2005 Sweet Corn Cultivar Evaluation

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Sweet Corn is Ohio's number one fresh market vegetable with between 15,000 to 17,000 acres planted depending on the year. In the US, Ohio ranks 6th in fresh market sweet corn production. Sweet corn is produced throughout OH, in the southeast along the Ohio River, in many counties around Cincinnati, and also throughout central and northern OH.

Objectives
To identify sweet corn cultivars with good emergence, high marketable yield and excellent quality under OH growing conditions.

Methods
At South Charleston, fifteen SE varieties were planted on April 20th and twenty nine SH2 varieties were planted on May 24th. Plots consisted of 4 rows, 30 in apart and 25 ft long. In row spacing averaged 9 inches. Plots were arranged in a randomized complete block design with 4 replications. The middle two rows are used for yield data. Data collected included early plant vigor, plant and ear characteristics, and marketable yield. Sweetness was determined by a purely subjective evaluation of raw eating quality. Each variety was also evaluated for percent germination at ten different temperatures on the thermo-gradient table. Some of the 2005 varieties were also evaluated at 2 grower locations in central OH.. Complete tables snd pictures are available at the VegNet website: **http://vegnet.osu.edu**

Results
Very warm and enticing late April weather encouraged early planting of the 15 se varieties. Shortly after planting, a three week period of record breaking cold and several frosts persisted in central OH. Despite the weather, the seed did not rot nor killed but essentially remained dormant for about 3 weeks dashing all hope for early se sweet corn harvest. Days to maturity for the se varieties ranged from 91 to 102 days. In the bicolor se's, Precious Gem and BC 0805 had the best early plant vigor 2-4 weeks after emergence. Chantilly and Whiteout (white) had good early plant vigor but nothing was outstanding in the yellow varieties. In the bicolors, Precious Gem and Brocade had the best yield while BC 0805, Providence and Accord had the best flavor. BC 0805 performed well in 2004. WH 0807 and Whiteout had the best yield in the white varieties. Honey Select was the best yellow with very good flavor.

In the SH2 field, yields ranged from poor to good. Quality and yield were affected by drought, heat and in several locations, outbreaks of triazine resistant lambsquarter. Eighteen bicolor sh2's were evaluated this year. Despite the conditions, several varieties performed well under stress. 270 A and Mirai336 BC were the best in the early 70 day corn category. At 79 days, BSS 0652 and Optimum had the highest yield and good to very good flavor. BSS 0977 was the best 80+ day corn. All the 80 day corn varieties were above 1100 marketable dozen per acre with either a good to very good flavor ranking.

White sh2 varieties, Mirai 421W, and MX420W were the highest in yield. Mirai 421 had better flavor and kernel texture compared to MX 420W.

ACX MS 727W had good flavor but produced less than 1000 marketable dozen.

In the yellow sh2 category, most varieties performed poorly in this location due to conditions mentioned above. Mirai 131Y performed very well at a grower's location with good yield and high quality flavor. Customers at this location resistant to buy yellow corn returned for more.

Table 1. List of Sweet Corn Varieties Evaluated in 2005

ID Number	SE Cultivar		Co.[1]	Color
1	Revelation		HM	Bi
2	Renaissance		HM	Bi
3	Bon Jour		MM	Bi
4	Cameo		CR	Bi
5	Luscious		MM	Bi
6	Accord		MM	Bi
7	Brocade		MM	Bi
8	Precious Gem		MM	Bi
9	Providence		SY	Bi
10	Avalon		SY	Bi
11	BC 0805		SY	Bi
12	Chantilly		MM	W
13	Sugar Pearl		MM	W
14	Whiteout		MM	W
15	WH 0807		SY	W
16	Sugar Queen		MM	W
17	Breeders Choice		MM	Y
18	Honey Sweet		SY	Y
19	30748		MM	Y

[1] Seed Source: AC=Abbott & Cobb, CR=Crookham, C=Centest, HM=Harris Moran, MM=Mesa Maize, RI-Rispen, SI=Siegers, SY=Syngenta.

ID Number	SH2 Cultivar		Co.[1]	Color
20	270A		SI	Bi
21	Mirai 308BC		Cen	Bi
22	272A		SI	Bi
23	6802R		AC	Bi
24	726BC		AC	Bi
25	Fantastic		SI	Bi
26	Double Up		SY	Bi
27	Mirai 327		Cen	Bi
28	Mirai 334BC		Cen	Bi
29	Mirai 336 BC		Cen	Bi
30	Mirai 301 BC		Cen	Bi
33	BSS 0977 VP		SY	Bi
34	BSS 0652		SY	Bi
35	Optimum		CR	Bi
36	Surpass		CR	Bi
37	Obession		SI	Bi
38	BSS 3495		SY	Bi
39	Holiday		CR	Bi

40	Mirai 421 W	Cen	W
41	MX 420W	Cen	W
42	ACX MS727W	AC	W
43	Acropolis	AC	W
44	Accelerator	AC	W
47	1178	SI	Y
48	Mirai 117Y	Cen	Y
49	Mirai 131Y	Cen	Y
50	Mirai 130Y	Cen	Y
51	AC 6800YR	AC	Y
52	945Y	AC	Y
53	Passion	Si	Y

[1] Seed Source: AC=Abbott & Cobb, CR=Crookham, C=Centest, HM=Harris Moran, MM=Mesa Maize, RI-Rispen, SI=Siegers, SY=Syngenta.

Table 1. Saturated Salt Accelerated Aging[1], 2005

Number	Variety	Color	Percent Germination
	SE's		
1	Revelation	Bi	96
3	Bon Jour	Bi	96
5	Luscious	Bi	94
6	Accord	Bi	90
7	Brocade	Bi	92
8	Precious	Bi	96
9	Providence	Bi	92
11	BC 0805	Bi	93
12	Chantilly	W	98
13	Sugar Pearl	W	94
14	Whiteout	W	89
15	WH 0807	W	98
16	Sugar Queen	W	92
17	Breeders Choice	Y	88
18	Honey Sweet	Y	95
19	30748	Y	94
	SH2's		
20	270A	Bi	94
21	Mirai 308BC	Bi	88
22	272A	Bi	95
23	6802R	Bi	85
24	726BC	Bi	87
25	Fantastic	Bi	93
26	Double Up	Bi	90
27	Mirai 327	Bi	51
28	Mirai 334BC	Bi	84
29	Mirai 336 BC	Bi	88
30	Mirai 301 BC	Bi	92
33	BSS 0977 VP	Bi	94
34	BSS 0652	Bi	94
35	Optimum	Bi	85
36	Surpass	Bi	87
37	Obession	Bi	94
38	BSS 3495	Bi	68
39	Holiday	Bi	97
40	Mirai 421 W	W	96
41	MX 420W	W	94
42	ACX MS727W	W	93
43	Acropolis	W	91

Table 1 (cont.). Saturated Salt Accelerated Aging[1], 2005

Number	Variety	Color	Percent Germination
44	Accelerator	W	92
48	Mirai 117Y	Y	84
49	Mirai 131Y	Y	96
50	Mirai 130Y	Y	88
51	AC 6800YR	Y	94
52	945Y	Y	98
54	Vision	Y	94

1. Average of 3 replications.

Table 2. Summarization of 2005 Sweet Corn Cultivars on The Thermo-Gradient Table

			Percent Germination												
	Temperature Range		12-16°C 57 - 61 °F					18-20°C 64 - 68 °F					22-30°C > 72 °F			
	Days on Table		3	5	7	10		3	5	7	10		3	5	7	10
ID #	Variety	Type														
	SE's															
1	Revelation	Bi-se	0	3	3	3		6	17	46	65		65	89	93	92
3	Bon Jour	Bi-se	0	3	3	3		3	27	52	73		60	93	99	98
5	Luscious	Bi-se	0	0	3	8		3	27	52	65		65	93	97	96
6	Accord	Bi-se	0	0	2	3		15	35	55	65		62	91	85	95
7	Brocade	Bi-se	0	0	3	3		16	30	55	66		72	85	75	93
8	Precious Gem	Bi-se	0	5	6	7		0	17	38	62		60	86	98	98
9	Providence	Bi-se	0	0	1	2		0	10	35	63		52	90	95	96
10	Avalon	Bi-se	0	0	1	17		0	20	53	76		64	87	100	100
11	BC 0805	Bi-se	0	0	0	6		0	5	33	52		51	85	93	98
12	Chantilly	W-se	0	1	1	3		6	37	55	68		71	95	97	96
13	Sugar Pearl	W-se	0	0	4	10		3	37	57	68		58	93	96	97
14	Whiteout	W-se	0	0	6	12		0	25	50	77		56	83	89	89
15	WH 0807	W-se	0	1	2	3		0	10	22	45		31	86	93	96
16	Sugar Queen	W-se	0	2	3	7		10	22	32	48		45	79	91	91
17	Breeders Choice	Y-se	0	1	2	4		0	20	42	58		56	84	87	87
18	Honey Sweet	Y-se	0	0	1	2		3	8	23	45		34	79	88	93
19	30748	Y-se	0	3	6	8		8	43	62	68		78	94	94	95
	SH2's															
20	270A	Bi-sh2	0	0	0	1		10	17	37	40		57	84	90	95
21	Mirai 308BC	Bi-sh2	0	0	0	0		0	10	15	32		41	80	90	94
22	272A	Bi-sh2	0	0	1	3		0	16	33	55		59	90	95	98
23	6802R	Bi-sh2	0	1	3	8		3	40	72	82		77	97	98	99

Table 2 (cont). Summarization of 2005 Sweet Corn Cultivars on The Thermo-Gradient Table

			Percent Germination													
	Temperature Range		**12-16°C 57 - 61 °F**					**18-20°C 64 - 68 °F**					**22-30°C > 72 °F**			
	Days on Table		**3**	**5**	**7**	**10**		**3**	**5**	**7**	**10**		**3**	**5**	**7**	**10**
ID #	**Variety**	**Type**														
24	726BC	Bi-sh2	0	1	6	11		6	18	37	47		50	82	87	92
25	Fantastic	Bi-sh2	0	0	0	0		0	13	28	38		65	83	92	95
26	Double Up	Bi-sh2	0	0	0	1		0	15	27	33		57	82	90	93
27	Mirai 327	Bi-sh2	0	0	1	3		0	33	52	57		75	87	83	91
28	Mirai 334BC	Bi-sh2	0	0	0	0		0	7	8	33		71	71	85	93
29	Mirai 336 BC	Bi-sh2	0	0	0	0		0	2	10	25		22	66	82	95
30	Mirai 301 BC	Bi-sh2	0	0	0	0		0	2	5	40		22	71	88	97
33	BSS 0977 VP	Bi-sh2	0	0	0	8		20	23	30	52		55	89	93	99
34	BSS 0652	Bi-sh2	0	0	0	3		3	7	12	25		49	77	89	95
35	Optimum	Bi-sh2	3	0	0	3		0	13	17	20		51	77	85	89
36	Surpass	Bi-sh2	0	0	0	3		0	22	32	40		55	83	90	92
37	Obession	Bi-sh2	0	0	2	4		6	25	30	57		81	96	99	99
38	BSS 3495	Bi-sh2	0	0	0	0		0	2	15	32		32	66	81	75
39	Holiday	Bi-sh2	0	0	2	7		0	25	58	68		69	97	98	99
40	Mirai 421 W	W-sh2	0	0	0	0		0	3	12	20		22	75	85	92
41	MX 420W	W-sh2	0	0	1	3		0	30	47	66		75	95	97	97
42	ACX MS727W	W-sh2	0	0	0	1		0	17	18	25		32	73	75	83
43	Acropolis	W-sh2	0	0	3	4		0	32	55	72		69	93	95	97
44	Accelerator	Y-sh2	0	0	0	2		16	33	50	67		73	98	98	98
48	Mirai 117Y	Y-sh2	0	0	0	0		0	2	7	23		28	55	71	81
49	Mirai 131Y	Y-sh2	0	0	0	0		0	2	5	28		44	71	88	95
50	Mirai 130Y	Y-sh2	0	0	1	1		3	10	18	38		56	80	87	88
51	AC 6800YR	Y-sh2	0	0	0	2		6	20	42	50		72	91	94	94
52	945Y	Y-sh2	0	0	0	1		3	33	73	73		80	96	99	99

Yield, ear size and quality, and plant characteristics of SE sweet corn in South Charleston, Ohio, 2005

ID Number	SE Cultivar	Co.[1]	Color	Days to Maturity [2]	Plant Vigor[3]	Yield of Marketable Ears		Ear Length	Ear Diameter	Tip Cover[4]	Tip Fill[5]	Husk Tightness [6]	Shank Length	Flag leavs[7]	Ht. From Ground to Lowest Ear	Harvest Ease[8]	Eating Quality Raw [9]
						(doz/A)	Crates/A	(in)	(in)	(in)	(1-5) [5]	(1-3) [6]	(in)	(in)	(in)		
8	Precious Gem	MM	Bi	91	3.6	1379	275	7.7	1.8	3.8	5.0	2.0	2.0	M	23	E	G
5	Luscious	MM	Bi	91	2.5	1016	203	7.4	1.7	3.2	4.3	1.7	3.5	L	18	E-M	G
3	Bon Jour	MM	Bi	91	2.3	943	188	7.0	1.7	3.7	5.0	2.0	2.0	M	19	E-M	G
7	Brocade	MM	Bi	102	3.0	1234	246	7.2	1.9	4.3	2.9	2.1	3	M	21	M-H	G
11	BC 0805	SY	Bi	102	3.5	1143	228	7.8	1.6	5.0	4.5	1.6	4.5	S-M	18	M-H	G-VG
6	Accord	MM	Bi	102	1.6	907	181	7.3	1.8	4.1	5.0	2.2	4.5	M	23	M-H	G-VG
9	Providence	SY	Bi	102	2.2	871	174	8.1	1.6	4.1	3.7	2.0	4	S-M	18	H	G-VG
12	Chantilly	MM	W	90	3.0	744	148	6.6	1.5	4.4	4.1	2.0	3.5	M	15	M-H	G-VG
13	Sugar Pearl	MM	W	91	2.2	889	177	7.2	1.6	4.1	4.2	2.0	2.0	M	19	M-H	M-G, STP
14	Whiteout	MM	W	95	3.1	1270	254	7.3	1.7	3.6	3.5	2.0	3.0	M	22	M-H	G
15	WH 0807	SY	W	95	2.8	1416	288	7.3	1.7	4.0	4.7	2.1	2.0	M	23	M-H	G
16	Sugar Queen	MM	W	102	2.7	834	166	7.4	1.9	4.5	4.7	2.0	4.5	L->12	23	M-H	G-VG
17	Breeders Choice	MM	Y	95	2.0	889	177	7.1	1.7	3.7	4.7	2.0	2.0	M	20	H	G
18	Honey Sweet	SY	Y	95	2.3	1379	275	8.2	1.7	3.0	3.7	1.6	4.0	M-L	20	M-H	G-VG
19	30748	MM	Y	102	2.2	943	188	7.6	1.8	3.9	5.0	2.0	4.0	M	24	M-H	G-VG
	LSD 0.05				0.95	311	62.2	0.4	0.1	0.6	0.8	0.2					

1. Seed Source: AC=Abbott & Cobb, C=Centest, CR=Crookham, SI=Siegers, ST=Stokes.
2. DAP: days after planting.
3. Early Plant Vigor, 2-4 weeks after emergence:1=poor, 2=medium, 3=good, 4=very good plant vigor.
4. Tip Cover: 1=exposed; 2=<.75 in covered; 3=0.75-1.25 in; 4=1.25 - 2 in covered; 5=2+ in. covered.
5. Tip Fill: 1= 2" or + unfilled; 2= >1in unfilled; 3= 0.5 to 1 in unfilled; 4= <0.5 in unfilled to tip; 5=filled to tip.
6. Husk Tightness: 1=loose; 2=firm; 3=tight. 7. Flag Leaves: S=<4"; M=4-8"; L=8=12"; >12". 8. Harvest Ease: E=easy, M=medium, H=hard. VH=very hard
9. Eating Quality: P = poor; M = medium; G = good; VG = very good; E = excellent. STP = slightly tough pericarp; TP = tough pericarp. * = overmature

Yield, ear size and quality, and plant characteristics of SH2 sweet corn in South Charleston, Ohio, 2005

ID #	SH2 Cultivar	Co.[1]	Color	Predicted Maturity	Days to Maturity [2]	Early Plant Vigor[3] 6/22/05	Yield of Marketable (doz/A)	Ears Crates/A	Ear Length (in)	Ear Diameter (in)	Tip Cover[4] (1-5)[4]	Tip Fill[5] (1-5)[5]	Husk Tightness [6] (1-5)[5]	Shank Length (in)	Flag leaves[7] (in)	Ht. From Ground to Lowest Ear (in)	Harvest Ease[8]	Eating Quality Raw[9]
20	270A	SI	Bi	70	77	M-P	1034	206	7.2	1.9	2.5	2.7	2.0	2	M	15	E	G
29	Mirai 336 BC	C	Bi	73	77	G	998	199	7.1	1.8	3.2	4.1	2.0	2	M-L	26	M	G
22	272A	SI	Bi	72	77	G	962	192	6.8	1.9	2.8	2.7	2.0	2	M	18	E	G, TP*
21	Mirai 308BC	Cen	Bi	71	77	G	907	181	7.5	1.9	2.7	4.0	2.0	3	M	19	E	G
23	6802R	AC	Bi	72	77	M	726	145	7.1	1.9	2.4	4.2	2.0	2.7	L	21	E	G
28	Mirai 334BC	C	Bi	73	78	M	980	196	7.1	1.8	4	3.7	2.0	2	M	23	M	G*
26	Double Up	SY	Bi	73	78	G-VG	925	185	7	1.8	3	3.7	2.0	3.5	L	22	M	G
25	Fantastic	SI	Bi	73	78	M-G	834	166	7.1	1.9	2.8	4.5	2.0	2.2	M	19	E	G-VG
24	726BC	AC	Bi	72	78	M	689	137	6.9	1.8	2	4.0	2.0	3.8	L	18	E	G
27	Mirai 327	C	Bi	73	78	M-P	544	108	7.5	1.8	2.9	3.2	2.0	3.5	M	23	E	G-VG
34	BSS 0652	SY	Bi	78	79	P-M	1052	210	6.9	1.8	3	4.3	2.0	2.7	M	15	M-H	G-VG
35	Optimum	CR	Bi	78	79	P-M	1107	221	5.2	1.3	3.7	3.2	1.5	2.5	S-M	18	H	G-VG
36	Surpass	CR	Bi	78	79	M-G	834	166	7.2	1.8	4.1	4.2	2.0	3.2	M	20	E	G-VG, STP
33	BSS 0977 VP	SY	Bi	73	80	G	1306	261	7.1	1.8	3.7	4.7	1.6	2	M	23	E	G
37	Obession	SI	Bi	79	81	M-G	1143	228	7.3	1.8	2.9	4.6	1.7	1.7	S-M	18	M-H	G-VG
38	BSS 3495	SY	Bi	82	83	M	1179	235	6.9	1.8	2.3	3.5	2.0	3	M	19	E-M	G
39	Holiday	CR	Bi	84	83	G	1161	232	7.3	1.9	3	4.2	1.7	3.3	M	21	M-H	G
30	Mirai 301 BC	C	Bi	76	83	G	1107	221	7.1	1.9	3.3	4.5	1.1	3.2	M	23	M-H	G-VG
40	Mirai 421 W	Cen	W	72	77	M-G	1234	246	7.7	1.9	3.2	5.0	2.0	2.1	L	18	E-M	G
41	MX 420W	Cen	W	72	77	G	1034	206	7.7	2.0	2.2	3.7	2.0	2.5	M	19	M-H	M-G, STP
42	ACX MS727W	AC	W	-	77	G	943	188	7.5	1.8	2.3	3.7	1.9	3.2	M-L	19	E	G, STP
44	Accelerator	AC	W	80	79	G	726	145	7.3	1.7	2.7	4.5	2.0	3	S-M	21	E	G
43	Acropolis	AC	W	76	79	M-G	417	83	7.7	1.6	2.5	3.5	2.0	2.5	S-M	20	E	G
49	Mirai 131Y	Cen	Y	71	77	G	671	134	7.8	1.8	2.3	2.7	2.0	2.2	S	19	E	G
51	AC 6800YR	AC	Y	72	77	P-M	490	98	5.7	1.5	2.2	2.7	2.0	2	S	21	E	P-M*
48	Mirai 117Y	Cen	Y	70	77	M-G	490	98	6.7	1.8	1.7	2.2	2.0	2	S	23	E	P*
50	Mirai 130Y	Cen	Y	72	77	M-P	471	94	7.2	1.8	2.5	3.5	2.0	2	S	18	E	G
47	1178	SI	Y	-	83	G	1070	214	7.4	1.9	2.5	4.5	1.4	2	M	19	E	M-G*
52	945Y	AC	Y	77	83	G	943	188	7	1.8	2.2	3.2	1.9	2	S-M	20	E	P*
LSD 0.05							385	76.9	1.2	-	1.1	1.6	0.3	0.9				

1. Seed Source: AC=Abbott & Cobb, C=Centest, CR=Crookham, SI=Siegers, ST=Stokes.
2. DAP: days after planting.
3. Early Plant Vigor, 2-4 weeks after emergence: P=poor, M=medium, G=good, VG=very good plant vigor.
4. Tip Cover: 1=exposed; 2=<.75 in covered; 3=0.75-1.25 in; 4=1.25 - 2 in covered; 5=2+ in. covered.
5. Tip Fill: 1= 2" or + unfilled; 2= >1in unfilled; 3= 0.5 to 1 in unfilled; 4= <0.5 in unfilled to tip; 5=filled to tip.
6. Husk Tightness: 1=loose; 2=firm; 3=tight. 7. Flag Leaves: S=<4"; M=4-8"; L=8=12"; >12". 8. Harvest Ease: E=easy, M=medium, H=hard. VH=very hard
9. Eating Quality: P = poor; M = medium; G = good; VG = very good; E = excellent. STP = slightly tough pericarp; TP = tough pericarp. * = overmature

Yield, ear size and quality, and plant characteristics of SE and SH2 sweet corn in New Albany, Ohio, 2005

ID #	Cultivar	Co.[1]	Color	Predicted Maturity	Days to Maturity [2]	Percent Plant Stand	Early Plant Vigor[3] 6/22/05	Yield of Marketable Ears (doz/A)	Crates/A	Ear Length (in)	Ear Diameter (in)	Tip Cover[4] (1-5)[4]	Tip Fill[5] (1-5) [5]	Husk Tightness [6] (1-5) [5]	Shank Length (in)	Flag leaves[7] (in)	Ht. From Ground to Lowest Ear (in)	Harvest Ease [8]	Eating Quality Raw [9]
	SE'S																		
2	Renaissance	HM	Bi	70	69	87	VG	1185	237	7.2	1.6	4.3	5.0	1.9	3.8	M	19	M-H	M-G
4	Cameo	CR	Bi	72	76	91	G	1040	208	7.7	1.8	3.5	3.4	2.0	3.5	M	22	E	G-VG
5	Luscious	MM	Bi	74	74	79	G	943	188	6.4	1.9	3	2.9	1.6	2	S-M	18	M	M-G
6	Accord	MM	Bi	78	74	75	G	895	179	7.2	1.6	4	3.3	2.0	4	M	18	M-H	M-G
8	Precious Gem	MM	Bi	80	76	83	VG	1379	275	7.7	1.8	3.8	5.0	2.0	2	M	24	E	G
9	Providence	SY	Bi	82	76	87	G-VG	1016	203	7.8	1.6	5	4.3	2.0	4	S-M	17	E	G-VG
10	Avalon	SY	Bi	82	78	92	G-VG	1234	246	7.8	1.8	5	3.9	2.0	2	S	17	E	M-G
11	BC 0805	SY	Bi	82	78	88	G-VG	1258	251	7.9	1.7	5	3.3	2.0	3.5	S	22	M-H	G
12	Chantilly	MM	W	71	69	66	G	822	164	6.4	1.7	3.6	4.6	2.0	2.8	M	14	H	M-G
15	WH 0807	SY	W	76	74	100	G-VG	1210	242	7	1.8	4	4.6	2.0	2	M	20	E-M	M
16	Sugar Queen	MM	W	82	78	79	G	895	179	6.8	1.8	5	4.6	2.9	2.8	M-L	18	E	M
18	Honey Sweet	SY	Y	76	74	66	G	847	169	8.1	1.8	3	3.6	1.7	2	S-M	20	M	M
	SH2'S																		
20	270A	SI	Bi	70	69	66	G	992	198	7.1	1.7	2.8	4.6	2.0	2	M	17	M	G
21	Mirai 308BC	Cen	Bi	71	69	83	M-G	1306	261	7.4	1.7	3	5.0	1.6	3.6	M	22	M-H	G
25	Fantastic	SI	Bi	73	69	58	G	895	179	7.5	1.8	3.1	5.0	2.0	4.6	>12	24	M-H	G
30	Mirai 301 BC	Cen	Bi	76	74	66	G	1234	246	7.7	1.8	4	4.6	1.9	3	M	30	M-H	G
35	Optimum	CR	Bi	78	76	75	G-VG	1185	235	6.9	1.8	4	5.0	2.0	2.5	L	25	E	G
36	Surpass	CR	Bi	78	76	62	M	1064	212	7.5	1.8	4.13.0	5.0	2.0	4.5	M	25	E	G-VG
38	BSS 3495	SY	Bi	82	78	66	P-M	1016	203	6.6	1.8	3	4.9	2.2	2.3	M-L	17	E	G
39	Holiday	CR	Bi	84	78	63	P-M	1089	217	7.3	1.7	4	5.0	2.0	4	M-L	25	E	G
40	Mirai 421 W	Cen	W	72	74	91	M-G	1234	246	7.8	1.7	3	5	2.0	2	L	24	H	G-VG
42	ACX MS727W	AC	W	75	74	92	VG	1355	271	6.8	1.7	1.2	5.0	1.8	3.6	M-L	18	M	G-VG
43	Acropolis	AC	W	76	74	38	P	726	145	7.9	1.8	2.6	5.0	2.0	3	L	22	E	M-G
46	Devotion	SI	W	-	78	71	M-G	1016	203	7.5	1.7	2.9	4.9	2.0	2.5	L	31	M	G-VG
49	Mirai 131Y	AC	Y	72	69	75	G	1282	256	7.7	1.9	1.7	5.0	2.0	3	M	23	M	G-VG
53	Passion	SI	Y	81	76	100	VG	1476	295	7.4	1.6	1.9	5.0	2.4	4	M	27	E	VG
LSD 0.05							315	63	0.4	0.12	1.1	0.5	0.7	0.3					

1. Seed Source: AC=Abbott & Cobb, C=Centest, CR=Crookham, SI=Siegers, ST=Stokes.

2. DAP: days after planting.

3. Early Plant Vigor, 2-4 weeks after emergence: P=poor, M=medium, G=good, VG=very good plant vigor.

4. Tip Cover: 1=exposed; 2=<.75 in covered; 3=0.75-1.25 in; 4=1.25 - 2 in covered; 5=2+ in. covered.

5. Tip Fill: 1= 2" or + unfilled; 2= >1in unfilled; 3= 0.5 to 1 in unfilled; 4= <0.5 in unfilled to tip; 5=filled to tip.

6. Husk Tightness: 1=loose; 2=firm; 3=tight. 7. Flag Leaves: S=<4"; M=4-8"; L=8=12"; >12". 8. Harvest Ease: E=easy, M=medium, H=hard. VH=very hard

9. Eating Quality: P = poor; M = medium; G = good; VG = very good; E = excellent. STP = slightly tough pericarp; TP = tough pericarp. * = overmature

Yield, ear size and quality, and plant characteristics of SE and SH2 sweet corn in Canal Winchester, Ohio, 2005

ID #	Cultivar	Co.[1]	Color	Predicted Maturity [2]	Days to Maturity	Early Plant Vigor[3] 6/22/05	Yield of Marketable Ears (doz/A)	Crates/A	Ear Length (in)	Ear Diameter (in)	Tip Cover[4] (1-5)[4]	Tip Fill[5] (1-5) [5]	Husk Tightness[6] (1-5) [5]	Shank Length (in)	Flag leaves[7]	Ht. From Ground to Lowest Ear (in)	Harvest Ease [8]	Eating Quality Raw [9]
	SE'S																	
1	Revelation	HM	Bi	68	82	VG	1185	237	7.4	2.1	3	5.0	2.0	3	M	17	E	G
	#1 Planted Apr. 28, 2005																	
13	Sugar Pearl	MM	W	73	68	G	1766	353	7.3	1.8	4.6	4.6	2.0	3	L	24	H	M-G
14	Whiteout	SY	W	73	68	G	1742	348	7.8	1.7	3.5	5.0	2.0	3	>12	30	H-VH	M
15	WH 0807	SY	W	76	71	G-VG	1669	333	7.6	1.7	4.5	5.0	2.3	2	L	36	H	G-VG
16	Sugar Queen	MM	W	82	76	G	1125	225	7.5	1.8	4.4	5.0	2.0	5	>12	38	M-H	G-VG
	#'s13 -16 & 20 - 43 planted May 19, 2005																	
	SH2'S																	
20	270A	SI	Bi	70	68	G	1766	353	7.2	1.8	2.5	4.5	2.0	1.5	M-L	24	M-H	G-VG
24	726BC	AC	Bi	72	65	M-G	1766	353	7.9	1.8	2.8	5.0	2.0	4.3	L+	23	M-H	VG
25	Fantastic	SI	Bi	73	65	G	1561	312	7.9	1.8	2	5.0	2.3	3.3	L	30	M	VG
27	Mirai 327 BC	Cen	Bi	73	71	G	1113	222	8.4	1.7	3.6	5.0	2.0	2	L	32	E	G-VG
28	Mirai 334 BC	Cen	Bi	73	65		1815	363	8	1.8	3.3	3.0	2.2	2.5	L	25	M	G-VG
35	Optimum	CR	Bi	78	72	G-VG	1815	363	7.7	1.8	4	5.0	2.3	2	L	33	E	VG
36	Surpass	CR	Bi	78	72	M	1343	268	7.5	1.7	4.5	5.0	2.0	5.3	L	26	M	G
38	BSS 3495	SY	Bi	82	72	P-M	871	174	7.8	1.9	2	5.0	2.0	5.1	>12	30	M	G
39	Holiday	CR	Bi	84	76	P-M	2032	406	8	1.7	4	5.0	2.0	5	L	36	M	VG
40	Mirai 421 W	Cen	W	72	71	M-G	1452	290	8.1	1.7	3.3	5	2.0	2.3	>12	24	H	G-VG
41	MX 420 W	Cen	W	72	72		1524	304	7.7	1.7	3	5	2.0	2.5	L	30	M-H	M-G
42	ACX MS727W	AC	W	75	72	VG	1887	377	7.5	1.8	1	5.0	1.4	3.5	L	28	M-H	G-VG
43	Acropolis	AC	W	76	72	P	1234	246	8.3	1.9	1.6	5.0	1.2	6	>12	24	E-M	G-VG
46	Devotion	SI	W	-	78	M-G	1476	295	7.1	1.8	2.8	4.8	2.0	3	M-L	35	M	G-VG
LSD 0.05						228	45	1	1	1.1	0.6	0.2	0.2					

1. Seed Source: AC=Abbott & Cobb, C=Centest, CR=Crookham, SI=Siegers, ST=Stokes.

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