SWEET CORN HYBRID DISEASE NURSERY – 2010

JERALD PATAKY, MARTY WILLIAMS*, BRYAN WARSAW, AND JIM MOODY*
DEPARTMENT OF CROP SCIENCES, UNIVERSITY OF ILLINOIS, AND USDA-ARS*, URBANA, IL 61801

Sweet corn hybrids have been evaluated for their reactions to prevalent diseases in nurseries at the University of Illinois for 27 consecutive years. This report summarizes the reactions of 439 sweet corn hybrids to common rust, NCLB, Stewart's wilt, MDM, and SCLB based on their performance in the 2010 nursery. These hybrids also were evaluated for their responses to two post-emergence herbicides: Capreno (tembotrione + thiencarbazone-methyl), and Accent (nicosulfuron).

Resistance and susceptibility are the two extremes of a continuum of host reactions to diseases. Resistance is a measure of the ability of the host to reduce the growth, reproduction, and/or disease-producing abilities of the pathogen, thus resulting in less severe symptoms of disease. Major genes for resistance, such as *Rp1-D*, *Ht1*, or *Mdm1*, can prevent or substantially limit disease development if specific virulence (i.e., races) is not prevalent in pathogen populations. Hybrids with major gene resistance usually have clearly distinguishable phenotypes. Major gene resistance may be ineffective if specific virulence occurs, such as the Rp1-D-virulent race of the common rust fungus.

In the absence of effective major gene resistance, disease reactions often range from partially resistant to susceptible. Hybrids can be grouped into broad classes such as: resistant (R), moderately resistant (MR), moderate (M), moderately susceptible (MS), and susceptible (S) based on severity of disease symptoms. This process produces statistically "overlapping" groups without clear-cut boundaries (e.g., the hybrid with least severe symptoms in MR class does not differ significantly from the hybrid with the most severe symptoms in the R class). Thus, boundries between categories of disease reactions are somewhat arbitrary. Nevertheless, a consistent response of a hybrid over several trials produces a reasonable estimate of the disease reaction of that hybrid relative to the response of other hybrids. These reactions can be used to assess the potential for diseases to become severe and affect yield of that hybrid.

Certain post-emergence herbicides also can injure some sweet corn hybrids. Responses of sweet corn hybrids to several cytochrome P450-metabolized herbicides have been associated with a mutation in a specific cytochrome P450 gene on chromosome 5S. Classification of sweet corn responses to herbicides identifies hybrids with the greatest risk of injury.

MATERIALS AND METHODS

Hybrids. The 2010 nursery included 439 entries: 300 *sh2* hybrids, 69 *se* hybrids, 64 *su* hybrids, and 6 bt2 hybrids. Hybrids with multiple endosperm mutations were placed in the most appropriate of the three categories. Standard hybrids with relatively consistent reactions to common rust, Stewart's wilt, NLB, MDM, and SLB (Table 1) also were included to compare the results of the 2010 nursery to those from previous nurseries. Hybrids known to carry the *Rp1-D*, *Rp1-I* or *Rp-G* rust resistance genes also were included as an aid in the interpretation of responses to different populations of *Puccinia sorghi*.

Table 1. Reactions of sweet corn hybrids included as standards in the 2010 disease nursery

	Stewart's wilt			Common rust (races)				NLB (races 0 &1)					MDM A&B			SLB		
Hybrid	Prior	10	Rating	Prior	avir	D	G	Prior	r0	r1	Rating		Prior	10	Rating	Prior	10	Rating
277A	3	4	3.7	6	6	6	6	5	6	5	36%	27%	9	8	97%	3	4	3.5
Ambrosia	2	3	3.2	6	5	5	5	5	5	5	31%	29%	9	9	100%	6	5	4.8
Bodacious	5	4	3.7	5	4	4	4	5	5	5	29%	27%	9	9	100%	5	6	5.3
Bonus	1	1	2	Rp	Rp	5	Rp	5*	5*	5	28%	24%	2	2	8%	6	8	6.5
El Toro	3	2	2.3	Rp	Rp	5	Rp	6	5	5	32%	29%	3	4	21%	3	4	3.8
Eliminator	2	2	2.1	Rp	Rp	5	Rp	6	7	6	39%	33%	2	2	9%	6	6	5.1
Garrison	2	2	2.7	Rp	Rp	Rp	Rp	2*	1*	3	11%	16%	2	2	3%	4	6	5.1
Jubilee	9	9	5.9	5	4	5	5	8	8	7	45%	38%	9	9	100%	4	6	4.9
Merit	5	5	4.3	8	6	7	7	6*	8*	5	41%	28%	9	9	98%	5	5	4.5
Merlin	2	2	2.7	3	2	3	2	4	4	5	26%	26%	9	9	97%	1	2	2.3
Miracle	1	3	2.8	3	2	3	3	3	4	4	23%	20%	9	9	100%	4	5	4
Obsession	3	4	3.4	Rp	Rp	4	Rp	3*	2*	3	15%	15%	9	9	100%	3	5	4.1
Sensor	5	6	4.5	4	4	4	3	4	5	5	28%	23%	9	8	87%	5	5	4.3
Tuxedo	3	6	4.5	3	3	4	5	2	3	3	19%	16%	9	9	100%	2	3	2.8

Prior - reaction in previous years (1984-2009).
10 - reaction in 2010: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 – susceptible, * = Ht-reaction..
Rating -2010 mean rating: 1 to 9 for Stewart's wilt and SLB; 0 to 100% severity of NLB, 0 to 100% incidence of MDM.

Table 2. Criteria for classifying hybrid reactions to diseases in the 2010 nursery

	Classification of reaction								
		Resistant	Moderately resistant			Moderate	Moderately susceptible			Susceptible
Disease (rating)	Rp	1	2	3	4	5	6	7	8	9
Rust (%)										
avirulent	0	< 10	< 16	< 21	< 25	< 30	< 34	<39	< 43	≥43
D-virulent	0	< 9	< 12	< 17	< 21	<28	<32	<37	<43	≥43
G-virulent	0	< 10	< 15	< 20	< 24	<32	<36	<40	> 45	≥45
NLB race 0 (%)		< 12	< 17	< 22	< 27	<33	<37	<41	> 46	≥46
NLB race 1 (%)		< 11	< 15	< 20	< 23	<31	<35	<39	> 43	≥43
Stewart's wilt (1-9)		< 2.1	< 2.8	<3.4	< 3.9	<4.4	< 4.9	<5.4	< 5.9	≥ 5.9
MDM-late (%)		< 5	<20	<20	<40	<60	<70	<80	≥ 80	≥ 90
MDM-early (%)		0	< 10	< 15	< 20	<40	<50	<60		
SLB (1-9)		< 2	<2.7	<3.5	<4	<4.9	<5. 4	<6	<7	≥7
Capreno (% injury)		0		>0		>10				>50
(% ht reduction)		<20		>20		>40				>50
Accent (% injury)		0		>0		>10		>40		>50
(% ht reduction)		<10		>10						>40

See text for description of disease and herbicide assessments.

Experimental design and procedures. Each trial of a disease or herbicide was a separate experiment with two replicates of hybrids arranged in randomized complete blocks. Each rep was split into two main blocks: *sh2* hybrids or *su* and *se* hybrids. Each experimental unit was a 12-ft. row with about 18 plants per row. Trials were planted in four different fields (Table 5) from May 24 to June 4 on the University of Illinois South Farms.

Inoculation and disease assessment. Plants at the 3- to 5-leaf stage were inoculated with *Pantoea stewartii* (Stewart's wilt) by wounding leaves in the whorl and introducing bacteria in a 0.1 M saline solution into wounds. For the three foliar fungal diseases, (NLB, SLB, and common rust) spores were sprayed directly into plant whorls from the 2- to 7-leaf stages. Inocula consisted of conidia of either race 0 or race 1 of *Exserohilum turcicum*; conidia of *Bipolaris maydis* race O; and urediniospores of one of three isolates of *Puccinia sorghi*: avirulent on Rp genes (avirulent), Rp1-D-virulent (D-virulent), or Rp-G/Rp1-I/Rp1-E-virulent (G-virulent). Plants were inoculated with *Maize dwarf mosaic virus* strain A (MDMV-A) and *Sugarcane mosaic virus* (MDMV-B) at the 2- to 3-leaf stages. A phosphate buffer solution with a mixture of the viruses was sprayed directly onto leaves using a motorized backpack sprayer.

The total number of plants and the number of plants with symptoms of MDM were counted approximately 1 and 3 wk after inoculation (early and late). Incidence (%) of MDM-infected plants was calculated for each hybrid from totals of both replicates. Symptom severity was rated for each of the other diseases.

Stewart's wilt was rated before anthesis using a scale from 1 (symptoms within 2 cm of inoculation wounds) to 9 (severe systemic infection or dead plants). Chlorotic, Rp-resistant reactions were scored in the rust trials about 2 to 3 wk after the first inoculation. Percent leaf area infected was rated at harvest maturity in all rust and NLB trials. Hybrids with chlorotic NLB-lesions typical of Ht-resistance also were noted. Symptoms of SLB were rated on a 1 to 9 scale (mild to severe).

Herbicide application and assessment. Post-emergence herbicides were applied at twice the registered usage rates when the majority of plants ranged from the 4- to 6-leaf stages and were about 8-18 inches tall. Herbicide treatments were Capreno (tembotrione + thiencarbazone-methyl) at 6.0 oz/A, and Accent (nicosulfuron) at 1.34 oz/A. Adjuvants included 1% crop oil concentrate (COC) and 28% urea ammonium nitrate (UAN) at 2.5% v/v. All fields were treated pre-emergence with metachlor + atrazine.

Percentage corn injury (i.e., chlorosis and necrosis) was rated visually 10-12 days after application. Plant height also was measured and expressed as a percentage of the height of non-treated plants in two replicates of a neighboring trial.

Data analysis. Disease and herbicide injury ratings were analyzed by ANOVA. Hybrid reactions to diseases and herbicides were classified from 1 (highly resistant/tolerant) to 9 (highly susceptible/sensitive) according to standard deviations from the mean (z-scores), Bayesian least significant difference (BLSD) separations (k=100), and ranks of standard hybrids.

RESULTS AND DISCUSSION

Symptoms ranged from slight disease to severely infected plants (Tables 6,7). Reactions of standard hybrids to Stewart's wilt, common rust, NLB, MDM, and SLB were relatively similar to mean reactions from previous trials (Table 1). The criteria for classifying hybrid reactions from the 2010 nursery are listed in Table 2. Table 7 includes disease

reactions and ratings of 439 hybrids **based solely on the 2010 trial**. This is the only data available for some of these hybrids. For hybrids that have been evaluated previously, an assessment of disease reactions based on multiple trials is the best estimate of hybrid performance.

Stewart's wilt. Stewart's wilt ratings (1 to 9) ranged from 1.5 to 7 with a mean of 4. Forty-six hybrids that were rated 5.4 or higher (i.e., frequent systemic infection) were classified as moderately susceptible to susceptible. Symptoms of Stewart's wilt were predominately non-systemic (rated less than 2.8) on 36 hybrids classified as resistant or resistant/moderately resistant. An additional 52 hybrids were classified as moderately resistant. Five hybrids rated 2 or below had highly resistant reactions. These included: Bonus, C1-7GFJ, Harvest Gold, Mirai 336 BC, and Sumptuous. If Stewart's wilt infection is non-systemic (i.e., ratings <3), yield is affected minimally, if at all.

Northern leaf blight. Severity of NLB (% leaf area symptomatic) ranged from 3% to 60% in all trials and averaged 30% in the race 0 trial and 27% in the race 1 trial. In the race 0 trial, 158 hybrids had chlorotic lesions indicative of *Ht*-gene resistance. Mean severity of NLB was 23% in both the race 0 and race 1 trials for those 158 hybrids; whereas for the 281 hybrids that did not have an Ht-resistant reaction, NLB severity averaged 34% and 29% in the race 0 and race 1 trials, respectively. Therefore, it appears that NLB severity was about 1/5 less severe (about 5% less leaf area infected) on hybrids with Ht-reactions in the race 0 as a result of resistance conveyed by an *Ht* gene.

Severity was 11% or less on seven hybrids classified as resistant to both races, including HMX 9349 WS, HMX 9355 S, HMX 9389 S, HMX 9390 S, HMX 9394 S, SEM 132, and Sweet Cynthia An additional 59 hybrids were classified from R to MR for both races with 21% or less leaf area infected. The effects of NLB on yield are minimal when severity is below 20%. Fifty-eight of the 66 hybrids with R to MR reactions to both races had Ht-resistant reactions; 51 were sh2; and 5 each were su, se, or bt endosperm mutants. Of the 32 hybrids with the most severe reactions to both races of NLB (≥43% severity), 23 were sh2 and 9 were su. None of the most susceptible hybrids had an Ht-resistant reaction.

Among hybrids that did not have Ht-resistant reactions, the correlation between NLB severity in race 0 and race 1 trials was 0.86. Among the hybrids with Ht reactions, the correlation between NLB severity in race 0 and race 1 trials was 0.80.

Maize dwarf mosaic. Incidence of MDM-infected plants ranged from 0 to 100% and averaged 67% and 76% at ratings made 1 wk (early) or 2-3 wk (late) after inoculation, respectively. Most hybrids (247) were classified as susceptible with >60% and >90% symptomatic plants at the early and late ratings, respectively. An additional 66 hybrids were classified as moderately susceptible/susceptible with >50% and >80% symptomatic plants at the early and late ratings, respectively. All hybrids classified as MS/S or S probably are completely susceptible (i.e., they do not carry genes for MDM resistance) although a few plants escaped infection.

Most of the 167 hybrids classified from R to M/MS (less than 80% incidence 2-3 wk after inoculation) probably carry the *Mdm1* gene although many may be heterozygous for this gene and/or may not carry additional "modifier" genes necessary for complete resistance to MDM. Consequently, 'MDM-resistant' hybrids displayed a range of responses. MDM-infected plants were not observed for 20 hybrids classified as resistant, including: 0875 5821, Code 1024, Code 1038, Code 1040, DMX 21-06, Enterprise, GH 6225, GH 6377P, GG Code 220, HMX 9389S, Hybrix 51, Legion, Max, SEM 115, SEM 130, SEM 135, SEM 150, Sweet Cynthia, UY 2587 OQ, and UY 2611 OQ. The incidence of symptomatic plants was 5% or less for an additional 12 hybrids classified as resistant. Forty-five hybrids were classified R/MR or moderately resistant with less than 20% incidence. An additional 29 hybrids with 20% to 70% MDM-infected plants were classified from MR/M to M/MS

Hybrids with R to M/MS reactions to MDM (≤ 60% incidence) were prevalent among su endosperm types (34 of 64), common among sh2 endosperm types (66 of 300) but relatively uncommon among se endosperm types (3 of 69).

Southern leaf blight. SLB ratings (1 to 9 scale) ranged from 1 to 8 and averaged 4.3. SLB was clearly more severe in this trial than in any previous UI disease nursery, probably due to an extended period of high temperatures and humidity. Ratings were 6 or above for 82 hybrids classified as MS to S. Ninety-nine hybrids rated below 3.5 were classified from R to MR. Nine of 11 hybrids rated below 2 and classified as resistant are adapted for tropical rather than temperate climates.

Common rust. Low levels of D-virulent and G-virulent *P. sorghi* occurred in all rust trials but this contamination was not prevalent early in the season when Rp-resistant reactions were rated soon after inoculation. However, as a consequence of the spread

of contaminant inocula, rust severity at fresh market harvest was not necessarily 0% on all Rp-resistant hybrids. For example, the hybrid Bonus, which carries the *Rp1-D* gene, had 10% and 7% leaf area infected in the avirulent and G-virulent trials as a result of D-virulent inocula spreading to those trials (Table 3). In comparison, rust severity was 21% on Bonus in the D-virulent trial in which the *Rp1-D* gene was ineffective against the virulent race. Similar reactions were observed on other hybrids with *Rp1-D* resistance, such as GSS 1477. Likewise, hybrids with *Rp-G* or *Rp1-I* genes, such as GH 2171 or GH 4927, were infected by contaminant inocula that was virulent against those genes (Table 3). Rust did not occur on hybrids that carried multiple Rp genes, such as Winstar (*Rp1-D* + *Rp1-I*) and Garrison (*Rp1-D* + *Rp-G*).

Table 3. Reactions of hybrids with known Rp genes in trials inoculated with different isolated of *Puccinia sorghi*

	Rust severity (%)		
Hybrid (Rp genes)	avirulent	D-virulent	G-virulent
Bonus (*Rp1-D*)	10	21	7
GSS 1477 (*Rp1-D*)	13	23	11
GH 2171 (*Rp-G*)	5	0	26
GH 4927 (*Rp1-I*)	6	0	23
Winstar (*Rp1-D* + *Rp-G*)	0	0	0
Garrison (*Rp1-D* + *Rp1-I*)	0	0	0

shaded areas - should be 0, rust due to contaminant inocula

Eighty hybrids were Rp-resistant in all three trials. Most of these hybrids probably carry the *Rp1-D* gene that conveys resistance to G-virulent isolates and an Rp gene that conveys resistance to D-virulent isolates (e.g., *Rp-G*, *Rp1-E*, or *Rp1-I*). Each inbred parent may contribute a different Rp gene or one inbred may contribute multiple Rp genes via "compound rust resistance" in which combinations of various Rp genes are closely linked in coupling phase, e.g., *Rp1-DGJ, Rp1-JFC,* or *Rp-GFJ*. Hybrids that segregated for Rp reactions to one or more isolates of *P. sorghi* are designated Rp* in Table 7.

An additional 62 hybrids were Rp-resistant to avirulent and D-virulent isolates, but susceptible in the G-virulent trial where severity ranged from 7% to 50% on these hybrids. These hybrids probably carry the *Rp-G, Rp1-I,* or *Rp1-E* gene. The remaining 121 Rp-resistant hybrids were resistant in the avirulent and G-virulent trials, while rust severity on these hybrids ranged from 6% to 37% in the D-virulent trial. These hybrids probably carry the *Rp1-D* gene.

Among the 174 hybrids that were not Rp-resistant, rust severity ranged from 8% to 50%, 7% to 48%, and 11% to 58% in the avirulent, D-virulent, and G-virulent trials, respectively. Ten hybrids were rated MR or better in all three trials including: Captain, GG 74, Incredible, Lancelot, Merlin, Miracle, PAC 612750, SEM 122, Sumptuous, and Synergy R. Eighteen hybrids with an average rust severity of 37% or higher were classified as MS to S in all three trials. Another 13 hybrids were classified MS to S in two of three trials.

Reactions to herbicides. Reactions to Accent and Capreno, two cytochrome P450-metabolized herbicides, were based on stunting (i.e., plant height expressed as a percentage of non-treated plots) and visual ratings of injury. Most hybrids (317) were classified tolerant (1) with no injury and little or no stunting. Eighty-one hybrids were classified as tolerant of one herbicide and moderately tolerant (3) of the other. Nine hybrids were severely injured or killed by both herbicides and were classified as sensitive (9), including: 177A, 3175, 0870 5770, Code 1038, DMC 20-38, GSS 5763, HMX 6386S, Merit, and UY 2587 OQ. Four of these nine hybrids are known to be homozygous for a mutant cytochrome P450 (CYP) allele that conditions sensitivity to several P450-metabolized, post-emergence herbicides. An additional 29 hybrids were classified as moderately sensitive (7) to moderately tolerant (3) to both herbicides. These hybrids probably are heterozygous for a mutant and functional CYP allele.

Based on previous research, 57 hybrids were known to be homozygous or heterozygous for CYP alleles that condition herbicide reactions. All four hybrids that were homozygous for the mutant cyp allele that conditions sensitivity were killed by Capreno or Accent (Table 4). Only two of the 34 hybrids that were homozygous for the functional CYP allele that conditions tolerance were mildly injured by Carpeno. Of 19 hybrids that were heterozygous for mutant and functional CYP alleles, about half were mildly to moderately injured by Capreno (3 or 5) and a quarter were mildly to moderately injured by Accent (3 or 5).

Table 4. Reactions of hybrids with known CYP alleles to Capreno (tembotrione + thiencarbazone-methyl) and Accent (nicosulfuron)

		Number of hybrids per category							
		Capreno				Accent			
		1	3	5-7	9	1	3	5-7	9
Homozygous sensitive	*cyp cyp*	0	0	0	4	0	0	0	4
Heterozygous	*CYP cyp*	10	7	2	0	14	4	1	0
Homozygous tolerant	*CYP CYP*	32	2	0	0	34	0	0	0

Category: 1- tolerant, 3- moderately tolerant, 5-moderate, 9-sensitive

Table 5. Protocol for the 2010 University of Illinois sweet corn hybrid disease nursery

Field, trial, and planting date	Inoculated	Rated
641-49 (May 24)		
avirulent rust (2 reps)	June 7, 10, 15, 17, 22, 28, 30	June 28-29 (Rp), July 27-28
MDM	June 7, 10	June 16 (early), 30 (late)
M5S (May 24)		
NLB race 0	June 8, 9, 15,18	July 29
G-rust (2 reps)	June 7, 9, 11, 15, 18, 21	June 29-30 (Rp), July 26-27
Cruse 1000W (May 26)		
D-rust	June 14, 17, 21, 23, 28, 30	June 30 (Rp), July 29
Stewart's wilt	June 14, 16	June 29
SLB	June 17, 21, 30	July 30
NLB race 1	June 14, 17, 21, 22, 29	August 2
Capreno (2 reps)	June 18	June 28-29
Accent (2 reps)	June 18	June 28-29
Cruse 1000W (June 4)		
Stewart's wilt	June 23, 25	July 6-7
MDM	June 21, 24	June 30 (early), July7 (late)
NLB race 0	June 22, 23, 25, 29; July 2, 6, 13	August 8
D-rust	June 21, 23, 25, 28, 30; July 6, 12	August 6-7
SLB	June 30; July 6, 12	August 7
NLB race 1	June 22, 23, 25, 29; July 2, 6, 13	August 8-9

Table 6. Number of hybrids in each category from the 2010 University of Illinois sweet corn disease nursery

		Resistant		MR	Moderate			MS	Susceptible	
Trial	Rp	1	2	3	4	5	6	7	8	9
Common rust										
avirulent	263	3	12	16	28	46	36	17	8	8
D-virulent	143	5	4	16	36	119	68	38	6	3
G-virulent	200	2	17	32	18	80	39	25	12	10
NLB race 0										
Ht-resistant rxn		18	19	36	35	34	8	7	1	0
no Ht-resistant rxn		0	1	11	25	83	55	43	48	14
NLB race 1		20	23	38	43	149	62	64	22	17
Stewart's wilt		5	30	52	106	129	67	29	10	7
MDM		32	36	9	18	6	5	20	66	247
SLB		11	27	61	50	155	50	40	34	8
Capreno		339		80		8		0		9
Accent		380		42		3		2		9

Participating seed programs

AC	Abbott & Cobb	**GG**	Green Giant	**MKS**	Mikado Kyowa
Adv	Advanta/Pacific	**HARC**	Hawaiian Agr. Res.	**PV**	Pop Vriend
Cent	Centest	**HM**	Harris Moran	**Rog**	Rogers (Syngenta)
Cr	Crookham Co.	**IFS**	Illinois Foundation Seeds	**Sem**	Seminis (Monsanto)
DM	Del Monte	**MM**	Mesa Maize	**SnRv**	Snowy River

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010

					Common rust						Stewart's		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					avir		D-vir		G-vir		wilt																	
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
Sugary hybrids																												
su	Y	5	Sem	0873 5807	**Rp**	4	**2**	11	**Rp**	4	**2**	2.2	**3**	17	**3**	21	Ht	**1**	3	0	**7**	5.8	**3**	3	87	**1**	0	100
su	Y	4	Sem	0875 5821	**Rp**	0	**Rp**	15	**Rp**	0	**2**	2.3	**3**	15	**4**	22	Ht	**1**	0	0	**7**	5.5	**1**	0	87	**1**	0	100
su	Y	5	Rog	Bonus	**Rp**	10	**5**	21	**Rp**	7	**1**	2	**5**	24	**5**	28	Ht	**2**	8	3	**8**	6.5	**1**	0	100	**1**	0	100
su	W	3	Cr	C1-7GFJ	**Rp**	0	**Rp**	0	**Rp**	0	**1**	1.5	**5**	23	**5**	28		**9**	98	90	**5**	4	**1**	0	95	**3**	5	100
su	Y	4	SnRv	Captain	**3**	16	**3**	15	**3**	15	**5**	4	**7**	38	**7**	38		**8**	93	87	**5**	4.3	**3**	5	84	**1**	0	100
su	B	4	Rog	Code 1001	**Rp**	5	**Rp**	5	**5**	29	**5**	4.3	**7**	37	**7**	37		**3**	20	3	**4**	3.8	**1**	0	100	**1**	0	100
su	Y	4	Rog	Code 1007	**Rp**	15	**4**	19	**Rp**	9	**3**	3.2	**6**	31	**6**	34		**1**	3	0	**3**	3	**1**	0	91	**1**	0	98
su	Y	4	Rog	Code 1008	**Rp**	4	**Rp**	0	**3**	16	**4**	3.5	**4**	21	**4**	26	Ht	**3**	14	14	**7**	5.5	**3**	0	74	**1**	0	100
su	B	3	Rog	Code 1009 A	**Rp**	6	**Rp**	5	**6**	32	**5**	4.3	**7**	37	**7**	39		**2**	8	0	**5**	4.5	**1**	0	100	**1**	0	100
su	Y	2	Rog	Code 1010 A	**4**	21	**4**	20	**5**	31	**6**	4.7	**5**	24	**3**	18		**9**	97	97	**5**	4.5	**1**	0	100	**1**	0	100
su	W	3	Rog	Code 1012 A	**Rp**	12	**5**	21	**Rp**	5	**4**	3.8	**5**	29	**5**	31		**8**	94	94	**3**	3	**1**	0	100	**1**	0	100
su	Y	4	Rog	Code 1015	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.2	**4**	22	**4**	23	Ht	**2**	8	3	**5**	4.5	**1**	0	94	**5**	18	93
su	Y	3	Rog	Code 1016	**Rp**	3	**Rp**	0	**3**	17	**4**	3.8	**5**	30	**6**	35		**8**	89	86	**6**	5	**1**	0	88	**1**	0	93
su	Y	4	Rog	Code 1017	**Rp**	3	**Rp**	0	**2**	13	**3**	3	**5**	25	**5**	29	Ht	**6**	66	16	**7**	5.5	**1**	0	98	**1**	0	100
su	Y	4	Rog	Code 1018	**Rp**	7	**Rp**	0	**6**	34	**5**	4	**4**	22	**4**	23	Ht	**3**	11	3	**3**	3	**1**	0	100	**1**	0	100
su	Y	3	Rog	Code 1024	**Rp**	0	**Rp**	0	**Rp**	1	**7**	5	**9**	47	**8**	44		**1**	0	0	**7**	5.5	**1**	0	100	**1**	0	100
su	Y	2	Rog	Code 1025	**7**	38	**6**	30	**9**	46	**5**	4.3	**8**	39	**9**	46		**9**	100	93	**9**	7	**1**	0	89	**3**	0	85
su	Y	5	Rog	Code 1035	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.7	**2**	13	**1**	9	Ht	**2**	15	0	**5**	4.3	**1**	0	100	**1**	0	100
su	Y	3	Rog	Code 1038	**4**	24	**5**	23	**5**	29	**6**	4.7	**5**	30	**6**	34		**1**	0	0	**8**	6.5	**9**	85	45	**9**	80	45
su	Y	5	Rog	Code 1040	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.7	**4**	22	**4**	26	Ht	**1**	0	0	**5**	4.3	**1**	0	100	**1**	0	100
su	Y	4	HM	Coho	**Rp**	13	**5**	24	**Rp**	7	**6**	4.8	**7**	35	**9**	49		**7**	73	21	**5**	4.5	**3**	3	100	**1**	0	100
su	Y	4	Cr	CSUYP6-205	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.5	**7**	37	**7**	40		**8**	93	93	**8**	6	**1**	0	97	**1**	0	100
su	Y	4	Cr	CSUYP8-340	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.3	**8**	40	**8**	42		**2**	2	2	**7**	5.5	**1**	0	100	**1**	0	100
su	Y	4	DM	DMC 20-38	**Rp**	10	**6**	29	**Rp**	6	**8**	5.5	**8**	42	**9**	58		**9**	100	100	**5**	4.8	**9**	98	22	**9**	98	26
su	Y	3	HM	Dynamo	**Rp**	9	**5**	22	**Rp**	10	**6**	4.7	**7**	37	**9**	53		**3**	16	5	**7**	5.5	**1**	0	92	**1**	0	100
su	Y	4	Sem	El Toro	**Rp**	15	**5**	24	**Rp**	18	**2**	2.3	**5**	29	**5**	32		**4**	21	3	**4**	3.8	**1**	0	93	**1**	0	100
su	Y	4	Cr	Eliminator	**Rp**	14	**5**	27	**Rp**	9	**2**	2.1	**6**	33	**7**	39		**2**	9	0	**6**	5.1	**1**	0	100	**3**	4	100
su	Y	5	Rog	Elite	**Rp**	19	**5**	22	**Rp**	11	**4**	3.5	**6**	33	**8**	45		**2**	13	0	**7**	5.5	**1**	0	99	**1**	0	100
su	Y	5	SnRv	Enterprise	**Rp**	8	**4**	17	**Rp**	7	**3**	3.2	**3**	16	**4**	24		**1**	0	0	**3**	3	**1**	0	100	**1**	0	100
su	Y	5	Rog	GH 0937 A	**Rp**	13	**5**	21	**Rp**	5	**3**	2.8	**4**	20	**4**	26	Ht	**1**	3	0	**7**	5.8	**1**	0	100	**1**	0	100
su	Y	4	Rog	GH 0991	**Rp**	0	**Rp**	0	**Rp**	0	**2**	2.5	**5**	30	**7**	37		**2**	6	9	**4**	3.5	**1**	0	92	**1**	0	100
su	Y	2	Rog	GH 2171	**Rp**	5	**Rp**	0	**5**	26	**6**	4.7	**7**	38	**5**	27	Ht	**5**	50	0	**7**	5.5	**1**	0	96	**1**	0	97
su	Y	4	Rog	GH 2547	**Rp**	12	**4**	20	**Rp**	7	**4**	3.7	**7**	36	**8**	45		**4**	26	0	**6**	5	**1**	0	99	**1**	0	100
su	Y	3	Rog	GH 3281	**Rp**	2	**Rp**	0	**2**	10	**3**	3.3	**6**	31	**4**	25	Ht	**4**	39	3	**7**	5.5	**1**	0	89	**1**	0	100
su	Y	3	Rog	GH 4927	**Rp**	6	**Rp**	0	**4**	23	**8**	5.7	**9**	44	**9**	48		**9**	97	91	**5**	4.5	**3**	8	100	**1**	0	100
su	Y	5	Rog	GH 6225	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**5**	30	**5**	32	Ht	**1**	0	0	**6**	5.3	**1**	0	93	**1**	0	100
su	Y	4	Rog	GH 6377 P	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**6**	33	**5**	31	Ht	**1**	0	0	**6**	5	**1**	0	100	**1**	0	100
su	Y	4	GG	Green Giant Code 74	**1**	8	**1**	7	**2**	12	**2**	2.7	**4**	21	**5**	28		**8**	92	90	**5**	4.8	**3**	5	84	**1**	0	99
su	Y	2	GG	Green Giant Code 204	**Rp**	6	**3**	16	**Rp**	4	**4**	3.8	**6**	31	**7**	37		**9**	100	90	**7**	5.5	**1**	0	98	**1**	0	100
su	Y	2	GG	Green Giant Code 206	**Rp**	9	**3**	15	**Rp**	5	**5**	4	**6**	33	**7**	38		**9**	97	94	**7**	5.5	**1**	0	96	**1**	0	100
su	Y	4	GG	Green Giant Code 210	**Rp**	2	**Rp**	0	**3**	15	**5**	4.3	**5**	26	**5**	29		**7**	77	38	**2**	2.5	**3**	5	88	**1**	0	100
su	Y	1	GG	Green Giant Code 218	**Rp**	11	**Rp**	4	**9**	50	**5**	4	**8**	42	**8**	45		**8**	94	97	**4**	3.8	**1**	0	98	**1**	0	100
su	Y	1	GG	Green Giant Code 219	**8**	41	**7**	36	**9**	48	**5**	4.2	**8**	42	**9**	46		**9**	97	97	**5**	4	**1**	0	100	**1**	0	100
su	Y	4	GG	Green Giant Code 220	**Rp**	0	**Rp**	0	**Rp**	0	**2**	2.7	**6**	33	**6**	36		**1**	0	0	**6**	5.3	**1**	0	99	**1**	0	100

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
su	Y	4	GG	Green Giant Code 238	**Rp**	1	**Rp**	0	**1**	7	**2**	2.2	**3**	18	**3**	21	Ht	**1**	3	0	**6**	5	**1**	0	97	**1**	0	100
su	Y	4	Sem	Harvest Gold	**Rp**	5	**2**	9	**Rp**	3	**1**	1.5	**2**	13	**3**	18	Ht	**9**	100	84	**7**	5.5	**1**	0	93	**1**	0	100
su	Y	3	Cr	Intrigue	**Rp**	5	**3**	13	**Rp**	5	**5**	4.2	**7**	38	**7**	40		**8**	81	76	**5**	4.8	**1**	0	100	**1**	0	100
su	Y	3	Cr	Intrigue GFJ	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.7	**7**	38	**7**	38		**8**	92	84	**6**	5.3	**1**	0	100	**1**	0	100
su	Y	1	SnRv	Jet	**Rp**	12	**5**	22	**Rp**	10	**5**	4.2	**6**	34	**6**	35		**9**	100	100	**9**	7.5	**1**	0	100	**1**	0	100
su	Y	4	Rog	Jubilee	**4**	23	**5**	26	**5**	26	**9**	5.9	**7**	38	**8**	45		**9**	100	99	**6**	4.9	**1**	0	86	**3**	5	100
su	Y	4	Sem	Merit	**6**	32	**7**	35	**7**	36	**5**	4.3	**5**	28	**8**	41	Ht	**9**	98	95	**5**	4.5	**9**	88	61	**9**	100	45
su	Y	2	SnRv	Prelude			**6**	29					**8**	39				**9**	100	100								
su	Y	2	SnRv	Rocket	**5**	25	**7**	33	**5**	29	**4**	3.7	**9**	45	**8**	42		**9**	97	94	**9**	8	**1**	0	100	**1**	0	100
su	Y	4	Cr	Tamarack	**Rp**	0	**Rp**	0	**Rp**	0	**2**	2.3	**7**	36	**7**	39		**2**	3	3	**6**	5	**1**	0	96	**3**	3	100
su	Y	3	HM	Turbo	**Rp**	12	**3**	13	**Rp**	12	**5**	4	**5**	23	**4**	25	Ht	**6**	63	3	**5**	4	**1**	0	100	**1**	0	100
su	Y	4	SnRv	UY 2409 OQ	**Rp**	10	**5**	21	**Rp**	6	**2**	2.2	**6**	32	**6**	36		**2**	2	2	**4**	3.8	**1**	0	100	**1**	0	100
su	Y	4	SnRv	UY 2443 OQ	**Rp**	17	**5**	26	**Rp**	10	**4**	3.7	**5**	26	**5**	30		**9**	100	100	**6**	5	**1**	0	86	**3**	5	100
su	Y	4	SnRv	UY 2587 OQ	**5**	28	**6**	30	**4**	22	**6**	4.5	**5**	28	**5**	31		**1**	0	0	**8**	6.3	**9**	85	62	**9**	75	63
su	Y	4	SnRv	UY 2611 OQ	**Rp**	7	**3**	15	**Rp**	5	**4**	3.7	**7**	35	**6**	33		**1**	0	0	**5**	4.8	**1**	0	90	**1**	0	100
su	Y	3	SnRv	UY 2673 OQ	**5**	29	**5**	25	**6**	32	**4**	3.7	**8**	40	**8**	44		**8**	94	91	**6**	5.3	**1**	0	91	**1**	0	100
su	Y	3	SnRv	UY 2680 OQ	**5**	26	**5**	23	**6**	33	**4**	3.7	**7**	37	**7**	38		**8**	94	89	**7**	5.8	**1**	0	86	**1**	0	100
su	W	5	Rog	WH 2801	**Rp**	27	**7**	33	**Rp**	22	**3**	2.8	**6**	31	**6**	34		**9**	98	93	**5**	4.5	**1**	0	100	**1**	0	100
Sugary enhanced hybrids																												
se	B	4	MM	Accord	**5**	27	**5**	25	**5**	26	**3**	3.2	**3**	17	**3**	21		**9**	100	97	**3**	3.3	**1**	0	100	**1**	0	100
se	B	3	Cr	Ambrosia	**5**	28	**5**	24	**5**	27	**3**	3.2	**5**	29	**5**	31		**9**	100	97	**5**	4.8	**1**	0	93	**1**	0	100
se	W	4	Cr	Argent	**4**	24	**5**	21	**5**	26	**2**	2.4	**2**	13	**4**	24		**8**	87	87	**5**	4.3	**3**	1	98	**3**	1	100
se	W	4	MM	Augusta	**5**	27	**5**	23	**5**	31	**4**	3.8	**3**	19	**5**	29		**8**	84	80	**6**	5.3	**1**	0	100	**1**	0	100
se	Y	3	Cr	Bodacious	**4**	21	**4**	19	**4**	21	**4**	3.7	**5**	27	**5**	29		**9**	100	99	**6**	5.3	**1**	0	100	**1**	0	100
se	Y	3	Cr	Bodacious RM	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**6**	32	**5**	30		**4**	30	16	**5**	4.8	**1**	0	100	**1**	0	100
se	B	2	MM	Bon Apetit TSW	**5**	28	**5**	26	**7**	38	**5**	4.3	**5**	26	**5**	29		**9**	100	100	**5**	4.5	**1**	0	100	**1**	0	100
se	B	2	MM	Bon Jour TSW	**7**	38	**6**	28	**9**	45	**7**	5	**6**	31	**7**	39		**9**	100	100	**6**	5.3	**1**	0	100	**1**	0	100
se	Y	3	MM	Breeders Choice	**7**	35	**7**	35	**6**	35	**3**	3.2	**3**	15	**4**	26		**9**	100	97	**5**	4.8	**1**	0	99	**1**	0	100
se	B	4	MM	Brocade TSW	**5**	29	**5**	25	**5**	25	**4**	3.5	**4**	20	**3**	19		**9**	100	100	**4**	3.5	**1**	0	100	**1**	0	100
sesyn	W	4	Cr	Captivate	**3**	17	**3**	15	**4**	21	**2**	2.7	**5**	25	**5**	29		**8**	92	84	**3**	3.3	**1**	0	100	**1**	0	100
se	W	2	MM	Chantilly TSW	**6**	32	**6**	31	**7**	38	**5**	4.3	**5**	24	**6**	33		**8**	94	90	**5**	4.3	**1**	0	100	**1**	0	100
se	W	4	MM	Cloud Nine TSW	**6**	30	**5**	23	**5**	31	**2**	2.7	**3**	18	**4**	24		**9**	100	95	**5**	4	**1**	0	97	**1**	0	100
se+	B	3	MM	Cohasset	**9**	46	**8**	39	**8**	40	**7**	5	**5**	28	**6**	33		**8**	93	97	**5**	4.3	**1**	0	100	**1**	0	100
se	Y	3	MM	Colorow TSW	**5**	28	**6**	29	**6**	32	**5**	4	**5**	25	**4**	26		**9**	100	100	**4**	3.5	**5**	15	60	**7**	43	88
sesyn	B	2	Cr	CSYBF7-256	**Rp**	5	**Rp**	0	**7**	37	**6**	4.8	**4**	20	**5**	28		**8**	91	91	**3**	2.8	**1**	0	100	**1**	0	100
sesyn	B	2	Cr	CSYBF7-257	**Rp**	7	**Rp**	0	**7**	37	**7**	5.2	**5**	23	**5**	31		**9**	98	98	**3**	3	**1**	0	100	**1**	0	100
sesyn	B	3	Cr	CSYBF7-258	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.7	**5**	26	**5**	29		**9**	100	95	**7**	5.5	**1**	0	100	**1**	0	100
sesyn	B	2	Cr	CSYBF7-263	**3**	20	**4**	17	**5**	30	**7**	5.2	**5**	30	**6**	35		**8**	88	91	**3**	3	**1**	0	100	**1**	0	100
sesyn	W	4	Cr	CSYWF7-260	**Rp**	4	**Rp**	0	**5**	31	**5**	4	**5**	25	**5**	28		**9**	97	95	**5**	4.3	**1**	0	100	**1**	0	100
se	B	4	Cr	Delectable	**2**	15	**4**	17	**3**	17	**3**	3.2	**4**	20	**5**	29		**9**	100	100	**3**	3.3	**1**	0	100	**1**	0	100
se	W	5	MM	Denali	**4**	23	**5**	22	**5**	29	**2**	2.7	**5**	23	**5**	29		**9**	100	95	**4**	3.8	**1**	0	98	**1**	0	100
se	W	4	MM	Edleweiss	**6**	32	**5**	27	**7**	36	**4**	3.7	**5**	24	**4**	22		**9**	100	100	**7**	5.5	**1**	0	100	**1**	0	100
se	B	2	MM	Envoy	**9**	50	**9**	43	**9**	50	**6**	4.8	**7**	37	**7**	37		**9**	100	100	**5**	4.8	**1**	0	100	**1**	0	100
se	B	1	MM	Fastlane	**9**	44	**8**	42	**9**	58	**7**	5.2	**7**	37	**8**	44		**9**	100	97	**5**	4.5	**1**	0	100	**1**	0	100
se	Y	1	MM	Head Start	**8**	40	**8**	41	**9**	46	**5**	4.2	**5**	28	**6**	34		**9**	100	100	**4**	3.8	**1**	0	100	**1**	0	100

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
se	Y	4	Cr	Incredible	**2**	12	**3**	14	**2**	12	**3**	3.2	**7**	35	**5**	32		**9**	95	95	**6**	5	**1**	0	100	**1**	0	98
se+	W	2	MM	KoKopelli	**6**	33	**7**	33	**6**	34	**6**	4.7	**4**	22	**5**	29		**8**	92	92	**5**	4.8	**3**	3	92	**1**	0	100
se	B	5	MM	Lancelot	**2**	14	**3**	13	**3**	16	**2**	2.7	**5**	23	**3**	20		**9**	100	100	**3**	3.3	**1**	0	100	**1**	0	100
se	B	3	MM	Luscious TSW	**6**	30	**5**	25	**6**	35	**5**	4.2	**5**	26	**5**	27		**9**	100	100	**5**	4.5	**1**	0	100	**1**	0	100
se+	B	5	MM	Manitou	**7**	35	**7**	33	**6**	32	**4**	3.8	**5**	25	**5**	27		**8**	94	88	**5**	4	**1**	0	100	**1**	0	100
se+	W	5	MM	Mattapoisett	**7**	34	**7**	33	**6**	34	**4**	3.8	**5**	30	**5**	31		**9**	98	98	**4**	3.5	**1**	0	100	**1**	0	100
se	Y	5	MM	Merlin	**2**	14	**3**	16	**2**	14	**2**	2.7	**5**	26	**4**	26		**9**	97	97	**2**	2.3	**1**	0	100	**1**	0	100
se	Y	4	Cr	Miracle	**2**	13	**3**	12	**3**	16	**3**	2.8	**4**	20	**4**	23		**9**	100	96	**5**	4	**1**	0	100	**1**	0	100
se+	W	4	MM	Misquamicut	**6**	30	**6**	30	**7**	36	**5**	4.3	**6**	32	**5**	31		**9**	100	100	**3**	3.3	**1**	0	100	**1**	0	100
se+	B	3	MM	Monomoy	**7**	38	**5**	27	**7**	37	**5**	4	**3**	18	**5**	27		**8**	94	86	**4**	3.5	**1**	0	100	**1**	0	100
se+	B	5	MM	Montauk	**6**	32	**6**	31	**6**	34	**4**	3.8	**7**	35	**5**	29		**9**	97	89	**5**	4.8	**1**	0	100	**1**	0	100
se+	B	2	MM	Nantasket	**7**	36	**6**	29	**7**	36	**5**	4	**5**	24	**5**	30		**9**	100	92	**5**	4.3	**1**	0	100	**1**	0	100
se	B	1	MM	Native Gem	**9**	46	**9**	44	**9**	53	**5**	4.3	**3**	19	**4**	26		**9**	100	100	**5**	4.3	**1**	0	100	**1**	0	100
se	B	3	MM	Ovation	**3**	19	**5**	25	**5**	28	**6**	4.5	**5**	28	**5**	27		**8**	93	97	**3**	2.8	**1**	0	100	**1**	0	100
se+	B	3	MM	Powwow	**7**	34	**6**	28	**7**	37	**6**	4.5	**5**	24	**5**	27		**9**	100	98	**6**	5.3	**5**	20	95	**3**	5	100
se	B	4	MM	Precious Gem	**4**	21	**4**	17	**3**	19	**3**	3.3	**4**	20	**3**	18		**9**	100	100	**4**	3.5	**3**	3	100	**1**	0	100
se+	B	2	MM	Rendevous	**8**	39	**7**	33	**8**	43	**8**	5.7	**7**	36	**7**	39		**9**	97	86	**3**	3	**1**	0	100	**1**	0	100
se+	B	4	MM	Saugatuck	**6**	32	**6**	31	**8**	43	**5**	4.2	**5**	25	**4**	25		**9**	97	94	**4**	3.8	**1**	0	100	**1**	0	100
se	B	3	Sem	SEM 28	**Rp**	3	**Rp**	0	**5**	27	**5**	4.3	**4**	22	**4**	22	Ht	**9**	95	95	**5**	4.3	**1**	0	97	**1**	0	100
se	Y	2	Sem	SEM 38	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.7	**6**	31	**5**	32		**2**	1	1	**6**	5.3	**1**	0	100	**1**	0	100
se	Y	2	Sem	SEM 39	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.7	**6**	32	**6**	33		**2**	3	6	**6**	4.9	**1**	0	100	**1**	0	100
se	W	3	Sem	SEM 43	**Rp**	12	**4**	18	**Rp**	13	**4**	3.8	**4**	21	**3**	18	Ht	**9**	97	93	**5**	4.1	**1**	0	100	**1**	0	100
se	B	3	Sem	SEM 108	**Rp**	1	**Rp**	0	**3**	17	**3**	3.3	**4**	20	**2**	14	Ht	**9**	95	95	**2**	2.5	**1**	0	100	**1**	0	100
se	B	3	Sem	SEM 143	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**2**	13	**2**	15	Ht	**8**	87	92	**3**	3.3	**1**	0	100	**1**	0	100
se	B	3	Sem	SEM 144	**Rp**	2	**Rp**	0	**Rp**	0	**5**	4.3	**4**	20	**3**	18	Ht	**9**	95	92	**3**	2.8	**1**	0	100	**1**	0	100
se	B	3	Sem	SEM 151	**6**	31	**5**	25	**6**	32	**6**	4.5	**5**	24	**3**	19	Ht	**8**	94	94	**8**	6	**1**	0	94	**1**	0	100
se	B	3	Sem	SEM 152	**Rp**	3	**Rp**	0	**5**	26	**4**	3.8	**5**	26	**3**	21	Ht	**9**	97	95	**1**	1.5	**1**	0	100	**1**	0	100
se	W	3	Sem	SEM 153	**5**	28	**5**	24	**7**	37	**5**	4.2	**5**	27	**5**	28		**9**	97	94	**8**	6	**1**	0	94	**1**	0	100
se	W	3	Sem	SEM 154	**5**	26	**5**	25	**5**	31	**3**	3.3	**3**	18	**3**	20		**9**	100	100	**7**	5.8	**1**	0	100	**1**	0	100
se	B	4	Sem	Sensor	**4**	23	**4**	18	**3**	17	**6**	4.5	**5**	23	**5**	28		**8**	87	92	**5**	4.3	**1**	0	100	**1**	0	100
se	W	4	MM	Shasta	**5**	27	**5**	24	**5**	31	**4**	3.8	**5**	26	**5**	27		**9**	97	97	**5**	4.3	**1**	0	100	**1**	0	100
se	Y	2	MM	Spring Treat	**6**	33	**6**	31	**8**	41	**7**	5	**3**	18	**4**	25		**9**	95	100	**5**	4	**1**	0	100	**1**	0	100
se	Y	2	Cr	Sugar Buns	**8**	39	**6**	31	**8**	42	**3**	3.3	**2**	13	**5**	27		**9**	100	100	**6**	5	**1**	0	100	**1**	0	100
se	W	2	MM	Sugar Pearl TSW	**6**	33	**6**	29	**7**	39	**7**	5.2	**5**	26	**5**	32		**9**	100	100	**5**	4.5	**1**	0	100	**1**	0	100
se	Y	5	MM	Sumptuous	**2**	11	**3**	13	**3**	15	**1**	1.7	**5**	23	**5**	27		**9**	100	100	**2**	2.3	**3**	5	82	**1**	0	97
sesy	B	3	Sem	Synergy R	**2**	14	**2**	10	**2**	14	**4**	3.8	**3**	17	**2**	15	Ht	**9**	98	90	**5**	4.1	**1**	0	100	**1**	0	100
se	B	1	Sem	Temptation	**9**	48	**7**	34	**8**	43	**6**	4.7	**6**	32	**6**	34		**9**	97	89	**8**	6.8	**1**	0	99	**1**	0	100
se	Y	4	MM	Tuxedo	**3**	19	**4**	17	**5**	24	**6**	4.5	**3**	16	**3**	19		**9**	100	100	**3**	2.8	**1**	0	100	**1**	0	100
se+	B	2	MM	Venue	**6**	30	**6**	28	**7**	36	**7**	5	**5**	26	**4**	26		**9**	100	98	**5**	4.5	**5**	23	78	**1**	0	100
se	W	2	MM	White Out	**9**	44	**7**	36	**7**	39	**6**	4.7	**6**	33	**5**	30		**9**	100	97	**6**	5	**1**	0	100	**1**	0	100
Shrunken-2 hybrids																												
sh2	Y	3	IFS	177A	**5**	25	**5**	24	**5**	28	**3**	2.9	**5**	27	**6**	36		**9**	99	96	**5**	4.5	**9**	91	49	**9**	68	57
sh2	Y	3	IFS	179A	**5**	25	**5**	21	**5**	26	**2**	2.7	**5**	26	**6**	34		**9**	97	89	**6**	5.1	**1**	0	88	**1**	0	100
sh2	B	2	IFS	273A	**5**	29	**5**	25	**6**	33	**5**	4.3	**8**	40	**8**	45		**9**	97	81	**7**	5.8	**1**	0	86	**3**	0	85
sh2	B	3	IFS	277A	**6**	31	**6**	28	**6**	35	**4**	3.7	**5**	27	**6**	36		**9**	97	92	**4**	3.5	**3**	3	86	**1**	0	93

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	3	IFS	1179	**6**	30	**5**	23	**5**	25	**5**	4.1	**6**	33	**6**	34		**9**	99	97	**5**	4	**3**	5	72	**3**	3	100
sh2	Y	1	IFS	1273	**7**	38	**7**	32	**7**	39	**7**	5	**5**	28	**7**	37		**9**	99	92	**6**	5.1	**1**	0	100	**1**	0	100
sh2	B	2	IFS	2170	**6**	31	**6**	28	**7**	39	**6**	4.5	**7**	37	**7**	40		**9**	100	95	**8**	6.8	**1**	0	99	**1**	0	100
sh2	B	3	IFS	2574	**5**	25	**4**	20	**5**	31	**5**	4.2	**5**	28	**7**	37		**8**	94	91	**5**	4.8	**3**	3	85	**1**	0	97
sh2	W	3	IFS	3175	**5**	27	**6**	30	**6**	34	**6**	4.4	**6**	34	**6**	36		**8**	94	92	**4**	3.8	**9**	86	38	**9**	60	52
sh2	W	3	IFS	3474	**6**	31	**5**	26	**6**	35	**5**	4.3	**7**	35	**6**	33		**2**	15	0	**5**	4.5	**1**	0	86	**3**	0	84
sh2	W	4	Sem	0870 5770	**Rp**	14	**6**	30	**Rp**	12	**5**	4.2	**5**	26	**5**	29		**4**	21	0	**6**	5	**9**	53	54	**9**	68	46
sh2	B	3	Sem	0870 5788	**Rp**	24	**7**	33	**Rp**	12	**5**	4	**5**	30	**6**	34		**4**	24	0	**5**	4.5	**1**	0	99	**1**	0	100
sh2	B	3	Sem	0876 7143	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4	**3**	19	**3**	19	Ht	**9**	100	100	**4**	3.5	**1**	0	97	**3**	0	87
sh2+	Y	3	AC	ACCession	**5**	27	**7**	35	**5**	31	**5**	4	**7**	36	**5**	30	Ht	**8**	84	72	**5**	4.5	**1**	0	100	**1**	0	100
sh2	B	5	AC	ACR 2055 MRBC	**Rp**	6	**Rp**	0	**6**	34	**6**	4.7	**6**	31	**4**	25	Ht	**9**	100	97	**8**	6.8	**1**	0	100	**1**	0	100
sh2+	Y	2	AC	ACX SS 7403 RY	**Rp**	3	**Rp**	0	**5**	29	**5**	4.2	**7**	35	**6**	36	Ht	**9**	100	97	**5**	4.8	**1**	0	100	**3**	3	100
sh2+	Y	3	AC	ACX SS 7501 Y	**5**	25	**5**	26	**5**	29	**4**	3.5	**5**	30	**5**	32		**8**	94	97	**6**	5.3	**1**	0	93	**1**	0	100
sh2+	B	3	AC	ACX VAR MS 502 BC	**6**	32	**6**	28	**6**	33	**5**	4.2	**7**	38	**8**	43		**8**	91	85	**3**	3.3	**1**	0	89	**1**	0	93
sh2+	Y	3	AC	ACX VAR MS 513Y	**5**	25	**6**	30	**5**	29	**5**	4	**6**	34	**6**	36		**8**	94	94	**6**	5.3	**3**	5	89	**1**	0	100
sh2+	Y	3	AC	ACX VAR MS 820 Y	**4**	21	**5**	24	**5**	26	**4**	3.8	**6**	34	**7**	37		**8**	93	84	**5**	4.8	**3**	1	92	**1**	0	100
sh2+	Y	3	AC	ACX VAR MS 900 Y	**5**	26	**5**	22	**5**	27	**5**	3.9	**6**	32	**6**	34		**8**	92	94	**3**	3.4	**3**	1	87	**1**	0	100
sh2	W	3	AC	ACX VAR # 7401 MG	**5**	28	**6**	28	**5**	27	**4**	3.7	**5**	26	**6**	33		**5**	58	29	**5**	4	**1**	0	.	**1**	0	.
sh2	Y	4	AC	ACX VAR # 7650 R	**Rp**	14	**6**	29	**Rp**	10	**4**	3.7	**2**	12	**1**	11	Ht	**9**	100	96	**2**	2.5	**1**	0	85	**1**	0	91
sh2	W	4	AC	ACX VAR # 7701 MG	**4**	24	**5**	27	**5**	27	**3**	3	**5**	26	**5**	28		**1**	3	0	**5**	4.3	**3**	10	82	**3**	0	85
sh2	B	3	AC	ACX VAR # 7802 RBC	**6**	32	**5**	26	**6**	35	**5**	4.2	**5**	27	**6**	33	Ht	**9**	95	92	**7**	5.8	**1**	0	100	**1**	0	100
sh2	W	4	AC	ACX VAR # 7811 MR	**Rp**	4	**Rp**	0	**6**	32	**5**	4.2	**4**	22	**5**	29	Ht	**9**	95	87	**7**	5.5	**1**	0	100	**1**	0	92
sh2	Y	4	AC	ACX VAR # 7900 R	**Rp**	14	**5**	27	**Rp**	9	**3**	3.3	**4**	22	**5**	30	Ht	**9**	95	93	**7**	5.8	**1**	0	99	**1**	0	96
sh2+	Y	4	AC	ACX VAR # 7920 MR	**Rp**	5	**Rp**	0	**5**	29	**7**	5.3	**2**	14	**4**	22	Ht	**8**	91	85	**3**	3	**5**	13	95	**1**	0	100
sh2	B	5	AC	ACX VAR # 7922 MRG	**Rp***	6	**Rp***	0	**5**	31	**5**	4.3	**5**	29	**5**	27	Ht	**8**	92	92	**5**	4.5	**1**	0	100	**1**	0	100
sh2	B	4	AC	ACX VAR # 7932 MRG	**Rp**	13	**Rp**	0	**8**	43	**4**	3.8	**5**	27	**5**	31	Ht	**9**	97	51	**8**	6	**1**	0	100	**1**	0	100
sh2	B	3	Sdw	Awesome	**4**	23	**4**	20	**5**	28	**4**	3.7	**5**	23	**6**	36		**9**	100	97	**7**	5.5	**3**	5	100	**1**	0	100
sh2	W	3	HM	Bandero	**6**	31	**7**	32	**5**	28	**3**	3.2	**7**	35	**8**	44		**4**	34	0	**4**	3.5	**1**	0	84	**1**	0	97
sh2	B	3	SnRv	Bonfire	**Rp**	30	**7**	34	**Rp**	21	**8**	5.5	**7**	35	**7**	40		**9**	100	94	**3**	3.3	**1**	0	99	**1**	0	98
sh2	W	3	Sak	Broad Peak	**5**	25	**7**	32	**5**	28	**7**	5	**8**	39	**8**	42		**9**	100	100	**6**	5	**1**	0	93	**1**	0	91
sh2	B	3	HM	BS 10984 R	**7**	35	**7**	36	**7**	36	**5**	4	**2**	11	**3**	18	Ht	**9**	100	100	**4**	3.8	**1**	0	96	**1**	0	98
sh2	B	3	Rog	BSS 0982	**Rp**	17	**6**	28	**Rp**	12	**6**	4.7	**7**	35	**8**	41		**2**	6	0	**5**	4	**1**	0	98	**1**	0	99
sh2	B	3	Rog	BSS 8040	**Rp**	9	**5**	23	**Rp**	9	**2**	2.2	**4**	20	**5**	30		**9**	100	82	**3**	2.8	**1**	0	85	**1**	0	94
sh2+	B	4	Cr	Bueno	**Rp**	5	**Rp**	0	**4**	21	**4**	3.7	**5**	26	**4**	24		**9**	100	100	**6**	5	**1**	0	100	**1**	0	100
sh2+	Y	4	Cr	Bueno yellow	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**5**	24	**4**	23		**9**	97	100	**5**	4	**1**	0	92	**1**	0	93
sh2+	W	4	Cr	CAAWF9-381	**4**	22	**5**	23	**5**	28	**4**	3.8	**3**	18	**4**	25		**9**	98	86	**3**	3.3	**3**	0	80	**1**	0	97
sh2	Y	4	Rog	Code 1002	**Rp**	17	**6**	28	**Rp**	14	**2**	2.5	**4**	22	**4**	24	Ht	**2**	15	0	**6**	5	**1**	0	92	**1**	0	100
sh2	Y	3	Rog	Code 1003	**Rp**	2	**Rp**	0	**5**	27	**5**	4.2	**5**	30	**4**	24	Ht	**9**	100	100	**8**	6	**1**	0	85	**1**	0	100
sh2	Y	4	Rog	Code 1004	**Rp**	7	**5**	25	**Rp**	7	**2**	2.3	**3**	16	**4**	26		**2**	3	3	**5**	4	**1**	0	98	**1**	0	94
sh2	Y	4	Rog	Code 1005	**Rp**	4	**Rp**	0	**3**	15	**6**	4.8	**1**	8	**3**	17		**4**	21	0	**3**	3	**1**	0	97	**1**	0	96
sh2	Y	3	Rog	Code 1011	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.3	**3**	17	**2**	15	Ht	**2**	4	8	**3**	3	**1**	0	94	**1**	0	99
sh2	Y	3	Rog	Code 1013	**Rp**	14	**4**	19	**Rp**	6	**2**	2.2	**3**	16	**3**	17	Ht	**8**	85	74	**8**	6	**1**	0	100	**1**	0	100
sh2	B	3	Rog	Code 1014	**Rp**	6	**5**	26	**Rp**	8	**6**	4.7	**5**	26	**6**	35		**8**	94	91	**5**	4.8	**1**	0	89	**1**	0	91
sh2	Y	2	Rog	Code 1019	**1**	9	**5**	21	**3**	17	**6**	4.5	**5**	25	**4**	24	Ht	**8**	93	50	**5**	4	**1**	0	100	**1**	0	100
sh2	Y	3	Rog	Code 1020	**5**	25	**5**	27	**5**	28	**4**	3.5	**4**	22	**5**	30		**9**	100	100	**2**	2.5	**1**	0	100	**1**	0	100

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	3	Rog	Code 1021	**Rp**	14	**5**	27	**Rp**	11	**2**	2.3	**3**	16	**4**	22	Ht	**9**	100	88	**5**	4.8	**1**	0	100	**1**	0	100
sh2	Y	2	Rog	Code 1022	**Rp**	4	**Rp**	0	**5**	31	**9**	6	**9**	52	**8**	44		**8**	83	76	**5**	4.5	**1**	0	100	**1**	0	100
sh2	B	3	Rog	Code 1023	**Rp**	9	**4**	19	**Rp**	6	**5**	4	**5**	25	**3**	21	Ht	**9**	95	70	**5**	4	**1**	0	90	**1**	0	97
sh2	Y	3	Rog	Code 1026	**Rp**	4	**Rp**	0	**5**	30	**4**	3.8	**4**	22	**5**	28	Ht	**9**	100	83	**5**	4.3	**1**	0	100	**1**	0	100
sh2	Y	3	Rog	Code 1027	**Rp**	1	**Rp**	0	**4**	22	**3**	2.8	**4**	21	**3**	21	Ht	**9**	100	97	**8**	6.5	**1**	0	100	**1**	0	100
sh2	Y	4	Rog	Code 1028	**3**	17	**4**	19	**3**	19	**6**	4.5	**3**	17	**3**	19	Ht	**4**	25	9	**5**	4.8	**1**	0	100	**1**	0	98
sh2	Y	4	Rog	Code 1029	**5**	28	**6**	30	**5**	30	**6**	4.5	**6**	34	**6**	36		**8**	91	23	**5**	4.5	**1**	0	88	**1**	0	94
sh2	Y	4	Rog	Code 1030	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4	**5**	24	**5**	27	Ht	**8**	90	94	**8**	6.3	**1**	0	95	**1**	0	99
sh2	Y	5	Rog	Code 1031	**Rp**	9	**5**	22	**Rp**	5	**5**	4	**5**	26	**3**	20	Ht	**7**	76	52	**6**	5	**3**	3	78	**1**	0	93
sh2	B	5	Rog	Code 1032	**Rp**	12	**Rp**	0	**6**	35	**5**	4.2	**5**	28	**5**	28		**7**	89	21	**4**	3.5	**1**	0	100	**1**	0	97
sh2	Y	2	Rog	Code 1033	**5**	25	**5**	27	**5**	29	**9**	6	**9**	44	**7**	40	Ht	**9**	95	90	**6**	5	**1**	0	100	**1**	0	100
sh2	Y	2	Rog	Code 1034	**4**	22	**5**	27	**6**	34	**6**	4.5	**5**	30	**5**	28	Ht	**9**	100	94	**8**	6.3	**1**	0	90	**1**	0	92
sh2	B	4	Rog	Code 1036	**Rp**	17	**6**	28	**Rp**	12	**4**	3.8	**2**	11	**5**	27		**9**	100	97	**2**	2	**1**	0	100	**1**	0	100
sh2	W	3	Rog	Code 1037	**Rp**	6	**5**	24	**Rp**	8	**5**	4.3	**5**	23	**4**	25	Ht	**9**	100	72	**3**	2.8	**1**	0	91	**1**	0	95
sh2	B	3	Rog	Code 1039	**Rp**	5	**4**	18	**Rp**	6	**5**	4.2	**5**	26	**5**	30	Ht	**8**	94	94	**5**	4	**1**	0	89	**3**	5	83
sh2	B	4	SnRv	Crossfire	**Rp**	26	**6**	31	**Rp**	20	**6**	4.8	**6**	31	**8**	41		**9**	97	91	**5**	4.8	**1**	0	100	**1**	0	100
sh2+	Y	4	Cr	CSAF9-343	**4**	24	**5**	24	**4**	22	**5**	4	**5**	27	**5**	27		**9**	100	93	**5**	4.5	**1**	0	83	**1**	0	100
sh2	Y	4	DM	DMC 21-84	**Rp**	10	**5**	25	**Rp**	9	**4**	3.5	**6**	31	**5**	31	Ht	**7**	79	21	**6**	5.3	**1**	0	100	**1**	0	100
sh2	Y	2	DM	DMX 21-06	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**7**	37	**7**	38	Ht	**1**	0	0	**5**	4.5	**1**	0	100	**1**	0	100
sh2	Y	3	DM	DMX 21-88	**Rp**	4	**4**	18	**Rp**	4	**4**	3.5	**5**	27	**5**	30	Ht	**1**	5	0	**5**	4.8	**1**	0	100	**1**	0	100
sh2	W	3	SnRv	Everest									**8**	41	**8**	42		**9**	100	100	**5**	4						
sh2	Y	4	Cr	Fortitude	**Rp**	19	**5**	23	**Rp**	9	**6**	4.5	**5**	23	**2**	16	Ht	**9**	97	95	**5**	4.3	**1**	0	97	**1**	0	99
sh2	B	4	Cr	Fortitude BC	**Rp**	14	**6**	28	**Rp**	13	**7**	5.2	**1**	6	**2**	14	Ht	**9**	97	89	**7**	5.5	**3**	3	95	**1**	0	100
sh2	Y	4	SnRv	Galaxy	**Rp**	18	**6**	30	**Rp**	12	**6**	4.5	**7**	36	**4**	24	Ht	**9**	95	97	**5**	4.5	**1**	0	92	**1**	0	93
sh2	Y	3	Rog	Garrison	**Rp**	0	**Rp**	0	**Rp**	0	**2**	2.7	**3**	16	**1**	11	Ht	**2**	3	3	**6**	5.1	**1**	0	94	**1**	0	98
sh2	Y	4	GG	Green Giant Code 202	**Rp**	3	**Rp**	0	**2**	13	**5**	4	**3**	18	**4**	22		**7**	77	29	**4**	3.5	**1**	0	87	**1**	0	92
sh2	B	4	GG	Green Giant Code 214	**Rp**	8	**5**	22	**Rp**	5	**4**	3.5	**5**	30	**5**	29		**8**	92	68	**5**	4.8	**1**	0	94	**1**	0	95
sh2	Y	4	GG	Green Giant Code 215	**Rp**	2	**Rp**	0	**2**	12	**5**	4.3	**5**	25	**5**	31		**7**	85	46	**3**	2.8	**3**	0	74	**3**	0	81
sh2	Y	4	GG	Green Giant Code 216	**Rp***	5	**Rp***	0	**3**	19	**3**	3.2	**5**	25	**5**	29		**9**	97	88	**5**	4.5	**1**	0	94	**3**	0	84
sh2	Y	2	GG	Green Giant Code 221	**Rp**	0	**Rp***	0	**Rp**	0	**6**	4.8	**5**	26	**5**	28		**9**	100	86	**6**	5	**1**	0	100	**1**	0	100
sh2	Y	2	GG	Green Giant Code 222	**Rp***	2	**Rp***	0	**3**	17	**4**	3.5	**5**	23	**4**	25	Ht	**8**	94	89	**6**	5	**1**	0	89	**1**	0	95
sh2	W	4	GG	Green Giant Code 227	**Rp**	2	**Rp**	0	**2**	12	**6**	4.7	**4**	20	**5**	29		**7**	87	42	**2**	2.5	**1**	0	88	**1**	0	99
sh2	W	5	GG	Green Giant Code 228	**Rp**	8	**4**	20	**Rp**	8	**5**	4	**4**	20	**6**	34		**8**	87	77	**3**	2.8	**1**	0	91	**1**	0	100
sh2	Y	2	GG	Green Giant Code 229	**Rp**	9	**5**	24	**Rp**	5	**4**	3.5	**4**	22	**5**	29		**9**	97	86	**3**	3	**1**	0	100	**1**	0	100
sh2	Y	4	GG	Green Giant Code 230	**Rp**	6	**Rp**	0	**3**	19	**4**	3.5	**6**	31	**6**	35		**8**	94	67	**5**	4.5	**3**	3	74	**1**	0	91
sh2	B	4	GG	Green Giant Code 231	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.3	**5**	23	**4**	25		**9**	100	63	**4**	3.5	**1**	0	90	**1**	0	98
sh2	B	3	GG	Green Giant Code 235	**Rp**	5	**4**	17	**Rp**	4	**4**	3.8	**4**	22	**5**	31		**7**	88	50	**4**	3.5	**1**	0	100	**1**	0	97
sh2	B	2	GG	Green Giant Code 236	**Rp**	7	**5**	21	**Rp**	7	**5**	4.2	**4**	22	**4**	23	Ht	**9**	100	74	**5**	4.8	**1**	0	94	**1**	0	100
sh2	B	4	GG	Green Giant Code 237	**Rp**	4	**Rp**	0	**2**	12	**5**	4.3	**5**	25	**6**	33		**6**	63	29	**2**	2.5	**1**	0	91	**1**	0	93
sh2	Y	3	Rog	GSS 1477	**Rp**	13	**5**	23	**Rp**	11	**4**	3.7	**3**	19	**3**	19	Ht	**2**	3	5	**4**	3.5	**1**	0	99	**1**	0	100
sh2	Y	4	Rog	GSS 2181	**Rp**	23	**5**	25	**Rp**	9	**4**	3.8	**3**	19	**3**	17	Ht	**3**	11	3	**5**	4.3	**1**	0	92	**1**	0	96
sh2	Y	4	Rog	GSS 2259 P	**Rp**	4	**Rp**	0	**4**	20	**2**	2.3	**7**	35	**4**	22	Ht	**2**	3	9	**8**	6	**3**	3	89	**1**	0	100
sh2	Y	3	Rog	GSS 5649	**Rp**	14	**6**	29	**Rp**	14	**5**	4.3	**5**	27	**4**	24	Ht	**1**	3	0	**5**	4.3	**1**	0	95	**1**	0	100
sh2	Y	4	Rog	GSS 5729	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.5	**5**	27	**5**	32		**7**	86	21	**5**	4.8	**1**	0	87	**1**	0	91
sh2	Y	4	Rog	GSS 5763	**5**	28	**7**	33	**5**	28	**3**	3.3	**5**	29	**7**	39		**2**	5	3	**6**	5.3	**9**	98	64	**9**	73	54

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	4	Rog	GSS 7568	**Rp**	13	**7**	32	**Rp**	2	**5**	4.3	**7**	36	**7**	39		**2**	3	9	**7**	5.5	**1**	0	98	**1**	0	99
sh2	Y	5	Rog	GSS 8369	**Rp**	5	**Rp**	0	**4**	23	**4**	3.5	**5**	25	**3**	20	Ht	**9**	97	93	**4**	3.5	**3**	3	100	**3**	3	100
sh2	B	4	SnRv	HB 1635 OP	**Rp**	33	**7**	33	**Rp**	26	**8**	5.5	**6**	32	**8**	41		**9**	100	93	**6**	5.3	**1**	0	92	**1**	0	96
sh2	B	4	SnRv	HB 2340 OQ	**Rp**	23	**6**	29	**Rp**	10	**8**	5.7	**8**	40	**8**	41		**9**	97	90	**4**	3.8	**1**	0	100	**1**	0	100
sh2	B	4	SnRv	HB 2642 OM	**Rp**	28	**6**	30	**Rp**	15	**8**	5.5	**7**	36	**7**	37		**8**	92	92	**3**	3	**1**	0	100	**1**	0	.
sh2	B	5	SnRv	HB 4828 LN	**Rp**	10	**5**	24	**Rp**	10	**6**	4.8	**5**	27	**6**	35		**9**	97	81	**5**	4	**1**	0	89	**3**	0	85
sh2	W	4	Rog	Heavenly	**Rp**	11	**6**	29	**Rp**	9	**7**	5.3	**7**	35	**7**	38		**4**	32	0	**5**	4.5	**1**	0	100	**1**	0	100
sh2	B	3	HM	HMX 0359 BS	**5**	29	**6**	28	**6**	35	**5**	4.3	**1**	8	**2**	12	Ht	**9**	100	100	**3**	3	**3**	3	88	**1**	0	100
sh2	B	3	HM	HMX 0365 BS	**6**	31	**6**	31	**5**	27	**4**	3.7	**4**	21	**5**	29		**8**	93	93	**5**	4.5	**3**	0	78	**3**	0	85
sh2	B	2	HM	HMX 0366 BS	**8**	41	**6**	30	**6**	33	**2**	2.5	**6**	31	**7**	37		**9**	96	92	**8**	6.5	**1**	0	89	**1**	0	100
sh2	W	4	HM	HMX 1368 WS	**Rp**	21	**7**	34	**Rp**	9	**3**	3.3	**7**	36	**8**	41		**2**	12	0	**2**	2.3	**1**	0	88	**1**	0	92
sh2	Y	3	HM	HMX 6386 S	**Rp**	6	**Rp**	0	**5**	24	**4**	3.5	**5**	30	**5**	31		**3**	15	15	**5**	4	**9**	93	48	**9**	88	42
sh2su	Y	3	HM	HMX 7368 D	**3**	16	**4**	20	**5**	28	**6**	4.7	**5**	25	**5**	28		**9**	100	82	**5**	4.8	**1**	0	90	**1**	0	96
sh2	Y	4	HM	HMX 7389 S	**Rp***	0	**Rp***	0	**Rp***	0	**4**	3.8	**2**	12	**5**	27		**9**	100	100	**4**	3.5	**1**	0	87	**1**	0	100
sh2	Y	2	HM	HMX 8342 S	**5**	28	**5**	26	**5**	29	**6**	4.5	**5**	28	**5**	30	Ht	**9**	100	95	**4**	3.8	**1**	0	100	**1**	0	100
sh2	B	3	HM	HMX 8343 BS	**6**	30	**5**	26	**5**	30	**4**	3.7	**7**	35	**7**	38	Ht	**9**	100	97	**7**	5.5	**1**	0	87	**1**	0	99
sh2	W	3	HM	HMX 9347 WS	**6**	31	**6**	31	**6**	33	**5**	4	**1**	10	**3**	18		**9**	97	92	**5**	4	**1**	0	84	**3**	0	88
sh2	W	4	HM	HMX 9349 WS	**6**	31	**7**	35	**6**	34	**5**	4.3	**1**	7	**1**	7	Ht	**9**	100	97	**2**	2.3	**1**	0	98	**1**	0	100
sh2	B	3	HM	HMX 9352 BS	**6**	33	**5**	27	**7**	36	**4**	3.7	**2**	11	**5**	28		**9**	97	100	**5**	4	**1**	0	92	**1**	0	100
sh2	B	3	HM	HMX 9353 BS	**7**	35	**7**	33	**8**	43	**6**	4.5	**1**	10	**3**	19		**9**	100	95	**4**	3.8	**1**	0	90	**3**	0	87
sh2	Y	3	HM	HMX 9355 S	**Rp**	4	**Rp**	0	**5**	31	**4**	3.8	**1**	4	**1**	9	Ht	**2**	16	0	**3**	3	**1**	0	90	**1**	0	93
sh2	B	3	HM	HMX 9357 BS	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**9**	47	**6**	36	Ht	**2**	8	0	**3**	3.3	**1**	0	88	**1**	0	94
sh2	Y	2	HM	HMX 9386 S	**Rp**	12	**5**	23	**Rp**	9	**5**	4.3	**5**	24	**6**	34		**4**	22	2	**3**	3.3	**3**	3	91	**1**	0	100
sh2	Y	3	HM	HMX 9388 S	**Rp**	0	**Rp**	0	**Rp**	1	**3**	3.3	**1**	3	**2**	14	Ht	**9**	100	97	**5**	4	**1**	0	84	**1**	0	100
sh2	Y	4	HM	HMX 9389 S	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**1**	3	**1**	9	Ht	**1**	0	0	**3**	3.3	**1**	0	82	**1**	0	93
sh2	Y	4	HM	HMX 9390 S	**Rp***	0	**Rp**	0	**Rp**	0	**5**	4.3	**1**	5	**1**	10	Ht	**2**	11	0	**2**	2.5	**3**	8	72	**3**	8	100
sh2	Y	4	HM	HMX 9391 S	**Rp**	2	**Rp**	0	**Rp***	2	**4**	3.7	**1**	9	**2**	13	Ht	**1**	3	0	**5**	4.5	**1**	0	87	**1**	0	100
sh2	Y	4	HM	HMX 9392 S	**Rp**	3	**Rp***	0	**Rp***	4	**4**	3.7	**2**	12	**2**	16	Ht	**3**	18	10	**4**	3.5	**1**	0	91	**1**	0	100
sh2	Y	4	HM	HMX 9393 S	**Rp**	15	**5**	26	**Rp**	8	**6**	4.7	**1**	10	**3**	18		**4**	25	3	**2**	2.3	**1**	0	92	**1**	0	99
sh2	Y	3	HM	HMX 9394 S	**Rp**	13	**5**	24	**Rp**	9	**4**	3.7	**1**	3	**1**	8	Ht	**1**	5	0	**4**	3.5	**1**	0	90	**1**	0	93
sh2	B	5	Cr	Holiday	**Rp**	20	**5**	26	**Rp**	12	**4**	3.7	**2**	13	**1**	7	Ht	**9**	97	100	**4**	3.5	**3**	3	100	**1**	0	100
sh2	W	5	Cr	How Sweet It Is	**4**	24	**6**	29	**4**	21	**6**	4.5	**6**	32	**6**	33		**8**	87	87	**5**	4.5	**3**	8	78	**1**	0	100
sh2	W	4	SnRv	HW 1622 OP	**Rp**	8	**5**	23	**Rp**	6	**5**	4	**4**	21	**5**	27		**9**	100	100	**2**	2.5	**1**	0	86	**1**	0	98
sh2	Y	4	SnRv	HY 0850 ON	**2**	10	**7**	36			**6**	4.7	**5**	24	**3**	21	Ht	**9**	100	75	**5**	4	**1**	0	.	**1**	0	.
sh2	Y	4	SnRv	HY 0882 OP	**Rp**	24	**7**	33	**Rp**	12	**7**	5.2	**7**	37	**5**	27	Ht	**8**	94	83	**5**	4.3	**3**	3	95	**1**	0	100
sh2	Y	2	SnRv	HY 1027 OP	**4**	21	**4**	19	**3**	17	**5**	4.3	**4**	22	**3**	20	Ht	**9**	97	97	**5**	4	**1**	0	100	**1**	0	96
sh2	Y	1	SnRv	HY 1089 OM	**Rp**	16	**5**	26	**Rp**	12	**7**	5.3	**7**	37	**5**	28	Ht	**9**	96	75	**5**	4	**1**	0	100	**1**	0	98
sh2	Y	4	SnRv	HY 1312 OR	**3**	16	**4**	20	**3**	15	**4**	3.7	**7**	36	**4**	23	Ht	**9**	95	86	**5**	4.3	**1**	0	89	**1**	0	93
sh2	Y	3	SnRv	HY 1656 ON	**Rp**	15			**Rp**	14					**6**	36		**9**	100	100								
sh2	Y	4	SnRv	HY 2027 OQ	**Rp**	25	**7**	34	**Rp**	16	**4**	3.8	**7**	38	**7**	39		**9**	100	93	**8**	6.8	**3**	3	92	**1**	0	100
sh2	Y	4	SnRv	HY 2036 OQ	**Rp**	14	**5**	23	**Rp**	8	**6**	4.7	**5**	29	**6**	33		**7**	79	65	**4**	3.8	**1**	0	100	**1**	0	100
sh2	Y	4	SnRv	HY 2163 OQ	**Rp**	28	**7**	34	**Rp**	18	**9**	6.3	**6**	34	**7**	39		**9**	95	93	**7**	5.5	**1**	0	99	**1**	0	100
sh2	Y	4	SnRv	HY 2235 OQ	**Rp**	32	**8**	37	**Rp**	24	**9**	7	**7**	36	**7**	39		**8**	91	79	**8**	6	**1**	0	94	**1**	0	100
sh2	Y	4	SnRv	HY 2358 OQ	**3**	20	**6**	29	**3**	19	**4**	3.7	**3**	15	**2**	12	Ht	**9**	95	97	**5**	4.8	**1**	0	93	**1**	0	100
sh2	Y	4	SnRv	HY 2786 OR	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**5**	26	**6**	33		**8**	91	88	**6**	5	**3**	0	77	**1**	0	95

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	4	SnRv	HY 2789 OR	**Rp**	23	**6**	30	**Rp**	13	**7**	5	**5**	25	**3**	20	Ht	**3**	10	7	**6**	5.3	**3**	0	66	**3**	8	100
sh2	Y	4	SnRv	HY 2795 OR	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.8	**6**	34	**7**	37	Ht	**9**	100	94	**7**	5.5	**3**	3	68	**3**	3	99
sh2	Y	4	SnRv	HY 2797 OR	**Rp**	28	**6**	31	**Rp**	12	**6**	4.5	**8**	40	**8**	44		**4**	24	0	**6**	5	**3**	0	73	**3**	3	97
sh2	Y	6	Adv	Hybrix 3	**4**	23	**5**	25	**4**	23	**7**	5.2	**7**	35	**6**	36		**7**	86	46	**2**	2.3	**3**	3	74	**3**	0	87
sh2	Y	6	Adv	Hybrix 5	**Rp**	16	**4**	19	**Rp**	12	**5**	4.2	**5**	27	**4**	25		**9**	100	97	**1**	1.3	**3**	0	74	**1**	0	94
sh2	Y	6	Adv	Hybrix 49	**3**	19	**5**	21	**2**	14	**6**	4.8	**5**	27	**6**	34		**7**	88	35	**1**	1	**3**	5	74	**1**	0	94
sh2	Y	6	Adv	Hybrix 51	**3**	18	**5**	21	**3**	18	**6**	4.5	**3**	18	**4**	25		**1**	0	0	**1**	1.3	**5**	0	61	**3**	0	87
sh2	Y	2	IFS	IFSI 1	**Rp**	2	**Rp**	0	**6**	33	**3**	3.3	**9**	44	**9**	50		**9**	97	92	**8**	6	**1**	0	88	**1**	0	99
sh2	Y	2	IFS	IFSI 2	**Rp**	3	**Rp***	0	**Rp**	5	**4**	3.7	**9**	50	**9**	54		**9**	97	100	**8**	6.5	**3**	3	83	**1**	0	100
sh2	Y	2	IFS	IFSI 3	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**9**	47	**9**	53		**9**	92	100	**7**	5.5	**3**	3	87	**1**	0	100
sh2	Y	2	IFS	IFSI 4	**Rp**	3	**Rp**	0	**5**	28	**5**	4	**7**	35	**8**	41		**9**	98	100	**5**	4.5	**1**	0	93	**1**	0	94
sh2	Y	2	IFS	IFSI 5	**Rp**	3	**Rp**	0	**Rp***	3	**4**	3.8	**5**	30	**8**	41		**9**	100	95	**5**	4.8	**1**	0	95	**1**	0	95
sh2	Y	2	IFS	IFSI 6	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.5	**6**	32	**8**	41		**9**	100	94	**8**	6	**1**	0	93	**1**	0	97
sh2	Y	2	IFS	IFSI 7	**Rp**	0	**Rp***	0	**Rp**	0	**5**	4.3	**6**	32	**8**	41		**2**	14	0	**5**	4	**1**	0	100	**1**	0	100
sh2	Y	2	IFS	IFSI 8	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**6**	32	**7**	40		**3**	11	3	**6**	5.3	**1**	0	99	**1**	0	97
sh2	Y	3	IFS	IFSI 9	**Rp***	0	**Rp**	0	**Rp**	0	**5**	4.2	**7**	35	**7**	40		**9**	97	100	**5**	4	**1**	0	90	**1**	0	98
sh2	Y	3	IFS	IFSI 10	**Rp***	11	**Rp**	0	**Rp***	26	**4**	3.8	**7**	35	**8**	43		**8**	91	76	**5**	4.8	**1**	0	94	**1**	0	100
sh2	Y	3	IFS	IFSI 11	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**6**	34	**7**	40		**9**	100	97	**5**	4.3	**1**	0	96	**1**	0	100
sh2	Y	3	IFS	IFSI 12	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**7**	36	**6**	35		**9**	100	100	**5**	4.5	**1**	0	89	**1**	0	96
sh2	Y	3	IFS	IFSI 13	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**7**	38	**4**	24	Ht	**9**	97	97	**8**	6.8	**1**	0	94	**1**	0	100
sh2	Y	3	IFS	IFSI 14	**Rp**	0	**Rp***	0	**Rp**	0	**3**	3.2	**5**	29	**4**	26	Ht	**9**	97	95	**5**	4.5	**1**	0	95	**1**	0	93
sh2	Y	3	IFS	IFSI 15	**Rp**	0	**Rp***	0	**Rp**	0	**4**	3.5	**6**	32	**5**	29	Ht	**9**	100	95	**8**	6.8	**1**	0	89	**1**	0	100
sh2	Y	3	IFS	IFSI 16	**Rp***	0	**Rp**	0	**Rp**	0	**4**	3.8	**7**	37	**6**	36	Ht	**9**	97	89	**8**	6.5	**1**	0	90	**1**	0	96
sh2	Y	3	IFS	IFSI 17	**Rp**	9	**Rp**	0	**7**	38	**4**	3.8	**7**	36	**8**	41		**2**	9	6	**7**	5.8	**1**	0	85	**1**	0	94
sh2	Y	4	IFS	IFSI 18	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**5**	30	**6**	35		**9**	97	97	**6**	5	**1**	0	85	**1**	0	100
sh2	Y	4	IFS	IFSI 19	**Rp**	5	**4**	20	**Rp**	4	**2**	2.5	**5**	23	**2**	15	Ht	**9**	100	100	**7**	5.5	**1**	0	84	**1**	0	94
sh2	Y	4	IFS	IFSI 20	**Rp**	18	**4**	20	**Rp**	10	**3**	3.2	**7**	35	**3**	17	Ht	**9**	100	94	**5**	4.5	**1**	0	93	**1**	0	93
sh2	B	1	IFS	IFSI 21	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**5**	25	**5**	28		**9**	97	92	**3**	3.3	**1**	0	94	**1**	0	100
sh2	B	3	IFS	IFSI 22	**Rp***	1	**Rp***	11	**Rp***	4	**5**	4.3	**7**	35	**8**	41		**9**	100	100	**6**	5.3	**1**	0	83	**1**	0	99
sh2	B	3	IFS	IFSI 23	**Rp**	0	**Rp***	0	**Rp**	0	**5**	4.2	**8**	39	**7**	40		**9**	100	100	**5**	4.8	**1**	0	83	**1**	0	100
sh2	B	3	IFS	IFSI 24	**Rp**	7	**Rp**	0	**7**	37	**6**	4.8	**8**	43	**8**	43		**9**	98	93	**6**	5	**1**	0	81	**1**	0	98
sh2	B	3	IFS	IFSI 25	**Rp**	6	**Rp**	0	**6**	34	**5**	4	**9**	48	**8**	44		**9**	98	73	**3**	3	**3**	0	77	**3**	0	87
sh2	B	3	IFS	IFSI 26	**Rp**	0	**Rp***	0	**Rp**	0	**7**	5.3	**8**	40	**8**	41		**9**	100	91	**3**	3.3	**1**	0	86	**1**	0	100
sh2	B	3	IFS	IFSI 27	**Rp***	0	**Rp***	0	**Rp***	0	**5**	4.2	**8**	39	**5**	30	Ht	**9**	97	87	**5**	4	**1**	0	95	**1**	0	98
sh2	B	3	IFS	IFSI 28	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.7	**6**	34	**5**	29	Ht	**9**	100	100	**5**	4.5	**1**	0	89	**1**	0	96
sh2	B	3	IFS	IFSI 29	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4	**9**	44	**8**	44		**9**	97	92	**7**	5.5	**1**	0	86	**1**	0	100
sh2	B	3	IFS	IFSI 30	**Rp**	21	**6**	30	**Rp**	10	**3**	3.3	**6**	31	**7**	38		**9**	100	82	**5**	4.3	**1**	0	88	**1**	0	100
sh2	B	3	IFS	IFSI 31	**Rp**	18	**6**	29	**Rp**	7	**5**	4	**3**	18	**4**	23	Ht	**9**	100	100	**4**	3.5	**1**	0	87	**5**	13	100
sh2	B	3	IFS	IFSI 32	**5**	26	**5**	27	**3**	18	**6**	4.7	**1**	10	**2**	15	Ht	**9**	100	90	**5**	4.5	**3**	3	83	**1**	0	90
sh2	B	3	IFS	IFSI 33	**5**	27	**6**	30	**5**	29	**6**	4.5	**2**	12	**2**	15	Ht	**9**	100	84	**3**	3.3	**1**	0	97	**1**	0	100
sh2	B	4	IFS	IFSI 34	**Rp***	9	**Rp***	4	**Rp**	3	**2**	2.2	**5**	30	**3**	18	Ht	**9**	98	95	**6**	5	**1**	0	97	**1**	0	99
sh2	W	3	IFS	IFSI 35	**Rp***	7	**Rp***	0	**7**	38	**4**	3.7	**5**	30	**6**	34	Ht	**9**	100	97	**8**	6.3	**1**	0	92	**1**	0	90
sh2	W	3	IFS	IFSI 36	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.7	**5**	24	**5**	29		**9**	97	90	**5**	4.8	**1**	0	83	**1**	0	90
sh2	W	3	IFS	IFSI 37	**Rp***	8	**Rp***	0	**6**	35	**5**	4.3	**5**	25	**5**	29		**9**	100	93	**3**	3	**1**	0	97	**1**	0	99
sh2	W	3	IFS	IFSI 38	**Rp***	6	**Rp***	0	**5**	31	**4**	3.7	**6**	32	**5**	28	Ht	**9**	97	86	**5**	4.5	**1**	0	86	**3**	0	89

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	W	4	IFS	IFSI 39	**6**	30	**6**	31	**6**	33	**5**	4.2	**5**	29	**3**	18	Ht	**6**	66	24	**5**	4.5	**1**	0	92	**1**	0	100
sh2	Y	5	Cr	Juggernaut	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**5**	30	**5**	29		**9**	100	97	**3**	2.8	**1**	0	89	**1**	0	100
sh2	B	3	Rog	Legion	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4	**2**	11	**1**	10	Ht	**1**	0	0	**5**	4	**1**	0	100	**1**	0	100
sh2	Y	2	Cr	Marvel Edge	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.8	**5**	30	**6**	33		**9**	100	97	**5**	4.3	**1**	0	100	**1**	0	100
sh2	W	2	Cr	Marvel White	**Rp**	16	**5**	27	**Rp**	12	**5**	4.3	**5**	25	**5**	29		**9**	98	76	**5**	4.5	**1**	0	86	**3**	0	89
sh2	Y	4	HM	Max	**Rp**	27	**7**	34	**Rp**	18	**4**	3.7	**6**	32	**5**	31	Ht	**1**	0	0	**5**	4.3	**1**	0	83	**1**	0	97
sh2+	Y	2	Cent	Mirai 003	**4**	24	**5**	26	**5**	29	**3**	3.3	**6**	32	**9**	46		**8**	93	55	**7**	5.8	**1**	0	93	**1**	0	100
sh2+	Y	1	Cent	Mirai 131 Y	**5**	27	**5**	26	**6**	33	**3**	3.2	**5**	24	**5**	28	Ht	**9**	100	97	**9**	7	**1**	0	90	**1**	0	100
sh2+	Y	1	Cent	Mirai 148 Y	**5**	28	**5**	26	**6**	32	**4**	3.8	**5**	25	**5**	32	Ht	**9**	100	100	**9**	7	**3**	0	79	**1**	0	96
sh2+	Y	2	Cent	Mirai 160 Y	**5**	29	**5**	27	**6**	33	**4**	3.8	**5**	27	**6**	35		**9**	98	68	**7**	5.5	**1**	0	99	**1**	0	100
sh2+	B	2	Cent	Mirai 308 BC	**4**	24	**5**	27	**5**	30	**6**	4.7	**5**	28	**7**	38		**9**	100	100	**9**	7.6	**3**	1	93	**1**	0	100
sh2+	B	2	Cent	Mirai 311 BC	**5**	27	**5**	26	**6**	35	**6**	4.5	**5**	27	**8**	41		**9**	100	100	**9**	7.5	**1**	0	93	**1**	0	100
sh2+	B	2	Cent	Mirai 336 BC	**5**	28	**5**	26	**6**	32	**1**	1.8	**4**	20	**6**	35		**9**	97	92	**3**	3	**1**	0	86	**1**	0	97
sh2+	B	3	Cent	Mirai 351 BC	**7**	34	**6**	28	**7**	36	**4**	3.7	**5**	27	**5**	31	Ht	**9**	100	78	**8**	6	**1**	0	96	**1**	0	100
sh2+	W	3	Cent	Mirai 425 W	**7**	37	**6**	31	**6**	33	**4**	3.8	**6**	33	**8**	45		**9**	100	83	**8**	6.5	**1**	0	87	**1**	0	97
sh2	Y	3	MKS	MKS 014Y	**3**	17	**5**	22	**5**	24	**3**	3.2	**5**	28	**7**	38		**9**	100	100	**5**	4.3	**1**	0	100	**1**	0	100
sh2	Y	4	MKS	MKS 345Y	**6**	32	**7**	34	**5**	29	**5**	4.2	**5**	30	**4**	25	Ht	**8**	89	92	**6**	5	**1**	0	100	**1**	0	97
sh2	Y	2	MKS	MKS 588Y	**5**	28	**5**	25	**5**	30	**5**	4	**7**	38	**8**	44		**8**	91	73	**5**	4.8	**3**	3	95	**3**	3	100
sh2	W	3	MKS	MKS 814W	**4**	24	**5**	27	**5**	28	**4**	3.7	**5**	26	**5**	27		**5**	59	38	**5**	4	**3**	3	98	**3**	0	80
sh2	B	3	MKS	MKS 919B	**4**	24	**5**	26	**5**	24	**4**	3.8	**5**	29	**6**	34		**2**	6	0	**5**	4.8	**1**	0	96	**1**	0	92
sh2	B	2	MKS	MKS 999B	**9**	44	**7**	34	**8**	40	**5**	4	**8**	40	**9**	46		**9**	100	100	**8**	6	**1**	0	86	**1**	0	91
sh2	W	3	Rog	Munition	**Rp**	4	**Rp**	0	**5**	28	**4**	3.8	**2**	11	**2**	15	Ht	**4**	23	3	**7**	5.8	**1**	0	91	**3**	0	88
sh2	B	3	HM	NC 70082 BS	**7**	35	**6**	28	**5**	31	**4**	3.7	**5**	23	**5**	31		**9**	100	97	**3**	3.3	**3**	0	78	**1**	0	90
sh2	Y	3	HM	NC 70156 YS	**5**	29	**6**	28	**6**	32	**5**	4.3	**4**	20	**4**	26		**9**	100	100	**5**	4	**1**	0	87	**1**	0	97
sh2	B	3	HM	NC 70284 BS	**6**	32	**7**	33	**7**	39	**4**	3.8	**3**	15	**6**	33	Ht	**9**	100	100	**5**	4.5	**1**	0	90	**1**	0	97
sh2sy	B	3	Sem	Obsession	**Rp**	9	**4**	18	**Rp**	5	**4**	3.4	**3**	15	**2**	15	Ht	**9**	100	100	**5**	4.1	**1**	0	94	**1**	0	97
sh2+	B	3	Cr	Optimum	**5**	25	**5**	21	**5**	30	**7**	5.1	**4**	22	**5**	29		**9**	97	93	**5**	4.6	**1**	0	97	**1**	0	100
sh2	Y	5	Rog	Overland	**Rp**	1	**Rp**	0	**4**	22	**2**	2.2	**2**	12	**1**	10	Ht	**7**	84	50	**5**	4	**3**	3	.	**1**	0	.
sh2	Y	6	Adv	PAC 61661	**4**	22	**5**	24	**4**	20	**5**	4.3	**3**	18	**5**	30		**7**	83	12	**2**	2	**1**	0	81	**1**	0	97
sh2	Y	6	Adv	PAC 61663	**4**	21	**5**	22	**3**	16	**5**	4.2	**4**	20	**5**	27		**8**	95	35	**1**	1.8	**1**	0	93	**1**	0	96
sh2	Y	6	Adv	PAC 61749	**Rp**	16	**5**	21	**Rp**	15	**6**	4.5	**4**	22	**5**	27		**8**	91	88	**1**	1.5	**1**	0	93	**1**	0	100
sh2	Y	6	Adv	PAC 61750	**2**	12	**3**	16	**2**	11	**6**	4.5	**4**	21	**5**	32		**9**	97	75	**2**	2.3	**1**	0	91	**1**	0	100
sh2	Y	6	Adv	PAC Sw018	**Rp**	18	**5**	22	**Rp**	14	**3**	3.3	**5**	27	**5**	30		**8**	93	89	**1**	1.8	**1**	0	87	**1**	0	95
sh2	Y	2	Sem	Passion	**Rp**	8	**3**	16	**Rp**	6	**4**	3.4	**4**	20	**3**	19	Ht	**9**	96	94	**4**	3.9	**1**	0	95	**1**	0	100
sh2+	B	2	Cr	Pick Me	**7**	36	**7**	33	**7**	39	**7**	5	**5**	29	**8**	42		**9**	100	92	**5**	4.8	**1**	0	93	**1**	0	100
sh2	B	4	HM	Polaris	**Rp**	21	**6**	31	**Rp**	15	**5**	4.3	**7**	36	**8**	45		**2**	6	3	**4**	3.8	**3**	3	96	**1**	0	100
sh2	Y	3	Rog	Prime Plus	**Rp**	14	**7**	33	**Rp**	15	**3**	3	**3**	15	**3**	18	Ht	**8**	90	83	**8**	6	**1**	0	99	**1**	0	100
sh2	Y	2	Cr	Rana	**Rp**	15	**6**	29	**Rp**	8	**5**	4.3	**6**	32	**4**	23	Ht	**9**	97	97	**3**	2.8	**1**	0	100	**1**	0	100
sh2	Y	2	Rog	Ravelin	**Rp**	5	**5**	26	**Rp**	5	**7**	5.2	**6**	31	**3**	21	Ht	**9**	97	89	**6**	5	**1**	0	100	**1**	0	100
sh2	Y	4	PV	Rebecca	**Rp**	20	**6**	29	**Rp**	11	**4**	3.7	**5**	24	**2**	15	Ht	**9**	97	61	**3**	3	**1**	0	90	**1**	0	95
sh2	Y	1	SnRv	Rising Sun	**Rp**	14	**5**	21	**Rp**	6	**7**	5.2	**7**	35	**6**	34		**8**	88	73	**8**	6	**1**	0	95	**1**	0	99
sh2	Y	4	Cr	Samurai	**Rp**	17	**5**	25	**Rp**	6	**5**	4	**7**	37	**5**	30	Ht	**2**	3	3	**5**	4.8	**1**	0	83	**1**	0	95
sh2	Y	4	Sem	SEM 6	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**5**	30	**7**	39		**9**	100	98	**3**	3.3	**3**	0	72	**3**	0	88
sh2	Y	5	Sem	SEM 9	**Rp**	11	**5**	27	**Rp**	13	**5**	4	**6**	33	**6**	35		**2**	3	3	**7**	5.5	**1**	0	95	**1**	0	100
sh2	Y	5	Sem	SEM 11	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.5	**3**	18	**1**	11	Ht	**9**	100	97	**2**	2.5	**1**	0	85	**1**	0	98

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	4	Sem	SEM 18	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**5**	27	**3**	21	Ht	**9**	100	86	**4**	3.5	**3**	0	75	**1**	0	92
sh2	Y	4	Sem	SEM 27	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.3	**3**	16	**3**	21	Ht	**9**	100	85	**5**	4	**3**	0	71	**1**	0	94
sh2	Y	4	Sem	SEM 32	**Rp**	3	**Rp**	0	**2**	14	**5**	4.2	**5**	28	**5**	28	Ht	**9**	97	76	**2**	2.3	**3**	0	74	**1**	0	93
sh2	Y	4	Sem	SEM 40	**Rp**	0	**Rp**	0	**Rp**	1	**6**	4.5	**9**	43	**9**	47		**4**	22	6	**2**	2	**3**	5	75	**1**	0	93
sh2	W	4	Sem	SEM 41	**Rp**	9	**4**	20	**Rp**	6	**4**	3.5	**3**	15	**3**	17	Ht	**9**	100	94	**5**	4	**1**	0	93	**1**	0	99
sh2	B	5	Sem	SEM 42	**3**	17	**5**	21	**3**	17	**4**	3.8	**5**	28	**4**	22	Ht	**9**	100	84	**4**	3.5	**1**	0	93	**1**	0	100
sh2	Y	4	Sem	SEM 101	**Rp**	4	**Rp**	0	**5**	28	**6**	4.5	**6**	31	**5**	30	Ht	**9**	97	91	**5**	4	**3**	0	79	**3**	0	87
sh2	Y	4	Sem	SEM 102	**Rp**	3	**Rp**	0	**5**	25	**3**	3.2	**5**	30	**5**	27	Ht	**9**	95	83	**4**	3.8	**3**	0	80	**1**	0	93
sh2	Y	4	Sem	SEM 103	**Rp**	2	**Rp**	0	**5**	26	**5**	4.3	**3**	18	**4**	23	Ht	**9**	97	92	**3**	3	**1**	0	87	**1**	0	100
sh2	Y	5	Sem	SEM 104	**Rp**	23	**6**	28	**Rp**	15	**6**	4.8	**6**	33	**6**	33	Ht	**1**	5	0	**5**	4.8	**3**	5	85	**1**	0	100
sh2	W	4	Sem	SEM 105	**4**	22	**6**	28	**3**	19	**6**	4.5	**6**	33	**7**	38	Ht	**9**	96	100	**7**	5.8	**3**	0	77	**1**	0	100
sh2	Y	3	Sem	SEM 106	**9**	50	**8**	40	**9**	48	**3**	3.2	**6**	31	**6**	36		**9**	100	88	**9**	7.5	**1**	0	87	**1**	0	100
sh2	Y	5	Sem	SEM 107	**Rp***	0	**Rp***	0	**Rp**	0	**5**	4	**5**	28	**5**	28	Ht	**9**	100	94	**3**	3	**1**	0	83	**1**	0	100
sh2	Y	4	Sem	SEM 109	**Rp**	4	**Rp**	0	**3**	17	**7**	5.2	**4**	22	**4**	25	Ht	**9**	100	94	**4**	3.8	**3**	5	79	**3**	0	83
sh2	B	5	Sem	SEM 110	**6**	30	**6**	31	**5**	31	**7**	5	**5**	26	**5**	27		**9**	97	100	**7**	5.5	**3**	3	94	**1**	0	100
sh2	Y	4	Sem	SEM 111	**4**	22	**5**	24	**3**	17	**3**	3.3	**5**	25	**6**	35		**9**	100	94	**5**	4.5	**3**	0	80	**3**	0	89
sh2	Y	4	Sem	SEM 112	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4	**8**	39	**8**	43		**8**	92	54	**2**	2.3	**1**	0	94	**1**	0	96
sh2	B	4	Sem	SEM 113	**5**	29	**6**	28	**4**	22	**3**	3.3	**7**	35	**7**	39		**9**	100	97	**5**	4	**1**	0	99	**1**	0	100
sh2	Y	5	Sem	SEM 114	**Rp**	26	**7**	34	**Rp**	20	**6**	4.5	**8**	40	**8**	42		**2**	14	0	**5**	4	**3**	3	81	**1**	0	100
sh2	Y	4	Sem	SEM 115	**Rp**	27	**5**	24	**Rp**	12	**6**	4.5	**9**	48	**8**	45		**1**	0	0	**5**	4.3	**1**	0	87	**1**	0	97
sh2	Y	4	Sem	SEM 116	**6**	31	**5**	26	**7**	39	**6**	4.5	**5**	30	**5**	31		**9**	100	90	**5**	4.8	**1**	0	81	**1**	0	92
sh2	Y	4	Sem	SEM 117	**5**	26	**5**	26	**5**	26	**5**	4.3	**1**	10	**4**	22		**9**	100	89	**2**	2.3	**3**	0	66	**1**	0	100
sh2	W	4	Sem	SEM 118	**5**	25	**6**	31	**4**	23	**5**	4.2	**9**	45	**7**	39	Ht	**9**	97	100	**5**	4.8	**1**	0	92	**1**	0	100
sh2	Y	3	Sem	SEM 119	**Rp**	10	**4**	17	**Rp**	3	**5**	4	**5**	29	**6**	35		**1**	2	0	**6**	5	**1**	0	93	**1**	0	100
sh2	W	4	Sem	SEM 120	**Rp**	7	**5**	21	**Rp**	7	**5**	4	**4**	21	**3**	18	Ht	**2**	20	0	**4**	3.5	**1**	0	89	**1**	0	100
sh2	Y	3	Sem	SEM 121	**2**	14	**4**	18	**2**	11	**3**	3.3	**5**	28	**5**	32		**8**	87	68	**2**	2	**1**	0	97	**1**	0	98
sh2	B	3	Sem	SEM 122	**2**	12	**3**	16	**2**	13	**5**	4	**5**	30	**5**	29		**9**	100	92	**3**	3	**1**	0	98	**1**	0	92
sh2	B	3	Sem	SEM 123	**6**	30	**5**	26	**6**	35	**5**	4.3	**7**	37	**7**	40		**9**	100	80	**5**	4.3	**1**	0	86	**1**	0	97
sh2	B	3	Sem	SEM 124	**Rp**	6	**Rp**	0	**5**	31	**5**	4.3	**6**	34	**7**	39		**9**	100	95	**5**	4	**1**	0	95	**1**	0	100
sh2	B	3	Sem	SEM 125	**5**	29	**5**	26	**5**	30	**5**	4.3	**6**	34	**4**	25	Ht	**9**	100	100	**4**	3.5	**1**	0	87	**1**	0	93
sh2	W	3	Sem	SEM 126	**Rp**	23	**7**	34	**Rp**	14	**6**	4.5	**9**	52	**9**	60		**9**	100	100	**5**	4.8	**1**	0	85	**1**	0	98
sh2	W	3	Sem	SEM 127	**Rp**	3	**Rp**	0	**5**	25	**5**	4.3	**5**	30	**5**	32		**9**	95	73	**6**	5.3	**3**	5	78	**1**	0	100
sh2	Y	4	Sem	SEM 128	**7**	34	**6**	30	**8**	43	**4**	3.5	**7**	35	**8**	42		**9**	100	88	**3**	3	**3**	0	75	**1**	0	100
sh2	Y	4	Sem	SEM 129	**Rp**	12	**6**	28	**Rp**	9	**4**	3.8	**5**	25	**5**	30		**9**	100	100	**3**	3.3	**3**	0	74	**1**	0	100
sh2	B	4	Sem	SEM 130	**Rp**	2	**Rp**	0	**Rp**	0	**4**	3.5	**6**	33	**6**	33		**1**	0	0	**5**	4	**1**	0	94	**1**	0	92
sh2	W	4	Sem	SEM 131	**4**	22	**5**	21	**3**	16	**4**	3.5	**2**	11	**3**	17	Ht	**9**	94	100	**4**	3.8	**3**	3	83	**1**	0	100
sh2	W	4	Sem	SEM 132	**3**	16	**4**	17	**3**	18	**3**	2.8	**1**	8	**1**	11	Ht	**9**	97	97	**5**	4.5	**1**	0	91	**1**	0	100
sh2	B	3	Sem	SEM 133	**8**	42	**7**	33	**8**	41	**4**	3.7	**8**	39	**8**	42		**9**	100	100	**5**	4	**1**	0	88	**1**	0	97
sh2	Y	4	Sem	SEM 134	**Rp**	3	**Rp**	0	**4**	20	**5**	4	**5**	25	**4**	26	Ht	**9**	100	89	**2**	2	**3**	0	74	**1**	0	95
sh2	Y	3	Sem	SEM 135	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.7	**5**	30	**7**	39		**1**	0	0	**5**	4	**1**	0	100	**1**	0	100
sh2	Y	3	Sem	SEM 136	**Rp**	0	**Rp**	0	**Rp**	0	**4**	3.8	**6**	33	**8**	44		**9**	100	100	**4**	3.5	**1**	0	88	**3**	0	89
sh2	Y	3	Sem	SEM 137	**Rp**	15	**4**	19	**Rp**	10	**5**	4	**6**	32	**7**	37		**8**	86	94	**5**	4.8	**1**	0	87	**1**	0	93
sh2	W	3	Sem	SEM 138	**8**	42	**8**	40	**8**	43	**6**	4.5	**9**	47	**9**	48		**9**	100	100	**7**	5.8	**1**	0	90	**1**	0	100
sh2	B	4	Sem	SEM 139	**6**	31	**5**	22	**5**	28	**5**	4	**7**	35	**7**	37		**9**	100	100	**4**	3.5	**1**	0	98	**1**	0	100
sh2	Y	4	Sem	SEM 140	**Rp**	1	**Rp**	0	**2**	12	**2**	2.2	**2**	11	**1**	10	Ht	**9**	100	86	**2**	2.5	**3**	0	74	**1**	0	100

Table 7. Reactions of hybrids in the University of Illinois sweet corn disease nursery - 2010 (continued)

					Common rust						Stewart's																	
					avir		D-vir		G-vir		wilt		NLB race 1		NLB race 0			MDM (% infected)			SLB		Capreno			Accent		
					Rxn	%	Rxn	%	Rxn	%	Rxn	Rate	Rxn	%	Rxn	%	Ht	Rxn	late	early	Rxn	Rate	Rxn	Inj	Hgt	Rxn	Inj	Hgt
sh2	Y	4	Sem	SEM 141	**6**	33	**6**	31	**5**	31	**3**	3.3	**7**	36	**8**	42		**9**	100	86	**4**	3.5	**1**	0	85	**1**	0	100
sh2	B	4	Sem	SEM 142	**Rp**	8	**4**	17	**Rp**	4	**3**	3.2	**5**	24	**3**	20	Ht	**9**	100	97	**4**	3.8	**1**	0	83	**1**	0	100
sh2	Y	4	Sem	SEM 145	**5**	28	**6**	31	**5**	28	**6**	4.8	**5**	27	**5**	28		**9**	100	70	**5**	4	**1**	0	82	**3**	3	96
sh2	Y	3	Sem	SEM 147	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**5**	29	**6**	34		**5**	50	5	**4**	3.5	**5**	15	54	**7**	45	87
sh2	Y	3	Sem	SEM 148	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.3	**7**	36	**7**	40		**7**	85	0	**3**	3	**3**	0	80	**1**	0	99
sh2	Y	3	Sem	SEM 150	**Rp**	0	**Rp**	0	**Rp**	0	**3**	3.3	**5**	29	**3**	19	Ht	**1**	0	0	**3**	3.3	**1**	0	94	**1**	0	100
sh2	Y	4	Sem	SEM 156	**Rp**	10	**5**	26	**Rp**	7	**5**	4.2	**5**	29	**4**	26	Ht	**9**	96	96	**3**	3.3	**3**	0	73	**1**	0	93
sh2	Y	3	Sem	SEM 159	**Rp**	19	**5**	22	**Rp**	9	**5**	4.3	**6**	34	**6**	33		**9**	97	97	**3**	3	**1**	0	95	**1**	0	100
sh2	Y	3	Sem	SEM 162	**4**	22	**4**	20	**4**	22	**5**	4	**6**	32	**5**	31	Ht	**5**	51	8	**5**	4	**1**	0	95	**1**	0	93
sh2	Y	3	Sem	SEM 165	**Rp**	9	**3**	16	**Rp**	5	**4**	3.7	**5**	29	**5**	32	Ht	**6**	67	42	**3**	3	**1**	0	100	**1**	0	97
sh2	Y	4	Sem	SEM 167	**Rp**	15	**5**	23	**Rp**	11	**5**	4	**7**	38	**6**	33	Ht	**2**	4	4	**7**	5.8	**3**	0	79	**1**	0	100
sh2	B	4	Sem	SEM 169	**Rp**	11	**4**	19	**Rp**	6	**2**	2.7	**1**	9	**3**	18	Ht	**9**	100	95	**5**	4.3	**1**	0	99	**1**	0	100
sh2	Y	4	HM	Sentinel	**Rp**	21	**5**	26	**Rp**	11	**4**	3.7	**1**	10	**2**	14	Ht	**4**	33	5	**5**	4.5	**1**	0	87	**1**	0	100
sh2	Y	1	Sem	Signet	**6**	32	**7**	36	**6**	33	**5**	4.3	**6**	32	**6**	35		**9**	100	94	**6**	5.3	**1**	0	91	**1**	0	100
sh2	W	3	HM	Snow White	**8**	39	**9**	48	**9**	49	**8**	5.8	**4**	22	**5**	31		**7**	80	44			**1**	0	.	**1**	0	.
sh2	Y	4	SnRv	Spaceship	**1**	9	**6**	31			**3**	3.3	**5**	30	**4**	24	Ht	**9**	100	100	**4**	3.5	**3**	5	.	**1**	0	.
sh2	Y	4	AC	Summer Sweet 7650 Y	**Rp**	19	**6**	28	**Rp**	10	**3**	3.3	**2**	11	**1**	11	Ht	**8**	92	97	**4**	3.5	**1**	0	96	**1**	0	100
sh2	Y	4	Rog	Supersweet Jubilee	**3**	17	**5**	23	**3**	19	**9**	6.4	**8**	42	**8**	43		**9**	98	95	**5**	4.8	**5**	19	55	**5**	11	95
sh2	Y	4	Rog	Supersweet Jubilee Plus	**Rp**	20	**5**	26	**Rp**	9	**9**	6.2	**9**	44	**8**	45		**8**	91	88	**8**	6	**5**	8	58	**3**	0	87
sh2	Y	4	HM	Suregold	**Rp**	11	**5**	25	**Rp**	17	**4**	3.8	**6**	32	**6**	34		**4**	26	3	**3**	3	**1**	0	100	**1**	0	100
sh2	Y	4	Sem	Sweet Talk	**5**	27	**6**	31	**5**	29	**3**	3.3	**7**	37	**4**	25	Ht	**9**	95	90	**1**	1.8	**1**	0	88	**1**	0	93
sh2	W	4	Cr	Symmetry	**Rp**	11	**5**	22	**Rp**	7	**7**	5	**4**	20	**4**	25		**1**	5	0	**2**	2.5	**3**	0	72	**1**	0	94
sh2+	W	5	Cr	Tempest	**6**	32	**6**	31	**5**	27	**6**	4.5	**5**	26	**5**	28		**9**	100	74	**4**	3.5	**1**	0	89	**1**	0	100
sh2	Y	2	IFS	Vision	**7**	36	**6**	31	**5**	31	**5**	4.2	**7**	35	**8**	44		**9**	98	100	**5**	4.3	**1**	0	100	**1**	0	100
sh2	Y	4	Rog	Winstar	**Rp**	0	**Rp**	0	**Rp**	0	**5**	4.2	**8**	39	**7**	37	Ht	**5**	58	10	**5**	4.5	**3**	0	77	**1**	0	92
sh2	W	2	HM	WS 11614 R	**Rp**	0	**Rp**	0	**Rp**	0	**6**	4.5	**6**	31	**8**	41		**9**	100	87	**8**	6	**1**	0	93	**1**	0	94
bt	Y	6	HARC	Hawaiian Supersweet 10c2	**Rp**	5	**5**	21	**Rp**	4	**7**	5.2	**2**	12	**1**	10	Ht	**8**	82	71	**3**	2.8	**1**	0	100	**1**	0	100
bt	Y	6	HARC	Hi 0z5	**Rp**	1	**1**	7	**Rp**	2	**4**	3.7	**2**	11	**1**	11	Ht	**7**	88	33	**1**	1.5	**1**	0	100	**1**	0	94
bt	Y	6	HARC	Hi Thai 3	**Rp**	5	**1**	7	**Rp**	2	**8**	5.7	**1**	10	**2**	12		**2**	16	0	**1**	1.5	**3**	3	90	**3**	0	86
bt	W	6	HARC	Sweet Cynthia	**3**	16	**4**	17	**3**	16	**7**	5.2	**1**	10	**1**	9	Ht	**1**	0	0	**1**	1.3	**1**	0	98	**1**	0	100
bt	Y	6	HARC	Sweet Sarah 16	**Rp**	3	**1**	6	**Rp**	2	**7**	5.3	**4**	20	**3**	20	Ht	**4**	27	0	**2**	2	**1**	0	96	**1**	0	100
bt	Y	6	HARC	Sweet Sarah 18	**Rp**	2	**1**	6	**Rp**	2	**8**	5.8	**3**	17	**2**	15	Ht	**7**	70	27	**3**	2.8	**1**	0	100	**1**	0	100
				Trial mean		27.4	*	25.5	*	28.2	*	4.0		27.3		30			76	67		4.3		2.5	91		2.1	97
				Trial sd		8.41	*	6.76	*	9.62	*	0.81		9.2		9.6			36	39		1.22		12.6	10.8		11.9	8.4
				BLSD (k=100)		7.1	*	10.5	*	7.7	*	1.16		9.2		8.4			12	18		1.62		4.4	21.1		4.5	21.4
				Minimum		8	*	7	*	11	*	1.5		3		7			0	0		1		0	22		0	26
				1Q		22	*	21	*	21.3	*	3.5		22		24			76	25		3.5		0	87		0	96
				median		28	*	26	*	29	*	4		28		30			97	90		4.3		0	93		0	100
				3Q		32	*	30	*	34	*	4.5		34		37			100	97		5		0	100		0	100
				Maximum		50	*	48	*	58	*	7		52		60			100	100		8		98	100		100	100

* rust trial summary statistics for non-Rp hybrids only

Rxn - hybrid disease reactions: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible, Rp-resistant, Rp* - segregating for Rp, Ht-chlorotic reaction

Rate - disease rating: 0 to 100% leaf area infected (avirulent, D-virulent rust, G-virulent rust, NLB); 1 to 9 scale (Stewart's wilt, SLB); 0 to 100% incidence of infected plants (MDM);

Inj - herbicide injury (0 to 100%), Hgt - plant height as % of non-treated