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## Performance of Corn Hybrids in 1987

University of Tennessee Agricultural Experiment Station

Charles R. Graves

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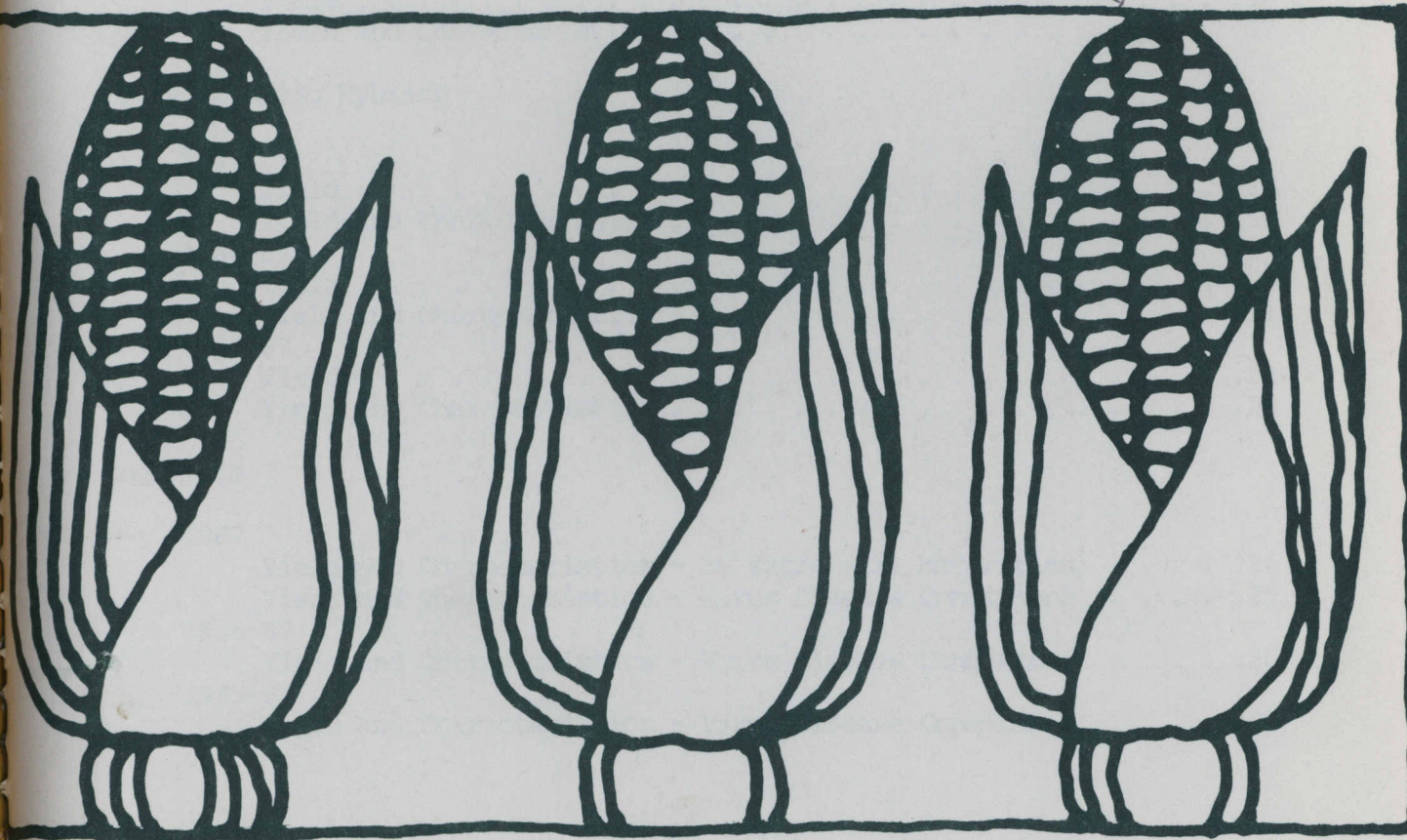
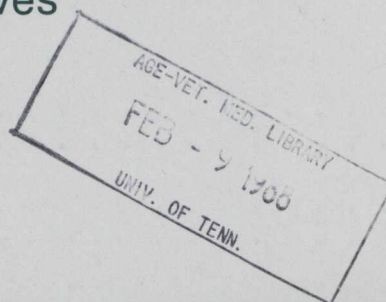
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# Performance of Corn Hybrids in 1987

Charles R. Graves



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University of Tennessee  
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## PERFORMANCE OF CORN HYBRIDS IN 1987<sup>1</sup>

Charles R. Graves<sup>2</sup>

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 were reduced due to severe drought during silking and tasseling. The yields in West Tennessee were good to excellent in 1987. The early-maturing yields were not reported for Crossville due to the variability in yields due to soil variability and dry weather.

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 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 1987.

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 1987 were DeKalb-Pfizer DK689, Zimmerman z-27y, Pioneer brand 3295, Funk RA1502, Coker 21, and Pioneer brand 3147, a full-season hybrid included as a check hybrid. In the extra medium-season test, the highest producing hybrids were Zimmerman z-38, McCurdy 7800, T-E 6996, Pioneer brand 3320, and AgriPro HP771.

The five leading hybrids in the full-season test in 1987 were Pioneer brand 3165, Pioneer brand 3147, FFR Exp 14914, Tenn. Exp. T167XT85:210, and Pioneer brand 3144w.

The highest producing early-maturing hybrids in 1987 were AgriPro HP555, McCurdy 7676, Pfister 4470, Asgrow/O's Gold 2570, and Pioneer brand 3389.

<sup>1</sup> These results will be included in the 1987 Bulletin, Performance of Field Crop Varieties, which will be available in 1988.

<sup>2</sup> Professor of Plant and Soil Science.

The Recommended Corn Hybrids for 1988 are as Follows:

3 Year Average (1985-87)

2

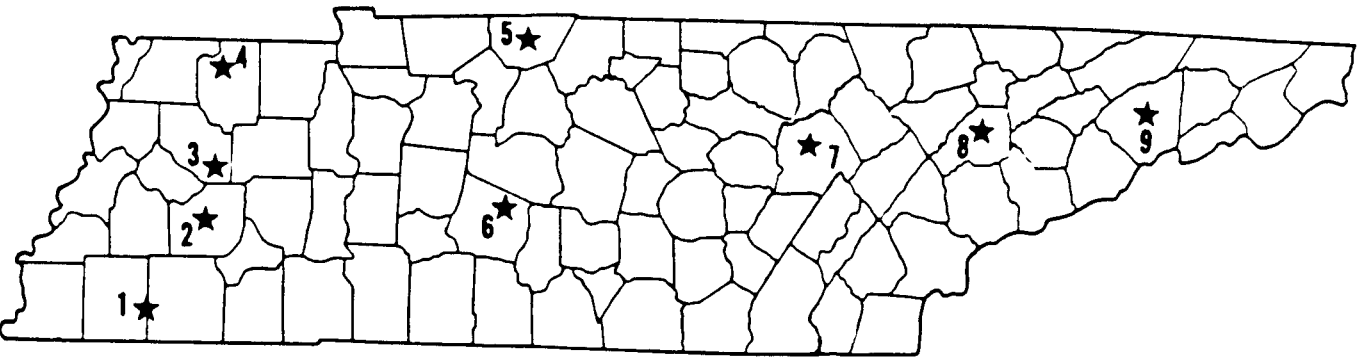
Make yield comparisons only within a given maturity group because all maturity groups are not evaluated at the same locations.

Maturity Group	Grain Color	Brand	Hybrid	Tolerance <sup>2</sup> to Corn Virus Complex	Quality Rating (1-9)	Moisture at Harvest %	Yield Bu/A
Early	Yellow	Asgrow/O's Gold	2570	Low	2.8	20.1	147
		AgriPro	HP555	Low	2.3	20.1	147
		McCurdy	7676	Low	2.3	19.5	147
		Pioneer	3389	Med-Low	2.2	18.8	146
		DeKalb-Pfizer	DK636	Low	2.3	18.3	141
		Super Crost	5438	Low	3.2	19.2	140
		DeKalb-Pfizer	DK656	Low	2.7	19.0	138
		Beck's	65X	Low	2.7	19.5	138
		FFR	747C	Low	2.2	19.0	138
		Asgrow/O's Gold	3344	Med-Low	2.5	18.9	137
		Funk	G-4522	Low	2.7	19.6	136
		USS	7001 <sup>1</sup>	Low	-	-	-
		Pioneer	3358 <sup>1</sup>	Low	-	-	-
		FFR	788C	Low	-	-	-
Medium	Yellow	DeKalb-Pfizer	DK689	Med-High	3.0	17.1	153
		Zimmerman	z-27y	Low	2.8	16.0	149
		Stauffer	8500	Low	2.5	17.9	148
		Asgrow/O's Gold	5509	Low	3.3	18.5	145
		SeedTec	2686A	Low	3.7	18.2	145
		Beck's	85XA	Med	3.3	18.3	144
		Pioneer	3320	Low	2.5	17.0	144
		McCurdy	8150	Low	3.3	18.6	144
		Coker	21	Low	3.7	18.3	144
		Funk	RA1502	Low	3.0	17.3	144
		Funk	G-4765	Low	3.7	18.5	144
		Stauffer	S7759	Med-Low	3.5	16.0	141
		SeedTec	2675	Low	3.7	17.3	140
		Funk	G-4733	Med	2.5	18.8	137
		DeKalb-Pfizer	DK748 <sup>1</sup>	Low	-	-	-
		McCurdy	84AA <sup>1</sup>	Low	-	-	-
		Pioneer	3184 <sup>1</sup>	Med-Low	-	-	-
Full	Yellow	Pioneer	3165	Low	2.6	20.8	136
		Pioneer	3147	Med-High	3.5	20.5	124
		Jacques	8400	Med	2.8	20.5	124
		AgraTech	GK900	Med-High	2.6	20.5	121
		Funk	G-4868	Med-Low	2.7	20.5	121
		AgraTech	GK850	Low	3.5	19.9	120
		McCurdy	8172	Med-Low	2.7	21.3	120
		DeKalb-Pfizer	DK789	Med-High	3.0	21.7	119
		Funk	G-4858	Med-Low	3.2	21.9	119
		Cargill	8990	Low	2.7	21.2	118
		Cargill	980 <sup>1</sup>	Low	-	-	-
	White	Zimmerman	z-14w	Med-High	2.8	21.1	121
		Zimmerman	z-11w <sup>1</sup>	Med-High	2.4	22.6	116
		AgraTech	GK927w <sup>1</sup>	Low	-	-	-

<sup>1</sup> Present plans indicate that this hybrid will not be recommended after 1988.

<sup>2</sup> Hybrids rated lower than medium-high are not recommended under heavy virus conditions.

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 six locations in 1987.

Color	Cross	Brand	Hybrid	Avg.	1	2	3	4	5	6
					Knox-ville	Spring-field	Spring Hill	Milan	Cross-ville	Martin
Bushels per Acre										
y	2X	DeKalb-Pfizer	DK689	147	131	166	136	219	89	142
y	2X	Pioneer	3147	145	136	184	128	189	90	145
y	2X	Zimmerman	z-27y	145	140	168	112	201	112	137
y	2X	Pioneer	3295	144	131	172	133	188	111	128
y	2X	Funk	RA1502	142	131	141	124	214	116	128
y	2X	Coker	21	142	133	165	114	207	94	137
y	2X	DeKalb-Pfizer	DK711	141	138	150	117	206	105	131
w	2X	Exp	T165xT167	141	133	175	129	172	102	132
		Asgrow/O's Gold	X8007	141	133	150	120	203	108	130
y	2X	Stauffer	8500	140	133	157	125	185	105	135
y	2X	Beck's	85XA	138	125	147	123	193	101	137
y	2X	SeedTec	2686A	137	131	145	117	201	106	124
y	2X	Funk	G-4666	137	126	151	127	188	99	130
y	2X	Stauffer	S7759	137	127	137	114	208	108	126
w	2X	Funk	G-6044w	136	128	144	120	194	109	124
y	2X	Asgrow/O's Gold	RX905	136	128	144	116	199	98	131
y	2X	Asgrow/O's Gold	5509	136	127	145	128	212	86	119
y	2X	Exp	B73xMo17	135	126	141	115	196	104	129
y	2X	SeedTec	2675	135	127	144	112	206	101	122
y	2X	Pioneer	3320	135	128	143	122	203	87	128
y	2X	Princeton	SX865	135	121	142	122	196	108	122
y	3X	Funk	G-4765	135	133	137	116	194	105	124
y	2X	Jacques	8250	134	151	141	123	161	101	127
y	2X	McCurdy	8150	133	119	151	103	207	94	127
y	2X	Jacques	8350	133	128	128	108	193	114	127
y	2X	Funk	G-4743	133	115	159	115	196	89	124
y	2X	N.K.	PX9581	132	130	128	119	198	101	118
y	2X	AgraTech	GK750	132	129	130	109	191	106	129
y	2X	Asgrow/O's Gold	XP9017	131	123	141	118	189	107	107
y	2X	Coker	8625	129	122	129	110	188	101	126
y	2X	N.K.	PX9540	129	119	141	105	185	97	126
w	2X	AgriGold	XA862w	129	111	147	115	180	93	127
y	2X	FFR	811C	129	116	133	109	194	98	123
y	2X	AgriGold	A6615	128	120	133	118	182	96	117
y	M2X	Funk	G-4733	128	116	144	109	183	89	126
y	2X	Sun Prairie	SP2750	127	121	134	109	182	101	114
y	2X	N.K.	PX9584	125	112	116	101	199	107	117
y	2X	Princeton	SX860	124	107	126	111	186	114	103
y	2X	McCurdy	7700	123	114	141	116	182	91	96
y	2X	FFR	815C	122	118	136	106	171	84	119
L.S.D. (.05)				7.4	15.5	18.8	14.5	19.3	19.4	14.4
C.V. %				9.6	8.8	9.2	8.9	7.1	13.8	8.2
Avg.				134.6	126.0	145.1	116.9	193.5	100.6	125.4

<sup>1</sup>Sequatchie silt loam (2% to 5% slopes).<sup>2</sup>Huntington silt loam (2% to 5% slopes).<sup>3</sup>Maury silt loam (2% to 5% slopes).<sup>4</sup>Falaya silt loam (2% to 5% slopes).<sup>5</sup>Hartsell's loam (2% to 5% slopes).

Table 2. Corn: Yield and other characteristics of medium-season hybrids evaluated at six locations in 1987.

Color	Cross	Brand	Hybrid	Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	DeKalb-Pfizer	DK689	147	3.0	3.5	54	16.3
y	2X	Pioneer	3147	145	4.5	4.2	58	16.6
y	2X	Zimmerman	z-27y	145	3.0	4.2	58	15.1
y	2X	Pioneer	3295	144	4.1	5.1	52	15.5
y	2X	Funk	RA1502	142	3.8	3.9	53	16.4
y	2X	Coker	21	142	4.1	3.9	56	17.0
y	2X	DeKalb-Pfizer	DK711	141	2.5	3.7	53	16.8
w	2X	Exp	T165xT167	141	3.0	2.1	57	17.4
		Asgrow/O's Gold	X8007	141	4.1	4.0	57	15.5
y	2X	Stauffer	8500	140	2.7	5.0	55	16.9
y	2X	Beck's	85XA	138	3.5	4.0	51	17.6
y	2X	SeedTec	2686A	137	3.2	2.8	54	17.6
y	2X	Funk	G-4666	137	3.1	3.0	53	15.7
y	2X	Stauffer	S7759	137	3.4	4.2	55	15.3
w	2X	Funk	G-6044w	136	2.7	3.5	54	18.6
y	2X	Asgrow/O's Gold	RX905	136	3.0	3.0	55	15.0
y	2X	Asgrow/O's Gold	5509	136	3.9	3.8	52	17.5
y	2X	Exp	B73xMol17	135	4.5	4.5	51	14.9
y	2X	SeedTec	2675	135	3.4	3.9	53	16.5
y	2X	Pioneer	3320	135	2.4	3.7	52	16.3
y	2X	Princeton	SX865	135	3.2	3.0	51	15.5
y	3X	Funk	G-4765	135	3.0	3.5	56	17.6
y	2X	Jacques	8250	134	3.5	3.9	55	15.9
y	2X	McCurdy	8150	133	3.9	3.2	59	17.5
y	2X	Jacques	8350	133	3.1	3.0	55	16.1
y	2X	Funk	G-4743	133	2.5	3.2	57	18.2
y	2X	N.K.	PX9581	132	3.4	3.8	53	16.6
y	2X	AgraTech	GK750	132	2.6	3.3	51	15.2
y	2X	Asgrow/O's Gold	XP9017	131	3.1	2.9	53	15.3
y	2X	Coker	8625	129	2.7	2.9	51	15.3
y	2X	N.K.	PX9540	129	2.9	3.4	48	15.5
w	2X	AgriGold	XA862w	129	2.9	2.7	56	18.4
y	2X	FFR	811C	129	4.2	4.9	52	15.5
y	2X	AgriGold	A6615	128	2.7	3.3	48	15.4
y	M2X	Funk	G-4733	128	2.9	3.3	52	18.2
y	2X	Sun Prairie	SP2750	127	2.5	3.4	50	15.2
y	2X	N.K.	PX9584	125	3.9	3.6	47	15.5
y	2X	Princeton	SX860	124	2.5	4.3	44	17.0
y	2X	McCurdy	7700	123	3.2	3.0	51	15.5
y	2X	FFR	815C	122	3.9	4.6	50	16.2

<sup>1</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.



Table 3. Corn: Yield of 32 extra medium-season hybrids evaluated at six locations in 1987.

Color	Cross	Brand	Hybrid	Avg.	1 Knox- ville	2 Spring- field	3 Spring Hill	4 Milan	5 Cross- ville	6 Martin
Bushels per acre										
y	2X	Zimmerman	z-38	131	113	140	104	188	116	123
y	2X	McCurdy	7800	130	134	150	102	174	106	112
y	2X	T-E	6996	128	121	139	105	186	112	107
y	2X	Pioneer	3320	127	121	138	108	179	101	116
y	2X	AgriPro	HP771	126	121	144	102	176	104	110
y	3X	SeedTec	2695A	124	108	142	99	195	95	108
y	2X	Coker	3020	123	112	113	108	201	100	105
w	2X	Asgrow/O's Gold	RX956w	123	116	132	99	178	113	101
y	2X	Jacques	8210	123	113	125	98	171	124	107
y	2X	T-E	6994	123	123	124	99	166	120	106
y	2X	SeedTec	2601	122	107	132	101	169	109	116
y	M2X	Hy-Performer	X-9340	122	116	118	100	176	114	108
y	2X	Asgrow/O's Gold	X9237	122	118	125	102	168	110	108
y	2X	Coker	CX5059	121	122	121	100	163	107	113
w	2X	Asgrow/O's Gold	X9527w	121	106	160	110	154	87	109
y	2X	SeedTec	ST-7750	121	117	125	103	166	114	99
y	2X	Cargill	7877	121	112	119	95	179	120	99
y	2X	AgriPro	830	120	107	122	99	171	115	106
y	2X	SeedTec	ST-7680	120	109	116	103	170	119	100
y	M2X	Coker	8696	119	117	132	95	169	103	100
y	2X	Super Crost	5438	119	114	128	88	162	112	111
y	2X	Cargill	7993	118	108	118	100	168	110	103
y	2X	Deltapine	5750	117	112	122	102	164	108	96
y	2X	T-E	6995A	117	103	131	92	165	105	107
y	2X	Zimmerman	z-45	117	111	105	102	166	113	104
y	2X	Super Crost	5460	116	112	113	99	168	102	104
y	M2X	Hy-Performer	X-366	115	104	131	97	153	105	97
w	2X	Asgrow/O's Gold	6B4003w	114	103	111	92	182	99	98
y	2X	Cargill	8969	114	101	124	92	154	117	93
y	2X	FFR	810C	112	102	94	96	182	99	99
y	2X	Coker	CX5067	110	103	109	80	174	101	90
y	2X	Princeton	SX830	109	114	84	96	157	100	104
L.S.D. (.05)				10.6	16.5	26.2	14.8	25.8	15.5	17.3
C.V. %				12.2	10.5	14.9	10.6	10.7	10.2	11.8
Avg.				120.1	112.6	124.6	98.9	171.7	108.1	104.9

<sup>1</sup>Sequatchie silt loam (2% to 5% slopes).<sup>2</sup>Huntington silt loam (2% to 5% slopes).<sup>3</sup>Maury silt loam (2% to 5% slopes).<sup>4</sup>Falaya silt loam (2% to 5% slopes).<sup>5</sup>Hartsell's loam (2% to 5% slopes).

Table 4. Corn: Yield and other characteristics of 32 extra medium-season hybrids evaluated at six locations in 1987.

Color	Cross	Brand	Hybrid	Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Zimmerman	z-38	131	2.6	3.8	43	15.9
y	2X	McCurdy	7800	130	3.0	4.4	50	16.0
y	2X	T-E	6996	128	2.9	4.8	52	16.6
y	2X	Pioneer	3320	127	2.6	3.3	51	16.1
y	2X	AgriPro	HP771	126	3.2	4.2	50	15.9
y	3X	SeedTec	2695A	124	4.1	3.3	53	16.4
y	2X	Coker	3020	123	3.4	3.4	50	16.0
w	2X	Asgrow/O's Gold	RX956w	123	3.0	3.2	50	17.4
y	2X	Jacques	8210	123	3.5	3.5	43	15.8
y	2X	T-E	6994	123	3.2	3.7	54	15.0
y	2X	SeedTec	2601	122	4.0	3.8	47	14.4
y	M2X	Hy-Performer	X-9340	122	3.4	2.7	49	15.2
y	2X	Asgrow/O's Gold	X9237	122	3.4	3.9	44	15.7
y	2X	Coker	CX5059	121	3.6	3.2	48	15.1
w	2X	Asgrow/O's Gold	X9527w	121	3.0	3.2	51	17.5
y	2X	SeedTec	ST-7750	121	3.9	3.0	54	15.0
y	2X	Cargill	7877	121	4.6	4.7	47	14.4
y	2X	AgriPro	830	120	4.1	4.3	53	14.9
y	2X	SeedTec	ST-7680	120	2.6	3.2	48	14.8
y	M2X	Coker	8696	119	2.9	3.4	54	16.4
y	2X	Super Crost	5438	119	3.1	4.2	51	14.8
y	2X	Cargill	7993	118	2.9	3.2	48	15.0
y	2X	Deltapine	5750	117	3.5	2.8	48	15.2
y	2X	T-E	6995A	117	3.6	3.9	52	14.1
y	2X	Zimmerman	z-45	117	3.0	2.6	48	15.5
y	2X	Super Crost	5460	116	2.6	3.1	48	14.6
y	M2X	Hy-Performer	X-366	115	2.9	3.8	51	14.9
w	2X	Asgrow/O's Gold	6B4003w	114	3.0	3.6	51	16.1
y	2X	Cargill	8969	114	3.6	3.8	51	15.8
y	2X	FFR	810C	112	3.5	3.3	48	14.6
y	2X	Coker	CX5067	110	4.0	4.5	44	15.6
y	2X	Princeton	SX830	109	2.6	2.5	48	15.6

<sup>1</sup>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 (1986-87).

Color	Cross	Brand	Hybrid	2 Yr. Avg.	Knox- ville	Spring- field	Spring Hill	Milan	Martin
Bushels per Acre									
y	2X	Pioneer	3147	149	150	179	103	167	147
y	2X	DeKalb-Pfizer	DK689	147	140	157	109	188	140
y	2X	DeKalb-Pfizer	DK711	145	149	158	100	188	133
y	2X	Stauffer	8500	142	143	155	102	172	140
y	2X	Zimmerman	z-27y	141	136	164	91	172	144
y	2X	Funk	G-4666 <sup>1</sup>	140	146	147	100	162	144
y	2X	Seedtec	2675	137	141	145	96	179	126
y	2X	Asgrow O's Gold	5509	137	139	146	96	188	118
y	2X	Seedtec	2686A	137	143	147	93	174	129
y	2X	Funk	RA1502	137	141	143	95	180	126
y	2X	Coker	21	137	142	147	87	180	129
y	2X	FFR	811C	136	128	145	96	180	131
y	2X	McCurdy	8150	136	133	146	90	182	130
y	2X	Pioneer	3320	136	134	143	97	173	131
y	2X	Stauffer	S7759	135	135	135	96	184	127
y	2X	Jacques	8350	134	146	134	99	171	123
y	3X	Funk	G-4765	134	147	135	93	172	125
w	2X	Funk	G-6044w	134	134	142	95	169	131
y	2X	AgraTech	GK750	134	137	136	95	171	131
y	2X	N.K.	PX9540	133	132	140	93	169	130
y	2X	Jacques	8250	133	147	143	99	149	127
y	2X	N.K.	PX9581	132	138	131	98	172	122
y	2X	Beck's	85XA	132	135	141	97	160	125
y	M2X	Funk	G-4733	131	137	142	89	164	125
y	2X	Coker	8625	130	136	124	94	167	129
y	2X	FFR	815C	124	125	134	86	155	122
L.S.D. (.05)				8.3	16.9	14.1	9.8	11.2	11.1
C.V. %				9.8	12.4	9.8	10.3	6.5	8.6
Avg.				136.3	138.7	144.5	95.5	173.1	129.6

<sup>1</sup> Evaluated in 1986 as Exp. 6066X with Entry No. 995 instead of 510 in 1987.

Table 6. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations for two years (1986-87).

Color	Cross	Brand	Hybrid	2 Yr. Avg. Yield	Lodged Plants	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	%	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Pioneer	3147	149	2.1	4.5	4.0	56	17.5
y	2X	DeKalb-Pfizer	DK689	147	1.0	2.7	3.2	54	16.5
y	2X	DeKalb-Pfizer	DK711	145	1.0	2.5	3.8	53	17.2
y	2X	Stauffer	8500	142	1.9	2.5	4.8	54	17.3
y	2X	Zimmerman	z-27y	141	2.2	3.0	4.0	56	15.4
y	2X	Funk	G-4666	140	1.0	3.1	3.0	53	15.7
y	2X	SeedTec	2675	137	4.2	3.2	3.5	52	16.8
y	2X	Asgrow O's Gold	5509	137	4.3	3.5	3.4	53	18.0
y	2X	SeedTec	2686A	137	2.0	3.0	2.7	54	18.2
y	2X	Funk	RA1502	137	4.3	3.6	3.6	51	16.8
y	2X	Coker	21	137	3.0	3.6	3.7	54	17.6
y	2X	FFR	811C	136	0.2	3.9	4.8	52	16.1
y	2X	McCurdy	8150	136	1.5	3.4	2.9	59	17.9
y	2X	Pioneer	3320	136	1.7	2.4	3.6	51	16.4
y	2X	Stauffer	S7759	135	0.6	3.5	4.3	54	15.5
y	2X	Jacques	8350	134	1.3	2.8	3.1	54	16.5
y	3X	Funk	G-4765	134	1.3	3.1	3.4	54	17.6
w	2X	Funk	G-6044w	134	3.9	3.0	3.2	53	19.0
y	2X	AgraTech	GK750	134	0.5	2.5	3.1	51	15.3
y	2X	N.K.	PX9540	133	1.2	2.8	3.3	49	15.5
y	2X	Jacques	8250	133	1.4	3.7	3.8	54	16.0
y	2X	N.K.	PX9581	132	2.7	3.1	3.6	52	16.8
y	2X	Beck's	85XA	132	0.3	3.3	3.4	51	17.7
y	M2X	Funk	G-4733	131	1.6	2.9	3.1	52	18.1
y	2X	Coker	8625	130	0.5	2.6	2.9	50	15.4
y	2X	FFR	815C	124	0.4	3.9	4.6	51	16.1
L.S.D. (.05)				8.3					
C.V. %				9.8					
Avg.				136.3					

<sup>1</sup>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 (1985-87).

Color	Cross	Brand	Hybrid	3 Yr. Avg.	Knox- ville	Spring Hill	Spring- field	Milan	Martin
Bushels per Acre									
y	2X	Pioneer	3147	154	152	111	180	175	151
y	2X	DeKalb-Pfizer	DK689	153	145	115	160	192	153
y	2X	Zimmerman	z-27y	149	139	102	165	185	156
y	2X	Stauffer	8500	148	142	109	160	180	150
y	2X	Asgrow/O's Gold	5509	145	141	99	156	197	130
y	2X	SeedTec	2686A	145	139	100	156	185	143
y	2X	Beck's	85XA	144	142	109	151	177	140
y	2X	Pioneer	3320	144	138	108	146	181	146
y	2X	McCurdy	8150	144	136	98	152	183	149
y	2X	Coker	21	144	143	95	155	187	138
y	2X	Funk	RA1502	144	142	102	147	185	142
y	3X	Funk	G-4765	143	143	104	149	180	138
y	2X	FFR	811C	142	131	100	146	192	143
y	2X	Stauffer	S7759	141	134	101	139	188	143
y	2X	SeedTec	2675	140	138	98	145	180	138
y	2X	N.K.	PX9581	138	137	102	138	180	134
y	2X	Funk	G-4733	137	137	98	150	169	133
y	2X	Coker	8625	137	136	99	133	170	148
y	2X	N.K.	PX9540	137	130	98	140	174	145
L.S.D. (.05)				4.9	12.0	8.1	11.4	10.6	11.4
C.V. %				9.5	10.6	9.8	9.4	7.2	9.8
Avg.				143.6	139.3	102.4	151.0	182.2	143.1

Table 8. Corn: Yield and other characteristics of medium-season hybrids evaluated for three years (1985-87).

Color	Cross	Brand	Hybrid	3 Yr. Avg. Yield	Lodged Plants	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	%	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Pioneer	3147	154	2.5	4.5	4.0	56	18.4
y	2X	DeKalb-Pfizer	DK689	153	0.7	2.8	3.2	54	17.1
y	2X	Zimmerman	z-27y	149	1.4	2.9	4.1	56	16.0
y	2X	Stauffer	8500	148	1.5	2.5	4.6	53	17.9
y	2X	Asgrow/O's Gold	5509	145	2.0	3.5	3.3	52	18.5
y	2X	SeedTec	2686A	145	1.6	3.2	3.1	54	18.2
y	2X	Beck's	85XA	144	0.3	3.3	3.3	51	18.3
y	2X	Pioneer	3320	144	0.9	2.4	3.5	52	17.0
y	2X	McCurdy	8150	144	1.4	3.4	3.0	59	18.6
y	2X	Coker	21	144	1.9	3.6	3.7	53	18.3
y	2X	Funk	RA1502	144	1.9	3.4	3.7	51	17.3
y	3X	Funk	G-4765	143	1.0	3.3	3.5	55	18.5
y	2X	FFR	811C	142	0.7	4.1	4.8	51	16.8
y	2X	Stauffer	S7759	141	0.5	3.5	4.3	54	16.0
y	2X	SeedTec	2675	140	2.0	3.4	3.3	51	17.3
y	2X	N.K.	PX9581	138	1.3	3.1	3.5	52	17.3
y	2X	Funk	G-4733	137	1.1	2.8	3.2	52	18.8
y	2X	Coker	8625	137	0.5	2.8	3.1	50	15.6
y	2X	N.K.	PX9540	137	0.8	2.6	3.4	49	15.8
L.S.D. (.05)				4.9					
C.V. %				9.5					
Avg.				143.6					

<sup>1</sup>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 1987.

Color	Cross	Brand	Hybrid	Avg.	1	2	3	4
					Ames Plantation	Knox- ville	Spring Hill	Jackson
Bushels per Acre								
y	2X	Pioneer	3165	139	117	134	118	188
y	2X	Pioneer	3147	131	100	127	110	186
w	2X	Exp.	T167xT85:210	130	97	133	108	184
y	2X	FFR	Exp 14914	127	111	120	115	162
w	2X	Pioneer	3144w	127	105	122	98	184
y	2X	Hytest	HT797	125	112	128	108	153
y	2X	Stauffer	S8645	125	111	129	101	158
y	3X	Cargill	9427	124	110	116	93	180
y	2X	AgraTech	GK850	124	117	116	106	158
w	2X	Zimmerman	z-16w	124	104	119	110	165
y	3X	Super Crost	5995	124	105	132	106	153
y	2X	Pioneer	3187	124	110	121	106	157
y	2X	McCurdy	8172	123	97	119	99	177
w	2X	Zimmerman	z-14w	122	107	118	99	164
y	2X	Jacques	8400	122	111	124	102	152
y	3X	Asgrow/O's Gold	6L45B02	122	106	121	106	155
w	M2X	Exp.	T85:210x(K55xC.I.66)	122	92	121	90	184
y	2X	Funk	G-4868	122	83	134	106	165
y	M2X	Sunbelt	1860	121	97	122	89	176
y	2X	DeKalb-Pfizer	DK789	121	93	122	104	164
y	2X	Cargill	8990	120	98	119	99	166
y	2X	AgraTech	GK900	120	100	117	113	152
w	2X	Exp.	T165xT167	120	90	119	108	161
w	M2X	Exp.	T165x(K55xC.I.66)	119	94	129	95	158
w	2X	Zimmerman	z-60w	119	100	125	105	144
w	2X	FFR	925w	119	100	127	96	152
y	M2X	Beck's	85MDM	118	104	118	99	153
y	2X	AgriGold	XA138	118	109	113	97	153
y	M3X	Funk	G-4858	117	106	122	102	137
y	2X	Asgrow/O's Gold	X9457	116	96	112	91	167
y	2X	Beck's	90XS	116	99	118	97	151
y	2X	Sun Prairie	SP5850	116	107	111	98	146
y	2X	Asgrow/O's Gold	X9787	115	89	104	105	163
w	3X	DeKalb-Pfizer	DK77w	115	87	108	91	176
w	2X	Zimmerman	z-11w	114	99	119	95	144
y	2X	AgriGold	XA876	112	105	117	98	128
w	2X	Princeton	SX933	108	80	110	85	158
y	2X	N.K.	PX95	105	98	101	82	140
L.S.D. (.05)				9.4	15.7	12.5	15.7	25.7
C.V. %				11.1	11.1	7.4	11.1	11.3
Avg.				120.7	101.2	120.2	100.8	160.8

<sup>1</sup>Loring silt loam (2% to 5% slopes).<sup>2</sup>Sequatchie silt loam (2% to 5% slopes).<sup>3</sup>Maury silt loam (2% to 5% slopes).<sup>4</sup>Lexington silt loam (2% to 5% slopes).

Table 10. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations in 1987.

Color	Cross	Brand	Hybrid	Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Pioneer	3165	139	2.7	3.8	47	17.6
y	2X	Pioneer	3147	131	5.0	4.3	51	15.8
w	2X	Exp.	T167xT85:210	130	3.2	2.8	52	18.3
y	2X	FFR	Exp 14914	127	3.2	4.3	51	16.2
w	2X	Pioneer	3144w	127	3.2	3.8	49	17.3
y	2X	Hytest	HT797	125	3.2	3.7	51	17.5
y	2X	Stauffer	S8645	125	3.5	3.0	46	15.8
y	3X	Cargill	9427	124	3.5	3.7	48	16.3
y	2X	AgraTech	GK850	124	4.0	3.5	44	16.9
w	2X	Zimmerman	z-16w	124	2.7	3.2	46	18.8
y	3X	Super Crost	5995	124	3.2	3.3	48	16.2
y	2X	Pioneer	3187	124	2.5	3.5	49	16.2
y	2X	McCurdy	8172	123	2.7	3.7	50	17.4
w	2X	Zimmerman	z-14w	122	2.7	2.5	48	17.6
y	2X	Jacques	8400	122	2.7	4.3	46	16.8
y	3X	Asgrow/O's Gold	6L45B02	122	3.5	4.2	48	16.2
w	M2X	Exp. T85:210x(K55xC.I.66)		122	3.0	2.5	53	20.7
y	2X	Funk	G-4868	122	3.2	2.8	49	19.0
y	M2X	Sunbelt	1860	121	3.8	3.3	49	19.7
y	2X	DeKalb-Pfizer	DK789	121	3.8	4.2	45	17.8
y	2X	Cargill	8990	120	3.5	3.3	47	17.9
y	2X	AgraTech	GK900	120	3.2	4.3	46	16.9
w	2X	Exp.	T165xT167	120	3.2	2.5	50	17.0
w	M2X	Exp. T165x(K55xC.I.66)		119	3.0	2.8	47	19.1
w	2X	Zimmerman	z-60w	119	3.8	2.8	48	17.5
w	2X	FFR	925w	119	3.0	3.3	48	18.5
y	M2X	Beck's	85MDM	118	3.8	3.2	53	17.5
y	2X	AgriGold	XA138	118	4.0	5.2	45	16.1
y	M3X	Funk	G-4858	117	2.7	3.0	48	18.3
y	2X	Asgrow/O's Gold	X9457	116	3.0	3.2	39	17.8
y	2X	Beck's	90XS	116	3.5	4.2	35	18.0
y	2X	Sun Prairie	SP5850	116	4.0	4.8	48	16.4
y	2X	Asgrow/O's Gold	X9787	115	2.5	2.2	44	18.1
w	3X	DeKalb-Pfizer	DK77w	115	3.2	2.8	50	18.6
w	2X	Zimmerman	z-11w	114	3.0	2.5	54	18.6
y	2X	AgriGold	XA876	112	2.7	3.2	46	16.5
w	2X	Princeton	SX933	108	3.5	3.3	48	18.5
y	2X	N.K.	PX95	105	4.7	3.3	48	17.1

<sup>1</sup>Rating 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 (1986-87).

Color	Cross	Brand	Hybrid	2 Yr. Avg.	Ames Plantation	Knox- ville	Spring Hill	Jackson
Bushels per Acre								
y	2X	Pioneer	3165	130	125	144	94	156
y	2X	Pioneer	3187	120	118	128	94	138
w	2X	Pioneer	3144w	119	124	124	86	144
y	2X	AgraTech	GK850	119	123	126	86	139
y	2X	Stauffer	S8645	118	117	129	92	132
y	2X	Pioneer	3147	117	116	122	87	141
y	2X	Jacques	8400	116	117	130	91	128
y	2X	McCurdy	8172	116	108	124	83	150
w	2X	Exp.	T165xT167	116	104	128	94	138
y	2X	AgraTech	GK900	116	115	124	94	131
w	2X	Zimmerman	z-14w	115	116	125	84	136
y	2X	Cargill	8990	114	111	121	83	142
w	2X	Zimmerman	z-60w	113	108	130	86	130
y	2X	DeKalb-Pfizer	DK789	112	107	129	84	130
y	2X	Sunbelt	1860	112	106	128	77	137
y	M3X	Funk	G-4868	112	96	139	80	132
w	2X	FFR	925w	111	109	129	78	128
y	M3X	Funk	G-4858	111	111	129	81	121
w	3X	DeKalb-Pfizer	DK77w	109	101	123	74	137
w	2X	Zimmerman	z-11w	106	113	122	74	116
y	2X	N.K.	PX95	102	108	109	68	124
y	2X	Princeton	SX933	101	92	112	72	129
L.S.D. (.05)				7.7	11.4	15.3	10.7	17.9
C.V. %				13.7	10.4	12.2	13.0	13.5
Avg.				113.9	111.2	126.3	83.7	134.4

Table 12. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for two years (1986-87).

Color	Cross	Brand	Hybrid	2 Yr. Avg. Yield	Lodged Plants	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	%	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Pioneer	3165	130	0.8	2.8	3.6	51	20.1
y	2X	Pioneer	3187	120	2.0	2.6	3.4	51	19.0
w	2X	Pioneer	3144w	119	2.0	3.4	3.9	54	19.7
y	2X	AgraTech	GK850	119	2.4	3.3	3.9	49	19.1
y	2X	Stauffer	S8645	118	1.5	3.8	3.1	50	18.0
y	2X	Pioneer	3147	117	3.0	4.9	4.1	52	19.1
y	2X	Jacques	8400	116	1.8	3.3	4.6	48	19.8
y	2X	McCurdy	8172	116	2.4	2.9	3.8	52	20.6
w	2X	Exp.	T165xT167	116	5.3	3.2	2.8	54	19.7
y	2X	AgraTech	GK900	116	1.8	3.7	4.4	50	19.8
w	2X	Zimmerman	z-14w	115	3.3	3.0	2.5	51	20.0
y	2X	Cargill	8990	114	4.4	3.6	3.3	50	20.4
w	2X	Zimmerman	z-60w	113	3.1	3.5	2.8	52	20.5
y	2X	DeKalb-Pfizer	DK789	112	3.1	3.8	3.9	49	20.2
y	2X	Sunbelt	1860	112	2.0	3.8	3.5	53	22.2
y	M3X	Funk	G-4868	112	1.8	3.4	2.7	53	23.7
w	2X	FFR	925w	111	2.8	3.3	2.9	53	20.7
y	M3X	Funk	G-4858	111	2.8	3.2	3.1	51	21.5
w	3X	DeKalb-Pfizer	DK77w	109	2.6	3.3	2.8	55	20.9
w	2X	Zimmerman	z-11w	106	3.3	3.4	2.7	55	22.1
y	2X	N.K.	PX95	102	6.0	4.0	3.4	53	20.0
y	2X	Princeton	SX933	101	4.6	3.6	3.5	51	21.7
L.S.D. (.05)				7.7					
C.V. %				13.7					
Avg.				113.9					

<sup>1</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 13. Corn: Yield of full-season hybrids evaluated at four locations for three years (1985-87).

Color	Cross	Brand	Hybrid	3 Yr. Avg.	Ames Plantation	Knox- ville	Spring Hill	Jackson
Bushels per Acre								
y	2X	Pioneer	3165	136	136	150	112	147
y	2X	Pioneer	3147	124	129	132	99	134
y	2X	Jacques	8400	122	125	137	100	125
w	2X	Exp.	T165xT167	121	116	135	103	131
w	2X	Zimmerman	z-14w	121	123	135	96	131
y	2X	AgraTech	GK900	121	119	134	104	127
y	2X	Funk	G-4868	121	114	142	99	128
y	2X	AgraTech	GK850	120	126	133	93	128
y	2X	McCurdy	8172	120	116	130	93	139
y	2X	DeKalb-Pfizer	DK789	119	118	136	99	123
y	M3X	Funk	G-4858	119	124	135	96	119
y	2X	Cargill	8990	118	118	132	92	131
w	2X	Zimmerman	z-60w	118	119	136	98	120
w	2X	Zimmerman	z-11w	116	126	133	92	113
w	3X	DeKalb-Pfizer	DK77w	114	110	130	89	129
L.S.D. (.05)				6.0	8.5	11.7	10.1	14.7
C.V. %				8.7	8.7	10.8	12.8	14.2
Avg.				121.4	121.4	135.3	97.6	128.3

Table 14. Corn: Yield and other characteristics of full-season hybrids evaluated for three years (1985-87).

Color	Cross	Brand	Hybrid	3 Yr. Avg. Yield	Lodged Plants	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	%	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Pioneer	3165	136	0.8	2.6	3.9	49	20.8
y	2X	Pioneer	3147	124	2.3	3.5	3.5	50	20.5
y	2X	Jacques	8400	122	2.1	2.8	4.6	46	20.5
w	2X	Exp.	T165xT167	121	3.0	3.5	3.0	52	20.1
w	2X	Zimmerman	z-14w	121	1.3	2.8	2.4	49	21.1
y	2X	AgraTech	GK900	121	0.6	2.6	4.5	44	20.5
y	2X	Funk	G-4868	121	1.3	2.7	3.5	52	24.4
y	2X	AgraTech	GK850	120	1.0	3.4	3.9	46	19.9
y	2X	McCurdy	8172	120	1.7	2.7	3.6	47	21.3
y	2X	DeKalb-Pfizer	DK789	119	2.1	3.0	4.2	49	21.7
y	MBX	Funk	G-4858	119	1.0	3.2	4.0	47	21.9
y	2X	Cargill	8990	118	1.3	2.7	3.8	47	21.2
w	2X	Zimmerman	z-60w	118	1.1	3.0	2.6	51	21.4
w	2X	Zimmerman	z-11w	116	3.6	2.4	2.7	51	22.6
w	3X	DeKalb-Pfizer	DK77w	114	2.2	3.5	2.5	52	22.0
L.S.D. (.05)				6.0					
C.V. %				8.7					
Avg.				121.4					

<sup>1</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 15. Corn: Yield of 30 early-maturing hybrids evaluated at four locations in 1987.

Color	Cross	Brand	Hybrid	Avg.	1	2	3	3
					Knox- ville	Ames Plantation	Milan	Martin
Bushels per Acre								
y	2X	AgriPro	HP555	149	139	129	191	135
y	2X	McCurdy	7676	145	133	131	200	118
y	2X	Pfister	4470	145	138	130	196	115
y	2X	Asgrow/O's Gold	2570	144	131	136	198	110
y	2X	Pioneer	3389	140	119	123	189	131
y	2X	N.K.	PX9646	139	128	118	200	109
y	2X	Pfister	4571	139	121	131	192	111
y	M2X	Funk	G-4522	138	130	115	188	119
y	2X	Pfister	4444	136	126	120	195	104
y	2X	Jacques	7820	136	121	116	187	120
y	2X	Funk	G-6064E	136	130	112	178	123
y	2X	Super Crost	5438	135	119	114	194	114
y	2X	Funk	G-4626	135	123	121	201	96
y	2X	Hytest	HT650A	135	121	117	183	119
y	2X	Coker	8601	135	116	121	190	111
y	2X	Hytest	712	134	121	108	180	125
y	2X	Funk	G-4543	134	122	111	184	117
y	2X	AgriPro	AP670	133	117	115	183	119
y	2X	DeKalb-Pfizer	DK656	133	127	105	194	106
y	2X	DeKalb-Pfizer	DK636	133	119	105	182	126
y	2X	Cargill	SX352	133	120	110	192	109
y	2X	Funk	G-6080E	133	120	110	191	110
y	2X	Beck's	65X	132	116	110	179	123
y	2X	Asgrow/O's Gold	XP7927	132	118	120	173	116
y	2X	Capehart	798	131	114	112	191	108
y	2X	FFR	747C	131	120	110	172	122
y	2X	Asgrow/O's Gold	3344	130	116	118	178	109
y	2X	Capehart	757	130	120	102	175	125
y	2X	Pioneer	3378	127	110	107	183	107
y	2X	Coker	8575	124	112	107	177	100
L.S.D. (.05)				8.3	12.2	13.6	16.1	20.2
C.V. %				8.8	7.1	8.3	6.1	12.5
Avg.				135.2	122.2	116.2	187.1	115.4

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

Table 16. Corn: Yield and other characteristics of 30 early-maturing hybrids evaluated at four locations in 1987.

Color	Cross	Brand	Hybrid	Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	AgriPro	HP555	149	3.0	2.7	57	16.3
y	2X	McCurdy	7676	145	3.5	3.5	54	15.8
y	2X	Pfister	4470	145	3.0	4.2	56	16.8
y	2X	Asgrow/O's Gold	2570	144	3.0	2.8	54	16.7
y	2X	Pioneer	3389	140	2.5	5.0	50	15.6
y	2X	N.K.	PX9646	139	3.5	4.8	50	17.9
y	2X	Pfister	4571	139	2.5	2.8	52	16.9
y	M2X	Funk	G-4522	138	3.5	3.3	47	16.1
y	2X	Pfister	4444	136	3.0	3.3	49	15.3
y	2X	Jacques	7820	136	2.5	3.0	48	15.9
y	2X	Funk	G-6064E	136	2.5	3.2	50	16.1
y	2X	Super Crost	5438	135	3.5	4.3	51	16.1
y	2X	Funk	G-4626	135	4.0	3.0	48	15.6
y	2X	Hystest	HT650A	135	2.0	3.0	47	15.3
y	2X	Coker	8601	135	4.0	4.8	39	14.6
y	2X	Hystest	712	134	3.0	2.8	51	14.9
y	2X	Funk	G-4543	134	2.0	3.2	51	15.8
y	2X	AgriPro	AP670	133	2.0	3.2	49	16.2
y	2X	DeKalb-Pfizer	DK656	133	3.5	4.5	50	15.6
y	2X	DeKalb-Pfizer	DK636	133	2.5	3.0	49	15.7
y	2X	Cargill	SX352	133	3.0	5.0	55	15.8
y	2X	Funk	G-6080E	133	3.0	2.8	51	15.6
y	2X	Beck's	65X	132	3.0	3.3	43	16.8
y	2X	Asgrow/O's Gold	XP7927	132	3.0	3.7	44	17.0
y	2X	Capehart	798	131	4.0	4.7	50	15.4
y	2X	FFR	747C	131	3.0	2.8	49	15.8
y	2X	Asgrow/O's Gold	3344	130	3.5	3.2	49	15.4
y	2X	Capehart	757	130	3.0	3.3	47	15.7
y	2X	Pioneer	3378	127	3.5	4.5	47	14.6
y	2X	Coker	8575	124	4.5	5.0	44	15.0

<sup>1</sup>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 (1986-87).

Color Cross	Brand	Hybrid	2 Yr. Avg.	Knox- ville	Ames Plantation	Milan	Martin	
Bushels per Acre								
y	2X	AgriPro	HP555	141	145	125	178	117
y	2X	Asgrow/O's Gold	2570	141	139	132	182	110
y	2X	Pioneer	3389	139	130	120	177	128
y	2X	McCurdy	7676	139	139	131	176	110
y	2X	DeKalb-Pfizer	DK636	135	126	115	169	129
y	2X	Super Crost	5438	135	128	122	181	107
y	2X	Asgrow/O's Gold	XP7927	134	137	114	170	115
y	2X	DeKalb-Pfizer	DK656	134	132	114	182	107
y	2X	Funk	G-4626	133	129	119	183	101
y	2X	Funk	G-4522	132	130	112	176	111
y	M2X	Beck's	65X	131	121	117	167	119
y	2X	Asgrow/O's Gold	3344	131	124	114	169	115
y	2X	FFR	747C	130	127	112	162	118
y	2X	Pioneer	3378	130	120	113	174	111
y	2X	Coker	8575	123	120	104	169	99
L.S.D. (.05)				6.6	12.9	11.8	11.6	13.7
C.V. %				10.0	10.0	10.1	6.7	12.2
Avg.				133.7	129.7	117.7	174.4	113.2

Table 18. Corn: Yield and other characteristics of early-maturing hybrids evaluated at four locations for two years (1986-87).

Color	Cross	Brand	Hybrid	2 Yr. Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	AgriPro	HP555	141	3.0	2.7	57	19.0
y	2X	Asgrow/O's Gold	2570	141	3.0	2.9	56	19.1
y	2X	Pioneer	3389	139	2.7	5.2	53	18.0
y	2X	McCurdy	7676	139	3.2	3.3	56	18.6
y	2X	DeKalb-Pfizer	DK636	135	2.5	3.0	51	17.4
y	2X	Super Crost	5438	135	3.2	4.4	53	18.4
y	2X	Asgrow/O's Gold	XP7927	134	3.2	3.4	47	18.2
y	2X	DeKalb-Pfizer	DK656	134	3.5	4.5	53	17.7
y	2X	Funk	G-4626	133	3.0	3.0	51	18.2
y	2X	Funk	G-4522	132	3.2	3.3	50	18.7
y	M2X	Beck's	65X	131	3.5	3.6	50	18.8
y	2X	Asgrow/O's Gold	3344	131	3.8	3.5	53	17.9
y	2X	FFR	747C	130	2.7	2.9	51	18.3
y	2X	Pioneer	3378	130	3.2	4.4	50	16.5
y	2X	Coker	8575	123	4.0	4.6	47	16.7
L.S.D. (.05)				6.6				
C.V. %				10.0				
Avg.				133.7				

<sup>1</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.



Table 19. Corn: Yield of 13 early-maturing hybrids evaluated at four locations for three years (1985-87).

Color Cross	Brand	Hybrid	3 Yr. Avg.	Ames Plantation	Knox- ville	Milan	Martin	
Bushels per Acre								
y	2X	Asgrow/O's Gold	2570	147	135	147	185	122
y	2X	AgriPro	HP555	147	129	155	183	123
y	2X	McCurdy	7676	147	133	146	180	127
y	2X	Pioneer	3389	146	127	135	182	142
y	2X	DeKalb-Pfizer	DK636	141	123	134	175	132
y	2X	Super Crost	5438	140	128	132	184	117
y	2X	DeKalb-Pfizer	DK656	138	116	137	187	113
y	2X	Pioneer	3378	138	120	130	176	127
y	2X	Beck's	65X	138	121	130	175	128
y	2X	FFR	747C	138	118	138	169	125
y	2X	Asgrow/O's Gold	3344	137	118	130	173	125
y	2X	Funk	G-4522	136	114	136	171	124
y	2X	Coker	8575	128	107	132	169	104
L.S.D. (.05)				6.7	9.2	9.9	9.9	21.0
C.V. %				11.9	9.3	8.9	6.9	20.0
Avg.				140.2	122.2	137.2	177.5	123.8

Table 20. Corn: Yield and other characteristics of 13 early-maturing hybrids evaluated for three years (1985-87).

Color	Cross	Brand	Hybrid	3 Yr. Avg. Yield	Lodged Plants	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	%	Rating <sup>1</sup>	Rating <sup>1</sup>	In.	%
y	2X	Asgrow/O's Gold	2570	147	1.6	2.8	3.2	54	20.1
y	2X	AgriPro	HP555	147	0.6	2.3	2.2	56	20.1
y	2X	McCurdy	7676	147	0.6	2.3	2.6	54	19.5
y	2X	Pioneer	3389	146	0.0	2.2	5.1	53	18.8
y	2X	DeKalb-Pfizer	DK636	141	0.2	2.3	2.7	49	18.3
y	2X	Super Crost	5438	140	0.2	3.2	4.5	53	19.2
y	2X	DeKalb-Pfizer	DK656	138	0.0	2.7	4.1	53	19.0
y	2X	Pioneer	3378	138	0.0	3.0	5.6	54	17.6
y	2X	Beck's	65X	138	0.8	2.7	4.5	52	19.5
y	2X	FFR	747C	138	0.2	2.2	2.2	49	19.0
y	2X	Asgrow/O's Gold	3344	137	1.0	2.5	3.0	51	18.9
y	2X	Funk	G-4522	136	0.6	2.7	3.8	47	19.6
y	2X	Coker	8575	128	0.2	2.8	4.7	46	18.0
L.S.D. (.05)				6.7					
C.V. %				11.9					
Avg.				140.2					

<sup>1</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 21. Corn: Yield and other characteristics of 38 extra hybrids evaluated at Knoxville in 1987.<sup>1</sup>

Color	Cross	Brand	Hybrid	Avg. Yield	Grain Quality	Husk Cover	Ear Ht.	Grain Moisture at Harvest
				Bu/A	Rating <sup>2</sup>	Rating <sup>2</sup>	In.	%
y	2X	Pioneer	3147	148	4.0	3.0	50	20.2
y	2X	Garst	8315	147	2.5	3.5	55	17.1
y	2X	Pfister	3900	144	3.0	2.5	48	17.1
y	2X	Garst	8180	143	2.0	3.0	54	18.2
w	M2X	Pfister	4680w	141	3.0	3.5	62	21.6
y	2X	McCurdy	85-60	140	3.5	3.0	52	20.5
y	2X	Sun Prairie	SP3150	139	3.0	2.5	54	21.0
y	M2X	FFR Exp.	16049	138	3.5	2.5	54	18.9
		Deltapine	DPX4670	138	2.5	3.0	53	18.2
y	2X	Pioneer	3320	137	2.0	3.0	44	19.4
y	2X	FFR Exp.	1436309	135	2.5	2.5	47	20.0
y	2X	Beck's	85MDM	133	3.5	3.0	53	20.1
		Deltapine	DPX9686	132	3.5	3.0	56	18.0
w	2X	AgriGold	A6795w	131	3.0	3.5	49	22.0
		Deltapine	DPX8751	130	3.5	3.0	53	20.9
y	2X	FFR Exp.	12956	129	2.5	2.0	53	21.2
y	2X	Capehart	821	129	3.0	4.0	43	17.4
		Deltapine	DPX4151	128	2.0	2.5	47	17.0
y	M2X	FFR Exp.	15983	126	3.0	4.0	55	18.2
		Deltapine	DPX6650	126	2.0	3.5	45	17.2
y	2X	Capehart	825	126	3.5	3.5	46	20.4
		Deltapine	DPX7345	125	3.0	3.0	52	16.6
y	2X	AgraTech	888	125	2.5	3.0	48	18.3
y	M2X	FFR Exp.	15982	124	2.5	4.0	49	19.3
		Deltapine	DPX9986	124	2.5	3.0	49	21.2
y	2X	Super Crost	219	119	3.0	3.5	39	18.7
y	2x	Sun Belt	1802	118	3.0	4.0	49	20.9
w	2X	Sun Belt	6225	118	3.5	3.5	48	21.4
y	2X	Sun Prairie	SP3156	118	3.5	3.5	44	16.6
y	2X	Hy-Performer	X-8601	117	3.5	3.0	49	16.1
y	2X	N.K.	PX79	116	4.5	4.0	43	15.9
y	2X	Hy-Performer	X-956	115	3.0	3.0	46	20.3
y	2X	Garst	8344	115	2.0	2.0	46	17.4
y	2X	Cargill	7990	115	4.0	4.0	43	16.3
y	2X	FFR Exp.	14914	114	3.5	4.0	52	19.5
y	2X	FFR Exp.	40019	114	3.0	4.0	40	18.4
y	2X	Sun Prairie	SP3300	112	2.5	3.5	38	18.0
w		Asgrow	XP7935w	103	4.0	4.5	44	16.6

L.S.D. (.05)

17.1

C.V. %

9.6

Avg.

127.2

<sup>1</sup>Sequatchie silt loam (2% to 5% slopes).<sup>2</sup>Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 22. Performance of corn hybrids grown under virus disease conditions (MDMV-A/MCDV) at Knoxville in 1987.

Brand	Hybrid	Grain Yield	Grain Moisture	Stalk Lodging	Virus Diseased Plants	Virus Severity
		Bu/A	%	%	%	Rating <sup>1</sup>
Pioneer	3147	139.4	25.6	22.3	77.0	3.0
Jacques	8250	135.9	23.2	6.6	90.9	3.4
DeKalb-Pfizer	DK689	134.6	23.8	8.2	84.8	3.0
Coker	8696	132.6	23.6	7.4	88.2	3.1
FFR	Exp 14914	127.9	24.0	10.2	79.5	3.1
Funk	G-6080E	124.9	22.7	9.4	90.3	3.3
Pfister	4444	123.6	20.7	18.8	96.6	3.8
DeKalb-Pfizer	DK789	122.9	25.8	9.8	94.1	3.5
McCurdy	85-60	122.9	24.1	14.8	79.2	3.2
Beck's	85MDM	121.9	23.5	13.7	78.6	3.1
Hytest	HT797	121.7	23.0	9.4	89.4	3.3
Pioneer	3187	121.1	24.4	7.0	90.7	3.3
Super Crost	5995	120.2	22.8	11.3	90.5	3.6
Hy-Performer	S-336	119.7	20.8	15.2	99.0	4.0
Jacques	8400	119.3	22.9	18.8	85.1	3.9
Zimmerman	z-60w	118.1	25.6	20.3	86.5	3.5
FFR	815C	116.0	22.7	6.3	95.5	4.1
Funk	G-4858	112.8	26.9	25.8	78.6	3.1
Funk	G-4868	112.7	28.2	28.1	86.8	3.6
Funk	G-4765	112.1	23.4	21.1	85.3	3.4
SeedTec	ST-7750	109.8	22.7	17.6	97.0	3.9
Zimmerman	z-14w	107.5	26.0	12.9	95.1	4.0
Funk	G-4666	107.5	22.1	12.9	97.7	4.0
FFR	Exp 12956	106.9	27.4	47.7	80.8	3.1
Stauffer	S8645	105.3	22.1	12.1	98.6	4.2
N.K.	PX79	104.3	20.6	10.5	96.4	3.9
Zimmerman	z-16w	104.1	26.7	22.7	89.8	3.7
FFR	Exp 16049	102.9	25.3	14.5	89.3	3.7
Hy-Performer	X-9340	102.8	21.8	14.5	99.0	4.3
Funk	G-4753	102.3	26.6	14.8	93.0	3.9
FFR	Exp 15983	102.0	22.4	9.4	96.1	4.3
Capehart	825	99.1	23.2	5.9	81.7	3.7
McCurdy	7700	99.0	21.9	11.3	100.0	4.3
FFR	Exp 14363	97.5	23.8	14.8	98.6	4.5
Zimmerman	z-11w	95.9	24.6	21.9	94.6	3.6
N.K.	PX95	95.0	24.4	20.7	94.8	3.7
Sunbelt	1860	93.1	28.0	22.3	96.7	4.2
Zimmerman	z-38	91.7	22.3	13.3	100.0	5.0
Zimmerman	z-27y	80.5	21.4	22.3	99.0	4.8
Princeton	SP933	74.1	25.1	23.0	100.0	5.2
DeKalb-Pfizer	DK77w	73.2	26.9	27.3	95.5	4.7
Zimmerman	z-45	59.7	21.8	26.2	98.0	5.5
(check)	T218 x T13	4.1	25.5	53.9	100.0	6.9
L.S.D (.05)		20.3	1.0	10.0	11.0	0.7
C.V. %		13.6	2.0	41.5	8.6	12.3
Avg.		106.5	24.0	17.1	91.6	3.9

<sup>1</sup> Virus severity rating scale = 1 to 9; where 1 = no virus symptoms and 9 = dead plants.

Table 23. Performance of corn hybrids grown under virus disease conditions (MDMV-A/MCDV) at Knoxville for two years (1986-87).<sup>1</sup>

Brand	Hybrid	Grain Yield	Grain Moisture	Virus Diseased Plants	Virus Severity
		Bu/A	%	%	Rating <sup>2</sup>
DeKalb-Pfizer	DK689	110	22.7	65	2.6
Jacques	8400	108	21.0	72	3.5
McCurdy	85-60	107	22.8	61	2.7
Pioneer	3147	105	24.1	59	2.6
Jacques	8250	104	21.9	73	3.1
FFR	815C	100	22.6	65	3.0
Beck's	85MDM	98	23.2	56	2.5
Coker	8696	94	22.5	61	2.5
Funk	G-4858	90	24.8	76	3.1
SeedTec	ST-7750	90	20.4	87	3.6
Zimmerman	z-60w	88	23.4	80	3.5
Stauffer	S8645	87	20.3	84	3.6
Funk	G-4868	85	27.1	76	3.3
N. K.	PX79	85	20.1	76	3.3
DeKalb-Pfizer	DK789	83	24.3	71	2.9
Pioneer	3187	82	22.7	79	3.0
Funk	G-4765	82	21.6	83	3.7
Sunbelt	1860	69	26.4	83	3.7
DeKalb-Pfizer	DK77w	64	24.8	94	4.5
Zimmerman	z-11w	60	23.6	86	3.9
Avg.		90	23.0	74	3.2

<sup>1</sup> This test was grown in an area heavily infested with johnsongrass to insure virus disease pressure. Yields are dependent on virus susceptibility and ability to compete with johnsongrass.

<sup>2</sup> Virus severity scale 1 to 9; where 1 = no virus symptoms and 9 = dead plants.

Table 24. Performance of corn hybrids grown under virus disease conditions (MDMV-A/MCDV) at Knoxville for three years (1985-87).<sup>1</sup>

Brand	Hybrid	Grain Yield	Grain Moisture	Virus Diseased Plants	Virus Severity
		Bu/A	%	%	Rating <sup>2</sup>
DeKalb-Pfizer	DK689	113	21.8	68	2.8
FFR	815C	105	21.7	69	3.2
Pioneer	3147	101	23.6	59	2.9
Beck's	85MDM	99	22.2	63	3.0
Jacques	8400	97	20.5	78	4.1
Funk	G-4858	94	24.2	78	3.5
Zimmerman	z-60w	93	22.5	82	3.8
DeKalb-Pfizer	DK789	87	23.9	74	3.2
Funk	G-4765	82	21.0	87	4.1
Zimmerman	z-11w	71	22.8	86	4.1
DeKalb-Pfizer	DK77w	66	23.9	95	4.9
Avg.		92	22.5	77	3.6

<sup>1</sup> This test was grown in an area heavily invested with johnsongrass to insure virus disease pressure. Yields are dependent on both virus susceptibility and ability to compete with johnsongrass.

<sup>2</sup> Virus severity scale of 1 to 9; where 1 = no virus symptoms and 9 = dead plants.

Virus data obtained in cooperation with D. R. Kincer and D. R. West.

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