

OHIO AGRICULTURAL EXPERIMENT STATION

Vegetable Crops Substation, Marietta, Ohio

Department of Horticulture Mimeograph Series No. 198
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EARLY CABBAGE VARIETY TRIALS - 1959
Marietta, Ohio

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Three new varieties or strains of cabbage, Golden Acre Strandholm strain, Stokes Early Hybrid, and Early Green Ball were evaluated in the 1959 trials. These were compared with seven other varieties or strains of varieties for their suitability as early fresh market cabbage. The results are given in Table 1.

CULTURAL INFORMATION

Seed Sowed: February 3 in sash house ground beds and plants set in field March 30.

Fertilizer: 1110 lbs./A. of 3-9-18 plus 200 lbs/A of ammonium nitrate drilled and disked in prior to planting. One side dressing of ammonium nitrate applied three weeks after field setting.

Starter Solution: 10 lbs. of ammonium nitrate per 50 gals. of water at rate of $\frac{1}{2}$ pint per plant in transplanting water.

Spacing: Rows 36" apart, plants 11" in the row, 42 plants per single row plot randomized and replicated six times.

Date of first harvest: June 1, 1959.

SOURCES OF SEED

<u>Code</u>	<u>Source</u>
B ₁	W. Atlee Burpee & Co. Hunting Park Ave. @ 18th St., Philadelphia 32, Pa.
H ₁	Joseph-Harris Co. Inc., Moreton Farm, Rochester 11, N.Y.
R ₁	Robson Quality Seeds, Inc. Hall, N.Y.
S ₁	Stokes Seeds, Ltd., St. Catherines, Ontario, Canada
S ₃	C. P. Strandholm, 15 Falkonier Alle, Copenhagen F., Denmark

GENERAL COMMENTS

Early Greenball matured with Earliana but it could be possibly 1 to 2 days later, since it showed slightly less cracking of outer wrapper leaves and the head size of Early Greenball averaged slightly less than Earliana. Early Greenball has excellent internal color and texture. Appeared promising and needs further evaluation to compare with Earliana.

Stokes Early Hybrid in the same maturity range as Golden Acre Special. Good head shape and size with good internal color. Texture similar to Golden Acre. Not as uniform as to type as most F₁ hybrids.

Golden Acre Strandholm strain appeared to be 2-3 days earlier than Golden Acre Special with slightly smaller average head size. Good uniformity of type and very uniform internal color and texture. Shape uniform and true globe.

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TABLE 1
CABBAGE VARIETIES
MARIETTA, OHIO - 1960

Variety and Lot Number	Source	Number of Days to First Harvest	Yield per Acre	Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index (Polar/Equatorial)	Shape of Head	Length of Core	Plant Diameter	Height of Stem	General Uniformity(1-5)	Uniformity of Maturity	Solidity (1-5)	Remarks
			Tons	Lbs	%	In.	In.	In.	In.							
1. Golden Acre Special 1671	H ₁	66	23.5	3.3	99.2	6.0	5.4	1.11	Globe	3.1	22.4	S	3	4	5	Unif. of type and maturity variable, not as early comparatively.
2. Golden Acre V. R. 1586	H ₁	64	22.1	3.2	99.1	5.8	5.3	1.09	"	2.8	21.2	S	4	4	5	Maturity earlier than G. Acre Spec.
5. Early Marvel -	S ₁	60	21.2	3.2	97.8	5.3	5.9	0.90	Flat Globe	3.1	22.4	S	4	4	5	Head size sl. larger than in 1958. Exc. quality and internal color.
3. C.C. Cross Hybrid 49	R ₁	60	21.1	3.0	98.7	5.9	5.4	1.09	Globe	2.6	21.7	S	5	5	5	Excellent internal texture and color, solid and compact.
7. Golden Acre Strandholm 409	S ₃	62	20.5	2.9	98.3	5.7	5.5	1.04	Globe	3.1	21.3	S	4	4	5	Small head size, firm, solid, fine texture (internal) and exc. color. Earliest of G.A. strains.
8. Stokes Early Hybrid 61	S ₁	65	19.6	2.8	99.6	5.8	5.6	1.04	Globe	2.8	23.7	S	3	4	5	Exc. type, not as unif. as most F ₁ hyb. Good color.
4. Earliana 6272	B ₁	58	19.1	2.8	98.3	5.0	4.9	1.02	Globe	2.5	21.1	S	5	5	5	Small compact head, solid, good quality. Earliest in trials.
6. Early Greenball -	S ₁	58	18.6	2.7	98.3	5.5	5.3	1.04	Deep Globe	2.7	21.1	S	5	5	5	Exc. type, unif. and shape. Holds well. Exc. color.

TABLE 1 (cont'd)
CABBAGE VARIETIES
MARIETTA, OHIO - 1960

Variety and Lot Number	Source	Number of Days to First Harvest	Yield per Acre		Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index (Polar/Equatorial)	Shape of Head	Length of Core	Plant Diameter	Height of Stem	General Uniformity(1-5)	Uniformity of Maturity	Solidity (1-5)	Remarks
			Tons	Lbs.													
9. Badger Market V.R. 1640	H ₁	71	18.5	2.6	98.3	5.6	5.5	1.02	Globe	2.4	21.6	S	5	5	5	Exc. type, very compact solid heads, fine internal texture and color. Holds well.	
10. Red Acre 675	H ₁	85	13.3	1.9	99.6	-	-	-	Deep Globe	-	25.2	M	5	5	4	Large plant per head size. Later than normal. Exc. color and quality.	
			LSD 5% Level														