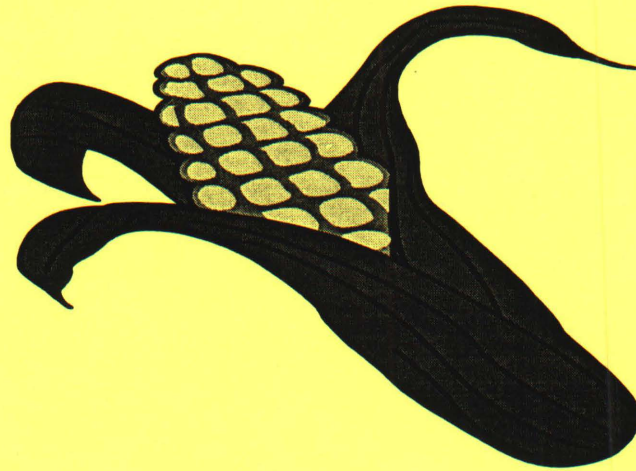


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# SWEET CORN CULTIVAR EVALUATIONS-1996



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## ACKNOWLEDGEMENT

The 1996 Sweet Corn Cultivar Trial was sponsored by the Ohio Vegetable and Small Fruit Research Check-off Program.

Thanks to Ken Scaife, Manager-Vegetable Crops Branch and Shawn Mueller, technician, John Elliott, Manager-Horticulture and Crop Science Farm, and Bruce Williams, technician. Also, thanks to Steve Brenneman and Cindy Wallace for their help in coordinating data.

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Table 1. Environmental factors at each of the research facilities

Fremont	Rain long term		Air Temperature (avg)			Long Term (avg)			Humidity (avg)		
	in	avg	min	max	avg	min	max	avg	min	max	avg
April	4.08	3.39	33.9	56.3	45.1	0	0	48.5	41	94	98
May	4.14	3.59	46.7	66.5	56.6	0	0	59.4	52	98	76
June	4.29	3.99	61.0	80.7	70.8	0	0	69.1	55	97	76
July	4.82	3.90	58.6	81.6	70.1	0	0	72.9	44	100	72
August	0.03	3.36	57.1	83.1	70.1	0	0	70.8	49	100	75
September	4.35	3.07	50.5	73.4	61.9	0	0	63.8	52	97	75
October	2.16	0.00	0.0	0.0	0.0	0	0	0.0	54	100	77

**Wooster**

April	4.89	3.35	29.7	66.7	47.4	42.9	54.4	48.1	46	93	73
May	4.50	3.90	41.5	79.0	58.2	54.0	63.7	58.6	47	93	77
June	5.01	3.95	59.6	81.0	70.3	63.6	71.0	67.5	66	89	80
July	3.69	4.12	62.2	76.7	70.2	69.7	72.6	71.5	61	88	73
August	1.82	3.65	64.4	80.4	70.9	68.0	71.8	69.9	69	86	76
September	5.08	3.16	54.3	73.7	63.0	56.8	68.1	63.4	70	86	80
October	2.42	2.35	38.5	64.9	52.7	46.4	57.4	52.1	56	96	78

**Sweet Corn Cultivar Trial, 1996**  
**Richard Hassell and Cindy Wallace**  
**Horticulture and Crop Science, OARDC/OSU**

The sweet corn trial was conducted at two locations: Fremont (Vegetable Crops Branch) and Wooster (Hort Unit 1), Ohio. Both locations are part of the OARDC/OSU research facilities. Ninety-eight cultivars were evaluated, 44 SE types and 54 SH<sub>2</sub> types. The SE's were located at Fremont and the SH<sub>2</sub>'s were at Wooster. All entries were replicated four times in a randomized complete block design.

**Cultural Information**

Soil types at the two locations varied. Fremont soils are a sandy loam and Wooster soils are a clay loam. Fertilizer applications were made in accordance with soil test results. When the plants reached six inches in height, the plots were sidedressed with 30 units of nitrogen/A. Corn was seeded using a two-row cone seeder delivering a seed every four to five inches. Plots were then thinned to one plant every 8 to 10 inches. plots consisted of two rows, 30 feet long. Irrigation was applied as needed at both locations. Insecticides were applied as needed. All other cultural practices were followed in accordance with standard practices.

**Data Collection**

Data collection was done by hand and graded with the help of at least 7 individuals at each location. Pericarp firmness: Recorded using a Cadet Digital Force Gauge with a 3 mm probe. Pericarp punches were made on the middle section of three ears, five punches per ear.

Sugars Content: Twelve ears were taken from each of two replications at harvest and places in a refrigerated cooler (42°F) for 24 hours (treatment 1) and 6 days (treatment 2). Husks were then removed and six ears were cleaned. Samples from the center section of each ear were submerged in liquid nitrogen, kernels removed and kept in the freezer until needed. Samples were then freeze-dried and ground to a powder then analyzed for sugar content using a modified antron method by Clegg.

**Growing Conditions**

The season started out wet and cool. Soil temperatures were below normal and soil moisture was excessive. During the season, conditions improved and growing conditions were excellent. Temperatures were below normal with low humidity. Weed control was excellent and insect and disease pressure was light. Sweet corn plants were never under stress which resulted in excellent yields.

**ACKNOWLEDGEMENT**

The 1996 Sweet Corn Cultivar Trial was sponsored by the Ohio Vegetable and Small Fruit Research Check-off Program.

Thanks to Ken Scaife, Manager-Vegetable Crops Branch and Sean Mueller, technician, John Elliott, Manager-Horticulture and Crop Science Farm, and Bruce Williams, technician. Also, thanks to Steve Brenneman and Cindy Wallace for their help in coordinating data.

Table 1a. Percent seed germination of white and yellow sugar-enhanced (SE) corn at varying temperatures after five days.

Cultivar	Source	Seeds/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>WHITE</b>										
Argent	Crookham	2878	56	76	88	96	100	100	100	100
XPH 3113	Asgrow	5965	36	92	84	92	100	100	100	100
XPH 3114	Asgrow	2334	16	40	68	88	80	100	100	100
Fantasia	Asgrow	2715	4	32	60	44	68	84	84	100
Silverado	Harris-Moran	1752	16	4	8	36	88	96	92	100
Silver Queen	Rogers	1834	0	8	32	48	72	96	100	100
Sweet Ice	Harris-Moran	3886	44	96	88	88	96	100	100	100
Imaculata	Rispens	2660	48	60	80	72	80	88	100	96
Spring Snow	Rispens	3632	36	76	84	96	96	96	96	96
Avalanche	Rispens	3696	0	40	84	84	92	100	100	100
Sugar Snow II	Rispens	3550	12	64	88	92	92	92	96	96
<b>YELLOW</b>										
Incredible	Crookham	3387	36	80	92	96	96	100	100	100
Bodacious	Crookham	3051	72	92	100	100	100	100	100	100
Casino	Asgrow	3024	40	76	88	100	100	100	100	100
Advantage	Liberty	1798	0	24	64	80	96	100	96	96
Gold Nuggets	Rupp	2334	0	28	64	88	96	100	100	100
Sugar Buns	Harris-Moran	2969	4	44	76	92	96	92	100	100
HMX 4340	Harris-Moran	2070	0	8	4	48	76	88	96	88
Seneca Daybreak	Siegers	2034	0	0	12	68	96	92	92	100
Kandy King	Siegers	2152	0	0	28	64	96	92	96	96
Sugar Ace F1	Harris-Moran	1861	0	36	60	84	84	100	100	100
Amaize	Crookham	2660	80	84	92	96	100	100	100	100
Merlin	Rispens	3369	36	60	68	72	96	96	96	100

Table 1b. Percent seed germination of bicolor sugar-enhanced (SE) corn at varying temperatures after five days.

Cutliver	Source	Seeds/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>BICOLOR</b>										
Double Gem	Johnny's	2624	0	16	36	84	84	100	96	96
Pilot	Johnny's	1426	0	0	20	56	52	96	96	100
Dancer	Johnny's	2433	8	60	64	100	96	96	100	100
Athos	Crookham	2007	8	36	64	72	84	100	100	96
D'Artaagnan	Crookham	2025	0	8	36	92	92	80	96	96
Ambrosia	Crookham	2443	0	0	84	84	92	100	88	100
Delectable	Crookham	2515	56	68	60	84	84	100	96	100
Tecumseh II	Stokes	4776	56	52	84	92	84	88	72	84
XPH 3130	Asgrow	1816	--	--	--	--	--	--	--	--
XPH 3086	Asgrow	1807	--	--	--	--	--	--	--	--
Coronet	Asgrow	2624	0	20	48	92	80	80	80	92
Polo R	Asgrow	2388	4	40	72	92	96	100	100	100
Temptation	Asgrow	2515	8	4	92	84	92	96	96	96
Double Gem	Siegers	2751	0	0	72	76	96	96	96	100
Precious Gem	Sieger	2061	0	32	28	64	88	100	96	100
Delectable	Siegers	3296	0	52	40	100	100	100	100	100
Double Gem	Harris-Moran	2715	0	52	48	88	96	100	88	92
Summer Delicious	Liberty	2915	0	4	52	72	92	100	100	100
HMX 3370	Harris-Moran	1625	0	0	16	52	28	72	84	92
Sweet Rhythm	Harris-Moran	3568	12	52	64	72	80	96	96	96
Sweet Symphony	Harris-Moran	2561	4	16	32	48	48	96	100	100



Table 2a. Percent seed germination of White and Yellow sugar-enhanced (SE) corn at varying temperatures after seven days.

Cutlivar	Source	Seeds/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>WHITE</b>										
Argent	Crookham	2878	84	84	100	100	100	100	100	100
XPH 3113	Asgrow	5965	88	100	92	100	100	100	100	100
XPH 3114	Asgrow	2334	40	68	84	88	96	100	100	100
Fantasia	Asgrow	2715	20	44	72	68	88	100	96	100
Silverado	Harris-Moran	1752	28	4	40	64	96	100	100	100
Silver Queen	Rogers	1834	12	44	64	96	88	96	100	100
Sweet Ice	Harris-Moran	3886	56	100	100	100	100	100	100	100
Imaculata	Rispens	2660	76	72	92	92	100	96	100	96
Spring Snow	Rispens	3632	72	84	96	96	100	100	100	100
Avalanche	Rispens	3696	32	84	88	92	96	100	100	100
Sugar Snow II	Rispens	3550	28	84	92	96	92	96	96	96
<b>YELLOW</b>										
Incredible	Crookham	3387	72	96	100	100	100	100	100	100
Bodacious	Crookham	3051	76	100	100	100	100	100	100	100
Casino	Asgrow	3024	60	88	96	100	100	100	100	100
Advantage	Liberty	1798	24	52	100	100	100	100	100	96
Gold Nuggets	Rupp	2334	4	40	100	100	100	100	100	100
Sugar Buns	Harris-Moran	2969	8	72	100	100	100	96	100	100
HMX 4340	Harris-Moran	2070	4	8	24	80	84	92	100	92
Seneca Daybreak	Siegers	2034	0	24	64	84	100	96	92	100
Kandy King	Siegers	2152	4	4	76	88	100	100	96	96
Sugar Ace F1	Harris-Moran	1861	12	88	96	100	100	100	100	100
Amaize	Crookham	2660	84	96	100	100	100	100	100	100
Merlin	Rispens	3369	48	68	92	92	100	100	100	100

Table 2b. Percent seed germination of Bicolor sugar-enhanced (SE) corn at varying temperatures after seven days.

Cultivar	Source	Seeds/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>BICOLOR</b>										
Double Gem	Johnny's	2624	0	24	44	100	84	100	96	96
Pilot	Johnny's	1426	0	24	56	92	100	100	100	100
Dancer	Johnny's	2433	28	88	96	100	96	96	100	100
Ahtos	Crookham	2007	40	80	92	92	100	100	100	96
D'Artagnan	Crookham	2025	32	68	88	96	96	80	96	96
Ambrosia	Crookham	2443	13	40	100	100	100	100	96	100
Delectable	Crookham	2515	84	88	96	100	96	100	96	100
Tecumseh II	Stokes	4776	72	64	84	92	88	88	72	84
XPH 3130	Asgrow	1816	--	--	--	--	--	--	--	--
XPH 3086	Asgrow	1807	--	--	--	--	--	--	--	--
Coronet	Asgrow	2624	28	36	72	100	84	92	84	92
Polo R	Asgrow	2388	36	64	84	96	100	100	100	100
Temptation	Asgrow	2515	16	44	100	96	100	100	100	96
Double Gem	Siegers	2751	4	28	96	80	96	100	96	100
Precious Gem	Siegers	2061	20	72	84	88	100	100	96	100
Delectable	Siegers	3296	48	88	84	100	100	100	100	100
Double Gem	Harris-Moran	2715	16	96	96	96	100	100	88	92
Summer Delicious	Liberty	2915	16	52	88	92	96	100	100	100
HMX 3370	Harris-Moran	1625	0	16	48	76	100	96	100	100
Sweet Rhythm	Harris-Moran	3568	72	100	92	96	92	100	96	96
Sweet Symphony	Harris-Moran	2561	24	40	76	88	92	100	100	100

Table 3a. Percent seed germination of white and yellow SH2 sweet corn seeds at varying temperatures after five days.

Cultivar	Source	Seed/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>WHITE</b>										
Nova 6464 omr	Illinois Found.	3114	20	56	76	88	92	100	100	96
WSS-9748	Rogers	3877	40	48	92	96	100	100	100	92
XPH 3103	Asgrow	3694	8	52	52	68	72	80	92	96
FMX 413	Ferry Morse	3759	36	80	92	92	92	92	100	100
FMX 414	Ferry Morse	3859	12	56	48	76	76	92	92	88
Sweet Magic	Harris-Moran	3414	52	80	92	88	100	92	96	100
Silver Dollar	Harris-Moran	4395	36	36	56	40	68	68	68	80
Snowmass	Rogers	2869	0	0	20	44	52	64	96	96
Snowbird	Rogers	2906	8	8	16	52	80	92	92	100
7101-W	Abbott & Cobb	4195	0	12	64	92	96	96	100	100
8101-W	Abbott & Cobb	4467	16	84	92	96	92	100	88	100
<b>YELLOW</b>										
XPH 3105	Asgrow	3440	--	--	--	--	--	--	--	--
Daystar	Harris-Moran	2824	64	92	96	88	92	100	100	100
Colossal	Stokes	3532	48	96	100	100	96	100	100	88
Punchline	Asgrow	4168	20	68	84	100	92	100	96	96
Zenith	Harris-Moran	5085	80	76	68	88	84	100	100	96
Maxim	Harris-Moran	3841	0	20	32	56	96	88	96	96
Victor FMX 329	Ferry-Morse	3859	32	76	80	92	96	88	96	100
FMX 412	Ferry-Morse	4050	48	92	84	84	92	100	96	96
Fortune	Siegers	4440	44	76	60	68	88	92	92	96
GSS-6394	Rogers	2806	36	36	36	84	92	92	96	100
GSS-7887	Rogers	3587	16	68	96	84	100	96	96	96
Primetime	Rogers	3459	12	60	96	88	88	100	100	100
710A	Liberty	4077	4	96	100	100	100	100	100	100
7710-W	Abbott & Cobb	4331	56	72	84	96	96	96	100	100
Bandit	Harris-Moran	3480	12	24	48	64	60	88	84	88

Table 3b. Percent seed germination of bicolor SH2 sweet corn seeds at varying temperatures after five days.

Cultivar	Source	Seed/lb	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>BICOLOR</b>										
Jumpstart	Rispens	3160	36	96	100	96	100	100	100	100
Headliner	Crookham	3650	88	84	100	96	96	100	92	96
Phenomenal	Crookham	2869	8	16	64	84	88	96	96	100
XPH 3129	Asgrow	3022	--	--	--	--	--	--	--	--
Eagle	Johnny's	2897	0	32	64	84	100	96	96	100
Tartan	Johnny's	3505	0	32	96	100	100	100	100	100
Everprime	Johnny's	3432	60	64	100	92	100	96	96	100
JCO 8595	Johnny's	3187	0	56	88	96	100	100	100	100
Colossal	Stokes	3396	44	48	88	92	100	96	100	92
Starpak	Seedway	3242	0	0	0	28	68	64	64	88
Starship	Seedway	3251	84	88	100	100	100	96	100	100
Everprime	Illinois Found.	3467	0	68	68	100	96	92	92	96
Headliner	Illinois Found.	3641	20	96	92	96	96	88	100	100
Hybrid 323	Ferry-Morse	3106	40	60	76	84	96	100	92	88
Candystore	Harris-Moran	2897	0	0	52	80	80	88	92	88
Confection	Harris-Moran	4204	52	60	84	80	88	88	88	96
HMX 3364 BS	Harris-Moran	3341	0	24	64	64	80	96	96	96
HMX 3365 BS	Harris-Moran	4286	44	56	60	76	88	96	88	84
Diablo	Ferry-Morse	3559	4	48	76	96	96	92	88	96
A-Maizingly	Ferry-Morse	3833	8	36	68	88	92	100	96	88
FMX 400	Ferry-Morse	3378	24	64	96	100	100	100	100	100
Quest	Liberty	3232	40	56	72	76	84	88	100	92
Quest	Rogers	3705	0	50	72	92	96	100	100	96
BSS-1609	Rogers	3278	72	72	92	96	100	96	100	100
BSS-4340	Rogers	4022	32	44	92	92	96	92	100	100
Seneca Appoloosa	Siegers	4440	80	92	92	100	96	100	100	100
Majesty	Siegers	3323	36	84	88	96	100	100	100	100
Montecarlo	Rispens/Rogers	3605	4	4	24	76	80	92	100	100

Table 4a. Percent seed germination of white and yellow SH2 sweet corn seeds at varying temperatures after seven days.

Cultivar	Source	Seeds/lb	Degrees F							
			50-63	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>WHITE</b>										
Nova 6564 omr	Illinois Found.	3114	40	72	92	88	92	100	100	96
WSS-9748	Rogers	3877	60	68	96	100	100	100	100	92
XPH 3103	Asgrow	3694	12	56	72	76	76	88	92	100
FMX 413	Ferry Morse	3759	60	84	92	96	92	96	100	100
FMX 414	Ferry Morse	3859	40	68	60	80	76	92	92	92
Sweet Magic	Harris-Moran	3414	60	92	96	92	100	96	96	100
Silver Dollar	Harris-Moran	4395	44	40	60	44	68	72	68	80
Snowmass	Rogers	2869	0	24	76	80	96	96	96	96
Snowbird	Rogers	2906	12	44	74	84	100	96	100	100
7101-W	Abbott & Cobb	4195	44	60	96	100	96	100	100	100
8101-W	Abbott & Cobb	4467	36	92	96	96	100	100	88	100
<b>YELLOW</b>										
XPH 3105	Asgrow	3440	--	--	--	--	--	--	--	--
Daystar	Harris Moran	2824	96	100	96	88	92	100	100	100
Colossal	Stokes	3532	88	100	100	100	96	100	100	88
Punchline	Asgrow	4168	60	80	84	100	96	100	96	96
Zenith	Harris-Moran	5085	88	80	80	88	84	100	100	96
Maxim	Harris-Moran	3841	4	72	92	96	100	100	100	96
Victor FMX 329	Ferry Morse	3859	72	88	92	100	96	100	96	100
FMX 412	Ferry Morse	4050	80	92	92	84	96	100	96	96
Fortune	Siegers	4440	52	76	76	76	92	92	92	96
GSS-6394	Rogers	2806	36	68	64	92	100	92	100	100
GSS-7887	Rogers	3587	62	72	100	92	100	100	96	96
Primetime	Rogers	3459	60	80	96	92	96	100	100	100
710A	Liberty	4077	36	96	100	100	100	100	100	100
7710-W	Abbott & Cobb	4331	72	84	88	96	100	100	100	100
Bandit	Harris-Moran	3480	12	40	48	68	76	96	92	94

Table 4b. Percent seed germination of Bicolor SH2 sweet corn seeds at varying temperatures after seven days

Cultivar	Source	Seeds/lbs	Degrees F							
			50-53	53-57	57-60	60-64	64-68	68-72	72-75	75-80
<b>BICOLOR</b>										
Jumpstart	Rispens	3160	48	100	100	100	100	100	100	100
Headliner	Crookham	3650	92	88	100	96	100	100	92	96
Phenomenal	Crookham	2869	32	40	76	96	88	96	96	100
XPH 3129	Asgrow	3022	--	--	--	--	--	--	--	--
Eagle	Johnny's	2897	20	88	96	88	100	96	96	100
Tartan	Johnny's	3505	20	64	96	100	100	100	100	100
Everprime	Johnny's	3432	72	80	100	92	100	96	96	100
JCO 8595	Johnny's	3187	60	68	92	100	100	100	100	100
Colossal	Stokes	3396	68	76	88	96	100	96	100	92
Starpak	Seedway	3242	0	8	40	56	68	80	76	88
Starship	Seedway	3251	84	88	100	100	100	96	100	100
Everprime	Illinois Found.	3467	56	100	68	100	96	92	96	96
Headliner	Illinois Found.	3641	54	96	100	96	100	96	100	100
Hybrid 323	Ferry-Morse	3105	64	80	92	92	96	100	92	88
Candystore	Harris Moran	2897	12	32	88	84	80	88	92	88
Confection	Harris Moran	4204	64	72	84	92	88	92	88	96
HMX 3364 BS	Harris Moran	3341	24	52	72	84	100	100	96	96
HMX 3365 BS	Harris Moran	4286	48	76	72	80	92	96	88	84
Diablo	Ferry-Morse	3559	24	56	88	96	96	92	88	96
A-maizingly	Ferry-Morse	3833	48	64	84	88	92	100	96	88
FMX 400	Ferry-Morse	3378	60	72	100	100	100	100	100	100
Quest	Liberty	3232	40	56	76	88	84	88	100	92
Quest	Rogers	3705	0	84	88	96	96	100	100	96
BSS-1609	Rogers	3278	84	92	92	96	100	96	100	100
BSS-4340	Rogers	4022	72	86	96	96	96	92	100	100
Seneca Appoloosa	Siegers	4440	100	92	96	100	100	100	100	100
Majesty	Siegers	3323	52	96	100	96	100	100	100	100
Montecarlo	Rispens/Rogers	3605	16	24	56	96	88	96	100	100

Table 5a. Plant and ear characteristics of sugar enhanced (SE) sweet corn cultivars grown at Fremont, Ohio 1996 [seeded June 4 (white) and June 5 (yellow & bicolor)].

Cultivar	Source	Days 100% tassel	Days 100% silk	Days to Harvest	Total Ht. (in)	Ht. /ear (in)	Mktbl. Crates/ acre	Tip <sup>2</sup> cover	Tip <sup>2</sup> fill	Ear length (in)	Ear dia. (in)	Kernel No.	Harvest <sup>2</sup> ease	Flavor	Pericarp firmness (g) <sup>3</sup>	% Total Sugar	
																24 hr	6 days
<b>WHITE</b>																	
Argent*	C	50	55	77	81	15	443	1	1	8.2	1.80	16	1	1	470	23.6	21.2
XPH3113*	A	46	50	70	80	12	456	1	1	7.2	1.75	16	2	2	725	21.0	15.3
XPH3114*	A	48	54	70	84.6	24	434	1	1	8.2	1.70	16	3	2	632	17.2	16.7
Fantasia	A	48	54	77	88	22	358	1	1	8.0	1.85	18	2	1	584	20.3	17.1
Silverado	HM	48	54	77	78	10	388	2	1	7.85	1.70	14	1	2	777	15.3	12.2
Silver Queen	Ro	58	64	74	100	30	339	1	2	7.80	1.70	12	1.5	2.5	884	21.9	21.4
Sweet Ice*	HM	48	52	77	78	14	442	1	2	7.6	1.85	14	1	2	774	24.9	23.7
Imaculata*	Ri	48	54	77	70	12	412	1	1	7.8	2.00	16	1	3	719	24.7	21.8
Spring Snow	Ri	44	46	63	62	14	306	1	1	7.3	1.70	12	1	2	673	26.4	22.8
Avalanche	Ri	48	53	77	75	15	400	2	1	8.3	1.80	16	2	2	642	21.6	17.6
Sugar Snow II	Ri	44	48	70	68	14	218	1	1	6.8	1.70	14	1	1	763	23.4	23.8
Sweet Ice	HM			80											880	23.7	21.5
Sweet Ice	HM			83											941	20.7	19.4
<b>YELLOW</b>																	
Incredible*	C	51	56	79	90	19	470	2	2	8.0	1.90	20	1	2	552	16.4	15.0
Bodacious*	C	47	51	76	79	12	412	1	2	7.8	1.90	16	1	2	494	21.6	19.0
Casino	A	46	49	69	78	19	393	1	2	7.0	1.60	14	2	1	637	30.0	26.8
Advantage	L	43	47	69	65	18	379	3	1	7.9	1.70	14	1.5	2	777	23.9	20.0
Gold Nuggets	Ru	49	53	76	81	20	341	1	2	7.7	2.05	20	2.0	1	572	24.5	20.1
Sugar Buns	HM	46	49	69	67	15	334	1	1	7.50	1.60	14	2	1	738	30.7	29.6
HMX 4340*	HM	46	49	69	90	21	424	1	1	7.0	1.70	14	1	2	760	26.4	23.7
Seneca Daybreak	S	43	47	69	69	19	368	3	2	8.0	1.70	14	2.5	2	780	23.4	20.0
Kandy King	S	46	52	76	76	15	372	2	1	9.0	1.90	14	2	2	520	23.0	22.3
Sugar Ace F1*	HM	52	59	79	72	17	479	1	1	7.7	1.80	16	1.5	1	670	23.4	22.9
Amaize*	C	49	51	76	74	11	434	2	1	7.80	1.80	14	1	2	623	19.9	17.9
Merlin*	Ri	52	57	79	93	20	469	2	1	8.80	2.0	18	1	2	565	31.4	25.8
HMX4340	HM			72											840	23.5	22.7
Sugar Buns	HM			72											828	24.7	18.4
HMX 4340	HM			75											864	24.5	23.4
Sugar Buns	HM			75											903	28.8	22.5

1)Based on 56 count crates

2)Scale: 1 = excellent; 5 = poor

3)600 and below = creamy; 600-850 = normal; 850 and above = crunchy

4)Based on glucose equivalents.

\*Considered best in trial

Source: C=Crookham; A=Asgrow; HM=Harris-Moran; Ro=Rogers; Ri=Rispens; L=Liberty; Ru=Rupp; S=Siegers

Table 5b. Plant and ear characteristics of sugar enhanced (SE) sweet corn cultivars grown at Fremont, Ohio 1996 [seeded June 4 (white) and June 5 (yellow & bicolor)].

Cultivar	Source	Days 100% tassel	Days 100% silk	Days to harvest	Total ht. (in)	Wt. / ear (in)	Mktbl. Crates / acre <sup>1</sup>	Tip <sup>2</sup> cover	Tip <sup>2</sup> fill	Ear length (in)	Ear dia. (in)	Kernel No.	Harvest <sup>2</sup> ease	Flavor	Pericarp firmness (g) <sup>3</sup>	% Total Sugar <sup>4</sup>	
																24 hr	6 days
<b>BI-COLOR</b>																	
Double Gem	J	49	53	69	79	16	304	1	1	7.65	1.80	18	4	2	701	37.8	33.2
Pilot	J	57	64	83	92	22	337	1	2	8.4	1.85	16	2	2	721	31.9	26.2
Dancer	J	59	64	83	90	27	274	1	2	7.5	1.70	20	1	1	598	32.8	32.4
Athos	C	46	53	69	78	13	297	2	2	7.5	1.65	14	2	2	658	28.9	21.5
D'Artagnan	C	47	51	76	87	15	272	2	2	7.75	1.70	12	2	3	651	26.6	25.9
Ambrosia*	C	54	57	76	85	21	401	2	2	8.3	1.85	18	1	1	614	24.8	22.6
Delectable	C	54	57	76	93	31	344	1	2	8.4	1.95	22	2.5	2.5	595	21.6	20.0
Tecumseh II	St	54	61	76	93	21	275	1	2	8.2	1.85	14	2.5	2	488	25.2	22.9
XPH 3130	A	48	54	76	87	21	319	1	1	7.8	1.8	16	3	1	559	25.8	25.4
XPH 3086*	A	52	58	79	102	26	415	1	1	8.2	1.8	16	2.5	1	467	24.0	21.6
Coronet	A	52	57	83	90	30	400	1	1	8.5	1.9	16	1	2	687	20.7	18.6
Polo R	A	46	54	69	76	9	385	1	1	7.6	1.70	14	3	2	686	18.3	17.6
Temptation*	A	48	53	69	81	16	515	1	1	7.6	1.7	16	2	1	679	30.6	27.5
Double Gem	Si	48	54	69	75	18	292	1	1	7.4	1.85	16	2	2	693	33.8	30.0
Precious Gem	Si	53	61	79	86	22	383	1	1	8.6	1.90	18	1.5	1	506	20.0	19.7
Delectable	Si	52	58	79	91	24	396	1	2	8.3	2.10	20	2	3	628	21.9	20.7
Double Gem	HM	49	53	69	79	18	352	1	1	7.40	1.90	16	3	1	687	37.7	35.2
Summer Delicious	L	58	64	83	98	26	337	1	1.5	8.10	1.90	20	2	1	587	32.0	28.8
HMX 3370	HM	46	49	69	78	9	458	2	1	7.55	1.75	14	2	2	791	30.7	26.6
Sweet Rhythm	HM	49	53	69	79	19	536	1	1	7.60	1.75	16	2	1	745	31.1	24.6
Sweet Symphony	HM	50	54	76	82	17	366	1	1	7.50	1.85	16	2	2	789	24.0	21.3
HMX 3370*	HM			72											910	25.7	25.3
Sweet Rhythm*	HM			72											972	29.4	24.2
Sweet Symphony	HM			79											955	20.8	19.2
Double Gem	HM			72											801	30.2	26.7
HMX 3370	HM			75											978	21.1	20.0
Sweet Rhythm	HM			75											973	25.7	24.1
Sweet Symphony	HM			82											1159	20.6	18.1
Double Gem	HM			75											808	24.7	24.6

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1)Based on 56 count crates

2)Scale: 1 = excellent; 5 = poor

3)600 and below = creamy; 600-850 = normal; 850 and above = crunchy

4)Based on glucose equivalents

\*Considered best in trial

Source: J=Johnny's; C=Crookham; St=Stokes; A=Asgrow; Si=Siegers; L=Liberty; HM=Harris-Moran



Table 6a. Plant and ear characteristics of SH2 sweet corn grown at Wooster, OH 1996 [seeded June 18].

Cultivar	Source	Days 100% tassel	Days 100% silk	Days harvest	Total ht. (in.)	Ear ht. (in.)	Mktbl. <sup>1</sup> Crates/acre	Tip <sup>2</sup> cover	Tip <sup>2</sup> fill	Ear length (in.)	Ear dia. (in.)	Kernal no.	Harvest <sup>2</sup> ease	Flavor <sup>2</sup>	Pericarp <sup>3</sup> firmness (g)	% Total Sugar <sup>4</sup>	
																24 hr	6 days
<b>WHITE</b>																	
Nova 6564 omr	IIF	49	52	71	74	14	393	1	1	8.0	1.90	14	1	1	1122	28.8	27.9
WSS-9748*	Ro	52	57	78	87	28	478	2	1	7.0	2.00	16	4	1	1201	30.9	32.2
XPH3103*	A	52	55	78	84	32	451	1	1	7.6	1.90	18	2	1	1133	41.9	37.2
FMX 413	FM	52	55	78	79	28	378	1	2	7.4	2.10	16	4	1	1089	40.8	43.4
FMX 414*	FM	49	52	71	71	21	293	3	1	7.8	1.90	16	2	1	1082	47.5	50.3
Sweet Magic	HM	49	52	71	67	15	395	2	1	7.3	1.90	18	3	2	1146	52.1	51.5
Silver Dollar	HM	49	52	71	67	16	378	2	1	8.2	1.90	20	2	1.5	1235	58.9	45.6
Snowmass*	Ro	52	57	78	87	21	392	1	1	7.6	1.70	14	3	1.5	929	43.3	41.0
Snowbird*	Ro	49	52	71	73	20	396	3	1	7.2	2.00	16	3	2	882	35.2	29.5
7101-W*	AC	55	59	78	82	32	414	1	1	7.4	1.80	16	2	2	916	45.5	42.9
8101-W	AC	57	59	78	79	30	366	2.5	1	7.8	1.70	18	2	2.5	1069	39.9	33.5
<b>YELLOW</b>																	
XPH3105	A	49	52	71	64	13	380	3	2	7.6	1.70	14	3	3	1055	53.5	52.3
Daystar*	HM	62	62	78	82	22	484	1	1	7.3	2.00	16	2	2	1210	32.9	30.4
Colossal	St	49	52	71	56	14	339	1	4	7.2	1.80	12	2	4	1034	32.7	28.0
Punchline	A	57	62	86	80	32	300	3	1	7.4	2.00	16	2	2	967	41.8	38.1
Zenith	HM	59	62	86	86	30	469	1	1	7.2	1.90	18	4	2	915	50.4	46.2
Maxim*	HM	59	62	86	80	24	410	4	1	7.4	2.05	16	3	3.5	1122	46.1	42.5
Victor FMX 329	FM	55	59	78	78	24	390	1	1.5	7.9	2.00	16	3	3	1040	37.9	37.5
FMX 412	FM	57	62	78	82	28	348	1	1	8.0	1.80	18	3	1	1084	39.2	38.1
Fortune*	Si	55	57	78	82	24	405	1	1	7.5	1.80	16	3	2	1054	37.3	36.5
GSS-6394*	Ro	52	55	71	72	18	436	1	1	7.2	1.80	14	2	2	1109	43.9	43.0
GSS-7887*	Ro	57	62	78	88	28	423	1	1	7.4	1.70	16	3	3	962	40.6	39.8
Primetime*	Ro	57	59	78	87	26	457	3	1	7.7	1.70	16	3	2	950	37.5	34.4
710A*	L	55	57	78	83	32	416	1	1	8.4	1.90	16	3	2	1189	35.4	34.9
7710-W	AC	59	62	86	78	28	390	2	1	7.6	1.90	18	2	2.5	1034	23.0	21.8
Bandit*	HM	59	62	78	86	32	422	1	1	7.2	2.00	18	2	1	1099	27.3	24.4

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<sup>1</sup>Based on 56 count crates<sup>2</sup>Scale: 1 = excellent; 5 = poor<sup>3</sup>600 and below = creamy; 600-800 = normal; 850 and above = crunchy<sup>4</sup>Based on glucose equivalents

\*Considered best in trial.

Source: IIF=Illinois Foundation;Ro=Rogers; A=Asgrow; FM=Ferry-Morse;HM=Harris-Moran; AC=Abbott &amp; Cobb; St=Stokes; Si=Siegers; L=Liberty

Table 6b . Plant and ear characteristics of SH2 sweet corn grown at Wooster, OH 1996 [seeded June 18].

Cultivar	Source	Days 100% tassel	Days 100% silk	Days harvest	Total ht. (in)	Ear ht. (in)	Mktbl. <sup>1</sup> Crates/acre	Tip <sup>1</sup> cover	Tip <sup>1</sup> fill	Ear length (in)	Ear dia. (in)	Kernal no.	Harvest <sup>2</sup> ease	Flavor <sup>2</sup>	Pericarp <sup>1</sup> firmness (g)	% Total Sugar	
																24 hr	6 days
<b>BI-COLOR</b>																	
Jumpstart	Ri	49	52	71	69	16	352	1	4	7.05	1.85	12	4	3	1172	24.4	23.6
Headliner	C	55	57	78	90	32	483	2	3	7.2	1.80	18	3	2	1089	32.9	30.0
Phenomenal*	C	57	59	78	88	28	477	1	1	7.2	1.90	16	5	1.5	847	32.8	30.1
XPH3129	A	55	57	78	84	34	401	1	1	8.9	2.05	16	5	1	985	31.0	29.8
Eagle	J	55	57	78	82	24	410	1	2	7.8	2.00	16	3	1.5	823	32.3	31.6
Tartan	J	57	59	78	78	24	400	1	2	7.4	2.05	22	3	2	1009	30.0	29.9
Everprime	J	49	55	78	76	18	424	2	2	7.2	1.80	16	3	1.5	1205	28.8	27.4
JCO 8595	J	49	52	71	67	15	330	3	1	7.2	1.80	14	3	1.5	1138	28.9	28.4
Colossal	St	49	52	71	62	16	324	1	3.5	7.8	1.80	14	4	1	1093	26.1	23.1
Starpak	Se	62	62	86	77	24	336	1	1	7.8	2.10	16	3	2	1062	22.1	21.8
Starship*	Se	59	62	86	78	24	478	2.5	1	8.0	2.00	16	2	3.5	1085	30.4	28.5
Everprime	IIF	52	55	78	82	20	387	3	2.5	7.1	1.80	16	3	2	1161	21.9	20.7
Headliner	IIF	57	57	78	95	32	469	1	3	8.0	1.80	16	4	3.5	994	22.7	18.5
Hybrid 323*	FM	55	59	78	82	26	447	1	1.5	7.9	1.90	16	4	1.5	854	23.2	22.8
Candystore*	HM	57	62	78	87	24	459	1	1	7.2	1.85	16	4.5	2.5	983	32.1	30.9
Confection	HM	55	55	78	77	20	451	3	3	7.7	1.90	16	4	3.5	1242	35.3	31.0
HMS3364BS*	HM	55	55	78	82	26	477	3	1	7.4	1.85	14	3	2	1319	40.3	40.2
HMS3365BS	HM	59	64	86	82	32	411	1	1	7.2	1.90	16	2	2	1056	41.0	36.2
Diablo	FM	55	55	78	74	23	234	1	3	8.0	2.00	16	2	1	1026	27.1	22.6
A--Maizingly*	FM	55	57	78	77	28	495	1	2	7.2	2.00	18	2	2.5	996	22.9	22.3
FMA 400	FM	49	52	71	64	14	281	2	2	6.8	1.70	12	2	1.5	1057	28.9	27.8
Quest*	L	57	62	78	77	28	489	3	1	7.3	2.10	16	4	2.5	856	27.8	26.4
Quest*	Ro	55	59	78	82	26	469	1	1	7.4	2.00	16	3	1.5	855	20.7	29.6
BSS-1609*	Ro	55	59	78	89	32	519	1	1	7.6	1.70	16	3.5	2.5	1002	34.1	32.6
BSS-4340*	Ro	55	59	78	81	30	495	1	1	7.2	1.90	16	4	3	1081	28.4	28.2
Seneca Appoloosa	Si	55	55	78	79	24	513	4	1	7.8	2.00	16	4	1.5	1314	29.8	27.7
Majesty*	Si	55	57	78	88	30	495	1	1	7.5	1.90	16	4	4	1066	28.3	28.2
Montecarlo	Ri/Ro	49	55	71	72	12	435	3.5	1	8.7	1.90	14	4	2	1133	28.7	28.1

<sup>1</sup>Based on 56 count crates

<sup>1</sup>Based on glucose equivalents

<sup>3</sup>600 and below = creamy; 600-800 = normal; 850 and above = crunchy

<sup>2</sup>Scale: 1 = excellent; 5 = poor

<sup>\*</sup>Considered best in trial

Source: Ri=Rispens; C=Crookham; A=Asgrow; J=Johnny's; St=Stokes; Se=Seedway, Inc.; IIF=Illinois Foundation; FM=Ferry-Morse; HM=Harris-Moran; L=Liberty; =Ro=Rogers; Si=Siegers; Ri/Ro=Rogers

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