

SWEET CORN HYBRID DISEASE NURSERY – 2004

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Common rust, northern leaf blight (NLB), Stewart's wilt, maize dwarf mosaic (MDM) and southern leaf blight (SLB) 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*, *Ht1*, or *Mdm1*, can prevent or substantially limit disease development if specific virulence is not present in pathogen populations. Hybrids with major gene resistance usually have clearly distinguishable phenotypes. Major gene resistance may be ineffective 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 also can be damaged by certain corn 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 recommendations that specific herbicides not be used on those hybrids.

This report summarizes the reactions of 378 sweet corn hybrids to Stewart's wilt, common rust, NLB, MDM, and SLB based on their performance in the University of Illinois sweet corn disease nursery in 2004. The reactions of these hybrids to post-emergence applications of Accent, Callisto, and Option herbicides also are reported.

MATERIALS AND METHODS

Hybrids: Three hundred and seventy-eight hybrids were evaluated in 2004. This included 216 *sh2* hybrids, 77 *se* hybrids and 85 *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 2004 nursery to those from previous nurseries.

Table 1. Reactions of sweet corn hybrids included as standards in the 2004 disease nursery

Hybrid	Stewart's wilt			Rust D-virulent			NLB (races 0 & 1)			MDM-A			SLB		
	Prior	04	Rating	Prior	04	Rating	Prior	04	Rating	Prior	04	Rating	Prior	04	Rating
Bonus	1	1	1.0	4	5	39 %	5	5	36 %	1	1	0 %	6	8	5.5
El Toro	4	2	1.7	5	5	40 %	7	6	48 %	2	2	5 %	4	1	1.7
Eliminator	2	2	1.7	6	8	53 %	6	7	50 %	1	1	0 %	6	7	4.0
Green Giant 27	2	2	1.8	2	2	18 %	3	4	34 %	8	9	58 %	4	1	1.5
Jubilee	9	9	5.3	5	5	41 %	8	7	53 %	8	9	70 %	4	2	1.8
Miracle	1	3	2.0	2	3	26 %	3	5	36 %	9	9	81 %	4	5	2.8
Prime Plus	3	3	2.2	5	8	51 %	2	2	15 %	9	9	92 %	6	7	4.8
Sensor	5	3	2.3	3	4	31 %	4	5	39 %	9	9	85 %	3	3	2.0
277A	3	4	2.5	5	5	41 %	5	5	41 %	9	9	83 %	3	3	2.0
Snow White	7	6	3.3	9	9	69 %	7	7	53 %	4	2	6 %	3		
Sum. Sweet 7631	3	3	2.2	6	8	54 %	2	2	17 %	8	9	75 %	2	1	1.5

Prior - reaction in previous years (1984-2003).

04 - reaction in 2004: 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible.

Rating - mean rating in 2004: 1 to 9 for Stewart's wilt and SLB; 0 to 100% severity of rust and NLB, 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 10 to 18 plants per row. All trials were planted at Champaign, IL. Seven trials were planted May 24 including: Stewart's wilt, avirulent rust, MDMV-A, SLB, and NLB race 0, NLB race 1 and NLB races 0&1. Three herbicide evaluations also were planted May 24. The D-virulent rust trial was planted May 18. The G-virulent rust and MDMV-B trials were planted June 20. One replicate of hybrids also were inoculated in a greenhouse trial with avirulent *P. sorghi* in order to identify hybrids with Rp-resistance.

Inoculation and disease assessment: The seven trials planted May 24 were inoculated with: *Erwinia stewartii* (Stewart's wilt), Rp1-D-avirulent isolates of *Puccinia sorghi* (i.e., the "old race" of rust), *Exserohilum turcicum* (NLB) races 0, 1 or 0 and 1, *Bipolaris maydis* and maize dwarf mosaic virus. Plants were inoculated with *E. stewartii* on June 18 and 21 by wounding leaves in the whorl and introducing bacteria into wounds. Suspensions of Rp1-D-avirulent *P. sorghi* urediniospores were sprayed into plant whorls June 16, 22, and 25. A mixture of conidia of races 0 and 1 of *E. turcicum* were sprayed into plant whorls June 21, 23 and July 1 in one of the NLB trials (races 0 & 1). In the other two NLB trials, conidia of either race 0 or race 1 were sprayed into whorls June 17 and 24 (race 0) or June 18, 23 and 29 (race 1). Plants were inoculated with MDMV-A on June 21, 23 and 29 using a tractor-mounted, solid-stream inoculator. In the trial inoculated with the "new race" of rust, urediniospores of Rp1D-virulent *P. sorghi* were sprayed into plant whorls June 14, 17, 21, 24. The G-virulent rust trial was planted June 20, and suspensions of urediniospores of RpG-virulent *P. sorghi* were sprayed into plant whorls July 9, 14, 19, 22, and 26. Plants in this trial also were infected naturally with MDM, primarily SCMV (MDMV-B).

Table 2. Criteria for classifying hybrid reactions to diseases in the 2004 nursery

	Classification of reaction									
	Rp 0	Resistant 1	Moderately resistant 2	Moderately resistant 3	Moderate 4	Moderate 5	Moderately susceptible 6	Moderately susceptible 7	Susceptible 8	Susceptible 9
Stewart's wilt (1-9)		≤1.5	<2	<2.5	2.5	≤3	≤3.75	≤4	≤4.5	>4.5
Rust avirulent (%)	*		<13	<20	<26	<33	<38	<43	<50	≥50
Rust D-virulent (%)	<2		<20	<29	<32.5	≤41.5	<46	<50	<60	≥60
Rust G-virulent (1-9)	<1		<4	≤4.5	≤5	≤6	≤6.5	≤7	≤7.5	>7.5
NLB race 0 (%)		<12	≤19	≤26	≤30	≤38	≤41	<50	<60	≥60
NLB races 0&1 (%)		≤14	≤19	<28	<36	<44	<50	<55	<60	≥60
NLB race 1 (%)		≤7	<14	<17.5	<22	≤34	<37	<43	<50	≥50
SLB (1-9)		≤1.5	≤1.75	≤2	≤2.6	<3	<4	<5	<6	≥6
MDM-A (%)		0	≤10	<25		<50				≥50
MDM-B (%)		≤10	≤21	≤33	<50	<60	<70	<75		≥75

Classification: Rp - Rp-resistance (greenhouse trials), 1 - resistant, 3 - moderately resistant, 5 - moderate, 7 - moderately susceptible, 9 - susceptible.

*Rust severity ranged from 0 to 51 % on Rp hybrids. Hybrids were identified as Rp based on responses in greenhouse trials and more severe rust in the D-virulent trial than in the avirulent trial (Fig. 1).

Hybrid reactions to Accent, Callisto, and Option were based on symptoms rated 7 and 21 days after application (see text).

by common rust was rated from 0 to 100% on July 29 (D-virulent trial) and on August 3 (avirulent trial). Rust was rated on a 1 to 9 scale in the G-virulent trial on September 6. Leaf area infected by the mixture of NLB races 0 and 1 was rated from 0 to 100% August 12, and leaf area infected by individual races of NLB was rated August 5-10. In the NLB race 0 and races 0&1 trials, hybrids with chlorotic lesions (i.e., Ht-resistance) were noted. SLB symptoms were rated on a 1 to 9 scale August 11.

Herbicide application and assessment: Post-emergence herbicides were applied 15 June when plants ranged from the 4- to 6-leaf stages and from about 8 to 12 inches. Environmental conditions at application were: overcast sky, 79 F air temperature, 79% relative humidity, 5 mph wind, soil surface moist. Herbicides were applied to half of each 12-ft row, thus leaving 6 ft of each row as a non-treated check. Accent was applied at 0.66 oz./A with a 0.25% v/v nonionic surfactant (NIS) and 2.5% UAN. Callisto was applied at 3.0 oz./A with 1% v/v crop oil concentrate (COC). Option was applied at 1.5 oz./A with MSO @ 1% and UAN @ 2.5%. The entire field had been treated pre-emergence with metachlor + atrazine.

Corn injury was rated visually as a percentage of the non-treated control 7 and 21 days after application (June 22 and July 6).

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), 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

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Stewart's wilt. Stewart's wilt was less severe in 2004 than in most of the previous nurseries. Ratings ranged from 1 to 5.5. Thirty-seven hybrids rated above 3.75 were classified as moderately susceptible to susceptible (7 to 9); and 213 hybrids rated from 2.5 to 3.75 were classified as moderate (4 to 6). Forty hybrids with ratings below 2 were not significantly different from Bonus, the hybrid with the least severe symptoms. Symptoms of Stewart's wilt on CrsuYP1-7, CrseWP2-40, GH 9597, Ex 08726117, Ex 08705353 and SVR 08735807 were rated 1.1 or 1.3. Stewart's wilt would not have had a substantial impact on the 41 hybrids classified as resistant or R/MR (1 or 2) or on 88 hybrids with ratings from 2 to 2.4 that were classified as moderately resistant (i.e., 3). Yield is affected minimally if Stewart's wilt infection is non-systemic, i.e., ratings < 3.

Common rust. Rust severity ranged from about 0 to 63% in the trial inoculated with avirulent rust and from 0 to 70% in the trial inoculated with *Rp1-D*-virulent rust. Yield usually decreases about 0.5% for each 1% leaf area infected by rust, i.e., rust severity. In the trial inoculated with G-virulent rust, ratings ranged from 0 to 8.3 (1 to 9 scale). A relatively high frequency of *Rp1-D*-virulent isolates occurred in the trial inoculated with avirulent isolates, as evident from rust severity ranging from 0 to 51% on Rp-resistant hybrids in the avirulent trial (Fig. 1). Based on chlorotic fleck reactions in a greenhouse trial inoculated with avirulent *P.*, 187 hybrids appeared to be Rp-resistant. In the trial inoculated with *Rp1-D*-virulent isolates, 28 hybrids were Rp-resistant. Apparently, the rust resistance in these hybrids is conveyed by an Rp gene other than or in addition to the *Rp1-D* gene. In the trial inoculated with *RpG*-virulent isolates, 13 hybrids were Rp-resistant. All 13 of these hybrids also were Rp-resistant in the avirulent and D-virulent trials.

For hybrids without Rp resistance, rust severity was similar in the trials inoculated with avirulent, D-virulent, and G-virulent *P. sorghi* (Fig. 1). Four non-

Rp hybrids (Ex 8282608, HMX 1382, Merlin, SVR 08726766) were rated R to MR (1 to 3) in all trials.

Northern leaf blight. NLB was very severe in all three trials. Severity ranged from 2% to 68% in the race 0 trial, from 1% to 55% in the race 1 trial and from 3% to 75% in the trial inoculated with both races. About 75% of the lesions on hybrids with an Ht gene were chlorotic in the trial inoculated with both races, therefore, race 0 must have been slightly more prevalent than race 1 in this trial. Although NLB severity (hybrid means) was highly correlated among trials ($r > 0.9$), reactions of hybrids were classified separately for each trial.

NLB severity was less than 10% in all three trials on three hybrids (Monte Blanc, Holiday, and HMX 1383). These hybrids were classified as resistant (1). Thirty-five additional hybrids were classified as resistant (1) or R/MR (2) in all three trials. These hybrids had less than 20% leaf area infected in the race 0 and race 0&1 trials and less than 15% leaf area infected in the race 1 trial. Effects of NLB on yield are minimal when NLB severity is below 20%.

Fifty-seven hybrids with 43% or more leaf area infected were classified as moderately susceptible to susceptible (7 to 9) in all three trials. An additional 42 hybrids were classified MS to S in at least two of the three trials.

Of the 93 hybrids classified MS to S in 2 of 3 trials, only 6 had chlorotic lesions in the trials inoculated with race 0 or both races. Thus, few of the most susceptible hybrids carried an Ht gene. All 38 hybrids classified R or R/MR had chlorotic lesions. All but three of the 31 hybrids that were classified MR or better in all three trials also were Ht-resistant. Severity of NLB averaged 20.7% for 135 hybrids with Ht-resistance and 40.8% for 244 hybrids without Ht-resistance in the race 0 trial (Fig. 2). In the trial inoculated with both races, NLB severity averaged 27% and 47.3% for hybrids with and without Ht resistance (Fig. 2). In the trial inoculated with race 1, NLB severity averaged 20.6% and 32.4%

for hybrids with and without Ht resistance (Fig. 2). Thus, in all three trials, resistance to NLB was greater for hybrids with the Ht gene. However, when most of the inoculum was race 1, the difference between hybrids with and without an Ht gene was only 12%; whereas when inocula was either all race 0 or a mixture of races 0 and 1, the difference between hybrids with and without the Ht gene was 20%.

Maize dwarf mosaic. Incidence of MDM-infected plants averaged 64% for the inoculated trial and 90% in the late-planted trial that was infected naturally. We believe that MDMV-A predominated in the inoculated trial, and MDMV-B (SCMV) or a closely related virus predominated in the naturally-infected trial.

Sixty-five hybrids were classified as resistant (1) in the trial inoculated with MDMV-A. None of those plants were infected with MDM. Eleven hybrids with 1 to 10% incidence of MDM-infected plants were classified as R/MR (2). Six hybrids with 11% to 25% incidence of MDM-infected plants were classified as MR (3). Ten hybrids with 25% to 50% MDM were classified as M (5). Hybrids with more than 50% MDM-infected plants were classified as susceptible (9). Most of the hybrids that were classified as resistant to moderate in this trial probably have the *Mdm1* gene or other genes for MDM resistance.

In the June20-planted trial that was infected naturally, five hybrids with less than 5% incidence of infected plants were classified R (1); nine hybrids with 6% to 21% incidence of infected plants were classified R/MR (2); and six hybrids with 22% to 33% infected plants were classified MR (3). All 20 of these hybrids were R to MR in the inoculated trial. Ten hybrids with 34% to 49% incidence were classified MR/M (4); seven hybrid with 50% to 59% incidence were classified M (5); and seven hybrids with 60% to 69% incidence were classified M/MS (6). Twenty-one of these 24 hybrids were classified R or R/MR in the inoculated trial. Five hybrids with 70% to 74% incidence were classified MS (7); four of which were R or R/MR in the inoculated trial. Hybrids with 75% or more infected plants were classified susceptible (9). Thirty-six of the hybrids that were susceptible in the naturally infected trial were R to MR in the inoculated trial. Apparently, some hybrids were resistant to MDMV-A and the virus that occurred naturally in the late trial; whereas other MDMV-A resistant hybrids had intermediate or susceptible reactions in the late trial.

Reactions to herbicides. Most hybrids were not affected by post-emergence applications of Accent, Callisto, or Option although a few hybrids were relatively sensitive (Table 4).

Accent. Crop injury from Accent included stunting and leaf chlorosis at 7 days after application, and death in severe cases 21 days after application. No symptoms of damage from Accent were observed on 73 hybrids. Symptoms were not obvious 21 days after application on an additional 291 hybrids for which injury 7 days after application ranged from 3% to 45%. Injury 7 and 21 days after application ranged from 10% to 35% for nine hybrids (170A, 277A, Argent, Celestial, CshBF3-122, Empire, GH 2669, HMX 4379 BES, and Mystique). Injury to three hybrids (Double Gem, GH 2298 and Supersweet Jubilee Plus) ranged from 20% to 50% 7 and 21 days after application. Three hybrids (CrshYP3-112, EX 08705770 and Kahuna) had more than 70% injury 21 days after application.

Callisto. Crop injury from Callisto was characterized by temporary bleaching of newly emerged leaves. There were no symptoms of damage from Callisto on 135 hybrids. Symptoms of Callisto damage were not evident 21 days after application for another 224 hybrids for which the amount of injury 7 days after application ranged from 3% to 25%. Four hybrids (178A, CshYP3-112, Hollywood, and XTH 2477) had 30% to 35% injury 7 days after application, but recovered by 21 days after application. Injury was 40% or more 7 days after application and 10% or more 21 days after application for three hybrids (El Toro, Ex 08705770, and Kahuna).

Option. Crop injury from Option included leaf chlorosis at 7 days after application. For a few hybrids, stunting was severe 21 days after application. Symptoms were evident on all but three hybrids 7 days after application, but injury was not evident on most hybrids 21 days after application. Three hybrids (CrshYP3-112, EX 08705770 and Kahuna) had at least 30% injury 7 days after application and at least 50% injury 21 days after application. Three hybrids (El Toro, GSS 6314, and XTH 2477) had 30% to 35% injury 7 days after application and 10% to 20% injury 21 days after application.

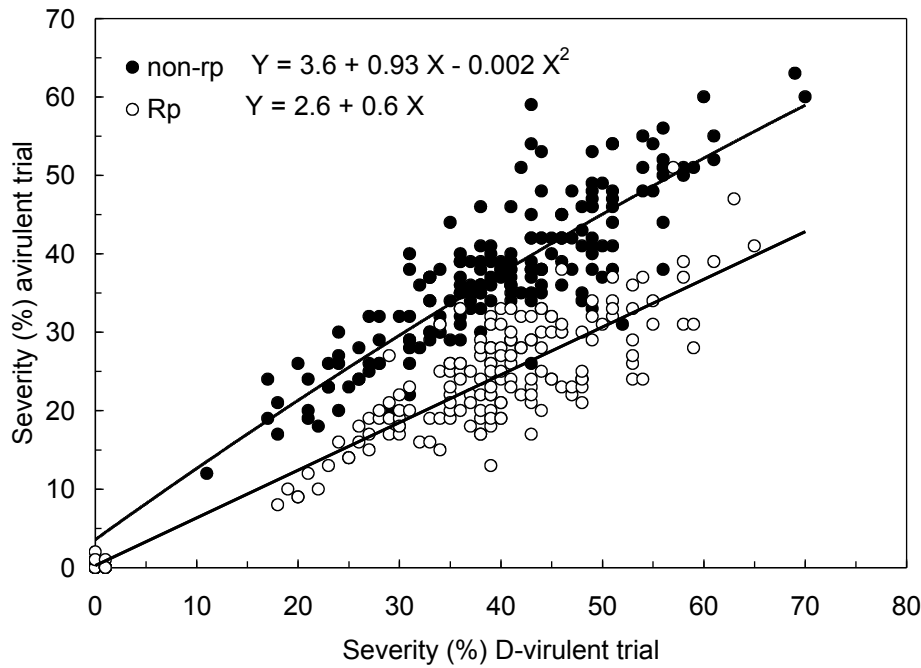


Figure 1. Severity (% leaf area infected) of common rust on sweet corn hybrids with and without Rp-resistance in trials inoculated with *Puccinia sorghi* that was avirulent or virulent against the *Rp1-D* gene. Based on the severity of rust on hybrids with *Rp1-D* in the trial inoculated with avirulent *P. sorghi*, we estimate that about half of the inoculum was D-virulent. Each data point is based on the mean of two replicates in each trial for each hybrid.

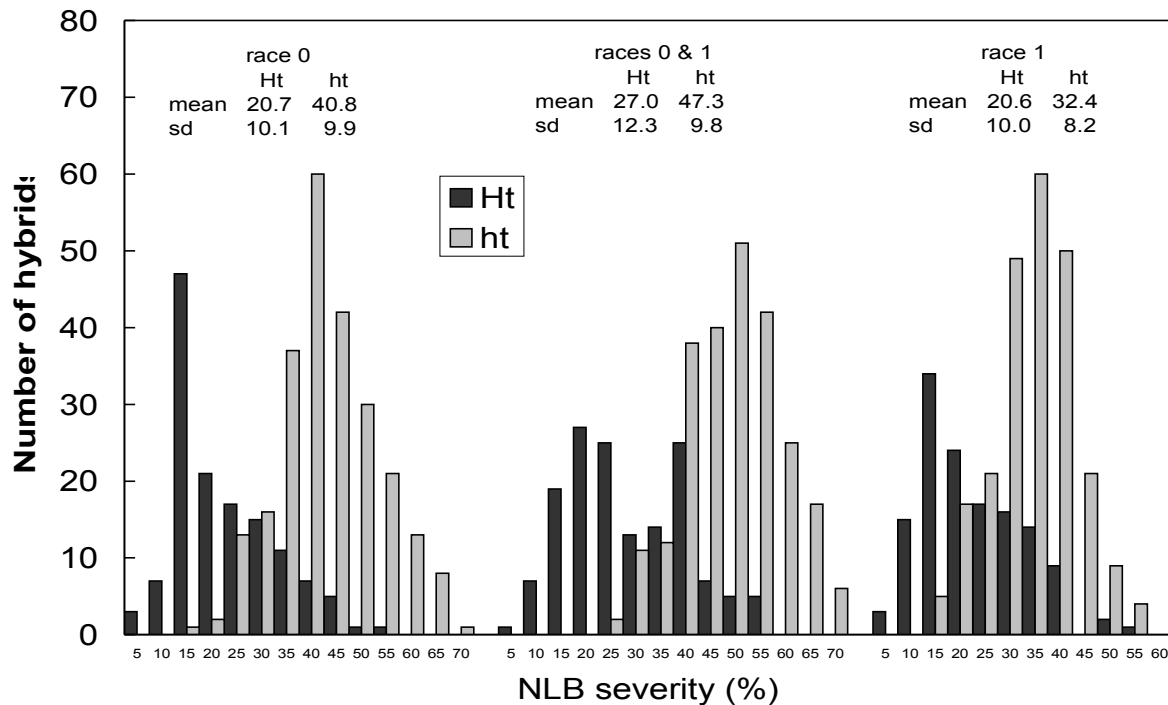


Figure 2. Distributions of severity (% leaf area infected) of northern leaf blight (NLB) on sweet corn hybrids with and without Ht-resistance in trials inoculated with *Exserohilum turcicum* race 0, races 0&1, or race 1. Plants with an *Ht* gene that were infected with race 0 had chlorotic lesions.

Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2004

ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight				
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		Ht	race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate		Rxn	Rate	Rxn	Rate	Rxn	Rate		
Sugary hybrids																										
su	Y	SnRv	Bliss	9	78	9	100	2	1.8	Rp	30	7	48	7	6.8	6	41	6	49	5	32	4	2.5			
su	Y	Rog	Bold	1	0	6	60	1	1.5	Rp	41	9	65	9	8.3	3	26	4	35	4	22	4	2.3			
su	Y	Rog	Bonus	1	0	4	45	1	1	Rp	13	5	39	3	4	Ht	5	32	5	36	5	31	8	5.5		
suse	Y	Sem	Chase	9	80	9	100	7	3.8	5	32	4	30		5	37	7	52	6	34	1	1.5				
su	Y	HM	Coho (HMX 7384)	5	36	9	96	8	4.3	Rp	23	4	31	3	4.3	8	57	7	53	8	49	6	3			
su	Y	Cr	CSUYP1-1	1	0	2	18	2	1.8	Rp	25	5	35	4	4.8	7	44	7	54	7	38	6	3.5			
su	Y	Cr	CSUYP1-2	1	0	3	30	2	1.7	Rp	28	5	39	5	5.3	8	53	7	53	7	41	5	2.8			
su	Y	Cr	CSUYP1-7	9	93	9	100	1	1.3	Rp	29	5	41	7	7	3	20	4	29	3	14	3	2			
su	Y	Cr	CSUYP2-28	2	5	3	25	3	2.2	Rp	15	3	27	3	4	7	43	8	56	7	40	6	3.5			
su	Y	Cr	CSUYP3-79	1	0	4	47	3	2	Rp	20	4	31	3	4.5	7	43	7	51	7	37	1	1.5			
su	Y	Cr	CSUYP3-83	9	69	9	100	5	3	Rp	16	3	26	4	5	5	36	5	41	5	26	1	1.3			
su	Y	HM	Dynamo	1	0	9	81	5	2.7	Rp	19	5	39	4	4.8	7	49	8	55	8	46	6	3			
su	Y	Cr	Earlivee	9	88			6	3.7	8	45	6	43		7	42	6	49			7	4				
suse	Y	Sem	El Toro	2	5	7	71	2	1.7	Rp	27	5	40	7	6.8	7	42	6	48	6	34	1	1.5			
su	Y	Cr	Eliminator	1	0	7	70	2	1.7	Rp	29	8	53	7	6.8	6	39	7	50	5	32	7	4			
su	Y	SnRv	Empire	9	67	9	100	5	3	6	36	5	38	5	5.3	7	49	8	56	7	38	5	2.8			
su	Y	Sem	Ex 08302418	9	65	9	100	3	2.2	Rp	9	2	20	3	4.3	Ht	2	18	3	26	4	19	6	3.5		
su	Y	Sem	Ex 08705353	3	23	9	100	1	1.3	Rp	19	3	27	5	5.5	Ht	5	32	5	39	5	31	7	4.8		
su	Y	Sem	Ex 08705627	5	31	9	100	3	2	Rp	18	4	30	3	4.3	Ht	2	17	4	32	5	25	2	1.8		
su	Y	Sem	Ex 08705640	9	88	9	100	5	2.8	Rp	25	5	36	6	6.3	Ht	4	27	5	36	5	23	4	2.5		
suse	Y	Sem	Ex 08716607	9	82	9	100	5	2.8	Rp	26	5	35			5	32	5	40	5	31	2	1.8			
su	Y	Sem	Ex 08726117	5	30	9	100	1	1.3	Rp	20	3	28	6	6.3	Ht	5	33	5	40	5	30	8	5.5		
su	Y	Sem	Ex 8282608	9	78	9	100	5	2.7	3	18	3	22	3	4.5	6	39	6	48	7	39	4	2.5			
su	Y	Sem	Ex 8482608	9	66	9	100	5	2.7	4	23	3	23	5	5.3	8	51	8	59	8	44	5	2.8			
su	Y	Sem	Ex 8490239	9	97	9	100	5	3	Rp	26	8	53	5	6	9	61	9	65	8	45	2	1.8			
su	Y	GG	GG Code 123	9	54	9	100	5	3	6	36	5	41	6	6.3	8	51	8	58	6	36	7	4.3			
su	Y	GG	GG Code 124	1	0	9	96	7	3.8	Rp	20	5	35	4	5	5	35	5	42	5	30	3	2			
su	Y	GG	GG Code 127	1	0	9	100	3	2.2	Rp	19	3	29	3	4.5	5	37	6	46	5	29	1	1.3			
su	Y	GG	GG Code 128	1	0	9	100	2	1.8	Rp	19	5	33	4	4.8	6	41	5	41	5	31	1	1.3			
su	Y	GG	GG Code 139	9	67	9	100	6	3.2	Rp	0	Rp	1	4	5	9	61	9	68	7	42	3	2			
su	Y	GG	GG Code 144	2	3	7	70	9	4.7	Rp	15	5	34	2	3.8	4	30	5	39	5	27	1	1.5			
su	Y	GG	GG Code 146	1	0	9	88	6	3.2	Rp	0	Rp	1	2	3.8	5	36	5	41	5	29	1	1.3			
su	Y	GG	GG Code 148	1	0	5	54	3	2	Rp	0	Rp	0	Rp	0	6	39	5	42	5	32	1	1.3			
su	Y	GG	GG Code 150	9	82	9	77	8	4.5	Rp	23	6	43	7	6.8	8	53	8	58	7	37	6	3			
su	Y	GG	GG Code 151	9	94	9	94	6	3.5	Rp	19	5	40	5	5.5	8	55	9	63	7	41	7	4.8			
su	Y	GG	GG Code 152	9	75	9	100	4	2.5	Rp	18	4	30	3	4.5	7	43	6	48	6	34	6	3			

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ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight			
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate		
su	Y	GG	GG Code 153	1	0	9	96	5	2.8	5	26	4	31	5	5.3	5	38	6	48	5	33	1	1.5		
su	Y	GG	GG Code 154	1	0	9	81	3	2	5	31	5	34	6	6.3	6	41	6	49	7	38	6	3.5		
su	Y	GG	GG Code 27	9	58	9	85	2	1.8	4	21	2	18	3	4	4	28	4	34	4	19	1	1.5		
su	Y	GG	GG Code 3	9	94	9	100	5	2.8	7	38	6	43	6	6.5	7	48	8	58	6	35	9	6.5		
su	Y	GG	GG Code 62	9	60	9	100	2	1.7	Rp	17	3	27	2	3	Ht	2	14	3	27	2	11	4	2.3	
su	Y	GG	GG Code 82	9	68	9	100	3	2.3	3	16	3	24	2	3.8	5	36	5	43	4	20	2	1.8		
su	Y	GG	GG Code 99	9	52	9	100	2	1.8	4	22	4	31	5	5.5	Ht	2	19	3	26	4	20	1	1.5	
su	Y	Rog	GH 0991	1	0	2	17	3	2.3	Rp	0	Rp	0	Rp	0	5	32	5	36	5	26	2	1.8		
su	Y	Rog	GH 1829	9	86	9	100	5	2.7	Rp	0	Rp	0	2	3.3	6	39	5	42	5	30	6	3.5		
su	Y	Rog	GH 2042	9	76	9	96	8	4.2	Rp	0	Rp	1	5	5.5	9	64	9	65	9	55	2	1.8		
su	Y	Rog	GH 2298	1	0	5	50	9	4.8	Rp	0	Rp	1	Rp	0.3	7	44	6	49	8	47	2	1.8		
su	Y	Rog	GH 2669	2	5	3	27	5	3	Rp	0	Rp	0	2	2.8	Ht	3	25	4	29	5	23	6	3	
su	Y	Rog	GH 5703	1	0	6	68	4	2.5	Rp	1	Rp	1	5	5.8	Ht	3	25	4	31	4	20	4	2.5	
su	Y	Rog	GH 5704	1	0	9	77	4	2.5	Rp	1	Rp	0	5	5.5	Ht	4	28	4	35	5	24	1	1.5	
su	Y	Rog	GH 6198	1	0	9	95	6	3.7	Rp	0	Rp	1	5	6	Ht	5	34	6	48	8	47	4	2.3	
su	Y	Rog	GH 6333	9	59	9	91	6	3.7	Rp	0	Rp	1	3	4.5	8	59	8	58	8	48	6	3.3		
su	Y	Rog	GH 6631	1	0	9	88	6	3.5	Rp	0	Rp	0	Rp	0	7	47	7	52	6	36	4	2.5		
su	Y	Rog	GH 9589	1	0	3	31	6	3.2	Rp	2	Rp	0	Rp	0.3	7	48	6	44	7	38	4	2.5		
su	Y	Rog	GH 9590	2	5	5	53	6	3.2	Rp	0	Rp	0	Rp	0	8	51	6	49	8	45	2	1.8		
su	Y	Rog	GH 9597	1	0	4	47	1	1.2	Rp	1	Rp	0	Rp	0	Ht	5	32	5	36	5	29	7	4.8	
su	Y	HM	HMX 1382	1	0	4	41	2	1.8	3	19	3	24	3	4.3	Ht	2	17	4	30	3	17	1	1.5	
su	Y	HM	HMX 1383	3	11	3	32	2	1.7	Rp	13	3	23	2	3	Ht	1	9	1	9	1	6	1	1.5	
su	Y	HM	HMX 2386	9	91	9	100	5	3	Rp	0	Rp	0	2	3.8	8	54	7	50	8	48	6	3.5		
su	Y	HM	HMX 4394	9	85	9	100	7	3.8	7	38	8	51	7	7	6	41	7	53	7	39	6	3.5		
su	Y	Cr	Intrigue	9	79	9	100	3	2.2	Rp	14	3	25	6	6.3	7	46	8	59	6	36	7	4.3		
su	Y	Rog	Jubilee	9	70	9	100	9	5.3	6	34	5	41	5	5.3	8	51	7	53	8	47	2	1.8		
su	Y	HM	Kokanee (HMX 0395)	9	59	9	100	5	2.8	Rp	9	2	20	3	4.3	9	61	9	66	9	53	5	2.8		
su	Y	HM	Legacy	9	80	9	100	6	3.7	Rp	20	4	30	3	4.3	8	58	9	68	9	54	7	4		
su	Y	HM	Lumina	9	92	9	76	8	4.5	Rp	17	6	43	5	5.5	Ht	6	41	7	54	8	46	8	5	
su	Y	Sem	Merkur	1	0	9	100	2	1.8	Rp	19	5	35	6	6.3	Ht	2	15	3	25	3	16	8	5.8	
suse	Y	Sem	Powerhouse	1	0	9	84	8	4.5	Rp	22	7	47	4	5	4	29	5	42	5	31	4	2.3		
su	Y	SnRv	Prelude	9	79	9	100	6	3.2	7	38	6	43	4	5	8	51	9	65	8	48	6	3.5		
su	Y	SnRv	Punch	9	76	9	100	5	2.8	6	35	5	38	4	5	6	41	6	48	6	35	7	4		
su	Y	HM	Sockeye	9	64	9	93	3	2.3	Rp	10	2	19	3	4	9	63	9	66	9	55	6	3.3		
su	Y	Sem	SVR 08402333	5	46	9	100	5	2.8	Rp	14	3	25	5	5.3	7	47	6	47	6	35	1	1.3		
su	Y	Sem	SVR 08716567	5	42	9	100	3	2	4	24	3	26	3	4.5	Ht	2	15	3	22	3	16	2	1.8	
su	Y	Sem	SVR 08726088	2	5	9	100	4	2.5	Rp	12	3	21	3	4	Ht	1	11	2	19	2	9	4	2.3	

Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2004

ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight				
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		Ht	race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate		Rxn	Rate	Rxn	Rate	Rxn	Rate		
su	Y	Sem	SVR 08726106	5	26	9	100	2	1.7	Rp	18	3	26	5	5.5	Ht	3	24	4	35	4	22	6	3.3		
su	Y	Sem	SVR 08726766	9	74	9	100	3	2.2	3	17	2	18	3	4.5	5	31	4	35	4	22	6	3			
su	Y	Sem	SVR 08726795	3	20	9	100	3	2.2	7	38	6	44	5	6	8	55	9	63	7	42	8	5.5			
su	Y	Sem	SVR 08735596	1	0	1	6	4	2.5	Rp	17	5	38	2	3.5	Ht	6	41	5	43	6	34	4	2.5		
su	Y	Sem	SVR 08735674	1	0	1	3	5	2.7	Rp	19	5	38	4	5	6	39	6	46	5	31	6	3.3			
su	Y	Sem	SVR 08735807	1	0	1	3	1	1.3	Rp	10	3	22	2	3.3	Ht	3	23	4	32	5	26	8	5		
su	Y	Sem	SVR 08735814	1	0	2	13	1	1.5	5	27	3	29	4	4.8	Ht	2	15	3	25	4	19	6	3.8		
su	Y	SnRv	UY 060703	9	86	9	100	6	3.2	Rp	24	5	36			8	50	8	59	7	39	9	6.5			
su	Y	SnRv	UY 065703	9	82	9	100	6	3.5	5	30	5	34	5	5.3	8	56	8	55	7	41	6	3.5			
su	Y	SnRv	UY 072103	1	0	1	8	4	2.5	Rp	19	5	34	3	4	7	42	7	51	7	39	5	2.8			
su	BC	Cr	Quickie	9	71	9	100	6	3.5	9	53	7	49			9	67	8	58	7	40	9	6.5			
su	W	GG	GG Code 155	9	71	9	100	5	2.7	5	26	3	27	5	5.3	7	43	7	54	7	39	4	2.5			
Sugary enhancer hybrids																										
syn	Y	Cr	Applause	9	91	9	96	5	2.8	5	33	5	36	5	6	6	41	6	48	5	27	6	3.3			
se	Y	Cr	Bodacious	9	97	9	100	5	2.8	6	35	5	41	7	7	6	39	6	47	5	28	6	3.3			
se	Y	Cr	CSEYP1-25	9	91	9	100	3	2.3	Rp	25	5	39	6	6.3	5	38	8	55	6	36	7	4.8			
se	Y	Cr	CSEYP1-3	9	83	9	100	4	2.5	Rp	25	5	37	7	7	7	46	8	56	7	40	9	6			
se	Y	Cr	CSEYP1-5	9	100	9	100	6	3.3	6	34	5	33	8	7.3	7	48	8	56	8	44	8	5.5			
sesu	Y	Sem	Ex 8452067	3	12	9	96	4	2.5	Rp	23	5	35	5	6	8	55	9	63	8	49	6	3.5			
sesy	Y	Sem	Ex 9330109	9	68	9	94	5	3	6	35	6	42			5	36	5	43	5	31	4	2.3			
se	Y	Rog	GH 6510	9	75	9	100	3	2.3	7	39	5	36	7	7	7	45	8	55	6	36	3	2			
se	Y	Rog	Honey Select	9	66	9	100	6	3.3	6	37	5	33	5	5.8	Ht	8	55	7	50	9	51	3	2		
se	Y	Cr	Incredible	9	94	9	100	2	1.8	5	26	3	28	3	4.5	7	44	6	49	5	32	6	3.8			
se	Y	MM	Merlin	9	94	9	100	3	2	3	19	2	17	3	4.5	3	25	5	36	5	26	1	1.3			
se	Y	Cr	Miracle	9	81	9	100	3	2	4	24	3	26	3	4.5	5	35	5	36	5	25	5	2.8			
se	Y	MM	Ogunquit (26058)	9	64	9	100	5	3	9	50	8	56	5	5.5	7	42	6	45	5	31	2	1.8			
se	Y	Cr	Sugar Buns	9	81	9	100	7	3.8	7	38	5	41	7	7	5	37	5	43	4	22	2	1.8			
se	Y	Sem	SVR 08424342	9	86			5	3	7	42	6	43			7	49	9	65	6	35	7	4			
sesu	Y	Sem	SVR 08725803	9	85	9	100	3	2	Rp	25	5	40	5	5.5	Ht	4	27	5	37	5	31	7	4		
se	Y	Sem	SVR 08725892	9	78	9	100	6	3.2	Rp	25	5	34			8	54	9	60	7	38					
se	BC	Sem	Absolute	9	67	9	100	3	2.3	6	34	5	35	3	4.5	5	36	6	47	5	27	4	2.5			
se	BC	MM	Accord	9	86	9	100	3	2.2	5	30	5	38	6	6.5	3	22	4	30	3	15	1	1.5			
se	BC	Cr	Ambrosia	9	81	9	100	1	1.5	6	36	5	38	6	6.5	5	38	6	46	5	26	5	2.8			
se	BC	Rog	BC 0805	9	62	9	100	6	3.7	Rp	21	3	29	5	5.3	7	42	7	53	6	34	3	2			
se	BC	Rog	BC 0808	9	80	9	100	5	2.8	Rp	0	Rp	0	8	7.3	6	39	8	59	7	37	2	1.8			
se	BC	Rog	BC 1136	9	54	9	100	5	2.7	6	37	5	33	7	7	4	28	5	38	3	15	2	1.8			
syn	BC	Cr	Bojangles	9	91	9	100	5	3	6	36	5	38	7	7	6	39	6	46	5	28	6	3.5			

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ET	KC SC	Hybrid	Maize dwarf mosaic				Stewart's		Common rust						Northern leaf blight						Southern	
			MDMv-A		SCMV		wilt		avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		leaf blight	
			Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate
syn	BC Cr	Bravado	9	83	9	100	3	2.2	5	29	4	31	4	5	6	40	6	47	5	28	4	2.3
se	BC MM	Brocade TSW	9	96	9	90	3	2.2	6	34	5	33	5	6	3	22	3	27	3	17	4	2.5
se	BC MM	Buccaneer (MXH 11337)	9	65	9	100	3	2.2	9	54	8	55			6	41	5	41	5	28	1	1.5
se	BC MM	Buckeye	9	100	5	59	2	1.8	5	26	3	24	7	6.8	5	33	4	30	3	17	6	3.3
syn	BC Cr	Cameo	9	91	9	100	3	2.2	4	23	3	25	3	4.5	5	34	5	42	4	22	4	2.3
syn	BC Cr	Charmed	9	90	9	100	3	2.2	5	32	5	34	7	6.8	6	39	5	41	5	27	3	2
se	BC Cr	Delectable	9	86	9	100	3	2	4	24	3	21	5	5.5	5	33	5	39	5	26	4	2.3
se	BC MM	Double Gem	9	85	9	100	6	3.2	7	38	5	34			3	22	4	32	3	16	1	1.3
se	BC Sem	Ex 08725441	5	42			7	3.8	9	54	8	51			7	48	6	45				
sesy	BC Sem	Ex 08725994	9	82			5	2.7	9	56	8	56			6	41	6	47				
se	BC Sem	Ex 8487249	2	3	9	100	6	3.3	4	20	3	29	5	5.8	5	35	5	43	5	33	3	2
se	BC MM	Exp 11467	9	71	9	100	2	1.7	5	26	2	20	5	6	7	42	6	48	5	33	3	2
se	BC MM	Exp 11685	9	95	9	100	3	2.2	2	12	2	11	5	5.3	3	22	4	30	4	20	1	1.5
se	BC Cr	Fleet	9	54			6	3.5	8	46	5	38			9	63	9	60				
syn	BC Cr	Frisky	9	88			6	3.3	7	41	5	38			9	65	9	69				
sb	BC HM	HMX 2370 BES	9	64			8	4.2	9	55	8	54			6	40	5	42	5	28	8	5.5
sb	BC HM	HMX 4379 BES	9	79			6	3.7	7	39	5	38			8	50	7	53	7	38	5	2.8
sb	BC HM	HMX 4380 BES	9	85	9	100	4	2.5	8	46	7	49	5	5.5	3	22	4	32	4	19	5	2.8
sb	BC HM	HMX 4381 BES	9	53	9	100	4	2.5	7	38	5	40	9	7.8	6	40	7	50	5	29	4	2.5
syn	BC Cr	Kristine	5	49	9	100	5	2.7	6	37	5	33			7	43	6	45	5	27	1	1.5
se	BC MM	Lancelot	9	85	6	64	3	2	4	24	2	17	5	5.5	3	26	3	27	4	19	6	3.3
se	BC MM	Luscious	9	85	9	100	6	3.3	7	40	5	36			5	34	5	36	5	26	4	2.5
se	BC MM	Montauk (1014)	9	79	9	93	4	2.5	8	48	6	44	8	7.5	7	43	7	53	6	36	9	6
se	BC Cr	Mystique	9	73	9	100	3	2	7	41	7	48			2	19	4	33	3	15	6	3.5
se	BC MM	Nantasket (1074)	9	74	9	100	6	3.2	8	48	7	49			4	29	5	40	5	26	4	2.5
se	BC MM	Nauset (1009)	9	84	9	100	1	1.5	3	19	3	21	5	5.3	7	45	8	55	7	42	8	5.8
syn	BC Cr	Polka	9	92			6	3.5	9	59	6	43			8	50	9	63	6	34	3	2
se	BC MM	Precious Gem	9	90	9	100	3	2.3	4	20	3	21	6	6.3	3	24	4	29	4	22	1	1.5
sb	BC HM	Renaissance (HMX 0351B)	9	63			8	4.3	9	53	6	44			9	60	9	64	8	44	8	5.8
se	BC Sem	Sensor	9	85	9	100	3	2.3	5	29	4	31	5	5.5	4	28	5	39	5	29	3	2
se	BC Sem	SVR 08725362	1	0	4	45	4	2.5	Rp	29	6	43	5	5.5	5	38	5	42	5	27	7	4.5
se	BC Sem	SVR 08725451	9	83			9	4.7	7	39	5	39			7	45	7	53			4	2.5
se	BC Cr	Trinity	9	85			6	3.3	9	54	6	43			8	53	8	55				
syn	W Cr	Alexis	9	74	9	100	5	2.7	5	29	5	35	6	6.3	5	38	5	39	5	26	5	2.8
se	W Cr	Argent	9	62	9	100	3	2	5	26	3	28	6	6.5	5	31	5	36	5	23	5	2.8
se	W Rog	Avalon	9	94	9	100	8	4.2	Rp	22	4	30	4	4.8	6	39	6	47	5	29	2	1.8
syn	W Cr	Celestial	9	71	9	100	1	1.5	5	28	4	32	5	6	5	32	5	37	5	24	4	2.3

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ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight				
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		Ht	race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate		Rxn	Rate	Rxn	Rate	Rxn	Rate		
syn	W	Cr	Cinderella	9	79	9	100	5	2.8	5	29	3	28	7	7	5	35	5	40	5	23	1	1.5			
se	W	MM	Cloud Mine TSW	9	100	9	100	1	1.5	5	27	3	24	6	6.5	3	24	3	27	4	19	4	2.3			
se	W	Cr	CSEWP2-40	9	81	9	100	1	1.3	Rp	28	5	39	5	5.5	3	25	4	35	3	17	4	2.5			
se	W	Sem	Ex 08716630	9	56	9	100	3	2.3	Rp	32	8	51	5	6	2	15	3	27	3	14	6	3.8			
se	W	Sem	Ex 08725633	9	100	9	100	3	2.3	8	48	8	55	7	7	6	41	7	54	5	32	4	2.5			
se	W	Sem	Ex 8446457	9	79	9	100	6	3.2	6	35	5	38			9	61	9	65	8	46	6	3.5			
se	W	MM	Exp W 20465	9	86	9	100	6	3.3	7	42	6	43			5	32	6	46	5	33	2	1.8			
se	W	MM	Exp W 20903	9	63	9	100	3	2	5	26	3	23	4	4.8	3	23	3	27	4	19	6	3.5			
se	W	Cr	Frosty	9	68			5	3	8	44	5	35	8	7.5	8	50	9	63	6	35	4	2.3			
sb	W	HM	HMX 4382 WES	9	50	9	100	6	3.3	9	52	8	56			5	36	6	45	5	33	3	2			
se	W	MM	Imaculata	9	72	9	100	2	1.8	5	32	3	27	2	3.5	3	23	3	25	3	16	4	2.5			
se	W	MM	Misquamicut (2019)	9	68	9	100	5	3	7	39	6	43	7	7	5	37	5	42	5	30	7	4.3			
se	W	MM	Sugar Pearl (MXH 20616)	9	70	9	100	6	3.3	6	35	5	36	5	5.5	5	38	5	40	5	29	6	3			
se	W	Sem	SVR 08725655	9	79	9	100	5	2.7	4	25	3	27	7	6.8	5	35	5	39	4	20	6	3.3			
se	W	Cr	Venus (CSEWF1-13)	9	50	9	100	6	3.3	9	51	6	42	7	7	7	44	9	61	5	29	1	1.5			
se	W	Rog	WH 0807	1	0	9	100	6	3.2	Rp	32	6	45	6	6.5	6	39	6	48	5	29	6	3			
Shrunken-2 hybrids																										
sh2	Y	IFS	170A (XTH1170)	9	93	9	100	6	3.5	7	40	6	45	5	5.5	8	56	8	56	7	42	7	4.5			
sh2	Y	IFS	173A (XTH 1173)	9	84	9	100	5	3	6	34	5	37	7	7	8	54	8	55	7	42	2	1.8			
sh2	Y	Cr	175 A	9	90	9	100	5	3	7	42	6	45	5	6	6	39	6	44	5	32	8	5.8			
sh2	Y	Cr	178 A	9	100	9	100	6	3.7	8	47	7	49	6	6.3	Ht	5	38	6	48	5	29	7	4		
sh2	Y	IFS	180A (XTH 1180)	9	81	9	88	3	2.2	Rp	23	5	39	5	5.8	Ht	2	15	2	15	3	17	1	1.5		
sh2	Y	IFSI	182 A	9	97	9	100	3	2	Rp	20	5	38	4	4.8	Ht	1	11	2	19	2	12	1	1.5		
sh2	Y	AC	ACX 1074 Y	9	96	9	100	5	3	9	54	8	51			Ht	5	35	7	51	5	29	4	2.5		
sh2	Y	AC	ACX 1079 Y	9	87	9	100	5	2.8	6	37	5	41	6	6.5	Ht	5	36	6	49	5	33	4	2.5		
sh2	Y	Sem	Basin	1	0	6	64	6	3.2	Rp	32	6	45	5	6	6	40	6	46	7	37	5	2.8			
sh2	Y	Sem	Challenger	9	87	9	100	4	2.5	5	31	8	52	6	6.5	Ht	3	22	4	32	5	23	1	1.5		
sh2	Y	Cr	CNS 710 R	9	74	9	84	4	2.5	Rp	24	7	48	4	4.8	Ht	3	26	5	37	5	24	1	1.5		
sh2	Y	Cr	CNS 710A R	9	97	9	100	4	2.5	Rp	20	6	44	4	4.8	Ht	2	14	3	20	3	17	2	1.8		
sh2	Y	SnRv	Columbia	9	88	9	100	4	2.5	6	36	5	38	5	6	Ht	2	19	3	24	2	9	1	1.5		
sh2	Y	Cr	CSHYP2-57	9	84	7	70	5	3	Rp	28	6	42	5	5.5	Ht	3	24	4	33	5	25	2	1.8		
sh2	Y	Cr	CSHYP2-78	9	67	9	100	3	2.2	Rp	30	7	46	5	5.3		5	36	5	41	5	31	6	3		
sh2	Y	Cr	CSHYP3-102	9	82	9	100	3	2.3	Rp	26	5	36	5	5.8	Ht	2	14	3	23	3	16	1	1.3		
sh2	Y	Cr	CSHYP3-112	9	89	9	100	5	3	6	37	5	39	5	5.5		5	38	5	42	5	30	2	1.8		
sh2	Y	HM	Day Star	9	87	9	100	5	2.7	8	46	8	51	7	6.8	Ht	1	11	2	19	1	3	1	1.5		
sh2	Y	IFS	Early Illini	9	85	9	100	5	2.7	7	39	8	58	7	6.8	Ht	5	33	5	40	5	32	4	2.3		
shsy	Y	Sem	Ex 08413049	9	82	9	100	5	3	7	42	7	49	6	6.5		5	33	5	41	5	27	6	3.3		

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ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight				
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		Ht	race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate		Rxn	Rate	Rxn	Rate	Rxn	Rate		
sh2	Y	Sem	Ex 08705808	1	0	9	100	5	3	Rp	36	8	53	5	5.8		8	50	9	61	8	43	7	4		
sh2	Y	Sem	Ex 08716636	2	5	9	88	6	3.3	Rp	30	6	44	5	5.8	Ht	2	17	4	31	4	22	1	1.5		
shsy	Y	Sem	Ex 08717180	1	0	9	88	5	2.7	Rp	28	5	38	4	5	Ht	3	24	4	35	5	28	6	3		
sysy	Y	Sem	Ex 08725226S	9	100	9	100	2	1.8	7	38	5	40	5	5.5	Ht	4	27	5	40	5	31	7	4		
sh2	Y	Sem	Ex 08736049	2	9	2	12	6	3.3	Rp	0	Rp	0	Rp	0	Ht	2	17	3	28	4	22	1	1		
sh2	Y	Sem	Ex 08736072	1	0	1	0	5	2.8	Rp	0	Rp	0	Rp	0	Ht	5	35	5	40	7	40	6	3		
shsy	Y	Sem	Ex 08736093	9	85	9	100	4	2.5	6	37	5	36	7	6.8	Ht	2	14	2	18	3	14	3	2		
sh2	Y	Sem	Ex 8462518	9	83	9	100	5	2.7	7	41	7	49	7	7	Ht	3	26	4	35	6	36	1	1.5		
sh2	Y	Sem	Ex 9381178	9	100	9	100	4	2.5	6	37	5	40	5	6	Ht	3	22	5	36	4	22	2	1.8		
sh2	Y	GG	GG Code 107	9	90	9	100	3	2	Rp	25	7	48	8	7.3		5	33	5	37	5	26	1	1.5		
sh2	Y	GG	GG Code 141	9	83	9	100	3	2.3	Rp	20	5	36	5	5.8		5	33	5	37	5	29	1	1.3		
sh2	Y	GG	GG Code 156	1	0	2	18	4	2.5	Rp	16	4	32	4	4.8		3	25	3	25	4	18	4	2.3		
sh2	Y	GG	GG Code 157	9	97	9	100	8	4.3	8	47	8	51	7	7		5	37	6	47	6	36	4	2.5		
sh2	Y	GG	GG Code 158	9	92	9	100	8	4.2	Rp	37	8	58	9	7.8		6	41	6	49	7	38	4	2.3		
sh2	Y	GG	GG Code 159	9	79	9	89	5	3	7	39	5	40	7	7		5	35	5	37	5	30	1	1.5		
sh2	Y	SnRv	GoldenSweet Improved	9	97	9	100	7	4	Rp	28	6	42	5	6		7	48	7	54	6	36	1	1.5		
sh2	Y	Rog	GSS 1303	9	94	9	100	6	3.2	Rp	31	5	39	5	5.5	Ht	2	19	3	28	3	16	6	3		
sh2	Y	Rog	GSS 3365	9	90	9	93	5	2.7	Rp	0	Rp	0	5	5.8	Ht	2	12	2	16	3	14	4	2.5		
sh2	Y	Rog	GSS 4165	9	87	9	100	5	2.7	7	39	5	36	7	6.8	Ht	7	45	7	54	7	39	6	3.3		
sh2	Y	Rog	GSS 5035	9	79	9	100	5	3	6	36	5	39	6	6.5	Ht	3	25	4	29	4	19	1	1.5		
sh2	Y	Rog	GSS 6314	1	0	9	82	3	2.2	Rp	0	Rp	0	Rp	0	Ht	1	4	1	7	2	8	5	2.8		
sh2	Y	Rog	GSS 7164	9	85	9	87	4	2.5	Rp	0	Rp	0	2	3.8	Ht	3	20	3	28	4	19	3	2		
sh2	Y	Rog	GSS 8357	9	90	9	100	5	2.8	Rp	31	7	46	6	6.3	Ht	2	13	1	12	2	12	2	1.8		
sh2	Y	Rog	GSS 8357	9	98	9	100	5	2.7	Rp	29	5	41	6	6.5	Ht	1	11	1	12	2	9	1	1.5		
sh2	Y	Rog	GSS 8388	9	69	9	100	2	1.7	Rp	31	5	40	7	6.8	Ht	2	17	2	18	2	11	6	3.3		
sh2	Y	Rog	GSS 8388	9	65	9	100	1	1.5	Rp	27	5	38	6	6.5	Ht	2	15	2	15	2	8	6	3.3		
sh2	Y	Rog	GSS 8529	1	0	5	57	4	2.5	7	42	7	46	6	6.3		5	37	5	41	5	33	6	3.3		
sh2	Y	HM	HMX 1399S	1	0	9	90	7	4	6	35	7	48	5	5.5		5	35	5	39	5	32	5	2.8		
sh2	Y	HM	HMX 2388S	2	3	9	100	5	2.8	Rp	19	4	30	6	6.5	Ht	2	13	2	17	2	12	1	1		
sh2	Y	HM	HMX 3391 S	9	80	9	100	6	3.2	Rp	17	4	30	5	5.5		8	56	9	61	8	44	4	2.3		
sh2	Y	HM	HMX 4392S	9	76	9	100	9	5.5	9	51	8	58	5	6		6	39	6	48	5	32	1	1.5		
sh2	Y	HM	HMX 4396S	3	11	9	100	6	3.2	Rp	27	5	41	5	6	Ht	4	30	5	41	5	33	4	2.3		
sh2	Y	SnRv	Kahuna	9	88	9	100	6	3.3	Rp	22	5	35	5	5.5		4	29	5	37	5	24	1	1.3		
sh2	Y	SnRv	Lancaster	9	81	9	100	9	4.8	Rp	30	6	45	5	6	Ht	3	23	5	38	5	24	1	1.5		
sh2	Y	Cr	Marvel	9	100	9	100	5	2.7	Rp	31	8	50	5	5.8		5	34	5	43	5	29	6	3		
sh2	Y	HM	Megaton (HMX 1397 S)	1	0	6	60	7	4	Rp	24	5	40	5	6		8	51	7	54	6	36	1	1.5		
sh2	Y	Cen	Mirai 117 Y	9	83	9	100	6	3.3	5	30	5	33			4	30	5	40	5	28	7	4.5			

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ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight				
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		Ht	race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate		Rxn	Rate	Rxn	Rate	Rxn	Rate		
sh2	Y	Cen	Mirai 130 Y	9	69	9	100	6	3.2	5	29	5	36	5	5.3	Ht	4	29	5	38	5	25	8	5.8		
sh2	Y	HM	Polaris	3	11	4	44	5	3	Rp	34	8	55	5	5.8		7	48	7	53	6	36	2	1.8		
sh2	Y	Rog	Prime Plus	9	92	9	100	3	2.2	Rp	37	8	51	6	6.3	Ht	2	15	2	15	2	10	7	4.8		
sh2	Y	Rog	Primetime	9	94	9	100	2	1.7	7	42	6	44	5	5.8	Ht	3	20	2	19	3	14	8	5.5		
sh2	Y	SnRv	Rising Sun	9	85	9	100	4	2.5	Rp	19	3	28	7	6.8		5	37	6	47	5	32	1	1.3		
sh2	Y	HM	Rustler	1	0	9	86	5	2.8	Rp	32	7	49	6	6.3	Ht	5	36	5	38	5	31	1	1.5		
sh2	Y	IFS	SCH 20705	9	85	9	100	5	2.7	6	35	5	37	5	5.8	Ht	5	38	5	42	7	37	3	2		
sh2	Y	IFS	SCH 6144	9	62	9	100	4	2.5	Rp	34	8	51	7	6.8	Ht	2	16	2	18	3	17	2	1.8		
sh2	Y	IFS	SCH 70064RR	9	86	9	100	3	2.3	Rp	29	5	41	7	7	Ht	4	27	5	37	5	29	1	1.5		
sh2	Y	IFS	SCH 71141	9	100	9	100	4	2.5	Rp	33	8	51	5	6	Ht	2	14	1	13	2	13	2	1.8		
sh2	Y	IFS	SCH 81141	9	89	9	100	3	2.3	Rp	27	8	53	5	6	Ht	2	13	3	23	3	15	1	1.5		
sh2	Y	IFS	SCH23604R	9	89	9	100	6	3.5	Rp	51	8	57	6	6.5		5	32	5	39	5	26	1	1.5		
sh2	Y	HM	Sentinel (HMX 0394 S)	1	0	9	79	5	3	Rp	28	5	39	5	5.5	Ht	2	12	2	15	2	9	2	1.8		
sh2	Y	Sem	Sheba	9	61	9	100	6	3.2	9	55	9	61	6	6.5		8	58	9	75	8	45	6	3		
sh2	Y	Sem	Shimmer	9	83	9	87	5	2.8	Rp	21	5	35	4	4.8	Ht	2	16	3	23	4	18	2	1.8		
sh2	Y	AC	Summer Sweet 610 Y	9	88	9	100	9	4.7	Rp	28	8	59	6	6.5		6	39	6	44	5	33	4	2.5		
sh2	Y	AC	Summer Sweet 725 Y	9	80	9	100	5	2.7	8	46	5	41				7	46	7	54	5	33	6	3.8		
sh2	Y	AC	Summer Sweet 7640R	9	91	9	100	3	2	Rp	34	7	49	5	6	Ht	2	12	1	7	1	7	1	1.5		
sh2	Y	AC	Summer Sweet 7650 Y	9	91	7	75	3	2	Rp	37	8	54	7	6.8	Ht	1	9	1	14	2	8	2	1.8		
sh2	Y	AC	Summer Sweet 820 Y	9	91	9	100	3	2.2	6	35	5	36	6	6.5		5	37	6	49	5	31	5	2.8		
sh2	Y	AC	Summer Sweet 900 Y	9	70	9	100	4	2.5	8	45	7	46	5	5.5		5	37	7	54	5	30	4	2.3		
sh2	Y	Rog	Supersweet Jubilee Plus	9	79	9	100	9	5.5	Rp	24	7	48	5	5.5		8	53	8	58	7	41	2	1.8		
sh2	Y	Sem	SVR 08313770	1	0	5	52	6	3.3	Rp	23	7	48	4	5		4	28	4	33	4	22	1	1.3		
sh2	Y	Sem	SVR 08716805	1	0	9	100	4	2.5	Rp	24	8	54	4	5		5	32	5	38	5	28	2	1.8		
sh2	Y	Sem	SVR 08716818	9	50	9	81	5	2.8	5	30	7	46	5	6		5	31	4	33	4	21	1	1.5		
shsy	Y	Sem	SVR 08717175	1	0	4	43	3	2.2	Rp	8	2	18	3	4.5	Ht	3	22	3	27	4	19	6	3.5		
shsy	Y	Sem	SVR 08717195	9	71	9	100	3	2.2	5	32	4	31	5	6	Ht	1	11	1	12	2	13	3	2		
sh2	Y	Sem	SVR 08725143	1	0	4	46	4	2.5	6	36	6	44	5	5.5	Ht	3	20	4	34	4	22	1	1.3		
shsy	Y	Sem	SVR 08725193	9	85	9	100	5	3	7	38	7	49	9	7.8	Ht	3	26	5	36	5	24	6	3		
shsy	Y	Sem	SVR 08735566	1	0	9	88	2	1.8	Rp	16	5	33	3	4	Ht	2	14	3	21	3	15	3	2		
sh2	Y	Sem	SVR 08735929	9	93	9	100	7	4	Rp	0	Rp	0	Rp	0	Ht	2	17	2	17	3	17	2	1.8		
shsy	Y	Sem	SVR 08736091	9	86	9	100	6	3.3	Rp	31	5	34	7	6.8	Ht	3	25	5	38	5	29	1	1.5		
sh2	Y	IFS	Vision	9	97	9	100	6	3.2	9	50	8	58	6	6.5		8	57	7	51	7	37	2	1.8		
sh2	Y	IFS	XTH 1171	9	87	9	100	5	2.8	7	38	5	40	5	5.3		8	50	7	53	6	35	4	2.3		
sh2	Y	IFS	XTH 1174	9	79	9	100	7	4	7	42	7	46	7	7		8	54	8	56	7	38	3	2		
sh2	Y	IFS	XTH 1178	9	86	9	100	6	3.2	7	38	8	56	7	7		7	44	6	48	6	35	2	1.8		
sh2	Y	IFS	XTH 1179	9	97	9	100	6	3.5	6	34	6	43	7	7		7	42	6	49	7	38	1	1.5		

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ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight			
				MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate		
sh2	Y	IFS	XTH 1181	9	81	9	100	4	2.5	Rp	21	5	37	4	5	Ht	2	14	2	16	2	13	4	2.5	
sh2	Y	IFS	XTH 1182	9	87	9	100	5	2.7	Rp	25	6	44	4	5	Ht	2	12	1	13	2	13	1	1.5	
sh2	Y	IFS	XTH 1183	9	83	9	100	4	2.5	Rp	19	5	40	4	5	Ht	1	11	1	9	2	12	1	1.3	
sh2	Y	IFS	XTH 1184	9	93	9	100	3	2.2	Rp	26	5	39	5	5.5	Ht	2	12	2	15	2	12	1	1.3	
sh2	Y	IFS	XTH 1272	9	75	9	100	5	2.7	7	39	5	37	6	6.3	6	39	6	46	5	32	2	1.8		
sh2	Y	IFS	XTH 1274	9	72	9	100	2	1.8	6	36	4	32	7	6.8	5	31	5	37	4	22	3	2		
sh2	Y	IFS	XTH 1275	9	92	9	100	6	3.2	6	35	5	37	6	6.3	8	51	7	53	7	38	3	2		
sh2	Y	IFS	XTH 1277	9	92	9	100	5	2.7	9	52	9	61	8	7.5	8	58	7	54	7	38	3	2		
sh2	Y	IFS	XTH 1278	9	100	9	100	7	3.8	6	34	7	48	8	7.5	7	46	7	54	6	36	2	1.8		
sh2	Y	IFS	XTH 1279	9	97	9	100	7	3.8	5	26	6	43	6	6.3	5	38	6	48	6	35	2	1.8		
sh2	Y	IFS	XTH 1280	9	78	9	100	3	2.2	Rp	22	5	39	4	5	Ht	1	11	2	16	3	16	1	1.5	
sh2	Y	IFS	XTH 1281	9	84	9	100	3	2.3	Rp	20	5	39	4	4.8	Ht	2	15	2	17	2	13	2	1.8	
sh2	Y	IFS	XTH 1282	9	81	9	100	3	2.2	Rp	21	6	43	5	5.3	Ht	2	15	2	17	3	15	1	1.5	
sh2	Y	IFS	XTH 1283	9	80	9	100	4	2.5	Rp	18	5	37	4	5	Ht	2	13	1	12	2	12	1	1.3	
sh2	Y	IFS	XTH 1284	9	92	9	88	2	1.7	Rp	26	5	39	5	5.3	Ht	1	11	2	18	3	14	2	1.8	
sh2	Y	IFS	XTH 1373	9	70	9	100	5	2.7	7	40	4	31	6	6.3	5	38	6	46	5	33	2	1.8		
sh2	Y	IFS	XTH 1374	9	76	9	100	3	2.3	5	33	5	38	6	6.5	5	37	5	43	5	31	2	1.8		
sh2	Y	IFS	XTH 1377	9	100	9	100	5	2.8	9	51	8	56	7	7	7	48	6	49	6	35	3	2		
sh2	Y	IFS	XTH 1474	9	77	9	100	3	2.3	6	34	5	39	5	6	7	49	7	53	6	36	3	2		
sh2	Y	IFS	XTH 1475	9	64	9	100	4	2.5	6	35	6	43	6	6.5	5	37	6	44	5	33	7	4		
sh2	Y	IFS	XTH 1574	9	94	9	100	6	3.3	7	40	5	41	8	7.3	5	37	5	39	5	32	4	2.3		
sh2	Y	IFS	XTH 1575	9	87	9	100	5	3	6	37	8	50	7	7	Ht	4	30	5	38	6	35	6	3	
sh2	Y	IFS	XTH 90570	9	81	9	100	4	2.5	7	40	5	39	6	6.5	8	56	8	59	7	38	6	3.5		
sh2	BC	IFS	270A	9	98	9	100	6	3.7	7	44	8	56	9	7.8	7	48	7	54	7	40	2	1.8		
sh2	BC	IFS	272A	9	94	9	100	6	3.7	8	48	8	51	8	7.5	8	58	9	63	8	44	2	1.8		
sh2	BC	IFS	274A (XTH 2175)	9	90	9	100	5	3	9	51	8	59	8	7.3	8	58	9	64	8	45	4	2.5		
sh2	BC	IFS	275A	9	100	9	100	5	2.7	7	41	7	49	8	7.5	7	42	5	42	6	35	6	3.3		
sh2	BC	IFS	276A	9	94	9	100	5	3	Rp	33	8	53	7	7	Ht	5	38	5	42	6	36	2	1.8	
sh2	BC	IFS	277A	9	83	9	100	4	2.5	6	36	5	41	7	6.8	6	41	5	41	5	29	3	2		
sh2	BC	IFS	278A	9	94	9	100	3	2.3	7	40	7	49	8	7.3	Ht	3	26	4	35	5	26	3	2	
sh2	BC	IFS	281A (XTH 2181)	9	97	9	88	5	2.7	Rp	23	7	47	5	5.5	Ht	2	13	2	16	3	14	3	2	
sh2	BC	IFS	282A	9	97	9	100	3	2.2	Rp	24	6	43	8	7.3	Ht	1	9	1	13	2	13	3	2	
sh2	BC	AC	ACX 946 BC	9	88	9	100	6	3.2	Rp	39	9	61	6	6.5	Ht	5	35	6	44	5	26	4	2.5	
sh2	BC	Rog	BSS 0977	9	84	9	100	3	2.3	Rp	0	Rp	0	Rp	0.5	Ht	2	12	1	13	2	10	7	4	
sh2	BC	Rog	BSS 1596	9	87	9	100	8	4.2	8	49	8	50	8	7.3	Ht	3	20	5	39	5	26	5	2.8	
sh2	BC	Rog	BSS 3495	1	0	4	40	7	4	Rp	24	5	41	6	6.3	5	38	5	41	7	37	4	2.3		
sh2	BC	Rog	BSS 3948	1	0	9	100	6	3.3	Rp	47	9	63	7	7	Ht	5	31	6	45	7	38	5	2.8	

Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2004

ET	KC SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight			
			MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		Rxn	Rate
			Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate		
sh2	BC Rog	BSS 6562	9	72	9	100	7	3.8	6	36	5	41	5	5.5	Ht	4	27	5	36	5	30	4	2.3	
sh2	BC Rog	BSS 6661	1	0	2	21	4	2.5	Rp	0	Rp	0	Rp	0.5	Ht	1	11	2	17	2	12	3	2	
sh2	BC Rog	BSS 6661 (Rp1-G)	1	0	2	20	3	2	Rp	1	Rp	0	Rp	0.5	Ht	1	7	1	10	2	8	2	1.8	
sh2	BC Cr	CSH BF3-122	9	92	9	92	6	3.5	Rp	33	5	40	8	7.5		4	29	5	37	4	19	2	1.8	
sh2	BC Rog	Double Up	9	86	9	80	6	3.7	5	30	5	33	5	5.8		3	22	3	27	5	24	1	1.5	
sh2	BC Sem	Ex 08705788	1	0	5	57	5	3	Rp	31	8	55	5	5.3		7	42	7	53	6	36	6	3.8	
sh2	BC Sem	Ex 08716390	9	92	9	100	3	2.2	Rp	0	Rp	0	5	5.5	Ht	2	15	3	22	4	20	3	2	
shsy	BC Sem	Ex 08716622	9	88	9	100	3	2	5	31	5	36	5	5.8	Ht	3	25	4	35	5	28	1	1.5	
sysy	BC Sem	Ex 08725230	1	0	9	100	3	2.2	8	46	7	49	8	7.3	Ht	3	26	5	39	5	26	8	5	
sysy	BC Sem	Ex 9362434	9	86	9	100	3	2.3	7	41	5	39	7	7		4	27	5	38	5	27	6	3	
sh2	BC IFS	Fantastic	9	100	9	100	5	2.7	8	45	7	46	7	6.8		8	51	8	59	8	43	4	2.5	
sh2	BC GG	GG Code 161	9	85	9	100	3	2.3	Rp	22	5	37	6	6.5		5	35	5	39	5	33	4	2.5	
sh2	BC GG	GG Code 701	5	36	9	100	5	2.7	Rp	29	5	38	5	5.8		5	34	4	35	5	30	3	2	
sh2	BC GG	GG Code 702	9	82	9	100	3	2.3	Rp	24	8	53	7	6.8		5	34	5	39	5	30	2	1.8	
sh2	BC GG	GG Code 703	9	87	9	100	5	2.7	Rp	24	7	48	5	5.5		5	32	5	37	5	29	1	1	
sh2	BC HM	HMX 2372 BS	9	88	9	100	6	3.2	Rp	32	5	39	5	5.8	Ht	5	32	5	37	5	27	2	1.8	
sh2	BC HM	HMX 2374 BS	1	0	2	16	3	2	6	33	5	36	5	5.5	Ht	2	13	2	17	1	6	1	1.3	
sh2	BC Cr	Holiday-CSHBF2-69	9	68	9	100	3	2	Rp	38	7	46	6	6.5	Ht	1	5	1	7	1	5	1	1.5	
sh2	BC Sem	Hollywood	9	88	9	100	5	3	Rp	31	8	59	7	7	Ht	7	43	7	51	6	36	6	3.8	
sh2	BC IFS	Honey n Pearl	9	100	9	100	5	2.7	7	42	6	44	5	5.8		7	42	7	53	6	36	6	3.3	
sh2	BC IFS	Jumpstart RR	9	100	9	100	7	3.8	Rp	23	7	46	6	6.5		5	38	6	47	6	35	6	3.3	
sh2	BC Sem	Madonna R	9	94	9	100	5	3	8	46	7	48	5	6		8	51	8	58	8	44	4	2.5	
sh2	BC Cen	Mirai 301 BC	9	86	9	100	3	2.2	7	39	5	41	6	6.5		7	44	7	51	7	38	7	4	
sh2	BC Cen	Mirai 308 BC	9	72	9	100	6	3.5	5	30	5	34				5	37	6	49	5	32	9	6.8	
sh2	BC Cen	Mirai 327 BC	9	88	9	100	7	3.8	6	35	5	37	5	6		5	35	6	46	5	30	9	6	
sh2	BC Cen	Mirai 334 BC	9	91	9	100	1	1.5	8	48	7	47	8	7.5		5	37	6	49	5	31	3	2	
sh2	BC IFS	Nordic	9	81	9	100	6	3.5	9	51	8	54	7	7		8	53	8	58	6	35	5	2.8	
shsy	BC Sem	Obsession	9	90	9	100	3	2.2	Rp	26	5	36	5	6	Ht	2	16	3	24	4	20	3	2	
sh2	BC Cr	Optimum CSHBF2-68	9	88	9	100	6	3.3	7	38	5	38	7	7		5	36	6	48	5	24	2	1.8	
sh2	BC Cr	Phenomenal	9	80	9	100	5	3	7	39	5	41	7	7		5	37	8	55	5	33	4	2.5	
sh2	BC Sem	Princeton	9	83	9	100	5	2.7	5	33	6	44	7	7		5	38	6	46	6	34	6	3	
sh2	BC IFS	SCH 23604 BC RR	9	89	9	100	6	3.2	Rp	31	8	58	6	6.5		4	30	4	33	5	23	2	1.8	
sh2	BC IFS	SCH 55041	9	86	9	100	4	2.5	Rp	26	5	41	5	5.8	Ht	2	16	2	17	3	16	1	1.3	
sh2	BC IFS	SCH 55141	9	93	9	100	3	2.3	Rp	22	6	43	4	4.8	Ht	2	16	3	22	3	15	1	1.3	
sh2	BC IFS	SCH 86705	9	91	9	100	5	2.7	5	32	5	36	5	6	Ht	5	38	5	42	6	35	6	3	
sh2	BC Cr	Tango	9	66	9	100	3	2	7	38	4	31	5	6		5	33	5	40	4	22	3	2	
sh2	BC IFS	XTH 2172	9	94	9	100	5	3	5	33	7	49	5	5.5		7	47	8	55	6	34	5	2.8	

Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2004

ET	KC SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight			
			MDMv-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		Rxn	Rate
			Rxn	Rate	Rxn	Rate					Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate		
sh2	BC IFS	XTH 2173	9	85	9	100	4	2.5	5	29	5	33	5	5.8		5	31	5	38	5	31	4	2.3	
sh2	BC IFS	XTH 2178	9	87	9	100	3	2.3	Rp	24	5	38	5	5.8	Ht	2	12	2	16	2	10	4	2.3	
sh2	BC IFS	XTH 2179	9	94	9	100	3	2.3	6	36	5	36	8	7.3		5	37	5	42	5	29	6	3.8	
sh2	BC IFS	XTH 2180	9	86	9	100	3	2.3	Rp	22	5	38	5	6	Ht	2	15	1	14	3	17	1	1.5	
sh2	BC IFS	XTH 2184	9	79	9	100	5	2.7	Rp	21	7	48	4	5	Ht	1	11	1	13	2	13	2	1.8	
sh2	BC IFS	XTH 2274	9	88	9	100	5	2.8	8	49	7	49	7	6.8		8	50	7	50	7	38	4	2.5	
sh2	BC IFS	XTH 2276	9	97	9	100	5	2.8	6	35	6	44	5	5.5		7	43	6	46	6	34	6	3.3	
sh2	BC IFS	XTH 2277	9	88	9	100	5	2.8	7	41	8	50	6	6.5		7	49	7	53	6	36	6	3.3	
sh2	BC IFS	XTH 2278	9	92	9	100	5	2.8	Rp	24	6	45	5	5.3	Ht	2	13	2	16	2	12	3	2	
sh2	BC IFS	XTH 2279	9	86	9	100	4	2.5	Rp	28	6	44	5	6	Ht	1	9	1	13	2	11	4	2.5	
sh2	BC IFS	XTH 2280	9	88	9	100	4	2.5	Rp	19	5	39	5	5.5	Ht	2	15	2	17	3	15	1	1.5	
sh2	BC IFS	XTH 2281	9	90	9	100	3	2.3	Rp	22	6	42	5	5.5	Ht	1	10	2	15	3	14	3	2	
sh2	BC IFS	XTH 2377	9	82	9	100	7	4	7	38	5	41	6	6.5	Ht	7	46	7	51	6	36	3	2	
sh2	BC IFS	XTH 2379	9	92	9	100	3	2.3	Rp	24	6	45	5	5.8	Ht	2	13	1	13	2	13	4	2.3	
sh2	BC IFS	XTH 2381	9	86	9	100	5	2.7	Rp	21	5	40	4	4.8	Ht	1	11	2	15	2	12	4	2.3	
sh2	BC IFS	XTH 2477	9	86	9	100	7	4	7	39	7	46	6	6.5	Ht	7	44	6	47	7	37	4	2.5	
sh2	BC IFS	XTH 86804	9	93	9	100	5	2.7	6	37	6	43	7	7	Ht	3	21	4	29	5	24	2	1.8	
sh2	W IFS	372A	9	100	9	100	5	3	7	41	8	51	9	8		5	37	7	53	7	39	4	2.3	
sh2	W IFS	375A (XTH 98990R)	9	97	9	100	5	2.8	7	42	7	46	8	7.5	Ht	5	36	5	39	6	35	7	4	
sh2	W IFS	377A (277AWT)	9	84	9	100	5	2.7	7	38	7	47	7	7		7	42	5	43	6	34	4	2.5	
sh2	W IFS	378A	9	100	9	100	3	2	6	36	7	46	9	7.8	Ht	3	24	4	29	5	24	4	2.3	
sh2	W IFS	382A	9	76	9	100	3	2.3	Rp	29	6	43	6	6.5	Ht	1	8	1	10	2	12	2	1.8	
shsy	W Sem	Ex 08413133	9	95	9	100	5	2.8	5	31	5	39	5	5.8	Ht	4	27	5	39	6	35	4	2.3	
sh2	W Sem	Ex 08705770	1	0	3	29	6	3.2	Rp	29	7	49	5	5.8		5	37	6	45	5	33	7	4.3	
sh2	W Sem	Ex 08716612	1	0	6	63	5	3	Rp	22	5	39	6	6.5		5	31	5	37	5	25	1	1.5	
sh2	W HM	HMX 2376 WS	1	0	9	100	4	2.5	9	60	9	60	6	6.3		7	46	8	58	7	37	1	1.5	
sh2	W Cr	How Sweet It Is	9	96	9	100	5	3	7	38	6	44	6	6.3		7	48	7	50	6	34	5	2.8	
sh2	W Sak	K0-305	9	77	9	100	5	2.7	7	38	6	44	7	6.8		7	42	8	58	6	35	6	3.8	
sh2	W Sak	K0-305A	1	0	9	100	2	1.8	Rp	33	5	41	5	6		4	28	5	38	4	20	6	3.5	
sh2	W Sak	K0-305B	1	0	9	85	2	1.7	Rp	33	6	44	5	6		5	32	5	41	5	24	6	3.8	
sh2	W Sak	K2- 501	9	88			5	2.8	7	42	7	47				7	45	8	56	6	34	6	3.3	
sh2	W Sak	K2- 501A	1	0	9	88	3	2.3	Rp	28	5	40	5	5.8		5	34	5	39	4	22	5	2.8	
sh2	W Sak	K2-501B	1	0	9	100	3	2	Rp	32	6	42	6	6.3		5	37	6	48	5	28	6	3	
sh2	W Sak	K3-312	9	97	9	100	5	2.8	Rp	32	6	43	6	6.5		5	31	5	40	5	23	3	2	
sh2	W Sak	Millenium	1	0	9	100	1	1.5	Rp	26	5	35	6	6.3		2	18	3	22	3	15	1	1.5	
sh2	W Cen	Mirai 421 W	9	94	9	100	4	2.5	5	33	5	37				7	43	6	44	7	38	6	3.8	
sh2	W HM	Mont Blanc (HMX 0356 WS)	1	0	4	39	3	2	Rp	17	3	29	4	5	Ht	1	2	1	3	1	1	1	1.5	

Table 3. Reactions of sweet corn hybrids in the University of Illinois disease nursery - 2004

ET	KC	SC	Hybrid	Maize dwarf mosaic				Stewart's wilt		Common rust						Northern leaf blight						Southern leaf blight			
				MDMV-A		SCMV		Rxn	Rate	Rxn	Rate	avirulent		D-virulent		G-virulent		race 0		race 0&1		race 1		Rxn	Rate
				Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	Ht	Rxn	Rate	Rxn	Rate	Rxn	Rate	Rxn	Rate	
sh2	W	HM	Snow White	2	6			6	3.3	9	63	9	69	9	8.3		6	40	7	53					
sh2	W	AC	Summer Sweet 7631 W	9	75	9	100	3	2.2	8	48	8	54	6	6.5	Ht	1	11	2	17	2	10	1	1.5	
sh2	W	AC	Summer Sweet 781 Ultra	9	89	9	100	3	2.3	8	43	7	48	6	6.5		4	27	4	33	4	20	2	1.8	
shsy	W	Sem	SVR 08737068	1	0	2	17	6	3.5	Rp	18	5	39	4	4.8	Ht	3	23	5	36	5	30	2	1.8	
shsy	W	Sem	SVR 08737069	5	48	6	63	6	3.5	Rp	17	5	38	5	5.8	Ht	3	24	4	33	5	31	3	2	
sh2	W	HM	Sweet Magic	9	68	9	100	5	3	9	60	9	70	9	8		7	47	9	63	7	37	1	1.5	
sh2	W	Cen	Taste 418 W	9	84	9	100	4	2.5	6	36	5	37	6	6.3		7	44	7	50	7	37	6	3.5	
sh2	W	Rog	WSS 9842	9	86	9	100	4	2.5	Rp	30	5	41	5	6	Ht	2	17	4	29	3	17	5	2.8	
sh2	W	IFS	XTH 3173	9	92	9	100	5	3	8	44	8	51	9	7.8		5	36	5	43	6	36	4	2.5	
sh2	W	IFS	XTH 3180	9	100	9	100	3	2	Rp	21	5	40	5	5.8	Ht	1	11	2	16	3	16	2	1.8	
sh2	W	IFS	XTH 3181	9	89	9	100	3	2.3	Rp	23	5	41	5	5.3	Ht	2	13	2	17	2	12	4	2.5	
			Mean		64.1		90.2		2.74		29.3		37.1		5.66				33.7		40.2		28.1		2.55
			Standard deviation		35.4		22.5		0.75		13.0		14.1		1.5				13.8		14.3		10.4		1.15
			LSD (0.05)		23.6		0.9		0.92		7.0		8.9		1.08				8.8		7.8		6.2		1.08
			Minimum		0		0		1.0		0		0		0				1.5		3		1		1
			Maximum		100		100		5.5		62.6		70		8.3				67.5		75		55		6.8
			Best 25%		50		96		2.2		22		32		5.15				24		32		20		1.8
			Median		81		100		2.7		30		39		6				36		41		29		2.3
			Worst 25%		89		100		3.2		38		46		6.5				43		51		36		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, G-virulent rust, SLB); 0 to 100% leaf area infected (NLB, avirulent rust, D-virulent rust);
0 to 100% incidence of infected plants (MDM)

Seed source: AC - Abbott & Cobb, Cen - Centest, Cr - Crookham, GG - Green Giant, HM - Harris Moran, IFS - Illinois Foundation Seeds,
MM - Mesa Maize, Rog - Rogers (Syngenta), Sak - Sakata, Sem - Seminis, SnRv - Snowy River

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
Sugary hybrids												
su	Y	SnRv	Bliss	2	5	0	1	0	0	3	18	0
su	Y	Rog	Bold	4	30	0	2	5	0	4	23	0
su	Y	Rog	Bonus	2	5	0	2	5	0	2	10	0
suse	Y	Sem	Chase	2	10	0	1	0	0	2	10	0
su	Y	HM	Coho (HMX 7384)	4	30	0	2	5	0	3	20	0
su	Y	Cr	CSUYP1-1	3	20	0	2	3	0	3	18	0
su	Y	Cr	CSUYP1-2	3	18	0	2	3	0	3	18	0
su	Y	Cr	CSUYP1-7	4	38	0	2	8	0	4	30	0
su	Y	Cr	CSUYP2-28	3	20	0	1	0	0	3	18	0
su	Y	Cr	CSUYP3-79	2	10	0	2	3	0	2	10	0
su	Y	Cr	CSUYP3-83	2	5	0	1	0	0	3	15	0
su	Y	HM	Dynamo	4	23	0	4	35	5	4	30	0
su	Y	Cr	Earlivee	2	5	0	2	5	0	2	10	0
suse	Y	Sem	El Toro	4	28	0	6	40	13	6	33	15
su	Y	Cr	Eliminator	4	25	0	2	8	0	4	25	0
su	Y	SnRv	Empire	4	23	15	2	5	0	3	15	0
su	Y	Sem	Ex 08302418	2	3	0	2	3	0	3	18	0
su	Y	Sem	Ex 08705353	1	0	0	2	5	0	2	10	0
su	Y	Sem	Ex 08705627	3	20	0	2	3	0	3	18	0
su	Y	Sem	Ex 08705640	1	0	0	2	3	0	3	13	0
suse	Y	Sem	Ex 08716607	3	13	0	2	5	0	3	13	0
su	Y	Sem	Ex 08726117	1	0	0	2	5	0	3	13	0
su	Y	Sem	Ex 8282608	2	5	0	2	8	0	3	20	0
su	Y	Sem	Ex 8482608	1	0	0	2	8	0	3	13	0
su	Y	Sem	Ex 8490239	2	6	0	1	0	0	3	13	0
su	Y	GG	GG Code 123	1	0	0	1	0	0	3	20	0
su	Y	GG	GG Code 124	3	18	0	1	0	0	3	13	0
su	Y	GG	GG Code 127	1	0	0	2	5	0	2	10	0
su	Y	GG	GG Code 128	2	5	0	2	10	0	3	13	0
su	Y	GG	GG Code 139	2	5	0	3	13	0	2	10	0
su	Y	GG	GG Code 144	2	8	0	2	5	0	3	15	0
su	Y	GG	GG Code 146	2	10	0	1	0	0	4	23	0
su	Y	GG	GG Code 148	1	0	0	2	5	0	3	18	0
su	Y	GG	GG Code 150	1	0	0	2	10	0	3	13	0
su	Y	GG	GG Code 151	2	5	0	2	10	0	2	5	0
su	Y	GG	GG Code 152	2	3	0	2	3	0	2	3	0
su	Y	GG	GG Code 153	1	0	0	2	5	0	3	20	0
su	Y	GG	GG Code 154	1	0	0	3	15	0	3	20	0
su	Y	GG	GG Code 27	1	0	0	1	0	0	3	20	0
su	Y	GG	GG Code 3	1	0	0	2	5	0	4	23	0
su	Y	GG	GG Code 62	1	0	0	2	5	0	3	18	0
su	Y	GG	GG Code 82	1	0	0	1	0	0	2	10	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
su	Y	GG	GG Code 99	1	0	0	1	0	0	3	13	0
su	Y	Rog	GH 0991	4	40	0	4	23	0	5	38	0
su	Y	Rog	GH 1829	2	10	0	1	0	0	4	28	0
su	Y	Rog	GH 2042	3	20	0	3	15	0	5	40	0
su	Y	Rog	GH 2298	7	45	35	3	18	0	4	25	0
su	Y	Rog	GH 2669	5	33	15	5	38	5	4	25	0
su	Y	Rog	GH 5703	2	5	0	1	0	0	5	33	0
su	Y	Rog	GH 5704	3	15	0	1	0	0	4	28	0
su	Y	Rog	GH 6198	4	23	0	3	20	0	5	33	0
su	Y	Rog	GH 6333	3	15	0	3	13	0	4	28	0
su	Y	Rog	GH 6631	3	13	0	2	3	0	3	13	0
su	Y	Rog	GH 9589	2	8	0	1	0	0	4	25	0
su	Y	Rog	GH 9590	4	25	0	2	3	0	5	35	0
su	Y	Rog	GH 9597	1	0	0	3	13	0	3	13	0
su	Y	HM	HMX 1382	4	23	0	3	15	0	3	13	0
su	Y	HM	HMX 1383	2	5	0	2	3	0	3	20	0
su	Y	HM	HMX 2386	3	15	0	2	5	0	5	33	0
su	Y	HM	HMX 4394	1	0	0	1	0	0	3	20	0
su	Y	Cr	Intrigue	2	5	0	1	0	0	2	10	0
su	Y	Rog	Jubilee	4	43	0	2	3	0	5	33	0
su	Y	HM	Kokanee (HMX 0395)	2	8	0	1	0	0	4	23	0
su	Y	HM	Legacy	2	8	0	1	0	0	4	23	0
su	Y	HM	Lumina	1	0	0	1	0	0	2	3	0
su	Y	Sem	Merkur	4	35	0	3	13	0	3	18	0
suse	Y	Sem	Powerhouse	1	0	0	1	0	0	4	28	0
su	Y	SnRv	Prelude	2	5	0	1	0	0	2	10	0
su	Y	SnRv	Punch	4	25	0	2	8	0	4	23	0
su	Y	HM	Sockeye	2	8	0	1	0	0	2	10	0
su	Y	Sem	SVR 08402333	2	5	0	1	0	0	3	18	0
su	Y	Sem	SVR 08716567	2	5	0	2	3	0	3	18	0
su	Y	Sem	SVR 08726088	1	0	0	1	0	0	2	10	0
su	Y	Sem	SVR 08726106	1	0	0	1	0	0	3	15	0
su	Y	Sem	SVR 08726766	1	0	0	2	5	0	3	18	0
su	Y	Sem	SVR 08726795	2	5	0	1	0	0	3	13	0
su	Y	Sem	SVR 08735596	4	25	0	1	0	0	2	3	0
su	Y	Sem	SVR 08735674	4	25	0	1	0	0	3	20	0
su	Y	Sem	SVR 08735807	2	8	0	2	5	0	2	10	0
su	Y	Sem	SVR 08735814	3	20	0	2	3	0	2	10	0
su	Y	SnRv	UY 060703	2	5	0	1	0	0	2	10	0
su	Y	SnRv	UY 065703	4	30	0	2	3	0	2	10	0
su	Y	SnRv	UY 072103	1	0	0	1	0	0	2	8	0
su	BC	Cr	Quickie	2	5	0	1	0	0	3	13	0
su	W	GG	GG Code 155	2	5	0	2	10	0	2	10	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
Sugary enhancer hybrids												
syn	Y	Cr	Applause	1	0	0	1	0	0	3	20	0
se	Y	Cr	Bodacious	2	5	0	2	3	0	3	18	0
se	Y	Cr	CSEYP1-25	2	5	0	2	3	0	2	10	0
se	Y	Cr	CSEYP1-3	1	0	0	1	0	0	2	10	0
se	Y	Cr	CSEYP1-5	1	0	0	1	0	0	3	15	0
sesu	Y	Sem	Ex 8452067	1	0	0	2	3	0	3	18	0
sesy	Y	Sem	Ex 9330109	2	6	0	1	0	0	2	10	0
se	Y	Rog	GH 6510	1	0	0	1	0	0	4	23	0
se	Y	Rog	Honey Select	2	5	0	1	0	0	4	25	0
se	Y	Cr	Incredible	2	5	0	2	8	0	2	8	0
se	Y	MM	Merlin	2	10	0	2	5	0	3	13	0
se	Y	Cr	Miracle	2	10	0	2	8	0	3	13	0
se	Y	MM	Ogunquit (26058)	2	5	0	1	0	0	3	15	0
se	Y	Cr	Sugar Buns	2	5	0	1	0	0	4	28	0
se	Y	Sem	SVR 08424342	2	3	0	1	0	0	3	18	0
sesu	Y	Sem	SVR 08725803	1	0	0	2	5	0	2	8	0
se	Y	Sem	SVR 08725892	2	8	0	1	0	0	2	8	0
se	BC	Sem	Absolute	1	0	0	1	0	0	4	23	0
se	BC	MM	Accord	2	3	0	3	18	0	3	13	0
se	BC	Cr	Ambrosia	2	5	0	1	0	0	3	20	0
se	BC	Rog	BC 0805	2	5	0	2	3	0	5	33	0
se	BC	Rog	BC 0808	3	18	0	1	0	0	4	23	0
se	BC	Rog	BC 1136	2	10	0	2	3	0	4	28	0
syn	BC	Cr	Bojangles	1	0	0	2	3	0	2	3	0
syn	BC	Cr	Bravado	3	18	0	2	8	0	5	33	0
se	BC	MM	Brocade TSW	2	10	0	1	0	0	4	28	0
se	BC	MM	Buccaneer (MXH 11337)	2	5	0	1	0	0	4	23	0
se	BC	MM	Buckeye	2	10	0	1	0	0	4	25	0
syn	BC	Cr	Cameo	2	5	0	2	8	0	4	23	0
syn	BC	Cr	Charmed	1	0	0	2	5	0	2	5	0
se	BC	Cr	Delectable	1	0	0	2	5	0	3	13	0
se	BC	MM	Double Gem	6	23	45	2	5	0	4	23	0
se	BC	Sem	Ex 08725441	2	5	0	1	0	0	3	15	0
sesy	BC	Sem	Ex 08725994	1	0	0	1	0	0	3	13	0
se	BC	Sem	Ex 8487249	4	28	0	3	15	5	3	13	0
se	BC	MM	Exp 11467	2	10	0	3	13	3	4	23	0
se	BC	MM	Exp 11685	1	0	0	2	10	0	3	20	0
se	BC	Cr	Fleet	4	23	0	1	0	0	3	18	0
syn	BC	Cr	Frisky	4	30	0	2	3	0	2	10	0
sb	BC	HM	HMX 2370 BES	1	0	0	1	0	0	2	5	0
sb	BC	HM	HMX 4379 BES	5	30	20	2	10	0	4	28	0
sb	BC	HM	HMX 4380 BES	3	15	0	1	0	0	4	28	0
sb	BC	HM	HMX 4381 BES	1	0	0	2	10	0	3	18	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
syn	BC	Cr	Kristine	2	10	0	2	5	0	4	23	0
se	BC	MM	Lancelot	2	10	0	2	3	0	4	30	0
se	BC	MM	Luscious	2	10	0	1	0	0	3	20	0
se	BC	MM	Montauk (1014)	2	3	0	1	0	0	4	28	0
se	BC	Cr	Mystique	4	13	13	4	25	0	4	28	0
se	BC	MM	Nantasket (1074)	2	5	0	2	3	0	3	20	0
se	BC	MM	Nauset (1009)	3	13	0	2	3	0	4	28	0
syn	BC	Cr	Polka	2	5	0	1	0	0	3	18	0
se	BC	MM	Precious Gem	3	18	0	2	5	0	5	35	0
sb	BC	HM	Renaissance (HMX 0351B)	2	5	0	1	0	0	2	10	0
se	BC	Sem	Sensor	1	0	0	1	0	0	2	5	0
se	BC	Sem	SVR 08725362	2	10	0	1	0	0	4	28	0
se	BC	Sem	SVR 08725451	2	10	0	1	0	0	3	18	0
se	BC	Cr	Trinity	2	5	0	1	0	0	3	15	0
syn	W	Cr	Alexis	2	3	0	2	5	0	2	10	0
se	W	Cr	Argent	4	18	10	5	38	8	4	28	0
se	W	Rog	Avalon	3	13	0	1	0	0	4	25	0
syn	W	Cr	Celestial	5	35	15	4	33	5	3	20	0
syn	W	Cr	Cinderella	1	0	0	2	3	0	3	13	0
se	W	MM	Cloud Mine TSW	2	5	0	2	5	0	2	10	0
se	W	Cr	CSEWP2-40	2	10	0	1	0	0	4	25	0
se	W	Sem	Ex 08716630	1	0	0	1	0	0	2	5	0
se	W	Sem	Ex 08725633	3	20	0	1	0	0	4	28	0
se	W	Sem	Ex 8446457	3	18	0	4	33	5	3	18	0
se	W	MM	Exp W 20465	3	13	0	1	0	0	2	8	0
se	W	MM	Exp W 20903	2	5	0	2	8	0	3	20	0
se	W	Cr	Frosty	3	13	0	1	0	0	4	23	0
sb	W	HM	HMX 4382 WES	1	0	0	1	0	0	3	15	0
se	W	MM	Imaculata	2	10	0	2	3	0	3	18	0
se	W	MM	Misquamicut (2019)	2	8	0	1	0	0	3	20	0
se	W	MM	Sugar Pearl (MXH 20616)	2	5	0	1	0	0	2	10	0
se	W	Sem	SVR 08725655	1	0	0	1	0	0	3	13	0
se	W	Cr	Venus (CSEWF1-13)	1	0	0	2	3	0	4	28	0
se	W	Rog	WH 0807	2	5	0	2	3	0	4	28	0
Shrunken-2 hybrids												
sh2	Y	IFS	170A (XTH1170)	5	30	20	4	25	5	4	30	0
sh2	Y	IFS	173A (XTH 1173)	3	15	0	2	5	0	4	23	0
sh2	Y	Cr	175 A	3	13	0	2	5	0	3	15	0
sh2	Y	Cr	178 A	3	15	0	4	33	0	4	30	0
sh2	Y	IFS	180A (XTH 1180)	2	8	0	1	0	0	3	13	0
sh2	Y	IFSI	182 A	3	15	0	3	20	0	4	28	0
sh2	Y	AC	ACX 1074 Y	3	13	0	3	13	0	3	20	0
sh2	Y	AC	ACX 1079 Y	3	15	0	4	30	5	3	20	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
sh2	Y	Sem	Basin	2	8	0	4	25	0	3	20	0
sh2	Y	Sem	Challenger	2	10	0	2	5	0	4	28	0
sh2	Y	Cr	CNS 710 R	2	10	0	1	0	0	2	8	0
sh2	Y	Cr	CNS 710A R	3	18	0	2	3	0	3	15	5
sh2	Y	SnRv	Columbia	1	0	0	2	5	0	3	15	0
sh2	Y	Cr	CSHYP2-57	2	8	0	2	3	0	3	20	0
sh2	Y	Cr	CSHYP2-78	1	0	0	2	10	0	3	13	0
sh2	Y	Cr	CSHYP3-102	1	0	0	1	0	0	3	13	0
sh2	Y	Cr	CSHYP3-112	9	23	97	4	33	0	9	30	90
sh2	Y	HM	Day Star	3	13	0	1	0	0	4	25	0
sh2	Y	IFS	Early Illini	2	8	0	2	3	0	3	20	0
shsy	Y	Sem	Ex 08413049	3	15	0	2	3	0	3	18	0
sh2	Y	Sem	Ex 08705808	2	10	0	2	3	0	5	28	5
sh2	Y	Sem	Ex 08716636	2	5	0	1	0	0	3	20	0
shsy	Y	Sem	Ex 08717180	2	8	0	1	0	0	3	18	0
sysy	Y	Sem	Ex 08725226S	1	0	0	1	0	0	3	15	0
sh2	Y	Sem	Ex 08736049	1	0	0	1	0	0	4	30	0
sh2	Y	Sem	Ex 08736072	2	10	0	1	0	0	2	5	0
shsy	Y	Sem	Ex 08736093	4	23	0	3	13	0	3	18	0
sh2	Y	Sem	Ex 8462518	2	8	0	2	3	0	3	20	0
sh2	Y	Sem	Ex 9381178	1	0	0	1	0	0	2	10	0
sh2	Y	GG	GG Code 107	3	18	0	3	13	0	4	25	0
sh2	Y	GG	GG Code 141	3	13	0	1	0	0	2	10	0
sh2	Y	GG	GG Code 156	1	0	0	2	5	0	2	5	0
sh2	Y	GG	GG Code 157	2	8	0	2	3	0	4	23	0
sh2	Y	GG	GG Code 158	1	0	0	2	3	0	3	15	0
sh2	Y	GG	GG Code 159	2	5	0	1	0	0	2	8	0
sh2	Y	SnRv	GoldenSweet Improved	2	8	0	3	18	0	3	18	0
sh2	Y	Rog	GSS 1303	1	0	0	2	10	0	3	13	0
sh2	Y	Rog	GSS 3365	2	8	0	1	0	0	3	18	0
sh2	Y	Rog	GSS 4165	2	10	0	3	13	0	4	25	0
sh2	Y	Rog	GSS 5035	1	0	0	3	13	0	1	0	0
sh2	Y	Rog	GSS 6314	3	20	0	2	5	0	6	33	15
sh2	Y	Rog	GSS 7164	3	18	0	2	5	0	3	18	0
sh2	Y	Rog	GSS 8357	3	15	0	1	0	0	4	25	0
sh2	Y	Rog	GSS 8357	3	18	0	1	0	0	4	30	0
sh2	Y	Rog	GSS 8388	2	5	0	4	23	0	3	13	0
sh2	Y	Rog	GSS 8388	2	10	0	3	18	0	3	15	0
sh2	Y	Rog	GSS 8529	4	25	0	3	15	0	4	23	0
sh2	Y	HM	HMX 1399S	3	13	0	2	8	0	4	23	0
sh2	Y	HM	HMX 2388S	1	0	0	1	0	0	3	13	0
sh2	Y	HM	HMX 3391 S	3	15	0	2	3	0	2	10	0
sh2	Y	HM	HMX 4392S	2	5	0	2	5	0	3	13	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
sh2	Y	HM	HMX 4396S	2	5	0	2	3	0	1	0	0
sh2	Y	SnRv	Kahuna	9	70	99	7	60	20	9	65	99
sh2	Y	SnRv	Lancaster	2	5	0	1	0	0	3	13	0
sh2	Y	Cr	Marvel	1	0	0	2	5	0	3	18	0
sh2	Y	HM	Megaton (HMX 1397 S)	4	23	0	1	0	0	4	28	0
sh2	Y	Cen	Mirai 117 Y	4	25	0	2	10	0	4	28	0
sh2	Y	Cen	Mirai 130 Y	3	20	0	2	3	0	4	25	0
sh2	Y	HM	Polaris	3	18	0	3	13	0	3	18	0
sh2	Y	Rog	Prime Plus	2	5	0	3	13	0	2	8	0
sh2	Y	Rog	Primetime	1	0	0	2	10	0	3	13	0
sh2	Y	SnRv	Rising Sun	2	5	0	2	3	0	1	0	0
sh2	Y	HM	Rustler	4	28	0	1	0	0	4	28	0
sh2	Y	IFS	SCH 20705	2	5	0	4	25	0	3	13	0
sh2	Y	IFS	SCH 6144	2	5	0	1	0	0	4	23	0
sh2	Y	IFS	SCH 70064RR	4	30	0	4	23	0	4	25	0
sh2	Y	IFS	SCH 71141	2	8	0	1	0	0	5	28	8
sh2	Y	IFS	SCH 81141	2	10	0	1	0	0	4	28	0
sh2	Y	IFS	SCH23604R	2	5	0	1	0	0	4	15	8
sh2	Y	HM	Sentinel (HMX 0394 S)	3	13	0	2	8	0	3	20	0
sh2	Y	Sem	Sheba	1	0	0	1	0	0	3	18	0
sh2	Y	Sem	Shimmer	2	10	0	2	8	0	3	20	0
sh2	Y	AC	Summer Sweet 610 Y	2	8	0	1	0	0	4	25	0
sh2	Y	AC	Summer Sweet 725 Y	3	20	0	3	18	0	4	25	0
sh2	Y	AC	Summer Sweet 7640R	3	15	0	2	3	0	3	13	0
sh2	Y	AC	Summer Sweet 7650 Y	2	10	0	2	5	0	3	13	0
sh2	Y	AC	Summer Sweet 820 Y	3	18	0	2	10	0	5	33	0
sh2	Y	AC	Summer Sweet 900 Y	2	8	0	2	10	0	4	23	0
sh2	Y	Rog	Supersweet Jubilee Plus	6	40	23	4	25	0	4	25	0
sh2	Y	Sem	SVR 08313770	3	20	0	1	0	0	4	25	0
sh2	Y	Sem	SVR 08716805	1	0	0	1	0	0	4	25	0
sh2	Y	Sem	SVR 08716818	3	15	0	1	0	0	3	18	0
shsy	Y	Sem	SVR 08717175	3	13	0	3	15	0	4	25	0
shsy	Y	Sem	SVR 08717195	2	8	0	1	0	0	3	18	0
sh2	Y	Sem	SVR 08725143	3	20	0	2	10	0	3	15	0
shsy	Y	Sem	SVR 08725193	3	13	0	2	5	0	3	20	0
shsy	Y	Sem	SVR 08735566	2	5	0	1	0	0	3	13	0
sh2	Y	Sem	SVR 08735929	3	15	0	1	0	0	4	15	8
shsy	Y	Sem	SVR 08736091	2	5	0	1	0	0	3	15	0
sh2	Y	IFS	Vision	3	15	0	2	3	0	3	20	0
sh2	Y	IFS	XTH 1171	4	25	0	5	33	8	4	23	0
sh2	Y	IFS	XTH 1174	1	0	0	2	10	0	3	18	0
sh2	Y	IFS	XTH 1178	3	15	0	3	18	0	4	25	0
sh2	Y	IFS	XTH 1179	3	20	0	2	5	0	4	30	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
sh2	Y	IFS	XTH 1181	3	20	0	2	10	0	4	28	0
sh2	Y	IFS	XTH 1182	4	23	0	3	18	0	4	30	0
sh2	Y	IFS	XTH 1183	3	18	0	2	8	0	4	23	0
sh2	Y	IFS	XTH 1184	2	10	0	1	0	0	3	20	0
sh2	Y	IFS	XTH 1272	2	8	0	4	33	5	2	5	0
sh2	Y	IFS	XTH 1274	2	8	0	4	25	5	3	15	0
sh2	Y	IFS	XTH 1275	3	18	0	3	13	0	4	30	0
sh2	Y	IFS	XTH 1277	2	5	0	3	13	0	3	18	0
sh2	Y	IFS	XTH 1278	3	20	0	3	20	0	4	30	0
sh2	Y	IFS	XTH 1279	4	25	0	4	20	5	4	28	0
sh2	Y	IFS	XTH 1280	2	8	0	1	0	0	4	28	0
sh2	Y	IFS	XTH 1281	3	18	0	3	18	0	4	28	0
sh2	Y	IFS	XTH 1282	3	15	0	3	20	0	4	25	0
sh2	Y	IFS	XTH 1283	3	18	0	2	5	0	4	28	0
sh2	Y	IFS	XTH 1284	2	8	0	3	13	0	4	23	0
sh2	Y	IFS	XTH 1373	2	10	0	4	25	0	3	18	0
sh2	Y	IFS	XTH 1374	1	0	0	3	20	0	2	10	0
sh2	Y	IFS	XTH 1377	2	8	0	2	8	0	3	20	0
sh2	Y	IFS	XTH 1474	2	10	0	3	20	0	3	18	0
sh2	Y	IFS	XTH 1475	3	15	0	2	5	0	4	28	0
sh2	Y	IFS	XTH 1574	2	5	0	4	23	8	3	13	0
sh2	Y	IFS	XTH 1575	3	15	0	4	20	3	4	23	0
sh2	Y	IFS	XTH 90570	2	5	0	3	20	0	4	25	0
sh2	BC	IFS	270A	1	0	0	2	3	0	4	30	0
sh2	BC	IFS	272A	2	5	0	1	0	0	3	18	0
sh2	BC	IFS	274A (XTH 2175)	1	0	0	2	3	0	3	20	0
sh2	BC	IFS	275A	2	10	0	2	3	0	3	18	0
sh2	BC	IFS	276A	1	0	0	2	5	0	4	23	0
sh2	BC	IFS	277A	3	10	10	4	23	0	4	25	5
sh2	BC	IFS	278A	3	18	0	2	8	0	4	23	0
sh2	BC	IFS	281A (XTH 2181)	2	8	0	1	0	0	4	28	0
sh2	BC	IFS	282A	2	3	0	2	3	0	4	30	0
sh2	BC	AC	ACX 946 BC	3	18	0	2	8	0	2	8	0
sh2	BC	Rog	BSS 0977	1	0	0	3	13	0	3	15	0
sh2	BC	Rog	BSS 1596	1	0	0	2	5	0	3	18	0
sh2	BC	Rog	BSS 3495	2	5	0	1	0	0	2	10	0
sh2	BC	Rog	BSS 3948	2	5	0	1	0	0	2	8	0
sh2	BC	Rog	BSS 6562	1	0	0	1	0	0	2	8	0
sh2	BC	Rog	BSS 6661	1	0	0	4	23	0	2	8	0
sh2	BC	Rog	BSS 6661 (Rp1-G)	1	0	0	3	20	0	2	8	0
sh2	BC	Cr	CSH BF3-122	5	25	23	2	8	0	4	30	0
sh2	BC	Rog	Double Up	1	0	0	1	0	0	3	13	0
sh2	BC	Sem	Ex 08705788	2	5	0	3	20	0	4	28	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
sh2	BC	Sem	Ex 08716390	2	8	0	2	3	0	3	18	0
shsy	BC	Sem	Ex 08716622	2	5	0	1	0	0	4	30	0
sysy	BC	Sem	Ex 08725230	3	15	0	1	0	0	4	23	0
sysy	BC	Sem	Ex 9362434	2	5	0	1	0	0	3	15	0
sh2	BC	IFS	Fantastic	2	5	0	3	20	0	4	30	0
sh2	BC	GG	GG Code 161	1	0	0	3	20	0	3	15	0
sh2	BC	GG	GG Code 701	2	5	0	1	0	0	2	5	0
sh2	BC	GG	GG Code 702	2	8	0	3	15	0	3	20	0
sh2	BC	GG	GG Code 703	2	5	0	1	0	0	4	30	0
sh2	BC	HM	HMX 2372 BS	2	10	0	1	0	0	4	30	0
sh2	BC	HM	HMX 2374 BS	4	33	0	1	0	0	4	28	0
sh2	BC	Cr	Holiday-CSHBF2-69	2	5	0	2	5	0	3	18	0
sh2	BC	Sem	Hollywood	4	28	0	4	30	0	4	25	0
sh2	BC	IFS	Honey n Pearl	3	13	0	2	8	0	4	25	0
sh2	BC	IFS	Jumpstart RR	2	5	0	1	0	0	3	20	0
sh2	BC	Sem	Madonna R	2	5	0	2	3	0	2	10	0
sh2	BC	Cen	Mirai 301 BC	2	10	0	3	13	0	4	23	0
sh2	BC	Cen	Mirai 308 BC	4	23	0	2	10	0	4	30	0
sh2	BC	Cen	Mirai 327 BC	3	15	0	2	10	0	4	28	0
sh2	BC	Cen	Mirai 334 BC	2	8	0	2	3	0	3	18	0
sh2	BC	IFS	Nordic	3	18	0	3	15	0	4	23	0
shsy	BC	Sem	Obsession	2	5	0	1	0	0	4	28	0
sh2	BC	Cr	Optimum CSHBF2-68	4	23	0	2	3	0	2	5	0
sh2	BC	Cr	Phenomenal	3	15	0	2	3	0	3	20	0
sh2	BC	Sem	Princeton	2	5	0	2	3	0	3	18	0
sh2	BC	IFS	SCH 23604 BC RR	2	3	0	1	0	0	3	18	0
sh2	BC	IFS	SCH 55041	2	5	0	1	0	0	4	25	0
sh2	BC	IFS	SCH 55141	2	5	0	2	3	0	5	20	13
sh2	BC	IFS	SCH 86705	4	28	0	3	20	0	4	28	0
sh2	BC	Cr	Tango	2	5	0	3	13	0	4	25	0
sh2	BC	IFS	XTH 2172	2	8	0	3	20	0	3	20	0
sh2	BC	IFS	XTH 2173	4	30	0	1	0	0	4	23	0
sh2	BC	IFS	XTH 2178	3	20	0	3	15	0	3	20	0
sh2	BC	IFS	XTH 2179	2	10	0	3	13	0	3	18	0
sh2	BC	IFS	XTH 2180	2	5	0	1	0	0	3	18	0
sh2	BC	IFS	XTH 2184	2	8	0	2	5	0	5	33	0
sh2	BC	IFS	XTH 2274	2	3	0	4	25	5	3	13	0
sh2	BC	IFS	XTH 2276	3	13	0	2	3	0	3	20	0
sh2	BC	IFS	XTH 2277	2	10	0	3	13	0	4	23	0
sh2	BC	IFS	XTH 2278	3	15	0	2	8	0	5	33	0
sh2	BC	IFS	XTH 2279	2	5	0	2	3	0	4	25	0
sh2	BC	IFS	XTH 2280	2	5	0	1	0	0	3	18	0
sh2	BC	IFS	XTH 2281	2	5	0	1	0	0	4	30	0

Table 4. Reactions of sweet corn hybrids in the University of Illinois herbicide screen - 2004

ET	KC	SC	Hybrid	Accent			Callisto			Option		
				Rxn	Rating		Rxn	Rating		Rxn	Rating	
					7d	21d		7d	21d		7d	21d
sh2	BC	IFS	XTH 2377	2	5	0	3	20	0	3	13	0
sh2	BC	IFS	XTH 2379	2	8	0	1	0	0	3	13	0
sh2	BC	IFS	XTH 2381	2	10	0	3	13	0	5	35	0
sh2	BC	IFS	XTH 2477	2	5	0	4	35	0	5	30	10
sh2	BC	IFS	XTH 86804	2	10	0	1	0	0	4	28	0
sh2	W	IFS	372A	3	18	0	2	10	0	4	25	0
sh2	W	IFS	375A (XTH 98990R)	2	5	0	2	3	0	3	18	0
sh2	W	IFS	377A (277AWT)	2	10	0	3	18	0	3	20	0
sh2	W	IFS	378A	1	0	0	1	0	0	3	13	0
sh2	W	IFS	382A	2	8	0	2	8	0	4	23	0
shsy	W	Sem	Ex 08413133	3	15	0	3	20	0	4	28	0
sh2	W	Sem	Ex 08705770	8	28	73	6	45	18	7	33	50
sh2	W	Sem	Ex 08716612	2	5	0	2	8	0	4	25	0
sh2	W	HM	HMX 2376 WS	4	28	0	2	3	0	4	23	0
sh2	W	Cr	How Sweet It Is	1	0	0	4	28	0	3	13	0
sh2	W	Sak	K0-305	3	13	0	1	0	0	3	15	0
sh2	W	Sak	K0-305A	3	18	0	2	10	0	3	20	0
sh2	W	Sak	K0-305B	2	10	0	2	5	0	4	30	0
sh2	W	Sak	K2- 501	2	5	0	1	0	0	2	5	0
sh2	W	Sak	K2- 501A	3	13	0	2	10	0	3	13	0
sh2	W	Sak	K2-501B	3	15	0	2	3	0	3	18	0
sh2	W	Sak	K3-312	4	30	0	3	13	0	5	33	0
sh2	W	Sak	Millenium	3	18	0	3	15	0	4	23	0
sh2	W	Cen	Mirai 421 W	3	13	0	2	5	0	3	13	0
sh2	W	HM	Mont Blanc (HMX 0356 WS)	2	10	0	2	5	0	2	5	0
sh2	W	HM	Snow White	4	33	0	1	0	0	3	18	0
sh2	W	AC	Summer Sweet 7631 W	3	15	0	2	3	0	4	25	0
sh2	W	AC	Summer Sweet 781 Ultra	1	0	0	2	8	0	2	10	0
shsy	W	Sem	SVR 08737068	3	13	0	4	23	0	4	23	0
shsy	W	Sem	SVR 08737069	2	5	0	2	10	0	4	25	0
sh2	W	HM	Sweet Magic	2	10	0	1	0	0	4	25	0
sh2	W	Cen	Taste 418 W	2	8	0	3	18	0	3	20	0
sh2	W	Rog	WSS 9842	2	5	0	3	20	0	2	10	0
sh2	W	IFS	XTH 3173	2	10	0	4	30	5	4	25	0
sh2	W	IFS	XTH 3180	3	18	0	1	0	0	4	28	0
sh2	W	IFS	XTH 3181	3	15	0	1	0	0	4	23	0

Rxn - classification of hybrid reactions: 1 - no damage, 3 - tolerant, 5 - modest tolerance,
7 - modest intolerance, 9 - intolerant

Rate - herbicide rating: 0 to 100% damage (7 days and 21 days after application)

Seed source: AC - Abbott & Cobb, Cen - Centest, Cr - Crookham, GG - Green Giant, HM - Harris Moran,
IFS - Illinois Foundation Seeds, MM - Mesa Maize, Rog - Rogers (Syngenta), Sak - Sakata,
Sem - Seminis, SnRv - Snowy River