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Sweet Corn Cultivar Trial

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Sweet Corn Cultivar Trial

Abstract

The 2005 sweet corn cultivar trial was conducted to identify superior cultivars with high-quality bicolored ears for local marketing or short-distance shipping. Nineteen sugar-enhanced (se)/synergistic hybrids and fifteen supersweet (sh2) hybrids were planted in a replicated trial at the Muscatine Island Research Farm on April 20, 2005 (Table 1). The fairly early spring planting date was selected so seedling vigor ratings could be taken under cool, less than ideal growing conditions. However, spring weather can be unpredictable and soil temperatures ranged from 53 to 600 F after planting, allowing most cultivars to germinate and emerge. Then unexpected cold weather followed in early May, probably accentuating seedling growth differences and allowing vigor ratings to be taken on May 25 (Table 2). It was surprising how vigorous several of the supersweet cultivars looked since these types are recommended for planting in warm soils only. This might be explained by two favorable events: 1) warm soils after planting that allowed quick germination, and 2) soils that were relatively dry when cold weather occurred, helping to keep seedlings healthy.

Disciplines

Agricultural Science | Agriculture

Sweet Corn Cultivar Trial

Vince Lawson, farm superintendent

Introduction

The 2005 sweet corn cultivar trial was conducted to identify superior cultivars with high-quality bicolored ears for local marketing or short-distance shipping. Nineteen sugarenhanced (se)/synergistic hybrids and fifteen supersweet (sh2) hybrids were planted in a replicated trial at the Muscatine Island Research Farm on April 20, 2005 (Table 1). The fairly early spring planting date was selected so seedling vigor ratings could be taken under cool, less than ideal growing conditions. However, spring weather can be unpredictable and soil temperatures ranged from 53 to 60°F after planting, allowing most cultivars to germinate and emerge. Then unexpected cold weather followed in early May, probably accentuating seedling growth differences and allowing vigor ratings to be taken on May 25 (Table 2). It was surprising how vigorous several of the supersweet cultivars looked since these types are recommended for planting in warm soils only. This might be explained by two favorable events: 1) warm soils after planting that allowed quick germination, and 2) soils that were relatively dry when cold weather occurred, helping to keep seedlings healthy.

Materials and Methods

Planting. On April 20, 2005, the planting was done on dark-colored loamy sand-type soil.

Plot Design. A randomized complete block design with three replications was used. The plot was two rows 30 ft long with 30 in. row spacing. Seeds were planted at rate of 25,750/acre.

Irrigation. Water was applied as needed with overhead sprinklers.

Fertility. Application of 50 lb of nitrogen (N) and 120 lb potassium (K20) was preplant incorporated. Later, 50 lb N (urea) was broadcast over plots on May 15 and another 35 lb on June 12.

Pest Control. Outlook, Atrazine 4L, and Callisto were the herbicides used; Capture and Mustang were the insecticides.

Results and Discussion

Cultivars are arranged by maturity, early to late, in the tables. Data for all cultivars are presented together for convenience; but in the field, the supersweets were planted in a block separate from the sugar-enhanced hybrids for isolation purposes, and data was analyzed separately. While there were significant yield differences among cultivars, for the most part they produced acceptable yields. Therefore, selecting a hybrid for planting should largely be made on desired maturity, plant characteristics, ear quality, seed availability, and the targeted market. Based on trial performance, the following sugar-enhanced/synergistic cultivars are recommended for consideration: Renaissance, Temptation, BC 0805, and Providence, MXH 12564, and Cameo. All looked good in their first year of evaluation and may be recommended in the future. Standard supersweet (sh2) cultivars with favorable production characteristics to consider are Candy Corner, Double Up, BSS 0977, and Polaris. Some of the cultivars with the best qualities for consumption in the trial are referred to as "augmented" or "gourmet eating" supersweets and included Mirai 301 BC, 274A, Fantastic, Obsession, and 282A.

Table 1. Sweet corn cultivar trial observations and comments.							
Sugar-enhanced(
and synergistic cultivars Comments							
Temptation	Standard early cultivar, strong plant, consistent good yield and quality						
Revelation	Synergistic, ears of acceptable appearance and taste for early maturity						
Renaissance	Promising results with good seedling vigor and good ear size and quality for maturity						
Bon Jour Polka Frisky	Homozygous se, with fair seedling vigor Synergistic, good for eating but fairly small ears and low yield (planted too far south?) Synergistic, good for eating but fairly small ears and low yield (planted too far south?)						
HMX 4380	Mediocre yield and ear size						
Nantasket	Synergistic, nice-looking ears but shallow kernels; some smut was noted in 2004						
MXH 12564	Good vigor and yield, attractive ears, sweet and tender, but only fair husk cover						
Accord Precious Gem Brocade	Good yield of medium-sized ears Good 80-day homozygous se, which has been a strong consistent performer 78-day se with long ears (8.1) of good quality except tip fill lacking when stressed						
Buccaneer	Long ear shanks; medium-sized husked ear are attractive, and kernels tender and sweet						
MXH 11467	Attractive, big ears, sweet and tender, but only fair husk cover of ear tip						
BC 0805	Attribute insect-protected (bt) hybrid with characteristics similar to <i>Providence</i>						
Charmed Providence Cameo	Synergistic, with appealing medium-sized ears (7.6 in. long) Recommended 84-day standard strong plant; large ears, excellent looking and eating Synergistic, nice-looking big ears and small flag leaves						
BC 1136	Synergistic, with good eating characteristics, but long, thin ears						

Supersweet cultiv	vars						
270A	Earliest sh2 in trial; good, early plant vigor, with a few secondary ears in the husk						
272A	Early, good-looking ears; lodging and husk cover have been problems previously						
Candy Corner	Standard midseason sh2; strong yield of attractive ears, fair to good eating quality						
274A	Excellent eating quality; attractive dark green husk and flag leaves						
Fantastic	Eating quality is very good, but the husk cover of the ear tips is less than desired						
Double Up	Sturdy clean plant, with nice ears that are sweet and crunchy						
Mirai 301BC	Excellent ear quality, tender and sweet; just fair emergence and seedling vigor ratings						
ACX 726	Medium-sized ears and yield						
ACX 950	Very sweet and tender but rather small ears covered with a lot of husk, long flags						
281A	Ears had refined uniform appearance; it is reported to have good disease resistance						
Obsession	Good yield with excellent ear quality, but there was lodging in previous plantings						
Mirai 327BC	Poor emergence and seedling vigor, big nice-looking ears that are good for eating						
BSS 0977	Attribute insect-protected (bt), 7.5 ears; nice looking and typical sh2 eating quality						
Polaris	Strong plants with large ears and yield; kernels are sweet but a little tough						
282A	Short pointed ears with good eating; it is reported to have multiple disease resistance						

Table 2. Sweet corn cultivar marketable vield and ear characteristics.

Cultivar Seed source by rigor parting! Dozen cars/A (covt/A) Yield ears (lb) husked (in) cover rating? Sugar-enhanced (se) and synergistic hybrids Temptation SM 82 E 2,017 168.2 4.5 7.7 G Revelation HM 82 F-G 1,485 113.6 4.4 7.8 G-F Renaissance HM 82 G-E 1,372 110.5 4.4 8.0 G Bon Jour MM 82 F-G 1,307 109.7 4.5 8.2 G Polka ST 82 F 1,307 109.7 4.5 8.2 G Frisky ST 82 F 1,001 79.1 4.5 7.5 G HMX 4380 HM 84 F-G 1,001 79.1 4.5 7.5 G NxH 12564 MM 91 G 1,743 170.3 5.5 8.1 F-G Procious Gem	Table 2. Sweet corn cultivar marketable yield and ear characteristics.											
Cultivar source DTH rating¹ ears/A (cwt/A) ears (lb) (in.) rating² Sugar-enhanced (se) and synergistic hybrids Temptation SM 82 E 2,017 168.2 4.5 7.7 G Revelation HM 82 F-G 1,485 113.6 4.4 7.8 G-F Renaissance HM 82 F-G 1,307 109.7 4.5 8.0 G Bon Jour MM 82 F-G 1,307 109.7 4.5 8.2 G Polka ST 82 F 1,077 72.8 3.8 7.6 G Frisky ST 82 F 1,077 72.8 3.8 7.6 G Frisky ST 82 F 896 57.7 4.0 7.2 F HMX4380 HM 84 F-G 1,001 79.1 <td></td> <td></td> <td></td> <td>Seedling</td> <td></td> <td></td> <td>Wt of 10</td> <td>Ear</td> <td>Husk</td>				Seedling			Wt of 10	Ear	Husk			
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274A ST 85 G-E 1,549 163.5 6.0 8.5 F-G Fantastic ST 85 G-E 1,501 158.3 5.7 8.2 F Double Up RG 85 G-E 1,388 152.5 5.2 8.3 G Mirai 301 BC HR 85 F 1,316 118.4 5.8 8.0 G ACX 726 AC 85 G 1,291 105.5 4.5 7.8 F-G ACX 950 AC 91 G-E 1,840 151.5 5.0 7.5 G 281A ST 91 G-E 1,662 154.7 5.4 8.1 G Obsession SM 91 F-G 1,630 153.5 5.2 8.2 G	0 1 0	D.C.	0.5	C F	1.004	165.1	4.0	7.0	C			
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ACX 950 AC 91 G-E 1,840 151.5 5.0 7.5 G 281A ST 91 G-E 1,662 154.7 5.4 8.1 G Obsession SM 91 F-G 1,630 153.5 5.2 8.2 G		. ~	0.5	~				- 0				
281A ST 91 G-E 1,662 154.7 5.4 8.1 G Obsession SM 91 F-G 1,630 153.5 5.2 8.2 G	ACX 726	AC	85	G	1,291	105.5	4.5	7.8	F-G			
281A ST 91 G-E 1,662 154.7 5.4 8.1 G Obsession SM 91 F-G 1,630 153.5 5.2 8.2 G	A CTT 0.50		0.1	G.F.	1.040	1515	7 0					
Obsession SM 91 F-G 1,630 153.5 5.2 8.2 G												
Miroj 227 DC UD 01 D 950 000 55 96 E.C.												
William 327 BC TIR 91 F 639 90.9 3.3 6.0 F-U	Mirai 327 BC	HR	91	P	859	90.9	5.5	8.6	F-G			
DOG 0077 DO 04 OF 2002 2004 70	DGG 0055	D.C	0.4	C.F.	2.222	202.4	<i>5</i> 3	7. 7	C			
BSS 0977 RG 94 G-E 2,292 203.4 5.3 7.5 G			-						_			
Polaris HM 94 G 2,163 228.1 6.2 8.5 G-F												
282A ST 94 F-G 1,630 151.9 5.6 7.4 G	282A	ST	94	F-G	1,630	151.9	5.6	7.4	G			
m:1	m: 1				1.626	1553		0.1				
Trial average 1,636 155.3 5.2 8.1		1 1	1	0 1								

That dvetage 1,050 155.5 5.2 6.1 Seedling vigor is based on plant size four weeks after planting, E=excellent, G=good, F=fair, P=poor. Husk cover: G=good, husk covers ear tip tightly; F=fair; P=poor, exposed ear tip and loose husk.