

HORTICULTURE DEPARTMENT SERIES NO. 639

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CULTIVAR TRIALS FOR NORTHERN OHIO

LETTUCE & ENDIVE
GREEN ONION
STORAGE ONIONS
CELERY
CABBAGE
GREEN BEANS
SWEET CORN (SE ONLY)

RICHARD HASSELL, DANNY HALL, JOHN ELLIOTT AND KEN SCAIFE

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OARDC

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Rainfall (in inches) for the 1993 Growing Season

	Fremont	Wooster	Willard
April	3.93	3.74	3.25
May	.97	1.45	1.03
June	4.28	4.22	3.27
July	1.48	2.23	1.94
August	.64	.58	.87
September	2.06	3.96	3.45

Grower Farms Rainfall (in inches) for the 1993 Growing Season

	Michael	Boose
April	----	4.74
May	3.39	.75
June	5.56	4.40
July	9.82	1.70
August	3.14	.70
September	5.00	----

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LETTUCE AND ENDIVE CULTIVAR TRIAL 1993

All cultivars were first grown as transplants in the greenhouse for a four-week period before being moved to the field June 7th. Field plots consisted of three rows, 20 ft. long, 20 inches between rows, 10 inches between plants, four replications of each cultivar. Cultivars were evaluated based on the middle row only. Plots were irrigated after transplanting with a half-inch of water. Weather conditions were dry for most of the time of the evaluation, making conditions ideal for the trial. Plots were harvested mid-July. Results were as follows:

Green Leaf

There are no new promising cultivars to report at this time. Two new cultivars, Fan Fair and Hacienda, were evaluated, but both have a tendency to bolt quickly. The two cultivars still recommended are Slobolt and Tiarra.

Red Leaf

There are no new promising cultivars to report at this time. The cultivar of choice is New Red Fire. It is slow-bolting with upright growth and a shiny red color. However, this past year it seemed very susceptible to the Astro Yellow virus.

Green Boston

A promising new Boston cultivar, Ermosa, has proven to be worth grower trials. It is much like Esmeralda, but a darker green color and more outer foliage for head protection. The maturity is much the same as Esmeralda.

Romaine

Romaine cultivars are a big concern with consistency of size, weight and bolting. Results of the trial are as follows:

<u>Cultivar</u>	<u>Source</u>	<u>Head wt. (gms)</u>	<u>Head dia. (in)</u>	<u>Color</u>	<u>Comments</u>
Clemente	RS	743	30	light green	Has potential
Bautista	RS	719	28	light green	Has potential, some seeders
Tall Guzmaine	MR	810	30	medium green	Heavy, excellent size
Green Tower Imp	MR	718	26	medium green	Heavy and tall
PIC 318	MR	811	26	light green	<u>seeders</u>
XP5491	Asgrow	741	25	medium green	Short, seeders
Ideal Cos	Asgrow	614	34	medium green	Too light
Sunrise	Asgrow	686	27	red	Lot of interior breakdown
Cos King	Asgrow	703	28	dark green	Tall, looks nice
Zero	Asgrow	776	20	light green	Short and open, seeders
Darkland	MR	741	28	dark green	Short, some seeders

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Endive

There are no new promising cultivars to report at this time. Our main concern is tip burn. All cultivars tested exhibited some form of tip burn. Further testing is needed before any of the cultivars tested could be recommended over cultivars Salid King and Full Heart 65.

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GREEN ONION CULTIVAR TRIAL 1993

The green onion cultivar trial was conducted at the Muck Crops Branch-OSU, located at Willard, Ohio. Eight cultivars were evaluated for potential market value on muck soils.

Weather conditions were hot and dry throughout most of the growing season. Overhead irrigation was applied as needed. Onion thrips were extremely bad throughout the season, which hurt visual appearance only. The cultivar Ishikura seemed to hold up the best of all entries with a consistent uniform onion. However, this cultivar had a tendency to pull hard.

Green Onion Cultivar Trial, 1993

Cultivar	Source	10 ft. sample				Comments
		total no.	total wt.	marketable no.	marketable wt.	
Ishikura	MR	249	6.18	197	5.26	dark green, pull hard, <u>uniform</u> , long shank
White Spear	MR	253	6.47	186	5.25	dark green, pull easy, uniform, long shank
Parade	Seedway	269	5.49	216	4.44	dark green, pull easy, very uniform, thick shank
White Spear	Liberty	287	8.38	216	6.74	dark green, pull easy, poor stands, long shank
Toyko Long White	Liberty	275	3.38	223	2.74	poor stands!
HM 7083	HM	133	2.14	102	1.87	poor stands!
White Knight	Asgrow	145	4.89	120	4.17	bulb type, dark green
Emerald Isle	Asgrow	224	5.14	171	4.41	dark green, pulls easy, uniform, long shank

Seeded: May 27, 1993

Harvested: August 10, 1993

Plot Size: 3 rows, 20 ft. long, 16" between rows, seeding rate of 8 lb/acre

Source: MR-Martin Rispen; HM-Harris Moran

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STORAGE ONION CULTIVAR TRIAL 1993

The onion trial was conducted at the Muck Crops Branch-OSU in Willard, Ohio. Weather conditions were extremely dry throughout most of the growing season (6 inches below normal). Overhead irrigation was applied as needed to supplement for dry conditions. Both insect and disease pressure was low and harvest conditions were ideal.

Plots were 3 rows, 20 ft. long, 16 inches between rows, replicated three times. Seed per plot was precounted and seeded with a cane planter at a rate of four pounds per acre, seeded late April.

After grading, onion samples were placed in storage at the Stanbaugh Company until March, at which time onions will then be regraded.

Cultivars that looked the best overall in our trial were:

- | | |
|-------------------|----------------------|
| 1. Duration | 7. Spartan Banner 80 |
| 2. Daytona | 8. Athos |
| 3. Copra | 9. Burgos |
| 4. Citabel | 10. First Edition |
| 5. XPH-3802 | 11. MR-2140 |
| 6. Sweet Sandwich | 12. Norstar |

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DRY ONION CULTIVAR TRIAL
GRADE OUT: 10/4 & 10/6/93

Variety	Source	Dia. mm	Total ¹ wt.	Good No	Good ¹ wt.	B ¹ wt.	Cull ¹ wt.	Color 1=light 2=dark	Comments
Mercy	Martin Rispen	66	15.45	52	11.15	2.45	1.25	2.0	Red, uniform size
Mrco	Martin Rispen	65	14.65	49	9.82	2.85	1.33	5.0	Some rots
*Duration	Martin Rispen	63	13.15	45	9.70	2.47	.55	4.0	Nice, very uniform
MR-90H29	Martin Rispen	64	13.23	49	11.08	1.57	.33	3.3	Nice, large, no skin, soft
Pre-Pak	Martin Rispen	63	14.42	47	11.02	1.88	.98	3.7	Lot off types and rots
MR-9141	Martin Rispen	68	14.40	47	10.47	2.90	.70	4.3	Small, no skins
Comanche	Martin Rispen	64	15.03	54	11.47	2.95	.30	3.5	Small to medium
*Daytona	Seedway	64	14.67	49	9.68	3.42	.40	4.7	Nice, hard medium, uniform
*Copra	Seedway	65	12.57	44	10.05	1.80	.50	4.0	Large, nice
BGS-64	Seedway	67	14.30	48	10.78	2.12	1.22	3.2	Lot of small, not many good skins, lot of breakdown
Spirit	Seedway	64	12.87	48	10.53	1.87	.27	3.5	Medium, lot of small, off types, poor, rots
Suntan	Seedway	66	14.48	52	11.40	2.52	.25	2.8	Not bad, some off types
Beachmard	Asgrow	65	11.93	45	8.83	2.15	.70	3.8	Mainly smalls but nice
XPH-3724	Asgrow	65	14.47	49	9.85	3.30	.82	4.3	Off types

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Variety	Source	Dia. mm	Total ¹ wt.	Good No	Good ¹ wt.	B ¹ wt.	Cull ¹ wt.	Color 1=light 2=dark	Comments
XPH-3801	Asgrow	65	14.62	51	9.80	3.57	.85	3.5	"Small"
Blitz	Asgrow	63	12.38	42	9.28	2.63	.00	3.8	Off type, lot of smalls
Landmark	Asgrow	65	14.85	48	10.40	2.92	1.42	2.8	Real thin skin, lot of "B" size, small
*Citabel	Asgrow	69	16.18	45	13.37	.72	1.43	3.5	Big, lot of doubles, has potential
*XPH-3802	Asgrow	63	15.85	50	10.23	4.20	.87	4.0	Nice, large
*Sweet Sandwich	Asgrow	65	14.43	56	12.68	1.00	.55	3.6	Nice, large and small
*Sparton Banner 80	Asgrow	66	14.98	52	11.12	2.05	1.20	3.7	Nice, medium
Sassy Brassy	Ferry Morse	60	12.12	35	8.00	3.27	.33	3.8	Small, heavy skin
Columbia	Ferry Morse	61	14.97	48	10.28	3.92	.13	4.3	Small
Class Pak	Ferry Morse	68	14.62	51	12.08	1.98	.18	4.2	Nice, medium, hard, lot of small
*Athos	Vilmoran	70	13.80	52	11.37	1.48	1.77	3.2	Nice, medium size
*Burgos	Vilmoran	65	14.82	48	9.62	3.03	1.22	5.0	Large, medium, very solid, nice
FMX-44W4	Ferry Morse	68	15.52	55	12.05	2.55	.35	2.8	Nice, small
Peragon	Siegers	68	15.20	50	10.37	3.23	.95	4.5	Small, soft

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Variety	Source	Dia. mm	Total ¹ wt.	Good No	Good ¹ wt.	B ¹ wt.	Cull ¹ wt.	Color 1=light 2=dark	Comments
Extra	Siegers	67	16.75	54	12.88	2.82	.55	2.7	Lot of small
Lebacy	Siegers	62	16.47	50	10.33	4.32	.98	4.3	Decay, small, rots
Prestige	Siegers	63	13.65	47	9.63	3.32	.40	3.3	Small rots, not good, off types
Extra	Peto	60	12.72	47	12.27	2.07	.22	3.5	Small, poor stand
*First Edition	Peto	73	18.02	60	14.25	2.17	.87	3.3	Nice, large
XPH-90H5	Stambaugh	60	11.48	38	7.57	2.82	.65	4.5	Small size
8611	Takii	65	12.79	43	8.85	2.62	.83	4.3	Small & dark
*MR-2140	Martin Rispen	68	15.32	48	11.67	1.83	1.55	4.8	Large, hard, some doubles, nice
*Spartan Banner 80	Stambaugh	64	13.27	46	9.48	3.23	.33	3.5	Medium, nice skins
*Norstar	Stambaugh	63	12.18	41	8.40	2.52	1.45	3.3	Early, medium, soft
MR2138	Martin Rispen	68	13.98	52	11.40	1.75	.45	3.5	Lot of off types, small

¹Yields were based on a fifteen foot sample of the middle row. Replicated three times.

*Considered to be one of the top performing cultivars in the trial.

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CELERY CULTIVAR TRIAL 1993

The celery trial was conducted at the Muck Crops Branch-OSU and at Weier's Farm, Inc. located in Willard, Ohio. Transplants were first grown at the Muck Crops Branch-OSU for eight weeks before being field transplanted at the two locations.

During the growing season, weather was hot and dry. Controlled irrigation practices made the plots extremely uniform and the information gathered very valuable. Due to the weather conditions, fusarium pressure seemed a little on the light side, especially at the Weier's farm location. However, fusarium pressure was high enough at the Muck Crops Branch location to get the necessary tolerance information.

Field transplanting was done in early April in hopes of getting bolting information on each of the cultivars. However, weather conditions did not favor bolting and thus, only minimum bolting occurred.

Of the commercially available varieties tested (Wier's Farm, Inc.), five cultivars stand out as being acceptable: Picador, A863#72, PS285, Ponderosa. Of those five, the two entries from Peto Seed, 285 and Ponderosa, have the greatest potential due to uniformity and sizing ability they resemble the Florida 683 type of celery. **Caution should be taken in growing each of these cultivars.** PS285 has a tendency to be ten days to two weeks longer in maturing when cool, damp conditions occur. Ponderosa has only moderate fusarium tolerance and does best under cool weather. I would suggest growing this cultivar only in the spring.

Those entries in the research trial (Muck Crops Branch) both VTR and Pybas have a number of entries that show promise. The future of these is unknown at this time.

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CELERY TRIALS 1993
 TRANSPLANTED: April 29 & 30, 1993
 HARVESTED: July 30, 1993

Variety	Source	% Seeders	10 Plant Sample			Hort acceptable	Fusarium Race II	Comments
			Total Wt (kg)	Trimmed Wt (kg)	Diameter (in)			
PS285	Peto		14.97	8.36	33.15	4.71	1.50	
Ponderosa	Peto		11.78	7.88	39.25	4.51	3.00	
VTR 1063	VTR		12.11	7.99	32.88	3.55	3.30	
VTR 1096	VTR		NOT WORTH HARVESTING Due to Fusarium					
VTR 1325	VTR		NOT WORTH HARVESTING Due to Fusarium					
VTR 1330	VTR		10.92	5.75	21.03	1.00	3.75	
VTR-HYB-1653	VTR		13.85	7.32	32.93	4.50	2.13	not uniform
VTR-HYB-1701	VTR		14.45	8.45	29.90	4.75	1.75	not uniform
VTR-HYB-1724	VTR		9.08	6.48	31.30	2.71	4.33	
VTR-HYB-1726	VTR		11.62	6.81	36.06	1.75	2.13	
VTR-HYB-1753	VTR	45	15.60	6.98	32.10	3.94	3.75	very tall
VTR 1754	VTR		14.16	6.74	32.07	3.51	2.75	
VTR-HYB-1755	VTR		11.35	8.23	32.50	4.23	1.74	
VTR 1756	VTR	35	12.67	7.22	30.43	4.51	1.93	
VTR 1758	VTR		NOT WORTH HARVESTING Due to Fusarium					
Conquistador	MR		NOT WORTH HARVESTING Due to Fusarium					
Picador	MR		13.82	8.37	31.27	4.00	1.32	
Florida 683	MR		NOT WORTH HARVESTING Due to Fusarium					
A-863	MR		11.88	7.12	28.00	3.50	3.00	
Matador	MR		13.41	7.48	34.43	4.25	3.41	
Tall Utah 52-70HK	MR		9.14	6.14	29.90	1.32	2.45	
F128(4)B	MSU	03	9.17	5.47	28.20	2.17	2.12	
K108(3)2B	MSU		8.03	4.37	23.33	2.07	3.81	
K26-1B	MSU		NOT WORTH HARVESTING Due to Soft Rot Damage					
K128-B	MSU	15	11.89	6.77	27.87	2.17	3.07	
K128(3)-1B	MSU		8.41	5.89	23.12	1.75	3.11	
#3	Pybas		14.33	8.04	22.87	4.81	1.75	
#27	Pybas		12.94	6.49	32.53	3.51	3.14	

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Variety	Source	% Seeders	10 Plant Sample			Hort acceptable ¹	Fusarium Race II ²	Comments
			Total Wt (kg)	Trimmed Wt (kg)	Diameter (in)			
#37	Pybas		NOT WORTH HARVESTING Due to Fusarium					
#49	Pybas	60	13.14	7.94	23.40	3.50	3.47	
#56	Pybas	15	13.68	8.85	31.58	4.00	2.92	
#65	Pybas		16.46	7.98	34.57	4.12	3.01	
#66	Pybas		12.67	7.65	29.63	3.41	3.71	brittle
A863	Pybas		13.88	8.26	31.40	4.12	2.12	
#30	Pybas		11.72	7.68	32.50	3.91	2.92	
#57	Pybas	64	14.98	8.73	34.17	2.45	1.79	very loose
#59	Pybas		13.13	8.07	32.53	4.91	1.23	
#71	Pybas		NOT WORTH HARVESTING Due to Fusarium					
#72	Pybas		13.88	8.48	30.53	4.31	1.72	

¹Acceptable Rating: 1 = poor to 5 = excellent

²Fusarium Rating: 1 = none to 5 = dead

Plots consisted of two rows, 20-ft. long, 30 inches between rows, 6 inches between plants.

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CELERY TRIALS 1993 - Wiers Farms, Inc.
 TRANSPLANTED: April 28, 1993
 HARVESTED: July 22, 1993
 (1300 ft. single row--6 inches between plants)

Variety	Source	2 doz	2 1/2 doz	3 doz	4 doz	Hearts
A863	MR	23%	18%	40%	15%	4%
#59	Pybas	18%	17%	35%	17%	13%
#57	Pybas	32%	27%	21%	13%	7%
#30	Pybas	16%	27%	30%	13%	14%
Tall Utah 52-70HK	MR	27%	27%	30%	11%	5%
Matador	MR	20%	15%	43%	13%	9%
PS285	MR	33%	29%	28%	7%	3%
Picador	MR	23%	18%	35%	7%	17%
#71	Pybas	24%	12%	30%	9%	25%
Ponderosa	Peto	48%	30%	14%	7%	1%
Florida 683	MR	33%	22%	15%	6%	24%
#72	Pybas	37%	23%	21%	6%	13%
Conquestador	MR	38%	23%	17%	15%	7%

Percentages were based on crates packaged of each size.
 Yields were based on 2,350 plants per plot.
 Hearts consisted of both hearts and those unaccounted for.

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FRESH MARKET CABBAGE CULTIVAR TRIAL 1993

The cabbage trials were carried out at the vegetable research station located at Fremont, Ohio and Boose Farm, Inc. located at Norwalk, Ohio.

Plants were first grown as transplants for four weeks before planting in the field. Field transplanting was done on June 2, at a spacing of ten inches between plants and thirty-six inches between rows.

Growing conditions were less than desirable with dry, hot conditions throughout most of the growing season. At Boose Farm, no supplemental irrigation was applied. At Fremont, irrigation was applied when heads were forming only. Of the thirty-five entries, three cultivars proved to do well under these stressful conditions.

Greencup (Liberty Seed) - good wrapper leaves, round to pointed head, small core, excellent yielder in dry conditions. May lack weight.

Cheers (America Takii) - Heavy, good wrapper leaves, very uniform, excellent yields in dry conditions. May lack weight.

PS 63880 (Peto Seed) - Heavy and large heads, good wrapper leaves, excellent yielder in dry conditions, very uniform.

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Cultivar	Source	Har. date	10 Heads total wt. (kg)	Diameter		Core length (mm)	Comments
				width (cm)	height (cm)		
Blue Pak	FM	9/7	14.71	13.60	15.30	6.73	Solid round heads
Gourmet	FM	8/12	10.14	13.83	13.33	7.04	Loose head
Little Rock	FM	9/7	14.16	13.27	14.80	6.60	Solid very light
Gideon	SW	9/7	14.69	13.54	14.49	4.43	Solid pointed head
Sombrero	SW	9/7	12.01	12.23	15.00	7.07	Red, small, very loose head
*Mooris	SW	8/12	13.32	13.42	15.08	6.20	Very tight, uniform
*Cheers	LI	9/7	19.15	14.93	15.63	6.23	Loose head
Green Cub	LI	9/7	15.83	14.87	15.27	6.03	Tight round head
Charmant	LI	8/12	11.38	10.26	13.79	6.46	Light head
*Royal Vantage	LI	9/7	17.13	14.63	16.17	4.70	Short core, light head
*Blue Vantage	LI	9/7	18.34	15.07	15.67	5.60	Tight heavy, small core
Red Rookie	LI	9/7	13.17	13.17	14.73	6.33	Small loose head, red head
Puma	LI	8/12	10.16	12.13	13.75	4.25	Very light
Constanza	PE	9/7	12.39	13.00	14.03	6.90	Small pointed head
PSX286	PE	8/12	10.91	13.33	15.04	6.71	Some splitting, very light
Fortuna	PE	9/7	17.47	15.33	15.60	8.67	Loose, long core
FMX377	FM	8/12	8.73	11.92	13.42	5.96	Loose, suckers heads
Blue Gem	HM	9/7	13.55	14.17	14.83	6.07	Solid pointed head
*Cardinal	HM	9/7	13.11	13.40	15.23	6.87	Tight, red heads
Discovery	PE	8/12	11.92	14.21	14.92	8.42	Light, some splits
*Constanza	PE	9/7	16.28	14.63	14.57	8.17	Light round heads
*PS63880	PE	9/7	20.85	16.46	16.63	7.38	Very light, heavy nice heads
Fortuna	PE	9/7	17.41	14.80	14.87	8.67	Loose, long core
*PSX 286	PE	8/12	11.24	12.75	15.13	7.25	Very light
*Olympic	SE	9/7	18.64	15.43	15.03	9.28	Solid round
Pacifica	SE	8/2	10.93	13.42	15.21	5.96	Tight, green interior
Calvalier	SE	9/7	16.55	13.63	16.27	6.10	Solid pointed head
*Green Cup	SE	9/7	18.05	15.60	15.30	6.37	Round solid heavy head
*XPH 5906	AS	9/7	16.91	14.47	14.93	4.57	Tight, short core, solid head
XPH 5910	AS	9/7	10.67	11.53	13.73	6.90	Red, small heads
XPH5781	AS	9/7	18.67	15.50	14.73	8.03	Flat, long core, solid head

*Considered to be one of the top performing cultivars in the trial.

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GREEN BEAN CULTIVAR TRIAL 1993

The green bean trial was conducted at both the Hort Research Farm at Wooster and at Michael Farms, Urbana. Forty-six cultivars were evaluated in small research at the Hort Research Farm. These two row plots were twenty-five feet long, thirty-six inches between rows, replicated three times, seeded May 21. Twenty-one cultivars were evaluated on a much larger scale at Michael Farms, Inc. Plots consisted of four rows, 660 feet long, seeded June 8th. Weather conditions were less than desirable through the growing season. Spring brought periods of excess moisture, followed by a summer with little or no moisture.

Cultivars that looked the best in our trials were:

- | | |
|----------------|----------------|
| 1. Florence | 6. Matador |
| 2. Mirabella | 7. Bronco |
| 3. Jade | 8. Derby |
| 4. H732A-1-1-3 | 9. H8357-6-7-1 |
| 5. Mustang | 10. Mirada |

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GREEN BEAN VARIETY TRIALS - Hort Unit 1, Wooster

Variety	Source	Harvest date	Total wt. (kg 10 ft of row)	Bean wt. (kg 10 ft of row)	Market wt. (kg 10 ft of row)	Length 1 bean mm	Width 5 beans mm
*Florence	MR/Royal Sluis	7/26	5.15	2.44	1.57	135.4	45.33
*Mirabella	Martin-Rispens	7/26	5.19	2.73	1.65	123.8	45.83
*Jade	Johnny Seed/ Rogers NK	7/26	5.14	2.62	1.47	130.1	42.19
Earliserve	Liberty	7/26	2.63	1.36	.57	122.8	45.55
Opus	Asgrow	7/26	4.24	1.39	.83	122.1	46.24
Hialeah	Siegers/Morse	7/26	4.57	2.09	1.15	135.0	44.12
*H732A-1-1-3	Rogers NK	7/26	4.54	2.90	2.03	134.9	45.20
B0716-T2-1 (Pole Bean)	Rogers NK	7/26	4.66	1.97	1.01	146.8	57.37
Pod Squad	Asgrow	8/5	4.45	2.09	1.28	131.8	48.39
Impact (Yellow)	Asgrow	8/5	4.15	1.92	1.03	116.4	38.19
*Mustang	Asgrow	8/5	3.84	2.79	1.98	130.1	47.56
Tema	Asgrow	8/5	3.79	1.73	.77	121.1	47.56
*Matador	Asgrow	8/5	5.39	2.41	1.64	136.7	47.20
Gentry	Liberty	8/5	4.25	1.66	.88	124.7	47.06
Banquet	Asgrow	8/5	5.03	2.06	1.25	125.7	44.07
Brio	Asgrow	8/5	4.07	1.99	.65	132.7	47.49
*Bronco	Asgrow	8/5	3.74	2.77	1.87	123.5	44.63
XPB 244	Asgrow	8/5	3.44	1.69	.83	126.3	46.32
Orline1 (Yellow)	Vilmorin	8/5	3.83	1.91	.47	111.4	39.26
Gentry	Siegers	8/5	5.56	2.41	1.25	118.3	46.60
Astrel	Vilmorin	8/5	3.51	1.51	.39	115.9	37.04
Dorable (Yellow)	Vilmorin	8/5	4.56	2.12	.77	114.6	45.55
FM477	Ferry-Morse	8/5	4.73	2.11	.91	147.6	47.40
Labrador	Asgrow	8/5	5.27	2.23	1.21	137.5	50.55
HB324-1-2-3	Rogers NK	8/5	3.95	1.57	.07	104.5	38.31
Seville	Rogers NK/ Siegers	8/5	5.22	2.37	1.47	149.1	44.69
BK207-6-8-1	Rogers NK	8/5	4.53	2.41	.93	135.6	47.00
Teseo	Rogers NK	8/5	5.96	2.91	1.55	122.7	46.85
Strike	Asgrow	8/5	4.52	2.11	1.09	127.8	44.61
*Derby	Ferry Morse/ Siegers	8/5	3.72	2.66	1.96	135.4	53.92
Gentry	Liberty	8/5	4.18	1.83	1.16	144.6	49.29
Decibel	Vilmorin	8/5	2.38	.80	.14	129.7	35.52
*HB357-6-7-1	Rogers NK	8/5	4.40	2.15	2.12	131.6	48.84
Wrangler	Asgrow	8/5	4.99	2.15	1.25	124.2	48.67
*Mirada	Rogers NK	8/5	5.54	2.70	1.62	129.2	48.11
Sunre 9070	Rogers NK	8/5	2.72	1.31	.70	114.4	46.33
Toss	Asgrow	8/17	4.04	1.93	.57	101.37	40.15
Sentery	Asgrow	8/17	4.17	2.25	1.26	115.8	45.25
Allure	Asgrow	8/17	3.62	1.80	.62	126.7	39.55
Fleudro	Asgrow	8/17	3.46	1.80	.95	115.4	41.31
HB324-1-2-3	Rogers NK	8/17	4.00	1.80	.84	116.9	41.16
Laureat	Asgrow	8/17	4.89	2.34	.77	102.9	40.03
Tavera	Johnny Seet	8/17	NOT HARVESTED (no bean set)				
Finaud	Vilmorin	8/17	NOT HARVESTED (no bean set)				
Axel	Vilmorin	8/17	NOT HARVESTED (no bean set)				
Astrel	Vilmorin	8/17	NOT HARVESTED (no bean set)				

*Top yielding beans in trial

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MICHAEL FARMS GREEN BEAN TRIAL
(Seeded June 8, 1993)

Variety	Source	Harvest date	Bean length cm	Yield/ crates/ acre	Comments
Mirabella	MR	7/28	15.0	245	too light green
*Florence	MR	7/28	15.0	259	dark green, some future
Mirada	Rogers NK	7/28	11.0	280	very light green
XPB244	Asgrow	7/28	13.0	290	medium green, flat
Centry	Liberty	7/29	15.0	225	dark green, some future
Hialeai	FM	7/29	17.0	278	very light green
Seville	Rogers NK	7/29	14.0	162	light green
*HB357-6-7-1	Rogers NK	7/29	14.0	287	dark green, some future
*HB732A1-1-3	Rogers NK	7/29	15.0	278	dark green, some future
Derby	FM	7/29	15.5	259	light green, long & straight
*Bronco	Asgrow	7/31	12.5	221	dark green, curved
Mustang	Asgrow	7/31	13.5	193	dark green, lot of trash
Brio	Asgrow	7/31	13.5	224	light green, straight
Teseo	Rogers NK	7/31	12.5	238	medium green, straight
BX207-6-1-8-1	Rogers NK	7/31	13.5	190	dark green, some future
B0716-T2-1	Rogers NK	7/31	19.5	218	POLE BEAN
*Matador	Asgrow	7/31	13.0	280	dark green, straight, no trash
Sunce	Rogers NK	7/31	10.0	211	dark green, no length
Impact	Asgrow	7/31	13.0	211	yellow
Jade	Rogers NK	7/31	15.5	200	dark green, curved, lot of breakage
H732A1-1-3	Rogers NK	8/4	14.5	275	dark green, too late, lot of trash

*Has possible commercial future

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SE SWEET CORN CULTIVAR TRIAL 1993

The sweet corn trials were conducted at both the Vegetable Research Station at Fremont, Ohio and the Horticulture Unit 1 at Wooster, Ohio. Weather conditions were extremely dry throughout most of the growing season (6 inches below normal). The trial at Fremont received supplemental irrigation to insure against water stress. The trial at Wooster received no irrigation which resulted in plant stress. Yields and ear quality reflect this stress.

Row width was thirty-six inches between rows. Seeding was done with a cone-planter at a depth of two inches at a seeding rate large enough to insure an adequate plant stand. Plants were thinned to a spacing of nine to ten inches within rows. Cultivars that looked the best at both locations were:

WHITE

Early

Sugar Snow

Medium

Divinity
White Delight

Late

Argent

BICOLOR

Sweet Elite 152
Quickie
Seneca Dawn

Ambrosia
Fancy Full
Diamond & Gold

Senior
Calico Belle
Clock Work

YELLOW

Lytic
Spring Treat

Amaize
Legend

Tuxedo
GH 2759

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WHITE SWEET CORN SE VARIETY TRIALS - 1993

Variety	Source	Date Seeded		Date 100% Silk		Days to Maturity	
		Fremont	Wooster	Fremont	Wooster	Fremont	Wooster
Spring Snow	Siegers	5/26	5/21	7/15	7/26	69	75
Sugar Snow	Siegers/Liberty	5/26	5/21	7/15	7/22	72	75
Illumination	Liberty	5/26	5/21	7/22	7/23	76	81
White Delight	Rogers NK	5/26	5/21	7/22	7/23	76	81
Sweet Elite 181	Schlessman	5/26	5/21	7/27	7/29	76	81
Viva	Asgrow	5/26	5/21	7/27	7/26	76	81
Divinity	Siegers/Liberty	5/26	5/21	7/27	7/26	79	88
Argent	Liberty	5/26	5/21	7/19	7/29	83	88
WH 3443	Rogers NK	5/26	5/21	8/2	7/29	86	88

YELLOW SWEET CORN SE VARIETY TRIALS - 1993

Lyric	Liberty	5/26	5/21	7/15	7/15	70	75
Advantage	Liberty	5/26	5/21	7/15	7/15	70	81
GH 1737	Rogers NK	5/26	5/21	7/15	7/15	70	75
Sweet 644	Schlessman	5/26	5/21	7/15	7/19	70	75
Spring Treat	Siegers	5/26	5/21	7/15	7/19	70	81
45156	Burpee	5/26	5/21	7/22	7/19	72	81
Primero	MR/Siegers	5/26	5/21	7/22	7/23	73	81
Amaize	Liberty	5/26	5/21	7/22	7/23	73	81
Sweet Dawn	Harris-Moran	5/26	5/21	7/15	7/19	73	75
Legend	Harris-Moran	5/26	5/21	7/22	7/23	73	75
Kandy King	Rogers NK	5/26	5/21	7/22	7/23	78	81
Sweet 731	Schlessman	5/26	5/21	7/22	7/15	73	81
Chief Ounry	Siegers/Liberty	5/26	5/21	7/22	7/26	73	81
Champ	Asgrow	5/26	5/21	7/22	7/23	73	81
Melody	Asgrow	5/26	5/21	7/27	7/29	73	88
Sweet Elite 137	Schlessman	5/26	5/21	7/27	7/23	76	81
Tuxedo	Siegers	5/26	5/21	7/27	7/26	77	88
XPH 3013	Asgrow	5/26	5/21	7/27	7/29	78	88
Merlin	Liberty	5/26	5/21	7/27	7/29	80	88
Suger Ace	Harris-Moran	5/26	5/21	7/29	7/29	80	88
GH 2759	Harris-Moran	5/26	5/21	7/27	7/29	83	88
Tender Delight	Rogers NK	5/26	5/21	7/29	7/29	86	90

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BI-COLOR SWEET CORN SE VARIETY TRIALS - 1993

Variety	Source	Date Seeded		Date 100% Silk		Days to Maturity	
		Fremont	Wooster	Fremont	Wooster	Fremont	Wooster
Quickie	Johnny's	5/26	5/27	7/12	7/15	65	70
D'Artagnon	Liberty	5/26	5/21	7/19	7/19	69	75
Sweet Elite 152	Schlessman	5/26	5/21	7/22	7/19	69	75
Sweet Elite 156	Schlessman	5/26	5/21	7/27	7/23	72	81
BC 2851	Rogers NK	5/26	5/21	7/19	7/19	72	75
Athos	Liberty	5/26	5/21	7/19	7/15	72	75
Seneca Dawn	Siegers	5/26	5/21	7/19	7/19	72	75
Ambrosia	Liberty	5/26	5/21	7/27	7/23	76	81
Seneca Brave	Liberty	5/26	5/21	7/11	7/23	76	81
Double Germ	Liberty	5/26	5/21	7/27	7/23	76	75
Fancy Full	Liberty	5/26	5/21	7/22	7/23	76	81
Diamond & Gold	Rogers NK	5/26	5/21	7/27	7/29	76	88
Gemini	Siegers	5/26	5/21	7/22	7/23	76	81
Clock Work	Johnny's	5/26	5/21	7/27	7/23	79	81
Lancelot	Siegers	5/26	5/21	7/29	7/26	79	88
Delectable	Liberty	5/26	5/21	7/27	7/26	79	88
Calico Belle	Asgrow	5/26	5/21	7/27	7/29	79	88
Sensor	Asgrow	5/26	5/21	7/19	7/19	83	88

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WHITE SE SWEET CORN TRIALS - 1993

Variety	Source	Plant height (in)	Height to base of ear (in)	Crates ^s /acre		Ear dia. (mm)	Ear lgth. (in)	Ear fill ¹	Tip cover ²	Comments
				Fremont ^s	Wooster ^s					
Spring Snow	Siegers	63	14	283	272	35.0	8.0	1	1	medium pull, long ear leaves, bland taste
Sugar Snow	Siegers/Liberty	60	12	295	292	36.0	8.2	1	1	hard to pull, very sweet, good looking husk
Illumination	Liberty	68	17	249	208	33.0	8.5	1	1	hard to pull, lot of suckers, very sweet
White Delight	Rogers NK	69	19	266	232	31.0	8.4	1	2	medium pull, very uniform, good sweetness
Sweet Elite 181	Schlessman	86	25	253	268	37.0	8.4	1	1	hard pull, some smut, not uniform, good sweetness
Viva	Asgrow	73	25	233	194	37.0	8.1	1	1	Loose husk, medium pull, very sweet
Divinity	Siegers/Liberty	71	19	333	288	39.0	9.1	1	1	some smut, nice looking, very sweet
Argent	Liberty	81	18	377	256	39.0	8.9	1	1	some smut, high yield, long shank, very sweet
WH 3443	Rogers NK	90	34	284	185	35.5	8.3	2	4	bird damage, easy pull, not sweet, nice looking

YELLOW SE SWEET CORN TRIALS - 1993

Lyric	Liberty	56	12	288	183	35.0	6.0	1	1	medium pull, very sweet, attractive husk
Advantage	Liberty	67	19	260	183	35.0	6.1	2	4	medium pull, big kernels, attractive husk
GH 1737	Rogers NK	63	16	279	206	34.5	6.7	3	3	medium pull, medium sweet, looks good
Sweet 644	Schlessman	62	15	285	220	35.5	7.7	2	2	easy pull, long shank, very sweet
Spring Treat	Siegers	65	20	292	210	37.0	7.1	1	2	hard pull, not sweet!
45156	Burpee	72	19	268	143	38.0	9.8	1	1	easy pull, uneven rows, not sweet
Primero	MR/Siegers	82	28	322	222	36.0	7.9	1	3	medium pull, bird damage, medium sweet, uniform harvest
Amaize	Liberty	80	16	357	286	36.5	7.9	1	3	medium pull, looks nice, medium sweet
Sweet Dawn	Harris-Moran	68	16	268	194	35.5	7.9	1	3	easy pull, very sweet, high bird damage, looks good
Legend	Harris-Moran	70	16	294	164	36.5	7.1	1	1	easy pull, very sweet, uniform
Kandy King	Rogers NK	77	20	294	202	37.0	8.1	2	3	medium pull, very sweet, nice looking
Sweet 731	Schlessman	69	14	275	190	34.5	7.1	1	2	hard to pull, uneven maturity, medium sweet
Chief Ounry	Siegers/Liberty	80	20	251	167	35.5	7.7	1	3	medium pull, very nice looking, average sweetness
Champ	Asgrow	68	17	259	153	35.8	7.1	1	1	pulls easy, excellent flavor, uniform
Melody	Asgrow	77	17	285	173	34.0	8.2	2	3	easy pull, loose husk, not sweet
Tuxedo	Siegers	86	24	340	251	35.5	8.0	2	4	medium pull, nice looking, average sweetness
Sweet Elite 137	Schlessman	82	24	233	237	38.5	7.8	1	3	easy pull, not uniform, not sweet
XPH 3013	Asgrow	78	27	279	184	34.5	7.9	2	4	hard pull, average sweetness
Merlin	Liberty	83	25	311	138	34.0	8.3	1	1	easy pull, very sweet, nice looking
Sugar Ace	Harris-Moran	87	30	320	131	35.0	7.2	2	2	hard pull, big kernels, light husk, very sweet
GH 2759	Harris-Moran	90	31	389	217	35.5	8.0	2	4	below average sweetness, medium pull, not uniform
Tender Delight	Rogers NK	78	29	275	225	36.0	8.0	2	4	Average sweetness, medium pull, uniform

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BI-COLOR SE SWEET CORN TRIALS - 1993

Variety	Source	Plant height (in)	Height to base of ear (in)	Crates/acre		Ear dia. (mm)	Ear lgth. (in)	Ear fill ¹	Tip cover ²	Comments
				Fremont	Wooster					
Quickie	Johnny's	54	12	310	210	34	9.6	1	1	easy pull, very sweet, short plant hard to harvest
D'Artagnon	Liberty	64	20	263	120	34	8.0	1	1	medium pull, very sweet, very uniform
Sweet Elite 152	Schlessman	63	13	307	199	34	8.0	1	1	easy pull, long ears, very sweet
Sweet Elite 156	Schlessman	66	20	246	171	37	8.7	3	1	easy pull, very sweet, attractive husk
BC 2851	Rogers NK	70	19	282	177	35	7.7	1	4	hard to pull, big kernels, bird damage, not sweet
Athos	Liberty	70	14	235	128	39	8.0	1	1	medium pull; fairly sweet, not uniform
Seneca Dawn	Siegers	72	24	307	173	35	9.2	1	1	hard to pull, very sweet, nice looking
Ambrosia	Liberty	68	22	324	268	35	8.8	3	2	easy pull, very uniform, very sweet
Seneca Brave	Liberty	74	24	284	223	37	9.6	1	4	easy pull, heavy bird damage, below sweetness
Double Germ	Liberty	77	18	249	137	36	10.0	1	1	easy pull, very sweet, uniform
Fancy Full	Liberty	76	24	320	171	34	8.5	1	1	hard to pull, good looking husk, very sweet
Diamond & Gold	Rogers NK	67	23	298	164	34	7.8	1	1	easy pull, average sweetness, looks good.
Gemini	Siegers	67	22	197	135	36	7.6	3	1	medium pull, good sweetness, poor stand
Clock Work	Johnny's	80	24	301	189	38	9.4	1	1	hard pull, average sweetness
Lancelot	Siegers	77	24	298	184	35	9.3	3	3	easy pull, uniform, very sweet
Delectable	Liberty	75	21	249	201	34	7.1	1	3	medium pull, long shank, average sweet
Calico Belle	Asgrow	92	28	343	247	35	7.4	2	3	medium pull, not real sweet
Sensor	Asgrow	78	28	364	267	35	8.1	2	5	medium pull, bird damage, average sweetness

¹Ear Fill: 1 = full; 5 = incomplete

²Tip Cover: 1 = excellent; 5 = poor

³Fremont received irrigation as needed

⁴Wooster received no irrigation

⁵Crates/acre: 6 dozen ears per crate

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