

Table 1. Yield, ear size and quality, and plant characteristics of sugar-enhanced sweet corn in Northern Indiana, 2003.

Cultivar	Co.*	Color	Days to Harvest (DAP)**	GDD to Harvest**	Yield of Marketable Ears (doz/A)	Yield of Marketable Ears (cwt/A)	Average Ear Weight (lb)	Ear Length (in)	Ear Diameter (in)	Husk Cover (1-9)#	Tip Fill (1-9)#	Overall (1-9)#	Emergence (%)	Lodge (1-9)#	Plant Ht. (1-3)#	Ear Ht. (1-6)#	Tillers (1-5)#	Vigor, 8/11 (1-9)#	Vigor, 6/5 (1-9)#
CSYBF2-46	CR	BI	78	1270	1283	79	0.51	7.0	1.60	4.0	9.0	5.0	80	1.0	1.0	1.0	2.0	5.0	5.5
Bon Appetit	MM	BI	81	1326	1404	120	0.71	7.0	1.88	9.0	9.0	7.5	64	3.0	2.8	2.3	1.0	4.5	3.5
CSYBF1-16	CR	BI	81	1326	1452	90	0.52	7.1	1.60	9.0	7.3	4.5	71	2.5	2.0	1.8	1.0	4.5	3.5
HMX0351	HM	BI	81	1326	1646	144	0.73	7.7	1.77	9.0	8.8	5.5	84	2.0	3.0	2.3	3.0	5.0	6.0
Navajo	ST	BI	81	1326	895	72	0.67	7.0	1.75	9.0	8.7	6.0	66	3.0	2.8	2.0	1.0	3.0	3.5
Luscious	MM	BI	84	1379	1210	112	0.76	7.4	1.85	9.0	7.2	6.5	57	2.5	3.0	2.3	1.0	4.5	2.5
Mystique	SW	BI	85	1397	1016	107	0.88	8.3	1.81	8.0	6.8	6.0	74	3.0	3.0	3.0	1.0	5.0	4.5
Ambrosia	CR	BI	88	1465	1355	121	0.74	8.2	1.92	7.7	2.8	3.0	62	2.5	3.0	3.0	1.0	5.0	4.0
Brocade	MM	BI	88	1465	1525	157	0.86	8.6	1.96	8.3	5.7	6.0	81	1.5	3.0	2.8	1.0	5.0	5.0
Chippawa	ST	BI	88	1465	1258	112	0.75	7.7	1.79	5.0	4.0	3.5	66	2.5	3.0	3.0	1.0	5.0	4.0
Accord	MM	BI	90	1507	1428	136	0.80	7.5	1.85	5.7	8.2	4.5	78	1.5	3.0	2.8	1.3	5.0	4.0
Colonial	SY	BI	90	1507	1331	109	0.69	8.2	1.71	8.8	5.5	3.5	79	4.0	2.3	2.8	1.3	6.0	5.5
Precious Gem	MM	BI	91	1542	1500	147	0.82	8.1	1.90	7.5	5.3	5.0	64	2.0	3.0	2.8	1.0	5.0	3.0
Providence	SY	BI	91	1542	1621	156	0.80	8.5	1.73	8.3	7.8	4.0	85	1.0	2.8	2.3	1.0	5.5	5.5
CSYBF1-12	CR	BI	92	1559	1452	130	0.75	8.0	1.94	6.5	6.8	4.0	58	1.0	2.0	2.3	1.0	5.0	4.0
CSYBF1-24	CR	BI	92	1559	1597	162	0.85	7.7	1.96	9.0	5.2	5.5	91	1.0	2.5	2.5	1.8	5.0	4.0
CSYBF1-27	CR	BI	92	1559	1646	161	0.82	8.3	2.13	6.5	5.8	4.0	69	2.0	3.0	3.5	2.3	6.0	4.5
Welcome	MM	Y	83	1355	1379	94	0.57	6.9	1.65	7.7	9.0	4.5	61	4.0	2.0	2.0	1.0	4.0	3.5
CSYYF1-15	CR	Y	84	1679	1621	131	0.67	7.9	1.67	9.0	5.3	4.0	71	1.5	3.0	2.8	1.0	5.0	4.5
Tuxedo	MM	Y	86	1416	1500	130	0.72	8.4	1.65	5.8	9.0	5.0	76	1.5	3.0	2.0	1.0	5.0	3.5
Honey Select	SY	Y	93	1578	1549	144	0.77	8.4	1.90	6.2	4.5	4.0	69	2.0	3.0	2.8	1.0	6.0	3.5
Incredible	RI	Y	94	1599	1525	147	0.81	8.5	1.98	3.2	2.5	2.5	67	2.5	3.0	4.0	1.0	6.5	3.5
Grand mean					1418	126	0.74	7.8	1.82	7.4	6.6	4.7	71	2.2	2.7	2.5	1.3	5.0	4.1
LSD .05†					312	33	0.10	0.5	0.11	-	-	-	NS	-	-	-	-	-	-
r ² for regression vs DAP††					0.18	0.54	0.48	0.54	0.45										

*Seed Source: CR=Crookham, HM=Harris Moran, MM=Mesa Maize, RI=Rispens Seeds, ST=Stokes, SW=Seedway, SY=Syngenta.

**DAP: days after planting.

***GDD: corn growing degree days.

#Husk cover, tip fill, overall, plant vigor: 1 to 9 scale; 2=poor (weak), 5=acceptable, 8=good (vigorous). Height: 1= <5 ft., 2=5-6 ft.; 3= > 6 ft.. Ear Ht. 1= < 12 in. to 6= >36 in.; Tillers: 1=no tillers to 5=many large tillers. Lodging: 1=no lodging; 9=maximum lodging.

†Means differing by more than this amount are significantly different at P≤.05. NS=Cultivar effect not significant.

††r² is the proportion of variability explained by harvest date.