

N. Y. S. 2006 PROCESSING SWEET CORN VARIETY AND SNAP BEAN REPLICATED AND OBSERVATION TRIAL EXECUTIVE SUMMARY

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Sweet Corn: 26 replicated and 6 observation su type cultivars and 13 replicated and 11 observation supersweet types from eight seed companies were evaluated in 2006. Below is a short list of the cultivars that were included. Our objective was to find cultivars with superior consistent yield, high levels of disease resistance and good processing characteristics. Full Reports Available Upon Request - jwb2@cornell.edu

Su type

C150 - Early to midseason maturity, moderate Stewarts Wilt symptoms, poor husk extension, a few curved ears in the first planting, slightly tapered ears with medium size and shallow to medium depth kernels, good recovery, possibly too tapered for cob so cut kernel would be best market use, good to very good overall ear rating, very good yield in the first planting.

C174 - Early maturity, good sized ears for this season, moderate Stewarts Wilt symptoms, decent husk extension, long ear shanks might be a problem with mechanical harvester if hanging over too far, very uniform, cylindrical to slightly tapered, round ears; medium to large kernels that were shallow to medium in depth, kernels cut very well with good recovery, straight rows, market use could be both cob or cut, good yield, good to very good overall ear rating, very consistent over the past three years especially as an early season cultivar.

C1-3 - Early to midseason maturity, good husk extension and decent fill, very good ear uniformity, cylindrical, round ears with medium to large kernels, medium depth and straight rows; slight Stewarts Wilt symptoms, very good overall ear rating and very good yield.

HMX 2390 - Midseason maturity, minimal to poor husk extension, good tip fill, round, cylindrical to slightly tapered ears with small to medium kernels and medium to deep kernel depth; high row count, very good ear uniformity, very good yield, slight Stewarts Wilt symptoms, very good overall ear rating, probably best for cut kernel but should be able to use for both cob and cut kernel.

C83 - Early to midseason maturity (my days to harvest make it more of a midseason maturity but it was harvested overmature), moderate amount of plant lodging, decent husk extension, slight to moderate Stewarts Wilt symptoms, long, cylindrical to slightly tapered ears, very good ear uniformity and rowing, medium to large kernels with shallow to medium depth, dome style kernels, ears were not filled but uniformly so, very good overall ear rating, kernels may be a bit too big for cob but possibly could be used for both, very good yield.

XP 5640 - Mainseason maturity, decent husk extension, not filled but uniformly so, long, slender, cylindrical, round ears with high row count; very good ear uniformity and yield, overall ear rating was very good, shallow kernels hurt recovery but should meet qualifications for both cut kernel or cob.

C2-28 - Mainseason maturity, good husk cover, not quite filled, cylindrical, round ears with small to medium sized kernels, very good ear uniformity, very good yield and overall ear rating, slight to moderate Stewarts Wilt symptoms, market use would be either cut kernel or cob.

C62 - Mainseason maturity, very good husk extension and tip fill, cylindrical to slightly tapered, round ears with straight rows; small to medium kernel size and medium to deep in depth, very good to excellent ear uniformity, very good yield and recovery, very good to excellent overall ear rating, market use would be either cut kernel or cob.

C173 - Mainseason maturity, poor husk extension, not filled but uniformly so, large diameter, cylindrical, round ears with small kernels and straight rows; very good ear uniformity, a few curved ears, very good to excellent yield and recovery, very good overall ear rating, best market use would be cut kernel.

Supersweets

Overland - Mainseason maturity, uniform, healthy plants; long ear shanks might be a concern, poor husk extension, decent tip fill, large diameter, long, cylindrical, round ears with straight rows and deep kernels; very good ear uniformity, excellent yield and recovery, very good overall ear rating, cut kernel best market use as might be a bit big for cob, processed color quite good.

8117 - Mainseason maturity, minimal to poor husk extension, very good to excellent tip fill, large diameter, cylindrical to slightly tapered, round ears with deep kernels, high row count, very good to excellent ear uniformity, very good yield, recovery and overall ear rating; soft pericarp, slight to moderate Stewarts Wilt symptoms, cut kernel probably the best market use.

Snap Beans: The following snap bean types were evaluated in three separate plantings –Large Sieve Bean Type (18 replicated and 6 observation entries), 4Sieve type green (12 replicated and 4 observation entries) Wax (3 replicated and 3 observation entries) and Whole Bean (10 replicated and 2 observation). The following is a sample of these cultivars. The objective of this trial was to evaluate newer cultivars with superior yield,disease tolerances and good processing characteristics. The full report is available upon request.

4Sieve Type

BSC 844 – Early season maturity, erect plant type (better than BSC 847), very good set, three – four sieve type, medium to dark green, round to oval pods; very good yield.

Dart – Early season maturity, tall, erect plants; high percentage of four sieve pods at maturity, medium to dark green, round, straight pods; good yield.

Firstmate – Early season maturity, decent plant habit, concentrated set with a high percentage of four sieve pods at maturity, medium to dark green, round pods; good yield.

BSC 847 – Midseason maturity, somewhat recumbent plants, long, dark green, round pods; (possibly more uniform seeds compared to BSC 844), very good yield.

Caprice – Midseason maturity, tall, erect plant; very good set, high percentage of four sieve pods, dark green, straight, round to slightly oval, shiny pods; pod flesh still good quality when overmature, very good yield.

EX 0693 – Midseason maturity, tall, erect plants; long, dark green, round, uniform, straight pods located high on the plant; possibly a bit of fiber, high percentage of four sieve pods, very good yield, one of the best of this group.

BSC 864 – Mid to mainseason maturity, decent plant habit, dark green, long, round to creased, straight pods; good to very good pod set, high percentage of four sieve pods with a small percentage of five sieve pods, probably could have been harvested another time, very good yield.

BB 2176 – Mid to mainseason maturity, erect plant habit, thin to good pod set, dark green, round, uniform, straight pods located high on the plant; probably could have been harvested another time, high percentage of four sieve pods, some leafhopper injury, some fiber, decent yield.

Wax type

XP703 – Mainseason maturity, large sieve type, slightly recumbent plant type, very good pod set, long, straight, round to creased pods; high percentage of four sieve pods with a small amount of five sieve pods, excellent yield.

SB 4314 – Early to midseason maturity, two sieve whole bean type, short plants with erect plant habit, very good pod set, short, round, uniform, straight pods; a small amount of green, good to very good yield.

Concador – Early to midseason maturity, two sieve whole bean type, decent plant habit, very good pod set, some leafhopper injury, round, very straight pods; pods a bit longer than SB 4314 and Golden Child, a small amount of green, good to very good yield.

Addition Comments Whole Beans

(smallest sieve to larger sieve)

Bousca – Early season maturity, very small sieve, erect plant habit, medium green, round, smooth, very straight pods; limited yield.

Banga – Early to midseason maturity, very small sieve, erect plant habit, dark green, round, very straight pods; very good set and yield for this size of bean.

Stayton – Early season maturity, two sieve type, some plants slightly recumbent, very good pod set, long, medium green, round, straight pods; very uniform seeds, can become overmature if not monitored closely as large seeds are not obvious, good yield.

SB 4327 – Early to midseason maturity, three sieve type with a small percentage of four sieve, medium to dark green, round, very straight pods; good to very good yield.

HMX 4953 – Mainseason maturity, three sieve type with a substantial percentage of four sieve pods, decent plant type, very dark green, round, straight pods; good yield.