

## SWEET CORN HYBRID DISEASE NURSERY – 2006

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Common rust, northern leaf blight (NLB), Stewart's wilt, maize dwarf mosaic (MDM) southern leaf blight (SLB) and southern rust can reduce yields of susceptible and moderately susceptible sweet corn hybrids. These diseases can be managed more efficiently if reactions of hybrids are known.

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*, *Rpp9*, *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 and race 1 of the northern leaf blight 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 procedure produces statistically "overlapping" groups without clear-cut differences between classes (e.g., the hybrid with least severe symptoms in the MR class does not differ significantly from the hybrid with the most severe symptoms in the R class).

Nevertheless, a consistent response over several trials produces a reasonable estimate of the disease reaction of a 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.

Sweet corn hybrids can also be damaged by certain postemergence herbicides. Reactions of hybrids to herbicides can be classified in a manner similar to disease reactions. This information can be used to identify sweet corn hybrids with the greatest risk of being damaged and to develop lists of hybrids on which specific herbicides should not be used.

This report summarizes the reactions of 379 sweet corn hybrids to Stewart's wilt, common rust, NLB, MDM, SLB, and southern rust based on their performance in the University of Illinois sweet corn disease nursery in 2006. The reactions of these hybrids to post-emergence applications of Callisto and Accent herbicides also are reported.

### MATERIALS AND METHODS

**Hybrids:** Three hundred and seventy-nine hybrids were evaluated in 2006. This included 217 *sh2* hybrids, 81 *se* hybrids and 81 *su* hybrids. Hybrids with multiple endosperm mutations were placed in the most appropriate of these three categories. Standard hybrids with relatively consistent reactions to common rust, Stewart's wilt, NLB, MDM, and SLB (Table 1) were included to compare the results from the 2006 nursery to those from previous nurseries.

**Table 1. Reactions of sweet corn hybrids included as standards in the 2006 disease nursery**

Hybrid	Stewart's wilt			Rust G-virulent			NLB (races 0 & 1)			MDM				SLB		
	Prior	06	Rating	Prior	06	Rating	Prior	06	Rating	Prior	06	Early	Late	Prior	06	Rating
277A	4	3	2.7	6	5	16%	5	4	24%	9	9	63%	100%	3	3	2.3
Ambrosia	2	3	2.8	5	6	20%	5	4	24%	9	9	90%	100%	6	7	4.3
Bonus	1	1	1.5	0	0	0%	5	2	14%	1	6	8%	100%	7	7	4.3
El Toro	4	5	3.7	0	0	0%	7	6	27%	2	3	7%	27%	4	1	1.5
Eliminator	2	2	2.2	0	0	0%	6	6	29%	1	5	10%	67%	6	6	3.8
Green Giant 27	2	4	3.2	2	2	8%	3	3	19%	8	9	64%	100%	4	3	2.3
Jubilee	9	8	5.8	5	6	23%	8	8	37%	9	9	80%	100%	4	3	2.3
Miracle	1	2	2.5	2	3	10%	3	3	20%	9	9	84%	100%	4	4	2.8
Sensor	5	5	3.7	4	4	15%	4	4	23%	9	8	59%	100%	3	2	2.0
Snow White	7	7	4.7	9	9	44%	7	4	24%	3	6	37%	57%	3	2	1.8
Tuxedo	3	5	3.5	3	4	14%	2	3	16%	9	9	76%	100%	2	1	1.3

Prior - reaction in previous years (1984-2004).

06 - reaction in 2006: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible.

Rating -2006 mean rating: 1 to 9 for Stewart's wilt and SLB; 0 to 100% severity of NLB and common rust, 0 to 100% incidence of MDM.

**Experimental design and procedures:** Each disease was a separate trial with two replicates of hybrids arranged in randomized complete blocks. Each trial was split into two main blocks: *sh2* hybrids and *su* or *se* hybrids. Each experimental unit was a 12-ft. row with about 15 plants per row. All trials were planted May 23 on the University of Illinois South Farms. Trials in which G-virulent and avirulent common rust were evaluated were in isolated fields. Six other trials were planted in one field, including: Stewart's wilt, NLB, D-virulent common rust, MDM, and evaluations of two herbicides, Callisto and Accent. The herbicide trials were subsequently used to assess reactions of hybrids to SLB and southern rust, respectively.

**Inoculation and disease assessment:** Trials were inoculated with: *Erwinia stewartii* (Stewart's wilt), *Exserohilum turcicum* (NLB) races 0 and 1, maize dwarf mosaic (MDM) virus strains A and B (SCMV), and three isolates of *Puccinia sorghi*: Rp1-D/Rp-G-avirulent (avirulent), Rp1-D-virulent (D-rust), and Rp-G-virulent (G-rust). Following assessment of plant injury to herbicides, plants in the herbicide trials were inoculated with either *Bipolaris maydis* (SLB) or *Puccinia polysora* (southern rust). Plants were inoculated with *E. stewartii* on June 14 and 22 by wounding leaves in the whorl and introducing bacteria into wounds. A mixture of conidia of races 0 and 1 of *E. turcicum* were sprayed into plant whorls June 13, 16, 21, 28 and July 5. Plants were inoculated with MDMV-A and B on June 12 and 15 by wounding leaves in the whorl and introducing viruses into wounds. In the trials inoculated with each of the races of rust, urediniospores of *P. sorghi* were sprayed into plant whorls: G-virulent: June 14, 19, 21, and 27; D-virulent: June 12, 16, 20, 22, 26, and 30; and avirulent: June 15, 19, and 22. Plants in the Callisto trial were inoculated with *B. maydis* by spraying conidia into whorls on June 23, 27, 29 and July 6. Plants in the Accent trial were inoculated with *P. polysora* by spraying urediniospores in whorls on June 27, July 6 and 10.

The total number of plants and the number of plants infected with MDM were counted June 26-29 in each row in the MDM trial. Incidence (%) of MDM-infected plants was calculated from totals of both replicates of a hybrid. Incidence of virus-infected plants also was measured August 4-8 in the same plots. For other diseases, symptom severity was rated. Each plot (row) was given a separate rating by two people. Stewart's wilt was

rated July 7-8 using a scale from 1 (symptoms within 2 cm of inoculation wounds) to 9 (severe systemic infection or dead plants). Percent leaf area infected with common rust was rated August 1-2 in the G-virulent rust trial and August 2-3 in the D-virulent trial. In the avirulent trial, the presence or absence of uredinia was recorded July 10 in order to determine if a hybrid carried an Rp gene for resistance. Leaf area infected with NLB was rated from 0 to 100% August 7-8. Hybrids with chlorotic lesions typical of Ht-resistance also were noted. Symptoms of SLB and southern rust were rated on a 1 to 9 scale (very mild to severe) August 3-4 and August 10-11, respectively.

**Herbicide application and assessment:** Post-emergence herbicides were applied June 15 when plants ranged from the 4- to 5-leaf stages and from about 8 to 12 inches. Accent was applied at 1.34 oz./A with a 1%v/v crop oil concentrate (COC) and 2 qt/A 28% UAN. Callisto was applied at 6.0 oz./A with 1% v/v (COC) and 2.5% v/v 28% UAN. The entire field had been treated pre-emergence with metachlor + atrazine.

Corn injury was rated visually June 21, 6 days after application. Each row was given two ratings and classified from 1 to 9, where 1 = no injury apparent, 5 = moderate injury, 9 = severe injury.

**Data analysis:** Disease ratings were analyzed by ANOVA. Hybrid reactions to diseases and herbicides were classified from 1 (highly resistant) to 9 (highly susceptible) according to standard deviations from the mean (z-scores), Bayesian least significant difference (BLSD) separations (k=100), ranks of standard hybrids, and/or the FASTCLUS procedure of SAS using various groupings of 6 to 12 clusters.

## RESULTS AND DISCUSSION

Symptoms ranged from very little disease to severely infected plants (Table 3). Reactions of standard hybrids to Stewart's wilt, common rust, NLB, MDM, and SLB were generally within expected ranges (Table 1). The criteria for classifying hybrid reactions are listed in Table 2. Table 3 includes reactions and actual ratings of the 379 hybrids **based solely on the 2006 trial**. This is the only data we have for some of these hybrids. For hybrids that have been evaluated in previous years, an assessment of disease reactions based on multiple trials is presented in another report.

**Table 2. Criteria for classifying hybrid reactions to diseases in the 2006 nursery**

	Classification of reaction									
	Rp 0	Resistant 1	Moderately resistant 2	3	4	Moderate 5	Moderately susceptible 6	7	8	Susceptible 9
Common rust G (%) ≤2			< 10	< 13	< 16	< 20	< 25	< 30	< 35	≥ 35
Common rust D (%) <5			< 10	< 14	< 20	< 25	< 28	< 33	< 36	≥ 36
NLB races 0&1 (%)		≤ 10	≤ 15	≤ 20	≤ 24	< 27	< 32	< 36	< 40	≥ 40
Stewart's wilt (1-9)		≤ 2	≤ 2.5	≤ 3	< 3.5	< 4	< 4.5	< 5	< 6	≥ 6
MDM-early (%)		0	< 10	< 15	< 20	< 30	≤ 40	≤ 60	< 80	≥ 80
MDM-late (%)		< 5	≤ 10	< 25	≤ 40	≤ 60	< 70	< 80	< 90	≥ 90
SLB (1-9)		≤ 1.5	≤ 2	< 2.5	< 3	< 3.5	< 4	< 5	< 6	≥ 6
Southern rust (1-9) 0		≤ 2	< 4	≤ 4.5	≤ 5.5	< 6.5	< 7	< 7.5	< 8	≥ 8
Accent (0-2)		0				< 0.5		< 1	< 2	2
Callisto (0-2)		0			< 0.5	< 0.6	< 1	< 1.5	< 2	2

See text for description of disease and herbicide assessments.

**Stewart's wilt.** Stewart's wilt ratings ranged from 1.3 to 7.2 with a mean of 3.8. Eighty-one hybrids that were rated 4.5 or higher (i.e., frequent systemic infection) were classified as moderately susceptible to susceptible (7 to 9). Hybrids that were rated from 3 to 4.5 (i.e., occasional systemic infection) were classified as moderate (4 to 6). Symptoms of Stewart's wilt were minor on 23 hybrids classified as resistant or R/MR (1 or 2) and on 56 hybrids with ratings from 2.5 to 3 that were classified as moderately resistant (3). Seven hybrids rated 2 or below were not different from Exp 6, the hybrid with the least severe symptoms. These included: Bonus, CSUWP1-7, CSUYP2-30, 179A, Mirai 334BC, Overland, and XTH 2179. Yield is affected minimally if Stewart's wilt is non-systemic, i.e., ratings <3. Of the 79 hybrids with R to MR reactions to Stewart's wilt, 8 were *se*, 49 were *sh2*, and 22 were *su*.

**Northern leaf blight.** Severity of NLB (% leaf area symptomatic) ranged from 6% to 48% and averaged 25% in the 2006 trial. In comparison, severity ranged from 8% to 86% and averaged 38% in 2005. NLB severity was 32% or higher on 68 hybrids with moderately susceptible to susceptible reactions (7 to 9). Two-hundred-and-six hybrids with 20% to 31% severity were classified between MR and MS (4 to 6).

Severity was 10% or less on 14 hybrids classified as resistant (1), including: 1283, 182A, 382A, B-235, B-375, Exp 6, GG Code 188, GSS 3186, Holiday, Merkur, Obsession, Overland, Ranger, and Sentinel. Forty-six hybrids with 10% to 15% leaf area infected were classified as R/MR (2). Forty-four hybrids that were classified as moderately resistant (3) had 15% to 20% leaf area

infected. Effects of NLB on yield are minimal when NLB severity is below 20%. Of the 104 hybrids with R to MR reactions to NLB, 12 were *se*, 73 were *sh2*, and 19 were *su*.

Thirteen of the 14 hybrids classified as R had chlorotic lesions indicative of an *Ht* gene that conveyed resistance to *E. turcicum* race 0. NLB severity averaged 19% and ranged from 6% to 37% on 145 hybrids with *Ht*-gene reactions. Severity averaged 28% with a range from 11% to 48% for 234 hybrids without *Ht*-gene reactions.

**Maize dwarf mosaic.** Incidence of MDM-infected plants 2 weeks after inoculation (about 6- to 7-leaf stage) ranged from 0 to 100% and averaged 57%. When MDM was rated 6 weeks later (about 1 wk past fresh corn harvest), average incidence of viral-infected plants increased to 85%. At the later rating, plants may have been infected by naturally-occurring MDM or by other maize viruses that were not easily distinguished from MDM.

Eleven hybrids classified as resistant (1) were completely asymptomatic at the early rating and had less than one infected plant at the later rating; including: 0873-5414, 0875-5781, 0875-6690, CSABF5-196, CSUYP2-28, Evita, EX 0873-5807, EX 0875-5821, Exp 12, Green Giant Code 186, and UY 0712 OJ. Twenty-three additional hybrids were entirely asymptomatic at the early rating but had 3% to 59% symptomatic plants at the later rating. These hybrids were classified as R/MR to MR (2-3). Thirteen other hybrids classified as MR (3) had 10% or less symptomatic plants at the early rating and 11% to 59% symptomatic plants at the later rating. Of the 47 hybrids classified R to MR, 4 were *se* hybrids, 15 were *sh2* hybrids, and 28 were *su* hybrids.

Incidence of MDM ranged from 0 to 49% at the early rating and from 16% to 100% at the late rating for 30 hybrids classified as having moderate reactions to MDM (i.e., 4 to 6). Incidence of viral-infected plants at the late rating was greater than 75% for 296 of the 301 hybrids classified as moderately susceptible to susceptible (7 to 9). At the early rating, incidence was greater than 50% for 263 of these 301 hybrids. At the late rating, incidence of plants with symptoms of viral infection was 100% for 275 hybrids.

**Southern leaf blight.** SLB ratings (1 to 9 scale) ranged from 1 to 7.3 and averaged 2.6. Ratings were 4 or above for 50 hybrids classified as moderately susceptible to susceptible to SLB (reactions of 7 to 9). One-hundred-and-thirty-six hybrids with ratings from 2.5 to 4 were classified between MR and MS (4 to 6). The majority of hybrids (192) were classified as R to MR with ratings lower than 2.5. Fifty-five hybrids with ratings of 1.5 and below included 6 *se* hybrids, 36 *sh2* hybrids, and 13 *su* hybrids.

**Southern rust.** Southern rust ratings (1 to 9 scale) ranged from 0 to 9 and averaged 6.4. Ratings were above 7 for 133 hybrids classified as moderately susceptible to susceptible (reactions of 7 to 9). Two-hundred-and-sixteen hybrids with ratings from 4.5 to 7 were classified between MR and MS (4 to 6). Eight hybrids with ratings from 4 to 4.5 were classified as moderately resistant. Ten hybrids with ratings below 4 were classified as R/M or R, including: Charisma, Exp 11, HMX 1368 WS, Lancelot, Merlin, Native Gem, Precious Gem, Spring Treat, Sugar Pearl, and Tuxedo. Uredinia of southern rust were not observed on two hybrids, Calvary and Sure Gold. These hybrids likely carry the *Rpp9* gene for resistance. Of the 18 hybrids classified from R to MR for southern rust (excluding the two hybrids with *Rpp*-reactions), 13 were *se* hybrids, 2 were *sh2* hybrids, and 3 were *su* hybrids.

**Common rust.** Excluding hybrids with Rp-resistant reactions, severity of common rust ranged from 2% to 44% and averaged 18% in the trial inoculated with G-virulent *P. sorghi* and from 9% to 41% with an average of 24% in the trial inoculated with D-virulent *P. sorghi*.

In the trial inoculated with avirulent *P. sorghi*, uredinia were not observed on 191 hybrids. Of these 191 hybrids, 130 were Rp-resistant only in the G-virulent trial, 29 were Rp-resistant only in the D-virulent trial, and 32 were Rp-resistant in both the G-virulent and D-virulent trials. Of the 32 hybrids resistant to G-virulent and D-virulent rust, 2 were *se* hybrids, 15 were *sh2* hybrids, and 15 were *su* hybrids.

Among the 130 hybrids that were Rp-resistant in the G-virulent trial, 19 had 28% or more leaf area infection (severity) in the D-virulent trial and were classified as MS to S. Of the 29 hybrids that were Rp-resistant in the D-virulent trial, five had rust severity of 25% or more in the G-virulent trial and were classified as MS to S.

Among the 188 hybrids that did not have Rp-resistance, the correlation between rust severity in the G-virulent and D-virulent trials was 0.72. Thirteen hybrids were moderately resistant with rust severity of 12% or less (G-virulent trial) and less than 20% (D-virulent trial). These included: Captivate, CSAB5-197, EX 0870 8188, GG Code 6, GG Code, 27, GG Code 61, GG Code 192, Lancelot, Miracle, Mirai 308BC, Synergy, Turbo, and XTH 1179. Among the 188 hybrids that did not have Rp-resistance, 58 hybrids were classified as MS to S in either the G-virulent or D-virulent trial.

**Reactions to herbicides.** Most hybrids were not affected by post-emergence applications of Callisto or Accent (Table 3). Ninety-eight hybrids displayed some symptoms of injury from Callisto. Callisto injury was severe (classified 7 to 9) on 14 hybrids: 0873 6987, 178A, Argent, B-146, CSHWF5-203, DMC 20-38, FL 3656, HMX 6386S, Merit, Supersweet Jubilee Plus, XP 0870 5770, XTH 1774, XTH 2477, and XTH 3175. Eight hybrids were injured severely by Accent: DMC 20-38, EX 0845 6347, FL 3656, HMX 6386S, Merit, XP 0870 5770, XTH 1774, and XTH 3175. Three were moderately injured: B-146, WH 0809, and WSS 1262. Previously, we observed an association among hybrid sensitive to Accent and Callisto. Hybrids sensitive to both herbicides may be homozygous for a gene that inhibits metabolism of these herbicides. Hybrids with moderate injury from Callisto and no symptoms of injury from Accent may be heterozygous for this gene.

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's	Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir		leaf blight			wilt	Early		Late			Rxn	Rate	Rxn	Rate	Acnt	Clsto
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate		
<b>Sugary hybrids</b>																								
su	Y	Sem	0873 8727	Rp	Rp	0	6	27	9	43		9	6.2	8	8	78	.	4	2.5	5	6.0	1	1	
su	Y	Sem	0875 5781	Rp	Rp	0	Rp	0	6	31	Ht	4	3.2	1	1	0	1	3	5	3.0	7	7.3	1	5
su	Y	Sem	0875 5816	Rp	Rp	0	Rp	0	2	13	Ht	4	3.3	7	7	59	7	76	5	3.3	7	7.0	1	1
su	Y	Sem	0875 6690	Rp	Rp	0	Rp	0	6	28		5	3.7	1	1	0	1	0	5	3.0	6	6.8	1	4
su	Y	SnR	Bliss	Rp	Rp	0	7	30	4	20		4	3.3	8	7	45	9	100	6	3.8	4	4.8	1	1
su	Y	Rog	Bold	Rp	Rp	1	9	41	3	16		3	2.7	7	4	19	9	100	2	2.0	6	6.5	1	1
su	Y	Rog	Bonus	Rp	Rp	0	4	19	2	14	Ht	1	1.5	6	2	8	9	100	7	4.3	5	6.3	1	1
su	Y	Rog	Cahill	Rp	6	23	Rp	0	8	37		5	3.8	8	7	59	9	100	7	4.0	5	6.3	1	1
su	Y	HM	Coho	Rp	Rp	0	5	24	7	32		9	7.2	8	6	36	9	100	2	2.0	6	6.5	1	5
su	Y	Cr	CSEYP4-132	Rp	Rp	0	4	15	6	29		5	3.7	3	3	10	3	20	6	3.8	4	5.5	1	1
su	W	Cr	CSUWP1-7	Rp	Rp	0	6	25	4	20		1	1.7	9	8	61	9	100	5	3.3	6	6.5	1	1
su	Y	Cr	CSUYP2-28	Rp	Rp	0	4	14	8	37		4	3.3	1	1	0	1	3	4	2.8	4	4.8	1	1
su	Y	DM	DMC 20-38	Rp	Rp	0	5	21	9	43		8	5.7	9	8	68	9	100	4	2.8	6	6.5	9	8
su	Y	HM	Dynamo	Rp	Rp	0	6	25	6	27		8	5.2	2	2	7	2	10	6	3.5	6	6.5	1	6
su	Y	Sem	El Toro	Rp	Rp	0	7	29	6	27		5	3.7	3	2	9	4	27	1	1.5	5	6.0	1	1
su	Y	Cr	Eliminator	Rp	Rp	0	8	33	6	29		2	2.2	5	3	10	6	67	6	3.8	6	6.8	1	1
su	Y	SnR	Empire		3	12	5	24	6	30		4	3.3	8	7	60	9	100	6	3.8	5	6.3	1	4
su	Y	SnR	Enterprise	Rp	Rp	0	4	17	3	17		5	3.5	2	1	0	3	14	4	2.5	5	6.3	1	1
su	Y	PV	Evita	Rp	Rp	0	4	13	8	36		5	3.5	1	1	0	1	0	6	3.8	5	6.3	1	1
su	Y	Sem	EX 0830 2424	Rp	Rp	0	5	24	2	14	Ht	2	2.3	9	8	69	9	100	7	4.5	8	7.8	1	1
su	Y	Sem	EX 0832 4148	Rp	Rp	0	4	14	6	28	Ht	7	4.7	9	8	78	9	100	7	4.0	7	7.0	1	1
su	Y	Sem	EX 0870 5640	Rp	Rp	0	2	9	4	20	Ht	3	2.8	8	6	38	9	100	6	3.5	6	6.8	1	4
su	Y	Sem	EX 0873 5807	Rp	Rp	0	3	12	3	17	Ht	2	2.2	1	1	0	1	0	7	4.5	6	6.8	1	1
su	Y	Sem	EX 0875 5780	Rp	Rp	0	Rp	0	2	15	Ht	2	2.5	2	1	0	3	23	8	5.5	6	6.8	1	1
su	Y	Sem	EX 0875 5821	Rp	Rp	0	Rp	0	3	18	Ht	3	2.8	1	1	0	1	0	7	4.3	6	6.5	1	1
su	Y	Sem	EX 847 5418	Rp	Rp	0	4	18	4	24	Ht	3	3.0	9	9	89	9	100	2	1.8	5	6.3	1	1
su	Y	Sem	EX 849 0239	Rp	Rp	0	6	26	6	30		6	4.3	9	9	94	9	100	2	1.8	5	5.8	1	1
su	Y		Exp 3	Rp	5	16	Rp	0	2	12		2	2.3	9	8	71	9	100	8	5.0	4	5.5	1	1
su	Y		Exp 11	Rp	Rp	0	4	17	9	48		8	5.8	9	9	93	9	100	2	1.8	2	3.5	1	1
su	Y		Exp 12	Rp	Rp	0	Rp	0	8	37		8	5.7	1	1	0	.		1	1.5	5	6.3	1	5
su	Y		Exp 13	Rp	Rp	0	Rp	0	7	35	Ht	8	5.5	2	1	0	3	16	1	1.5	6	6.5	1	4
su	Y		Exp 15	Rp	Rp	0	Rp	0	7	33		5	3.8	3	1	0	4	27	4	2.5	4	5.5	1	1
su	Y	Rog	GH 2171	Rp	5	17	Rp	0	6	27	Ht	7	4.5	3	2	7	3	17	7	4.0	4	4.8	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont.2)**

ET	KC	SdCo	Hybrid	Common rust						Northern		Stewart's	Maize dwarf mosaic					SLB		Southern		Herbicides	
				avir		G-vir		D-vir		leaf blight		wilt	Early		Late			Rxn	Rate	Rxn	Rate	Acnt	Clsto
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	
su	Y	Rog	GH 4927	Rp	6	21	Rp	0	8	36	8	5.5	9	8	74	9	100	3	2.3	5	6.0	1	6
su	Y	Rog	GH 5704	Rp	8	31	Rp	0	6	29	3	2.8	7	5	29	9	100	1	1.5	8	7.8	1	1
su	Y	Rog	GH 6014	Rp	5	16	Rp	0	6	29 Ht	8	5.5	3	1	0	4	38	4	2.5	6	6.5	1	4
su	Y	Rog	GH 6198	Rp	8	30	Rp	0	8	37 Ht	7	4.7	3	2	5	4	30	2	1.8	6	6.8	1	5
su	Y	Rog	GH 6223	Rp	Rp	0	Rp	0	2	14	4	3.3	6	3	10	9	100	2	1.8	5	5.8	1	1
su	Y	Rog	GH 6462	Rp	Rp	0	Rp	0	6	31 Ht	4	3.3	7	4	19	9	100	5	3.0	4	5.5	1	1
su	Y	Rog	GH 8267	Rp	5	17	Rp	0	4	22 Ht	6	4.2	2	1	0	2	6	5	3.3	6	6.8	1	6
su	Y	GG	Green Giant Code 6		2	9	4	17	4	21	3	2.7	8	7	55	9	93	4	2.5	7	7.0	1	1
su	Y	GG	Green Giant Code 17		4	15	6	27	4	22	3	2.8	9	9	80	9	100	8	5.3	4	5.0	1	1
su	Y	GG	Green Giant Code 27		2	8	3	12	3	19 Ht	4	3.2	9	8	64	9	100	3	2.3	6	6.8	1	1
su	W	GG	Green Giant Code 61		3	11	4	15	5	26	6	4.2	9	9	100	9	100	5	3.3	5	6.3	1	5
su	Y	GG	Green Giant Code 150	Rp	5	17	Rp	2	8	37	7	4.5	9	9	84	9	100	8	5.3			1	1
su	Y	GG	Green Giant Code 151	Rp	Rp	0	5	22	9	46	6	4.3	9	9	100	9	100	9	7.3	6	6.5	1	1
su	Y	GG	Green Giant Code 162	Rp	Rp	0	4	16	8	38	6	4.3	9	9	100			3	2.3			1	1
su	Y	GG	Green Giant Code 164		4	14	6	25	9	41	5	3.8	9	9	87	9	100	8	5.5	4	5.3	1	1
su	Y	GG	Green Giant Code 166	Rp	2	8	Rp	0	5	25	6	4.2	4	3	10	4	27	1	1.3	4	5.5	1	1
su	Y	GG	Green Giant Code 167	Rp	2	8	Rp	0	3	17	7	4.5	9	8	77	9	100	1	1.3	5	6.3	1	1
su	Y	GG	Green Giant Code 168	Rp	Rp	0	Rp	0	5	26	7	4.8	8	7	41	9	100	1	1.3	6	6.8	1	1
su	Y	GG	Green Giant Code 175	Rp	Rp	1	4	16	2	11 Ht	2	2.5	9	8	79	9	100	1	1.3	5	5.8	1	1
su	Y	GG	Green Giant Code 178	Rp	Rp	0	Rp	0	6	27	7	4.8	2	1	0	2	7	1	1.0	8	7.5	1	1
su	Y	GG	Green Giant Code 180	Rp	4	14	Rp	0	7	34	4	3.2	9	9	91	9	100	9	7.0	4	4.5	1	1
su	Y	GG	Green Giant Code 181	Rp	Rp	0	6	25	8	39	6	4.0	9	8	71	9	100	7	4.0	4	4.5	1	1
su	Y	GG	Green Giant Code 182	Rp	Rp	0	5	20	5	26	5	3.8	3	1	0	5	59	1	1.3	7	7.0	1	1
su	Y	GG	Green Giant Code 183		5	19	5	22	5	25	4	3.2	2	1	0	2	9	3	2.3	6	6.5	1	4
su	Y	GG	Green Giant Code 184	Rp	Rp	0	4	18	5	25	3	3.0	9	9	85	9	100	3	2.3	3	4.0	1	1
su	Y	GG	Green Giant Code 185	Rp	Rp	0	4	19	6	27	4	3.2	8	7	56	9	100	5	3.3	6	6.5	1	1
su	Y	GG	Green Giant Code 186	Rp	Rp	0	4	19	6	27	4	3.3	1	1	0	1	0	2	1.8	5	6.3	1	1
su	Y	GG	Green Giant Code 187		3	12	5	23	4	20	4	3.3	5	3	14	7	75	1	1.3	4	5.5	1	1
su	Y	GG	Green Giant Code 188	Rp	2	7	Rp	0	1	10	3	2.7	2	1	0	3	15	5	3.3	5	5.8	1	1
su	Y	Sem	Harvest Gold	Rp	Rp	0	4	14	2	11 Ht	3	3.0	8	7	56	9	100	7	4.3	6	6.8	1	1
su	Y	HM	HMX 6384	Rp	Rp	0	Rp	0	6	31	6	4.2	2	1	0	3	16	1	1.0	5	5.8	1	4
su	Y	HM	HMX 6385		3	12	5	21	2	13 Ht	2	2.5	9	9	97	9	100	3	2.3	5	6.0	1	1
su	Y	Rog	Jubilee		6	23	6	27	8	37	8	5.8	9	9	80	9	100	3	2.3	6	6.8	1	1
su	Y	HM	Legacy	Rp	Rp	0	5	20	9	41	6	4.3	9	8	76	9	100	7	4.5	3	4.3	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 3)**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides	
				avir	G-vir		D-vir		leaf blight		wilt		Early			Late		Rxn	Rate	Rxn	Rate	Acnt	Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate		
su	Y	HM	Lumina	Rp	Rp	0	5	24	7	35	Ht	8	5.6	7	8	68	6	63	6	3.5	5	6.4	1	1
su	Y	Sem	Merit		7	25	8	35	6	27	Ht	6	4.3	9	9	97	9	100	5	3.3			9	9
su	Y	Sem	Merkur	Rp	Rp	0	5	21	1	9	Ht	4	3.3	2	2	5	2	8	7	4.8	5	6.3	1	1
su	Y	SnR	Prelude		4	14	5	22	7	34		5	3.5	9	9	83	9	100	6	3.5	5	5.8	1	1
su	Y	SnR	Punch		3	12	5	23	6	30		6	4.3	9	8	76	9	100	6	3.5	5	5.8	1	1
su	Y	Rog	Rocker	Rp	Rp	0	Rp	0	8	36		5	3.7	4	2	5	5	45	3	2.3	5	5.8	1	1
su	Y	Cr	Tamarack	Rp	Rp	0	Rp	0	6	29		2	2.2	2	1	0	2	7	7	4.5	7	7.0	1	1
su	Y	HM	Turbo		3	10	4	16	3	16	Ht	7	4.7	4	3	10	4	39	1	1.5	4	5.3	1	4
su	Y	SnR	UY 0607 OJ	Rp	Rp	0	5	24	6	31		6	4.3	9	8	78	9	100	9	7.0	4	5.0	1	1
su	Y	SnR	UY 0712 OJ	Rp	Rp	0	4	16	5	26		3	3.0	1	1	0	1	0	5	3.3	5	6.3	1	1
su	Y	SnR	UY 1953 OK		3	11	5	23	2	14	Ht	5	3.5	2	1	0	2	9	2	2.0	5	5.8	1	1
su	Y	SnR	UY 2830 OL		5	16	5	22	8	37		5	3.5	9	8	64	9	100	6	3.5	7	7.0	1	4
su	Y	SnR	UY 2835 OL		4	14	5	22	7	34		6	4.2	9	8	78	9	100	6	3.5	6	6.8	1	6
su	W	Rog	WH 2801	Rp	Rp	2	9	38	5	26		3	3.0	9	9	93	9	100	4	2.5	6	6.8	1	1
<b>Sugary enhancer hybrids</b>																								
sesu	Y	Sem	0835 7448	Rp	Rp	0	Rp	0	8	37		4	3.3	2	1	0	2	9	2	2.0	6	6.8	1	1
sese	Y	Sem	0873 5414	Rp	Rp	0	6	26	5	26		6	4.3	1	1	0	1	0	4	2.8	4	4.5	1	1
sese	B	Sem	Absolute		4	15	4	19	3	18		3	3.0	9	9	90	9	100	4	2.5	5	5.8	1	1
se	B	MM	Accord		6	21	6	26	2	15		4	3.2	9	9	88	9	100	3	2.3	5	6.3	1	1
se	B	Cr	Ambrosia		6	20	5	22	4	24		3	2.8	9	9	90	9	100	7	4.3	4	5.5	1	1
se	W	Cr	Argent		5	17	6	25	3	19		3	2.7	9	9	80	9	100	7	4.0	5	6.3	1	8
se	W	MM	Augusta		6	21	4	19	4	24		4	3.2	8	7	52	9	100	5	3.0	5	5.8	1	1
se	Y	Cr	Bodacious		6	21	5	22	6	31		4	3.2	9	9	83	9	100	7	4.8	5	5.8	1	1
se	Y	Cr	Bodacious R/M	Rp	Rp	0	Rp	0	6	28		5	3.5						6	3.5	5	5.8	1	1
se	B	Cr	Bojangles		3	12	5	22	5	25		4	3.3	8	7	45	9	100	2	2.0	7	7.3	1	1
se	B	MM	Bon Appetit		5	16	5	24	6	27		8	5.0	9	8	73	9	100	2	2.0	3	4.0	1	1
se	B	MM	Bon Jour		5	16	5	23	7	34		7	4.7	8	8	71			6	3.8	4	5.0	1	1
se	Y	MM	Breeders Choice		9	38	6	27	4	20		4	3.2	9	9	81	9	100	4	2.5	5	5.8	1	1
se	B	MM	Brocade		5	19	7	29	2	15		6	4.0	9	9	81	9	100	2	1.8	3	4.3	1	1
se	B	Cr	Cameo		5	16	4	19	6	30		5	3.8	9	9	81	9	100	7	4.5	5	5.8	1	1
se	W	Cr	Captivate		3	12	4	16	6	28		4	3.3	8	7	60	9	100	3	2.3	5	6.0	1	1
se	W	Cr	Celestial		5	17	6	26	3	19		2	2.3	8	7	58	9	100	4	2.5	5	6.3	1	6
se	B	Sdw	Charisma		4	13	4	17	3	19		3	2.7	9	9	91	9	100	9	6.3	2	3.3	1	1
se	B	Cr	Charmed		6	21	5	24	5	26		5	3.7	8	7	53	9	100	4	2.5	7	7.0	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 4)**

ET	KC	SdCo	Hybrid	Common rust					Northern		Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir		leaf blight		wilt		Early			Late		Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto
se	Y	MM	Chief Ouray		7	27	7	29	7	34	7	4.8	9	8	66	9	100	3	2.3	4	5.5	1	1	
se	W	Cr	Cinderella		4	15	6	26	6	27	5	3.7	8	7	58	9	100	2	2.0	4	4.5	1	1	
se	B	MM	Cohasset		9	37	8	34	8	36	8	5.7	9	8	67	9	100	4	2.5	5	5.8	1	1	
se	Y	MM	Colorow TSW		7	27	7	30	5	25	5	3.8	9	9	87	9	100	3	2.3	4	5.0	1	1	
se	Y	Cr	CSEYP1-3	<b>Rp</b>	<b>Rp</b>	0	6	26	7	33	4	3.2	9	8	64	9	100	8	5.0	6	6.8	1	1	
se	W	Cr	Dasher		7	28	6	26		.	6	4.0	8	8	74		.	2	2.0		.	1	1	
se	B	Cr	Delectable		4	14	4	19	4	22	3	3.0	9	8	64	9	100	2	2.0	6	6.5	1	1	
se	W	MM	Denali		6	20	4	19	4	20	4	3.3	9	9	90	9	100	4	2.5	4	5.5	1	5	
se	B	MM	Double Gem		6	22	7	30	6	29	5	3.8	9	8	75	9	100	1	1.5	4	5.0	1	1	
se	W	Cr	Equinox		5	17	5	22	6	27	5	3.7	9	8	69	9	100	3	2.3	3	4.3	1	1	
sesy	R	Sem	EX 0845 6347		7	29	6	27	7	33	8	5.3	9	8	62	9	100	7	4.5	4	5.0	8	1	
sesy	R	Sem	EX 0845 6745		8	30	8	35	7	34	7	4.7	9	8	74	9	100	7	4.8	5	6.0	1	1	
sesu	Y	Sem	EX 0845 7299	<b>Rp</b>	<b>Rp</b>	0	3	12	8	39	6	4.0	9	9	83	9	100	4	2.5	6	6.8	1	5	
sesy	R	Sem	EX 0845 7413		4	14	5	20	6	29	7	4.5	9	8	70	9	100	3	2.3	5	6.3	1	6	
sesy	R	Sem	EX 0845 7418		5	16	5	22	6	29	6	4.0	9	9	81	9	100	2	2.0	5	6.3	1	6	
sesu	Y	Sem	EX 0871 6607	<b>Rp</b>	<b>Rp</b>	0	6	26	4	22	6	4.3	9	8	79	9	100	2	1.8	4	5.5	1	1	
sesu	Y	Sem	EX 0873 8119		3	11	5	20	5	25	5	3.7	9	9	89	9	100	2	2.0	4	4.8	1	1	
sesy	R	Sem	EX 0875 7306		4	15	5	22	6	30	4	3.3	3	2	6	3	11	6	3.5	4	5.0	1	1	
sesu	Y	Sem	EX 933 0109		4	13	5	24	6	31	5	3.7	9	9	80	9	100	4	2.5	4	5.3	1	1	
se+	W		Exp 10	<b>Rp</b>	<b>Rp</b>	0	8	34	3	19	4	3.2	9	8	75	9	100	2	2.0	6	6.5	1	1	
se+	Y		Exp 4	<b>Rp</b>	<b>Rp</b>	0	5	23	7	35	7	4.7	9	8	74	9	100	1	1.3	5	6.0	1	1	
se	B	Cr	Frisky		6	22	5	23	7	34	7	4.5	8	8	65		.	4	2.8		.	1	1	
se	W	Cr	Frosty		7	27	5	23	7	32	6	4.3	9	8	74	9	100	3	2.3	6	6.8	1	1	
se	B	Rog	Gateway		6	22	6	27	3	19	5	3.8	9	8	69	9	100	5	3.3	6	6.8	1	1	
se	Y	Rog	GH 0851	<b>Rp</b>	<b>Rp</b>	0	5	20	6	29	8	5.2	9	8	78	9	100	3	2.3	4	5.0	1	1	
se	Y	Rog	GH 1829	<b>Rp</b>	<b>Rp</b>	6	20	<b>Rp</b>	0	6	29	6	4.3	9	8	73	9	100	7	4.5	7	7.3	1	1
se	B	HM	HMX 6358BES		8	33	7	28	7	32	8	5.0	9	9	90		.	8	5.3		.	1	1	
se	W	HM	HMX 6359WES		5	16	4	16	6	29	7	4.7	9	9	97		.	7	4.8	4	4.5	1	1	
se+	Y	Rog	Honey Select		5	19	5	23	8	39	6	4.0	9	8	76	9	100	5	3.3	5	6.0	1	1	
se+	Y	Rog	Honey Treat		5	18	4	18	8	39	4	3.3	9	8	61	9	100	2	1.8	5	5.8	1	1	
se	Y	Cr	Incredible		6	21	5	22	6	30	5	3.5	9	8	73	9	100	7	4.0	4	5.0	1	1	
se	B	Cr	Kristine		5	18	5	23	4	22	4	3.3	9	9	97	9	100	1	1.5	3	4.3	1	1	
se	B	MM	Lancelot		3	10	4	15	3	17	4	3.3	9	9	86	9	100	2	2.0	2	3.5	1	1	
se	B	MM	Luscious		6	22	6	27	6	29	8	5.2	9	9	89	9	100	4	2.5	4	5.0	1	1	



**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 5)**

ET	KC	SdCo	Hybrid	Common rust					Northern		Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir		leaf blight		wilt		Early			Late		Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto
se	B	MM	Manitou	7	27	6	27	6	28	8	5.0	9	8	75	9	100	5	3.0	6	6.5	1	1		
se	W	MM	Mattapoisett	7	26	5	20	5	25	7	4.5	9	9	83	9	100	4	2.8	6	6.8	1	1		
se	Y	MM	Merlin	4	14	4	16	4	20	3	2.7	9	9	84	9	100	1	1.5	1	2.0	1	1		
se	Y	Cr	Miracle	3	10	4	16	4	20	2	2.5	9	9	84	9	100	4	2.8	4	4.8	1	1		
se	W	MM	Misquamicut	7	29	7	28	6	29	6	4.2	8	7	59	9	100	7	4.0	7	7.0	1	1		
se	B	MM	Monomoy	8	30	6	27	4	24	5	3.7	8	7	52	9	100	4	2.5	5	6.3	1	1		
se	B	MM	Montauk	7	28	7	28	6	28	6	4.0	9	8	63	9	100	7	4.0	6	6.8	1	1		
se	Y	MM	Muskegon	7	27	6	25	6	28	6	4.3	9	8	63	9	100	4	2.5	5	6.3	1	1		
se	B	MM	Nantasket	7	26	7	32	6	27	7	4.5	9	8	76	9	100	5	3.3	7	7.0	1	1		
se	B	MM	Native Gem	7	28	7	29	5	26	6	4.2	9	8	72	9	100	6	3.8	2	3.8	1	1		
se	B	Cr	Polka	7	29	6	27	6	31	5	3.7	9	9	87	.	.	2	2.0	5	6.0	1	1		
se	B	MM	Precious Gem	5	19	5	22	3	18	5	3.8	9	9	88	9	100	2	1.8	2	3.5	1	4		
se	B	HM	Reflection	5	16	6	26	4	23	5	3.8	9	8	61	9	100	6	3.5	5	6.0	1	1		
sb	B	HM	Revelation	7	25	5	22	7	33	7	4.7	8	8	70	.	.	9	6.8	4	5.0	1	1		
se	B	MM	Saugatuck	6	22	7	29	6	27	7	4.8	9	8	79	9	100	4	2.5	6	6.8	1	1		
se	B	Sem	Sensor	4	15	4	19	4	23	5	3.7	8	7	59	9	100	2	2.0	4	4.5	1	1		
se	Y	MM	Spring Treat	6	20	7	28	6	27	5	3.5	7	7	46	.	.	2	2.0	2	3.5	1	1		
se	W	MM	Sugar Pearl	7	27	7	29	6	29	5	3.8	9	8	69	9	100	2	2.0	2	3.8	1	1		
sesy	B	Sem	Synergy	3	12	4	16	2	15	5	3.5	8	7	60	9	100	4	2.8	4	5.0	1	1		
se	B	Cr	Trinity	9	36	7	29	6	28	6	4.0	9	9	90	.	.	5	3.0	4	5.5	1	1		
se	Y	MM	Tuxedo	4	14	4	15	3	16	5	3.5	9	8	76	9	100	1	1.3	2	3.5	1	1		
se	B	Cr	Valor	4	15	5	21	6	28	6	4.2	9	9	87	9	100	4	2.8	4	5.0	1	1		
se	W	Cr	Venus	7	27	6	27	4	24	4	3.3	9	8	65	9	100	1	1.5	4	4.5	1	1		
se	Y	MM	Welcome	7	26	6	26	6	29	6	4.0	9	9	93	9	100	6	3.8	3	4.3	1	1		
se	W	Rog	WH 0807	Rp	Rp	0	7	30	6	29	8	5.0	3	1	0	4	27	4	2.5	6	6.8	1	1	
se	W	Rog	WH 0809	Rp	7	27	Rp	0	7	35	8	5.0	9	8	71	9	100	2	1.8	8	7.5	5	1	
se	W	MM	White Out	8	33	6	27	6	27	5	3.8	9	8	67	9	100	7	4.3	4	5.5	1	1		
sesy	B	Sem	XP 0872 5994	8	32	5	24	5	26	8	5.2	9	9	90	.	.	7	4.8	.	.	1	1		
<b>Shrunken-2 hybrids</b>																								
sh2	Y	IFS	1183	Rp	Rp	0	5	20	2	12	Ht	5	3.7	9	9	81	9	100	1	1.5	3	4.3	1	1
sh2	Y	IFS	1273		7	26	7	32	6	29		5	3.8	9	8	72	9	100	4	2.5	7	7.3	1	1
sh2	Y	IFS	1283	Rp	Rp	0	5	20	1	10	Ht	3	3.0	9	9	97	9	100	1	1.3	4	5.0	1	4
sh2	B	IFS	2174		6	21	6	25	4	22		4	3.3	9	8	62	9	100	4	2.5	9	8.0	1	5
sh2	B	Sem	0843 4754		4	14	5	23	5	26	Ht	5	3.8	8	8	67	7	79	2	1.8	8	7.5	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 6)**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides	
				avir		G-vir		D-vir	leaf blight		wilt	Early		Late			Rxn Rate		Rxn Rate		Acnt Clsto			
				Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto	
sh2	Y	Sem	0843 4912		4	15	4	19	5	25		5	3.8	9	8	72	9	100	6	3.5	7	7.0	1	1
sh2	Y	Sem	0872 7276		4	15	6	25	4	21	Ht	3	2.8	9	8	79	9	100	3	2.3	5	6.3	1	1
sh2	Y	Sem	0873 5421	Rp	5	16	Rp	0	5	25	Ht	4	3.3	9	8	61	9	100	1	1.3	8	7.5	1	1
sh2	Y	Sem	0873 5926	Rp	Rp	0	Rp	0	3	17		5	3.5	8	7	50	9	100	1	1.3	6	6.5	1	1
sh2	B	Sem	0873 6987	Rp	Rp	0	5	23	3	17	Ht	3	3.0	6	2	6	9	100	2	1.8	7	7.3	1	7
sh2	B	Sem	0873 6997	Rp	Rp	0	5	24	4	23		6	4.3	3	2	6	3	18	2	1.8	8	7.8	1	1
sh2	Y	Sem	0874 5015	Rp	Rp	0	7	30	4	20	Ht	6	4.0	2	1	0	2	7	2	2.0	7	7.0	1	1
sh2	Y	Sem	0874 5943	Rp	Rp	0	7	30	3	17		6	4.2	4	3	10	5	57	2	2.0	9	8.3	1	1
sh2	B	Sem	0874 6070		5	17	5	22	3	19	Ht	7	4.5	8	7	51	9	100	5	3.0	7	7.3	1	1
sh2	Y	Sem	0874 6105	Rp	Rp	0	Rp	0	4	20	Ht	3	3.0	5	5	22	4	28	1	1.0	6	6.5	1	5
sh2	Y	Sem	0874 6107	Rp	Rp	0	Rp	0	6	29		5	3.5	4	4	16	4	39	1	1.3	6	6.5	1	1
sh2	B	Sem	0875 6538	Rp	Rp	0	Rp	0	8	37		9	6.0	9	9	89	9	93	2	2.0	9	8.8	1	1
sh2	B	Sem	0875 6539	Rp	Rp	0	Rp	0	5	25	Ht	8	5.0	9	9	100	9	100	4	2.8	9	8.0	1	4
sh2	W	Sem	0875 8639	Rp	Rp	0	Rp	0	7	34	Ht	6	4.3	2	1	0	2	7	2	1.8	8	7.5	1	1
sh2	B	Sem	0876 5391	Rp	Rp	0	Rp	0	5	25		5	3.5	9	8	78	9	94	5	3.0	9	8.3	1	1
sh2	B	Sem	0876 5403	Rp	Rp	0	Rp	0	4	24		8	5.0	9	8	74	9	100	5	3.3	9	8.0	1	1
sh2	Y	IFS	170A		3	12	5	23	7	35		6	4.2	9	8	72	9	100	6	3.5	8	7.5	1	6
sh2	Y	IFS	173A		5	16	5	24	6	29		3	2.8	8	7	54	9	100	4	2.5	6	6.8	1	4
sh2	Y	IFS	178A		7	27	7	30	5	26	Ht	5	3.7	9	9	88	9	100	7	4.8	9	8.3	1	8
sh2	Y	IFS	179A		5	17	5	24	4	24		1	1.8	9	8	68	9	100	6	3.5	8	7.8	1	1
sh2	Y	IFS	180A	Rp	Rp	0	5	24	2	12	Ht	3	2.7	9	9	87	9	100	2	2.0	5	6.0	1	1
sh2	Y	IFS	182 A	Rp	Rp	0	4	17	1	9	Ht	2	2.2	9	8	75	9	100	2	1.8	4	5.5	1	4
sh2	B	IFS	273 A		4	13	5	22	6	31		5	3.5	8	7	50	9	100	7	4.0	5	6.3	1	1
sh2	B	IFS	274A		7	28	7	29	6	29		6	4.0	9	8	77	9	100	6	3.5	9	8.3	1	1
sh2	B	IFS	275A		7	28	7	31	6	27		6	4.2	9	8	79	9	100	7	4.0	8	7.8	1	1
sh2	B	IFS	277 A		5	16	5	22	4	24		3	2.7	9	8	63	9	100	3	2.3	7	7.0	1	5
sh2	B	IFS	278 A		6	24	6	27	2	12	Ht	5	3.7	6	7	49	5	57	3	2.3	7	7.3	1	1
sh2	B	IFS	281A	Rp	Rp	0	6	26	2	13	Ht	3	3.0	9	9	80	9	100	2	2.0	6	6.8	1	1
sh2	B	IFS	282 A	Rp	Rp	0	6	27	2	14	Ht	4	3.3	9	9	89	9	100	2	2.0	5	6.0	1	1
sh2	W	IFS	378 A		6	24	6	25	2	12	Ht	5	3.5	9	9	80	9	100	2	2.0	6	6.8	1	4
sh2	W	IFS	382 A	Rp	Rp	0	6	27	1	10	Ht	5	3.5	9	9	83	9	100	2	1.8	5	6.3	1	1
sh2	W	AC	844 W		7	25	7	29	4	21	Ht	3	3.0	9	8	71	9	100	2	1.8	6	6.8	1	1
sh2	Y	Bas	A-44		5	17	5	24	2	14		4	3.2	8	6	39	9	100	2	1.8	6	6.5	1	1
sh2	Y	Bas	A-79-1	Rp	Rp	0	5	23	4	22		3	3.0	9	8	71	9	100	4	2.8	5	6.3	1	5

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 7)**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir		leaf blight			wilt		Early		Late			Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto	
sh2	B	AC	ACX 1027 BC	Rp	Rp	0	8	33	5	26	8	5.7	9	8	70	9	100	2	2.0	6	6.5	1	1		
sh2	Y	AC	ACX 1082 MRV	Rp	5	19	Rp	0	4	20	5	3.8	9	8	71	9	100	2	2.0	7	7.3	1	1		
sh2	Y	AC	ACX 1161 Y	Rp	Rp	0	9	38	7	32	8	5.3	8	6	38	9	100	4	2.5	7	7.3	1	1		
sh2	W	AC	ACX 1204 MRW	Rp	5	17	Rp	0	2	14	5	3.7	9	8	68	9	100	1	1.5	6	6.8	1	1		
sh2	Y	Bas	B-146	Rp	Rp	0	5	21	3	19	Ht	5	3.7	7	5	23	9	100	5	3.3	6	6.5	5	9	
sh2	Y	Bas	B-234		5	16	5	23	3	16		2	2.3	9	9	90	9	100	3	2.3	4	4.8	1	4	
sh2	Y	Bas	B-235	Rp	Rp	0	Rp	0	1	10	Ht	5	3.5	5	6	38	4	38	6	3.5	9	8.5	1	6	
sh2	Y	Bas	B-375	Rp	3	11	Rp	0	1	7	Ht	2	2.3	9	8	76	9	100	2	1.8	4	5.5	1	4	
sh2	Y	Sem	Basin R	Rp	Rp	0	6	26	6	30		6	4.2	8	6	38	9	100	2	2.0	6	6.5	1	4	
sh2	Y	Cr	Bountiful		6	21	7	28	7	35		8	5.0	8	7	60	9	100	4	2.8	8	7.5	1	1	
sh2	W	Rog	Brighton		7	28	9	38	7	33		9	6.8	5	5	22	5	56	4	2.8	8	7.8	1	1	
sh2	B	Rog	BSS 0982	Rp	Rp	0	6	26	6	29		8	5.7	4	3	14	5	57	2	2.0	7	7.3	1	1	
sh2	W	Cr	Cascade		7	27	6	27	6	29		5	3.8	9	9	84	9	100	3	2.3	6	6.8	1	1	
sh2	B	HM	Cavalry	Rp	Rp	0	5	24	2	11		5	3.7	6	2	6	9	100	1	1.0	Rpp	0.0	1	1	
sh2	Y	Sem	Challenger		6	22	6	26	4	20	Ht	3	2.8	9	8	75	9	100	2	1.8	7	7.3	1	1	
sh2	Y	SnR	Columbus		4	15	6	26	2	15	Ht	3	2.7	9	8	70	9	100	4	2.5	8	7.8	1	5	
sh2	B	Cr	CSABF5-195	Rp	Rp	0	6	27	6	30		5	3.8	3	1	0	5	58	3	2.3	7	7.0	1	4	
sh2	B	Cr	CSABF5-196	Rp	Rp	0	5	24	6	27		7	4.7	1	1	0	1	0	2	1.8	6	6.5	1	4	
sh2	B	Cr	CSABP5-197		3	12	4	19	2	15		4	3.2	9	8	79	9	100	2	1.8	5	5.8	1	1	
sh2	W	Cr	CSHWF5-203	Rp	Rp	0	5	20	3	17		5	3.5	6	5	26	7	70	1	1.5	5	5.8	1	7	
sh2	W	Cr	CSHWP -202		6	24	7	29	5	26		8	5.2	9	8	71	9	100	2	1.8	6	6.8	1	5	
sh2	Y	Cr	CSHYF3-113		6	20	5	24	5	25		8	5.2	9	8	69	9	100	3	2.3	8	7.5	1	1	
sh2	Y	Cr	CSHYF5-204		4	15	6	26	2	14		3	2.7	9	9	82	9	100	1	1.3	5	6.3	1	4	
sh2	Y	Cr	CSHYP3-99	Rp	Rp	1	5	22	3	18		9	6.2	9	8	61	9	100	5	3.0	8	7.5	1	1	
sh2	Y	Cr	CSHYP4-144	Rp	Rp	0	6	27	5	26		6	4.0	9	8	69	9	100	4	2.5	7	7.0	1	1	
sh2	Y	Cr	CSHYP4-145	Rp	Rp	0	5	22	4	21		4	3.2	8	7	52	9	100	2	2.0	7	7.0	1	1	
sh2	Y	Cr	CSHYP4-147	Rp	Rp	0	6	27	5	26		6	4.0	2	2	9	2	6	4	2.5	6	6.8	1	1	
sh2	Y	Cr	CSHYP5-193	Rp	Rp	0	5	20	3	19		3	2.7	9	8	78	9	100	4	2.5	5	6.0	1	1	
sh2	Y	Cr	CSHYPF5-187	Rp	Rp	0	6	27	4	21		9	6.7	6	6	40	5	57	4	2.8	7	7.0	1	1	
sh2	W	Sem	Devotion		3	11	5	22	4	24	Ht	5	3.5	9	9	91	9	100	4	2.8	7	7.0	1	4	
sh2	Y	IFS	DI6031	Rp	Rp	0	4	19	3	16	Ht	3	2.7	8	7	59	9	100	1	1.5	6	6.8	1	1	
sh2	Y	IFS	DI6360		5	17	6	26	7	32		4	3.3	8	7	41	9	100	3	2.3	6	6.8	1	4	
sh2	Y	DM	DMC 21-84	Rp	Rp	0	4	19	3	17	Ht	5	3.8	8	6	34	9	100	4	2.8	5	5.8	1	5	
sh2	W	SnR	Everest		5	17	5	24	7	35		7	4.8	9	9	83	9	100	2	2.0	6	6.8	1	1	

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 8)**

ET	KC	SdCo	Hybrid	Common rust			Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides			
				avir	G-vir		D-vir		leaf blight			wilt		Early			Late		Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto
sh2	Y	Sem	EX 0841 3049		5	17	7	29	6	29	4	3.2	9	8	64	9	100	6	3.8	6	6.8	1	1	
sh2	B	Sem	EX 0843 4712	Rp	Rp	0	5	21	7	34	6	4.2	8	8	79	8	82	1	1.5	8	7.8	1	1	
sh2	B	Sem	EX 0870 5788	Rp	Rp	0	6	26	5	26	7	4.5	7	8	64	6	64	3	2.3	8	7.5	1	6	
sh2	Y	Sem	EX 0870 8188		3	12	4	19	4	20 Ht	6	4.0	8	7	48	9	100	1	1.5	7	7.0	1	1	
sh2	Y	Sem	EX 0871 6636	Rp	Rp	0	6	26	6	31	4	3.3	7	6	36	8	82	2	1.8	7	7.0	1	1	
sh2	Y	Sem	EX 0871 7180	Rp	Rp	0	5	21	4	21 Ht	4	3.3	7	8	67	6	63	2	2.0	7	7.3	1	1	
sh2	Y	Sem	EX 0871 7187	Rp	Rp	0	5	24	5	25	3	3.0	3	2	8	3	19	2	1.8	8	7.8	1	1	
sh2	Y	Sem	EX 0871 7197	Rp	Rp	2	6	27	5	26	8	5.3	6	5	29	7	71	2	2.0	9	8.0	1	1	
sh2	Y	Sem	EX 0872 5143		6	22	7	29	4	22 Ht	7	4.8	8	7	44	9	100	2	2.0	6	6.5	1	4	
sh2	Y	Sem	EX 0872 7277		4	13	5	22	4	23	3	2.7	9	8	76	9	90	4	2.5	5	6.0	1	1	
sh2	Y	Sem	EX 0873 5590	Rp	Rp	0	5	24	4	24	7	4.8	5	1	0	9	100	5	3.3	4	5.0	1	4	
sh2	Y	Sem	EX 0873 6091		3	11	5	20	4	24 Ht	6	4.2	9	8	65	9	100	1	1.5	8	7.8	1	1	
sh2	Y	Sem	EX 0873 6102		4	13	6	25	6	29	6	4.2	9	9	84	9	100	4	2.5	9	8.0	1	1	
sh2	B	Sem	EX 0873 7009	Rp	Rp	0	4	19	7	33 Ht	6	4.2	8	7	45	9	100	1	1.5	7	7.3	1	4	
sh2	W	Sem	EX 0873 7068	Rp	Rp	0	5	21	6	29	6	4.0	4	3	11	4	29	2	2.0	6	6.8	1	4	
sh2	B	Sem	EX 0874 5857	Rp	3	10	Rp	0	3	16 Ht	4	3.3	9	8	67	9	100	5	3.0	7	7.3	1	1	
sh2	B	Sem	EX 0874 6057	Rp	3	11	Rp	0	2	14 Ht	4	3.3	8	7	56	9	100	5	3.3	7	7.0	1	5	
sh2	B	Sem	EX 936 2439		4	15	5	20	4	22	8	5.8	8	7	42	9	100	5	3.0	5	6.0	1	1	
sh2	Y		Exp 1	Rp	Rp	0	Rp	0	4	21	8	5.0	2	1	0	3	17	1	1.3	6	6.8	1	1	
sh2	Y		Exp 5	Rp	4	14	Rp	0	2	11 Ht	2	2.2	8	7	58	9	100	2	2.0	5	6.0	1	1	
sh2	Y		Exp 6	Rp	5	17	Rp	0	1	6 Ht	1	1.3	9	8	65	9	100	6	3.5	7	7.3	1	4	
sh2	Y		Exp 7	Rp	Rp	0	7	28	2	14 Ht	6	4.0	2	1	0	3	19	2	1.8	8	7.5	1	1	
sh2	B		Exp 8	Rp	Rp	0	8	33	6	28	6	4.2	8	7	56	9	100	6	3.8	9	8.3	1	1	
sh2	W		Exp 9	Rp	5	19	Rp	2	4	22	5	3.5	4	4	16	3	16	1	1.5	5	5.8	1	1	
sh2	Y		Exp 14		5	17	7	28	2	14 Ht	4	3.2	9	9	81	9	100	7	4.0	6	6.5	1	1	
sh2	Y		Exp 16	Rp	Rp	0	Rp	0	3	17	4	3.2	2	1	0	3	13	2	2.0	7	7.0	1	1	
sh2	Y		Exp 17	Rp	Rp	0	Rp	0	3	19	6	4.0	2	1	0	3	21	1	1.5	7	7.0	1	1	
sh2	Y	IFS	FL3656	Rp	Rp	0	5	24	6	27	4	3.3	8	7	45	9	100	6	3.5			8	8	
sh2	B	IFS	GA5335		7	26	6	26	4	22	4	3.2	9	8	68	9	100	4	2.5	8	7.8	1	1	
sh2	Y	GG	Green Giant Code 177	Rp	Rp	0	5	24	6	27	6	4.2	9	8	73	9	100	4	2.8	8	7.8	1	1	
sh2	Y	GG	Green Giant Code 179	Rp	Rp	0	4	19	5	25	5	3.8	9	8	73	9	100	4	2.8	7	7.3	1	1	
sh2	Y	GG	Green Giant Code 189		2	9	5	24	5	25	3	3.0	9	9	84	9	100	4	2.5	7	7.0	1	4	
sh2	Y	GG	Green Giant Code 190	Rp	Rp	0	Rp	0	8	36	8	5.0	9	8	65	9	100	3	2.3	9	8.0	1	1	
sh2	Y	GG	Green Giant Code 191	Rp	4	14	Rp	0	4	23	3	3.0	9	8	77	9	100	4	2.5	9	8.8	1	6	

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 9)**

ET	KC	SdCo	Hybrid	Common rust					Northern		Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir	leaf blight		wilt		Early			Late		SLB		rust		Herbicides		
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto
sh2	Y	GG	Green Giant Code 192		3	11	4	19	3	17	Ht	5	3.5	7	7	52	7	79	1	1.3	6	6.5	1	1
sh2	Y	Rog	GSS 1477	Rp	Rp	0	5	24	2	14	Ht	6	4.0	6	5	25	7	75	2	1.8	7	7.0	1	1
sh2	Y	Rog	GSS 2008	Rp	Rp	0	5	23	7	32	Ht	7	4.8	8	8	73	7	73	5	3.0	6	6.8	1	1
sh2	Y	Rog	GSS 3186	Rp	Rp	0	Rp	0	1	7	Ht	3	3.0	3	1	0	4	35	3	2.3	7	7.3	1	1
sh2	Y	Rog	GSS 6564		4	14	5	24	4	23		4	3.2	8	6	33	9	100	2	2.0	6	6.8	1	1
sh2	B	SnR	HB 0192 OJ	Rp	Rp	0	6	26	8	37		7	4.8	9	9	81	9	100	4	2.5	5	5.8	1	1
sh2	B	SnR	HB 1321 OK		8	31	7	30	8	36		6	4.3	9	8	72	9	100	5	3.0	8	7.5	1	4
sh2	B	SnR	HB 2162 OL	Rp	Rp	1	6	27	9	41		8	5.8	9	8	65	9	100	7	4.8	5	6.0	1	1
sh2	W	HM	HMX 1368 WS	Rp	Rp	0	6	26	6	29		6	4.0	3	2	7	3	22	1	1.5	1	1.0	1	1
sh2	Y	HM	HMX 4388 S		4	14	5	23	6	31		6	4.3	9	8	62	9	100	6	3.5	9	8.0	1	1
sh2	Y	HM	HMX 4396 S	Rp	Rp	0	6	26	6	31		5	3.7	8	6	39	9	100	2	1.8	9	8.0	1	1
sh2	W	HM	HMX 5354 WS		7	27	8	33	4	24		5	3.5	8	7	57	9	100	3	2.3	9	8.8	1	4
sh2	W	HM	HMX 5355 WS	Rp	8	31	Rp	0	6	28		3	3.0	7	5	23	9	100	2	2.0	9	9.0	1	1
sh2	Y	HM	HMX 6386 S	Rp	7	25	Rp	0	3	16	Ht	4	3.2	4	3	13	4	34	5	3.0			9	9
sh2	B	Cr	Holiday	Rp	Rp	0	7	31	1	10	Ht	3	2.8	8	7	46	9	100	2	2.0	6	6.8	1	1
sh2	B	Sem	Hollywood	Rp	Rp	0	5	24	6	27		6	4.3	9	8	71	9	100	5	3.0	8	7.8	1	6
sh2	W	SnR	HW 1336 OK		6	20	5	24	3	19	Ht	4	3.2	8	7	55	9	100	4	2.5	7	7.3	1	1
sh2	Y	SnR	HY 1790 OL	Rp	Rp	0	6	26	6	27	Ht	6	4.3	8	7	51	9	100	5	3.3	6	6.8	1	1
sh2	Y	SnR	HY 1901 OL	Rp	Rp	0	5	22	4	24	Ht	6	4.2	9	9	100	9	100	4	2.5	5	6.3	1	1
sh2	Y	SnR	HY 579 OK		5	18	5	20	4	20	Ht	3	3.0	8	6	31	9	100	2	1.8	5	6.0	1	1
sh2	B	IFS	Jumpstart		6	24	7	28	8	37		8	5.3	9	8	69	9	100	7	4.5	5	5.8	1	1
sh2	Y	SnR	Lancaster	Rp	Rp	0	6	26	5	25	Ht	8	5.2	9	8	67	9	100	2	1.8	6	6.5	1	1
sh2	Y	Rog	Magnum II		4	15	5	21	2	15	Ht	4	3.3	9	9	80	9	100	4	2.5	6	6.8	1	1
sh2	B	IFS	Majesty		7	26	7	31	3	18	Ht	4	3.2	9	9	90	9	100	3	2.3	6	6.8	1	1
sh2	Y	Cr	Marvel G15	Rp	Rp	0	Rp	0	4	24		7	4.7	8	7	53	9	100	3	2.3	9	8.0	1	1
sh2	Y	HM	Max	Rp	Rp	0	7	28	3	16	Ht	5	3.5	3	2	6	3	16	4	2.5	9	9.0	1	4
sh2	Y	Cen	Mirai 130 Y		3	10	5	21	4	22		5	3.7	9	9	87	9	100	9	6.0	8	7.5	1	1
sh2	Y	Cen	Mirai 131 Y		3	10	5	21	5	25		6	4.2	9	8	70	9	100	7	4.5	6	6.5	1	4
sh2	B	Cen	Mirai 301 BC		4	14	6	26	6	29		6	4.0	8	7	44	9	100	5	3.0	8	7.5	1	4
sh2	B	Cen	Mirai 302 BC		4	15	6	26	6	28		5	3.7	8	7	52	9	100	5	3.0	8	7.8	1	4
sh2	B	Cen	Mirai 308 BC		2	7	4	19	5	26		7	4.8	9	9	83	9	100	9	6.5	7	7.3	1	1
sh2	B	Cen	Mirai 334 BC		2	9	5	22	2	14		1	2.0	9	9	87	9	100	3	2.3	8	7.5	1	4
sh2	W	Cen	Mirai 421 W		5	18	6	27	6	29		4	3.2	9	8	67	9	100	5	3.3	9	8.3	1	1
sh2	Y	Cen	Mirai X148 Y		3	12	5	22	4	24		5	3.8	9	8	71	9	100	8	5.3	5	6.3	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 10)**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides	
				avir		G-vir		D-vir		leaf blight		wilt		Early			Late		Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate		
sh2	B	Cen	Mirai X350 BC		3	10	5	24	3	19	Ht	2	2.5	8	7	58	9	100	5	3.0	8	7.8	1	1
sh2	B	Sem	Obsession	<b>Rp</b>	<b>Rp</b>	0	4	19	1	10	Ht	3	2.7	8	8	76	7	78	3	2.4	9	8.1	1	1
sh2	B	Cr	Optimum		7	26	6	25	7	34		7	4.5	9	9	88	9	100	4	2.8	7	7.0	1	1
sh2	Y	Rog	Overland	<b>Rp</b>	4	14	<b>Rp</b>	0	1	9	Ht	1	2.0	8	7	44	9	100	4	2.8	5	6.3	1	1
sh2	Y	Sem	Passion	<b>Rp</b>	<b>Rp</b>	0	5	20	2	14		4	3.2	9	8	79	9	100	2	1.8	9	8.0	1	1
sh2	Y	Rog	Protégé	<b>Rp</b>	4	14	<b>Rp</b>	2	3	16	Ht	3	3.0	9	8	70	9	100	3	2.3	7	7.0	1	1
sh2	Y	PV	Rana	<b>Rp</b>	<b>Rp</b>	0	5	23	3	19	Ht	6	4.0	6	7	44	5	44	1	1.3	6	6.5	1	1
sh2	Y	HM	Ranger		7	26	8	33	1	6		6	4.2	3	2	9	4	26	2	2.0	6	6.8	1	1
sh2	Y	PV	Rebecca	<b>Rp</b>	<b>Rp</b>	0	7	31	2	15	Ht	5	3.7	8	6	37	9	100	1	1.3	5	6.3	1	1
sh2	Y	SnR	Rising Sun	<b>Rp</b>	<b>Rp</b>	0	4	18	7	32		5	3.5	9	9	83	9	100	2	1.8	5	6.3	1	1
sh2	Y	IFS	Saturn		4	15	4	19	6	27	Ht	4	3.3	9	8	73	9	100	4	2.5	4	5.0	1	1
sh2	B	IFS	SCH 23604 BC RR	<b>Rp</b>	<b>Rp</b>	0	6	27	6	29		5	3.7	9	8	74	9	100	2	2.0	7	7.3	1	1
sh2	Y	IFS	SCH 30129	<b>Rp</b>	<b>Rp</b>	0	7	28	2	12	Ht	4	3.2	8	8	67	7	79	2	2.0	7	7.0	1	1
sh2	Y	IFS	SCH 30131	<b>Rp</b>	<b>Rp</b>	0	6	27	7	33		6	4.0	9	8	69	9	100	6	3.5	8	7.5	1	1
sh2	B	IFS	SCH 55041	<b>Rp</b>	<b>Rp</b>	0	6	27	3	19	Ht	5	3.5	8	7	44	9	100	1	1.5	5	6.3	1	1
sh2	Y	IFS	SCH 70064 RR	<b>Rp</b>	<b>Rp</b>	0	6	26	4	23	Ht	3	2.8	9	8	74	9	97	2	2.0	7	7.3	1	1
sh2	B	IFS	SCH 96064		6	22	6	27	4	20	Ht	4	3.3	9	8	72	9	100	1	1.5	5	6.3	1	1
sh2	Y	HM	Sentinel	<b>Rp</b>	<b>Rp</b>	0	5	22	1	7		6	4.3	5	6	37	4	40	2	1.8	4	5.5	1	4
sh2	Y	Sem	Shimmer	<b>Rp</b>	<b>Rp</b>	0	5	21	3	18	Ht	5	3.7	9	9	90	9	91	1	1.5	5	6.1	1	1
sh2	W	HM	Snow White		9	44	9	41	4	24		7	4.7	6	6	37	5	57	2	1.8	9	8.8	1	1
sh2	Y	Rog	Supersweet Jubilee		5	18	5	23	6	31		9	6.5	8	8	67	8	80	1	1.3	4	5.5	1	5
sh2	Y	Rog	Supersweet Jubilee Plus	<b>Rp</b>	<b>Rp</b>	0	6	26	8	38		9	6.3	8	7	44	9	100	1	1.5	5	5.8	1	7
sh2	Y	HM	Suregold	<b>Rp</b>	<b>Rp</b>	0	6	26	4	23		5	3.7	7	4	20	9	100	2	1.8	<b>Rpp</b>	0.0	1	6
sh2	B	Cr	Surpass		7	27	6	27	7	33		8	5.3	9	8	70	9	100	3	2.3	9	8.0	1	1
sh2	Y	Rsp	Sweet Perfection		7	27	7	32	6	27		3	3.0	9	8	73	9	100	4	2.8	8	7.5	1	1
sh2	Y	Rsp	Sweet Shipper		4	13	5	20	6	31		6	4.3	9	9	83	9	100	3	2.3	7	7.3	1	1
sh2	Y	Rsp	Sweet Sunrise		4	15	5	22	6	28		5	3.7	8	7	41	9	100	7	4.5	7	7.0	1	1
sh2	B	IFS	Triumph		6	22	6	27	5	25		4	3.2	9	8	67	9	100	4	2.5	9	8.5	1	1
sh2	Y	IFS	Vision		7	27	7	32	5	26		5	3.8	9	8	63	9	100	4	2.5	7	7.4	1	1
sh2	Y	IFS	W2:915T		7	27	7	28	8	37		8	5.2	9	8	67	9	100	4	2.5	7	7.3	1	4
sh2	W	Rog	WSS 1262		4	15	6	27	6	28		8	5.5	8	6	39	9	100	5	3.0	7	7.3	5	6
sh2	W	Sem	XP 0870 5770	<b>Rp</b>	<b>Rp</b>	0	7	29	6	27		5	3.8	4	2	6	6	69	5	3.3	5	5.8	8	9
sh2	Y	Sem	XP 0870 5808	<b>Rp</b>	<b>Rp</b>	4	8	34	6	31		7	4.7	6	3	13	9	100	4	2.8	6	6.5	1	1
sh2	Y	Sem	XP 938 1178		3	12	5	22	4	23		6	4.2	9	8	72	9	100	2	1.8	8	7.8	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 11)**

ET	KC	SdCo	Hybrid	Common rust					Northern		Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir	leaf blight		wilt		Early			Late		SLB		rust		Herbicides		
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto
sh2	Y	IFS	XTH 1168		7	27	7	29	6	30	Ht	4	3.3	8	7	52	9	100	3	2.3	9	8.5	1	1
sh2	Y	IFS	XTH 1171		5	18	6	27	7	32		5	3.8	9	9	100	9	100	4	2.5	6	6.5	1	5
sh2	Y	IFS	XTH 1174		6	21	6	26	6	31		5	3.8	9	8	69	9	100	2	2.0	9	8.0	1	1
sh2	Y	IFS	XTH 1178		6	23	6	27	6	30		5	3.5	8	8	67	8	87	2	1.8	7	7.0	1	1
sh2	Y	IFS	XTH 1179		3	11	4	19	4	22		4	3.3	9	8	67	9	100	3	2.3	7	7.3	1	1
sh2	Y	IFS	XTH 1181	Rp	Rp	0	6	26	3	17	Ht	4	3.3	8	7	57	9	100	3	2.3	6	6.8	1	5
sh2	Y	IFS	XTH 1182	Rp	Rp	0	5	23	3	16	Ht	4	3.3	8	7	43	8	87	2	2.0	8	7.8	1	1
sh2	Y	IFS	XTH 1270		4	15	6	27	7	32		6	4.3	8	7	57	9	100	1	1.5	8	7.5	1	5
sh2	Y	IFS	XTH 1272		7	26	6	26	6	29		4	3.3	9	9	89	9	100	5	3.3	8	7.5	1	4
sh2	Y	IFS	XTH 1274		5	17	5	23	3	18		3	2.7	9	8	71	9	100	3	2.3	8	7.5	1	6
sh2	Y	IFS	XTH 1275		6	20	6	27	6	27		4	3.3	9	9	80	9	100	4	2.8	9	8.0	1	6
sh2	Y	IFS	XTH 1278		5	16	5	24	7	34		7	4.7	9	9	97	9	100	2	1.8	7	7.0	1	4
sh2	Y	IFS	XTH 1279		4	13	5	24	6	31		6	4.2	9	8	78	9	100	2	1.8	6	6.8	1	1
sh2	Y	IFS	XTH 1280	Rp	Rp	0	5	22	2	14	Ht	3	2.7	9	8	76	9	100	1	1.5	4	5.0	1	1
sh2	Y	IFS	XTH 1281	Rp	Rp	0	5	23	2	14	Ht	3	2.8	8	8	67	8	85	2	1.8	6	6.8	1	4
sh2	Y	IFS	XTH 1282	Rp	Rp	0	5	24	3	19	Ht	5	3.5	9	9	94	9	100	2	1.8	7	7.0	1	4
sh2	Y	IFS	XTH 1373		6	20	6	26	5	26		2	2.5	8	7	54	9	100	4	2.8	6	6.8	1	5
sh2	Y	IFS	XTH 1377		7	28	7	31	6	30		3	3.0	8	7	58	9	100	1	1.5	8	7.8	1	1
sh2	Y	IFS	XTH 1381		6	23	6	25	6	27		5	3.5	9	8	73	9	100	5	3.0	8	7.5	1	1
sh2	Y	IFS	XTH 1475		4	15	6	27	6	27	Ht	4	3.3	9	8	79	9	100	5	3.0	6	6.5	1	1
sh2	Y	IFS	XTH 1574		5	16	6	26	6	28		4	3.3	8	6	33	9	100	3	2.3	7	7.0	1	1
sh2	Y	IFS	XTH 1575		6	21	6	27	6	27		5	3.8	9	9	81	9	100	3	2.3	7	7.0	1	1
sh2	Y	IFS	XTH 1578		4	14	6	25	6	29		7	4.5	9	9	83	9	100	1	1.5	6	6.5	1	4
sh2	Y	IFS	XTH 1678	Rp	Rp	0	4	19	5	25	Ht	4	3.3	9	9	91	9	100	1	1.5	5	5.8	1	1
sh2	Y	IFS	XTH 1774		6	20	6	26	8	36		7	4.7	9	8	61	9	100	2	1.9	7	7.3	8	7
sh2	Y	IFS	XTH 1974		6	20	6	26	7	33		6	4.2	9	9	89	9	100	1	1.5	7	7.0	1	4
sh2	B	IFS	XTH 2170		6	22	5	23	6	28		6	4.3	9	9	88	9	100	7	4.3	6	6.8	1	1
sh2	B	IFS	XTH 2173		5	16	5	22	5	25		5	3.7	8	6	34	9	100	4	2.5	5	6.3	1	1
sh2	B	IFS	XTH 2178	Rp	Rp	0	5	22	2	11	Ht	3	2.8	9	8	74	9	100	1	1.5	4	5.5	1	4
sh2	B	IFS	XTH 2179		6	20	4	19	4	22		1	2.0	8	7	42	9	100	7	4.0	8	7.8	1	4
sh2	B	IFS	XTH 2184	Rp	Rp	0	5	20	2	14	Ht	3	2.8	8	7	52	9	100	2	2.0	5	5.8	1	1
sh2	B	IFS	XTH 2278	Rp	Rp	0	5	23	2	14	Ht	3	3.0	9	8	75	9	100	1	1.3	6	6.5	1	4
sh2	B	IFS	XTH 2279	Rp	Rp	0	5	24	2	13	Ht	3	3.0	9	8	72	9	100	2	1.8	5	5.8	1	1
sh2	B	IFS	XTH 2280	Rp	Rp	0	5	22	2	14	Ht	4	3.3	9	9	83	9	100	2	1.8	7	7.0	1	1

**Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2006 (cont. 12)**

ET	KC	SdCo	Hybrid	Common rust					Northern			Stewart's		Maize dwarf mosaic					SLB		Southern		Herbicides		
				avir		G-vir		D-vir		leaf blight			wilt		Early			Late		Rxn Rate		Rxn Rate		Acnt Clsto	
				Rp	Rxn	%	Rxn	%	Rxn	%	Ht	Rxn	Rate	Rxn	Rxn	%	Rxn	%	Rxn	Rate	Rxn	Rate	Acnt	Clsto	
sh2	B	IFS	XTH 2281	Rp	Rp	0	5	24	2	15	Ht	3	3.0	9	8	70	9	100	2	2.0	5	6.0	1	1	
sh2	B	IFS	XTH 2381	Rp	Rp	0	5	22	2	12	Ht	3	2.8	9	8	67	9	100	3	2.3	6	6.5	1	1	
sh2	B	IFS	XTH 2477		5	19	5	24	6	29		7	4.7	9	8	77	9	100	5	3.3	7	7.0	1	7	
sh2	W	IFS	XTH 3173		6	23	6	26	5	26		3	2.8	9	8	68	9	100	2	2.0	7	7.0	1	5	
sh2	W	IFS	XTH 3175		7	27	7	28	6	27		4	3.3	8	7	59	9	100	4	2.8	6	6.8	7	9	
sh2	W	IFS	XTH 3180	Rp	Rp	0	5	21	2	15	Ht	4	3.3	6	5	24	7	70	1	1.5	5	6.0	1	1	
sh2	W	IFS	XTH 3181	Rp	Rp	0	5	23	2	13	Ht	4	3.2	8	7	55	9	100	2	2.0	6	6.8	1	1	
sh2	W	IFS	XTH 3379		4	14	5	22	5	26	Ht	4	3.3	9	8	67	9	100	2	1.8	4	4.8	1	1	
			Mean			18.2		23.7		24.6			3.8			57		85		2.6		6.4			
			SD			7.4		5.3		7.9			0.9			29		30		1.1		1.2			
			BLSD			6.5		5.4		5			1.0							1.1		1.1			
			Minimum			0		0		6			1.3			0		0		1		0			
			Maximum			44		41		48			7.2			100		100		7.3		9			
			Best 25%			0		19		19			3.2			40		98		1.8		5.8			
			Median			12		23		26			3.7			67		100		2.3		6.5			
			Worst 25%			19		26		29			4.3			78		100		3.3		7.3			

Rxn - classification of hybrid disease reactions: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible

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

Seed source: AC - Abbott & Cobb, Bas - Basso, Cen - 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, Sem - Seminis, SnR - Snowy River