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1974 Cabbage Cultivar Evaluation Trials

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CABBAGE CULTIVAR EVALUATION TRIAL - 1974

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The fresh market cabbage cultivar evaluation trial was conducted at the OARDC Green Springs Crops Research Unit near Green Springs. The soil is a sandy-loam. The plots received 950 lb/A of 10-20-20 fertilizer, 1 lb/A boron and 2 lb/A of Dyfonate pre-plant incorporated. In addition, 6-24-12 at 150 lb/A was banded in the row at planting. Treflan at .75 lb/A was pre-plant incorporated for weed control.

The planting was direct seeded on April 16 using a Planet-Jr. seeder. Rows were 30-ft. long on 30-in. centers. The rows were hand-thinned to give a 12-in. spacing. Each cultivar was replicated three times.

Cultural care throughout the season was according to recommended procedures. No serious insect, disease or weed problems developed during the season. Monthly rainfall totals were:

April	- 2.93 in.
May	- 3.50 in.
June	- 3.40 in.
July	- .54 in.
August	- 4.36 in.

When fresh market cultivars reached marketable maturity, the authors individually evaluated each cultivar for external color, uniformity of head size and maturity, plant size, head shape, plant uprightiness, leaf bloom and wrapper-leaf cover. In addition, the number of bursted heads was recorded. The mature heads were then harvested, counted, weighed and evaluated for firmness. Four heads from each cultivar of each replicate were cut and the core length and polar and equatorial diameters were recorded. One additional harvest was made from each cultivar when the majority of the remaining heads had reached marketable maturity.

The data are generally self-explanatory except for the Day No. of the first harvest. This refers to the day of the year when the first harvest occurred and is an indication of the relative earliness of the cultivars under the conditions of the trial.

The authors wish to extend their sincere appreciation to the seed companies who supplied seed for this trial. Included were: Ferry-Morse Seed Co., Mountain View, Calif.; Joseph Harris Co., Inc., Rochester, New York; Northrup, King & Co., Minneapolis, Minn.; Niagara Div. FMC Corp., El Macero, Calif.; Asgrow Seed Co., Kalamazoo, Mich.; Agway, Inc., Syracuse, New York; R. L. Holmes Seed Co., Canton, Ohio.

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TABLE 1.--Yield and Quality Characteristics of Cabbage Cultivars for Fresh Market - 1974*

Cultivar	Source	Lot No.	Day No.	First Harvest			Total Harvest		Core Length	Polar Dia.	Equatorial Dia.
				Ton/A	Lb/Head	% Harv.	Ton/A	Lb/Head			
Golden Acre 84	Harris	2363	190	12.1	2.06	65.6	13.9	1.80	2.46	5.38	5.25
Sun-up	Harris	297-2390	190	10.4	2.58	47.5	14.3	2.03	2.67	5.83	5.79
Jet Pak	Northrup-King	36009-50204	190	14.2	2.69	60.3	16.1	2.47	3.00	5.71	5.75
Banner	Asgrow	30501 A	190	13.1	2.84	54.4	17.3	2.61	3.58	6.42	6.00
Headstart	Asgrow	30500 AX	190	16.7	3.33	59.5	18.7	2.88	3.63	6.67	6.38
Danny Boy	Niagara	----	190	13.3	2.51	59.2	16.0	2.21	3.21	6.00	5.88
Starmaster	Holmes	105	190	10.1	2.93	40.1	15.3	2.39	3.42	6.13	5.96
Market Victor	Harris	284-2304	191	12.7	2.86	51.1	17.1	2.63	2.75	5.75	6.09
Hybrid A	Harris	6892	191	11.7	2.38	55.5	15.6	2.19	2.46	5.67	5.59
Stonehead	Agway	V-237	191	6.6	1.91	41.2	8.0	1.78	2.29	5.17	5.13
NCR-905-R	Niagara	9005-9004	192	13.3	2.19	70.8	15.6	2.05	3.05	5.59	5.46
Express	Asgrow	30502 A	192	14.9	2.26	73.3	16.5	2.18	3.17	5.38	5.33
Wizard	Northrup-King	36003-70302	193	13.4	2.23	68.8	16.4	2.14	3.02	5.90	5.38
Jackpot	Niagara	16407	195	13.1	2.39	59.6	16.7	2.18	3.13	5.32	5.19
Gourmet	Ferry-Morse	11420	195	12.0	2.52	57.5	14.2	2.32	2.96	5.79	5.75
Market Topper	Harris	278-2208	197	10.3	2.72	47.5	13.6	2.32	3.10	5.73	5.86
Hybrid 15	Harris	276-2419	197	10.1	2.11	54.8	15.0	1.95	2.44	5.50	5.31
Market Prize	Harris	2464	199	12.4	2.51	59.3	15.7	2.40	2.73	5.48	5.59
Ruby Ball	Harris	2448	199	10.9	1.90	64.9	14.3	1.81	2.48	5.56	5.25
NCX-903	Niagara	9001-9000	199	15.6	2.50	71.2	17.6	2.39	3.15	5.23	5.52
Blue Chip	Ferry-Morse	11220	202	12.2	2.74	49.6	17.0	2.35	2.77	6.13	5.60
Little Rock	Ferry-Morse	10422	207	11.7	2.63	51.5	15.4	2.36	2.81	5.81	5.58
Green Boy	Northrup-King	36005-50502	207	16.9	3.72	53.3	24.8	3.27	3.31	6.46	6.30
NCX-902	Niagara	9000-9001	209	11.3	3.19	39.6	16.1	2.97	3.73	5.73	5.63
Redman	Harris	2440	212	9.9	2.36	51.7	11.1	2.10	3.44	6.34	5.44
Rio Verde	Northrup-King	36017-50902	212	18.2	3.78	56.7	20.7	3.50	3.29	5.92	6.09
Hercules	Northrup-King	36015-70302	212	18.2	3.21	63.7	22.8	3.06	2.79	5.59	6.46
NCX-907	Niagara	7013	213	20.5	3.32	67.6	24.6	3.24	3.46	6.36	6.21
Resistant Danish	Harris	277-2366	218	15.2	2.62	65.2	18.0	2.48	3.38	5.21	5.50
Excel	Harris	264-2361	231	18.7	2.76	75.3	21.4	2.57	3.00	5.38	5.71
Red Danish	Harris	291-2438	231	16.4	2.87	68.8	17.8	2.75	3.21	5.96	5.54
Green Winter	Harris	274-2411	253	28.6	3.80	88.0	28.6	3.80	2.67	5.79	6.15
Red Winter	Harris	295-2287	253	12.1	1.97	76.6	12.1	1.97	2.46	5.44	4.79

* Field seeded on 4-16-74 (Day No. 106)

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TABLE 2.--Quality Characteristic Ratings of Fresh Market Cabbage Cultivars - 1974*

Cultivar	Firmness	External Color	Uniformity	Plant Size	Head Shape	Upright- ness	Leaf Bloom	Leaf Cover
Golden Acre 84	1.0	1.0	2.7	1.0	2.0	1.0	3.0	3.0
Sun-up	1.0	1.0	3.0	1.0	2.0	1.0	3.0	3.0
Jet Pak	1.0	1.3	2.7	1.7	1.3	1.7	2.3	2.0
Banner	1.0	1.0	2.7	1.3	1.7	1.0	2.3	2.0
Headstart	1.7	1.0	2.3	2.0	1.3	1.0	3.0	2.0
Danny Boy	1.0	1.0	2.3	1.0	2.0	1.0	2.7	2.0
Starmaster	1.0	1.7	3.0	1.3	2.0	1.0	2.3	2.0
Market Victor	1.7	2.0	2.7	1.7	2.0	1.0	3.0	1.3
Hybrid A	1.7	1.0	2.7	1.7	2.0	1.0	2.3	2.0
Stonehead	1.0	1.3	3.0	1.0	2.0	1.0	2.7	3.0
NCR-905-R	1.7	1.3	2.0	1.7	2.0	1.0	1.7	1.3
Express	1.3	1.0	2.0	2.0	2.0	1.0	2.3	2.0
Wizard	1.0	1.3	2.7	1.7	1.7	1.0	3.0	2.7
Jackpot	1.7	1.0	1.7	2.3	2.0	1.3	2.7	1.0
Gourmet	2.0	1.7	2.7	2.0	2.0	1.0	2.7	1.3
Market Topper	2.0	1.3	3.0	2.0	2.0	1.3	2.7	1.3
Hybrid 15	1.0	1.7	3.0	2.0	2.0	2.0	2.7	2.0
Market Prize	2.0	2.0	2.7	1.7	2.0	1.0	2.3	1.7
Ruby Ball	1.0	4.0	2.3	2.0	2.0	1.0	3.0	1.0
NCX-903	1.3	1.3	2.3	1.3	2.0	1.0	2.7	1.7
Blue Chip	1.0	2.0	3.0	1.3	2.0	1.3	3.0	1.7
Little Rock	1.0	2.0	2.7	1.3	2.0	1.7	3.0	1.0
Green Boy	1.3	2.0	2.3	2.0	2.0	1.3	3.0	1.3
NCX-902	1.0	2.0	2.7	2.3	2.0	1.0	2.7	1.0
Redman	1.0	4.0	2.7	3.0	2.0	1.0	3.0	1.0
Rio Verde	1.0	2.3	2.7	3.0	2.7	1.0	3.0	1.0
Hercules	1.0	2.0	2.3	3.0	3.0	1.3	3.0	1.0
NCX-907	1.7	2.0	2.3	2.7	2.0	1.3	3.0	1.0
Resistant Danish	1.0	2.7	2.3	2.7	2.3	1.0	3.0	1.0
Excel	1.0	2.0	2.3	2.3	2.0	2.0	2.7	1.0
Red Danish	1.0	4.0	2.3	3.0	2.0	2.0	3.0	1.0
Green Winter	1.0	1.3	2.3	2.0	2.0	2.0	3.0	1.3
Red Winter	1.0	4.0	2.7	1.0	1.3	1.0	3.0	2.0

* Firmness: 1 - Firm, 2 - Medium, 3 - Soft
 Color: 1 - Green, 2 - Blue Green, 3 - Blue, 4 - Red
 Uniformity: 1 - Good, 2 - Fair, 3 - Poor
 Plant Size: 1 - Small, 2 - Medium, 3 - Large
 Head Shape: 1 - Pointed, 2 - Round, 3 - Flat
 Uprightness: 1 - Upright, 2 - Slightly tipped, 3 - Very tipped
 Leaf Bloom: 1 - Slight, 2 - Moderate, 3 - Heavy
 Leaf Cover: 1 - Good, 2 - Fair, 3 - Poor

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