

REACTIONS OF SWEET CORN HYBRIDS TO PREVALENT DISEASES AND HERBICIDES

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Common rust (*Puccinia sorghi*), northern leaf blight - NLB (*Exserohilum turcicum*), Stewart's bacterial wilt (*Erwinia stewartii*), maize dwarf mosaic - MDM (*maize dwarf mosaic* and *sugarcane mosaic viruses*), and southern leaf blight - SLB (*Bipolaris maydis*) are endemic diseases of sweet corn grown in North America. Southern rust (*Puccinia polysora*), anthracnose leaf blight - ALB (*Colletotrichum graminicola*), and gray leaf spot - GLS (*Cercospora zea-maydis*) occur less frequently but can be severe in certain situations. Reactions to these diseases vary among commercial sweet corn hybrids.

Since 1984, over 3,100 sweet corn hybrids have been evaluated for disease reactions in nurseries at the University of Illinois. In each trial, hybrids were rated for severity of infection and classified as resistant (R), moderately resistant (MR), moderate (M), moderately susceptible (MS), and susceptible (S) based on standard deviations from trial means (z-scores), separations based on multiple comparison tests (BLSD), and multivariate clustering procedures. This type of classification produces statistically "overlapping" groups without clear-cut differences between classes (e.g., the hybrids with the least severe symptoms in the MR class do not differ significantly from the hybrids with the most severe symptoms in the R class). Nevertheless, a consistent response of a hybrid over several trials gives a reasonable estimate of the disease reaction of that hybrid relative to all other sweet corn hybrids. These reactions can then be used to assess the potential for diseases to become severe on a specific hybrid and to plan disease management strategies. Results of annual nurseries are reported in the Midwestern Vegetable Variety Trial Report and are available on-line the sweet corn disease nursery website at www.sweetcorn.illinois.edu.

This article summarizes disease reactions of 565 commercially-available and pre-commercial hybrids based on 26 years of nurseries since 1984. The summary includes reactions of 359 shrunken-2 hybrids (206 yellow, 99 bi-color, and 54 white), 90 sugary hybrids (80 yellow, 3 bi-color and 7 white), and 114 sugary enhancer hybrids (25 yellow, 65 bi-color, 24 white, and 2 red). Responses to three post-emergence herbicides also are reported.

GENERAL INFORMATION

To insure uniform disease pressure, plants were inoculated repeatedly with races of *P. sorghi* (avirulent, D-virulent or G-virulent), *E. turcicum* races 0 and 1, *P. stewartii*, *maize dwarf mosaic* and *sugarcane mosaic viruses*, *B. maydis*, *P. polysora*, *C. graminicola*, and *C. zea-maydis*. Herbicides were applied post-emergence when plants had three to six visible leaf collars. Materials and methods varied slightly between years and are presented in more detail in each annual report. All diseases were not evaluated each year, thus, all hybrids were not evaluated for all diseases.

In this summary, hybrids are grouped by **endosperm phenotype** (sugary, sugary enhancer, or shrunken-2) and listed **alphabetically** by hybrid name. Hybrids with multiple endosperm mutations (e.g., sweet breeds, triples sweets, enhanced sh2) are placed under the most appropriate category of endosperm phenotypes. The table listing disease reactions of hybrids also includes: seed source (seed company which entered the hybrid in the nursery), endosperm type (ET), kernel color (KC), and relative maturity (RM) from 1 to 5 as reported by each seed company (where 1 = first early, 2 = second early, 3 = mid-season, 4 = main season, and 5 = full season).

Disease and herbicide reactions are averaged over all trials in which a hybrid was evaluated. Reactions are presented on a 0 to 9 scale, where: 0 = no disease, 1 = resistant, 3 = moderately resistant, 5 = moderate, 7 = moderately susceptible, and 9 = susceptible. Hybrids with *Rp*-reactions to rust are designated as 'Rp'. Reactions to avirulent (avir), D-virulent (D-vir) and G-virulent (G-vir) races of *P. sorghi* are listed separately. Hybrids with an Ht-gene response to NLB are noted as 'Ht'. The number of trials in which a hybrid was evaluated for each disease is noted with a superscript. For example, the reaction of the yellow sugary hybrid Bonanza to common rust is listed as 8⁵. This indicates that the rust reaction of Bonanza relative to all sweet corn hybrids is between moderately susceptible and susceptible (i.e., 8=MS-S because 7=MS and 9=S), and this average is based on five trials in which Bonanza was evaluated.

INTERPRETATION OF DISEASE REACTIONS

Resistance and susceptibility are the two extremes of a continuum of host reactions to diseases. Resistance measures the ability of the host to reduce the growth, reproduction, or disease-producing abilities of the pathogen, thus resulting in less severe symptoms. Major genes for resistance, such as *Rp*, *Ht*, or *Mdm1*, can prevent or substantially limit disease development if specific virulence is not present in pathogen populations. Hybrids with major gene resistance usually have clearly distinguishable phenotypes. Major gene resistance may be ineffective when specific virulence occurs. For example, rust resistance based on the *Rp1-D* gene is not effective when D-virulent isolates are prevalent.

If hybrids do not have major gene resistance, disease reactions may range from partially resistant to susceptible. Because nurseries at the University of Illinois have included most of the sweet corn hybrids available commercially, our ratings reflect the disease reactions of a hybrid relative to all sweet corn.

Hybrids with reactions classified as 1 or 2 (R or R-MR) were among the best in our trials in the past 26 years. Hybrids classified as 9 were susceptible (S) and were among the worst. Usually, hybrids with moderately resistant reactions (3) were better than average, and hybrids with moderately susceptible (7) reactions were worse than average. Levels of disease usually were near average on hybrids with moderate reactions (5) except when a majority of hybrids in a trial were very severely infected or infected very little. In those cases, reactions of hybrids with average levels of disease (mean and/or median) were classified above (≥ 6) or below (≤ 4) moderate. Classification of reactions of specific hybrids varied among years (e.g., some hybrids were classified M in one trial and MR or MS in another trial due to random variation or other factors). Thus, mean reactions of hybrids based on at least three or more trials are more accurate than reactions based on one or two trials.

Symptoms may occur on hybrids with R reactions, but the amount of disease on these hybrids is less than the amount on hybrids classified as MR, M, MS, or S. The effects of diseases on yield should correspond to this scale of hybrid reactions.

Common rust. Rust reactions have become more complicated in the last decade because of the widespread occurrence of races of *P. sorghi* with virulence against specific Rp-resistance genes. Hybrids with the *Rp1-D* gene are infected by the D-virulent race of rust. Hybrids with the *Rp-G*, *Rp1-E*, *Rp1-I*, or *Rp1-K*, genes are infected by the G-virulent race. None of these Rp genes are overcome by the avirulent race (i.e., the “old race”). Hybrids with

certain combinations of Rp genes (e.g., *Rp1-D+Rp-G*, *Rp1-D+Rp1-I*, *RpDGJ*, or *RpJFC*) are resistant to all three races used in the UI nurseries. In commercial production, hybrids with Rp genes may be infected by some populations of rust but not by others.

If a hybrid does not have Rp-resistance, the rust reaction listed in the first column of Table 2 is based the response of the hybrid to all races. Theoretically, hybrids that do not have Rp resistance should have the same reaction to each race of rust, but in practice, reactions vary slightly among races. For example, the overall reaction of the yellow sugary hybrid Bonanza to common rust is MS-S based on 5 trials (i.e., 8⁵), but Bonanza was classified as S (9⁴) in four trials with the avirulent race of rust and MS (7¹) in a single trial with the D-virulent race. This difference probably is due to random variation among trials.

Rp-resistance is noted by ‘Rp’ in the first column. Reactions of hybrids with Rp-resistance are listed separately for avirulent, D-virulent, and G-virulent races of rust. For example, in 11 trials with the avirulent race of rust, the yellow sugary hybrid Bonus had an Rp-reaction (0¹¹). In nine trials with the D-virulent race of rust, Bonus had an MR-M reaction (4⁹). Bonus was Rp-resistant in five trials with G-virulent rust (0⁵). The response of Bonus is typical of hybrids with the *Rp1-D* gene: Rp-resistant to the avirulent and G-virulent races with reactions to the D-virulent race depending on background levels of polygenic resistance. Likewise, hybrids with an *RpG*, *Rp1-I*, *Rp1-E*, or *Rp1-K* gene are resistant to the avirulent and D-virulent races but reactions to the G-virulent race depend on polygenic levels of rust resistance or susceptibility.

Rp-resistance to the avirulent race of rust occurred in 266 hybrids. Ninety hybrids were Rp-resistant against the D-virulent race, and 191 hybrids were Rp-resistant against the G-virulent race. There were 40 hybrids with Rp-resistance against D-virulent and G-virulent races. Among the 291 hybrids that did not have Rp-resistance, only 17 (3%) had R to MR reactions and 125 hybrids (22%) had MS to S reactions. Significant yield losses from rust are most likely to occur on those 125 hybrids or on Rp-resistant hybrids with MS to S reactions to virulent races. Sweet corn yield is reduced about 5% for each 10% of the leaf area infected with common rust.

Northern leaf blight. Of the 125 hybrids with R to MR reactions to NLB, 98 had an Ht gene reaction in addition to having good levels of polygenic resistance. Similarly, of 151 hybrids with MS to S reactions to NLB, only six had Ht-gene reactions. Over 100 of the NLB resistant hybrids were shrunken-2 endosperm types, while only 7 sugary enhancer and

11 sugary hybrids had R to MR reactions to NLB. Nearly half (39 of 80) of the yellow, sugary hybrids had MS to S reactions to NLB. Yield of hybrids with R to MR reactions will be affected very little by NLB unless environmental conditions are extremely favorable for disease development. Yield of sweet corn usually is not affected by NLB until more than 15% or 20% of the leaf area is symptomatic. Yield of hybrids with MS to S reactions is likely to be reduced substantially by NLB under disease favorable environments. Yield of 289 hybrids with MR to MS reactions (4 to 6) may be affected under disease favorable environments.

Stewart's wilt. Infection by *E. stewartii* should be very limited on 139 hybrids with reactions from R to MR although some systemic infection and yield reduction may occur if flea beetles feed on these hybrids as emerging seedlings. This usually occurs under extremely dry conditions when populations of flea beetles are very large. Stewart's wilt infection is likely to be systemic on some plants of 103 hybrids with reactions from MS to S. Infection will be more severe and incidence of systemic infection will be higher on hybrids that are more susceptible. Seed treatment insecticides to control flea beetles should be advantageous on MS to S hybrids when the average winter temperature (Dec., Jan., Feb.) is above 27°F and flea beetles were present the previous summer. Seed treatment insecticides may have utility for risk adverse growers as an insurance against more severe infection of MS to S hybrids when the average winter temperature is between 24°F and 27°F or on MR to MS hybrids when the average winter temperature is above 27°F.

Maize dwarf mosaic. Most sweet corn hybrids are susceptible (8 or 9) to MDM. However, 130 hybrids have various levels of MDM resistance (1 to 7). Most hybrids classified from R to MS probably have the *Mdm1* resistance gene. Hybrids with the R to MR reactions to MDM usually have less than 10% symptomatic plants when inoculated at early growth stages (2- to 4-leaf), and nearly no symptomatic plants when infected at later growth stages. These hybrids may have genes that modify the *Mdm1* gene and enhance levels of resistance. Incidence of MDM-infected plants is higher for hybrids with moderate reactions (4 to 7). These hybrids may lack some of the MDM-modifier genes. Susceptible hybrids (8 or 9) are nearly 100% infected when inoculated.

Southern leaf blight. Forty percent of the hybrids evaluated for SLB had R to MR reactions and over 40% had MR to MS reactions. SLB is not likely

to damage these hybrids. Hybrids with MS to S reactions are most likely to sustain damage from SLB when environmental conditions favor this disease.

Southern rust, gray leaf spot, and anthracnose leaf blight. Fewer hybrids have been evaluated for reactions to southern rust, GLS, and ALB than for other diseases. Generally, these leaf blights are not widespread on sweet corn although they may be severe in specific situations. With the exception of one hybrid (Sure Gold) that has *Rpp*-resistance to southern rust, few hybrids are highly resistant to southern rust or GLS. In fact, the reactions of >90% of the hybrids evaluated range from M to S for these two diseases. Of the hybrids evaluated for ALB, 20 have reactions from MS to S.

Accent, Callisto, Laudis and Impact herbicides. Injury to hybrids from selected, P450-metabolized, postemergence herbicides have been evaluated in UI nurseries since 2002. Only responses to Accent, Callisto, Laudis, and Impact are reported. Most hybrids have tolerant (1 to 2) responses to these herbicides. About 2% of the hybrids evaluated have sensitive responses. Sensitive hybrids are homozygous for mutant alleles at a cytochrome P-450 locus (CYP) on the short arm of chromosome 5. Homozygous mutants have increased levels of sensitivity to several different P450-metabolized herbicides, including: Accent, Aim, Basagran, Callisto, Distinct, Laudis, Option, and Permit. These hybrids appear to lack the P450 enzyme responsible for metabolism of these herbicides. About 15% to 20% of the hybrids have intermediate responses. Many of these hybrids are heterozygous for a functional and a mutant CYP allele. Heterozygous hybrids likely metabolize these herbicides at rates intermediate to tolerant and sensitive hybrids and therefore have varied responses that are affected by a number of factors such as environmental conditions, rates of applications, and herbicide formulations. An example of this variation is Laudis, which is formulated with a safener (isoxadifen ethyl) believed to enhance cytochrome P450 activity. Heterozygous hybrids usually are not injured by Laudis probably because of enhanced P450 activity; however, homozygous mutant hybrids are sensitive and may be severely injured by Laudis because both CYP alleles are mutants. Although homozygous mutant and heterozygous hybrids were injured in greenhouse trials by Impact applied at 10X rates, we have not observed injury of any hybrids due to 2X rates of Impact in University of Illinois sweet corn nurseries.

Table 1. Disease and herbicide reactions of commercial and pre-commercial sweet corn hybrids in UI nurseries, 1984-2009

Disease	n	Number of hybrids in each reaction category										% of hybrids			
		Rp	1	2	3	4	5	6	7	8	9	R*	R-MR	MR-MS	MS-S
Common rust															
avirulent	557	266	0	5	12	21	53	75	63	37	25	48	3	27	22
D-virulent	445	90	0	0	16	34	111	141	10	37	6	20	4	64	12
G-virulent	442	191	0	5	13	44	58	51	44	23	13	43	4	35	18
NLB															
Ht hybrids	189		14	43	41	34	33	18	4	2	0	33	52	45	3
ht hybrids	376		4	6	17	29	93	82	79	38	28		7	54	39
MDM	537		5	21	31	34	15	11	18	100	302	23	11	13	77
Stewart's wilt	562		12	38	89	110	115	95	54	31	18		25	57	18
SLB	558		40	74	111	102	79	69	53	17	13		40	45	15
Herbicides															
Callisto	529		205	181	86	29	12	6	3	5	2		81	17	2
Laudis	334		314	8	4	0	1	0	1	5	1		96	1	2
Accent	298		163	95	26	6	2	0	3	1	2		87	11	2
Southern rust	259	1	1	7	5	23	44	55	58	33	32		5	47	47
GLS	144		0	1	3	20	42	36	23	14	5		3	68	29
ALB	87		8	5	13	7	24	10	15	2	3		30	47	23

n = number of hybrids evaluated from 1984-2009 that are currently available commercially or are in pre-commercial development.

Disease reaction classification: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible.

Herbicide response: tolerant (1-2), intermediate (3-6), sensitive (7-9).

R* = percentage of hybrids with Rp resistance to common rust, Ht-resistance to NLB, or Mdm1-resistance to MDM.

In the past 26 years, many people have participated in annual evaluations of hybrids in the University of Illinois sweet corn nurseries, including (chronologically): John Headrick, Suparyono, John Gantz, Payam Fallah, Annette Meyer, Claude Nankam, Mike Kerns, Lindsey du Toit, Phil Michener, Noah Freeman, Molly Pate, Mirian Gonzalez, Andrea Campaña, Mohammad Babadoost, Loyd Wax, Christy Sprague, Tatjana Ledenčan, Jon Nordby, Mark Bogner, Clint Mapel, Ryan Hasty, John Frihauf, Valdimir Casteñada, Alicia Chávez, Mike Meyer, Bryan Warsaw, and Jim Moody.

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Sugary hybrids																			
HM	su	Y	4	Bonanza	8 ⁵	9 ⁴	7 ¹		3 ⁴		4 ⁴	8 ¹	4 ¹	3 ¹				7 ²	
Rog	su	Y	5	Bonus	Rp ²⁵	0 ¹¹	4 ⁹	0 ⁵	5 ¹⁶	Ht	1 ¹³	2 ¹³	6 ¹²	2 ⁸	1 ²	2 ⁴	7 ³	5 ³	3 ¹
SnRv	su	Y	4	Captain	5 ⁹	5 ³	5 ⁴	5 ²	8 ⁴		5 ⁴	9 ⁴	6 ⁴	3 ⁴	1 ²	1 ¹	6 ¹		
Sem	su	Y	2	Chase	5 ⁶	5 ⁴	5 ²		6 ⁶		6 ³	9 ⁴	3 ⁴	1 ²		2 ¹	9 ¹		
Rog	su	Y	3	Code 901	Rp ³	0 ¹	7 ¹	0 ¹	7 ¹		1 ¹	3 ¹	5 ¹	3 ¹	1 ¹				
Rog	su	Y	3	Code 903	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹	Ht	5 ¹	3 ¹	2 ¹	3 ¹	1 ¹				
Rog	su	Y	4	Code 904	Rp ³	0 ¹	5 ¹	0 ¹	9 ¹		9 ¹	4 ¹	5 ¹	4 ¹	1 ¹				
Rog	su	Y	5	Code 915	Rp ³	0 ¹	0 ¹	0 ¹	6 ¹	Ht	5 ¹	2 ¹	7 ¹	3 ¹	1 ¹				
Rog	su	Y	3	Code 921	6 ³	6 ¹	7 ¹	6 ¹	6 ¹		9 ¹	2 ¹	7 ¹	8 ¹	5 ¹				
Rog	su	Y	4	Code 927	Rp ³	0 ¹	0 ¹	4 ¹	4 ¹	Ht	3 ¹	5 ¹	7 ¹	3 ¹	1 ¹				
Rog	su	Y	5	Code 928	Rp ³	0 ¹	0 ¹	0 ¹	1 ¹	Ht	6 ¹	6 ¹	3 ¹	1 ¹	1 ¹				
Rog	su	Y	3	Code Exp 109	Rp ²	0 ¹	0 ¹		5 ¹		5 ¹	9 ¹	6 ¹	3 ¹					
HM	su	Y	4	Coho	Rp ¹⁸	0 ⁶	4 ⁷	0 ⁵	8 ¹¹		7 ⁹	5 ⁹	4 ⁸	3 ⁷	1 ²	2 ³	6 ¹	6 ²	
SdSv	su	W	5	Country Gentleman	2 ⁴	2 ⁴			5 ⁴		4 ³		5 ¹					8 ²	
Cr	su	Y	4	CSUYP6-205	Rp ³	0 ¹	0 ¹	0 ¹	9 ¹		5 ¹	9 ¹	8 ¹	1 ¹	1 ¹				
HM	su	Y	3	Dynamo	Rp ¹⁷	0 ⁸	5 ⁶	0 ³	7 ¹⁰		5 ⁷	4 ⁷	6 ⁸	5 ⁴	1 ¹	3 ²	8 ³	6 ¹	
Cr	su	Y	2	Earlivee	7 ¹⁴	7 ¹⁰	7 ⁴		8 ¹¹		8 ¹⁰	8 ⁶	7 ⁸	2 ²		2 ¹		7 ¹	7 ³
Rog	su	W	5	Early Cogent	3 ⁴	2 ³	5 ¹		4 ³		5 ²	9 ²	4 ³	1 ¹			7 ¹		
Rog	su	Y	1	Early Sunglow	6 ²	6 ¹	6 ¹		6 ¹		5 ¹	9 ¹	4 ¹	1 ¹				3 ¹	
Sem	su	Y	4	El Toro	Rp ²⁵	0 ¹¹	6 ⁹	0 ⁵	6 ¹⁶		3 ¹³	3 ¹³	3 ¹²	3 ⁸	1 ²	2 ⁴	7 ³	5 ³	
Cr	su	Y	4	Eliminator	Rp ²⁸	0 ¹⁴	7 ⁹	0 ⁵	6 ¹⁹		2 ¹⁶	2 ¹³	6 ¹⁴	2 ⁸	1 ²	2 ⁴	8 ³	6 ³	4 ³
Rog	su	Y	5	Elite	Rp ⁸	0 ⁴	6 ³	0 ¹	9 ⁴		5 ³	4 ²	7 ⁴	2 ²	1 ¹			7 ¹	
SnRv	su	Y	4	Empire	4 ¹³	5 ⁴	4 ⁵	4 ⁴	7 ⁸		5 ⁶	8 ⁷	6 ⁵	2 ⁶	1 ¹	2 ⁴	5 ¹		
SnRv	su	Y	5	Enterprise	Rp ¹⁴	0 ⁵	4 ⁵	0 ⁴	3 ⁶	Ht	3 ⁶	2 ⁶	2 ⁵	2 ⁶	1 ²	2 ³	5 ¹		
Cr	su	Y	4	Evita	Rp ¹⁵	0 ⁵	5 ⁵	0 ⁵	7 ⁵		4 ⁶	2 ⁷	5 ⁶	1 ⁶	1 ²	2 ³	5 ¹		
Sem	su	Y	4	EX 0832 4148	Rp ¹¹	0 ⁴	4 ⁴	0 ³	7 ⁴		5 ⁴	9 ⁴	8 ⁴	2 ⁴	1 ²	1 ¹	7 ¹		
Sem	su	Y	4	EX 0875 5821	Rp ¹¹	0 ⁴	0 ⁴	0 ³	3 ⁴	Ht	2 ⁴	2 ⁴	7 ⁴	2 ⁴	1 ²	1 ¹	6 ¹		
Rog	su	Y	5	GH 0937 A	Rp ¹²	0 ⁶	4 ⁵	0 ¹	4 ⁷	Ht	1 ⁷	3 ⁷	6 ⁶	2 ³	1 ¹	1 ¹	9 ¹	5 ²	
Rog	su	Y	4	GH 0991	Rp ⁸	0 ³	0 ³	0 ²	5 ⁶		3 ⁴	1 ⁴	2 ³	3 ⁴	1 ¹	4 ¹		3 ¹	
Rog	su	Y	2	GH 1703	6 ⁵	5 ³	6 ²		8 ³		7 ²	9 ¹	8 ²	1 ¹				7 ¹	
Rog	su	Y	3	GH 2042	Rp ⁶	0 ²	0 ³	5 ¹	9 ⁵		7 ³	9 ³	3 ³	2 ²		3 ¹		7 ¹	
Rog	su	Y	2	GH 2171	Rp ⁸	0 ³	0 ³	5 ²	6 ³	Ht	6 ³	4 ³	5 ³	2 ³	1 ¹	1 ¹	4 ¹		
Rog	su	Y	4	GH 2547	Rp ⁹	0 ⁴	6 ⁴	0 ¹	7 ⁴		6 ⁴	6 ⁴	5 ⁴	1 ²	1 ¹		7 ¹	4 ¹	
Rog	su	Y	4	GH 3369	Rp ⁵	0 ²	0 ²	0 ¹	6 ²		6 ²	4 ²	3 ²	2 ²	1 ¹				
Rog	su	Y	2	GH 4902	Rp ⁵	0 ²	4 ²	0 ¹	9 ²		8 ²	7 ²	5 ²	2 ²	1 ¹				

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Rog	su	Y	2	GH 4927	Rp ⁵	0 ²	0 ²	6 ¹	9 ²		8 ²	8 ²	4 ²	4 ²	1 ¹	5 ¹			
Rog	su	Y	5	GH 5704	Rp ¹³	0 ⁵	0 ⁵	7 ³	5 ⁷	Ht	3 ⁵	5 ⁶	2 ⁴	1 ⁵	3 ¹	2 ³	8 ¹		
Rog	su	Y	4	GH 6377 P	Rp ⁸	0 ³	0 ³	0 ²	6 ³	Ht	3 ³	2 ³	5 ³	3 ³	1 ²				
Rog	su	Y	5	GH 6462	Rp ⁹	0 ³	0 ³	0 ³	6 ⁴	Ht	4 ⁴	4 ⁴	5 ⁴	1 ⁴	1 ¹	1 ²	4 ¹		
Rog	su	Y	5	GH 9597	Rp ¹⁰	0 ⁴	0 ⁴	0 ²	5 ⁶	Ht	1 ⁴	3 ⁵	7 ³	2 ⁴	1 ¹	2 ²			
SdSv	su	Y	3	Golden Bantam WI	9 ¹	9 ¹			7 ¹				7 ¹						
Rog	su	Y	5	Golden Queen	7 ⁵	8 ⁴	7 ¹		3 ⁴		4 ⁴	9 ¹	4 ¹	1 ¹				4 ²	
GG	su	W	4	Green Giant Code 61	3 ⁸	3 ³	4 ³	4 ²	5 ⁷		7 ⁷	9 ⁷	4 ⁶	4 ⁴		1 ²	6 ²	6 ²	
GG	su	Y	4	Green Giant Code 62	Rp ¹²	0 ⁵	3 ⁶	0 ¹	2 ⁹	Ht	2 ⁷	8 ⁷	4 ⁶	1 ³	1 ¹	7 ¹	5 ³		
GG	su	Y	3	Green Giant Code 123	5 ⁶	6 ²	5 ²	6 ²	7 ⁶		4 ⁴	9 ⁴	8 ³	1 ⁴		1 ²	7 ¹		
GG	su	Y	4	Green Giant Code 128	Rp ⁷	0 ³	4 ³	0 ¹	5 ⁶		3 ⁴	4 ⁴	2 ²	2 ⁴		2 ²	4 ¹		
GG	su	Y	4	Green Giant Code 146	Rp ¹¹	0 ⁴	0 ⁴	4 ³	5 ⁷		6 ⁵	4 ⁶	1 ⁴	1 ⁵	1 ¹	1 ³			
GG	su	Y	2	Green Giant Code 151	Rp ⁹	0 ³	5 ³	0 ³	8 ⁶		6 ⁴	9 ⁵	8 ⁴	1 ⁴		1 ³	6 ¹		
GG	su	Y	1	Green Giant Code 162	Rp ⁹	0 ³	6 ³	0 ³	9 ³		7 ⁴	8 ⁴	3 ³	2 ⁴	1 ¹	1 ²			
GG	su	Y	2	Green Giant Code 174	Rp ⁵	0 ²	4 ²	0 ¹	6 ²		6 ²	3 ²	3 ²	2 ²	1 ¹				
GG	su	Y	4	Green Giant Code 175	Rp ¹²	0 ⁴	4 ⁴	0 ⁴	2 ⁵	Ht	2 ⁵	7 ⁵	1 ⁵	1 ⁵	1 ²	1 ²	5 ¹		
GG	su	Y	4	Green Giant Code 188	Rp ⁸	0 ³	0 ³	2 ²	3 ³	Ht	2 ³	2 ³	5 ³	1 ³	1 ¹	1 ¹	5 ¹		
GG	su	Y	2	Green Giant Code 204	Rp ⁵	0 ²	4 ²	0 ¹	9 ²		5 ²	9 ²	9 ²	2 ²	1 ¹				
GG	su	Y	2	Green Giant Code 206	Rp ⁵	0 ²	4 ²	0 ¹	8 ²		6 ²	9 ²	8 ²	2 ²	1 ¹				
GG	su	Y	4	Green Giant Code 209	Rp ⁵	0 ²	0 ²	4 ¹	6 ²		5 ²	6 ²	3 ²	2 ²	1 ¹				
GG	su	Y	1	Green Giant Code 218	Rp ³	0 ¹	0 ¹	6 ¹	8 ¹		6 ¹	7 ¹	3 ¹	3 ¹	1 ¹				
GG	su	Y	1	Green Giant Code 219	7 ³	8 ¹	7 ¹	5 ¹	8 ¹		5 ¹	8 ¹	4 ¹	3 ¹	1 ¹				
GG	su	Y	4	Green Giant Code 220	Rp ³	0 ¹	0 ¹	0 ¹	6 ¹		3 ¹	3 ¹	5 ¹	3 ¹	1 ¹				
Sem	su	Y	4	Harvest Gold	Rp ¹⁸	0 ⁷	3 ⁷	0 ⁴	3 ¹¹	Ht	2 ⁹	8 ⁸	6 ⁷	1 ⁸	1 ²	1 ⁴	6 ¹	7 ²	
HM	su	Y	3	HM 2390	Rp ⁹	0 ³	3 ³	0 ³	8 ⁴		5 ⁴	9 ⁴	4 ⁴	1 ⁴	1 ²				
HM	su	Y	4	HMX 6384	Rp ¹¹	0 ⁴	0 ⁴	0 ³	7 ⁴		6 ⁴	3 ⁴	1 ⁴	2 ⁴	1 ²	1 ¹	5 ¹		
Cr	su	B	3	Honey & Cream	6 ¹⁰	6 ⁷	7 ³		6 ⁹		7 ⁹	9 ⁶	6 ⁷	1 ²		8 ²	7 ³	5 ³	
Cr	su	Y	3	Intrigue	Rp ¹⁴	0 ⁶	4 ⁶	0 ²	7 ¹¹		5 ⁹	8 ⁹	7 ⁷	1 ⁵		2 ³	9 ¹	6 ³	
SnRv	su	Y	1	Jet	Rp ¹⁴	0 ⁵	6 ⁵	0 ⁴	7 ⁸		5 ⁶	9 ⁷	9 ⁶	1 ⁶	1 ²	1 ³	4 ¹		
Rog	su	Y	4	Jubilee	5 ³⁴	5 ²⁰	6 ⁹	6 ⁵	8 ²⁵		9 ²⁴	9 ¹³	4 ¹⁴	2 ⁷	1 ²	2 ⁴	7 ³	6 ¹	7 ⁵
HM	su	Y	3	Kokanee	Rp ⁶	0 ²	4 ²	0 ²	8 ³		4 ³	9 ³	4 ³	1 ³	1 ¹	1 ¹			
HM	su	Y	5	Legacy	Rp ¹⁶	0 ⁸	5 ⁵	0 ³	8 ¹⁰		6 ⁸	9 ⁶	6 ⁶	1 ⁴	1 ¹	2 ²	6 ²	6 ¹	7 ¹
HM	su	Y	4	Lumina	Rp ²⁰	0 ¹⁰	6 ⁶	0 ⁴	7 ¹³	Ht	8 ¹¹	9 ⁹	6 ⁹	1 ⁶	1 ¹	2 ⁴	7 ³	7 ¹	5 ²
Sem	su	Y	4	Merit	8 ¹⁴	9 ⁷	8 ⁴	7 ³	6 ⁸	Ht	5 ⁸	9 ⁴	5 ⁵	9 ⁴	9 ²	9 ¹		6 ²	
Sem	su	Y	4	Merkur	Rp ¹⁷	0 ⁶	5 ⁶	0 ⁵	3 ¹⁰	Ht	2 ⁸	4 ⁷	7 ⁷	2 ⁷	1 ²	2 ³	5 ¹	6 ²	
Rog	su	B	2	Peaches & Cream Early EH	8 ²	7 ¹	8 ¹		9 ¹		7 ¹	9 ¹	8 ¹	1 ¹					

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Northern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
SnRv	su	Y	2	Prelude	5 ¹⁷	6 ⁵	5 ⁷	5 ⁵	8 ¹¹		5 ⁹	8 ¹⁰	6 ⁷	1 ⁸	1 ²	1 ⁴	5 ¹	8 ¹	
SnRv	su	Y	4	Punch	5 ¹⁰	5 ³	5 ⁴	4 ³	7 ⁷		5 ⁵	9 ⁶	6 ⁴	1 ⁵		2 ⁴	5 ¹		
Cr	su	B	1	Quickie	8 ¹⁵	9 ¹¹	8 ⁴		8 ¹³		7 ¹²	8 ⁸	9 ⁹	1 ²		2 ¹	9 ²	8 ¹	8 ³
Rog	su	Y	5	Rocker	Rp ¹⁴	0 ⁵	0 ⁵	0 ⁴	7 ⁸		6 ⁶	4 ⁷	4 ⁵	1 ⁶	1 ¹	2 ⁴	5 ¹		
Sem	su	Y	1	Seneca Horizon	4 ⁵	3 ⁴	6 ¹		4 ⁴		6 ⁴	8 ¹	5 ¹	1 ¹					6 ²
Rog	su	W	5	Silver Queen	8 ⁶	8 ⁵	6 ¹		4 ⁶		3 ⁷	9 ²	4 ²	1 ¹			9 ¹		6 ³
HM	su	Y	3	Sockeye	Rp ¹³	0 ⁵	3 ⁶	0 ²	9 ⁹		5 ⁷	9 ⁷	4 ⁶	1 ⁴	1 ¹	2 ¹			5 ³
Rog	su	Y	1	Spirit	5 ³	5 ²	6 ¹		9 ²		9 ²	9 ¹	4 ²	1 ¹					
SdSv	su	W	5	Stowells Evergreen	5 ¹	5 ¹			5 ¹				5 ¹						
Sem	su	Y	5	SVR 0873 5807	Rp ¹⁵	0 ⁵	3 ⁵	0 ⁵	4 ⁸	Ht	1 ⁶	1 ⁷	8 ⁶	2 ⁶	1 ²	1 ³	6 ¹		
Rog	su	Y	5	Sweet G90	5 ²	4 ¹	5 ¹		6 ¹		2 ¹	9 ¹	4 ¹	1 ¹					
Cr	su	Y	4	Tamarack	Rp ¹¹	0 ⁴	0 ⁴	0 ³	7 ⁴		2 ⁴	3 ⁴	7 ⁴	2 ⁴	1 ²	1 ¹	7 ¹		
HM	su	Y	3	Turbo	Rp ⁸	0 ²	3 ⁴	0 ²	4 ⁵	Ht	4 ⁵	4 ⁵	2 ⁵	3 ⁵	1 ²	1 ²	4 ¹		
SnRv	su	Y	5	UY0712 OJ	Rp ¹⁵	0 ⁵	5 ⁵	0 ⁵	6 ⁸		4 ⁶	1 ⁷	5 ⁶	1 ⁶	1 ²	1 ³	5 ¹		
SnRv	su	Y	5	UY1953 OK	5 ¹¹	6 ³	5 ⁴	5 ⁴	3 ⁵	Ht	3 ⁵	2 ⁵	3 ⁵	1 ⁵	1 ²	1 ²	5 ¹		
SnRv	su	Y	1	UY3435 OM	Rp ⁸	0 ³	6 ³	0 ²	8 ³		5 ³	9 ³	9 ³	1 ³	1 ²				
Rog	suse	W	4	WH1163	4 ⁵	2 ²	6 ²	6 ¹	6 ²		5 ²	5 ²	2 ²	3 ²	1 ¹				
Rog	su	W	5	WH1428	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹		4 ¹	1 ¹	3 ¹	2 ¹	3 ¹				
Sugary enhanced hybrids																			
Sem	se	B	4	Absolute	5 ¹⁷	5 ⁷	5 ⁷	4 ³	5 ¹²		3 ¹⁰	9 ¹⁰	4 ⁸	2 ⁶	1 ¹	2 ³	7 ²	6 ³	
MM	se	B	4	Accord	6 ¹⁶	6 ⁵	6 ⁷	6 ⁴	3 ¹¹		3 ⁹	9 ⁹	2 ⁷	2 ⁷	1 ¹	2 ⁴	5 ¹	5 ²	
Sto	se	B	1	Aladdin	9 ¹	9 ¹			7 ¹		7 ¹								5 ²
Cr	se	B	3	Ambrosia	6 ²⁷	6 ¹⁴	6 ⁸	6 ⁵	5 ¹⁹		2 ¹⁸	9 ¹³	6 ¹³	1 ⁸	1 ²	2 ⁴	6 ³	5 ³	6 ³
Cr	sesyn	B	3	Applause	6 ⁸	6 ³	6 ³	5 ²	6 ⁵		5 ⁵	9 ⁴	5 ³	1 ⁵	1 ¹	1 ²		6 ¹	
Cr	se	W	4	Argent	5 ²⁴	4 ¹³	5 ⁷	5 ⁴	4 ¹⁸		2 ¹⁷	9 ¹²	3 ¹³	5 ⁷	2 ¹	2 ⁴	5 ³	6 ³	5 ³
MM	se	W	4	Augusta	5 ¹¹	6 ³	5 ⁴	6 ⁴	4 ⁵		3 ⁵	9 ⁵	6 ⁵	1 ⁵	1 ²	1 ²	5 ¹		
Rog	se+	W	4	Avalon	Rp ⁵	0 ²	4 ²	0 ¹	5 ⁵		6 ³	9 ³	3 ²	1 ³		3 ¹		7 ¹	
Rog	se+	B	4	BC 0805 A	Rp ⁸	0 ³	4 ³	0 ²	7 ⁶		7 ⁴	9 ⁵	3 ³	2 ⁴		1 ³			
Cr	se	Y	3	Bodacious	5 ²⁶	4 ¹⁵	5 ⁷	6 ⁴	5 ²¹		5 ²⁰	9 ¹¹	5 ¹⁴	1 ⁶	1 ¹	1 ³	7 ³	6 ³	3 ³
Cr	se	Y	3	Bodacious RM	Rp ⁸	0 ³	0 ³	0 ²	7 ³		5 ³	5 ²	6 ³	1 ³	1 ¹	1 ¹	5 ¹		
Cr	sesyn	B	3	Bojangles	6 ¹⁵	6 ⁵	5 ⁶	6 ⁴	5 ¹⁰		5 ⁸	9 ⁷	5 ⁶	1 ⁷	1 ¹	1 ⁴	7 ¹	7 ²	
MM	se	B	2	Bon Appetit TSW	6 ¹²	7 ⁴	7 ⁶	5 ²	5 ⁷		6 ⁷	9 ⁶	4 ⁵	1 ⁵	1 ¹	2 ²	3 ¹	5 ²	
MM	se	B	2	Bon Jour TSW	5 ⁵	5 ¹	6 ²	5 ²	8 ³		8 ³	9 ³	6 ³	1 ³		1 ²	4 ¹		
MM	se	Y	3	Breeders Choice	7 ⁹	8 ⁴	6 ³	9 ²	4 ⁵		4 ⁴	8 ³	4 ⁵	1 ³	1 ¹	1 ¹	5 ¹		6 ²
MM	se	B	4	Brocade TSW	6 ¹⁹	6 ⁶	6 ⁸	5 ⁵	3 ¹²		4 ¹⁰	9 ¹⁰	3 ⁸	1 ⁸	1 ²	2 ⁴	3 ¹	6 ²	
Cr	sesyn	B	4	Cameo	4 ¹⁰	4 ³	4 ⁴	4 ³	5 ⁷		3 ⁵	9 ⁶	4 ⁴	1 ⁵		1 ⁴	5 ¹		

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Cr	sesyn	W	4	Captivate	4 ⁷	6 ²	4 ³	4 ²	5 ³		4 ³	9 ³	4 ³	1 ³	1 ¹	1 ¹	5 ¹		
Cr	sesyn	W	4	Celestial	5 ¹³	6 ⁴	5 ⁵	5 ⁴	4 ⁸		2 ⁶	9 ⁷	4 ⁵	5 ⁶	2 ¹	3 ⁴	5 ¹		
Sem	se	Y	2	Champ	4 ¹⁰	4 ⁸	6 ²		7 ⁸		6 ¹¹	9 ³	8 ⁵	1 ²		3 ¹	9 ¹		5 ¹
MM	se	W	2	Chantilly TSW	6 ⁵	7 ²	6 ²	6 ¹	5 ⁵		7 ³	9 ⁴	2 ³	1 ³		2 ²			
Sdw	sesyn	B	3	Charisma	4 ⁸	5 ²	4 ³	4 ³	4 ⁴		3 ⁴	9 ⁴	8 ⁴	2 ⁴	1 ¹	1 ²	2 ¹		
Cr	sesyn	W	4	Cinderella	5 ¹⁰	5 ³	5 ⁴	5 ³	5 ⁵		4 ⁵	8 ⁵	2 ⁴	1 ⁵	1 ¹	1 ³	4 ¹		
MM	se	W	4	Cloud Nine TSW	5 ¹²	5 ⁵	5 ⁵	5 ²	4 ¹⁰		3 ⁸	9 ⁸	4 ⁶	2 ⁵		1 ³		7 ³	
Rog	se	B	4	Code 955	6 ³	6 ¹	5 ¹	6 ¹	9 ¹		5 ¹	9 ¹	2 ¹	2 ¹	1 ¹				
Rog	se	W	4	Code 956	Rp ³	0 ¹	5 ¹	0 ¹	6 ¹		6 ¹	8 ¹	1 ¹	1 ¹	1 ¹	1 ¹			
Rog	se	Y	2	Code 958	8 ³	8 ¹	6 ¹	9 ¹	9 ¹		5 ¹	9 ¹	9 ¹	2 ¹	1 ¹				
Rog	se+	B	3	Code Exp 101	6 ²	6 ¹	5 ¹		4 ¹		1 ¹	9 ¹	6 ¹	1 ¹					
Rog	se+	W	3	Code Exp 107	Rp ²	0 ¹	5 ¹		5 ¹		4 ¹	8 ¹	3 ¹	1 ¹					
MM	se	B	3	Cohasset	9 ⁷	9 ²	8 ³	9 ²	7 ³		7 ³	8 ³	4 ³	1 ³	1 ¹	1 ¹	5 ¹		
MM	se	Y	3	Colorow TSW	7 ⁸	8 ²	7 ³	7 ³	5 ⁴		4 ⁴	9 ⁴	3 ⁴	2 ⁴	1 ¹	1 ²	4 ¹		
Cr	sesyn	B	2	CSYBF7-256	Rp ³	0 ¹	0 ¹	8 ¹	6 ¹		6 ¹	8 ¹	1 ¹	2 ¹	1 ¹				
Cr	sesyn	B	2	CSYBF7-257	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹		7 ¹	8 ¹	1 ¹	2 ¹	1 ¹				
Cr	sesyn	B	3	CSYBF7-258	7 ³	7 ¹	6 ¹	9 ¹	6 ¹		5 ¹	9 ¹	7 ¹	1 ¹	1 ¹				
Cr	sesyn	B	2	CSYBF7-263	6 ³	6 ¹	5 ¹	7 ¹	6 ¹		6 ¹	8 ¹	3 ¹	1 ¹	1 ¹				
Cr	sesyn	W	4	CSYWF7-260	7 ³	6 ¹	5 ¹	9 ¹	5 ¹		4 ¹	9 ¹	7 ¹	2 ¹	1 ¹				
MM	se	W	1	Debutant	7 ²	7 ¹	7 ¹		8 ¹		7 ¹	9 ¹	7 ¹	1 ¹					
Cr	se	B	4	Delectable	4 ²⁰	4 ¹⁰	4 ⁶	4 ⁴	5 ¹⁵		4 ¹²	9 ¹¹	3 ¹²	2 ⁵	1 ¹	1 ³	7 ³	8 ²	6 ³
MM	se	W	5	Denali	5 ¹¹	5 ³	5 ⁴	5 ⁴	4 ⁵		2 ⁵	9 ⁵	4 ⁵	4 ⁵	1 ²	1 ²	4 ¹		
MM	se	B	3	Double Play	8 ⁴	8 ²	7 ²		5 ²	Ht	4 ²	9 ²	4 ¹	2 ²		3 ¹			
Sdw	se	Y	1	Early Choice	5 ³	5 ²	5 ¹		5 ²		4 ¹	9 ¹	3 ²	1 ¹				3 ¹	
Sdw	se	B	2	Ecstase II	6 ⁵	7 ⁴	6 ¹		4 ⁴		5 ³	9 ³	7 ⁴	1 ¹			8 ²		
MM	se	B	2	Envoy	7 ⁵	7 ²	7 ²	9 ¹	7 ¹		6 ²	9 ²	4 ¹	1 ²	1 ¹				
Sem	sesy	B	1	EX 0872 5994	7 ⁵	9 ¹	7 ²	7 ²	6 ⁴		7 ³	9 ³	7 ²	1 ³		1 ³			
Sem	se	R	3	EX 84 1001 7	4 ³	4 ²		4 ¹	4 ³		6 ³	9 ³	2 ³			1 ¹	5 ¹	6 ¹	
Sem	se	W	3	Fantasia	4 ⁹	4 ⁷	5 ²		8 ⁷		8 ⁶	8 ⁴	6 ⁶	4 ²	3 ¹	7 ²		5 ¹	
MM	se	B	1	Fastlane	7 ⁵	8 ²	8 ²	6 ¹	8 ²		8 ²	9 ²	5 ¹	2 ²	1 ¹				
Cr	se	B	1	Fleet	6 ¹¹	7 ⁶	6 ⁵		9 ⁹		7 ⁸	8 ⁷	5 ⁵	1 ⁴		4 ²	9 ¹	9 ²	
Cr	sesyn	B	2	Frisky	6 ⁹	7 ³	6 ⁴	7 ²	9 ⁶		7 ⁵	9 ⁵	4 ³	1 ⁵		2 ⁴			
Cr	se	W	3	Frosty	6 ¹⁴	6 ⁶	6 ⁵	7 ³	7 ¹²		5 ¹⁰	8 ⁹	4 ⁹	1 ⁵		2 ³	7 ³	8 ³	
Sto	se	B	1	Geronimo	9 ¹	9 ¹			7 ¹		9 ¹							7 ²	
Rog	se	Y	3	GH 0851	Rp ⁵	0 ²	5 ²	0 ¹	7 ²		8 ²	8 ²	3 ²	1 ²		1 ¹	4 ¹		
Rog	se	Y	3	GH 2684	Rp ⁴	0 ³	5 ¹		8 ³		9 ³	9 ¹	2 ²	1 ¹				5 ²	

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern			
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB	
MM	se	Y	1	Head Start	6 ²	6 ¹	6 ¹		6 ¹		4 ¹	9 ¹	3 ¹	1 ¹						
HM	se	B	1	HMX 6358 BES	8 ¹⁰	8 ³	8 ⁴	8 ³	8 ³		8 ⁴	9 ⁴	7 ³	1 ⁴	1 ²	1 ¹				
Rog	se+	Y	4	Honey Select	5 ¹⁷	6 ⁶	5 ⁶	5 ⁵	7 ¹⁰		6 ⁸	9 ⁹	3 ⁷	1 ⁷	1 ²	1 ⁴	7 ²			
Cr	se	Y	4	Incredible	4 ²⁶	3 ¹⁶	4 ⁷	4 ³	6 ²¹		4 ¹⁹	9 ¹¹	5 ¹³	1 ⁶		1 ⁴	6 ³	5 ³	6 ⁴	
Sto	se	B	2	Ivanhoe	4 ³	4 ³			2 ³		6 ³		2 ²						6 ²	
Rog	se	B	4	Jackpot	Rp ⁶	0 ³	5 ³		5 ³		6 ²	9 ²	4 ³	1 ¹			6 ¹			
Rog	se	Y	5	Kandy Korn EH	4 ⁵	4 ⁴	6 ¹		5 ⁴		4 ⁴	9 ¹	3 ¹	1 ¹					6 ²	
Cr	sesyn	B	4	Kristine	5 ⁹	5 ³	5 ⁴	5 ²	5 ⁷		5 ⁵	8 ⁶	2 ⁴	1 ⁵		1 ⁴	3 ¹			
MM	se	B	5	Lancelot	3 ¹⁹	3 ⁹	3 ⁶	4 ⁴	3 ¹³		3 ¹²	9 ⁷	4 ⁸	1 ⁷	1 ¹	2 ⁴	2 ¹	6 ²	5 ²	
HM	se	Y	2	Legend	3 ³	3 ²	3 ¹		7 ²		8 ²		9 ¹							
MM	se	B	3	Luscious TSW	6 ¹⁷	6 ⁶	6 ⁸	6 ³	5 ¹¹		6 ⁹	9 ⁹	4 ⁷	1 ⁷	1 ²	2 ³	4 ¹	5 ²		
MM	se	B	5	Manitou	7 ⁷	9 ²	6 ³	8 ²	5 ³		6 ³	8 ³	4 ³	1 ³	1 ¹	1 ¹	6 ¹			
MM	syn	W	5	Mattapoisett	6 ⁷	7 ²	6 ³	8 ²	5 ³		6 ³	9 ³	4 ³	1 ³	1 ¹	1 ¹	6 ¹			
MM	se	Y	5	Merlin	3 ²¹	3 ¹¹	3 ⁷	3 ³	4 ¹⁶		2 ¹⁴	9 ¹¹	1 ¹¹	2 ⁶	1 ¹	1 ³	4 ³	5 ³	3 ¹	
Cr	se	Y	4	Miracle	3 ³³	2 ²⁰	4 ⁸	3 ⁵	3 ²⁶		1 ²⁵	9 ¹³	4 ¹⁵	2 ⁸	1 ²	1 ⁴	6 ³	6 ³	3 ⁵	
MM	se	W	4	Misquamicut	7 ¹¹	7 ³	7 ⁴	6 ⁴	5 ⁷		5 ⁵	9 ⁶	6 ⁵	1 ⁵	1 ¹	1 ³	7 ¹			
MM	se	B	3	Monomoy	7 ⁴	7 ¹	6 ²	8 ¹	5 ²		5 ²	9 ²	3 ²	1 ²		1 ¹	5 ¹			
MM	syn	B	5	Montauk	7 ¹³	8 ⁴	7 ⁵	7 ⁴	6 ⁸		5 ⁶	8 ⁷	7 ⁵	1 ⁶	1 ¹	1 ⁴	6 ¹			
Cr	se	B	3	Mystique	6 ¹⁴	6 ⁷	7 ⁶	4 ¹	3 ¹¹		3 ⁹	9 ⁹	5 ⁷	4 ⁵	1 ¹	7 ²	9 ¹	5 ³		
MM	syn	B	2	Nantasket	7 ⁷	9 ²	7 ³	7 ²	5 ⁶		6 ⁴	9 ⁵	4 ⁴	1 ⁴		1 ³	7 ¹			
MM	se	B	1	Native Gem	7 ¹²	7 ⁵	7 ⁴	8 ³	5 ⁵		5 ⁶	9 ⁵	6 ⁵	1 ⁴	1 ²	1 ¹	2 ¹	6 ¹	5 ¹	
MM	syn	B	5	Nauset	3 ⁸	3 ³	3 ³	4 ²	7 ⁶		2 ⁴	9 ⁵	6 ³	1 ⁴		2 ³				
Sto	se	B	2	Navajo					5 ¹		7 ¹			1 ¹				5 ¹		
MM	se	B	3	Ovation	5 ⁵	6 ²	5 ²	5 ¹	6 ²		5 ²	9 ²	2 ²	2 ²	1 ¹					
MM	se	B	3	Parfait	6 ⁴	6 ³	5 ¹		5 ³		4 ³	9 ³	5 ³	1 ¹			9 ¹	8 ¹		
Rog	se	B	5	Peaches & Cream Mid EH	7 ²	8 ¹	6 ¹		6 ¹		7 ¹	9 ¹	5 ¹	2 ¹					5 ¹	
Cr	sesyn	B	2	Polka	7 ¹⁰	8 ³	7 ⁴	8 ³	7 ⁷		6 ⁵	9 ⁵	3 ⁴	1 ⁵	1 ¹	1 ³	5 ¹			
MM	se	B	4	Precious Gem	4 ¹⁸	4 ⁶	4 ⁷	5 ⁵	4 ¹²		3 ¹⁰	9 ¹¹	2 ⁸	2 ⁸	1 ²	2 ⁴	2 ¹	4 ²		
MM	se	Y	1	Precocious	7 ⁵	8 ⁴	6 ¹		6 ⁴		8 ⁷	9 ¹	7 ²	1 ¹					9 ²	
Rog	se+	B	4	Providence	Rp ⁶	0 ³	5 ³		6 ⁴		6 ⁴	9 ²	3 ²	1 ³		1 ¹		7 ²		
HM	se	B	2	Reflection	7 ¹⁰	8 ³	6 ⁴	6 ³	4 ⁴		5 ⁴	8 ⁴	6 ⁴	1 ⁴	1 ²	1 ¹	5 ¹			
HM	sb	B	2	Renaissance	8 ¹			8 ¹	8 ¹		7 ¹	9 ¹	4 ¹			1 ¹				
HM	sb	B	1	Revelation	8 ⁹	9 ³	8 ⁴	8 ²	6 ⁷		8 ⁵	9 ⁵	9 ⁴	1 ⁵	1 ¹	1 ³	4 ¹			
MM	se	B	4	Saugatuck	7 ⁴	8 ¹	7 ²	6 ¹	6 ²		6 ²	8 ²	4 ²	1 ²		1 ¹	6 ¹			
Sem	se	B	3	SEM 15	6 ³	7 ¹	5 ¹	7 ¹	6 ¹		8 ¹	8 ¹	4 ¹	2 ¹	1 ¹					
Sem	se	B	3	SEM 31	7 ³	8 ¹	6 ¹	7 ¹	5 ¹		7 ¹	9 ¹	6 ¹	3 ¹	1 ¹					

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SdCo	ET	KC	RM	Hybrid	Common rust races				Nothern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Sem	se	Y	2	SEM 38	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹		4 ¹	2 ¹	6 ¹	2 ¹	1 ¹				
Sem	se	Y	2	SEM 39	Rp ³	0 ¹	0 ¹	0 ¹	6 ¹		3 ¹	1 ¹	6 ¹	3 ¹	1 ¹				
Sem	se	B	1	Seneca Arrowhead	6 ⁵	6 ⁴	7 ¹		7 ⁴		6 ⁴	8 ⁴	4 ⁴	1 ¹			8 ²	8 ¹	
Sem	se	B	4	Seneca Dancer	5 ⁷	5 ⁶	5 ¹		5 ⁷		5 ⁶	8 ⁴	4 ⁵	3 ²			6 ²	6 ²	4 ²
Sem	se	B	4	Sensor	4 ²⁶	3 ¹³	4 ⁸	4 ⁵	4 ¹⁹		5 ¹⁹	9 ¹²	3 ¹³	1 ⁸	1 ²	2 ⁴	5 ²	5 ³	3 ¹
Rog	se+	B	4	Serendipity	6 ⁵	6 ³	6 ²		6 ³		8 ³	9 ³	4 ²	1 ²		3 ¹	7 ¹		
MM	se	W	4	Shasta	5 ⁵	5 ²	5 ²	4 ¹	5 ²		5 ²	9 ²	4 ²	1 ²	1 ¹				
Rog	se	W	4	Silver King	4 ⁶	4 ⁴	4 ²		5 ⁵		5 ⁴	9 ⁵	3 ⁵	1 ¹			9 ¹	6 ¹	3 ¹
Sto	se	B	1	Speedy Sweet	9 ²	9 ²			9 ¹		8 ³		9 ¹						
MM	se	W	1	Spring Snow	6 ⁵	5 ²	7 ²	5 ¹	6 ²		5 ²	9 ²	7 ²	1 ²	1 ¹				
MM	se	Y	2	Spring Treat	5 ⁴	5 ¹	5 ²	6 ¹	6 ²		5 ²	8 ²	3 ²	1 ²		1 ¹	2 ¹		
Cr	se	Y	2	Sugar Buns	5 ²⁵	5 ¹⁶	6 ⁶	5 ³	4 ¹⁹		6 ¹⁷	9 ¹⁰	4 ¹²	1 ⁵	1 ²	2 ¹	8 ²	8 ³	5 ³
MM	se	W	2	Sugar Pearl TSW	6 ¹¹	6 ³	6 ⁴	6 ⁴	5 ⁷		6 ⁵	9 ⁶	4 ⁵	1 ⁵	1 ¹	1 ³	2 ¹		
MM	se	Y	5	Sumptuous	4 ³	5 ¹	4 ¹	3 ¹	5 ²		2 ²	9 ²	2 ²	2 ²		1 ¹			
Sem	se	Y	2	SVR 0873 5414	Rp ¹²	0 ⁴	6 ⁴	0 ⁴	6 ⁵		5 ⁵	2 ⁵	6 ⁵	1 ⁵	1 ²	1 ²	4 ¹		
HM	sb	B	2	Sweet Chorus	7 ¹²	7 ⁷	7 ⁴	5 ¹	8 ⁷		7 ⁶	7 ⁵	7 ⁶	1 ³	1 ¹	1 ¹	8 ²	9 ¹	
HM	se	W	3	Sweet Ice	7 ⁷	7 ⁵	8 ²		6 ⁵		6 ⁴	9 ³	4 ⁵	1 ¹			9 ²	9 ¹	1 ¹
HM	sb	B	3	Sweet Rhythm	7 ⁵	7 ⁴	8 ¹		6 ⁴		3 ³	9 ¹	4 ³				8 ¹	6 ¹	5 ²
Sem	sesu	R	5	Sweet Scarlet	4 ³	4 ¹	5 ¹	4 ¹	6 ³		8 ³	9 ⁴	2 ³	4 ¹		1 ¹		4 ¹	
Sem	sesy	B	3	Synergy	4 ¹¹	4 ³	5 ⁴	4 ⁴	4 ⁵	Ht	4 ⁵	8 ⁵	4 ⁵	1 ⁵	1 ²	1 ²	4 ¹		
Sem	se	B	1	Temptation	7 ¹⁴	7 ⁷	7 ⁴	7 ³	6 ⁸		6 ⁸	9 ⁶	9 ⁷	1 ⁵	1 ²	1 ²	9 ¹		9 ¹
Cr	se	B	2	Trinity	8 ¹⁹	7 ⁹	7 ⁷	8 ³	7 ¹⁴		6 ¹²	8 ¹¹	5 ⁹	1 ⁷	1 ¹	2 ⁴	6 ³	9 ³	
MM	se	Y	4	Tuxedo	3 ¹⁶	3 ⁶	4 ⁶	4 ⁴	3 ¹⁰		3 ¹⁰	9 ⁷	2 ⁹	2 ⁶	1 ²	1 ²	2 ¹	6 ²	
Sem	sesy	B	1	Vitality	8 ⁵	9 ²	7 ²	8 ¹	7 ²		6 ²	9 ²	5 ¹	1 ²	1 ¹				
MM	se	Y	2	Welcome TSW	6 ⁷	6 ²	7 ⁴	7 ¹	5 ³		6 ⁴	9 ⁴	5 ⁴	1 ²		1 ¹	3 ¹	8 ¹	
Rog	se	W	4	WH 0809	Rp ⁵	0 ²	0 ²	7 ¹	7 ²		7 ²	8 ²	3 ²	1 ²		5 ¹	8 ¹		
MM	se	W	2	White Out	7 ⁹	7 ³	7 ⁴	8 ²	6 ⁵		4 ⁵	8 ⁴	6 ²	1 ⁵	1 ¹	2 ²	4 ¹	7 ¹	
Shrunken-2 hybrids																			
IFS	sh2	Y	1	1168	7 ⁴	7 ¹	8 ²	7 ¹	8 ²	Ht	6 ²	9 ²	3 ¹	2 ²		1 ²	9 ¹		
IFS	sh2	Y	1	1169	7 ²	6 ¹	7 ¹		9 ¹		7 ¹	7 ¹		2 ¹		3 ¹			
IFS	sh2	Y	1	1171	6 ⁵	7 ¹	6 ²	5 ²	7 ⁴		5 ²	9 ³	4 ²	4 ²		3 ²	7 ¹		
IFS	sh2	Y	2	1174	7 ⁸	6 ³	7 ³	7 ²	7 ⁵		7 ³	9 ⁴	4 ²	2 ³		1 ²			
IFS	sh2	Y	3	1178	7 ⁹	7 ³	7 ⁴	7 ²	6 ⁶		6 ⁴	9 ⁵	2 ³	2 ⁴		2 ³	7 ¹		
IFS	sh2	Y	3	1179	5 ⁷	6 ²	5 ³	5 ²	6 ³		5 ³	8 ³	2 ³	3 ³	1 ¹	1 ¹	7 ¹		
IFS	sh2	Y	4	1181	Rp ⁹	0 ³	5 ³	0 ³	2 ⁶	Ht	4 ⁴	9 ⁵	3 ³	3 ⁴		2 ⁴	6 ¹		
IFS	sh2	Y	4	1183	Rp ⁷	0 ²	5 ²	0 ³	1 ⁵	Ht	4 ³	9 ⁴	1 ³	1 ³		2 ³	3 ¹		

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
IFS	sh2	Y	1	1270	5 ²		6 ¹	4 ¹	7 ¹		6 ¹	8 ¹	1 ¹	5 ¹		1 ¹	8 ¹		
IFS	sh2	Y	2	1274	5 ⁸	5 ²	5 ³	5 ³	4 ⁶		2 ⁴	9 ⁵	3 ³	4 ⁴		2 ⁴	8 ¹		
IFS	sh2	Y	2	1275	6 ⁷	6 ²	6 ³	6 ²	7 ⁵		6 ³	9 ⁴	4 ²	3 ³		2 ³			
IFS	sh2	Y	3	1278	6 ⁵	6 ¹	6 ²	7 ²	7 ⁴		7 ²	9 ³	2 ²	4 ²		2 ²	7 ¹		
IFS	sh2	Y	3	1279	5 ⁵	5 ¹	6 ²	5 ²	6 ⁴		7 ²	8 ³	2 ²	3 ²		3 ²	6 ¹		
IFS	sh2	Y	4	1280	Rp ¹²	0 ⁴	5 ⁴	0 ⁴	2 ⁷	Ht	2 ⁵	8 ⁶	1 ⁵	1 ⁵	1 ¹	1 ³	4 ¹		
IFS	sh2	Y	4	1283	Rp ¹²	0 ⁴	5 ⁴	0 ⁴	1 ⁷	Ht	2 ⁵	9 ⁶	1 ⁵	2 ⁵	1 ¹	2 ³	4 ¹		
IFS	sh2	Y	2	1373	6 ⁶	7 ¹	5 ²	6 ³	5 ⁵		3 ³	9 ⁴	4 ³	4 ³		1 ³	6 ¹		
IFS	sh2	Y	2	1377	8 ⁵	9 ¹	8 ²	7 ²	6 ⁴		4 ²	9 ³	2 ²	2 ²		2 ²	8 ¹		
IFS	sh2	Y	2	1472	6 ⁵	6 ¹	6 ²	5 ²	6 ⁴	Ht	4 ²	8 ³	6 ²	2 ²		2 ²	6 ¹		
IFS	sh2	Y	2	1575	7 ⁷	7 ²	7 ³	7 ²	5 ⁵	Ht	5 ³	9 ⁴	5 ³	3 ³		2 ²	7 ¹		
Bas	sh2	Y	4	1735	Rp ⁵	0 ²	5 ²	0 ¹	5 ²		3 ²	3 ²	1 ²	2 ²	1 ¹				
IFS	sh2	Y	3	1774	6 ²		6 ¹	6 ¹	8 ¹		7 ¹	7 ¹	2 ¹	7 ¹		8 ¹	7 ¹		
IFS	sh2	Y	3	1974	6 ²		6 ¹	6 ¹	7 ¹		6 ¹	9 ¹	1 ¹	4 ¹		1 ¹	7 ¹		
IFS	sh2	B	2	2170	7 ⁷	8 ²	6 ³	7 ²	7 ³		6 ³	9 ³	7 ³	1 ³	1 ¹	1 ¹	6 ¹		
IFS	sh2	B	2	2171	9 ²	9 ¹	8 ¹		9 ¹		6 ¹	9 ¹	3 ¹	2 ¹					
IFS	sh2	B	1	2172	6 ⁵	6 ²	7 ²	5 ¹	7 ⁴		6 ²	8 ³	5 ¹	2 ²		3 ²			
IFS	sh2	B	3	2178	Rp ⁸	0 ³	5 ³	0 ²	2 ³	Ht	2 ³	8 ³	2 ³	3 ³	1 ¹	1 ¹	4 ¹		
IFS	sh2	B	3	2179	6 ⁸	6 ²	5 ³	7 ³	5 ⁵		3 ³	9 ⁴	6 ³	3 ³	1 ¹	2 ²	8 ¹		
IFS	sh2	B	4	2180	Rp ⁵	0 ²	5 ²	0 ¹	2 ⁴	Ht	3 ²	9 ³	1 ¹	1 ²		3 ²			
IFS	sh2	B	4	2279	Rp ⁹	0 ³	5 ³	0 ³	2 ⁶	Ht	3 ⁴	9 ⁵	3 ³	1 ⁴		2 ⁴	5 ¹		
IFS	sh2	B	4	2280	Rp ¹¹	0 ⁴	5 ⁴	0 ³	2 ⁷	Ht	3 ⁵	9 ⁶	2 ⁴	1 ⁴		1 ⁴	7 ¹		
IFS	sh2	B	4	2281	Rp ¹⁴	0 ⁵	6 ⁵	0 ⁴	2 ⁸	Ht	2 ⁶	9 ⁷	3 ⁵	1 ⁵	1 ¹	1 ⁴	5 ¹		
IFS	sh2	B	3	2477	6 ⁵	7 ¹	6 ²	6 ²	7 ⁴	Ht	7 ²	8 ³	5 ²	6 ²		2 ²	7 ¹		
IFS	sh2	B	2	2573	7 ²	7 ¹	7 ¹		9 ¹		3 ¹	9 ¹	3 ¹	2 ¹					
IFS	sh2	B	2	2673	8 ²	7 ¹	8 ¹		9 ¹		4 ¹	8 ¹	2 ¹	3 ¹					
IFS	sh2	W	2	3173	7 ¹⁵	7 ⁵	7 ⁶	8 ⁴	6 ⁸		5 ⁶	9 ⁷	5 ⁵	4 ⁶	1 ²	2 ³	7 ¹		
IFS	sh2	W	3	3175	8 ¹⁰	8 ³	8 ⁴	8 ³	7 ⁴		5 ⁴	9 ⁴	5 ⁴	8 ⁴	8 ²	7 ¹	6 ¹		
IFS	sh2	W	4	3180	Rp ⁹	0 ³	5 ³	0 ³	2 ⁶	Ht	4 ⁴	8 ⁵	2 ³	1 ⁴		2 ⁴	5 ¹		
IFS	sh2	W	4	3181	Rp ⁹	0 ³	5 ³	0 ³	2 ⁶	Ht	4 ⁴	9 ⁵	3 ³	1 ⁴		2 ⁴	6 ¹		
IFS	sh2	W	3	3379	6 ⁴	7 ¹	6 ²	4 ¹	5 ²	Ht	4 ²	8 ²	4 ²	1 ²		1 ¹	4 ¹		
IFS	sh2	W	3	3474	6 ³	6 ¹	6 ¹	7 ¹	7 ¹		5 ¹	4 ¹	4 ¹	4 ¹	1 ¹				
IFS	sh2	B	3	15001	6 ²	5 ¹	7 ¹		4 ²		3 ²		3 ¹	3 ¹			5 ²		
IFS	sh2	Y	1	90570	6 ⁷	7 ³	6 ³	6 ¹	8 ⁶		4 ⁴	9 ⁵	5 ⁴	3 ¹		2 ¹		8 ²	
Sem	sh2	Y	5	0873 5590	Rp ⁹	0 ³	5 ³	0 ³	6 ⁴		4 ⁴	2 ⁴	6 ⁴	3 ⁴	1 ¹	1 ²	4 ¹		
Sem	sh2	B	4	0876 5391	Rp ⁸	0 ³	0 ³	0 ²	5 ³		5 ³	8 ³	7 ³	3 ³	1 ¹	1 ¹	9 ¹		

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SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
IFS	sh2	Y	4	1183 M-S34	Rp ³	0 ¹	5 ¹	0 ¹	2 ¹	Ht	3 ¹	4 ¹	2 ¹	3 ¹	1 ¹				
IFS	sh2	Y	1	170A	5 ⁷	6 ²	6 ³	4 ²	8 ⁶		7 ⁴	9 ⁴	7 ²	4 ⁴		3 ³	8 ¹	4 ¹	
IFS	sh2	Y	2	173A	6 ⁹	6 ³	5 ⁴	6 ²	7 ⁷		5 ⁵	9 ⁵	4 ³	3 ⁵		2 ³	6 ¹	7 ¹	
IFS	sh2	Y	2	175A	6 ⁷	6 ³	7 ³	5 ¹	5 ⁷		4 ⁵	9 ⁵	7 ⁴	3 ²		3 ¹		6 ³	
IFS	sh2	Y	3	176A	6 ⁴	6 ²	7 ²		6 ³		5 ³	8 ³	5 ³					6 ²	
IFS	sh2	Y	3	177A	6 ¹²	5 ⁵	6 ⁵	6 ²	6 ⁶		2 ⁶	9 ⁶	5 ⁶	9 ³	8 ²			5 ²	
IFS	sh2	Y	3	179A	5 ¹⁴	5 ⁵	6 ⁶	5 ³	4 ⁷		2 ⁷	8 ⁷	5 ⁷	3 ⁴	1 ²	1 ¹	8 ¹	5 ²	
IFS	sh2	Y	4	182A	Rp ¹⁵	0 ⁵	5 ⁵	0 ⁵	2 ⁹	Ht	2 ⁷	8 ⁹	2 ⁷	3 ⁵	1 ²	2 ³	4 ¹	3 ¹	
IFS	sh2	B	1	270A	8 ⁹	7 ⁴	8 ⁴	9 ¹	7 ⁷		6 ⁵	8 ⁶	3 ⁵	2 ²		1 ¹	9 ¹	8 ¹	
IFS	sh2	B	1	272A	8 ⁹	8 ⁴	8 ⁴	8 ¹	8 ⁷		6 ⁵	8 ⁶	3 ⁵	1 ²		2 ¹	9 ¹	8 ¹	
IFS	sh2	B	2	273A	5 ¹⁷	5 ⁷	6 ⁷	4 ³	8 ¹⁰		5 ¹⁰	9 ⁹	7 ⁸	3 ⁶	1 ²	1 ²	7 ²	5 ³	
IFS	sh2	B	2	274A	8 ⁹	8 ³	8 ⁴	8 ²	8 ⁶		6 ⁴	9 ⁵	6 ³	1 ⁴		1 ³	9 ¹		
IFS	sh2	B	2	275A	7 ¹¹	7 ⁴	7 ⁵	8 ²	6 ⁹	Ht	5 ⁷	9 ⁷	6 ⁶	2 ⁴		2 ²	8 ¹	7 ³	
IFS	sh2	B	3	276A	7 ⁷	6 ²	7 ⁴	7 ¹	6 ⁸	Ht	6 ⁶	8 ⁶	3 ⁵	2 ³		1 ¹		7 ³	
IFS	sh2	B	3	277A	6 ²⁰	6 ⁷	6 ⁸	7 ⁵	5 ¹³		3 ¹¹	9 ¹¹	3 ⁹	3 ⁸	1 ²	2 ⁴	7 ¹	6 ³	
IFS	sh2	B	3	278A	7 ¹⁴	6 ⁵	6 ⁶	7 ³	4 ⁹	Ht	3 ⁷	9 ⁸	3 ⁷	2 ⁴	1 ¹	2 ²	7 ¹	5 ²	
IFS	sh2	B	4	281A	Rp ¹⁰	0 ⁴	6 ⁴	0 ²	2 ⁷	Ht	3 ⁵	9 ⁵	3 ³	1 ⁵		3 ³	6 ¹	4 ¹	
IFS	sh2	B	4	282A	Rp ¹⁷	0 ⁷	5 ⁷	0 ³	2 ¹⁰	Ht	3 ⁸	9 ⁹	3 ⁷	2 ⁵	1 ¹	1 ³	5 ¹	5 ²	
IFS	sh2	W	1	372A	8 ⁹	7 ⁴	8 ⁴	9 ¹	7 ⁷		4 ⁵	9 ⁶	3 ⁵	2 ²		3 ¹		6 ²	
IFS	sh2	W	2	374A	7 ⁶	7 ³	6 ³		7 ⁴		7 ⁴	8 ⁴	4 ⁴	2 ¹				5 ²	
IFS	sh2	W	2	375A	7 ³	7 ¹	7 ¹	8 ¹	5 ⁴	Ht	5 ²	9 ²	7 ¹	3 ²		2 ¹		8 ¹	
IFS	sh2	W	3	378A	6 ¹¹	6 ⁴	6 ⁴	7 ³	4 ⁸	Ht	3 ⁶	9 ⁶	3 ⁶	2 ⁴		1 ³	6 ¹	5 ²	
IFS	sh2	W	4	382A	Rp ¹⁵	0 ⁶	6 ⁵	0 ⁴	2 ⁹	Ht	3 ⁷	8 ⁷	3 ⁷	2 ⁵	1 ¹	1 ³	5 ¹	5 ²	
Bas	sh2	Y	5	A 44	8 ³		6 ²	5 ¹	3 ²	Ht	4 ²	8 ²	2 ²	1 ²		1 ¹	6 ¹		
AC	sh2	Y	4	Abco Var 232 Y	Rp ⁶	0 ³	7 ²	0 ¹	4 ³	Ht	2 ³	5 ³	2 ³	2 ²	1 ¹		6 ¹		
AC	sh2	B	3	Abco Var 844 BC	7 ²	8 ¹	6 ¹		4 ¹	Ht	3 ¹	9 ¹	1 ¹	3 ¹					
AC	sh2	W	3	Abco Var 844 W	7 ⁴	7 ¹	7 ²	7 ¹	5 ²	Ht	4 ²	8 ²	3 ²	1 ²		1 ¹	6 ¹		
AC	sh2	Y	3	Abco Var 945 Y	Rp ⁴	0 ²	8 ²		5 ³	Ht	6 ³	9 ¹	6 ²	1 ²				7 ²	
AC	sh2	Y	4	ACcede MR Y	Rp ⁵	0 ²	0 ²	6 ¹	1 ²	Ht	5 ²	9 ²	2 ²	2 ²	1 ¹				
AC	sh2	Y	3	ACcelerator	Rp ²	0 ¹	7 ¹		4 ¹	Ht	5 ¹	8 ¹	5 ¹	2 ¹					
AC	sh2	Y	4	ACCensuate	Rp ⁷	0 ³	0 ²	5 ²	3 ⁴	Ht	5 ⁴	8 ⁴	2 ⁴	1 ⁴	1 ¹	1 ²	7 ¹		
AC	sh2+	Y	3	ACCession	9 ²	9 ¹	8 ¹		7 ¹	Ht	4 ¹	9 ¹	5 ¹	3 ¹					
AC	sh2	W	3	ACCrue	7 ⁶	7 ²	6 ²	8 ²	9 ³		4 ³	4 ³	6 ³	2 ³	2 ¹	1 ¹			
AC	sh2	B	3	ACX 420	6 ¹	6 ¹			6 ¹		8 ¹	9 ¹	4 ¹					4 ¹	
AC	sh2	B	3	ACX 950	6 ²	5 ¹	6 ¹		6 ¹		3 ¹		3 ¹					7 ¹	
AC	sh2	B	3	ACX 1027 BC	Rp ³	0 ¹	8 ¹	0 ¹	5 ¹		8 ¹	7 ¹	2 ¹	1 ¹		1 ¹	6 ¹		

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SdCo	ET	KC	RM	Hybrid	Common rust races				Nothern leaf		Stewart's		Herbicides			Southern			
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
AC	sh2	Y	3	ACX 1074 Y	8 ³	8 ²	8 ¹		6 ³	Ht	5 ¹	9 ³		3 ²		3 ¹			
AC	sh2	W	4	ACX 1204 MR W	Rp ⁸	0 ³	0 ³	5 ²	1 ³	Ht	4 ³	8 ³	1 ³	1 ³	1 ¹	1 ¹	6 ¹		
AC	sh2	Y	3	ACX 7038 MR Y	Rp ²	0 ¹	0 ¹		1 ¹	Ht	4 ¹	7 ¹	2 ¹	1 ¹					
Sdw	sh2	B	3	Awesome	5 ⁵	6 ²	5 ²	6 ¹	7 ²		2 ²	9 ²	6 ²	3 ²	1 ¹				
HM	sh2	Y	4	Bandit	Rp ¹⁰	0 ⁶	7 ³	0 ¹	8 ⁶	Ht	6 ⁵	3 ⁴	3 ⁶	2 ²	1 ¹		8 ²	7 ¹	5 ¹
Sem	sh2	Y	4	Basin R	Rp ¹²	0 ⁴	6 ⁴	0 ⁴	6 ⁵		6 ⁵	4 ⁵	4 ⁵	4 ⁵	1 ²	1 ²	6 ¹		
AC	sh2	Y	3	Beyond	Rp ¹²	0 ⁵	5 ⁵	0 ²	4 ¹⁰	Ht	3 ⁸	8 ⁹	2 ⁷	2 ⁶	1 ¹	2 ³	7 ¹	4 ²	
Sdw	sh2	B	3	Bicolor Saturn	5 ⁵	4 ³	6 ²		6 ⁴	Ht	3 ⁴	7 ⁵	6 ⁴	3 ¹			9 ¹	4 ¹	
Rog	sh2	B	3	Big Time	Rp ⁸	0 ⁵	6 ³		2 ⁶	Ht	4 ⁵	9 ⁶	6 ⁶	2 ¹			8 ²	4 ¹	
Rog	sh2	W	3	Boreal	Rp ⁹	0 ⁵	7 ³	0 ¹	2 ⁶	Ht	3 ⁶	9 ⁷	7 ⁶	3 ²	1 ¹		7 ²	4 ¹	
Cr	sh2+	Y	3	Bountiful	7 ⁷	8 ²	7 ³	7 ²	6 ³		7 ³	9 ³	5 ³	1 ³	1 ¹	1 ¹	8 ¹		
Rog	sh2	B	3	BSS 0977 VP A	Rp ¹⁵	0 ⁶	0 ⁶	0 ³	2 ¹⁰	Ht	4 ⁸	9 ⁹	7 ⁷	2 ⁵	1 ¹	1 ³		5 ²	
Rog	sh2	B	3	BSS 0982	Rp ¹¹	0 ⁴	6 ⁴	0 ³	7 ⁴		7 ⁴	4 ⁴	4 ⁴	2 ⁴	1 ²	1 ¹	7 ¹		
Rog	sh2	B	4	BSS 5362	Rp ²	0 ¹	6 ¹		9 ¹		9 ¹	8 ¹	5 ¹	1 ¹					
Cr	sh2+	B	4	Bueno	3 ⁵	3 ²	3 ²	6 ¹	5 ²		3 ²	9 ²	3 ²	3 ²	1 ¹				
Sem	sh2	Y	3	Challenger	6 ²²	6 ¹²	7 ⁶	6 ⁴	3 ¹⁷	Ht	4 ¹⁷	9 ¹¹	2 ¹²	1 ⁶	1 ¹	1 ⁴	7 ²	6 ¹	2 ³
IFS	sh2	Y	3	Chieftain	Rp ²	0 ¹	6 ¹		3 ¹				3 ¹						1 ¹
IFS	sh2	B	3	Chieftain BC	Rp ¹	0 ¹			3 ¹		5 ¹	9 ¹	4 ¹					4 ¹	
Rog	sh2	Y	2	Code 905	7 ³	7 ¹	8 ¹	6 ¹	7 ¹		6 ¹	7 ¹	4 ¹	1 ¹	1 ¹				
Rog	sh2	Y	3	Code 907	Rp ³	0 ¹	0 ¹	4 ¹	3 ¹	Ht	4 ¹	9 ¹	4 ¹	3 ¹	1 ¹				
Rog	sh2	Y	4	Code 913	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹	Ht	3 ¹	8 ¹	5 ¹	2 ¹	1 ¹				
Rog	sh2	Y	3	Code 916	6 ³	6 ¹	7 ¹	6 ¹	3 ¹	Ht	3 ¹	9 ¹	1 ¹	2 ¹	1 ¹				
Rog	sh2	Y	4	Code 917	3 ³	3 ¹	3 ¹	3 ¹	3 ¹	Ht	6 ¹	5 ¹	6 ¹	2 ¹	1 ¹				
Rog	sh2	Y	3	Code 919	Rp ³	0 ¹	0 ¹	4 ¹	4 ¹	Ht	6 ¹	9 ¹	6 ¹	3 ¹	1 ¹				
Rog	sh2	Y	2	Code 929	6 ³	6 ¹	6 ¹	6 ¹	6 ¹	Ht	9 ¹	9 ¹	3 ¹	2 ¹	1 ¹				
Rog	sh2	Y	2	Code 930	Rp ¹		0 ¹		3 ¹	Ht	4 ¹	9 ¹	6 ¹	3 ¹	1 ¹				
Rog	sh2	Y	3	Code 931	Rp ³	0 ¹	0 ¹	6 ¹	9 ¹		7 ¹	5 ¹	1 ¹	1 ¹	1 ¹				
Rog	sh2	B	4	Code 933	Rp ³	0 ¹	0 ¹	0 ¹	7 ¹		9 ¹	8 ¹	2 ¹	6 ¹	1 ¹				
Rog	sh2	Y	4	Code 934	Rp ³	0 ¹	0 ¹	3 ¹	5 ¹	Ht	4 ¹	4 ¹	5 ¹	3 ¹	1 ¹				
Rog	sh2	Y	4	Code 938	7 ³	7 ¹	7 ¹	6 ¹	6 ¹		6 ¹	5 ¹	2 ¹	2 ¹	1 ¹				
Rog	sh2	Y	4	Code 940	Rp ³	0 ¹	0 ¹	5 ¹	5 ¹	Ht	8 ¹	5 ¹	3 ¹	6 ¹	1 ¹				
Rog	sh2	Y	4	Code 941	7 ³	7 ¹	7 ¹	6 ¹	7 ¹		4 ¹	2 ¹	8 ¹	8 ¹	7 ¹				
Rog	sh2	Y	4	Code 942	Rp ¹		0 ¹		1 ¹		4 ¹	6 ¹	5 ¹	2 ¹	1 ¹				
Rog	sh2	Y	5	Code 944	Rp ³	0 ¹	0 ¹	4 ¹	2 ¹		1 ¹	5 ¹	6 ¹	2 ¹	1 ¹				
Rog	sh2	B	4	Code 951	Rp ³	0 ¹	0 ¹	0 ¹	6 ¹		9 ¹	7 ¹	5 ¹	7 ¹	1 ¹				
Rog	sh2	Y	4	Code 953	Rp ³	0 ¹	7 ¹	0 ¹	5 ¹		2 ¹	9 ¹	1 ¹	2 ¹	1 ¹				

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothern leaf		Stewart's			Herbicides			Southern			
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB	
Rog	sh2	W	3	Code 954	Rp ³	0 ¹	5 ¹	0 ¹	3 ¹	Ht	4 ¹	3 ¹	6 ¹	2 ¹	1 ¹					
Rog	sh2	Y	4	Code 959	Rp ³	0 ¹	7 ¹	0 ¹	3 ¹	Ht	4 ¹	3 ¹	5 ¹	2 ¹	1 ¹					
Rog	sh2	B	3	Code 960	Rp ³	0 ¹	3 ¹	0 ¹	3 ¹		2 ¹	7 ¹	1 ¹	1 ¹	1 ¹					
Rog	sh2	B	4	Code Exp 111	Rp ²	0 ¹	0 ¹		7 ¹		9 ¹	6 ¹	4 ¹	4 ¹						
Rog	sh2	B	3	Code Exp 120	Rp ²	0 ¹	6 ¹		5 ¹		2 ¹	7 ¹	1 ¹	1 ¹						
AC	sh2	W	3	Constellation	9 ³	9 ¹	9 ¹	9 ¹	7 ¹		4 ¹	9 ¹	6 ¹	2 ¹	1 ¹					
Cr	sh2+	Y	4	CSAYP6-225	7 ⁵	6 ²	7 ²	8 ¹	5 ²	Ht	1 ²	9 ²	6 ²	8 ²	8 ¹					
Rog	sh2	B	4	Cupola	5 ⁵	5 ³	6 ²		9 ³		8 ³	8 ¹	5 ³	3 ¹						5 ¹
AC	sh2	W	3	Desert Snow	6 ²	5 ¹	7 ¹		6 ¹		5 ¹	9 ¹	7 ¹	1 ¹						
Sem	sh2	W	5	Devotion	5 ¹⁶	5 ⁵	5 ⁶	5 ⁵	5 ⁹	Ht	5 ⁷	9 ⁸	4 ⁶	3 ⁷	1 ²	2 ⁴	7 ¹			
DM	sh2	Y	2	DMC 21-05	Rp ²	0 ¹	6 ¹		5 ¹	Ht	6 ¹	8 ¹	4 ¹	2 ¹						
DM	sh2	Y	4	DMC 21-84	Rp ¹²	0 ⁴	5 ⁴	0 ⁴	5 ⁵	Ht	3 ⁵	5 ⁵	6 ⁵	3 ⁵	1 ²	1 ²	5 ¹			
DM	sh2	Y	5	DMC 22-85	Rp ⁹	0 ³	5 ³	0 ³	6 ⁴		4 ⁴	2 ⁴	6 ¹	3 ⁴	1 ¹	1 ²	4 ¹			
IFS	sh2	B	2	Eagle	5 ²	5 ²			5 ²		3 ¹		5 ¹							4 ²
IFS	sh2	Y	3	Early Illini	8 ²	8 ²			5 ²		6 ²	9 ²	5 ²				9 ¹	4 ¹		
IFS	sh2	B	3	Early Illini BC	7 ²	7 ²			5 ²		6 ²	9 ²	5 ²				9 ¹	6 ¹		
SnRv	sh2	W	3	Everest	6 ¹²	6 ⁴	6 ⁵	6 ³	6 ⁷		7 ⁷	9 ⁵	3 ⁵	2 ⁶	1 ¹	1 ³	6 ¹	5 ²		
Sem	sh2sy	Y	2	EX 0841 3049	6 ⁹	6 ²	7 ³	5 ⁴	5 ⁶		5 ⁴	9 ⁵	6 ⁴	1 ⁴	1 ¹	2 ³	6 ¹			
Sem	sh2	B	3	EX 0870 5788	Rp ¹⁶	0 ⁶	7 ⁶	0 ⁴	6 ¹⁰		5 ⁸	4 ⁷	5 ⁶	3 ⁷	1 ¹	1 ⁴	8 ¹	7 ²		
Sem	sh2	B	3	EX 0874 5857	Rp ⁶	0 ²	0 ²	4 ²	3 ²	Ht	4 ²	8 ²	7 ²	3 ²	1 ¹	1 ¹	7 ¹			
Sem	sh2	B	3	EX 0874 6057	Rp ⁶	0 ²	0 ²	4 ²	3 ²	Ht	4 ²	7 ²	7 ²	5 ²	1 ¹	1 ¹	7 ¹			
IFS	sh2	Y	1	Extra Early Super Sweet	8 ⁴	7 ³	9 ¹		9 ³		9 ³	8 ²	7 ³	1 ¹			9 ¹			
IFS	sh2	B	2	Fantastic	7 ⁷	8 ²	7 ³	7 ²	7 ⁵		4 ³	9 ⁴	4 ³	4 ³		2 ²	9 ¹			
IFS	sh2	Y	5	Florida Staysweet	8 ¹³	8 ¹³			3 ¹³		3 ¹⁴	9 ²	3 ⁶				8 ²			3 ⁵
Cr	sh2	Y	4	Fortitude	Rp ¹²	0 ⁴	6 ⁴	0 ⁴	3 ⁵	Ht	6 ⁵	9 ⁵	5 ⁵	2 ⁵	1 ²	1 ²	8 ¹			
IFS	sh2	Y	2	Fortune	Rp ⁴	0 ⁴			4 ⁴		4 ³		2 ³							3 ²
SnRv	sh2	Y	4	Galaxy	Rp ¹¹	0 ⁴	7 ⁴	0 ³	5 ⁴	Ht	6 ⁴	9 ⁴	4 ⁴	1 ⁴	1 ²	1 ¹	6 ¹			
Rog	sh2	Y	3	Garrison	Rp ¹¹	0 ⁴	0 ⁴	0 ³	2 ⁴	Ht	2 ⁴	2 ⁴	4 ⁴	2 ⁴	1 ²	1 ¹	7 ¹			
SnRv	sh2	Y	5	Gladiator	Rp ²	0 ¹	4 ¹		3 ¹	Ht	3 ¹	7 ¹		1 ¹		1 ¹				
SnRv	sh2	Y	4	Goldensweet Improved	Rp ⁶	0 ²	5 ³	0 ¹	6 ⁶		8 ⁴	8 ⁵	2 ²	3 ³		3 ²				7 ¹
GG	sh2	Y	4	Green Giant Code 39	3 ⁷	3 ⁴	4 ³		5 ⁵		5 ⁴	8 ⁵	4 ⁵	1 ¹			9 ¹	6 ¹	5 ¹	
GG	sh2	Y	3	Green Giant Code 107	Rp ⁹	0 ⁴	6 ⁴	0 ¹	4 ⁷		3 ⁵	9 ⁴	3 ³	2 ⁴		4 ²		6 ²		
GG	sh2	Y	2	Green Giant Code 177	Rp ⁸	0 ³	7 ³	0 ²	5 ³	Ht	5 ³	8 ³	6 ³	2 ³	1 ¹	1 ¹	8 ¹			
GG	sh2	Y	4	Green Giant Code 179	Rp ⁸	0 ³	3 ³	0 ²	5 ³		5 ³	8 ³	6 ³	1 ³	1 ¹	1 ¹	7 ¹			
GG	sh2	Y	4	Green Giant Code 189	Rp ³	0 ¹	0 ¹	2 ¹	5 ²		4 ²	9 ²	6 ²	3 ²		1 ¹	7 ¹			
GG	sh2	Y	4	Green Giant Code 202	Rp ⁸	0 ³	0 ³	2 ²	4 ³		4 ³	5 ³	3 ³	2 ³	1 ²					

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
GG	sh2	Y	4	Green Giant Code 215	Rp ⁵	0 ²	0 ²	3 ¹	6 ²		7 ²	6 ²	1 ²	2 ²	1 ¹				
GG	sh2	Y	4	Green Giant Code 216	Rp ⁵	0 ²	0 ²	6 ¹	5 ²		4 ²	8 ²	6 ²	2 ²	1 ¹				
GG	sh2	W	4	Green Giant Code 217	Rp ⁵	0 ²	5 ²	0 ¹	7 ²		6 ²	9 ²	3 ²	2 ²	1 ¹				
GG	sh2	Y	2	Green Giant Code 221	Rp ³	0 ¹	0 ¹	0 ¹	6 ¹		8 ¹	9 ¹	7 ¹	2 ¹	1 ¹				
GG	sh2	Y	2	Green Giant Code 222	Rp ³	0 ¹	0 ¹	3 ¹	5 ¹	Ht	5 ¹	9 ¹	6 ¹	2 ¹	1 ¹				
GG	sh2	W	4	Green Giant Code 227	Rp ³	0 ¹	0 ¹	2 ¹	5 ¹		5 ¹	6 ¹	4 ¹	2 ¹	1 ¹				
GG	sh2	B	5	Green Giant Code 701	Rp ⁵	0 ²	5 ²	0 ¹	5 ⁴		5 ²	8 ³	3 ²	1 ²		2 ¹			
Rog	sh2	Y	3	GSS 0951	Rp ³	0 ¹	0 ¹	4 ¹	4 ¹	Ht	5 ¹	9 ¹	2 ¹	3 ¹	1 ¹				
Rog	sh2	Y	4	GSS 0952	Rp ³	0 ¹	0 ¹	4 ¹	2 ¹	Ht	5 ¹	9 ¹	8 ¹	3 ¹	1 ¹				
Rog	sh2	Y	3	GSS 0966 A	Rp ¹²	0 ⁶	0 ⁵	5 ¹	2 ⁷	Ht	4 ⁷	9 ⁷	7 ⁶	3 ³	1 ¹	1 ¹	7 ¹	5 ²	
Rog	sh2	Y	3	GSS 1477	Rp ⁹	0 ³	5 ³	0 ³	3 ⁴	Ht	4 ⁴	4 ⁴	3 ⁴	1 ⁴	1 ¹	1 ²	7 ¹		
Rog	sh2	Y	4	GSS 2259 P	Rp ³	0 ¹	0 ¹	5 ¹	4 ¹	Ht	4 ¹	3 ¹	3 ¹	5 ¹	1 ¹				
Rog	sh2	Y	4	GSS 4644	5 ⁹	4 ⁵	5 ³	5 ¹	3 ⁵	Ht	5 ⁵	9 ²	3 ⁴	6 ²	1 ¹		5 ¹	1 ²	
Rog	sh2	Y	2	GSS 5610	7 ³	6 ¹	6 ¹	8 ¹	6 ¹	Ht	7 ¹	8 ¹	2 ¹	2 ¹	1 ¹				
Rog	sh2	Y	3	GSS 5649	Rp ⁸	0 ³	6 ³	0 ²	4 ³	Ht	6 ³	3 ³	4 ³	2 ³	1 ²				
Rog	sh2	Y	4	GSS 5698	Rp ⁵	0 ²	6 ²	0 ¹	4 ²	Ht	4 ²	9 ²	3 ²	2 ²	1 ¹				
Rog	sh2	Y	4	GSS 5729	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹		5 ¹	4 ¹	4 ¹	2 ¹	1 ¹				
Rog	sh2	Y	5	GSS 6352	Rp ³	0 ¹	7 ¹	0 ¹	2 ¹	Ht	5 ¹	3 ¹	5 ¹	2 ¹	1 ¹				
Rog	sh2	Y	2	GSS 7158	Rp ³	0 ¹	0 ¹	0 ¹	5 ¹	Ht	3 ¹	4 ¹	3 ¹	1 ¹	3 ¹				
Rog	sh2	Y	2	GSS 7314	7 ⁵	9 ²	7 ²	7 ¹	9 ²		6 ²	9 ²	7 ²	2 ²	1 ¹				
Rog	sh2	Y	4	GSS 7568	Rp ³	0 ¹	6 ¹	0 ¹	7 ¹		7 ¹	4 ¹	4 ¹	2 ¹	1 ¹				
Rog	sh2	Y	4	GSS 7627	Rp ⁵	0 ²	6 ²	0 ¹	5 ²		3 ²	9 ²	3 ²	2 ²	1 ¹				
Rog	sh2	Y	3	GSS 7831	Rp ⁴	0 ¹	6 ³		5 ¹		6 ¹	9 ¹	5 ¹	3 ¹				5 ¹	
Rog	sh2	Y	5	GSS 8357	Rp ⁹	0 ⁴	6 ⁴	0 ¹	2 ⁷	Ht	3 ⁵	9 ⁴	7 ³	1 ⁴		2 ²		5 ²	
Rog	sh2	Y	5	GSS 8388	Rp ⁵	0 ²	6 ²	0 ¹	2 ⁵	Ht	6 ³	9 ³	6 ²	4 ³		2 ¹		4 ¹	
Rog	sh2	Y	4	GSS 8529	6 ⁸	6 ³	6 ³	7 ²	5 ⁵		3 ³	3 ⁴	6 ³	3 ³	1 ¹	4 ¹			
Rog	sh2	Y	3	GSS 9299	Rp ⁸	0 ⁵	6 ³		4 ⁵	Ht	3 ⁴	9 ⁴	4 ⁵	2 ¹			8 ²	4 ¹	
Rog	sh2	Y	5	GSS-0974-c	Rp ³	0 ¹	0 ¹	5 ¹	2 ¹	Ht	4 ¹	6 ¹	1 ¹	4 ¹	1 ¹				
SnRv	sh2	B	1	HB 0192 OJ	Rp ⁸	0 ³	7 ³	0 ²	9 ³		7 ³	9 ³	3 ³	1 ³	1 ¹	1 ¹	5 ¹		
SnRv	sh2	B	4	HB 1635 OP	Rp ³	0 ¹	9 ¹	0 ¹	5 ¹		6 ¹	8 ¹	3 ¹	2 ¹	1 ¹				
SnRv	sh2	B	3	HB 2450 OM	Rp ⁴	0 ¹	7 ²	0 ¹	7 ²		7 ²	9 ²	5 ²	2 ²	1 ¹				
SnRv	sh2	B	4	HB 2622 OM	Rp ⁵	0 ²	7 ²	0 ¹	7 ²		8 ²	9 ²	5 ²	2 ²	1 ¹				
SnRv	sh2	B	4	HB 2630 OM	Rp ⁷	0 ²	7 ³	0 ²	6 ³		7 ³	9 ³	3 ³	1 ³	1 ²				
SnRv	sh2	B	4	HB 2642 OM	Rp ⁵	0 ²	7 ²	0 ¹	7 ²		8 ²	9 ²	3 ²	2 ²	1 ¹				
SnRv	sh2	B	5	HB 4828 LN	Rp ⁴	0 ¹	5 ²	0 ¹	5 ²		8 ²	9 ²	3 ²	2 ²	1 ¹				
Rog	sh2	W	4	Heavenly	Rp ⁵	0 ²	7 ²	0 ¹	8 ²		6 ²	3 ²	4 ²	2 ²	1 ¹				

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Northern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
IFS	sh2	B	2	Heavyweight	9 ²	9 ²			8 ²		5 ¹			5 ¹					6 ²
HM	sh2	W	4	HMX 1368 WS	Rp ⁸	0 ³	6 ³	0 ²	7 ³		5 ³	3 ³	2 ³	1 ³	1 ¹	1 ¹	1 ¹		
HM	sh2	W	3	HMX 6360 WS	6 ⁵	7 ²	6 ²	6 ¹	8 ²		3 ²	3 ²	3 ²	2 ²	1 ¹				
HM	sh2	Y	3	HMX 6386 S	Rp ¹¹	0 ⁴	0 ⁴	6 ³	4 ⁴	Ht	4 ⁴	3 ⁴	4 ⁴	8 ⁴	8 ²	9 ¹			
HM	sh2	Y	3	HMX 7368 S	6 ⁵	7 ²	6 ²	5 ¹	5 ²		6 ²	9 ²	4 ²	1 ²	1 ¹				
HM	sh2	Y	4	HMX 7389 S	Rp ⁸	0 ³	0 ³	0 ²	4 ³	Ht	5 ³	9 ³	3 ³	5 ³	1 ²				
HM	sh2	Y	3	HMX 8342 S	6 ²	7 ¹	5 ¹		5 ¹	Ht	6 ¹	9 ¹	5 ¹	1 ¹					
HM	sh2	B	3	HMX 8343 BS	4 ⁵	5 ²	5 ²	4 ¹	7 ²	Ht	5 ²	9 ²	6 ²	2 ²	1 ¹				
HM	sh2	Y	3	HMX 8346 S	5 ⁵	6 ²	5 ²	6 ¹	3 ²		4 ²	9 ²	3 ²	1 ²	1 ¹				
HM	sh2	W	3	HMX 9347 S	6 ³	5 ¹	6 ¹	6 ¹	1 ¹		4 ¹	9 ¹	1 ¹	2 ¹	1 ¹				
HM	sh2	W	4	HMX 9349 S	8 ³	7 ¹	8 ¹	8 ¹	1 ¹	Ht	5 ¹	9 ¹	1 ¹	2 ¹	1 ¹				
HM	sh2	B	3	HMX 9350 S	Rp ³	0 ¹	0 ¹	9 ¹	7 ¹		6 ¹	3 ¹	3 ¹	3 ¹	1 ¹				
HM	sh2	Y	4	HMX 9352 S	5 ³	5 ²	6 ¹		5 ¹		7 ³		3 ¹						
HM	sh2	B	3	HMX 9353 S	8 ³	9 ¹	6 ¹	9 ¹	2 ¹		5 ¹	9 ¹	3 ¹	2 ¹	1 ¹				
HM	sh2	Y	3	HMX 9386 S	Rp ³	0 ¹	5 ¹	0 ¹	5 ¹		8 ¹	2 ¹	1 ¹	6 ¹	1 ¹				
HM	sh2	Y	3	HMX 9388 S	Rp ³	0 ¹	0 ¹	0 ¹	3 ¹	Ht	1 ¹	9 ¹	1 ¹	4 ¹	1 ¹				
HM	sh2	Y	3	HMX 9389 S	Rp ³	0 ¹	0 ¹	0 ¹	2 ¹	Ht	6 ¹	3 ¹	2 ¹	6 ¹	1 ¹				
HM	sh2	Y	4	HMX 9390 S	Rp ³	0 ¹	7 ¹	0 ¹	2 ¹	Ht	7 ¹	4 ¹	1 ¹	3 ¹	1 ¹				
HM	sh2	Y	4	HMX 9391 S	Rp ³	0 ¹	0 ¹	0 ¹	2 ¹		7 ¹	5 ¹	4 ¹	5 ¹	2 ¹				
HM	sh2	Y	4	HMX 9392 S	Rp ³	0 ¹	0 ¹	0 ¹	2 ¹		4 ¹	4 ¹	3 ¹	1 ¹	1 ¹				
HM	sh2	Y	4	HMX 9393 S	Rp ³	0 ¹	5 ¹	0 ¹	3 ¹		6 ¹	4 ¹	4 ¹	4 ¹	1 ¹				
HM	sh2	Y	3	HMX 9394 S	Rp ³	0 ¹	6 ¹	0 ¹	2 ¹	Ht	5 ¹	3 ¹	2 ¹	3 ¹	1 ¹				
Cr	sh2	B	5	Holiday	Rp ¹⁷	0 ⁶	7 ⁶	0 ⁵	1 ⁹	Ht	2 ⁷	9 ⁸	2 ⁶	1 ⁷	1 ²	2 ⁴	6 ¹		
Sem	sh2	B	4	Hollywood	Rp ¹⁸	0 ⁷	6 ⁷	0 ⁴	6 ¹²		5 ¹⁰	9 ¹⁰	6 ⁸	4 ⁷	1 ¹	3 ⁴	8 ¹	5 ³	
IFS	sh2	B	3	Honey and Pearl	6 ⁹	6 ⁶	6 ²	5 ¹	6 ⁸		4 ⁴	9 ³	4 ⁴	2 ²		3 ¹		5 ¹	
Cr	sh2	W	5	How Sweet It Is	6 ²³	6 ¹⁵	7 ⁵	6 ³	5 ¹⁹		4 ¹⁷	8 ¹⁰	4 ¹²	5 ⁵	1 ¹	1 ²	7 ²	5 ³	3 ⁵
SnRv	sh2	W	4	HW 1287 NF	7 ²	6 ¹	7 ¹		7 ²		5 ²		3 ¹	3 ¹				6 ²	
SnRv	sh2	W	4	HW 1622 OP	Rp ³	0 ¹	6 ¹	0 ¹	3 ¹		5 ¹	9 ¹	2 ¹	4 ¹	1 ¹				
SnRv	sh2	W	4	HW 2545 OM	Rp ⁷	0 ²	6 ³	0 ²	5 ³	Ht	5 ³	6 ³	4 ³	5 ³	2 ²				
SnRv	sh2	Y	4	HY0882 OP	Rp ³	0 ¹	9 ¹	0 ¹	5 ¹	Ht	9 ¹	8 ¹	3 ¹	2 ¹	1 ¹				
SnRv	sh2	Y	2	HY1027 OP	5 ³	5 ¹	5 ¹	5 ¹	2 ¹	Ht	5 ¹	9 ¹	3 ¹	2 ¹	1 ¹				
SnRv	sh2	Y	1	HY1089 OM	Rp ⁵	0 ²	7 ²	0 ¹	5 ³	Ht	9 ³	9 ³	7 ³	2 ³	2 ²				
SnRv	sh2	Y	2	HY1122 OP	Rp ³	0 ¹	7 ¹	0 ¹	8 ¹		8 ¹	9 ¹	6 ¹	2 ¹	1 ¹				
SnRv	sh2	Y	3	HY1656 ON	Rp ⁴	0 ¹	7 ²	0 ¹	8 ²		9 ²	9 ²	7 ²	2 ²	1 ¹				
SnRv	sh2	Y	5	HY850 ON	5 ³	5 ¹	6 ²		3 ²	Ht	7 ²	9 ²	3 ²	3 ²	1 ¹				
HM	sh2	W	3	Ice Queen	Rp ¹¹	0 ⁶	8 ³	0 ²	7 ⁷		4 ⁶	2 ⁵	5 ⁷	1 ³	1 ¹	1 ¹	6 ¹	5 ²	7 ¹

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
HM	sh2	W	3	Iceberg	7 ¹¹	7 ³	8 ⁴	7 ⁴	5 ⁵		4 ⁵	4 ⁵	3 ⁵	3 ⁴	1 ²	1 ²	9 ¹		
IFS	sh2	Y	5	Illini Extra-Sweet	7 ³	7 ²	7 ¹		6 ²		4 ²	9 ²	5 ²	1 ¹			6 ¹		
AC	sh2	W	3	Imperial Snow	7 ²	7 ¹	7 ¹		6 ¹		4 ¹	9 ¹	4 ¹	1 ¹					
Cr	sh2	Y	4	Juggernaut	Rp ⁴	0 ¹	3 ²	0 ¹	4 ²	Ht	4 ²	9 ²	1 ²	2 ²	1 ¹				
Sak	sh2	W	3	K2-501R	7 ²	7 ¹	6 ¹		6 ¹		4 ¹	9 ¹	7 ¹	1 ¹					
Sak	sh2	B	3	K7-318	Rp ³	0 ¹	6 ¹	0 ¹	5 ¹		4 ¹	9 ¹	4 ¹	2 ¹	1 ¹				
Rog	sh2	Y	3	Krispy King	7 ⁷	7 ⁴	7 ³		5 ³		7 ⁵	9 ¹	7 ³	3 ¹					7 ¹
SnRv	sh2	Y	5	Lancaster	Rp ¹¹	0 ⁴	6 ⁴	0 ³	4 ⁷	Ht	7 ⁵	8 ⁶	2 ⁴	1 ⁵		1 ⁴	6 ¹		
Rog	sh2	B	3	Legion	Rp ⁸	0 ³	0 ³	0 ²	1 ³	Ht	3 ³	2 ³	2 ³	2 ³	1 ²				
Sem	sh2	B	4	Madonna R	7 ⁵	8 ²	7 ²	5 ¹	8 ⁴		5 ²	9 ³	4 ²	2 ²		2 ¹			
Rog	sh2	Y	5	Magnum II	5 ⁸	6 ²	6 ³	4 ³	3 ⁴	Ht	3 ⁴	9 ⁴	4 ⁴	2 ⁴	1 ¹	1 ²	6 ¹		
IFS	sh2	B	3	Majesty	7 ⁵	7 ³	7 ¹	7 ¹	3 ⁴	Ht	6 ⁴	9 ³	4 ⁴	1 ¹		1 ¹	7 ²	4 ¹	4 ²
Cr	sh2	Y	2	Marvel	Rp ¹⁸	0 ⁹	6 ⁶	0 ³	5 ¹⁴		6 ¹¹	8 ¹⁰	3 ¹⁰	2 ⁵	1 ¹	1 ²	7 ²	8 ³	4 ²
Cr	sh2	Y	2	Marvel Edge	Rp ¹¹	0 ⁴	0 ⁴	0 ³	5 ⁴		5 ⁴	9 ⁴	5 ⁴	1 ⁴	1 ²	1 ¹	9 ¹		
SnRv	sh2	Y	5	Matador	Rp ²	0 ¹	5 ¹		2 ¹	Ht	3 ¹	3 ¹		1 ¹		3 ¹			
HM	sh2	Y	4	Max	Rp ¹⁶	0 ⁶	6 ⁷	0 ³	5 ⁸		3 ⁸	4 ⁷	3 ⁷	3 ⁵	1 ²	1 ¹	9 ¹	5 ³	
HM	sh2	Y	5	Megaton	Rp ⁸	0 ³	6 ³	0 ²	7 ⁶		7 ⁴	3 ⁴	3 ³	2 ⁴	1 ¹	4 ¹		3 ¹	
Cent	sh2	Y	3	Mirai 002	5 ⁴	5 ²	5 ²		6 ³		4 ³	9 ¹	5 ²	4 ²				6 ²	
Cent	sh2	Y	2	Mirai 003	5 ⁸	5 ³	5 ³	5 ²	7 ⁵		4 ⁵	4 ³	7 ⁴	3 ⁴	1 ¹	1 ¹			5 ²
Cent	sh2	Y	1	Mirai 130 Y	5 ⁸	6 ²	5 ³	4 ³	4 ⁶	Ht	5 ⁴	9 ⁵	8 ⁴	2 ⁴		2 ³	8 ¹		
Cent	sh2	Y	1	Mirai 131 Y	4 ⁸	5 ²	5 ³	4 ³	4 ⁴		5 ⁴	8 ⁴	7 ⁴	2 ⁴	1 ¹	1 ²	6 ¹		
Cent	sh2	Y	1	Mirai 148 Y	4 ¹⁰	4 ³	5 ⁴	4 ³	5 ⁴	Ht	4 ⁴	8 ⁴	9 ⁴	2 ⁴	1 ²	1 ¹	5 ¹		
Cent	sh2	B	3	Mirai 301 BC	6 ¹³	6 ⁴	6 ⁵	5 ⁴	7 ⁸		3 ⁶	9 ⁷	4 ⁵	3 ⁶	1 ¹	1 ⁴	8 ¹		
Cent	sh2	B	2	Mirai 308 BC	4 ¹³	5 ⁴	4 ⁵	3 ⁴	5 ⁸		4 ⁶	9 ⁷	9 ⁶	2 ⁶	2 ²	2 ³	7 ¹		
Cent	sh2	B	2	Mirai 336 BC	6 ⁹	6 ³	6 ³	5 ³	5 ⁴		1 ⁴	9 ⁴	2 ⁴	2 ⁴	1 ²	1 ¹			
Cent	sh2	B	4	Mirai 350 BC	5 ¹⁰	5 ³	5 ⁴	5 ³	4 ⁴	Ht	2 ⁴	9 ⁴	6 ⁴	1 ⁴	1 ²	1 ¹	8 ¹		
Cent	sh2	B	3	Mirai 351 BC	7 ²	8 ¹	6 ¹		5 ¹		2 ¹	9 ¹	7 ¹	1 ¹					
Cent	sh2	W	2	Mirai 421 W	6 ¹⁰	7 ³	6 ⁴	5 ³	6 ⁷		3 ⁵	9 ⁶	6 ⁵	1 ⁵	1 ¹	2 ³	9 ¹		
IFS	sh2	B	2	Nordic	7 ⁵	7 ³	8 ¹	7 ¹	6 ⁵		5 ²	9 ²	7 ²	3 ¹		3 ¹			
Sto	sh2	Y	2	Northern Supersweet	8 ³	8 ³			4 ³		7 ³		3 ¹						7 ¹
IFS	sh2	Y	1	Northern Xtra-Sweet	8 ²	9 ¹	7 ¹		8 ¹		7 ¹	9 ¹	4 ¹	1 ¹					
Sem	sh2sy	B	4	Obsession	Rp ¹⁸	0 ⁶	4 ⁷	0 ⁵	3 ¹⁰	Ht	3 ⁹	9 ⁹	3 ⁸	1 ⁷	1 ²	1 ³	9 ¹	7 ²	
Sem	sh2	B	4	Obsession R	Rp ³	0 ¹	5 ¹	0 ¹	3 ¹	Ht	1 ¹	8 ¹	4 ¹	2 ¹	1 ¹				
Cr	sh2+	B	3	Optimum	7 ¹⁴	7 ⁴	6 ⁵	7 ⁵	6 ⁸		6 ⁶	9 ⁷	5 ⁶	1 ⁶	1 ²	2 ³	7 ¹		
Rog	sh2	Y	5	Overland	Rp ⁹	0 ³	0 ³	4 ³	1 ⁴	Ht	2 ⁴	7 ⁴	4 ⁴	2 ⁴	1 ¹	1 ²	5 ¹		
Sem	sh2	Y	2	Passion	Rp ¹⁴	0 ⁵	4 ⁵	0 ⁴	3 ⁷	Ht	3 ⁷	9 ⁵	3 ⁶	2 ⁶	1 ²	1 ²	9 ¹	6 ²	

Table 2. Reactions of commercial and pre-commercial sweet corn hybrids in University of Illinois nurseries, 1984-2009

SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Cr	sh2+	B	2	Pick Me	8 ⁸	7 ³	8 ³	9 ²	6 ³		5 ³	9 ³	5 ³	1 ³	1 ²				
HM	sh2	B	4	Polaris	Rp ¹³	0 ⁵	7 ⁵	0 ³	7 ¹⁰		4 ⁸	4 ⁸	3 ⁷	3 ⁵	1 ¹	2 ²		5 ³	
Rog	sh2	Y	3	Prime Plus	Rp ¹⁷	0 ⁸	6 ⁷	0 ²	2 ¹¹	Ht	3 ⁸	9 ⁹	7 ⁹	2 ³	1 ¹	2 ¹	9 ²	5 ²	1 ¹
Rog	sh2	Y	3	Primetime	6 ¹⁴	6 ⁷	6 ⁶	5 ¹	3 ¹⁰	Ht	3 ⁷	9 ⁶	8 ⁷	2 ²		1 ¹	6 ¹	6 ¹	5 ²
Sem	sh2	B	2	Princeton	5 ⁸	4 ⁵	6 ²	7 ¹	6 ⁸		6 ⁶	9 ⁴	5 ⁵	1 ³		2 ¹	9 ¹	9 ¹	1 ¹
Rog	sh2	Y	3	Protégé	Rp ¹¹	0 ⁴	0 ⁴	3 ³	4 ⁶	Ht	4 ⁴	9 ⁵	4 ⁴	2 ⁴	1 ¹	2 ²	7 ¹		
Sem	sh2sy	Y	2	PX 93 8117 8	5 ¹²	5 ⁴	5 ⁵	5 ³	4 ⁹	Ht	5 ⁷	9 ⁶	2 ⁵	1 ⁶		1 ⁴	8 ¹	7 ²	
IFS	sh2	B	2	Radiance	7 ³	7 ³			6 ³		6 ³		9 ²						5 ³
Cr	sh2	Y	2	Rana	Rp ⁹	0 ³	6 ³	0 ³	3 ⁴	Ht	4 ⁴	8 ⁴	2 ⁴	1 ⁴	1 ¹	1 ²	6 ¹		
HM	sh2	Y	4	Ranger	8 ¹⁰	8 ³	8 ⁴	7 ³	2 ⁴	Ht	6 ⁴	3 ⁴	3 ⁴	3 ⁴	2 ²	1 ¹	6 ¹		
Rog	sh2	Y	2	Ravelin	Rp ¹¹	0 ⁴	5 ⁴	0 ³	6 ⁴	Ht	6 ⁴	8 ⁴	7 ⁴	1 ⁴	1 ²	1 ¹	6 ¹		
PV	sh2	Y	4	Rebecca	Rp ⁹	0 ³	7 ³	0 ³	3 ⁴	Ht	3 ⁴	6 ⁴	2 ⁴	2 ⁴	1 ¹	1 ²	5 ¹		
SnRv	sh2	Y	1	Rising Sun	Rp ¹¹	0 ⁴	5 ⁴	0 ³	6 ⁷		5 ⁵	8 ⁶	3 ⁴	1 ⁵		1 ⁴	5 ¹		
HM	sh2	Y	4	Rustler	Rp ¹⁶	0 ⁸	6 ⁶	0 ²	5 ¹¹	Ht	4 ⁹	3 ¹⁰	2 ⁸	1 ⁴	1 ¹	3 ²	6 ²	5 ²	
Cr	sh2	Y	4	Samurai	Rp ⁵	0 ²	6 ²	0 ¹	5 ²	Ht	5 ²	2 ²	6 ²	3 ²	1 ¹				
Sdw	sh2	Y	3	Saturn	5 ¹³	4 ⁶	5 ⁴	4 ³	6 ¹¹	Ht	3 ⁸	9 ⁸	4 ⁸	2 ⁴		1 ³	5 ²		2 ³
IFS	sh2	Y	2	Sch 4006	6 ³	6 ³			8 ²		9 ³		9 ¹						1 ¹
IFS	sh2	Y	2	Sch 4016	5 ²	5 ²			7 ²		5 ¹		7 ¹						3 ¹
IFS	sh2	Y	2	Sch 4023	8 ²	8 ²			5 ¹		8 ³		7 ¹						1 ¹
IFS	sh2	Y	3	Sch 4040	5 ²	5 ²			1 ¹		5 ³		3 ¹						
IFS	sh2	B	4	Sch 4407	6 ⁴	6 ⁴			2 ³		3 ⁵		5 ²						3 ³
IFS	sh2	B	1	Sch 4427	9 ²	9 ²			9 ²		7 ¹		5 ¹						
IFS	sh2	Y	3	Sch 5005	5 ⁵	5 ⁴	6 ¹		3 ⁴		4 ³	9 ¹	2 ⁴			6 ¹			5 ¹
IFS	sh2	Y	2	Sch 20693	9 ²	9 ²			6 ²		4 ²		5 ¹						5 ²
IFS	sh2	W	4	Sch 20705 wht	4 ¹			4 ¹	5 ¹		3 ¹	9 ¹	5 ¹	2 ¹		1 ¹			
IFS	sh2	B	1	Sch 23604 RpD	Rp ⁶	0 ²	7 ²	0 ²	5 ⁴		6 ²	8 ³	2 ²	1 ²		2 ²	7 ¹		
IFS	sh2	Y	5	Sch 30129	Rp ⁵	0 ³	7 ¹	0 ¹	2 ³	Ht	3 ³	6 ¹	2 ²	1 ¹		1 ¹	7 ¹		2 ²
IFS	sh2	Y	2	Sch 30131	Rp ⁵	0 ³	6 ¹	0 ¹	7 ⁴		6 ³	7 ¹	4 ³	1 ¹		1 ¹	8 ¹		2 ²
IFS	sh2	B	4	Sch 55141	Rp ⁵	0 ²	6 ²	0 ¹	3 ⁴	Ht	3 ¹	9 ²	1 ²	2 ¹		2 ¹			
IFS	sh2	Y	4	Sch 61144	Rp ⁵	0 ²	7 ²	0 ¹	2 ⁴	Ht	4 ¹	9 ²	2 ²	1 ¹		2 ¹			
IFS	sh2	Y	3	Sch 70064 RpD	Rp ¹²	0 ⁵	5 ⁵	0 ²	4 ¹⁰	Ht	3 ⁸	8 ⁹	2 ⁷	2 ⁶		2 ³	7 ¹	4 ²	
IFS	sh2	Y	5	Sch 71141	Rp ⁴	0 ¹	8 ¹	0 ²	2 ⁴	Ht	3 ²	9 ³	2 ²	1 ²		2 ²			
IFS	sh2	Y	4	Sch 81141	Rp ³	0 ¹	8 ¹	0 ¹	3 ³	Ht	3 ¹	9 ²	1 ¹	1 ¹		2 ¹			
IFS	sh2	B	2	Sch 86705	5 ⁴	5 ²	5 ¹	5 ¹	5 ⁴	Ht	5 ²	9 ³	6 ²	3 ¹		4 ¹	6 ¹		
IFS	sh2	B	5	Sch 96064	6 ³		6 ¹	6 ²	4 ²	Ht	4 ²	8 ²	1 ²	1 ²		1 ²	5 ¹		
Sem	sh2	Y	5	SEM 11	Rp ³	0 ¹	0 ¹	0 ¹	2 ¹	Ht	3 ¹	9 ¹	1 ¹	3 ¹	1 ¹				

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SdCo	ET	KC	RM	Hybrid	Common rust races				Nothorn leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
Sem	sh2	B	3	SEM 16	Rp ³	0 ¹	0 ¹	3 ¹	5 ¹	Ht	4 ¹	9 ¹	6 ¹	4 ¹	1 ¹				
Sem	sh2	B	3	SEM 17	Rp ³	0 ¹	0 ¹	2 ¹	4 ¹	Ht	4 ¹	9 ¹	5 ¹	4 ¹	1 ¹				
Sem	sh2	Y	4	SEM 18	Rp ⁵	0 ²	0 ²	0 ¹	4 ²	Ht	7 ²	9 ²	3 ²	2 ²	1 ¹				
Sem	sh2	Y	3	SEM 20	5 ³	5 ¹	5 ¹	5 ¹	4 ¹		6 ¹	8 ¹	3 ¹	2 ¹	1 ¹				
Sem	sh2	B	4	SEM 26	Rp ⁸	0 ³	0 ³	0 ²	3 ³	Ht	3 ³	9 ³	2 ³	1 ³	1 ²				
Sem	sh2	Y	4	SEM 27	Rp ⁵	0 ²	0 ²	0 ¹	2 ²	Ht	3 ²	9 ²	5 ²	2 ²	1 ¹				
Sem	sh2	B	3	SEM 28	Rp ³	0 ¹	0 ¹	6 ¹	5 ¹	Ht	3 ¹	9 ¹	6 ¹	2 ¹	1 ¹				
Sem	sh2	Y	5	SEM 32	Rp ³	0 ¹	0 ¹	3 ¹	5 ¹	Ht	6 ¹	9 ¹	1 ¹	1 ¹	1 ¹				
Sem	sh2	B	5	SEM 36	5 ³	5 ¹	5 ¹	4 ¹	4 ¹	Ht	5 ¹	7 ¹	1 ¹	2 ¹	1 ¹				
Sem	sh2	W	4	SEM 41	Rp ³	0 ¹	5 ¹	0 ¹	3 ¹	Ht	2 ¹	9 ¹	4 ¹	2 ¹	1 ¹				
Sem	sh2	B	5	SEM 42	4 ³	5 ¹	5 ¹	3 ¹	4 ¹	Ht	5 ¹	8 ¹	2 ¹	1 ¹	1 ¹				
HM	sh2	Y	5	Sentinel	Rp ¹⁷	0 ⁶	6 ⁶	0 ⁵	2 ¹⁰	Ht	4 ⁸	4 ⁷	3 ⁷	3 ⁷	1 ²	2 ³	4 ¹	5 ²	
Sem	sh2	Y	4	Shaker R	6 ⁷	6 ⁵	6 ²		6 ⁵		6 ⁴	9 ²	3 ⁴	1 ¹			6 ¹	4 ³	
Sem	sh2	Y	1	Sheba	8 ⁸	8 ⁵	9 ²	6 ¹	8 ⁶		7 ⁶	9 ³	4 ⁴	1 ²		1 ¹		9 ²	
Sem	sh2	Y	5	Shimmer	Rp ²⁴	0 ¹²	5 ⁷	0 ⁵	3 ¹⁶	Ht	4 ¹⁴	9 ¹³	2 ¹²	2 ⁷	1 ²	1 ⁴	5 ³	4 ¹	2 ³
Sem	sh2	Y	1	Signet	6 ³	8 ¹	5 ¹	5 ¹	5 ¹		4 ¹	9 ¹	5 ¹	2 ¹	1 ¹				
HM	sh2	W	4	Snow White	9 ²⁸	9 ¹⁴	9 ⁹	9 ⁵	7 ²⁰		7 ¹⁹	4 ¹²	3 ¹⁴	2 ⁸	1 ²	2 ⁴	8 ³	7 ³	7 ³
SnRv	sh2	Y	4	Spaceship	5 ¹⁰	4 ²	5 ⁴	4 ⁴	3 ⁵	Ht	4 ⁵	8 ⁵	2 ⁵	2 ⁵	1 ²	1 ²	5 ¹		
Sdw	sh2	B	4	Starship II	Rp ⁴	0 ²	5 ²		3 ³	Ht	4 ³	9 ⁴	1 ³	2 ¹			6 ¹		
Rog	sh2	Y	6	Sugar 73	2 ³	2 ²	3 ¹		5 ²		3 ²	3 ²	2 ²	1 ¹				2 ¹	
AC	sh2	Y	4	Summer Sweet 610 Y	Rp ⁸	0 ³	7 ³	0 ²	6 ⁷		8 ⁵	8 ⁵	5 ⁵	1 ³		2 ²		8 ²	
AC	sh2	Y	2	Summer Sweet 6800 R	Rp ⁵	0 ²	7 ³		5 ³		6 ³	9 ⁴	3 ³	1 ¹				6 ¹	
AC	sh2	W	2	Summer Sweet 6801 W	8 ²	8 ¹	8 ¹		5 ¹		4 ¹	9 ¹	5 ¹	1 ¹					
AC	sh2	B	2	Summer Sweet 6802 R	Rp ²	0 ¹	7 ¹		5 ¹		5 ¹	9 ¹	3 ¹	1 ¹					
AC	sh2	Y	3	Summer Sweet 7100	7 ⁴	7 ²	8 ²		7 ³		5 ³	8 ³	7 ²				4 ¹	5 ²	
AC	sh2	Y	2	Summer Sweet 7100 R	Rp ²	0 ¹	7 ¹		6 ¹	Ht	6 ¹	9 ¹	7 ¹	2 ¹					
AC	sh2	B	2	Summer Sweet 7102 R	Rp ⁵	0 ²	6 ²	0 ¹	6 ²	Ht	5 ²	9 ²	8 ²	2 ²	1 ¹				
AC	sh2	W	2	Summer Sweet 7111 W	8 ⁵	9 ²	7 ²	8 ¹	6 ²	Ht	6 ²	9 ²	8 ²	3 ²	1 ¹				
AC	sh2	Y	3	Summer Sweet 7210	6 ⁴	6 ⁴			1 ⁴		3 ⁷		1 ²					1 ¹	
AC	sh2	Y	3	Summer Sweet 7210 R	Rp ²	0 ¹	7 ¹		4 ¹		3 ¹	9 ¹	3 ¹	1 ¹					
AC	sh2	Y	4	Summer Sweet 7640 Y	Rp ⁵	0 ²	7 ²	0 ¹	2 ⁴	Ht	3 ²	9 ³	2 ²	2 ²		3 ¹			
AC	sh2	W	4	Summer Sweet 7641 MR W	Rp ⁷	0 ³	0 ²	7 ²	1 ³	Ht	3 ³	9 ³	2 ³	2 ³	1 ²				
AC	sh2	Y	4	Summer Sweet 7650 Y	Rp ⁸	0 ³	8 ³	0 ²	1 ⁵	Ht	2 ³	9 ⁴	3 ³	2 ³	3 ¹	2 ¹			
AC	sh2	W	4	Summer Sweet 8101 MR W	Rp ⁵	0 ²	0 ²	5 ¹	1 ²	Ht	4 ²	9 ²	1 ²	2 ²	1 ¹				
AC	sh2	W	4	Summer Sweet 8101 R	Rp ⁵	0 ²	8 ²	0 ¹	3 ²	Ht	3 ²	9 ²	1 ²	3 ²	1 ¹				
AC	sh2	B	4	Summer Sweet 8102 R	Rp ⁷	0 ²	6 ⁴	0 ¹	3 ³	Ht	4 ³	9 ⁴	1 ³	2 ²	1 ¹				

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SdCo	ET	KC	RM	Hybrid	Common rust races				Northern leaf		Stewart's			Herbicides			Southern		
					rust	avir	D-vir	G-vir	blight	Ht	wilt	MDM	SLB	Callisto	Laudis	Accent	rust	GLS	ALB
AC	sh2+	B	3	Summer Sweet MS 502 BC	7 ⁵	7 ²	8 ²	7 ¹	7 ²		8 ²	9 ²	5 ²	2 ²	1 ¹				
AC	sh2+	Y	3	Summer Sweet MS 820 Y	5 ⁹	6 ³	6 ³	5 ³	6 ⁶		4 ⁴	9 ⁵	5 ⁴	3 ⁴	1 ¹	2 ²			
AC	sh2+	Y	3	Summer Sweet MS 900 Y	6 ⁶	7 ²	7 ²	5 ²	6 ⁵		4 ³	9 ⁴	4 ³	2 ³		2 ²			
Rog	sh2	Y	4	Supersweet Jubilee	6 ²³	6 ¹²	6 ⁸	6 ³	7 ¹⁴		9 ¹²	8 ¹⁰	4 ¹⁰	4 ⁵	1 ²	3 ²	6 ³	4 ¹	7 ²
Rog	sh2	Y	4	Supersweet Jubilee Plus	Rp ¹⁹	0 ⁷	6 ⁸	0 ⁴	7 ¹⁰		8 ⁸	9 ⁸	5 ⁸	5 ⁶	1 ²	2 ³	6 ²	6 ¹	7 ¹
HM	sh2	Y	4	Suregold	Rp ¹⁹	0 ⁹	6 ⁷	0 ³	6 ¹⁰		5 ⁹	3 ⁹	3 ⁹	4 ⁵	1 ²	2 ²	0 ²	5 ²	
Sem	sh2	W	4	SVR 0870 5770	Rp ¹⁶	0 ⁶	6 ⁶	0 ⁴	5 ¹⁰		6 ⁸	3 ⁷	6 ⁶	7 ⁷	8 ¹	7 ⁴	5 ¹	6 ²	
Rsp	sh2	Y	4	Sweet Perfection	7 ⁴	7 ¹	7 ²	7 ¹	7 ²		3 ²	8 ²	5 ²	1 ²		1 ¹	8 ¹		
Rsp	sh2	Y	3	Sweet Shipper	5 ⁴	6 ¹	6 ²	4 ¹	7 ²		6 ²	9 ²	4 ²	1 ²		1 ¹	7 ¹		
Rsp	sh2	Y	2	Sweet Sunrise	5 ⁴	5 ¹	5 ²	4 ¹	7 ²		5 ²	8 ²	6 ²	2 ²		1 ¹	7 ¹		
Rsp	sh2	B	4	Sweet Surprise	5 ²	5 ¹	5 ¹		6 ¹		3 ¹	9 ¹	5 ¹	2 ¹					
Sem	sh2	Y	4	Sweet Talk	6 ¹⁰	6 ⁴	6 ⁴	7 ²	4 ⁸	Ht	4 ⁶	9 ⁵	2 ⁴	2 ⁵		1 ³		5 ²	
HM	sh2	Y	3	Sweetear	6 ⁶	6 ⁴	7 ²		6 ⁶	Ht	5 ⁶	9 ³	4 ⁴	1 ¹					5 ¹
Cr	sh2	W	4	Symmetry	Rp ¹¹	0 ⁴	4 ⁴	0 ³	3 ⁴		4 ⁴	4 ⁴	3 ⁴	5 ⁴	1 ²	1 ¹	5 ¹		
Rog	sh2	W	3	Tahoe	Rp ⁶	0 ³	6 ³		3 ⁵	Ht	5 ⁵	9 ⁴	3 ⁴	1 ²				5 ³	
Cr	sh2+	W	5	Tempest	6 ¹⁰	6 ³	6 ⁴	6 ³	5 ⁴		6 ⁴	8 ⁴	2 ⁴	3 ⁴	1 ²	1 ¹	6 ¹		
Cr	sh2	Y	5	Tribute	Rp ⁵	0 ²	7 ²	0 ¹	1 ²	Ht	3 ²	9 ²	2 ²	1 ²	1 ¹				
IFS	sh2	B	2	Triumph	7 ⁷	8 ²	6 ³	7 ²	7 ⁵		4 ³	9 ⁴	4 ³	2 ³		2 ²	9 ¹		
IFS	sh2	Y	2	Vision	8 ¹³	8 ⁴	8 ⁵	7 ⁴	7 ⁹		5 ⁷	9 ⁷	3 ⁵	2 ⁷	1 ¹	2 ⁴	7 ¹	7 ¹	
Sdw	sh2	W	3	White Saturn	5 ⁶	4 ²	5 ³	3 ¹	5 ³	Ht	3 ³	9 ⁴	6 ³	2 ²	1 ¹				
Rog	sh2	Y	4	Winstar	Rp ¹¹	0 ⁵	5 ⁵	0 ¹	2 ⁷	Ht	5 ⁷	9 ⁶	7 ⁵	2 ⁴	1 ¹	5 ¹		5 ³	
Rog	sh2	W	3	WSS 0987	Rp ²	0 ¹	7 ¹		2 ²	Ht	4 ²	9 ¹	3 ¹	2 ²				5 ¹	
Rog	sh2	W	3	WSS 1830	Rp ⁵	0 ²	0 ²	5 ¹	2 ²	Ht	2 ²	5 ²	7 ²	3 ²	1 ¹				
Rog	sh2	W	4	WSS 3681	Rp ⁴	0 ²	7 ²		7 ²		9 ²	9 ²	3 ²	1 ¹		7 ¹		7 ¹	
Rog	sh2	W	3	WSS 3801	Rp ⁵	0 ²	5 ²	0 ¹	4 ²	Ht	5 ²	4 ²	7 ²	3 ²	1 ¹				
Rog	sh2	W	4	WSS 3826	Rp ⁵	0 ²	0 ²	6 ¹	4 ²		5 ²	4 ²	6 ²	2 ²	1 ¹				
IFS	sh2	Y	2	Xtra Sweet 82	8 ¹⁰	8 ¹⁰			6 ¹⁰		6 ¹²		5 ³						5 ⁵

Disease reactions: 1 - resistant, 3- moderately resistant, 5 - moderate, 7- moderately susceptible, 9 -susceptible

Herbicide reactions: Tolerant (1-2), Intermediate (3-6), Sensitive (7-9)

Example: 5⁷ indicates that a hybrid has a moderate (5) reaction to that disease based on 7 trials (superscript indicates number of trials)

Seed source: AC - Abbott & Cobb, Bas - Basso, Cent - Centest, Cr - Crookham, DM - Del Monte, GG - Green Giant, HM - Harris Moran, IFS - Illinois Foundation Seeds, MM - Mesa Maize, PV - Pop Vriend, Rog - Rogers (Syngenta), Rsp - Rispens, Sak - Sakata, SdSv - Seed Savers, Sdw - Seedway, Sem - Seminis, SnR - Snowy River

ET - endosperm type: su - sugary1, se - sugary enhanced, sh2 - shrunken-2 (others classified within these three major endosperm types)

KC - kernel color: B - bicolored, R - red, W - white, and Y - yellow

RM - relative maturity: 1- first early, 2 - second early, 3- mid-season, 4- main season, and 5 - full season