The University of Tennessee
Agricultural Experiment Station
Department of Plant and Soil Science

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Performance of Corn Hybrids in 1986

Charles R. Graves

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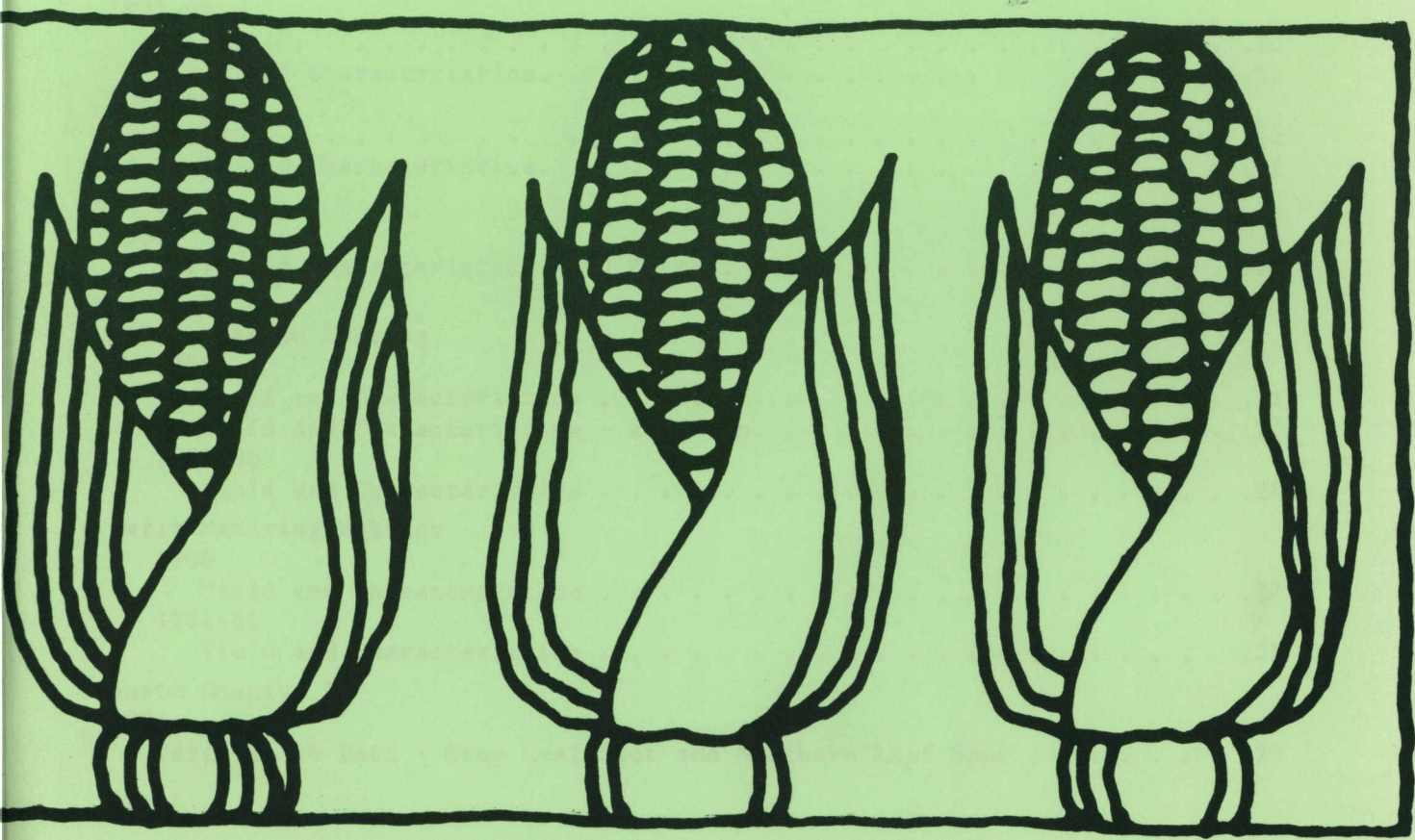

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PERFORMANCE OF CORN HYBRIDS IN 1986[1/]

Charles R. Graves[2/]

The medium-season state corn hybrid tests were conducted at seven locations, the full-season at four, and the early-maturing hybrids at five locations. Corn yields at Greeneville and Crossville were reduced due to severe drought during silking and tasseling. The yields in West Tennessee were good to excellent in 1986.

All tests were over-planted and thinned to about 20,000 to 26,000 plants per acre. Population varied from location to location but the population was the same for all varieties at a given location. The reason for the variation from location was due to the changes in spacing between the rows, with the spacing within the row remaining the same. Most tests were conducted using thirty-six inches between rows, but at Milan the spacing between rows was thirty inches. The tests were fertilized with 150 pounds or more of nitrogen per acre. At least as much phosphorous and potassium were applied as recommended by soil test recommendation, sometimes more. The plot size for hand-harvested plots in most cases was two rows 11 feet long, and for the mechanically harvested plots yields were obtained from two rows 25 to 30 feet in length. Plots were replicated four times. The corn hybrid studies at Jackson, Martin, and Milan were harvested with a picker-sheller and all other tests were harvested by hand in 1986.

Corn yields are expressed in bushels per acre, adjusted to 15.5 percent moisture. The percent grain moisture at harvest is presented to show the relative maturity of each hybrid.

The five leading medium-season hybrids in the regular test in 1986 were DeKalb-Pfizer DK-711, DeKalb-Pfizer DK-748, Stauffer 8500, FFR 811C, and Pioneer brand 3147, a full-season hybrid included as a check hybrid. In the extra medium-season hybrid test, the highest producing hybrids were McCurdy 7800, T. E. 6996, Pioneer brand 3320, and Agri Pro HP 77.

The four leading hybrids in the full-season test in 1986 were Pioneer brand 3165, Cargill 980, Bailey SX651, and Pioneer brand 3187.

The highest producing early-maturing hybrids in 1986 were Asgrow/O's Gold 2570, Pioneer brand 3389, DeKalb-Pfizer DK-636, Asgrow/O's Gold Experimental 5L34A11, and Pioneer brand 3358.

[1/]These results will be included in the 1986 Bulletin, Performance of Field Crop Varieties, which will be available in 1987.

[2/]Professor of Plant and Soil Science.

The Recommended Corn Hybrids for 1987 are as Follows:
3 Year Average (1984-86)

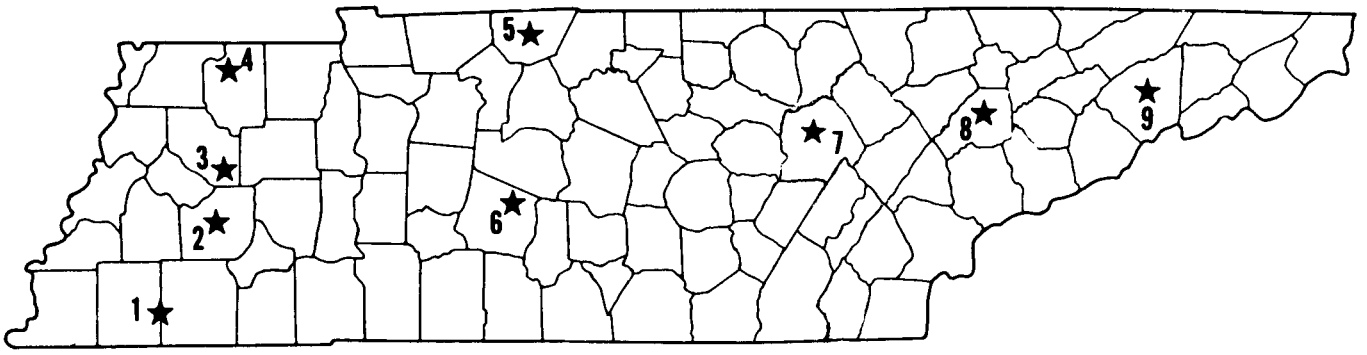
Make yield comparisons only within a given maturity group because all maturity groups are not evaluated at the same locations.

Maturity Group	Grain Color	Hybrid	Tolerance[2/] to Corn Virus Complex	Erect Plants	Quality Rating	Moisture at Harvest	Yield
				%	(1-9)	%	Bu/A
	Yellow	Pioneer brand 3389	Med-Low	100	2.5	20.6	148
		Asgrow/O's Gold 2570	Low	99	2.9	22.3	147
		McCurdy 7676	Low	99	2.7	21.9	146
		FFR 788C	Low	100	3.4	21.7	143
		Pioneer brand 3358	Low	100	2.8	21.6	141
		FFR 747C	Low	100	2.3	20.9	139
		USS 7001	Low	100	3.4	21.5	138
		Super Crost 5438	Low	100	3.3	21.4	138
		Funk G-4522	Low	100	2.7	21.6	138
		Asgrow/O's Gold 3344	Med-Low	99	3.0	20.9	137
		Beck's 65X	Low	99	3.2	21.2	137
		DeKalb-Pfizer DK-656	Low	100	2.9	21.4	136
		FFR 799C[1/4/]	Low	-	-	-	-
		N.K. PX 79[1/]	Med-Low	-	-	-	-
	Yellow	DeKalb-Pfizer DK-748[3/]	Low	-	-	-	-
		DeKalb-Pfizer DK-689	Med-High	97	2.6	19.1	158
		Zimmerman Z-27Y	Low	95	2.7	20.4	157
		Asgrow/O's Gold 5509	Low	93	3.4	20.4	153
		Funk G-4765	Low	95	3.5	20.1	152
		Coker 21	Low	93	3.6	20.4	151
		Pioneer brand 3320	Low	97	2.5	18.7	150
		McCurdy 8150	Low	94	3.1	20.4	150
		RA 1502	Low	93	3.2	18.8	150
		McCurdy 84AA	Low	91	3.5	19.8	149
		Beck's 85XA	Med	99	3.2	20.1	149
		SeedTec H-2686A	Low	94	3.4	20.0	149
		Funk G-4733	Med	96	2.5	20.3	148
		Pioneer brand 3184	Med-Low	98	3.5	20.2	147
		Coker 19A[1/]	Low	96	3.8	19.0	143
		FFR 848C[1/]	Med	95	2.9	18.7	138
	White	Asgrow/O's Gold 2680W[1/]	Med	90	3.8	20.5	136
	Yellow	Pioneer brand 3165	Low	98	2.9	22.2	139
		DeKalb-Pfizer DK-789	Med-High	94	3.4	24.2	124
		Funk G-4858	Low	95	3.2	23.7	124
		GK 900	Med-High	98	3.0	22.4	124
		Pioneer brand 3147	Med-High	93	4.0	23.2	124
		Cargill 980	Low	93	3.1	23.2	124
		McCurdy 8172	Med-Low	95	2.8	23.5	121
		Paymaster 8990	Low	94	2.9	22.7	119
		FFR 955C[1/]	Med-High	92	3.1	22.6	116
		USS 2020[1/4/]	Low	-	-	-	-
	White	GK 927W	Med-Low	88	3.3	24.2	123
		Zimmerman Z-14W	Med-High	93	2.9	22.7	123
		Zimmerman Z-11W	Med-High	90	2.9	24.1	122
		FFR 929W[1/]	Med	91	2.9	24.3	115
		RA 2606W[1/4/]	Low	-	-	-	-
		Golden Harvest H-2660W[1/4/]	Med	-	-	-	-
		Princeton SX910[1/4/]	Med	-	-	-	-

[1/]Present plans indicate that this hybrid will not be recommended after 1987. [2/]Hybrids rated lower than medium-high are not recommended under heavy virus conditions. [3/]Evaluated in 1984 as DK-747. [4/]Not evaluated in 1986.

Tables and Figure of 1986 Corn Hybrids Tests

Figure 1. Locations of corn hybrids tests.



1. Ames Plantation, Fayette and Hardeman Counties, Grand Junction.
2. West Tennessee Experiment Station, Madison County, Jackson.
3. Milan Experiment Station, Gibson County, Milan.
4. Martin Experiment Station, Weakley County, Martin.
5. Highland Rim Experiment Station, Robertson County, Springfield.
6. Middle Tennessee Experiment Station, Maury County, Spring Hill.
7. Plateau Experiment Station, Cumberland County, Crossville.
8. Knoxville Experiment Station, Knox County.
9. Tobacco Experiment Station, Greene County, Greeneville.

Table 1. Corn: Yield of medium-season hybrids evaluated at five locations in 1986.

Color	Cross	Hybrid	Avg.	1/ Knoxville	2/ Spring Hill	3/ Springfield	4/ Martin	4/ Milan
				Bushels per acre				
y	2X	DeKalb-Pfizer DK-711	143	160	82	166	134	171
y	2X	Pioneer brand 3147	142	164	77	175	149	144
y	2X	DeKalb-Pfizer DK-748	140	162	87	153	133	163
y	2X	Stauffer 8500	138	153	80	153	144	158
y	2X	FFR 811C	138	141	84	156	140	167
y	2X	Funk G-6066X	135	167	74	143	135	157
y	2X	DeKalb-Pfizer DK-689	135	148	82	148	137	158
y	2X	SeedTec H-2675	133	155	79	146	131	152
y	2X	Jacques 8350	132	165	90	140	118	148
y	2X	Zimmerman Z-27Y	131	131	70	160	151	144
y	2X	McCurdy 8150	131	146	77	141	132	158
y	2X	N.K. PX9540	130	145	81	140	134	153
y	2X	SeedTec H-2686A	130	154	69	149	133	148
y	2X	G.K. 750	130	146	81	142	132	150
y	2X	FFR 848c	129	139	80	152	130	144
y	2X	Asgrow/O's Gold 5509	129	152	63	147	117	164
y	2X	McCurdy 84AA	128	138	68	147	129	160
y	2X	Stauffer S7759	128	142	78	133	128	159
y	2X	Funk G-4765	128	160	70	134	125	148
y	M2X	Funk G-4733	127	157	70	141	124	144
y	2X	Asgrow/O's Gold RX892	127	142	81	136	128	147
w	2X	Funk G-6044w	127	140	70	141	138	144
y	2X	RA 1502	126	150	66	146	124	147
y	2X	Pioneer brand 3320	126	141	71	142	135	143
y	2X	N.K. PX9581	126	145	77	134	126	147
y	2X	Pioneer brand 3184	126	146	80	133	132	136
y	M2X	Coker 19A	125	133	74	137	134	148
y	2X	P.A.G. SX352	125	127	76	138	133	152
y	2X	Jacques 8250	125	142	74	145	126	138
y	2X	Cargill 967	125	139	68	138	136	144
y	2X	Coker 8625	125	149	78	119	133	145
y	M2X	TN 82035	124	139	73	141	124	142
w	2X	Asgrow/O's Gold 2680w	123	145	66	136	121	146
y	2X	Coker 21	123	151	59	129	121	153
y	M2X	Funk G-4614	122	142	79	129	130	132
y	2X	Paymaster 7990	122	120	69	144	130	144
y	M2X	Funk G-4734	120	142	59	134	120	143
y	2X	FFR 815C	119	132	65	133	125	139
y	2X	Beck's 85XA	119	146	72	135	114	126
w	2X	TN 85003	118	125	70	137	127	129
L.S.D. (.05)			7.7	27.6	13.9	17.4	14.4	15.1
C.V. %			9.7	13.6	13.4	8.8	7.9	7.3
Avg.			128.0	146.0	74.2	142.0	130.0	148.0

1/Sequatchie silt loam (2% to 5% slopes).
2/Maury silt loam (2% to 5% slopes).
3/Huntington silt loam (2% to 5% slopes).
4/Falaya silt loam (2% to 5% slopes).

Table 2. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations in 1986.

Color	Cross	Hybrid	Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	DeKalb-Pfizer DK-711	143	98	2.6	3.8	54	18.3
y	2X	Pioneer brand 3147	142	96	4.6	3.7	56	18.6
y	2X	DeKalb-Pfizer DK-748	140	97	3.4	2.5	59	18.1
y	2X	Stauffer 8500	138	97	2.4	4.5	54	17.9
y	2X	FFR 811C	138	97	3.6	4.7	52	17.0
y	2X	Funk G-6066X	135	99	2.4	2.3	54	16.5
y	2X	DeKalb-Pfizer DK-689	135	98	2.6	2.8	55	17.4
y	2X	SeedTec H-2675	133	92	2.8	2.8	52	17.6
y	2X	Jacques 8350	132	98	2.6	3.2	54	17.6
y	2X	Zimmerman Z-27Y	131	96	3.0	3.7	56	16.2
y	2X	McCurdy 8150	131	96	2.8	2.5	59	19.1
y	2X	N.K. PX9540	130	98	2.8	3.2	50	16.1
y	2X	SeedTec H-2686A	130	96	2.8	2.7	55	19.4
y	2X	G.K. 750	130	99	2.4	2.7	52	15.9
y	2X	FFR 848c	129	98	3.2	2.3	58	17.1
y	2X	Asgrow/O's Gold 5509	129	92	3.2	2.8	54	19.1
y	2X	McCurdy 84AA	128	90	3.2	3.5	53	18.4
y	2X	Stauffer S7759	128	98	3.6	4.5	55	16.2
y	2X	Funk G-4765	128	98	3.2	3.3	54	18.2
y	M2X	Funk G-4733	127	97	2.8	2.7	52	18.7
y	2X	Asgrow/O's Gold RX892	127	94	3.0	3.5	55	17.9
w	2X	Funk G-6044w	127	90	3.0	2.8	53	19.9
y	2X	RA 1502	126	92	3.4	3.2	50	17.6
y	2X	Pioneer brand 3320	126	96	2.4	3.3	52	17.0
y	2X	N.K. PX9581	126	95	2.8	3.3	52	17.6
y	2X	Pioneer brand 3184	126	99	3.2	3.5	50	18.3
y	M2X	Coker 19A	125	97	3.4	3.3	54	17.7
y	2X	P.A.G. SX352	125	97	3.4	4.5	55	15.8
y	2X	Jacques 8250	125	98	4.0	3.5	53	16.8
y	2X	Cargill 967	125	97	4.4	4.8	54	16.4
y	2X	Coker 8625	125	98	2.6	2.8	50	15.9
y	M2X	TN 82035	124	97	2.4	4.0	54	17.7
w	3X	Asgrow/O's Gold 2680w	123	93	3.4	2.3	58	19.5
y	2X	Coker 21	123	94	3.2	3.3	53	18.8
y	M2X	Funk G-4614	122	95	3.2	3.3	53	17.8
y	2X	Paymaster 7990	122	99	4.4	4.5	50	16.7
y	M2X	Funk G-4734	120	98	3.0	3.2	55	19.0
y	2X	FFR 815C	119	99	4.0	4.7	52	16.9
y	2X	Beck's 85XA	119	100	3.0	2.3	52	18.4
w	2X	TN 85003	118	97	2.8	2.3	54	17.4
L.S.D. (.05)			7.7					
C.V. %			9.7					
Avg.			128.0					

[1/]Ratings based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 3. Corn: Yield of 24 extra medium-season hybrids evaluated at five locations in 1986.

Color	Cross	Hybrid	Avg.	1/ Knoxville	2/ Spring Hill	3/ Springfield	4/ Martin	4/ Milan	5/6/ Greeneville
			Bushels per acre						
y	2X	McCurdy 7800	141	178	79	159	127	160	38
y	2X	T.E. 6996	138	177	72	147	131	160	40
y	2X	Pioneer brand 3320	138	174	85	151	126	151	42
y	2X	Agri Pro HP 77	136	182	79	154	112	154	42
y	2X	T.E. 6994	133	167	77	130	131	158	43
y	2X	SeedTec ST-7750	132	174	79	142	113	152	43
w	2X	Asgrow/O's Gold RX956W	129	168	64	149	109	156	42
y	2X	SeedTec H-2601	129	153	72	148	121	152	39
y	2X	Asgrow/O's Gold RX860	129	170	67	143	122	144	40
y	2X	Zimmerman Z-28	129	157	64	151	111	162	38
y	2X	Cargill 971	129	156	68	139	121	159	42
y	2X	Princeton SX865	129	173	75	142	114	139	36
y	M2X	Super Crost 5454	127	148	63	151	118	153	40
y	M2X	Gold Medal 984	126	169	62	132	117	152	32
y	M2X	Gold Medal 3357	126	160	68	148	107	145	42
y	2X	Agri Pro 830	125	162	58	153	99	150	46
y	M2X	Gold Medal 335	124	160	69	147	106	140	44
y	2X	Super Crost 5438	124	146	67	137	118	152	38
w	2X	SeedTec H-2625W	124	144	56	158	108	152	37
y	2X	FFR 810C	123	150	68	136	108	153	42
w	3X	Funk G-6054W	121	153	61	142	103	148	30
y	2X	T.E. 6995A	121	150	64	140	110	142	37
y	2X	Cargill 973	121	150	68	126	114	146	45
y	2X	Asgrow/O's Gold RX798	120	148	60	139	102	150	36
L.S.D. (.05)			15.4	16.2	10.4	N.S.	18.0	15.4	N.S.
C.V. %			9.1	7.1	10.8	11.5	11.1	7.2	18.6
Avg.			128.0	161.3	68.5	144.6	114.5	151.3	39.8

1/Sequatchie silt loam (2% to 5% slopes).
2/Maury silt loam (2% to 5% slopes).
3/Huntington silt loam (2% to 5% slopes).
4/Falaya silt loam (2% to 5% slopes).
5/Waynesboro silt loam (2% to 5% slopes).
6/Not included in average because of high C.V. due to severe drought.

Table 4. Corn: Yield and other characteristics of 24 extra medium-season hybrids evaluated at five locations in 1986.

Color	Cross	Hybrid	Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[1/]	Rating[1/]	In.	%
y	2X	McCurdy 7800	141	3.5	4.0	50	16.0
y	2X	T.E. 6996	138	2.5	4.5	54	16.2
y	2X	Pioneer brand 3320	138	2.0	3.0	44	15.8
y	2X	Agri Pro HP 77	136	2.5	3.5	52	15.8
y	2X	T.E. 6994	133	3.0	2.5	58	15.4
y	2X	SeedTec ST-7750	132	3.0	2.0	52	15.0
w	2X	Asgrow/O's Gold RX956W	129	2.0	3.5	52	17.2
y	2X	SeedTec H-2601	129	4.5	5.0	51	14.9
y	2X	Asgrow/O's Gold RX860	129	3.0	2.5	49	15.8
y	2X	Zimmerman Z-28	129	3.5	4.5	55	14.8
y	2X	Cargill 971	129	4.0	3.0	50	15.2
y	2X	Princeton SX865	129	2.0	2.5	54	16.0
y	M2X	Super Crost 5454	127	3.5	4.0	53	14.7
y	M2X	Gold Medal 984	126	2.5	2.0	51	15.6
y	M2X	Gold Medal 3357	126	4.0	3.5	56	15.1
y	2X	Agri Pro 830	125	3.0	3.5	55	15.4
y	M2X	Gold Medal 335	124	3.5	5.0	57	15.4
y	2X	Super Crost 5438	124	4.0	4.5	52	15.0
w	2X	SeedTec H-2625W	124	2.5	3.0	52	16.6
y	2X	FFR 810C	123	2.0	4.0	54	15.4
w	3X	Funk G-6054W	121	2.5	3.0	56	15.8
y	2X	T.E. 6995A	121	3.5	4.0	53	14.4
y	2X	Cargill 973	121	2.5	3.5	46	15.0
y	2X	Asgrow/O's Gold RX798	120	3.0	3.0	52	15.2
L.S.D. (.05)			15.4				
C.V. %			9.1				
Avg.			128.0				

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 5. Corn: Yield of medium-season hybrids evaluated at five locations for two years (1985-86).

Color	Cross	Hybrid	2 Yr. Avg.	Knoxville	Spring Hill	Springfield	Martin	Milan
					Bushels per acre			
y	2X	Pioneer brand 3147	152	160	102	178	153	168
y	2X	DeKalb-Pfizer DK-689	150	152	104	157	159	178
y	2X	DeKalb-Pfizer DK-748	149	153	96	161	147	188
y	2X	Stauffer 8500	148	146	100	161	157	178
y	2X	Zimmerman Z-27Y	148	138	96	164	165	177
y	2X	FFR 811C	146	138	96	153	154	191
y	2X	SeedTec H-2686A	145	143	92	162	152	176
y	2X	McCurdy 8150	145	144	96	153	160	171
y	2X	Asgrow/O's Gold 5509	144	148	84	162	135	190
y	3X	Funk G-4765	144	148	97	155	145	172
y	2X	Pioneer brand 3320	143	144	100	147	155	171
y	2X	Beck's 85XA	143	150	102	153	142	169
y	2X	McCurdy 84AA	143	140	90	158	148	180
y	2X	RA 1502	142	148	91	150	149	170
y	2X	Pioneer brand 3184	141	143	98	155	143	164
y	2X	Asgrow/O's Gold RX892	140	142	93	148	144	174
y	3X	Stauffer S7759	140	137	94	140	152	179
y	2X	Cargill 967	140	141	87	156	145	171
y	2X	Coker 21	140	147	86	150	138	177
y	M2X	Coker 19A	139	135	89	143	154	172
y	2X	P.A.G. SX352	139	133	87	145	153	174
y	2X	Coker 8625	138	143	94	136	158	161
y	2X	SeedTec H-2675	138	143	90	144	146	168
y	M2X	Funk G-4733	138	148	92	154	136	162
y	2X	N.K. PX 9581	138	140	94	143	142	172
y	2X	N.K. PX 9540	138	135	94	140	154	168
y	M2X	TN 82035	137	142	88	150	136	170
w	3X	Asgrow/O's Gold 2680W	136	140	94	150	130	165
y	2X	FFR 848C	134	131	94	142	142	163
y	M2X	Funk G-4734	134	137	84	143	136	167
w	2X	TN 850003	134	134	88	139	149	161
y	M2X	Funk G-4614	133	140	92	139	145	150

Table 6. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations for two years (1985-86).

Color	Cross	Hybrid	2 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3147	152	90	4.4	3.8	55	19.5
y	2X	DeKalb-Pfizer DK-689	150	97	2.8	3.0	56	17.9
y	2X	DeKalb-Pfizer DK-748	149	95	3.6	2.9	57	18.3
y	2X	Stauffer 8500	148	94	2.4	4.3	53	18.5
y	2X	Zimmerman Z-27Y	148	93	2.9	4.1	56	16.7
y	2X	FFR 811C	146	97	4.1	4.8	51	17.6
y	2X	SeedTec H-2686A	145	94	3.3	3.4	53	18.9
y	2X	McCurdy 8150	145	94	3.1	2.9	58	19.6
y	2X	Asgrow/O's Gold 5509	144	89	3.3	3.0	53	19.4
y	3X	Funk G-4765	144	94	3.4	3.4	54	19.2
y	2X	Pioneer brand 3320	143	95	2.4	3.4	52	17.6
y	2X	Beck's 85XA	143	99	3.2	2.8	52	19.0
y	2X	McCurdy 84AA	143	88	3.3	3.6	52	18.8
y	2X	RA 1502	142	90	3.2	3.6	50	18.1
y	2X	Pioneer brand 3184	141	98	3.6	4.0	50	19.3
y	2X	Asgrow/O's Gold RX892	140	92	3.1	3.6	54	18.1
y	3X	Stauffer S7759	140	97	3.4	4.4	55	16.6
y	2X	Cargill 967	140	94	4.4	4.6	54	16.6
y	2X	Coker 21	140	90	3.4	3.5	52	19.3
y	M2X	Coker 19A	139	95	4.1	3.6	53	17.9
y	2X	P.A.G. SX352	139	93	3.4	4.3	54	16.1
y	2X	Coker 8625	138	98	2.9	3.3	50	16.1
y	2X	SeedTec H-2675	138	89	3.3	2.9	51	18.0
y	M2X	Funk G-4733	138	95	2.6	3.1	52	19.4
y	2X	N.K. PX 9581	138	93	3.0	3.4	52	18.0
y	2X	N.K. PX 9540	138	96	2.5	3.4	49	16.3
y	M2X	TN 82035	137	95	2.8	3.9	52	17.8
w	3X	Asgrow/O's Gold 2680W	136	89	3.3	2.7	57	20.0
y	2X	FFR 848C	134	96	3.2	3.2	56	17.7
y	M2X	Funk G-4734	134	96	2.7	3.4	54	19.8
w	2X	TN 850003	134	96	3.3	2.9	53	17.5
y	M2X	Funk G-4614	133	94	2.9	3.4	53	18.0

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 7. Corn: Yield of medium-season hybrids evaluated at five locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg.	Knox-ville	Spring Hill	Spring-field	Martin	Milan
					Bushels per acre			
y	2X	Pioneer brand 3147	162	169	121	181	166	174
y	2X	DeKalb-Pfizer DK-689	158	158	119	159	168	184
y	2X	Zimmerman Z-27Y	157	148	116	170	174	177
y	2X	Asgrow/O's Gold 5509	153	157	104	167	149	185
y	3X	Funk G-4765	152	155	109	160	161	176
y	2X	Coker 21	151	158	107	156	150	182
y	2X	Pioneer brand 3320	150	151	113	151	163	174
y	2X	McCurdy 8150	150	152	107	158	166	170
y	2X	RA 1502	150	155	109	157	157	172
y	2X	McCurdy 84AA	149	147	102	160	158	179
y	2X	Beck's 85XA	149	152	116	157	154	167
y	2X	SeedTec H-2686A	149	154	101	162	155	172
y	M2X	Funk G-4733	148	153	109	157	150	168
y	2X	Pioneer brand 3184	147	149	111	160	147	167
y	2X	Cargill 967	145	140	97	152	157	173
y	2X	N.K. PX 9581	144	143	107	151	154	167
y	2X	FFR 811C	144	136	100	147	158	178
y	3X	Stauffer S7759	144	137	104	148	165	170
y	M2X	Coker 19A	143	141	102	148	155	170
y	M2X	Funk G-4734	142	145	102	149	146	169
y	2X	P.A.G. SX352	142	133	100	145	164	167
y	2X	FFR 848C	138	138	106	146	147	159
w	3X	Asgrow/O's Gold 2680W	136	139	98	149	138	157

Table 8. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3147	162	92	4.4	3.9	56	20.7
y	2X	DeKalb-Pfizer DK-689	158	97	2.6	2.7	55	19.1
y	2X	Zimmerman Z-27Y	157	95	2.7	3.8	57	17.6
y	2X	Asgrow/O's Gold 5509	153	93	3.4	2.9	52	20.4
y	3X	Funk G-4765	152	95	3.5	3.2	55	20.1
y	2X	Coker 21	151	93	3.6	3.2	52	20.4
y	2X	Pioneer brand 3320	150	97	2.5	3.0	52	18.7
y	2X	McCurdy 8150	150	94	3.1	2.8	58	20.4
y	2X	RA 1502	150	93	3.2	3.5	51	18.8
y	2X	McCurdy 84AA	149	91	3.5	3.5	52	19.8
y	2X	Beck's 85XA	149	99	3.2	2.9	52	20.1
y	2X	SeedTec H-2686A	149	94	3.4	3.7	54	20.0
y	M2X	Funk G-4733	148	96	2.5	2.9	52	20.3
y	2X	Pioneer brand 3184	147	98	3.5	4.4	50	20.2
y	2X	Cargill 967	145	94	4.6	4.5	54	17.5
y	2X	N.K. PX 9581	144	94	3.2	3.4	52	18.9
y	2X	FFR 811C	144	97	4.2	4.8	51	18.8
y	3X	Stauffer S7759	144	97	3.5	4.5	55	17.4
y	M2X	Coker 19A	143	96	3.8	3.3	53	19.0
y	M2X	Funk G-4734	142	96	2.7	3.2	54	20.9
y	2X	P.A.G. SX352	142	94	3.5	4.3	54	17.2
y	2X	FFR 848C	138	95	2.9	3.1	56	18.7
w	3X	Asgrow/O's Gold 2680W	136	90	3.8	3.0	58	20.5

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 9. Corn: Yield of full-season hybrids evaluated at four locations in 1986.

Color	Cross	Hybrid	Avg.	1/ Knoxville	2/ Spring Hill	3/ Jackson	4/ Ames Plantation
			Bushels per acre				
y	2X	Pioneer brand 3165	120	154	69	124	133
y	2X	Cargill 980	118	132	70	125	143
y	2X	Bailey SX651	116	134	79	115	135
y	2X	Pioneer brand 3187	116	136	82	119	126
y	2X	GK 850	113	136	67	120	129
w	2X	TN 840023	112	138	80	114	119
y	2X	GK 900	112	132	75	111	130
y	2X	P.A.G. SX383	111	128	68	114	135
w		Pioneer brand 3144W	111	126	73	104	142
y	2X	Gold Medal 1070	111	135	74	116	117
y	2X	Jacques 8400	110	136	80	104	123
y	2X	Stauffer S8655	110	130	82	107	123
y	2X	McCurdy 8172	110	129	68	123	119
y	M2X	Bailey SX684	109	139	75	107	114
y	2X	Paymaster 8990	108	124	67	118	125
w	2X	Zimmerman Z-60W	108	134	67	115	116
w	2X	Zimmerman Z-14W	108	132	68	107	124
y	M2X	Super Crost E118	106	121	74	109	121
w	3X	GK 927W	105	143	60	92	123
y	M2X	Funk G-4858	105	136	61	105	117
y	2X	DeKalb-Pfizer DK-789	104	136	65	96	121
w		Zimmerman Z-54	104	121	64	106	123
w	2X	FFR 925W	104	132	60	105	118
w	2X	FFR 717W	103	120	66	109	117
y	M2X	Sunbelt 1816	103	134	65	97	115
y	2X	Pioneer brand 3147	102	117	65	97	131
w	3X	DeKalb-Pfizer DK-77W	102	138	57	99	115
y	M3X	Funk G-4868	102	144	54	99	110
y	2X	Sun Prairie SP550	102	114	72	102	115
y	2X	N.K. PX95	99	117	54	108	118
y	2X	Super Crost E119	98	127	67	101	100
w	2X	Zimmerman Z-11W	98	126	53	87	127
w	M2X	T82-2051	98	137	50	87	115
w	2X	Princeton SX906	96	120	63	95	106
y	2X	Jacques 8700	96	112	57	100	115
y	M2X	Gold Medal 770	95	122	64	84	112
y	2X	Stauffer S8818	95	111	52	112	105
w	2X	Princeton SX933	94	113	59	99	104
w	3X	FFR 929W	93	114	54	84	118
y	M2X	FFR 955C	92	102	51	99	115
y	3X	Asgrow/O's Gold 5L44E11	87	107	56	90	96
w	3X	Funk G-4787W	76	105	46	65	87
L.S.D. (.05)			18.2	21.2	13.7	17.3	15.7
C.V. %			11.2	11.9	15.0	11.9	9.4
Avg.			103.9	127.3	65.1	104.0	119.0

1/Sequatchie silt loam (2% to 5% slopes).
2/Maury silt loam (2% to 5% slopes).
3/Memphis silt loam (2% to 5% slopes).
4/Loring silt loam (2% to 5% slopes).

Table 10. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations in 1986.

Color	Cross	Hybrid	Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3165	120	99	2.8	3.2	54	22.5
y	2X	Cargill 980	118	89	3.5	1.8	54	22.9
y	2X	Bailey SX651	116	98	4.0	4.5	55	20.5
y	2X	Pioneer brand 3187	116	96	2.6	3.2	54	21.7
y	2X	GK 850	113	95	2.8	4.5	53	21.3
w	2X	TN 840023	112	88	3.2	3.2	57	22.5
y	2X	GK 900	112	97	4.0	4.5	53	22.6
y	2X	P.A.G. SX383	111	87	3.8	3.5	53	22.6
w		Pioneer brand 3144W	111	96	3.5	4.0	59	22.1
y	2X	Gold Medal 1070	111	99	3.2	2.5	53	20.5
y	2X	Jacques 8400	110	97	3.8	5.0	51	22.7
y	2X	Stauffer S8655	110	97	4.0	3.2	54	20.2
y	2X	McCurdy 8172	110	96	3.0	4.0	54	23.9
y	M2X	Bailey SX684	109	97	3.5	2.8	55	21.6
y	2X	Paymaster 8990	108	90	3.7	3.2	52	22.9
w	2X	Zimmerman Z-60W	108	93	3.3	2.8	56	22.7
w	2X	Zimmerman Z-14W	108	89	3.2	2.5	54	22.3
y	M2X	Super Crost E118	106	97	3.8	3.2	51	19.4
w	3X	GK 927W	105	84	3.4	3.0	55	25.8
y	M2X	Funk G-4858	105	93	3.5	3.2	54	24.6
y	2X	DeKalb-Pfizer DK-789	104	92	3.8	3.5	53	22.6
w		Zimmerman Z-54	104	92	3.0	2.5	55	23.0
w	2X	FFR 925W	104	94	3.6	2.2	57	22.9
w	2X	FFR 717W	103	81	3.5	3.0	50	24.1
y	M2X	Sunbelt 1816	103	96	3.8	3.8	56	24.6
y	2X	Pioneer brand 3147	102	94	4.8	3.8	53	22.5
w	3X	DeKalb-Pfizer DK-77W	102	94	3.3	2.8	60	23.2
y	M3X	Funk G-4868	102	97	3.5	2.5	56	28.4
y	2X	Sun Prairie SP550	102	90	4.0	4.8	50	21.4
y	2X	N.K. PX95	99	86	3.4	3.5	58	22.8
y	2X	Super Crost E119	98	98	4.0	3.0	55	21.0
w	2X	Zimmerman Z-11W	98	91	3.6	3.0	56	24.8
w	M2X	T82-2051	98	97	3.5	2.2	58	25.7
w	2X	Princeton SX906	96	94	4.0	3.0	55	25.6
y	2X	Jacques 8700	96	93	3.8	3.2	52	22.5
y	M2X	Gold Medal 770	95	92	4.0	4.8	54	21.6
y	2X	Stauffer S8818	95	91	3.8	3.5	52	23.7
w	2X	Princeton SX933	94	90	3.7	3.8	54	25.0
w	3X	FFR 929W	93	91	3.6	2.5	57	26.0
y	M2X	FFR 955C	92	93	4.0	3.0	57	23.8
y	3X	Asgrow/O's Gold 5L44E11	87	96	3.5	3.8	55	21.5
w	3X	Funk G-4787W	76	95	4.6	2.5	57	26.0
L.S.D. (.05)			18.2					
C.V. %			11.2					
Avg.			103.9					

[1/] Ratings based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 11. Corn: Yield of full-season hybrids evaluated at four locations for two years (1985-86).

Color	Cross	Hybrid	2 Yr. Avg.	Knoxville	Spring Hill	Jackson	Ames Plantation
					Bushels per acre		
y	2X	Pioneer brand 3165	135	157	109	127	146
y	2X	Cargill 980	123	141	94	124	134
w	2X	TN 840023	122	142	101	116	130
y	2X	Jacques 8400	122	144	99	111	132
y	2X	GK 900	121	142	99	114	129
w	2X	Zimmerman Z-14W	120	143	94	114	130
y	M3X	Funk G-4868	120	147	95	109	130
y	2X	Pioneer brand 3147	120	134	95	108	143
y	M3X	Funk G-4858	120	142	93	111	133
y	2X	P.A.G. SX383	118	136	94	113	130
y	2X	GK 850	118	142	87	113	130
w	2X	Zimmerman Z-60W	118	141	94	108	128
y	2X	McCurdy 8172	118	135	90	120	126
y	2X	Dekalb-Pfizer DK-789	118	142	96	103	130
y	2X	Paymaster 8990	117	138	88	114	128
w	2X	Zimmerman Z-11W	117	140	90	97	140
w	3X	GK 927W	116	145	82	101	137
w	3X	DeKalb-Pfizer DK-77W	114	142	87	105	122
y	M2X	FFR 955C	112	123	90	103	131
w	M2X	T82-2051	111	140	85	96	124
w	2X	FFR 917W	110	130	82	106	122
w	3X	FFR 929W	110	129	83	97	129
y	2X	Jacques 8700	109	124	82	110	120
y	2X	Stauffer S8818	109	129	80	112	115

Table 12. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for two years (1985-86).

Color	Cross	Hybrid	2 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3165	135	99	2.7	3.7	52	22.4
y	2X	Cargill 980	123	94	3.0	3.2	51	23.2
w	2X	TN 840023	122	91	3.4	3.1	54	21.7
y	2X	Jacques 8400	122	96	3.1	4.8	48	22.4
y	2X	GK 900	121	98	3.1	4.5	49	22.2
w	2X	Zimmerman Z-14W	120	94	2.9	2.4	52	22.9
y	M3X	Funk G-4868[2/]	120	97	3.0	3.2	54	27.1
y	2X	Pioneer brand 3147	120	94	4.0	3.6	52	22.8
y	M3X	Funk G-4858	120	96	3.3	3.8	51	23.7
y	2X	P.A.G. SX383	118	92	3.2	3.3	50	22.6
y	2X	GK 850	118	97	3.2	4.1	50	21.4
w	2X	Zimmerman Z-60W	118	96	3.1	2.7	54	23.0
y	2X	McCurdy 8172	118	96	2.8	3.8	51	23.4
y	2X	Dekalb-Pfizer DK-789	118	94	3.3	4.0	51	23.6
y	2X	Paymaster 8990	117	94	3.1	3.6	50	22.8
w	2X	Zimmerman Z-11W	117	91	2.9	2.8	54	24.1
w	3X	GK 927W	116	89	3.4	3.1	54	24.4
w	3X	DeKalb-Pfizer DK-77W	114	94	3.4	2.6	57	23.7
y	M2X	FFR 955C	112	93	3.1	3.4	54	22.8
w	M2X	T82-2051	111	96	3.1	2.5	54	24.3
w	2X	FFR 917W[3/]	110	89	3.2	3.3	48	23.6
w	3X	FFR 929W	110	91	2.9	3.0	54	24.8
y	2X	Jacques 8700	109	94	3.7	3.4	49	22.5
y	2X	Stauffer S8818	109	92	3.6	3.2	49	23.0

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.
[2/]Tested in previous years as Experimental 9002y.
[3/]Tested in previous years as Experimental 18509.

Table 13. Corn: Yield of full-season hybrids evaluated at four locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg.	Knoxville	Spring Hill	Jackson	Ames Plantation
					Bushels per acre		
y	2X	Pioneer brand 3165	139	170	122	123	140
y	2X	DeKalb-Pfizer DK-789	124	156	114	103	123
y	M3X	Funk G-4858	124	153	106	113	124
y	2X	GK 900	124	149	111	113	122
y	2X	Pioneer brand 3147	124	145	110	106	134
y	2X	Cargill 980	124	151	107	110	126
w	3X	GK 927W	123	158	106	103	127
w	2X	Zimmerman Z-14W	123	155	107	108	119
w	2X	Zimmerman Z-11W	122	158	106	97	128
y	2X	McCurdy 8172	121	146	104	117	118
y	2X	Paymaster 8990	119	149	102	109	116
y	2X	GK 850	119	146	102	107	121
y	2X	P.A.G. SX383	119	142	102	109	122
w	3X	DeKalb-Pfizer DK-77W	119	155	102	112	116
y	M2X	FFR 955C	116	141	102	101	121
w	M2X	T82-2051	116	152	104	92	114
w	3X	FFR 929W	115	146	98	96	122

Table 14. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3165	139	98	2.8	3.8	51	22.2
y	2X	DeKalb-Pfizer DK-789	124	94	3.4	4.0	50	24.2
y	M3X	Funk G-4858	124	95	3.2	3.4	50	23.7
y	2X	GK 900	124	98	3.0	4.5	49	22.4
y	2X	Pioneer brand 3147	124	93	4.0	3.6	50	23.2
y	2X	Cargill 980	124	93	3.1	3.1	50	23.2
w	3X	GK 927W	123	88	3.3	2.9	53	24.2
w	2X	Zimmerman Z-14W	123	93	2.9	2.3	50	22.7
w	2X	Zimmerman Z-11W	122	90	2.9	2.7	54	24.1
y	2X	McCurdy 8172	121	95	2.8	3.6	51	23.5
y	2X	Paymaster 8990	119	94	2.9	3.5	49	22.7
y	2X	GK 850	119	96	3.4	3.9	48	21.3
y	2X	P.A.G. SX383	119	92	3.2	3.5	49	22.7
w	3X	DeKalb-Pfizer DK-77W	119	93	3.4	2.5	56	24.0
y	M2X	FFR 955C	116	92	3.1	3.3	52	22.6
w	M2X	T82-2051	116	95	3.0	2.2	54	24.2
w	3X	FFR 929W	115	91	2.9	3.1	53	24.3

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 15. Corn: Yield of 26 early-maturing hybrids evaluated at four locations in 1986.

Color	Cross	Hybrid	Avg.	1/ Knoxville	2/ Martin	2/ Milan	3/ Ames Plantation
					Bushels per acre		
y	2X	Asgrow/O's Gold 2570	137	147	109	166	127
y	2X	Pioneer brand 3389	137	141	125	166	117
y	2X	DeKalb-Pfizer DK-636	137	133	132	157	126
y	2X	Asgrow/O's Gold 5L34A11	136	155	113	167	109
y	2X	Pioneer brand 3358	136	139	118	161	125
y	2X	DeKalb-Pfizer DK-656	134	136	107	171	124
y	2X	Agri Pro HP 555	134	151	100	164	121
y	2X	Super Crost 5438	134	136	100	168	130
y	2X	Pioneer brand 3378	133	131	116	166	118
y	2X	FFR 788C	133	138	100	171	121
y	2X	McCurdy 7676	132	145	102	151	130
y	2X	Agri Pro 818	131	138	119	156	113
y	2X	Asgrow/O's Gold 3344	131	133	122	160	109
y	2X	Beck's 65X	131	126	116	156	124
y	2X	Funk G-4626	130	134	105	165	118
y	2X	McCurdy 83-40	130	144	103	152	122
y	2X	Asgrow/O's Gold RX788	129	135	121	154	105
y	2X	FFR 747C	129	134	113	153	115
y	2X	DeKalb-Pfizer DK-672	128	141	97	161	114
y	2X	Funk G-4635	128	136	103	164	110
y	2X	USS 7001	127	132	108	147	120
y	M2X	Funk G-4522	126	130	104	164	108
y	2X	Sun Prairie SP230	124	124	107	154	109
y	2X	Coker 8575	122	129	98	160	102
y	2X	N.K. PX79	120	117	105	147	113
y	M2X	FFR 767C	107	111	90	133	95
L.S.D. (.05)			8.5	15.0	20.9	16.1	16.8
C.V. %			9.4	7.9	13.6	7.2	10.2
Avg.			129.9	135.2	109.0	158.9	116.4

1/ Sequatchie silt loam (2% to 5% slopes).
2/ Falaya silt loam (2% to 5% slopes).
3/ Loring silt loam (2% to 5% slopes).

Table 16. Corn: Yield and other characteristics of 26 early-maturing hybrids evaluated at five locations in 1986.

Color	Cross	Hybrid	Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[1/]	Rating[1/]	In.	%
y	2X	Asgrow/O's Gold 2570	137	3.0	3.0	57	21.5
y	2X	Pioneer brand 3389	137	3.0	5.5	54	20.3
y	2X	DeKalb-Pfizer DK-636	137	2.5	3.0	53	19.1
y	2X	Asgrow/O's Gold 5L34All	136	3.5	3.0	49	19.5
y	2X	Pioneer brand 3358	136	3.0	4.5	53	20.8
y	2X	DeKalb-Pfizer DK-656	134	3.5	4.5	56	19.9
y	2X	Agri Pro HP 555	134	3.0	2.8	57	21.7
y	2X	Super Crost 5438	134	3.0	4.5	55	20.6
y	2X	Pioneer brand 3378	133	3.0	4.2	52	18.3
y	2X	FFR 788C	133	4.0	4.2	53	21.8
y	2X	McCurdy 7676	132	3.0	3.0	57	21.4
y	2X	Agri Pro 818	131	4.0	3.2	52	19.7
y	2X	Asgrow/O's Gold 3344	131	4.0	4.0	55	20.4
y	2X	Beck's 65X	131	4.0	4.0	55	20.8
y	2X	Funk G-4626	130	2.0	3.0	54	20.8
y	2X	McCurdy 83-40	130	3.5	2.5	54	21.4
y	2X	Asgrow/O's Gold RX788	129	2.5	2.8	53	20.3
y	2X	FFR 747C	129	2.5	3.0	52	20.8
y	2X	DeKalb-Pfizer DK-672	128	3.5	2.8	54	20.0
y	2X	Funk G-4635	128	3.0	3.5	59	22.0
y	2X	USS 7001	127	4.0	3.2	54	21.5
y	M2X	Funk G-4522	126	3.0	3.2	53	21.2
y	2X	Sun Prairie SP230	124	4.0	5.0	51	19.2
y	2X	Coker 8575	122	3.5	4.0	49	18.4
y	2X	N.K. PX79	120	4.0	3.8	54	18.6
y	M2X	FFR 767C	107	4.0	3.8	55	19.4
L.S.D. (.05)			8.5				
C.V. %			9.4				
Avg.			129.9				

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 17. Corn: Yield of early-maturing hybrids evaluated at four locations for two years (1985-86).

Color	Cross	Hybrid	2 Yr. Avg.	Knoxville	Martin	Milan	Ames Plantation
					Bushels per acre		
y	2X	Pioneer brand 3389	149	144	147	178	129
y	2X	Asgrow/O's Gold 2570	149	155	127	179	135
y	2X	McCurdy 7676	147	152	132	170	134
y	2X	Agri Pro HP 555	147	162	117	179	128
y	2X	Pioneer brand 3358	146	142	129	173	137
y	2X	DeKalb-Pfizer DK-636	145	141	135	171	132
y	2X	Pioneer brand 3378	144	140	137	172	127
y	2X	DeKalb-Pfizer DK-672	144	155	115	176	128
y	2X	USS 7001	143	143	131	169	127
y	2X	Super Crost 5438	143	138	119	179	135
y	2X	FFR 788C	142	148	111	185	126
y	2X	Beck's 65X	141	134	130	172	126
y	2X	DeKalb-Pfizer DK-656	141	142	117	184	121
y	2X	FFR 747C	141	148	126	167	123
y	2X	Asgrow/O's Gold 3344	140	138	133	171	117
y	2X	Funk G-4635	138	139	121	175	117
y	2X	Funk G-4522	136	139	126	163	114
y	2X	Coker 8575	130	143	105	165	107
y	M2X	FFR 767C	124	128	112	150	108

Table 18. Corn: Yield and other characteristics of early-maturing hybrids evaluated at four locations for two years (1985-86).[1/]

Color	Cross	Hybrid	2 Yr. Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[2/]	Rating[2/]	In.	%
y	2X	Pioneer brand 3389	149	2.4	5.2	54	20.6
y	2X	Asgrow/O's Gold 2570	149	2.9	3.2	56	22.0
y	2X	McCurdy 7676	147	2.5	2.8	56	21.4
y	2X	Agri Pro HP 555	147	2.5	2.4	56	22.1
y	2X	Pioneer brand 3358	146	2.6	5.0	53	21.0
y	2X	DeKalb-Pfizer DK-636	145	2.4	2.8	52	19.8
y	2X	Pioneer brand 3378	144	3.0	5.2	53	19.2
y	2X	DeKalb-Pfizer DK-672	144	2.6	2.6	53	20.8
y	2X	USS 7001	143	3.2	3.8	52	21.5
y	2X	Super Crost 5438	143	3.1	4.5	54	20.9
y	2X	FFR 788C	142	3.2	4.5	53	21.6
y	2X	Beck's 65X	141	3.0	4.3	54	21.0
y	2X	DeKalb-Pfizer DK-656	141	2.8	4.2	54	20.9
y	2X	FFR 747C	141	2.2	2.5	51	20.8
y	2X	Asgrow/O's Gold 3344	140	2.9	3.3	54	20.8
y	2X	Funk G-4635	138	2.8	3.8	57	22.0
y	2X	Funk G-4522	136	2.8	3.6	50	21.6
y	2X	Coker 8575	130	3.0	4.5	48	19.5
y	M2X	FFR 767C	124	3.6	4.1	54	19.6

1/No lodging data reported because tests were harvested before any lodging had occurred.
2/Ratings based on scale of 1 through 9 with 1 being excellent and 9 poor.

Table 19. Corn: Yield of early-maturing hybrids evaluated at four locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg.	Knoxville	Martin	Milan	Ames Plantation
					Bushels per acre		
y	2X	Pioneer brand 3389	148	146	147	174	124
y	2X	Asgrow/O's Gold 2570	147	159	127	176	125
y	2X	McCurdy 7676	146	158	136	165	124
y	2X	FFR 788C	143	148	125	179	118
y	2X	Pioneer brand 3358	141	139	129	168	127
y	2X	FFR 747C	139	150	124	165	117
y	2X	USS 7001	138	144	131	156	121
y	2X	Super Crost 5438	138	138	121	167	126
y	M2X	Funk G-4522	138	141	135	168	109
y	2X	Asgrow/O's Gold 3344	137	139	134	164	110
y	2X	Beck's 65X	137	137	130	162	118
y	2X	DeKalb-Pfizer DK-656	136	146	112	173	115

Table 20. Corn: Yield and other characteristics of early-maturing hybrids evaluated at four locations for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Pioneer brand 3389	148	100	2.5	5.0	52	20.6
y	2X	Asgrow/O's Gold 2570	147	99	2.9	3.3	54	22.3
y	2X	McCurdy 7676	146	99	2.7	3.0	55	21.9
y	2X	FFR 788C	143	100	3.4	4.0	51	21.7
y	2X	Pioneer brand 3358	141	100	2.8	5.0	51	21.6
y	2X	FFR 747C	139	100	2.3	2.8	50	20.9
y	2X	USS 7001	138	100	3.4	4.0	51	21.5
y	2X	Super Crost 5438	138	100	3.3	4.7	53	21.4
y	M2X	Funk G-4522	138	100	2.7	3.5	49	21.6
y	2X	Asgrow/O's Gold 3344	137	99	3.0	3.4	50	20.9
y	2X	Beck's 65X	137	99	3.2	4.5	53	21.2
y	2X	DeKalb-Pfizer DK-656	136	100	2.9	4.3	53	21.4

[1/] Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 21. Corn: Yield and other characteristics of 40 extra hybrids evaluated at Knoxville in 1986.[1/]

Color	Cross	Hybrid	Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[2/]	Rating[2/]	In.	%
y	2X	Asgrow/O's Gold 5L34A11	164	2.5	3.0	57	21.9
y	2X	Beck's 85MDM	160	3.0	4.0	61	25.3
y	2X	McCurdy 85-60	159	3.0	3.0	56	22.0
y	2X	SeedTec EX-209	158	2.0	3.0	56	21.9
y	2X	Zimmerman Z-15	155	3.0	2.5	55	25.8
y	2X	Coker 3020	155	3.0	4.0	50	21.8
y	2X	Sunbelt 1802	151	3.0	4.0	54	22.8
y	2X	Pfister 4470	147	3.5	4.5	56	20.8
y	2X	Zimmerman Z-35	146	2.5	2.5	56	21.5
y	2X	Pioneer brand 3184	146	3.5	3.5	50	23.6
w	2X	Asgrow/O's Gold 5L44D44	146	3.5	3.5	53	21.9
w	3X	FFR Exp 1413W	143	2.0	2.0	59	24.8
w	2X	G.K. Exp 5921W	143	3.0	2.0	60	23.0
y	M2X	McCurdy 85-61	140	3.5	2.5	58	25.3
y	2X	N.K. X6674	139	3.0	4.0	54	24.8
y	M2X	Sun Prairie SP2405	139	3.0	3.0	53	22.9
y	2X	P.A.G. SX16A	138	3.0	4.0	56	20.4
y	2X	Pfister 4571	137	3.0	4.0	58	23.6
y	2X	P.A.G. SX351	134	5.0	4.0	56	22.5
w	2X	Paymaster Exp 126022	134	3.5	4.0	48	20.8
y	2X	P.A.G. SX352	132	4.0	5.0	54	19.0
y	M2X	Coker 8696	132	3.0	3.0	57	22.1
w	3X	FFR Exp 1414W	132	3.5	2.0	59	25.2
y	3X	Asgrow/O's Gold 5L45A13	130	3.5	3.5	54	22.8
y	2X	Agri Pro EX 670	130	3.0	3.5	54	20.3
y	2X	P.A.G. Exp 185059	130	2.0	3.0	56	22.8
w	2X	FFR Exp 16992	129	4.0	5.0	50	21.2
y	2X	Madison GL271	129	4.0	4.0	54	19.6
y	2X	McCurdy 84-50	128	4.0	3.0	48	19.3
y	2X	Madison GL40	128	3.0	4.0	46	21.6
y	2X	Sun Prairie SP2750	128	2.5	2.5	54	20.8
w	2X	Asgrow/O's Gold 5L44D43	127	2.5	2.0	59	23.0
y	2X	TN 850809	124	2.5	4.0	49	23.7
y	3X	Asgrow/O's Gold 5L45A34	124	4.0	3.5	52	23.0
w	2X	FFR Exp 16990	122	3.5	3.0	52	20.6
y	2X	P.A.G. Exp 125618	121	4.0	4.0	52	22.0
y	2X	Pfister 3450	121	4.0	3.5	55	22.6
w	2X	FFR Exp 15848[3/]	119	4.0	2.0	50	23.4
y	2X	Cargill Exp 126016	117	4.0	4.5	50	20.3
w	2X	FFR Exp 16991	108	4.0	3.0	52	21.9
L.S.D. (.05)			18.3				
C.V. %			9.6				
Avg.			136.3				

[1/]Sequatchie silt loam (2% to 5% slopes).
[2/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.
[3/]FFR Exp 15848 had 15846 on package.

Table 22. Corn: Yield and other characteristics of medium-season hybrids evaluated at Crossville in 1986.

Color	Cross	Hybrid	Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[1/]	Rating[1/]	In.	%
y	2X	DeKalb-Pfizer DK-711	111	3.0	2.5	58	26.5
y	2X	Stauffer S7759	106	3.0	3.5	56	23.7
y	2X	SeedTec H-2675	103	2.5	3.0	57	25.8
y	2X	Stauffer 8500	102	3.5	4.5	58	25.8
y	2X	N.K. PX 9540	101	3.0	3.0	55	22.4
y	2X	Zimmerman Z-27Y	101	3.5	5.0	62	25.9
y	2X	P.A.G. SX352	99	3.0	4.5	57	23.9
y	2X	Beck's 85XA	99	3.0	3.0	58	25.2
y	2X	GK 750	98	2.5	3.0	56	23.0
y	2X	FFR 811C	98	4.0	4.0	54	25.8
y	2X	Coker 8625	96	3.0	3.0	56	18.8
y	2X	Pioneer brand 3320	94	3.5	3.5	60	28.0
y	2X	Funk G-6066X	93	3.5	3.0	58	27.3
y	2X	McCurdy 8150	93	3.5	4.5	65	26.8
y	2X	Cargill 967	92	4.5	4.5	63	24.0
y	2X	Jacques 8350	90	3.0	3.0	59	24.8
y	2X	DeKalb-Pfizer DK-689	90	3.0	3.0	64	27.2
y	2X	N.K. PX 9581	89	3.0	5.5	58	26.2
y	2X	Asgrow/O's Gold 5509	88	3.5	3.5	58	27.6
y	M2X	Funk G-4614	87	3.5	3.0	60	25.2
y	2X	Paymaster 7990	87	4.5	4.5	54	27.8
y	M2X	Funk G-4734	84	3.5	3.5	62	25.8
y	M2X	Coker 19A	84	3.5	4.0	58	24.6
y	2X	FFR 815C	84	3.5	4.5	56	27.0
y	2X	Asgrow/O's Gold RX892	83	3.0	4.0	58	24.9
y	M2X	Funk G-4733	82	3.0	3.0	52	27.2
y	2X	Jacques 8250	81	3.0	4.0	54	25.7
y	2X	McCurdy 84AA	80	3.5	3.5	57	26.2
y	2X	DeKalb-Pfizer DK-748	77	3.0	3.0	62	27.3
y	2X	RA 1502	74	4.5	4.0	56	29.2
y	3X	Funk G-4765	69	3.5	3.5	60	27.2
y	2X	Pioneer brand 3184	68	3.5	4.5	52	25.6
y	2X	Pioneer brand 3147	68	5.0	5.0	65	31.0
y	2X	SeedTec H-2686A	60	4.5	3.0	64	26.6
y	2X	Coker 21	58	4.0	3.5	58	29.4
w	2X	Funk G-6044W	55	3.5	3.0	62	31.0
w	2X	TN 850003	51	3.5	3.0	58	27.0
y	M2X	TN 82035	47	4.0	3.0	60	25.8
y	2X	FFR 848C	38	3.0	3.0	62	27.0
w	3X	Asgrow/O's Gold 2680W	36	3.5	3.0	64	30.8
L.S.D. (.05)			27.1				
C.V. %			23.4				
Avg.			82.4				

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 23. Corn: Yield and other characteristics of 24 medium-season hybrids evaluated at Crossville in 1986.

Color	Cross	Hybrid	Avg. Yield	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[1/]	Rating[1/]	In.	%
y	2X	McCurdy 7800	118	3.0	5.5	60	24.4
y	2X	T.E. 6996	113	3.0	4.5	59	25.5
y	2X	Agri Pro HP 771	112	3.0	3.5	62	24.3
y	2X	SeedTec ST-7750	107	3.0	2.5	60	23.2
y	2X	Cargill 971	106	3.0	3.0	58	24.6
y	2X	Princeton SX865	104	3.5	3.0	57	23.4
y	2X	FFR 810C	104	4.0	3.5	55	21.5
y	2X	Zimmerman Z-28	103	3.5	4.5	62	22.3
y	2X	Asgrow/O's Gold RX798	102	3.5	3.0	56	20.7
y	2X	Agri Pro 830	101	3.0	3.5	58	22.4
y	2X	Cargill 973	98	3.0	3.0	50	25.4
y	2X	T.E. 6994	97	3.0	3.0	54	22.3
w	2X	Asgrow/O's Gold RX956W	96	3.0	3.0	56	23.6
y	2X	Pioneer brand 3320	95	3.0	2.5	53	25.2
y	M2X	Super Crost 5454	94	2.5	3.5	59	23.2
y	M2X	Gold Medal 3357	91	3.0	3.0	60	23.5
y	2X	Super Crost 5438	91	3.5	3.5	57	23.0
y	M2X	Gold Medal 984	90	4.0	3.0	64	24.0
y	2X	SeedTec H-2601	88	3.5	4.0	52	24.0
y	M2X	Gold Medal 335	88	3.5	3.5	60	23.8
y	2X	T.E. 6995A	84	3.5	3.0	62	24.0
w	2X	SeedTec H-2625W	76	2.5	3.0	62	26.2
y	2X	Asgrow/O's Gold RX860	74	4.0	2.5	54	22.7
w	3X	Funk G-6054W	59	3.0	2.5	58	25.4
L.S.D. (.05)			21.0				
C.V. %			15.6				
Avg.			95.4				

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 24. Corn: Yield and other characteristics of medium-season hybrids evaluated at Crossville for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Beck's 85XA	156	99	2.8	3.0	59	28.7
y	2X	Stauffer S7759	150	99	2.6	4.5	59	23.6
y	2X	Zimmerman Z-27Y	149	100	2.8	4.5	66	26.3
y	2X	Cargill 967	147	100	4.2	5.3	62	25.3
y	2X	P.A.G. SX352	145	98	3.2	4.7	58	23.6
y	2X	McCurdy 8150	145	99	3.2	3.3	66	27.9
y	2X	N.K. PX 9581	143	100	3.5	4.7	59	26.4
y	2X	Asgrow/O's Gold 5509	141	96	3.8	3.8	58	28.8
y	2X	DeKalb-Pfizer DK-689	141	99	3.2	3.8	62	28.2
y	2X	Pioneer brand 3320	140	99	2.7	3.7	59	27.2
y	2X	Pioneer brand 3184	139	100	3.8	4.3	55	27.3
y	2X	McCurdy 84AA	138	95	3.7	3.2	58	27.4
y	M2X	Funk G-4733	137	99	3.0	2.8	57	28.2
y	M2X	Coker 19A	136	99	3.5	3.7	58	26.4
y	2X	RA 1502	136	98	3.8	3.8	55	27.7
y	2X	FFR 811C	135	96	4.0	4.7	54	25.7
y	2X	SeedTec H-2686A	132	98	3.7	3.5	62	28.4
y	M2X	Funk G-4734	129	98	3.8	3.5	61	29.6
y	2X	Coker 21	129	99	4.0	3.3	58	31.0
y	2X	Pioneer brand 3147	126	100	5.0	4.0	64	31.9
y	3X	Funk G-4765	124	99	3.8	3.2	62	31.0
w	3X	Asgrow/O's Gold 2680W	121	98	3.8	3.2	66	30.2
y	2X	FFR 848C	117	98	3.2	3.2	65	27.8

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 25. Corn: Yield and other characteristics of early-maturing hybrids evaluated at Crossville in 1986.

Color	Cross	Hybrid	Avg. Yield	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	Rating[1/]	In.	%
y	2X	Asgrow/O's Gold 5L34All	89	3.5	52	23.6
y	2X	McCurdy 83-40	89	3.5	59	21.1
y	2X	McCurdy 7676	84	5.0	58	23.4
y	2X	FFR 747C	83	3.0	57	22.8
y	2X	Agri Pro HP 555	82	3.0	64	22.4
y	2X	DeKalb-Pfizer DK-656	80	4.5	62	23.8
y	2X	Asgrow/O's Gold 2570	79	3.0	66	22.5
y	2X	Pioneer brand 3358	76	5.0	55	21.5
y	2X	Asgrow/O's Gold 3344	73	4.0	60	26.8
y	2X	Super Crost 5438	73	4.0	56	23.3
y	2X	Funk G-4635	72	3.5	60	23.4
y	M2X	Funk G-4522	71	3.5	58	24.4
y	2X	DeKalb-Pfizer DK-636	70	3.5	60	23.4
y	2X	USS 7001	66	3.5	50	23.4
y	2X	DeKalb-Pfizer DK-672	65	4.5	59	24.8
y	2X	Asgrow/O's Gold RX788	65	3.5	59	22.5
y	2X	Funk G-4626	63	3.0	56	24.4
y	2X	Pioneer brand 3389	62	3.0	60	22.2
y	2X	Sun Prairie SP230	61	3.5	56	22.0
y	2X	Pioneer brand 3378	60	4.5	56	24.0
y	2X	Coker 8575	58	3.0	50	21.8
y	2X	Beck's 65X	57	4.0	60	23.3
y	2X	FFR 788C	57	3.0	56	24.2
y	M2X	FFR 767C	56	3.0	63	23.6
y	2X	Agri Pro 818	54	4.0	58	22.6
y	2X	N.K. PX 79	54	3.5	60	22.9
L.S.D. (.05)			21.6			
C.V. %			22.1			
Avg.			69.3			

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 26. Corn: Yield and other characteristics of early-maturing hybrids evaluated at Crossville for three years (1984-86).

Color	Cross	Hybrid	3 Yr. Avg. Yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating[1/]	Rating[1/]	In.	%
y	2X	Asgrow/O's Gold 2570	143	97	3.5	2.7	65	23.6
y	2X	McCurdy 7676	142	99	2.8	3.5	61	23.7
y	2X	Pioneer brand 3358	141	100	3.2	5.8	57	23.4
y	2X	DeKalb-Pfizer DK-656	139	99	3.0	3.7	60	23.5
y	2X	Super Crost 5438	137	100	3.8	4.2	56	23.1
y	2X	FFR 747C	137	98	3.0	3.5	56	23.4
y	2X	FFR 788C	137	99	3.5	3.3	56	24.3
y	2X	Pioneer brand 3389	136	100	3.2	5.2	59	23.0
y	2X	USS 7001	135	95	3.5	3.7	52	23.8
y	2X	Beck's 65X	134	97	3.5	3.8	60	22.8
y	M2X	Funk G-4522	134	100	4.0	2.8	56	25.0
y	2X	Asgrow/O's Gold 3344	127	95	3.5	4.0	57	24.5

[1/]Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 27. Corn: Performance data for 39 corn hybrids evaluated for susceptibility to Gray Leaf Spot and Northern Leaf Spot in Johnson County, TN, in 1986.[1/]

Hybrid	Yield	Standing Plants	Moisture at Harvest	Gray Leaf Spot	Northern Leaf Spot
	Bu/A	%	%	----Rating----	
				2/	3/
Pioneer brand 3352	143	99	19.9	1.6	1.0
Pioneer brand 3192	133	83	24.0	2.4	1.0
DeKalb-Pfizer DK-789	132	89	25.5	1.5	2.6
FFR 747C	123	98	21.7	2.7	3.0
Pioneer brand 3233	115	92	21.0	1.2	1.8
Zimmerman Z-11W	111	70	25.0	1.8	2.6
Pioneer brand 3389	111	97	19.8	3.5	1.6
FFR 810C	110	88	18.7	2.6	3.6
Pioneer brand 3358	109	96	18.0	2.9	1.0
Asgrow/O's Gold 2570	107	48	20.8	3.2	3.5
FFR 811C	107	75	22.8	2.2	1.4
FFR 848C	105	89	24.0	1.5	1.5
Pioneer brand 3320	105	72	19.3	3.6	0.5
McCurdy 8150	103	69	26.4	3.0	3.0
N.K. PX 95	102	79	27.2	1.6	2.1
Coker 19A	102	88	22.0	2.0	3.2
RA 1502	102	90	23.0	3.5	3.2
Asgrow/O's Gold 3344	101	63	20.6	1.8	0.5
Beck's 85XA	101	90	23.4	1.9	2.6
Mo17 x NC250	99	72	20.1	1.2	1.8
FFR 955C	99	70	23.4	2.6	3.5
Zimmerman Z-14W	97	79	24.7	1.6	1.4
USS 7001	96	79	22.6	2.1	2.7
Pioneer brand 3165	96	65	22.6	2.1	1.7
Pioneer brand 3147	94	77	23.3	2.5	1.1
Pioneer brand 3110	91	96	25.6	1.4	1.5
SeedTec H-2686A	91	91	25.6	2.7	2.7
Pioneer brand 3184	89	85	23.4	3.3	3.5
DeKalb-Pfizer DK-689	88	77	23.6	1.6	1.6
Funk G-4522	87	80	20.8	5.0	3.8
Funk G-4733	82	62	24.3	3.8	3.5
Coker 21	79	71	23.1	3.1	4.0
McCurdy 84AA	77	73	23.1	3.6	3.7
DeKalb-Pfizer DK-748	76	91	23.7	2.2	3.4
Funk G-4868	76	89	26.8	3.0	0.5
FFR 929W	76	82	25.6	1.5	2.7
N.K. PX 79	75	75	23.3	1.5	1.6
Asgrow/O's Gold 5509	74	63	25.1	3.4	3.8
Asgrow/O's Gold 2680W	72	79	25.3	1.4	2.9
L.S.D. (.05)	34.0	19.0	2.0	0.9	0.9
C.V. %	26.0	18.0	4.3	27.0	30.0
Avg.	98.0	80.0	23.0	2.4	2.3

[1/]Data obtained in cooperation with Tom Fortune, Cooperative Extension Service, Johnson County, TN; Wayne Ward, Farm Manager, Maymeade Farm, Johnson County, TN; D. R. West and D. R. Kincer, University of Tennessee, Knoxville.

[2/]Rating scale of 1 to 5, where 1 = no leaf lesions and 5 = severe leaf blighting.

[3/]Rating scale of 0 to 5, where 0 = no leaf lesions and 5 = severe leaf blighting.