

## N. Y. S. 2005 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 12 replicated and 10 observation supersweet types from seven seed companies were evaluated in 2005. 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](mailto:jwb2@cornell.edu)

### Su type

**C174** – Early maturity, stout plant, long ear shank, moderate Stewarts Wilt symptoms, minimal husk extension in the first planting, very good ear uniformity, long, slender, cylindrical ears with straight rows; shallow to medium depth, good flavor, good yield and very good overall ear rating, good for both cut kernel or cob.

**C151** – Early to midseason maturity, plant population less than optimum, slight to moderate Stewarts Wilt symptoms, some minor Common Rust symptoms, a few ears infected with Common Smut, poor husk extension, long, slender, cylindrical, uniform ears with good rowing; some slightly curved ears, medium to large kernels, shallow to medium kernel depth, seems to mature quickly (change in moisture percentage), good recovery, could be used for both cut kernel or cob.

**C83** – Early to midseason maturity, poor husk extension in the first planting, long, very cylindrical, uniform ears with straight rows and medium size kernels; shallow depth, a few ears with gaps at the butt end where kernels had not formed, decent yield, would make decent cob but possibly kernels too shallow for cut kernel use.

**C62** – Mainseason maturity, stout, clean plant; slight Stewarts Wilt symptoms, very good husk extension and tip fill, very uniform, cylindrical to slightly tapered ears with small to medium kernels; medium to deep kernel depth, pericarp a bit tough, decent yield and recovery, good for cut corn or cob.

**C128** – Mainseason maturity, minimal husk extension, very long, uniform, heavy, large diameter, tapered ears with small to medium kernel size; medium to deep kernel depth, soft pericarp, a few curved ears noted, high yield and recovery, too tapered and large for cob, excellent for cut kernel market (might be worthwhile to look at this cultivar at higher populations).

**C175** – Mainseason maturity, good husk extension and very good to excellent tip fill, good ear weight, uniform, cylindrical ears with small to medium kernels; medium to deep kernel depth, ears significantly shorter in the second planting, some slightly oval ears noted, good yield and recovery, good for both cut kernel and cob.

**C166** – Mainseason maturity, stout, dark green plants; some tassie smut noted, minimal husk extension, ears not filled but uniformly so, long, heavy, large diameter, uniform, cylindrical to slightly tapered ears with straight rows; medium size kernels, medium to deep kernel depth, high number of curved ears in the second planting hurt overall score, high yield and recovery, cut kernel would be its best market (too long and too large in diameter for cob – this cultivar might also be looked at under higher populations).

### **Supersweet Type**

**ACX 1138Y** – Early to midseason maturity, minimal husk cover, a few ears infected with Common Smut, very good tip fill, cylindrical, uniform ears with medium size kernels, medium kernel depth, butt end a bit tapered, decent yield and recovery, should be good for both cut kernel or cob.

**8117** – Midseason maturity, some minor plant lodging, very good husk cover and excellent tip fill, short, large diameter, slightly tapered to tapered, uniform ears with medium size and medium depth kernels; very good yield and recovery, cut corn only (probably too large diameter and tapered for cob).

**GSS 8357** – Midseason maturity, very good husk cover and excellent tip fill, very uniform, slightly tapered to tapered ears with medium size kernels; medium kernel depth, very good yield, cut corn best use (possibly too tapered for cob).

**Max** – Midseason maturity, trial standard, very good husk cover and tip fill, short, cylindrical, very uniform ears with medium size kernels; medium to deep kernel depth, some curved ears noted, decent yield, would work well for both cut kernel and cob.

**Basin** – Midseason maturity, good husk cover, ears not filled but uniformly so, very long, cylindrical to slightly tapered, uniform ears with straight rows and medium size kernels; medium kernel depth, very good yield, should be able to be used for both cut kernel and cob (possibly too long for cob).

**Snap Beans:** The following snap bean types were evaluated in three separate plantings –Large Sieve Bean Type (12 replicated and 9 observation entries), 4Sieve type green (7 replicated and 5 observation entries) Wax (5 replicated and 4 observation entries) and Whole Bean (9 replicated and 3 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**

**XP 0733** – Early season maturity, dark green, round pods; high percentage of 4 sieve pods, decent set and yield.

**Dart** – Early maturity, tall, erect plants; dark green, round, straight pods; good set and good yield.

**Matador** – Midseason maturity, tall, erect plants; long, dark green, straight, round to creased pods; good set, probably could have been harvested another time which would have influenced yield.

**Igloo** – Mid to mainseason maturity, a commercial standard in NY for a number of years and why it was only harvested once; long, some plants were recumbent, medium green, round to creased pods; good pod set.

**Caprice** – Mid to mainseason maturity, erect plant habit, dark green, uniform length, round pods; good set and yield.

**Scuba** – Mainseason maturity, tall, erect plants; seemed to hold in field quite well, could have been harvested at least one more time if not twice without being overmature; medium dark green, round to creased pods; good set and yield.

**Sumo** – Mainseason maturity, tall, very erect plants; more of a three-four sieve type, short, medium green, round, straight pods located high on the plant; thin pod set.

#### **Replicated Entries (Wax)**

**Goldmine** – Midseason maturity, commercial wax standard for NY, somewhat recumbent plant, round to oval, straight pods; good set and good yield.

**XP0703** – Mainseason maturity, better plant habit than Goldmine, high percentage of 4 sieve pods with a few five sieve pods, long, round, golden yellow pods; probably could have been harvested one more time, good set and good yield.

**Sonesta** – Mainseason maturity, a three–four sieve type, straight, golden yellow pods located high on the plant; plant population a little lower than optimum due to small seed being sucked through seed plates, very good pod set and yield.

**XP 0661** – Early to midseason maturity, two-three sieve type, slightly recumbent plant type, very straight, round to oval pods; very good set and yield.

**Soleil** – Midseason maturity, a two sieve pod type, long, golden, round to oval, straight pods; decent set and yield.

#### **Whole Bean**

**Banga** – Midseason maturity, very small sieve, very good plant habit, long, round, medium green, uniform, straight pods (very nice pod appearance); decent set.

**Clarion** – Midseason maturity, erect plant habit, very small sieve type, medium dark green, round, very straight pods; decent set.

**Masai** – Midseason maturity, trial standard, very erect plant habit, very small sieve, medium green, short, round, straight pods; thin set.

**Stayton** – Early maturity, erect plant habit, small sieve, harvested very overmature, erect plant habit, long, light to medium green, round pods; some physiological red flecking on both pods and leaves, good set.

**PLS 75** – Mid to mainseason maturity, plant habit not as good as most others, 2-3 sieve type, short, light to medium green, round, straight pods; good set.

**Excalibur** – Midseason maturity, erect plant habit, 2-3 sieve type, long, round, very dark green pods; good set and good yield.

**HMX 4953** – Mainseason maturity, erect plant habit, 3-4 sieve type, possibly immature at harvest, shiny very dark green, round, short pods; decent set.

**Slenderpack** – Mid to mainseason maturity, erect plant habit, a 3-4 sieve type, dark green, round pods; very consistent good set and yield since it has been trialed in Geneva.