMV	"	150	3250	42.6	21.7	43	
Virosa	"	100	3850	54.8	19.6	48	

Replications: 2

Sown: April 23

Planted: June 1

First harvest: August 10

Plot size: 1,2 x 1,75 = 2,1 m<sup>2</sup>

Plant number: 8

Between plants: 35 cm

Between rows: 80 - 40 - 80 cm

TOMATO VARIETY TRIAL 1981

In the open

Variety	Seed supplier	Yield				Fruit	
		Up to	Total	%	%	Average weight in g class I	
		Aug. 25 kg/daa	kg/daa	Class I	Class II		
Early Girl	BALL	100	4600	39.0	26.5	73	
Compaty	ENZA	500	5100	37.4	24.3	44	
Tulena VFF <sub>1</sub>	LC	-	3300	25.3	35.1	66	
Alfresco	CS	1050	6250	52.7	20.4	53	
Early Cascade	PS/STO	200	4500	40.1	26.8	53	
City Best VF F <sub>1</sub>	PARK	700	4250	27.7	25.1	60	
Bigset VFN	PS	-	1700	10.5	26.3	74	
730-78	WW	2300	4950	36.7	21.2	98	

Replications: 4

Sown: April 23

Planted: June 1

First harvest: August 10

Plot size: 1,2 x 1,75 = 2,1 m<sup>2</sup>

Plant number: 8

Between plants: 35 cm

Between rows: 80 - 40 - 80 cm.



TOMATO VARIETY TRIAL 1981  
UNHEATED POLYETHYLENE TUNNEL

EGNO

Variety	Seed supplier	Yield			Fruit				
		Up to Aug. 25 kg/daa	Total kg/daa	% Class I	% Class II	Average weight in g Class I	Height/width in mm	Number of seed rooms	Refractometer value ripe fruit
Duke	PS	100	6500	45.5	31.0	117.6	5.4/6.2	4.3	3.3
Peto 86	"	200	4450	48.8	31.3	73.7	5.8/4.1	1.9	3.4
Alfresco	CS	2250	8450	56.3	24.3	63.8	4.9/5.4	3.6	4.5
Delisa	ENZA	2200	9650	38.9	27.0	93.6	4.9/5.5	3.3	4.4
Baron	PS	500	6650	39.4	37.3	117.8	5.4/6.0	5.0	4.2

Replications: 4

Sown: April 22

Planted: May 26

First harvest: August 10

Plot size: 1,2 x 1,75 m = 2,1 m<sup>2</sup>

Plant Number: 8

Between plants: 0,35 m

Between rows: 65-35-65 cm

TOMATO VARIETY TRIAL 1981

In the open

Variety	Seed supplier	Yield			Fruit	
		Up to Aug. 25 kg/daa	Total kg/daa	% Class I		Average weight in g Class I
Duke	PS	250	2250	21.7	29.5	88.3
Peto 86	"	200	950	5.8	34.6	51.0
Alfresco	CS	750	5050	42.6	24.0	53.1
Delisa	ENZA	250	4750	25.0	28.2	59.2
Baron	PS	100	1900	16.2	30.7	110.8