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Agricultural Experiment Station
Department of Plant and Soil Science

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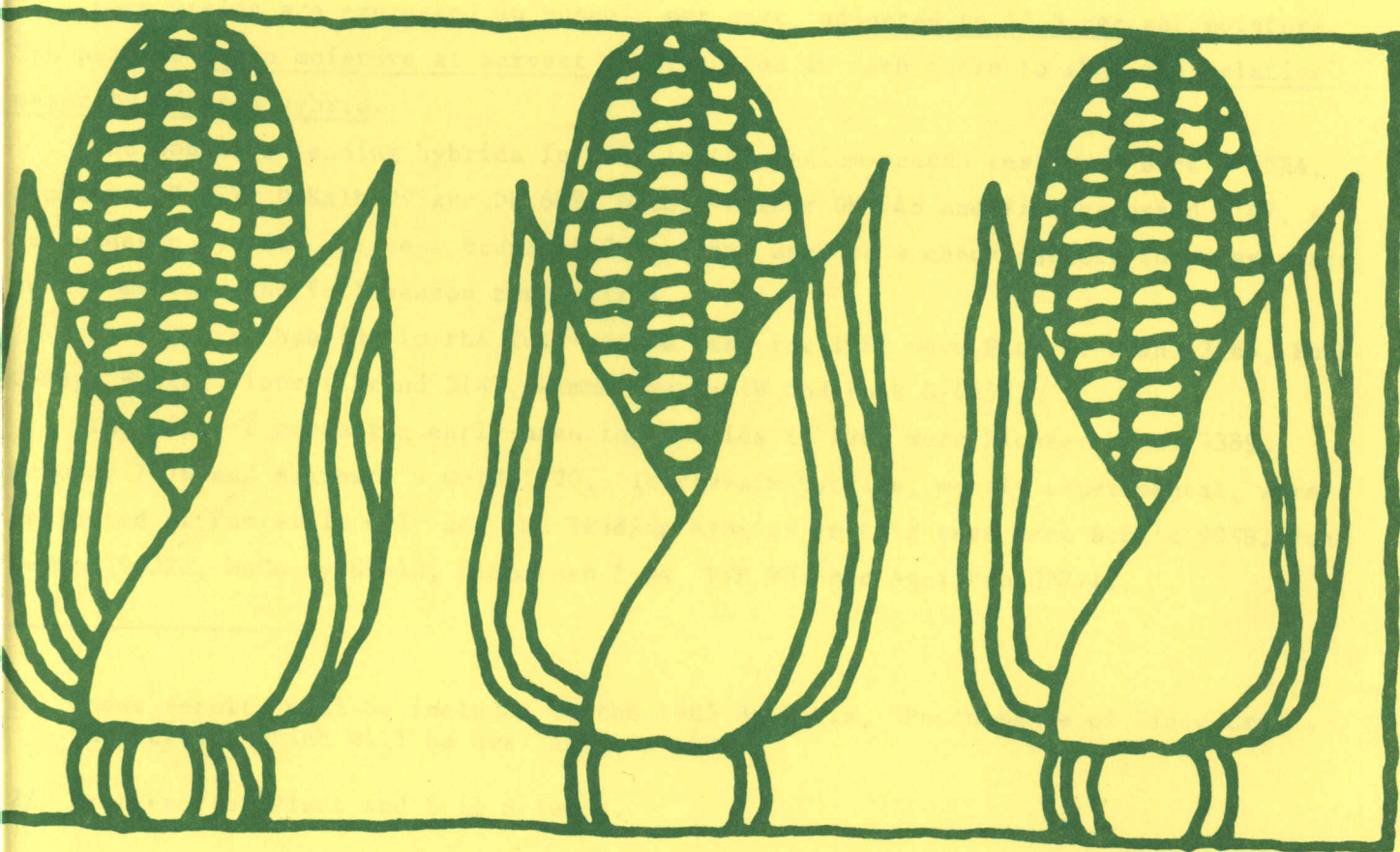
Performance of Corn Hybrids in 1985

Charles R. Graves

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PERFORMANCE OF CORN HYBRIDS IN 1985^{1/}

Charles R. Graves^{2/}

The medium-season state corn hybrid tests were conducted at seven locations, the full-season tests at four, and the early-maturing tests at five locations. No data are reported for the medium-season test at Greeneville due to severe drought which resulted in yield variability within replications; this resulted in a very high coefficient of variation. At most locations in Middle and West Tennessee, the growing conditions were excellent and resulted in high yields. At Knoxville and Greeneville, yields were reduced due to dry weather during silking and tasseling.

All tests were over-planted and thinned to about 20,000 plants per acre. The tests were fertilized with 150 pounds or more of nitrogen. At Knoxville 1,000 lbs. of 6-12-12 per acre were broadcast prior to planting and 300 lbs. of ammonium nitrate per acre were sidedressed after the corn had been thinned.

Phosphorous and potassium were applied according to soil test recommendation. The plot size for hand harvested plots in most cases was two rows 11 feet long and the plot size for the mechanically harvested plots was two rows 25 to 30 feet in length replicated four or five times. The corn tests at Jackson, Martin and Milan were harvested with a picker-sheller and all other tests were harvested by hand in 1985.

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

The top five leading hybrids in 1985 in the medium-season test were Beck's 85XA, Zimmerman Z-27Y, DeKalb-Pfizer DK 689, DeKalb-Pfizer DK 748 and Pioneer brand 3147, a full-season hybrid. Pioneer brand 3147 has been used as a check variety for many years in the medium- and full-season corn trials.

The leading hybrids in the full-season test for 1985 were Pioneer brand 3165, Funk G-Exp. 9002X, Pioneer brand 3147, Zimmerman Z-11W and Funk G-4858.

The highest producing early-maturing hybrids in 1985 were Pioneer brand 3389, McCurdy 7676 and Asgrow/O's Gold 2570. Thirty-six hybrids, mostly experimental, were evaluated at Knoxville only and the leading hybrids in this test were Beck's 90XS, Funk G-Exp. 9002X, McCurdy 83-40, Zimmerman Z-34, FFR 901 and Agri Pro HP771.

^{1/} These results will be included in the 1985 Bulletin, "Performance of Field Crop Varieties", which will be available in 1986.

^{2/} Professor of Plant and Soil Science.

The Recommended Corn Hybrids for 1986 are as Follows:
3 Year Average (1983-85)

			Tolerance to ^{2/}		Moisture		
Maturity Group	Grain Color	Hybrid	Corn Virus Complex	Erect Plants %	Quality Rating (1-9)	at Harvest %	Yield Bu/A
Early-Season	Yellow	Pioneer brand 3389	Med-Low	100	2.7	21.3	158
		McCurdy 7676	Low	98	2.7	22.4	156
		Asgrow/O's Gold 2570	Low	97	3.1	23.0	156
		FFR 788C	Low	99	3.3	22.1	153
		Pioneer brand 3358	Low	100	2.9	22.5	150
		USS 7001	Low	98	3.3	21.9	149
		Funk G-4522	Low	99	3.1	22.4	148
		Asgrow/O's Gold 3344	Med-Low	96	3.0	21.6	143
		FFR 799C	Low	97	3.2	22.6	138
		FFR 717C ^{1/3/}	Med-High	94	3.1	20.9	124
		N.K. PX79 ^{4/}	Med-Low	-	-	-	-
		Coker 19 ^{1/}	Low	-	-	-	-
P.A.G. SX333 ^{1/}	Low	-	-	-	-		
Medium-Season	Yellow	DeKalb-Pfizer DK-748 ^{5/}	Low	-	-	-	-
		DeKalb-Pfizer DK-689	Med-High	-	-	-	-
		Pioneer brand 3320	Low	93	2.5	19.1	148
		Beck's 85XA	Med	97	3.2	20.6	148
		McCurdy 8150	Low	93	3.2	20.7	146
		Coker 21	Low	93	3.2	21.1	145
		RA 1502	Low	97	3.2	19.3	144
		Pioneer brand 3184	Med-Low	99	3.5	20.5	143
		Asgrow/O's Gold 5509	Low	95	3.6	20.8	143
		McCurdy 84AA	Low	93	3.4	20.3	142
		Golden Harvest H-2686A	Low	92	3.7	20.4	140
		Funk G-4733	Med	94	2.7	21.1	139
		Coker 19A	Low	95	3.9	19.4	138
		FFR 848C	Med	94	3.0	19.2	133
		Golden Harvest H-2680 ^{1/}	Low	-	-	-	-
		RA 1604 ^{1/}	Low	-	-	-	-
		White	Asgrow/O's Gold 2680W	Med	93	3.7	21.4
	Full-Season	Yellow	Pioneer brand 3165	Low	98	3.0	21.5
Pioneer brand 3147			Med-High	91	4.1	22.3	119
DeKalb-Pfizer DK-789			Med-High	95	3.4	24.0	118
McCurdy 8172			Med-Low	93	3.1	23.3	115
FFR 955C			Med-High	93	3.2	21.7	114
GK 900			Med-High	97	3.2	21.4	114
Cargill 980			Low	92	3.5	22.3	113
Paymaster 8990			Low	93	3.1	21.8	112
USS 2020			Low	93	4.0	22.6	109
DeKalb-Pfizer XL-394 ^{1/3/}			High	-	-	-	-
Funk G-4740A ^{1/}			Med	-	-	-	-
White		Zimmerman Z-11W	Med-High	88	3.2	23.8	117
		Zimmerman Z-14W	Med-High	92	3.2	22.2	115
		GK 927W	Med-Low	89	3.4	23.5	114
		Princeton SX910	Med	92	3.4	24.0	111
		RA 2606W	Low	90	3.4	23.9	110
		Golden Harvest H-2660W	Med	87	3.4	23.7	109
		FFR 929W	Med	92	3.3	23.6	108
		Asgrow RX962W ^{1/}	Low	-	-	-	-
		Zimmerman Z-52W ^{1/}	Med-High	-	-	-	-

^{1/}Present plans indicate that this hybrid will not be recommended after 1986. ^{2/}Hybrids rated lower than medium-high are not recommended under heavy virus conditions. ^{3/}Recommended only under virus conditions. ^{4/}Moved from medium-season maturity group to early-maturing. ^{5/}Evaluated in previous years as DK-747.

Table 1. Corn: Yield of medium-season hybrids evaluated at six locations in 1985.

			1/	2/	3/	4/	5/	6/	6/
Color	Cross	Hybrid	Avg.	Knox-ville	Cross-ville	Spring Hill	Spring-field	Martin	Milan
Bushels per acre									
y	2X	Beck's 85XA	174	154	203	133	171	169	211
y	2X	Zimmerman Z-27Y	167	144	179	123	167	179	211
y	2X	DeKalb-Pfizer DK 689	166	156	172	125	166	181	199
y	2X	DeKalb-Pfizer DK 748	163	143	189	105	169	162	212
y	2X	Pioneer brand 3147	163	157	165	127	182	158	191
y	2X	Stauffer 8500	162	138	176	122	170	170	197
y	2X	Pioneer brand 3320	162	147	171	129	151	176	198
y	2X	Asgrow/O's Gold 5509	161	145	170	105	178	153	216
y	2X	Golden Harvest H 2628A	161	133	168	114	174	171	205
y	2X	McCurdy 8150	161	143	169	116	165	189	184
y	2X	Pioneer brand 3184	161	139	183	116	178	154	192
y	2X	RA 1502	159	146	172	116	154	175	194
y	2X	McCurdy 84AA	159	143	167	111	168	167	199
y	2X	Asgrow/O's Gold RX892	159	142	185	106	160	160	202
y	2X	Cargill 967	159	142	181	106	174	154	197
y	3X	Funk G-4765	158	137	155	124	175	165	196
y	2X	Coker 21	158	144	166	113	171	155	202
y	2X	FFR 811C	157	135	169	107	150	167	215
y	2X	Stauffer S7759	156	132	170	109	147	176	198
y	2X	Pioneer brand 3378	155	129	171	121	155	169	189
y	2X	Coker 8625	155	136	172	111	153	184	177
y	M2X	Coker 19A	155	137	170	103	149	174	197
y	2X	N.K. PX79	155	139	180	106	160	148	196
y	2X	N.K. PX9581	154	135	174	110	152	158	197
y	2X	P.A.G. SX 352	153	139	160	98	152	173	197
y	2X	P.A.G. SX 351	153	131	172	102	160	154	201
y	M2X	Funk G-4733	152	138	167	114	166	149	180
w	3X	Asgrow/O's Gold 2680W	152	134	169	122	163	139	184
y	2X	Jacques 8100	152	138	164	112	142	158	198
y	M2X	TN 82035	151	145	153	103	160	149	198
y	M2X	Funk G-4614	150	139	179	106	150	160	168
y		N.K. PX 9540	150	124	173	106	140	174	183
y	2X	Jacques 7900	149	130	158	109	143	166	191
y	M2X	Funk G-4734	148	133	150	108	153	152	191
y	2X	Golden Harvest H-2675	146	131	159	101	143	160	184
y		N.K. PX 9527	144	129	150	108	130	163	184
y	2X	FFR 848C	144	123	163	109	131	154	182
y	2X	P.A.G. SX354	143	121	163	95	132	161	184
y	2X	USS 1218	133	121	155	80	121	155	166
w	2X	TN 840003	- 7/	- 7/	140	107	142	- 7/	191
L.S.D. (.05)			9.0	10.9	14.6	15.2	14.6	25.8	18.9
C.V. %			7.8	5.6	6.2	9.8	6.7	11.2	6.9
Avg.			155.4	137.9	168.8	111.0	156.7	163.8	193.9

1/Greeneville data not reported due to high C.V.

2/Sequatchie silt loam (2% to 5% slopes). 5/Huntington silt loam (2% to 5% slopes).

3/Hartsells loam (2% to 5% slopes). 6/Falaya silt loam (s% to 5% slopes).

4/Maury silt loam (2% to 5% slopes). 7/Not included at this location.

Table 2. Corn: Yield and other characteristics of medium-season hybrids evaluated at six locations in 1985.

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	Beck's 85XA	174	98	3.1	3.2	54	21.2
y	2X	Zimmerman Z-27Y	167	95	2.7	4.4	57	18.3
y	2X	DeKalb-Pfizer DK 689	166	97	3.1	3.2	57	20.1
y	2X	Dekalb-Pfizer DK 748	163	95	3.7	3.0	56	20.0
y	2X	Pioneer brand 3147	163	90	4.7	3.8	56	22.0
y	2X	Stauffer 8500	162	94	2.8	3.9	53	19.9
y	2X	Pioneer brand 3320	162	98	3.6	3.2	54	19.4
y	2X	Asgrow/O's Gold 5509	161	95	3.8	3.5	52	21.0
y	2X	Golden Harvest H 2686A	161	96	3.8	3.8	54	19.4
y	2X	McCurdy 8150	161	94	3.3	3.0	59	21.8
y	2X	Pioneer brand 3184	161	99	3.7	3.8	50	21.5
y	2X	RA 1502	159	95	3.4	3.7	51	19.6
y	2X	McCurdy 84AA	159	91	3.5	3.4	52	20.5
y	2X	Asgrow/O's Gold RX892	159	95	3.2	3.8	54	18.9
y	2X	Cargill 967	159	95	4.2	4.5	55	17.8
y	3X	Funk G-4765	158	94	3.8	3.5	56	21.7
y	2X	Coker 21	158	94	3.8	3.4	52	21.8
y	2X	FFR 811C	157	93	4.3	4.7	50	18.9
y	2X	Stauffer S7759	156	98	3.4	4.6	55	17.6
y	2X	Pioneer brand 3378	155	99	4.0	5.1	51	16.7
y	2X	Coker 8625	155	99	3.0	3.5	51	17.1
y	M2X	Coker 19A	155	96	4.3	3.5	52	19.0
y	2X	N.K. PX79	155	94	4.0	3.7	53	17.5
y	2X	N.K. PX9581	154	97	3.1	3.5	53	19.5
y	2X	P.A.G. SX 352	153	92	3.5	4.0	53	17.1
y	2X	P.A.G. SX 351	153	94	4.7	4.1	52	18.0
y	M2X	Funk G-4733	152	97	2.8	3.2	53	21.6
w	3X	Asgrow/O's Gold 2680W	152	94	3.1	3.0	57	22.3
y	2X	Jacques 8100	152	94	4.0	4.2	52	17.4
y	M2X	TN 82035	151	95	3.4	3.9	51	19.5
y	M2X	Funk G-4614	150	95	2.9	3.4	53	19.2
y		N.K. PX 9540	150	97	2.8	3.5	49	17.3
y	2X	Jacques 7900	149	95	3.2	4.2	55	17.1
y	M2X	Funk G-4734	148	96	3.0	3.4	54	22.4
y	2X	Golden Harvest H-2675	146	94	3.4	3.2	50	19.2
y		N.K. PX 9527	144	97	4.3	4.4	47	16.7
y	2X	FFR 848C	144	95	3.5	3.7	57	19.6
y	2X	P.A.G. SX354	143	94	3.3	3.7	48	18.7
y	2X	USS 1218	133	95	3.2	3.7	47	18.8
w	2X	TN 840003	- 2/	96	4.0	3.0	54	17.9
L.S.D. (.05)			9.0					
C.V. %			7.8					
Avg.			155.4					

^{1/} Ratings based on a scale of 1 through 9 with 1 being excellent and 9 poor.

^{2/} Not included at all locations.

Table 3. Corn: Yields of 10 extra medium-season hybrids evaluated at five locations in 1985.

Color	Cross	Hybrid	Avg.	Knox-1/ ville	Cross-2/ ville	Spring-3/ field	Martin ⁴ / Martin ⁴	Milan ⁴ / Milan ⁴
Bushels per acre								
y	2X	T.E. 6996	188	153	191	176	198	224
y	2X	McCurdy 7800	187	156	178	167	219	214
y	2X	McCurdy 81-82	185	152	188	168	189	231
y	2X	T.E. 6994	181	144	177	147	224	215
y	2X	Pioneer brand 3320	178	151	170	152	202	215
y	2X	Zimmerman Z-28	177	149	190	171	157	219
y	2X	Cargill 971	173	136	175	152	185	215
y	2X	T.E. 6995A	170	137	177	167	165	202
y	2X	FFR 815C	164	137	164	154	169	197
y	2X	Cargill 973	164	129	167	142	186	197
L.S.D. (.05)			9.2	9.7	16.1	11.3	38.6	17.7
C.V. %			8.3	4.6	6.2	4.9	14.1	5.7
Avg.			176.8	144.5	177.6	159.6	189.2	213.0

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

2/ Hartsells loam (2% to 5% slopes).

3/ Huntington silt loam (2% to 5% slopes).

4/ Falaya silt loam (2% to 5% slopes).

Table 4. Corn: Yields and other characteristics of 10 extra medium-season hybrids evaluated at five locations in 1985.

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	T.E. 6996	188	99	3.0	4.4	53	21.2
y	2X	McCurdy 7800	187	99	3.2	4.4	54	20.8
y	2X	McCurdy 81-82	185	96	3.5	4.1	55	20.1
y	2X	T.E. 6994	181	97	3.2	3.2	56	18.8
y	2X	Pioneer brand 3320	178	98	3.0	3.0	54	19.5
y	2X	Zimmerman Z-28	177	99	4.0	4.4	57	19.5
y	2X	Cargill 971	173	99	3.5	3.5	54	19.5
y	2X	T.E. 6995A	170	98	3.5	4.1	53	19.0
y	2X	FFR 815C	164	99	3.0	4.5	52	19.1
y	2X	Cargill 973	164	98	3.0	3.6	48	19.4
L.S.D. (.05)			9.2					
C.V. %			8.3					
Avg.			176.8					

^{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 (1984-85).

Color	Cross	Hybrid	Avg.	Knox- ville	Spring Hill	Spring- field	Martin	Milan
Bushels per acre								
y	2X	Pioneer brand 3147	173	172	143	184	175	189
y	2X	Zimmerman Z-27Y	170	156	140	175	186	193
y	2X	DeKalb-Pfizer DK 689	169	162	138	164	184	192
y	2X	Coker 21	165	161	131	170	165	196
y	3X	Funk G-4765	165	153	129	173	179	190
y	2X	Asgrow/O's Gold 5509	164	159	125	178	165	196
y	2X	Beck's 85XA	164	154	138	168	174	189
y	2X	Pioneer brand 3320	162	156	134	155	177	189
y	2X	RA 1502	162	158	130	163	174	184
y	2X	McCurdy 8150	160	154	122	166	183	177
y	2X	McCurdy 84AA	160	151	119	167	172	188
y	2X	Golden Harvest H-2686A	158	154	116	169	165	185
y	2X	Pioneer brand 3184	158	151	127	174	155	182
y	M2X	Funk G-4733	158	151	129	165	163	180
y	2X	N.K. PX9581	154	142	121	159	168	177
y	M2X	Funk G-4734	153	147	123	157	159	182
y	2X	Cargill 967	153	141	112	159	168	187
y	M2X	Coker 19A	152	145	115	154	165	181
y	2X	N.K. PX79	151	149	120	163	146	177
y	2X	P.A.G. SX 351	151	130	112	156	169	188
y	2X	P.A.G. SX 352	150	136	112	149	180	175
y	2X	Pioneer brand 3378	149	126	121	153	168	176
y	2X	FFR 811C	147	134	109	143	167	184
w	3X	Asgrow/O's Gold 2680W	143	137	115	155	146	163
y	2X	FFR 848C	143	138	119	143	156	160
y	2X	P.A.G. SX 354	142	127	113	141	165	164
y	2X	USS 1218	132	129	102	126	156	149

Table 6. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations for two years (1984-85).

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 3147	173	93	4.2	3.9	56	21.9
y	2X	Zimmerman Z-27Y	170	97	2.6	3.9	57	18.5
y	2X	DeKalb-Pfizer DK 689	169	98	2.7	2.7	55	20.1
y	2X	Coker 21	165	96	3.7	3.2	51	21.3
y	3X	Funk G-4765	165	96	3.6	3.1	56	21.2
y	2X	Asgrow/O's Gold 5509	164	97	3.4	2.9	51	21.1
y	2X	Beck's 85XA	164	98	3.3	3.1	53	21.1
y	2X	Pioneer brand 3320	162	98	2.6	2.9	52	19.6
y	2X	RA 1502	162	97	3.1	3.7	51	19.6
y	2X	McCurdy 8150	160	94	3.2	2.9	58	21.1
y	2X	McCurdy 84AA	160	94	3.6	3.5	52	20.6
y	2X	Golden Harvest H-2686A	158	94	3.7	4.1	53	20.4
y	2X	Pioneer brand 3184	158	99	3.6	4.7	49	21.3
y	M2X	Funk G-4733	158	98	2.4	3.0	52	21.3
y	2X	N.K. PX9581	154	97	3.3	3.4	57	19.7
y	M2X	Funk G-4734	153	96	2.6	3.2	53	22.0
y	2X	Cargill 967	153	94	4.8	4.4	54	18.2
y	M2X	Coker 19A	152	97	3.9	3.3	52	19.8
y	2X	N.K. PX79	151	96	4.4	3.9	51	17.7
y	2X	P.A.G. SX 351	151	94	5.2	4.6	52	18.1
y	2X	P.A.G. SX 352	150	95	3.5	4.2	53	18.0
y	2X	Pioneer brand 3378	149	99	4.1	4.9	52	17.3
y	2X	FFR 811C	147	94	4.4	4.8	50	19.8
w	3X	Asgrow/O's Gold 2680W	143	93	4.0	3.2	58	21.1
y	2X	FFR 848C	143	94	2.8	3.4	55	19.7
y	2X	P.A.G. SX 354	142	97	3.0	3.8	48	19.0
y	2X	USS 1218	132	97	3.8	3.7	46	18.6

^{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 (1983-85).

Color	Cross	Hybrid	Avg.	Knox- ville	Spring Hill	Spring- field	Martin	Milan
Bushels per acre								
y	2X	Pioneer brand 3147	153	164	123	172	138	169
y	2X	Pioneer brand 3320	148	153	120	152	142	173
y	2X	Beck's 85XA	148	155	121	163	138	162
y	2X	McCurdy 8150	146	148	110	160	148	164
y	2X	Coker 21	145	153	109	161	138	166
y	2X	RA 1502	144	151	113	155	143	156
y	2X	Pioneer brand 3184	143	149	115	164	131	157
y	2X	Asgrow/O's Gold 5509	143	152	105	163	132	163
y	2X	McCurdy 84AA	142	146	107	155	137	162
y	2X	Golden Harvest H-2686A	140	149	100	160	129	160
y	M2X	Funk G-4733	139	144	108	156	132	155
y	M2X	Coker 19A	138	144	106	148	132	160
y	M2X	Funk G-4734	136	142	106	148	126	157
y	2X	P.A.G. SX 351	134	129	98	146	138	158
y	2X	FFR 848C	133	135	112	140	129	148
y	2X	FFR 811C	132	134	101	140	136	152
y	2X	N.K. PX79	131	142	100	152	120	140
w	3X	Asgrow/O's Gold 2680W	130	138	101	153	112	143
y	2X	P.A.G. SX 354	127	128	100	137	136	137

Table 8. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations for three years (1983-85).

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 3147	153	93	4.2	4.0	56	21.1
y	2X	Pioneer brand 3320	148	93	2.5	3.2	52	19.1
y	2X	Beck's 85XA	148	97	3.2	3.0	52	20.6
y	2X	McCurdy 8150	146	93	3.2	3.0	58	20.7
y	2X	Coker 21	145	93	3.8	3.2	51	21.1
y	2X	RA 1502	144	97	3.2	4.0	51	19.3
y	2X	Pioneer brand 3184	143	99	3.5	4.8	49	20.5
y	2X	Asgrow/O's Gold 5509	143	95	3.6	3.1	50	20.8
y	2X	McCurdy 84AA	142	93	3.4	3.6	51	20.3
y	2X	Golden Harvest H-2686A	140	92	3.7	4.3	52	20.4
y	M2X	Funk G-4733	139	94	2.7	3.0	52	21.1
y	M2X	Coker 19A	138	95	3.9	3.4	52	19.4
y	M2X	Funk G-4734	136	96	2.6	3.4	53	21.7
y	2X	P.A.G. SX 351	134	94	5.0	4.7	51	17.8
y	2X	FFR 848C	133	94	3.0	3.4	56	19.2
y	2X	FFR 811C	132	95	4.2	4.8	47	18.6
y	2X	N.K. PX79	131	96	4.7	4.0	51	17.3
w	3X	Asgrow/O's Gold 2680W	130	93	3.7	3.2	58	21.4
y	2X	P.A.G. SX 354	127	96	3.1	4.0	47	18.6

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 9. Corn: Yield and other characteristics of medium season corn hybrids evaluated at Crossville for three years (1983-85).

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	Beck's 85XA	166	92	2.8	2.7	58	29.5
y	2X	P.A.G. SX 351	154	98	4.5	4.8	60	25.8
y	2X	Pioneer brand 3184	150	99	4.0	4.2	54	29.7
y	2X	McCurdy 8150	148	89	3.2	2.8	64	28.8
y	2X	N.K. PX79	146	95	3.8	4.0	56	25.9
y	2X	RA 1502	145	95	3.8	3.7	56	27.9
y	2X	Asgrow/O's Gold 5509	145	92	3.8	4.3	56	31.4
y	2X	P.A.G. SX 354	144	89	2.8	3.5	54	25.4
y	2X	Golden Harvest H-2686A	144	85	3.3	3.5	59	30.3
y	2X	Pioneer brand 3320	144	92	2.5	3.2	57	27.5
y	M2X	Coker 19A	144	92	3.5	3.2	58	27.9
y	2X	McCurdy 84AP	144	83	3.8	3.2	58	28.3
y	M2X	Funk G-4733	143	95	3.2	2.8	59	29.2
y	2X	Coker 21	141	96	4.0	3.2	58	32.2
y	2X	Pioneer brand 3147	139	86	5.0	3.7	61	32.4
y	2X	FFR 811C	138	88	3.7	4.7	53	25.4
y	2X	FFR 848C	138	91	3.2	3.2	64	28.1
w	3X	Asgrow/O's Gold 2680W	136	93	4.0	3.3	65	30.9
y	M2X	Funk G-4734	130	94	4.0	3.3	69	31.8

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 10. Corn: Yield of full-season hybrids evaluated at four locations in 1985.

Color	Cross	Hybrid	Avg.	Knox-1/ ville	Spring2/ Hill	Jackson3/ Plantation	Ames4/ Plantation
				Bushels per acre			
y	2X	Pioneer brand 3165	150	161	148	130	159
y	M3X	Funk G-Exp 9002X	139	149	136	119	150
y	2X	Pioneer brand 3147	137	151	124	119	156
w	2X	Zimmerman Z-11W	135	154	128	107	152
y	M3X	Funk G-4858	135	147	126	116	150
w	2X	Zimmerman Z-14W	133	153	120	122	137
y	2X	Jacques 8400	133	152	118	119	142
w	M2X	TN 840023	132	147	122	117	140
y	M2X	FFR 955C	131	144	129	107	146
y	2X	DeKalb-Pfizer DK-789	131	149	127	110	139
y	2X	GK 900	131	153	124	117	128
w	2X	Princeton SX910	130	149	116	104	151
y	2X	Cargill 980	129	150	117	122	126
y	2X	Agri Gold XA929	128	148	118	107	140
w	3X	GK 927W	128	146	105	110	152
w	2X	Zimmerman Z-60W	128	148	121	102	141
y	2X	Golden Harvest H-2775A	127	149	115	116	128
w	3X	FFR 929W	126	143	112	110	140
y	2X	McCurdy 8172	126	142	112	117	133
y	2X	Paymaster 8990	126	152	110	111	131
w	3X	DeKalb-Pfizer DK-77W	126	145	118	111	129
y	2X	P.A.G. SX383	125	145	121	112	125
y	3X	Golden Harvest 2695A	125	135	107	121	138
w	M2X	TN 82-2051	125	142	120	105	133
y	2X	T.E. 6998	124	153	108	103	134
w	M2X	TN 845007	124	148	106	106	138
y	2X	GK 850	123	148	106	106	132
y	2X	Stauffer S 8818	123	146	107	112	126
y	2X	Beck's 85MDM	123	130	118	109	135
y	2X	Jacques 8700	122	135	107	121	126
y	2X	USS 2020	122	138	116	107	126
y	2X	FFR 901C (31026)	121	137	112	108	127
y	2X	N.K. PX 9692	121	139	105	116	125
y	2X	Agri Gold XA930	119	134	110	100	134
w	2X	Golden Harvest H-2660W	118	136	108	98	130
w	M3X	Funk G-4779W	118	133	104	106	129
w	2X	FFR 917W	117	140	98	104	128
y	2X	Jacques 247	117	143	90	109	127
y	3X	Golden Harvest XC 918	113	130	110	94	121
w	M2X	RA 2606W	112	141	82	104	121
w	2X	Agri Gold XA944W	111	144	85	95	120
y	2X	USS 9001	108	120	93	104	113
L.S.D. (.05)			8.1	11.7	20.5	18.9	12.4
C.V. %			9.3	5.8	12.9	12.3	6.6
Avg.			125.5	144.0	113.2	110.2	134.7

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 11. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations in 1985.

Color	Cross	Hybrid	Avg. yield Bu/A	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Grain moisture at	
							Ear ht. In.	harvest %
y	2X	Pioneer brand 3165	150	98	2.6	3.9	49	22.3
y	M3X	Funk G-Exp 9002X	139	96	2.7	3.5	52	25.8
y	2X	Pioneer brand 3147	137	93	3.5	3.5	50	23.2
w	2X	Zimmerman Z-11W	135	90	2.4	2.8	51	23.6
y	M3X	Funk G-4858	135	97	3.2	4.0	47	22.9
w	2X	Zimmerman Z-14W	133	96	2.8	2.4	49	23.5
y	2X	Jacques 8400	133	94	2.8	4.6	56	22.1
w	M2X	TN 840023	132	91	3.5	3.0	52	20.8
y	M2X	FFR 955C	131	92	2.7	3.6	49	21.9
y	2X	DeKalb-Pfizer DK-789	131	94	3.0	4.2	49	24.8
y	2X	GK 900	131	98	2.6	4.5	44	21.8
w	2X	Princeton SX910	130	93	2.7	2.6	50	23.7
y	2X	Cargill 980	129	96	2.7	3.9	48	23.4
y	2X	Agri Gold XA929	128	100	2.6	3.0	45	20.6
w	3X	GK 927W	128	91	3.4	3.1	52	23.0
w	2X	Zimmerman Z-60W	128	97	3.0	2.6	52	23.3
y	2X	Golden Harvest H-2775A	127	88	2.9	3.8	48	23.1
w	3X	FFR 929W	126	90	2.6	3.2	50	23.6
y	2X	McCurdy 8172	126	95	2.7	3.6	47	22.8
y	2X	Paymaster 8990	126	96	2.7	3.8	47	22.9
w	3X	DeKalb-Pfizer DK-77W	126	94	3.5	2.5	52	24.2
y	2X	P.A.G. SX383	125	94	2.8	3.2	47	22.6
y	3X	Golden Harvest 2695A	125	95	3.5	4.2	48	22.0
w	M2X	TN 82-2051	125	94	2.8	2.6	49	23.0
y	2X	T.E. 6998	124	90	3.3	3.9	47	23.0
w	M2X	TN 845007	124	95	2.8	3.0	48	24.7
y	2X	GK 850	123	97	3.4	3.9	46	21.5
y	2X	Stauffer S 8818	123	90	3.4	3.0	46	22.4
y	2X	Beck's 85MDM	123	95	3.3	4.1	50	22.1
y	2X	Jacques 8700	122	95	3.7	3.5	46	22.5
y	2X	USS 2020	122	96.3	2.8	2.4	49	23.5
y	2X	FFR 901C (31026)	121	97	3.2	2.8	45	22.4
y	2X	N.K. PX 9692	121	98	3.2	3.1	48	24.5
y	2X	Agri Gold XA930	119	98	2.9	4.9	46	20.6
w	2X	Golden Harvest H-2660W	118	91	3.2	2.9	47	22.4
w	M3X	Funk G-4779W	118	96	3.2	3.5	50	23.7
w	2X	FFR 917W	117	94	3.0	3.5	45	23.2
y	2X	Jacques 247	117	95	3.6	3.9	46	23.7
y	3X	Golden Harvest XC 918	113	91	2.6	3.0	50	22.9
w	M2X	RA 2606W	112	87	3.2	3.6	45	23.4
w	2X	Agri Gold XA944W	111	94	3.2	4.0	47	23.1
y	2X	USS 9001	108	96	3.4	4.0	43	21.9
L.S.D. (.05)			8.1					
C.V. %			9.3					
Avg.			125.5					

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 12. Corn: Yield of full-season hybrids evaluated at four locations for two years (1984-85).

Color	Cross	Hybrid	2 Yr Avg.	Knox- ville	Spring Hill	Jackson	Ames Plantation
Bushels per acre							
y	2X	Pioneer brand 3165	147	179	149	120	144
w	2X	Zimmerman Z-11W	134	174	133	102	129
y	2X	DeKalb-Pfizer DK-789	133	166	138	108	124
y	2X	Pioneer brand 3147	133	159	133	110	135
y	M3X	Funk G-4858	132	162	130	113	127
w	3X	GK 927W	132	165	128	108	128
y	2X	GK 900	128	158	129	110	118
w	2X	Zimmerman Z-14W	128	167	127	103	117
y	M2X	FFR 955C	127	161	128	101	113
y	2X	McCurdy 8172	127	156	121	115	117
w	2X	Princeton SX910	127	165	127	97	121
w	2X	Golden Harvest H-2660W	126	163	124	102	120
w	3X	DeKalb-Pfizer DK77W	126	163	124	105	117
y	2X	N.K. PX9692	126	162	122	109	111
y	2X	Cargill 980	126	161	125	102	118
w	3X	FFR 929W	126	161	120	100	123
y	2X	USS 2020	125	161	128	102	112
y	2X	FFR 901C (Exp 31026)	124	153	122	110	113
y	2X	Golden Harvest H-2775A	124	155	121	103	119
w	M2X	T82-2051	124	159	130	95	114
w	M2X	RA 2606W	124	162	116	98	124
y	2X	Paymaster 8990	123	161	120	103	112
y	2X	P.A.G. SX 383	121	149	119	103	116
y	2X	GK 850	121	151	119	98	118
w	M3X	Funk G-4779W	119	151	119	99	110
y	2X	USS 9001	107	129	104	97	100

Table 13. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for two years (1984-85).

Color	Cross	Hybrid	2 Yr.	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			Avg. yield					moisture at harvest
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3165	147	98	2.8	3.9	50	22.1
w	2X	Zimmerman Z-11W	134	90	4.6	2.6	52	23.8
y	2X	DeKalb-Pfizer DK-789	133	96	3.2	4.2	48	25.1
y	2X	Pioneer brand 3147	133	93	3.7	3.6	48	23.5
y	M3X	Funk G-4858	132	96	3.1	3.5	47	23.3
w	3X	GK 927W	132	91	3.2	3.9	52	23.3
y	2X	GK 900	128	98	2.8	4.5	46	22.4
w	2X	Zimmerman Z-14W	128	96	2.8	2.2	47	22.9
y	M2X	FFR 955C	127	92	2.8	3.4	49	22.1
y	2X	McCurdy 8172	127	95	2.8	3.5	49	23.3
w	2X	Princeton SX910	127	92	2.9	2.6	50	24.1
w	2X	Golden Harvest H-2660W	126	89	3.1	2.6	49	23.5
w	3X	DeKalb-Pfizer DK77W	126	93	3.4	2.4	53	24.4
y	2X	N.K. PX9692	126	97	3.2	3.1	49	24.6
y	2X	Cargill 980	126	96	2.9	3.6	47	23.3
w	3X	FFR 929W	126	91	2.8	3.2	51	23.5
y	2X	USS 2020	125	96	3.6	3.5	45	22.7
y	2X	FFR 901C (Exp 31026)	124	97	3.4	2.7	43	22.5
y	2X	Golden Harvest H-2775A	124	89	3.1	3.9	46	22.4
w	M2X	T82-2051	124	95	2.8	2.2	51	23.4
w	M2X	RA 2606W	124	89	3.0	3.2	49	23.7
y	2X	Paymaster 8990	123	96	2.6	3.6	47	22.6
y	2X	P.A.G. SX 383	121	95	2.9	3.5	46	22.7
y	2X	GK 850	121	97	3.7	3.8	46	21.3
w	M3X	Funk G-4779W	119	96	3.2	3.2	52	23.4
y	2X	USS 9001	107	97	3.5	3.6	41	22.2

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 14. Corn: Yield of full-season hybrids evaluated at four locations for three years (1983-85).

Color	Cross	Hybrid	3 Yr Avg.	Knox- ville	Spring Hill	Jackson ^{1/}	Ames
							Plantation
Bushels per acre							
y	2X	Pioneer brand 3165	130	169	132	90	127
y	2X	Pioneer brand 3147	119	156	116	87	122
y	2X	DeKalb-Pfizer DK-789	118	164	119	83	113
w	2X	Zimmerman Z-11W	117	167	113	81	113
y	2X	McCurdy 8172	115	152	107	96	108
w	2X	Zimmerman Z-14W	115	161	113	87	102
y	M2X	FFR 955C	114	155	114	84	110
w	3X	GK 927W	114	163	107	81	111
y	2X	GK 900	114	151	108	92	109
y	2X	Cargill 980	113	155	109	84	108
y	2X	Paymaster 8990	112	154	106	90	103
w	2X	Princeton SX910	111	156	111	77	106
w	M2X	T82-2051	110	153	113	76	102
w	M2X	RA 2606W	110	153	102	79	111
y	2X	USS 2020	109	152	102	84	101
w	2X	Golden Harvest H-2660W	109	153	106	79	101
w	3X	FFR 929W	108	153	102	77	107
y	2X	Golden Harvest H-2775A	108	148	100	82	105

^{1/} Jackson location contained five replications and other locations contained four.

Table 15. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for three years (1983-85).

Color	Cross	Hybrid	3 Yr.	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			Avg. yield					moisture at harvest
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3165	130	98	3.0	3.8	52	21.5
y	2X	Pioneer brand 3147	119	91	4.1	3.5	52	22.3
y	2X	DeKalb-Pfizer DK-789	118	95	3.4	3.9	52	24.0
w	2X	Zimmerman Z-11W	117	88	3.2	2.6	56	23.8
y	2X	McCurdy 8172	115	93	3.1	3.4	52	23.3
w	2X	Zimmerman Z-14W	115	92	3.2	2.4	50	22.2
y	M2X	FFR 955C	114	93	3.2	3.3	52	21.7
w	3X	GK 927W	114	89	3.4	2.9	56	23.5
y	2X	GK 900	114	97	3.2	4.2	50	21.4
y	2X	Cargill 980	113	92	3.5	3.4	50	22.3
y	2X	Paymaster 8990	112	93	3.1	3.5	50	21.8
w	2X	Princeton SX910	111	92	3.4	2.7	54	24.0
w	M2X	T82-2051	110	96	3.1	2.3	55	23.3
w	M2X	RA 2606W	110	90	3.4	3.2	52	23.9
y	2X	USS 2020	109	93	4.0	3.6	48	22.6
w	2X	Golden Harvest H-2660W	109	87	3.4	2.7	52	23.7
w	3X	FFR 929W	108	92	3.3	3.2	55	23.6
y	2X	Golden Harvest H-2775A	108	88	3.4	3.8	49	21.8

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 16. Corn: Yield of 26 early-maturing hybrids evaluated at five locations in 1985.

Color	Cross	Hybrid	Avg.	Knox-1/ ville	Cross-2/ ville	Milan ³ / ville	Martin ³ / ville	Ames ⁴ / Plan- tation
				Bushels per acre				
y	2X	Pioneer brand 3389	165	146	177	190	168	142
y	2X	McCurdy 7676	164	160	171	190	162	137
y	2X	Asgrow/O's Gold 2570	162	164	167	191	145	143
y	2X	USS 7001	160	155	166	191	155	135
y	2X	Agri Pro HP 555	160	174	163	194	134	136
y	2X	DeKalb-Pfizer DK 672	160	169	165	191	134	141
y	2X	Pioneer brand 3358	160	145	179	186	141	149
y	2X	Pioneer brand 3378	158	149	165	179	159	135
y	2X	FFR 788C	157	158	178	198	121	132
y	2X	Beck's 65X	156	147	169	189	145	128
y	2X	FFR 747C (31000)	155	161	161	181	139	131
y	2X	N.K. PX79	154	144	176	187	140	124
y	2X	DeKalb-Pfizer DK 636	154	149	159	185	139	137
y	2X	Super Crost 5438	154	140	162	189	138	140
y	2X	DeKalb-Pfizer DK 656	150	149	161	197	127	119
y	2X	McCurdy 7372	150	137	157	199	126	130
y	M2X	Funk G-4522	149	149	168	161	149	119
y	2X	Asgrow/O's Gold 3344	148	142	144	181	145	126
y	M2X	Funk Exp 5013A	147	151	156	193	118	116
y	2X	RA 1404	144	140	160	167	142	110
y	2X	Super Crost 4304	143	139	150	179	135	113
y	M2X	FFR 767C (30732)	143	145	150	167	133	121
y	3X	FFR 799C	142	141	164	185	90	130
y	2X	Coker 8575	140	157	150	171	112	112
y	2X	T.E. 6930	140	135	139	170	149	109
y	M2X	FFR 717C	120	133	129	146	97	96
L.S.D. (.05)			10.0	13.2	15.4	17.8	39.8	13.2
C.V. %			10.6	6.2	6.8	6.9	20.7	7.4
Avg.			151.4	149.2	161.0	183.0	136.3	127.2

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

2/ Hartsells loam (2% to 5% slopes).

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

4/ Loring silt loam (2% to 5% slopes).

Table 17. Corn: Yield and other characteristics of 26 early-maturing hybrids evaluated at five locations in 1985.

Color	Cross	Hybrid	Avg.	Erect	Grain	Husk	Ear	Grain
			yield	plants	quality	cover	ht.	moisture
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	at
								harvest
								%
y	2X	Pioneer brand 3389	165	100	2.6	5.2	55	21.1
y	2X	McCurdy 7676	164	99	2.6	2.8	55	21.7
y	2X	Asgrow/O's Gold 2570	162	97	3.1	3.1	56	22.6
y	2X	USS 7001	160	98	3.2	4.0	50	21.6
y	2X	Agri Pro HP 555	160	98	2.6	2.3	56	22.6
y	2X	DeKalb-Pfizer DK 672	160	100	2.6	2.5	54	22.0
y	2X	Pioneer brand 3358	160	100	2.6	5.4	54	21.6
y	2X	Pioneer brand 3378	158	100	3.0	5.5	55	20.4
y	2X	FFR 788C	157	99	3.1	4.3	55	21.7
y	2X	Beck's 65X	156	99	3.0	4.4	52	21.2
y	2X	FFR 747C (31000)	155	99	2.5	2.6	51	21.2
y	2X	N.K. PX79	154	99	3.0	4.0	54	21.9
y	2X	DeKalb-Pfizer DK 636	154	98	2.4	2.6	49	20.8
y	2X	Super Crost 5438	154	99	3.4	4.6	54	21.2
y	2X	DeKalb-Pfizer DK 656	150	100	2.8	4.0	54	21.9
y	2X	McCurdy 7372	150	99	2.6	2.7	49	21.9
y	M2X	Funk G-4522	149	99	3.0	3.4	49	22.2
y	2X	Asgrow/O's Gold 3344	148	97	2.9	3.2	52	21.2
y	M2X	Funk Exp 5013A	147	98	2.8	3.9	50	21.8
y	2X	RA 1404	144	100	3.0	4.5	46	21.0
y	2X	Super Crost 4304	143	98	3.4	4.8	44	21.2
y	M2X	FFR 767C (30732)	143	96	3.4	4.5	54	20.1
y	3X	FFR 799C	142	97	3.2	4.4	52	22.1
y	2X	Coker 8575	140	99	3.2	4.7	46	21.2
y	2X	T.E. 6930	140	98	3.6	4.6	48	21.7
y	M2X	FFR 717C	120	94	3.0	4.4	52	20.9
L.S.D. (.05)			10.0					
C.V. %			10.6					
Avg.			151.4					

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 18. Corn: Yield of early maturing corn hybrids evaluated at five locations for two years (1984-85).

Color	Cross	Hybrid	2 yr Avg.	Knox- ville	Ames	Milan	Martin	Cross- ville
					Plan- tation			
Bushels per acre								
y	2X	Pioneer brand 3389	158	145	127	178	162	178
y	2X	McCurdy 7676	156	165	121	172	152	171
y	2X	Asgrow/O's Gold 2570	156	165	124	180	136	175
y	2X	FFR 788C	153	153	116	184	137	176
y	2X	Pioneer brand 3358	150	139	128	171	135	174
y	2X	USS 7001	149	150	121	162	142	170
y	2X	FFR 747C (31000)	148	157	119	171	130	164
y	M2X	Funk G-4522	148	147	109	169	150	165
y	2X	Super Crost 5438	146	140	124	167	132	168
y	2X	McCurdy 7372	145	144	120	175	122	165
y	2X	DeKalb-Pfizer DK656	144	151	111	174	114	168
y	2X	Asgrow/O's Gold 3344	143	143	110	167	140	154
y	3X	FFR 799C	138	138	119	167	101	163
y	M2X	FFR 717C	124	137	91	151	109	134
y	2X	Beck's 65X	116	143	114	166	137	173

Table 19. Corn: Yield and other characteristics of early-maturing hybrids evaluated at five locations for two years (1984-85).

Color	Cross	Hybrid	2 Yr.	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			Avg. yield					moisture
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	at harvest
y	2X	Pioneer brand 3389	158	100	2.7	5.2	52	21.3
y	2X	McCurdy 7676	156	98	2.7	2.9	55	22.4
y	2X	Asgrow/O's Gold 2570	156	97	3.1	3.2	55	23.0
y	2X	FFR 788C	153	99	3.3	3.9	51	22.1
y	2X	Pioneer brand 3358	150	100	2.9	5.4	51	22.5
y	2X	USS 7001	149	98	3.3	4.1	49	21.9
y	2X	FFR 747C (31000)	148	100	2.5	2.9	50	21.4
y	M2X	Funk G-4522	148	99	3.1	3.4	49	22.4
y	2X	Super Crost 5438	146	100	3.5	4.6	52	22.0
y	2X	McCurdy 7372	145	97	2.5	3.4	48	22.0
y	2X	DeKalb-Pfizer DK656	144	99	2.8	4.0	53	22.4
y	2X	Asgrow/O's Gold 3344	143	96	3.0	3.4	49	21.6
y	3X	FFR 799C	138	97	3.2	4.6	49	22.6
y	M2X	FFR 717C	124	94	3.1	4.2	48	20.9
y	2X	Beck's 65X	116	98	3.2	4.4	54	21.6

Table 20. Corn: Yield and other characteristics of 36 extra hybrids evaluated at Knoxville in 1985.

Color	Cross	Hybrid	Yield Bu/A	Grain quality Rating ^{2/}	Husk cover Rating ^{2/}	Ear ht. In.	Grain moisture at harvest %
y	2X	Beck's 90XS	160	3.0	4.5	42	19.8
y	M3X	Funk G. Exp 9002X	160	2.5	3.0	54	24.2
y	2X	McCurdy 83-40	159	3.0	2.0	46	17.7
y	2X	Zimmerman Z-34	157	2.5	2.5	47	19.5
w	3X	FFR 901	156	2.5	2.0	48	20.9
y	2X	Agri Pro HP771	155	3.5	4.5	48	21.4
y	2X	FFR Exp 31288	154	2.5	2.5	44	18.2
y		Agri Gold XA 929	154	3.5	3.0	48	18.3
w		Agri Gold A 6795W	151	2.5	4.0	52	21.4
y	2X	Princeton SX 870A	151	2.5	2.0	49	20.8
y	2X	N.K. PX5914	150	3.0	4.0	45	20.0
y	2X	Princeton SX 906	150	2.5	2.5	48	25.0
y	2X	McCurdy 7711	148	3.0	2.5	46	20.0
w	3X	FFR Exp 1413W	148	3.0	2.5	61	22.5
y	2X	FFR Exp 16076	148	2.0	3.0	48	17.6
y	2X	FFR Exp 16147	147	2.5	2.0	47	19.1
y	2X	GK 850	146	3.0	3.0	48	20.2
y		Agri Gold XA 930	144	3.0	3.0	50	16.7
y	2X	GK Exp 5923	142	3.0	4.5	54	18.6
w	3X	FFR Exp 1414W	142	3.0	2.5	55	22.8
y		Agri Gold A 6615	141	3.0	3.0	42	16.2
y	2X	Agri Pro AP 655	140	2.5	2.0	43	19.2
y	2X	N.K. PX 95	140	3.0	3.0	58	22.4
y	2X	FFR Exp 31010	140	2.5	3.0	44	20.8
y	2X	Princeton SP 933	139	4.5	3.0	57	21.0
w		Agri Gold XA 944W	138	3.0	3.5	52	22.0
y	2X	McCurdy 84-43	137	4.5	4.5	46	16.7
y	2X	Super Crost 5460	137	2.5	3.5	42	15.7
y	2X	Princeton SX 860	136	2.0	2.5	40	19.6
w	M2X	FFR 925W (1416W)	135	2.5	3.0	52	24.5
y	2X	Jacques 227	133	4.0	3.5	50	20.2
y	M2X	Coker XP 5095	130	3.5	4.0	48	19.9
y	2X	P.A.G. SX16A	130	4.5	4.5	48	16.0
y	M2X	Super Crost 7795	129	3.5	3.5	48	19.6
y	2X	McCurdy 84-56	122	3.0	4.0	47	19.4
y	2X	DeKalb-Pfizer XL-72B	120	4.0	4.0	45	18.8
L.S.D. (.05)			12.8				
C.V. %			6.3				
Avg.			143.6				

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.

Table 21. Corn: Yield and other characteristics of 36 corn hybrids grown under heavy johnsongrass and corn virus (MDMV-A and MCDV) conditions at Knoxville in 1985.^{1/4/}

Hybrid	Yield Bu/A	Virus Severity Rating ^{2/}	Virus		Grain Moisture %	Grain Quality Rating ^{3/}
			Diseased Plants %	Lodged Plants %		
DeKalb-Pfizer DK-689	120	3.2	74	9	20.2	3.0
FFR 848C	113	3.6	78	12	18.9	3.0
FFR 815C	113	3.7	77	9	20.0	3.5
FFR 955C	110	4.2	85	34	20.5	2.5
Agrigold XA930	106	4.1	86	8	18.9	3.0
Zimmerman Z-14W	102	4.8	90	14	21.9	4.0
Zimmerman Z-60W	102	4.3	86	10	20.6	4.5
Funk G-4858	101	4.1	83	13	23.0	4.0
Beck's 85MDM	101	3.9	78	3	20.0	4.5
DeKalb-Pfizer DK-789	94	4.0	79	5	23.2	4.0
Pioneer brand 3147	93	3.5	83	11	22.5	4.5
Zimmerman Z-11W	92	4.4	87	17	21.2	4.0
Super Crost 7795	91	4.2	82	7	19.7	3.5
FFR 767C	89	4.7	91	14	17.4	5.0
P.A.G. SX16A	88	4.5	89	6	17.3	5.0
Funk G-4734	87	4.5	90	9	20.5	4.5
Funk Exp 9002X	87	4.4	88	8	24.8	5.0
FFR Exp 1414	83	4.9	89	22	21.1	5.0
Funk G-4765	83	5.0	95	10	20.0	4.5
Coker XP5095	83	4.1	79	6	20.0	4.5
DeKalb-Pfizer XL72B	82	3.7	78	6	21.3	5.0
Zimmerman Z-34	82	4.9	93	13	18.1	3.0
FFR 717C	81	3.9	86	15	17.1	5.0
FFR 929W	80	4.6	89	29	21.8	5.0
Funk G-4779W	79	4.7	92	20	19.7	4.5
N.K. X5914	75	5.2	95	23	19.3	4.5
Jacques 8400	74	5.4	88	24	19.7	3.5
FFR Exp 1413	72	4.9	89	13	20.6	5.5
DeKalb-Pfizer DK 77W	69	5.7	97	16	22.3	5.0
FFR 917W	65	5.1	93	19	21.2	4.0
Jacques JX227	64	5.0	93	13	18.4	6.0
FFR Exp 1115	52	6.3	97	26	18.6	5.5
Pioneer brand 3369A	49	6.0	94	14	19.2	4.0
GK Exp 5923	46	6.4	98	17	17.9	4.5
RA 2606W	43	6.2	97	21	21.4	4.0
FFR Exp 1416W	34	6.7	100	20	20.4	5.0
Mean	82.8	4.7	87.9	14.5	20.2	4.3
L.S.D. (.05)	20.8	0.8	11.0	15	1.6	1.8
C.V. %	17.8	11.6	8.9	52	3.9	21.1

1/ This test was grown in an area heavily infested with johnsongrass to insure virus disease pressure. Both virus susceptibility and ability to compete with johnsongrass are important determinants of yield. Virus ratings were made approximately 3 to 4 weeks after flowering.

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

3/ Quality scale = 1 to 9; where 1 = excellent quality and 9 = poor quality.

4/ Data obtained in cooperation with David Kincer and D. R. West.