

**Report to the Oregon Processed Vegetable Commission
1992-1993**

1. **Title:** Supersweet Corn Variety Evaluation
2. **Project Leaders:** J. R. Baggett, Horticulture
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3. **Project Status:** Terminating June 30, 1993
4. **Project Funding:** \$2,500 field trials
\$1,575 supplemental technical support (field trials)
\$4,493 processing
\$8,568

Funds were used for research farm expenses and labor for harvesting, processing, and evaluation of corn samples.

5. **Objectives:** To determine the production and processing potential of new introductions of sweet corn.
6. **Report of Progress:**

A. Replicated plot trials of standard sweet (su) and SE (sugary enhanced) corn varieties were planted on May 13, 1992, and supersweet (sh) varieties were planted in a separate field on May 29. In each case, there were four replications, each 30 feet long in rows three feet apart. Replications were arranged in randomized blocks. In the May 13 planting, the SE varieties were separated from the su varieties by a block of SE rows to minimize the effect of the su on SE varieties. Yellow and bi-color varieties were grown together. Jubilee was inadvertently omitted as control for field performance, but samples were obtained from other plantings on the research farm for quality comparisons. In the May 29 planting, white sh varieties were separated from yellow varieties to minimize the occurrence of yellow kernels in the white varieties. Additional varieties of each type of corn were planted in non-replicated plots for observation and yield estimates.

In each planting, plots were overseeded and thinned to stand about 9" apart, or a population of 19,000 per acre. Harvests were made at about 71-72% moisture as determined by subjective evaluation. Factors observed are shown in the tables. Except for descriptive observations (Tables 3 and 6), and for the observation plots, all data were obtained separately for each replication. Plant vigor and yields as shown in the tables were much higher in the SE-su trial than in the sh trial. Direct comparisons of yields between these two trials is not possible.

Varieties which appeared to have promise for processing were canned and frozen at the Food Science and Technology pilot plant. Objective data and panel evaluations of processed corn samples will be reported at a later date.

- B. Varieties noted to have merit and probably worthy of further trial are listed below. All are yellow unless otherwise noted.

SE Varieties:

- GH 2419 -** large ears, very tender, good yield (8.2 T/A), refined, fair flavor and overall score
- GH 2684 -** good ear weight and length, tender, fair flavor, and good overall score, resembles GH 2419
- XPH 3013 -** fair to good yield, large ears, fairly tender, fair flavor and overall score
- GH 2757 -** very good yield and ear size, but overall score only fair, tender
- GH 1676 -** medium size ear, very tender, good flavor, fair overall score, good yield
- More -** fair yield, medium ear size, fairly tender, fair overall score but low flavor score, pale color
- Fancy Full -** (bi-color) good yield, not tender, high score for flavor and sweetness
- Calico Belle -** (bi-color) very good yield and ear size, good flavor, overall score fair, tender

Sweet (su) Varieties:

- GH 1703 -** fair to poor yield, medium toughness, an early Jubilee type with good ear length, fair scores for overall and flavor
- GH 2535 -** good yield, ear size, and length; medium tenderness; overall score fair, flavor poor; some curved ears
- Eliminator -** very good yield and large long ears, medium tough, good overall and flavor scores
- Renown -** good yield, large fat ears, tender and good flavor, good overall score, but curved ears noted
- HMX 9373 -** fair yield, medium ear size, tender, very good overall and flavor scores, considered nice looking and tasty
- GH 2628 -** good yield and ear size, tough, fair flavor and good overall score

Supersweet (sh₂) Varieties:

- FMX 324 -** fair yield, large ears, tender, good flavor and overall score

Sweet Ear - fair yield, large ears, tender, good overall and flavor scores

Crisp 'n Sweet 710 - fair yield, good ear size, tough, good flavor, fair overall, many curved ears

GSS 3710 - fair yield, ears slightly small, tough, good overall and flavor scores, somewhat coarse

FMX 329 - good yield, large ears, tough, good overall and flavor scores, very uniform ears

GSS 3492 - good yield and ear size, very good flavor and overall scores, hard to pick and too tough

XPH 3036 - fair yield, good ear size, tough, refined but variable ears, good flavor

FMX 284 - fair yield, big long ears, tender, curved, overall and flavor scores fair

Zenith - good yield, medium ear size, fairly tender, good flavor, but too many curved

Showcase - fair yield, less than one good ear/plant, tender, good flavor, fair overall score, variable

Supersweet Jubilee - good yield, good ear size, tender, uniform, good overall and flavor scores

7. Summary:

Thirty-four SE and sweet (su) varieties, and 27 supersweet varieties, of corn were tested in replicated or observation plots. Eight SE, six sweet, and 11 supersweet varieties were considered to be of interest and candidates for further testing. About 20 varieties were canned and frozen for objective evaluations and industry panel evaluations.

8. Signatures: Redacted for Privacy

Project Leaders:

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Department Heads:

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Table 1. Yield and ear measurements, sugary enhancer (se) and sweet (su) corn replicated trial, Corvallis, 1992.¹

Variety	Source ²	Type ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
Earlivee	1	Y su	7/9	84	26	16.2	3.9	0.9	4.5	0.7	0.48	6.6	1.9	11.5	151
Bingo	1	Y su	7/18	92	28	22.1	5.7	1.1	1.1	0.2	0.51	7.2	2.0	12.5	138
FMX 292	3	Y su	7/19	93	26	22.1	6.3	1.1	1.8	0.3	0.58	8.1	1.9	11.8	136
GH 1703	4	Y su	7/17	93	24	18.7	6.3	1.1	0.2	0.1	0.68	8.2	2.0	12.5	145
GH 2535	4	Y su	7/19	96	26	24.9	8.4	1.5	2.4	0.5	0.69	8.1	2.1	13.0	134
Quicksilver	2	W su	7/17	96	27	24.0	7.6	1.2	1.5	0.2	0.64	7.4	2.0	12.2	130
Eliminator	1	Y su	7/20	97	26	28.5	10.4	1.7	2.2	0.4	0.75	8.6	2.0	11.5	145
Renown	1	Y su	7/20	97	25	26.5	9.4	1.6	5.3	1.0	0.71	8.2	2.1	12.5	109
HMX 9373	2	Y su	7/20	98	26	22.7	7.1	1.2	3.1	0.5	0.62	7.9	2.1	11.5	111
Rely	1	Y su	7/21	98	26	25.4	8.7	1.3	1.6	0.3	0.69	8.2	2.1	12.8	114
HMX 9372	2	Y su	7/23	98	27	22.7	6.9	1.2	2.9	0.5	0.61	8.2	2.0	11.2	117
HMX 8396	2	Y su	7/26	98	27	20.7	5.9	1.1	1.1	0.2	0.58	8.7	1.8	9.5	94
GH 2628	4	Y su	7/25	98	28	24.3	7.8	1.2	2.5	0.4	0.65	8.5	2.0	12.0	147
Champ	5	Y se	7/12	89	28	22.5	6.0	1.2	0.7	0.1	0.54	7.2	1.9	10.8	131
GH 2419	4	Y se	7/17	92	28	26.3	8.2	1.2	0.4	0.1	0.66	8.5	1.9	11.5	96
GH 2684	4	Y se	7/18	92	28	30.9	8.2	1.7	0.7	0.1	0.53	8.4	2.0	12.0	116
Silverette	2	W se	7/18	92	27	25.2	5.9	1.4	2.5	0.2	0.47	7.4	1.8	11.0	152
XPH 3013	5	Y se	7/19	93	27	22.7	7.1	1.3	0.7	0.1	0.63	7.8	2.0	11.2	133

Table 1. Yield and ear measurements, sugary enhancer (se) and sweet (su,) corn replicated trial, Corvallis, 1992 (cont.).¹

Variety	Source ²	Type ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
XPH 3012	5	Y se	7/19	93	27	23.2	7.5	1.0	1.6	0.2	0.67	8.6	2.0	11.2	136
XPH 3048	5	Y se	7/20	96	28	23.4	7.9	1.2	3.6	0.7	0.68	7.7	2.1	12.8	134
GH 2757	4	Y se het	7/20	97	28	34.5	10.7	1.7	1.8	0.3	0.63	8.2	2.1	12.8	115
GH 1676	4	Y se	7/20	97	29	28.7	7.9	1.6	2.2	0.4	0.56	7.5	2.0	12.5	99
HMX 8395 E	2	Y se	7/20	97	26	17.8	5.3	1.0	2.9	0.5	0.60	8.4	2.0	11.5	122
More	5	Y se	7/21	97	27	24.5	6.8	1.3	1.5	0.3	0.56	7.9	2.0	11.5	128
Silverado	2	W se	7/21	97	26	19.6	5.8	1.0	0.9	0.1	0.60	7.6	1.9	11.0	126
LSD at 5%						4.7	1.5	0.03	1.9	0.3	0.10	0.3	0.1	1.1	18

¹Planted May 13 in rows 36" apart, thinned to 9" between plants. All values shown are means of 4 replications, arranged in randomized complete blocks. All data except cull no. and T/A were obtained from typical husked good ears. For ear length, ear diameter, and tenderness, the value used for each replication was the average for 5 individual ear measurements.

²Sources: 1 = Crookham, 2 = Harris-Moran, 3 = Ferry Morse, 4 = Rogers, 5 = Asgrow.

³Endosperm type: Y = yellow, W = white, su = sweet, se = sugary enhancer.

⁴Tenderness determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

Table 2. Yield and ear measurements, sugary enhancer (se) and sweet (su) corn observation trial, Corvallis, 1992.¹

Variety	Source ²	Type ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
Sweet Dawn	1	Y se	7/9	84	26	30.2	6.9	1.6	2.9	0.3	0.46	7.3	1.8	9.5	124
White Magic	1	W su	7/14	89	31	20.9	5.2	1.2	0	0	0.50	6.5	1.9	11	161
GH 1574	2	Y se	7/17	106	22	25.4	7.3	1.6	4.4	1.1	0.58	7.8	2.0	14	125
Illumination	3	W se	7/13	106	29	22.5	5.8	1.1	4.4	0.6	0.52	7.2	1.8	14	120
Fancy Full	3	B se	7/15	107	27	31.2	9.0	1.6	3.6	0.7	0.58	7.6	2.0	14	179
Legend	1	Y se	7/12	107	26	25.4	7.5	1.3	0	0	0.61	7.1	2.1	13	124
Sensor	4	B se	7/19	109	22	24.7	7.5	1.5	0	0	0.61	8.2	2.0	12	81
Calico Bell	4	B se	7/18	109	30	34.8	12.0	1.6	2.2	0.5	0.69	7.4	2.2	14	106
Tender Delight	2	Y se	7/25	113	25	24.7	7.5	1.4	4.4	0.7	0.61	8.1	2.0	13	109

¹Planted May 13 in rows 36" apart, thinned to 9" between plants. Yield estimates are from a single 20' plot. All data except cull no. and T/A were obtained from typical husked good ears. For ear length, ear diameter, and tenderness, the value shown is the average of 5 individual ear measurements.

²Sources: 1 = Harris-Moran, 2 = Rogers, 3 = Liberty, 4 = Asgrow.

³Endosperm type: Y = yellow, W = white, B = bi-color, se = sugary enhancer, su = sweet.

⁴Comparative scale determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

Table 3. Descriptive observations, sugary enhancer (se) and sweet (su₁) corn variety trial, Corvallis, 1992.¹

Variety	Source ²	Kernel Refinement	Row Straightness	Tip Fill	Cylind. Shape	Ear Unif.	Mat. Unif.	Kernel Unif.	Flavor	Overall Score	Row #	Notes
Earlivee	1	2	3	4	3	1	3	1	2	1.5	12-16	highly variable
Bingo	1	5	5	4	2	4	3	4	2.5	3	16-18	too short, poor yield, good color
FMX 292	2	3	4	5	4	4	4	4	3	3	20	pale color, many ears have skips and poor pollination
GH 1703	3	2	3	4	3	3	4	2	3	3	16-18	good color, large ears
GH 2535	3	2	2	4	4	3	4	2	2	3	16-20	good size and shape, slightly pale, uneven kernels, some curved ears
Quicksilver	4	4	3	5	4	3	3	4	2	2.5	18-22	small ears, some curved
Eliminator	1	3	4	3	3	3	3	4	3.5	3.5	18	long narrow ears, mostly nice looking and even but some skips and gaps, tough
Renown	1	5	2	3	4	2	4	3	3.5	3.5	20-22	fat ears, many curved, many very small
HMX 9373	4	5	5	3	4	4	4	4	4	4.5	16-18	very nice looking and tasty
Rely	1	4.5	4	3.5	4	4	5	5	3.5	4.5	20	large ears, good flavor, not sweet
HMX 9372	4	4	3.5	3	3	3.5	4	4	3	4	20-24	variable for tip fill and overall ear uniformity, good flavor, slightly sweet
HMX 8396	4	3	3	3.5	4	4	4	3	3	3	16	nice looking, flavor OK
GH 2628	3	4	3	2-5	4	2	3	3	3	3.5	16-20	
Champ	5	3	3	5	5	4	4	3	2	2.5	16-18	uniform, nice looking but poor yield and flavor--not sweet
GH 2419	3	4	5	2	5	4	4	3	3	3.5	16	second ears much smaller but mature and otherwise OK
GH 2684	3	4	5	2	5	3	4	3	3	3.5	16	looks like GH 2419
Silverette	4	4	3	3	3	4	4	3	3	3	18-24	

Table 3. Descriptive observations, sugary enhancer (se) and sweet (su₁) corn variety trial, Corvallis, 1992 (cont.).¹

Variety	Source ²	Kernel Refinement	Row Straightness	Tip Fill	Cylind. Shape	Ear Unif.	Mat. Unif.	Kernel Unif.	Flavor	Overall Score	Row #	Notes
XPH 3013	5	3	3	5	4	3.5	4	3	3	3.5	16-18	uniform, neat ears, light color
XPH 3012	5	3	3	3	4	4	4	3	4	3.5	18	small ears, some curved
XPH 3048	5	3	3	4	2	2	2	2	2	2.5	16	not sweet, second ears small, immature, poor tip fill
GH 2757	3	4	2	1	2	2	3	3	3	2.5	18	tender, slightly sweet
GH 1676	3	4	3	4	4	2	2	3	4.5	3	14-16	small ears, sweet
HMX 8395 E	4	5	2	2	3	2	2	3	3	2.5	18-20	some very bad tips, some skips and gaps
More	3	3	3	4	3	3	2	3	2	3	20	pale
Silverado	4	4	3	4	4	3	4	3	2	3	16-20	some curved ears
Sweet Dawn	4	3	2	4.5	2	3	3	2.5	3	2.5	14-16	pale yellow
White Magic	4	3	3	5	4	2	3	3	1	2	14-18	variable kernels, not sweet
GH 1574	3	3	2	4	2	2	2	2	2.5	2	16-18	pointed ears, rough
Illumination	6	2	2	1-4	2-4	1	3	2	2.5	1.5	14-16	small ears, highly variable
Fancy Full	6	3	3	3	4	3	4	3	5	4		sweet, good flavor
Legend	4	4	3	5	5	4	5	4	2	3.5		short fat ears, not sweet
Sensor	5	2.5	4	4	3	4	4	3	4	3.5	16-18	very pointed tips, tender, good flavor
Calico Bell	5	3.5	3	4	3	4	4	3.5	3.5	3	18-20	nice looking, good flavor
Tender Delight	3	2	3	1	4	2	2	2	3	2	16	coarse, rough, pale color

¹Planted May 13. Scores 1-5 scale, 5 = best. Overall score related to general characteristics of harvested ears.

²Sources: 1 = Crookham, 2 = Ferry Morse, 3 = Rogers, 4 = Harris-Moran, 5 = Asgrow, 6 = Liberty.

Table 4. Yield and ear measurements, supersweet (sh₂) corn replicated trial, Corvallis, 1992.¹

Variety	Source ²	Color ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
XPH 3027	1	Y	7/24	84	28	21.4	5.6	1.1	2.5	0.4	0.53	8.2	1.9	11.0	82
FMX 324	2	Y	7/28	87	26	16.7	6.2	0.9	2.7	0.7	0.75	8.2	2.2	10.5	110
Sweet Ear	2	Y	7/29	87	27	18.3	5.7	0.9	3.6	0.8	0.63	8.2	2.1	10.0	105
Crisp 'n Sweet 710	3	Y	7/29	90	28	18.7	6.0	0.9	2.5	0.5	0.64	8.7	2.0	12.0	139
FMX 322	2	Y	7/31	90	24	18.2	5.6	1.0	3.1	0.7	0.63	7.8	2.1	11.8	122
XPH 3055	1	W	7/31	90	29	19.8	5.7	0.9	1.6	0.4	0.58	6.9	3.3	11.8	143
GSS 3710	4	Y	8/2	91	25	24.5	6.0	1.4	0.7	0.1	0.52	7.6	2.0	12.0	139
FMX 329	2	Y	7/30	91	27	20.0	7.2	1.0	0.5	0.1	0.72	8.0	2.1	12.2	150
FMX 330	2	Y	8/1	91	24	16.3	5.7	0.9	0.9	0.2	0.70	7.8	2.2	12.0	154
GSS 3492	4	Y	7/30	91	25	21.2	6.7	1.2	1.1	0.2	0.64	7.8	2.1	14.0	156
XPH 3036	1	B	8/1	91	28	18.7	5.7	0.9	2.2	0.4	0.61	7.8	2.0	11.5	144
Snow White	5	W	8/3	95	26	21.8	7.3	1.2	1.3	0.3	0.68	8.0	2.0	13.0	145
Even Sweeter	1	W	8/4	96	26	25.0	6.8	1.3	2.7	0.6	0.54	7.7	1.9	12.8	124
FMX 284	2	Y	8/3	96	24	17.6	5.7	1.0	1.3	0.2	0.65	9.4	1.9	11.2	98
Zenith	5	Y	8/5	97	28	25.8	7.0	1.3	0.9	0.2	0.55	7.8	1.9	11.5	123
HMX 9378	5	Y	8/2	95	27	27.2	7.9	1.4	1.8	0.3	0.58	8.5	1.9	11.8	135
Challenger	1	Y	8/2	95	27	18.9	6.7	1.0	0.4	0.1	0.72	8.3	2.1	12.0	139
Showcase	4	Y	8/3	95	31	19.6	6.3	0.9	1.3	0.2	0.65	8.2	2.0	11.8	110

Table 4. Yield and ear measurements, supersweet (sh₂) corn replicated trial, Corvallis, 1992 (cont.).¹

Variety	Source ²	Color ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
XPH 3030	1	W	8/3	95	27	13.3	4.2	0.7	3.6	0.9	0.64	7.8	2.0	12.2	138
Revere	3	B	8/4	97	27	19.6	6.5	1.0	2.0	0.5	0.67	8.1	2.0	11.8	132
Dazzle	1	B	8/6	98	27	19.4	5.8	1.0	1.3	0.3	0.60	7.7	2.0	11.8	129
Supersweet Jubilee	4	Y	8/5	98	22	21.8	6.7	1.4	1.3	0.3	0.62	8.0	2.0	13.5	99
Golden Gourmet	5	Y	8/5	98	26	23.6	5.7	1.3	0.4	0.1	0.47	8.1	1.9	12.3	124
LSD at 5%						4.9	NS	0.3	2.1	0.5	0.11	0.2	NS	0.9	14

¹Planted May 29 in rows 36" apart, thinned to 9" between plants. All values shown are means of 4 replications arranged in randomized complete blocks. All data except cull no. and T/A were obtained from typical husked good ears. For ear length, ear diameter, and tenderness, the value used for each replication was the average of 5 individual ear measurements.

²Sources: 1 = Asgrow, 2 = Ferry Morse, 3 = Crookham, 4 = Rogers Brothers, 5 = Harris-Moran.

³Color: Y = yellow, W = white, B = bi-color.

⁴Comparative scale, determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

Table 5. Yield and ear measurements, supersweet (sh₂) corn observation trial, Corvallis, 1992.¹

Variety	Source ²	Color ³	Silk Date	Days to Harvest	Stand	Good Ears			Culls		Lbs/ Ear	Ear Length (in.)	Ear Diam. (in.)	Kernel Depth (mm)	Pericarp Toughness ⁴
						1000/A	T/A	No/Plant	1000/A	T/A					
WSS 4948	1	W	7/28	91	26	27.6	6.9	1.5	5.8	0.9	0.5	7.0	2.0	14	135
GSS 3814	1	Y	8/1	91	26	21.1	6.4	1.1	2.2	0.8	0.6	8.0	2.0	12	167
Bi-Honey Delight	2	B	8/4	96	23	16.7	5.4	1.0	4.4	1.0	0.7	8.1	2.0	13	131
Escalade	3	B	8/3	96	29	20.3	6.9	1.0	5.1	1.3	0.7	8.1	2.1	12	135

¹Planted May 29 in rows 36" apart, thinned to 9" between plants. Yield estimates are from a single 20' plot. All data except cull no. and T/A were obtained from typical husked good ears. For ear length, ear diameter, and tenderness, the value shown is the average of 5 individual ear measurements.

²Sources: 1 = Rogers, 2 = Liberty, 3 = Harris-Moran.

³Color: W = white, Y = yellow, B = bi-color.

⁴Comparative scale, determined by a spring-operated puncture gauge; lower numbers indicate more tender pericarp.

Table 6. Descriptive observations, supersweet (sh₂) corn trial, Corvallis, 1992.¹

Variety	Source ²	Kernel Refinement	Row Straightness	Tip Fill	Cylind. Shape	Ear Unif.	Mat. Unif.	Kernel Unif.	Flavor	Overall Score	Row #	Notes
XPH 3027	1	2	3	2.5	3	3	4	2	4	3	12-14	very good flavor, slightly coarse
FMX 324	2	3.5	3.5	4	4	4	5	4.5	4.5	4.5	20	nice ears, good flavor, sweet
Sweet Ear	2	3	3	3.5	3	3	3.5	3	5	3.5		good, sweet
Crisp 'n Sweet 710	3	3	2	3	3.5	2	2	2	4	3	16-18	tough, many curved ears
FMX 322	2	4	3	4	4	2	2.5	3	4.5	3.5	18	curved ears, not uniform, pale ears, very sweet and tender
XPH 3055	1	3	1.5	5	2-4	2.5	3	2	3.5	2	18	short, very rough looking, mostly poor for shape
GSS 3710	4	3	3	5	3.5	3.5	3	2.5	3.5	3.5	18	somewhat coarse and rough
FMX 329	2	3.5	3	4	4	4	4	3.5	4	4	16-20	very uniform, sweet
FMX 330	2	2.5	2.5	4.5	4.5	2	2.5	2.5	3.5	2.5	18-20	some curved ears, tough
GSS 3492	4	3.5	4	5	4	2	3	3.5	5	4	16	hard to pick
XPH 3036	1	5	3.5	2	3	2.5	2	4.5	5	3.5	18	very refined but variable maturity and shape
Snow White	5	3	3.5	4.5	2.5	3.5	4	3	2	3	18	tough, off-flavor
Even Sweetener	1	4.5	2.5	1-4	4	3	3	2.5	4	3	16-18	very sweet, curved ears
FMX 284	2	2.5	2.5	4.5	5	3	4	3	3	3	16	very tender but bland, some curved ears
Zenith	5	4	3	4.5	2.5	4	4	4	4	4	18	uniform, small, nice ears
HMX 9378	5	4	3.5	2	4	2	4	3.5	4.5	3.5	14	long thin ears, tough
Challenger	1	3	2.5	4	3.5	4	3	2.5	3	3.5	16-18	
Showcase	4	4	2.5	2-5	4.5	2	2	3	4	3	16-20	variable, especially for tip fill, very sweet, less than 1 ear/plant

Table 6. Descriptive observations, supersweet (sh₂) corn trial, Corvallis, 1992 (cont.).¹

Variety	Source ¹	Kernel Refinement	Row Straightness	Tip Fill	Cylind. Shape	Ear Unif.	Mat. Unif.	Kernel Unif.	Flavor	Overall Score	Row #	Notes
XPH 3030	1	4	2	4	3.5	3	4	1	2.5	2.5	18-20	rough looking ears, tough
Revere	3	3.5	3.5	4	2.5	2.5	3	3	4	3	16-20	tough, many curved ears, less than 1 good ear/plant
Dazzle	1	2.5	3.5	1.5	3	3	4	3.5	4	3	16	
Supersweet Jubilee	4	3.5	3.5	3	4	4	5	4	4	4	18	uniform, neat ears, very high yield
Golden Gourmet	5	4	2	4	2.5	2	3	2	2.5	2.5	16-22	tough, some ears approaching spades (fat and slightly flat)
WSS 4948	4	1	2.5	4.5	4	2	4	3	4	2	14-16	very coarse and tough, very short ears
GSS 3814	4	4	2.5	2	3.5	2	2.5	4	4	3	16-18	tough, some green tips
Bi-Honey Delight	6	5	4.5	3	3	2.5	2	4.5	4.5	3.5	18-20	many curved ears, very good flavor
Escalade	5	5	2.5	2-4	2-4	2	2	3	3.5	2.5	18-22	

¹Planted May 29. Scores 1-5 scale, 5 = best; overall score related to general characteristics of harvested ears.

²Sources: 1 = Asgrow, 2 = Ferry Morse, 3 = Crookham, 4 = Rogers Brothers, 5 = Harris-Moran, 6 = Liberty.

Table 7. Germination observations, sugary enhancer (se) and sweet (su₁) corn trial, Corvallis, 1992.

Variety	Type	No. of reps in which seedlings were:		
		Weak	Moderate	OK
Earlivee	su		1	3
Bingo	su		3	1
FMX 292	su		2	2
GH 1703	su	1	1	2
GH 2535	su	1	1	2
Quicksilver	su			4
Eliminator	su	1	1	2
Renown	su	2	1	1
HMX 9373	su	1	1	2
Rely	su	2	2	
HMX 9372	su	2	1	1
HMX 8396	su		1	3
GH 2628	su			4
Champ	se		2	2
GH 2419	se			4
GH 2684	se			4
Silverette	se			4
XPH 3013	se	2		2
XPH 3012	se			4
XPH 3048	se			4
GH 2757	se			4
GH 1676	se		2	2
HMX 8395E	se	1	1	2
More	se			4
Silverado	se			4
Tender Delight	se	1		3
Fancy Full	se		1	3
Sweet Dawn	se		1	3
Sensor	se		1	3
White Magic	su			4
GH 1574	se			4
Illumination	se			4
Legend	se			4
Calico Bell	se			4

Table 8. Germination scores, supersweet (sh₂) corn trial, Corvallis, 1992.¹

Variety	Scores				AV
	Rep 1	Rep 2	Rep 3	Rep 4	
XPH 3027	4	4	3	3	3.5
FMX 324	3	3	4	3	3.25
Sweet Ear	3	3	3	4	3.25
Crisp 'n Sweet 710	4	4	3	3	3.5
FMX 322	2	2	3	3	2.5
XPH 3055	4	3	4	4	3.75
GSS 3710	1	2	2	1	1.5
FMX 329	5	5	5	3	4.5
FMX 330	1	2	2	2	1.75
GSS 3492	2	3	3	3	2.75
XPH 3036	3	3	2	3	2.75
Snow White	3	3	3	3	3.0
Even Sweeter	3	2	3	2	2.5
FMX 284	2	2	2	2	2.0
Zenith	4	3	2	4	3.25
HMX 9378	4	3	2	2	2.5
Challenger	3	3	2	2	2.5
Showcase	2	2	3	3	2.5
XPH 3030	5	3	5	4	4.25
Revere	3	4	3	3	3.75
Dazzle	3	4	4	3	3.5
Supersweet Jubilee	1	2	2	2	1.75
Golden Gourmet	3	3	4	3	3.75

¹Scores 1-5 scale, 5 = most vigorous.