

CO
P180

Horticulture & Crop Science Department Ser. 674

December 1997

CABBAGE CULTIVAR TRIAL — 1997

Richard L. Hassell and Cindy Wallace



O. A. R. D. C.
JAN 20 1998
LIBRARY



OARDC

**Horticulture & Crop Science
The Ohio State University/OARDC
Wooster, OH 44691**

639
OH3

This page intentionally blank.

TABLE OF CONTENTS

| | Page |
|---|-------------|
| 1997 Cabbage Cultivar Trial | |
| Objective | 1 |
| Methods | 1 |
| Results | 1 |
| Table 1a. Results Bejo, Takii, Siegers, Sakata, Rogers, Reeds, Rispens | 2 |
| Table 1b. Results Rispens, Asgrow, Chriseed, Ferry-Morse, Rogers, Harris-Moran, Stokes | 3 |
| Table 2. Results Boose Farms | 4 |

All publications of the Ohio Agricultural Research and Development Center are available to clientele without regard to race, color, creed, religion, sexual orientation, national origin, gender, age, disability or Vietnam-era veteran status.

12/97-H852/250

This page intentionally blank.

Cabbage Cultivar Trial 1997
The Ohio State University
Horticulture and Crop Science Department
Dr. Richard L. Hassell
Mrs. Cindy Wallace

Objective: To evaluate available cultivars or advanced breeding lines for potential use in fresh market cabbage production under northern Ohio growing conditions.

Methods: Seed companies were contacted in late February for entry in the trial. From those requests forty-two entries were received from eleven major seed companies. Fifteen cultivars were then selected for a grower trial at Boose Farm, Inc. All entries were seeded in the greenhouse on May 5th using Landmark 288 deep cell trays and Metro Mix 360 soilless media at the Vegetable Crops Branch located in Fremont, Ohio. Once the plants had reached the 1st true leaf stage a continuous fertilizer feed program with 50 ppm Nitrogen was enacted using Peters 20-20-20 water soluble fertilizer. After six weeks the plants were pulled and prepared for field transplanting at both the Fremont location as well as for Boose Farm in Norwalk, Ohio.

At the Vegetable Crops Branch field preparation was done prior to transplanting. Field transplanting was done using a Holland Brand Carousel planter on June 16. Thirty foot single row plots were thirty inches apart between rows with plants placed ten inches apart within the row. Each cultivar was replicated four times in a randomized complete block design. At the Boose Farm location plots were double rows, two hundred fifty feet long for each cultivar entered. Plant spacing was ten inches between plants and thirty inches between rows.

Standard grower practices were then employed to insure adequate plant growth and development. Rich, we did not need irrigation in this year. Pesticides were applied as needed to insure weed, insect and disease control.

Results: Eleven cultivars are worthy of trial on a commercial basis: Green Cup, Emblem, Fresco, Gideon, Lynx, Blue Thunder, Atlantis, Blue Pak, XPH 15511, Eristo, and Dynamo.

Acknowledgment

Thank you to the OVSFRDP for their financial support to this project.

This page intentionally blank.

Table 1a: Cabbage Cultivar Trial 1997

| Cultivar | Source | * Days To Harvest | Wt/head lbs | Wt/Crate 16 count lb | Wt/Crate 18 count lb | Head Height inches | Head Diameter inches | Core Length inches | Comments |
|--------------------|---------|-------------------------|----------------|----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|--|
| Ramada | Bejo | 111 | 3.20 | 51 | 58 | 7.35 | 6.42 | 3.17 | flat heads, light green, few thrips, large heads, solid inside |
| Cheers | Takii | 111 | 3.18 | 51 | 57 | 8.01 | 7.12 | 3.58 | round to flat heads, no wrapper leaves, blue green large heads |
| Green Cup | Takii | 93 | 2.61 | 42 | 47 | 6.17 | 6.79 | 3.13 | excellent wrapper leaves, round to flat, blue green, long core, no thrips |
| Gloria Kid yr | Siegers | 93 | 2.81 | 45 | 51 | 6.53 | 7.79 | 2.75 | round to flat, blue green, excellent wrapper leaves, no thrips loose inside |
| Green Kid yr | Siegers | 111 | 2.91 | 47 | 52 | 6.98 | 6.99 | 3.39 | round to flat, no wrapper leaves, thrip injury, internal decay blue green |
| Silk Road | Siegers | 111 | 2.85 | 46 | 51 | 7.11 | 6.81 | 3.28 | mostly round, blue green, no thrip injury, excellent wrappers |
| Green Challenger | Siegers | 93 | 2.37 | 38 | 43 | 6.54 | 6.59 | 3.46 | thrip injury, no wrapper leaves, blue green, round to flat, core extending |
| Green Voyager | Siegers | 93 | 2.37 | 38 | 43 | 6.29 | 6.67 | 3.29 | round to pointed heads, blue green, light thrip injury, tight inside |
| Emblem | Sakata | 93 | 2.53 | 40 | 46 | 6.46 | 6.71 | 3.83 | round to pointed heads, green, excellent wrapper leaves, no thrip |
| Blue Vantage | Sakata | 93 | 2.69 | 43 | 48 | 6.46 | 7.17 | 2.83 | flat heads, blue green, light thrip, few wrapper leaves, loose |
| CB2 | Rogers | 93 | 2.25 | 36 | 41 | 6.88 | 6.25 | 3.17 | blue to blue green, excellent wrapper leaves, round to pointed light thrip injury |
| Augusta | Rogers | 93 | 2.76 | 44 | 50 | 6.63 | 6.84 | 3.33 | blue green heads, few wrapper leaves, no thrip injury |
| Bronco F1 | Bejo | 111 | 3.04 | 49 | 55 | 7.06 | 7.00 | 2.84 | round to flat mostly round, blue green, no wrapper leaves, no thrip injury |
| Fresco F1 | Bejo | 93 | 2.92 | 47 | 53 | 6.89 | 7.17 | 3.27 | blue heads, a lot of wrapper leaves, crinkly outer leaves, found to flat heads, light thrip injury |
| Farao F1 | Bejo | 80 | 3.14 | 50 | 57 | 7.10 | 7.12 | 3.50 | round heads, few wrapper leaves, blue green heads, early but no real attractive |
| Gideon | Bejo | 111 | 3.19 | 51 | 57 | 7.12 | 6.68 | 2.98 | round heads, blue green, curly leaves, excellent wrapper leaves solid interior |
| Azurro | Bejo | 111 | 2.27 | 36 | 41 | 6.58 | 6.39 | 2.72 | red, mostly round heads, few wrapper leaves, short core |
| Lynx Hybrid | Reeds | 111 | 2.79 | 45 | 50 | 7.21 | 6.55 | 3.07 | round heads, blue green, light thrips, excellent wrapper leaves |
| Supelite yr hybrid | Reeds | 111 | 2.68 | 43 | 48 | 6.56 | 6.34 | 3.37 | excellent wrapper leaves, blue green, round heads, small very solid interior |
| Blue Thunder | Rispens | 111 | 3.02 | 48 | 54 | 7.48 | 6.74 | 3.86 | blue green, no thrip, no wrapper leaves, very thick core |
| Atlantis | Rispens | 111 | 2.74 | 44 | 49 | 6.58 | 6.58 | 2.75 | blue green, excellent wrapper leaves, curly leaves, solid round to pointed heads |

* From Transplant
Seeded: May 5, 1997
Transplanted: June 18, 1997

This page intentionally blank.

Table 1b: Cabbage Cultivar Trial 1997

| Cultivar | Source | Days To Harvest | Wt/head lbs | Wt/Crate 16 count lb | Wt/Crate 18 count lb | Head Height inches | Head Diameter inches | Core Length inches | comment |
|------------|--------------|-----------------|-------------|----------------------|----------------------|--------------------|----------------------|--------------------|---|
| Blue Gem | Rispens | 93 | 2.76 | 44 | 50 | 6.67 | 7.17 | 3.29 | light thrip injury, few wrapper leaves, round to flat heads, blue green heads |
| Blue Pak | Rispens | 93 | 2.71 | 43 | 49 | 6.83 | 6.56 | 3.00 | blue to blue green, excellent wrapper leaves, round heads, solid interior |
| Applause | Rispens | 93 | 2.73 | 44 | 49 | 6.25 | 7.31 | 2.87 | green heads, few wrapper leaves, loose inside, flat heads, no thrip injury |
| Blue Bayou | Asgrow | 111 | 2.94 | 47 | 53 | 7.89 | 6.33 | 3.82 | flat heads, blue green, light thrip injury, no wrapper leaves solid leaves |
| XPH 15513 | Asgrow | 111 | 3.37 | 54 | 61 | 7.64 | 6.78 | 2.80 | blue green, flat heads, excellent wrapper leaves, some thrip inju |
| XPH 15514 | Asgrow | 111 | 2.87 | 46 | 52 | 7.68 | 6.48 | 3.31 | flat heads, blue green, no wrapper leaves, large heads, light thrip injury |
| XPH 15515 | Asgrow | 111 | 2.86 | 46 | 51 | 6.72 | 6.89 | 3.07 | blue green heads, excellent wrapper leaves, some thrip injury very solid interior |
| XPH 15516 | Asgrow | 93 | 2.44 | 39 | 44 | 6.46 | 6.83 | 3.21 | light blue green, excellent wrapper leaves, round, no thrips |
| XPH 15519 | Asgrow | 93 | 2.20 | 35 | 40 | 5.79 | 6.62 | 2.86 | no wrapper leaves, round to flat, green heads, no thrips loose inside |
| CXB 93136 | Chrised | 111 | 3.07 | 49 | 55 | 8.06 | 6.14 | 3.11 | found to flat heads, no wrapper leaves, thrip injury, solid interior, blue green |
| XB 93256 | Chrised | 111 | 3.07 | 49 | 55 | 7.78 | 6.39 | 3.41 | blue green heads, flat, excellent wrapper leaves, no thrips |
| XPH 15511 | Asgrow | 93 | 2.21 | 35 | 40 | 6.79 | 6.17 | 3.50 | red lot of wrapper leaves, pointed heads, no thrips |
| XPH 15509 | Asgrow | 93 | 2.73 | 44 | 49 | 6.42 | 6.79 | 3.28 | blue green, excellent wrapper leaves, round to pointed, thick leaves, very tight inside |
| FMX 551 | Ferry-Morse | 93 | 2.67 | 43 | 48 | 6.71 | 6.71 | 2.38 | few wrapper leaves, a lot of thrip injury, blue green to green curly thick leaves, short core, found heads, tight |
| Fortress | Ferry-Morse | 93 | 2.59 | 41 | 47 | 6.28 | 7.50 | 3.54 | round to flat, dark blue green, excellent wrapper leaves, no thrip injury, core is extending |
| Augusta | Rogers | 93 | 2.57 | 41 | 46 | 6.67 | 6.75 | 3.17 | green heads, round heads, few wrapper leaves, light thrip injury |
| Pennant | Rogers | 111 | 3.31 | 53 | 60 | 7.61 | 6.58 | 3.06 | flat heads, no wrapper leaves, some thrip injury, loose inside |
| Quisto | Rogers | 111 | 3.07 | 49 | 55 | 7.11 | 6.63 | 3.48 | blue green, round heads, few wrapper leaves, light thrip injury, very solid inside, very nice!! |
| Cardinal | Harris Moran | 111 | 2.35 | 38 | 42 | 6.21 | 6.10 | 3.11 | red, round to flat heads, no thrip injury, long core |
| HMX 3226 | Harris Moran | 93 | 2.20 | 35 | 40 | 6.54 | 6.33 | 3.13 | blue green to green. no wrapper leaves, flat head, no thrips tight inside |
| Dynamo | Stokes | 93 | 1.76 | 28 | 32 | 6.00 | 5.39 | 2.06 | very small heads, green, very tight inside, round to pointed, excellent wrapper leaves |

* From Transplant
 Seeded: May 5, 1997
 Transplanted: June 18, 1997

This page intentionally blank.

Table 2:Cabbage Cultivar Trial 1997
Boose's Farm Inc.

| <i>Cultivar</i> | <i>Source</i> | * <i>Days To Harvest</i> | <i>Wt/head lbs</i> | <i>Wt/Crate 16 count lb</i> | <i>Wt/Crate 18 count lb</i> | <i>Head Height inches</i> | <i>Head Diameter inches</i> | <i>Core Length inches</i> | Comments |
|-----------------|---------------|-----------------------------|--------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|---|
| Ramada | Bejo | 73 | 3.49 | 56 | 63 | 6.00 | 5.67 | 2.83 | Good appearance, Good weight |
| Cheers | Takii | 73 | 2.85 | 46 | 51 | 5.33 | 6.00 | 2.67 | Good appearance, Good weight |
| Green Cup | Takii | 73 | 3.78 | 60 | 68 | 5.50 | 6.17 | 2.83 | good appearance fair weight, not real hard |
| Gloria Kid yr | Siegers | 73 | 4.32 | 69 | 78 | 5.83 | 7.33 | 2.33 | Average weight, fair appearance, flat head |
| Fresco F1 | Bejo | 73 | 4.04 | 65 | 73 | 6.50 | 6.50 | 2.50 | heavy heads, appearance good |
| Gideon | Bejo | 73 | 3.4 | 54 | 61 | 6.00 | 5.67 | 3.00 | very heavy, excellent appearance |
| Blue Thunder | Rispens | 73 | 3.73 | 60 | 67 | 6.17 | 6.25 | 2.67 | flat heads good weight good appearance |
| Blue Pak | Rispens | 73 | 3.4 | 54 | 61 | 6.00 | 5.75 | 2.50 | good weight good appearance |
| XPH 15514 | Asgrow | 73 | 3.54 | 57 | 64 | 5.50 | 6.42 | 3.00 | good weight good appearance |
| CXB 93136 | Chriseed | 73 | 3.72 | 60 | 67 | 6.00 | 6.50 | 3.00 | good appearance, fair weight |
| XB 93256 | Chriseed | 73 | 3.65 | 58 | 66 | 5.67 | 6.17 | 2.83 | very light weight, fair appearance |
| XPH 15511 | Asgrow | 73 | 2.88 | 46 | 52 | 5.83 | 5.25 | 3.00 | red, excellent weight, excellent appearance |
| XPH 15509 | Asgrow | 73 | 2.8 | 45 | 50 | 5.00 | 6.00 | 3.00 | very light weight, fair appearance |
| Fortress | Ferry-Morse | 73 | 1.86 | 30 | 33 | 4.83 | 5.17 | 2.50 | light weight, fair appearance |
| HMX 3226 | Harris Moran | 73 | 3.36 | 54 | 60 | 6.00 | 5.83 | 2.33 | heavy weight, fair appearance |

* From Transplant
Seeded: May 5, 1997
Transplanted: June 20, 1997
Harvested: September 3, 1997

This page intentionally blank.

This page intentionally blank.

This page intentionally blank.