

## Sweet Corn Variety Trial Results, 2001

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Sweet corn varieties with 'supersweet' (sh2) endosperm were evaluated in Northern Indiana at the Pinney-Purdue Ag. Center in 2001. Descriptions of the varieties based on trial results are provided below. Varieties that performed the best are indicated with an asterisk. A complete report of the trials, including methods and tables of yield and ear size averages, may be found in the Midwestern Vegetable Variety Trial Report for 2001, published by Purdue University.

The variety descriptions below begin with the variety name, followed by the seed source and days and growing degree days to maturity from planting for the 2001 trial. Sweet corn was planted June 11, 3 weeks later than most years due to wet weather. Several of the late varieties showed some poor pollination and below average tip fill, probably caused by dry hot weather and inadequate irrigation. The descriptions include information about disease resistance based on the 2001 report "Reactions of Sweet Corn Hybrids to Prevalent Diseases" by Jerald K. Pataky, University of Illinois, published in the report mentioned above. Varieties that have demonstrated at least moderate resistance to common rust (R), northern leaf blight (NLB), Stewart's wilt (SW), southern leaf blight (SLB), maize dwarf mosaic (MDM), gray leaf spot (GLS) and southern rust (SR) are indicated by including the abbreviation at the end of the variety description. Varieties that have demonstrated more than moderate susceptibility to these diseases are also noted.

### Bicolor

Extra Tender 270 A, Johnny's, 64, 1378

Ears, about 1.5 ft. off the ground, were wide and large-kerneled with below-average husk cover and good tip fill. Emergence was good. Yield was close to average. Plants were 5 to 6 ft. tall with few tillers. SLB. Very susceptible to SR.

Fantasy, Johnny's, 64, 1378

Ears about 1 to 1.5 ft. off the ground were relatively short and narrow with wide flag leaves. Husk cover was unacceptable and tip fill below average. Marketable yield was relatively low. Plants were 5 to 6 ft. tall with some small tillers. Very susceptible to SW, MDM, SR.

Saturn, Seedway, 69, 1450

Ears 1.5 to 2 ft. off the ground were of average size with excellent and tight husk cover and excellent tip fill. Some ears had extensions at the tip with extra kernels and male flowers. Plants were over 6 ft. tall with few or no tillers. This variety has performed well in previous years. Very susceptible to SR.

Gourmet Sweet 277 A, Stokes, 70, 1463

Ears 1.5 to 2 ft. off the ground were short and blunt but of average width with acceptable husk cover and excellent tip fill. Yield in numbers of ears per acre was among the highest in the trial. Plants were over 6 ft. tall with few or no tillers. SW, SLB.

ACX 733, Abbott & Cobb, 70, 1463

Ears 1.5 to 2 ft. off the ground were relatively short, blunt and narrow with flag leaves over 12" long, very good husk cover and tip fill. Emergence was the poorest in the trial at 70%. Plants were 5 to 6 ft. tall with few or no tillers.

BSS 1690, Rogers/Syngenta, 70, 1463

Ears about 1 to 1.5 ft. off the ground were the longest in the trial but of average width. Husk cover was below average and tip fill was very good. Plants were over 6 ft. tall with no tillers. NLB, SLB.

\*Extra Tender 275 A, Johnny's, 70, 1463

Ears about 2 to 2.5 ft. off the ground were of average size with excellent husk cover and tip fill. Yield was among the highest in the trial. Plants were over 6 ft. tall with few tillers. Susceptible to R. Very susceptible to MDM.

Gourmet Sweet 273 A, ST, 70, 1463

Ears 1.5 to 2 ft. off the ground were short and blunt with flag leaves over 12" long, average husk cover, and excellent tip fill. Plants were 5 to 6 ft. tall with few tillers. Susceptible to NLB. Very susceptible to MDM and SR.

\*Gourmet Sweet 276 A, Stokes, 70, 1463

Ears 1.5 to 2 ft. off the ground were blunt and wide with excellent husk cover and tip fill and upward-pointing flag leaves. Some uneven pollination was noted. Yield in pounds per acre was among the highest in the trial. Plants were 5 to 6 ft. tall with small tillers. SLB. Susceptible to MDM.

\*Extra Tender 275 A, Seedway, 71, 1474

Ears about 2 to 2.5 ft. off the ground had excellent husk cover and tip fill, and very long flag leaves. Yield was among the highest in the trial. Plants were over 6 ft. tall with few tillers. Susceptible to R. Very susceptible to MDM.

\*Gourmet Sweet 275 A, ST, 71, 1474

Ears about 2 to 2.5 ft. off the ground were wide with average husk cover, excellent tip fill, and very long flag leaves. Yield was among the highest in the trial. Plants were over 6 ft. tall with few tillers. Susceptible to R. Very susceptible to MDM.

Tethys, Rogers/Syngenta, 71, 1474

Ears about 2 ft. off the ground were narrow with poor husk cover and very good tip fill. Emergence was low compared to others in the trial (88%). Plants were over 6 ft. tall with few tillers. R. Very susceptible to MDM.

AAX 425, Abbott & Cobb, 72, 1484

Ears about 2 ft. off the ground had below average husk cover and excellent tip fill with medium to long flag leaves. Ears tended to have a long tassel at the tip. Yield in number of ears per acre was among the lowest in the trial. Plants were over 6 ft. tall with few or no tillers.

ACX 946, Abbott & Cobb, 72, 1484

Ears 1.5 to 2 ft. off the ground were narrow with excellent husk cover and below average tip fill. Some ears with tassels at tip. Emergence was low compared to others in the trial (85%). Yield was among the lowest in the trial. Plants were over 6 ft. tall with no tillers. R.

ACX 950, Abbott & Cobb, 72, 1484

Ears 2 to 2.5 ft. off the ground were small with below average husk cover, excellent tip fill, and very long flag leaves. Some twin ears and tassels on tips were noted. Emergence was low compared to others in the trial (83%). Yield in pounds per acre was among the lowest in the trial. Plants were 5 to 6 ft. tall with no tillers.

Tango, Crookham, 72, 1484

Ears 1.5 to 2 ft. off the ground were blunt and wide with average husk cover, long flag leaves and good tip fill. Yield was among the lowest in the trial. Plants were over 6 ft. tall with no tillers. SW, SLB.

HMX 8344 BS, Harris Moran, 73, 1498

Ears 2 to 2.5 ft. off the ground were of average size with good husk cover and below average tip fill. Plants were over 6 ft. tall with short tillers. R, MDM.

\*Attribute BSS 0977, Rogers/Syngenta, 73, 1498

Ears about 2 ft. off the ground were short and narrow with excellent husk cover, very good tip fill, and medium flag leaves. Yield in number of ears per acre was among the highest in the trial. Plants were over 6 ft. tall with short tillers. R, NLB. Very susceptible to MDM.

PS 9364169, PS, 73, 1498

Ears about 2 ft. off the ground were long with below average husk cover, average tip fill and medium to long flag leaves. Plants were over 6 ft. tall with few or no tillers.

AAX 638, Abbott & Cobb, 73, 1498

Ears 2 to 2.5 ft. off the ground were long with acceptable husk cover and well below average tip fill with bicolor kernels. Yield in number of ears per acre was among the lowest in the trial. Plants were over 6 ft. tall with no tillers.

HMX 8343 BS, Harris Moran, 74, 1521

Ears 2 to 2.5 ft. off the ground had excellent husk cover, well below average tip fill, and medium flag leaves. Yield in pounds per acre was among the highest in the trial. Plants were over 6 ft. tall with short tillers. R, NLB, SW, MDM, SLB.

PS 8201, PS, 74, 1521

Ears 2 to 2.5 ft. off the ground had excellent husk cover, well below average tip fill, and unusually thick shanks. Yield in pounds per acre was among the highest in the trial. Plants were 5 to 6 ft. tall with no tillers. R, NLB, SLB. Susceptible to MDM.

## Yellow

Gourmet Sweet 171 A, Stokes, 64, 1378

Ears 1.5 to 2 ft. off the ground were among the smallest in the trial with well below average husk cover, excellent tip fill, and some tassels at tip of ear. Yield among the lowest in the trial. Plants were 5 to 6 ft. tall with few or no tillers. SW.

\*Cronus, Rogers/Syngenta, 69, 1450

Ears 1.5 to 2 ft. off the ground were attractive, short and blunt but wide with very good husk cover and excellent tip fill. Plants were over 6 ft. tall with few or no tillers. R. Susceptible to SR.

AAX 774, Abbott & Cobb, 71, 1474

Ears 1.5 to 2 ft. off the ground were wide with short flag leaves and good husk cover and tip fill. The husk color was light green. Yield in pounds per acre was among the highest in the trial. Plants were 5 to 6 ft. tall with no tillers.

PS 8004, PS, 71, 1474

Ears 2 to 2.5 ft. off the ground were long with tassellate tip, well below average husk cover, and very good tip fill. Plants were over 6 ft. tall with no tillers. SLB.

ACX 945, Abbott & Cobb, 72, 1484

Ears 1.5 to 2 ft. off the ground were long with below average husk cover, short to medium flag leaves and excellent tip fill. Yield in number of ears per acre was among the lowest in the trial. Plants were over 6 ft. tall with few or no tillers. R.

\*Attribute GSS 0966, Rogers/Syngenta, 72, 1484

Ears 2 to 2.5 ft. off the ground were small with very good husk cover and excellent tip fill. Yield was among the highest in the trial, with two ears per plant not uncommon. Plants were over 6 ft. tall with very few tillers. R. Very susceptible to MDM.

Crisp 'n' Sweet 710 A, Crookham, 72, 1484

Ears 2 ft. off the ground were long with very good husk cover and excellent tip fill. Some ears had tassel and extra kernels at tip. Yield in number of ears per acre among the lowest in the trial. Plants were over 6 ft. tall with no tillers. NLB, SLB. Very susceptible to MDM.

HMX 8392 S, Harris Moran, 73, 1498

Ears 2 to 2.5 ft. off the ground had excellent husk cover and well below average tip fill. Some poor pollination noted. Emergence was low compared to others in the trial (87%). Plants were over 6 ft. tall with short tillers. R, SW, SLB.

7640, Abbott & Cobb, 74, 1521

Ears about 2.5 ft. off the ground were long with below average husk cover and well below average tip fill. Poor pollination was noted. Yield was among the lowest in the trial. Plants were over 6 ft. tall with no tillers.

GSS 3381 VP, Rogers/Syngenta, 76, 1559

Ears almost 3 ft. off the ground had very good husk cover but were not well developed and did not have good tip fill. Yield was the lowest in the trial. Plants were taller than 6 ft. with short tillers. R, NLB, SW, SLB, GLS. Very susceptible to MDM.

## White

Millennium, Seedway, 74, 1521

Ears about 2 ft. off the ground were long and wide with somewhat below average husk cover and tip fill and medium flag leaves. Quality of ears was variable. Yield was among the lowest in the trial. Plants were over 6 ft. tall with no tillers. R, NLB, SW, MDM, SLB.