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University of Tennessee Agricultural Experiment Station

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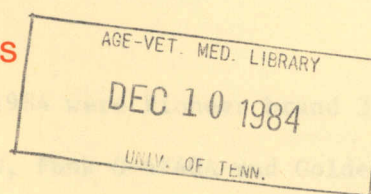
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November 1984

Research Report 84-11

Performance of Corn Hybrids in 1984

Charles R. Graves



Plant and Soil Science Department



PERFORMANCE OF CORN HYBRIDS IN 1984^{1/}

Charles R. Graves^{2/}

The 1984 medium-season state corn hybrid tests were conducted at seven locations, and full-season at four and early-maturing at five locations. No data are reported for the medium-season test at Greeneville due to several plots being lost to severe erosion in the seedling stage. The growing season was dry when the corn was in the early growth stages but the rest of the growing season was excellent at most locations in 1984. This favorable growing season resulted in some of the highest yields ever obtained in the variety trials.

The virus data from Waverly will be reported in another publication. In 1984 good yields were obtained at this location because very little virus was observed. Corn yields are expressed in bushels per acre, adjusted to 15.5% moisture. The percent moisture at harvest is presented in each table to show the relative maturity of the hybrids.

The top five leading hybrids in 1984 in the medium-season test were Pioneer brand 3147, a full-season hybrid, Zimmerman Z-27Y, DeKalb-Pfizer DK-747, DeKalb-Pfizer Exp-369, and Coker 21. Pioneer brand 3147 was included as a check hybrid in the medium and full-season test.

The leading hybrids in the full-season test for 1984 were Pioneer brand 3165, RA 2606W, GK 927W, DeKalb-Pfizer DK-789, Asgrow RX962W, Funk G-4740A and Golden Harvest H-2660W.

The highest producing early-maturing hybrids in 1984 were McCurdy 81-82, McCurdy 7800, Pioneer brand 3389, FFR 788C, Funk G-4522, McCurdy 7676, and O's Gold 2570.

Thirty-four hybrids, mostly experimentals, were evaluated at Knoxville only and the leading hybrids in this test were Pioneer brand 3147, FFR Exp. 1416W, Beck's 85MDM, FFR Exp. 1415, FFR Exp. 18509, N.K. Knx 6614 and T82-5007.

The data from Crossville were reported separately because previous studies have shown that hybrid performance on the Cumberland Plateau differs from that on the other test sites in Tennessee.

^{1/} These results will be included in the 1984 Bulletin, "Performance of Field Crop Varieties," which will be available in 1985.

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

The Recommended Corn Hybrids for 1985 are as Follows:

3 Year Average (1982-84)

Maturity Group	Grain Color	Hybrid	Tolerance ^{2/} to		Erect Plants %	Quality Rating (1-9)	Moisture at Harvest %	Yield Bu/A
			Corn Virus Complex					
Early-Season	Yellow	Pioneer brand 3389	Low	100	3.1	21.8	133	
		O's Gold 2570	Low	91	3.5	24.8	132	
		Pioneer brand 3358	Low	100	3.7	23.9	126	
		O's Gold 3344	Med-Low	94	4.2	22.2	118	
		Funk G-4522	Low	92	3.3	23.2	116	
		FFR 788C	Low	96	4.5	23.5	115	
		FFR 799C	Low	93	4.5	23.4	114	
		Coker 19	Low	94	4.4	22.0	114	
		O's Gold 6882 ^{1/}	Low	96	4.9	21.5	110	
		FFR 717C ^{3/}	Med-High	95	3.7	20.7	110	
	P.A.G. SX333 ^{5/}	Low	-	-	-	-		
Medium-Season	Yellow	DeKalb-Pfizer DK-747	Low	99	3.7	22.1	143	
		Pioneer brand 3320	Low	98	2.5	20.8	141	
		Pioneer brand 3184	Med-Low	100	3.4	22.5	140	
		Coker 21	Low	95	3.8	23.3	139	
		O's Gold 5509	Low	96	3.7	23.1	136	
		McCurdy 8150	Low	94	3.3	22.5	136	
		Funk G-4733	Med	98	2.8	22.8	134	
		RA 1604	Low	94	3.9	22.6	133	
		FFR 848C	Low	95	2.9	20.6	132	
		RA 1502 ^{1/}	Low	97	3.5	20.9	132	
		Golden Harvest H-2680	Low	95	3.9	23.1	132	
		N.K. PX79 ^{1/}	Med-Low	98	4.7	19.3	129	
		Pioneer brand 3369A ^{1/}	Low	95	3.5	19.4	128	
		DeKalb XL72B ^{1/3/}	High	-	-	-	-	
		DeKalb XL72BB ^{174/}	Med-High	-	-	-	-	
		Zimmerman Z-24Y ^{1/4/}	Low	-	-	-	-	
		McCurdy 7978 ^{1/4/}	Med	-	-	-	-	
		P.A.G. SX17A ^{1/4/}	Med	-	-	-	-	
		McCurdy 84AA ^{5/}	Low	-	-	-	-	
			White	O's Gold 2680W	Med	95	4.0	22.7
			DeKalb-Pfizer XL390B ^{1/}	Low	-	-	-	-
	Full-Season	Yellow	Pioneer brand 3165	Low	99	3.1	22.0	132
DeKalb-Pfizer DK-789			Med-High	97	3.8	24.4	120	
Funk G-4740A			Med	98	3.9	22.2	119	
Pioneer brand 3147			Med-High	94	4.7	23.4	119	
FFR 955C			Med-High	95	3.3	22.5	112	
USS 2020			Low	94	4.3	23.5	110	
Golden Harvest H-2775A ^{1/}			Low	90	3.8	21.7	107	
DeKalb-Pfizer XL394 ^{3/}			High	97	3.5	25.2	107	
Pioneer brand 3160 ^{1/4/}			Med-High	-	-	-	-	
			White	Zimmerman Z-11W	Med-High	92	3.9	23.9
			RA 2606W	Med	94	3.6	24.9	114
			Asgrow RX962W	Low	92	3.5	24.1	114
			Zimmerman Z-52W	Med-High	92	3.7	23.9	112
			Golden Harvest H-2660W	Med	90	3.6	24.6	111
			Princeton SX910 ^{1/}	Med-High	93	3.9	24.5	109
			FFR 929W ^{1/}	Med	90	3.8	23.4	108
			Princeton SP936 ^{1/}	Med	90	4.0	23.8	98

^{1/} Present plans indicate that this hybrid will not be recommended after 1985.

^{2/} Hybrids rated lower than medium-high are not recommended under heavy virus conditions.

^{3/} Recommended only under virus conditions.

^{4/} Not submitted for testing in 1984. ^{5/} Tested in 1981 in another maturity group.

Table 1. Corn: Yield of medium-season hybrids evaluated at five locations in 1984.

Color	Cross	Hybrid	Avg.	Knox- ^{1/} ville	Spring ^{2/} Hill	Spring- ^{3/} field	Martin ^{4/}	Milan ^{4/}
Bushels per acre								
y	2X	Pioneer brand 3147	182	187	158	186	193	187
y	2X	Zimmerman Z-27Y	175	168	157	183	192	176
y	2X	DeKalb-Pfizer DK-747	173	158	162	185	182	179
y	2X	DeKalb-Pfizer Exp-369	173	169	151	162	187	194
y	2X	Coker 21	173	179	150	168	176	191
y	2X	Golden Harvest H-2680	171	173	142	180	177	184
y	3X	Funk G-4765	170	169	134	171	192	184
y	2X	O's Gold 5509	170	173	145	178	177	175
y	2X	RA 1502	167	170	144	173	172	174
y	2X	RA 1604	166	157	136	179	180	180
y	M2X	Funk G-4733	166	164	145	164	177	180
y	2X	Pioneer brand 3320	165	165	139	159	179	181
y	2X	McCurdy 84AA	161	159	127	165	177	178
y	2X	McCurdy 8150	161	166	127	166	177	169
y	2X	Beck's 85XA	160	155	143	164	178	163
y	2X	Pioneer brand 3184	160	163	139	171	156	172
y	M2X	Funk G-4734	159	161	137	161	165	173
y	M2X	Pioneer brand 3187	159	155	132	158	177	175
y	2X	Pioneer brand 3369A	157	144	138	155	182	165
y	2X	N.K. PX9581	157	149	132	166	178	158
y	2X	Golden Harvest H-2686	156	174	119	163	160	164
y	2X	O's Gold 5291	154	141	128	163	174	166
y	2X	RA 1502M	153	152	129	162	170	151
y	M2X	GK 875 ^{5/}	153	152	133	165	168	145
y	M2X	Coker 19A	152	153	127	158	156	166
y	M2X	N.K. PX79	152	159	135	165	143	158
y	2X	P.A.G. SX351	152	129	121	151	185	175
y	2X	Cargill 967	152	139	118	144	182	177
y	2X	Stauffer S7759	151	136	124	164	179	154
y	2X	Asgrow RX777	150	148	120	163	168	149
y	2X	O's Gold 5255	149	143	138	152	167	146
y	2X	P.A.G. SX352	148	132	125	146	186	152
y	2X	FFR 848C	146	152	129	155	158	137
y	2X	DeKalb-Pfizer XL71	146	142	124	153	154	156
y	2X	Pioneer brand 3378	145	124	121	152	166	164
y	2X	P.A.G. SX354	145	132	130	151	168	145
y	M2X	Super Crost 7795	143	143	123	146	168	134
y	2X	FFR 811C	139	132	110	135	167	152
w	3X	O's Gold 2680W	138	139	108	146	154	142
y	2X	USS 1218	136	136	124	131	156	131
L.S.D. (.05)			8.8	12.7	16.1	14.4	23.3	19.6
C.V. %			9.0	5.9	8.6	6.4	9.6	8.5
Avg.			157.1	153.6	133.1	161.5	172.6	165.0
^{1/} Sequatchie silt loam (2% to 5% slopes).				^{4/}	Falaya silt loam (2% to 5% slopes).			
^{2/} Maury silt loam (2% to 5% slopes).				^{5/}	Agrictech Seeds - formerly Gold Kist.			
^{3/} Huntingtonsilt loam (2% to 5% slopes).								

Table 2. Corn: Yield and other characteristics of medium-season hybrids evaluated at five locations in 1984.

Color	Cross	Hybrid	Avg.	Erect plants %	Grain Quality (Rating) ^{1/}	Husk cover (Rating) ^{1/}	Ear ht. In.	Grain moisture at harvest %
y	2X	Pioneer brand 3147	182	96	4.2	3.9	58	23.3
y	2X	Zimmerman Z-27Y	175	99	2.3	3.4	59	19.7
y	2X	DeKalb-Pfizer DK-747	173	100	3.5	2.5	57	22.2
y	2X	DeKalb-Pfizer Exp-369	173	98	2.3	2.2	55	21.7
y	2X	Coker 21	173	98	3.7	2.8	52	22.7
y	2X	Golden Harvest H-2680	171	97	4.0	3.9	54	22.1
y	3X	Funk G-4765	170	97	3.5	2.8	58	22.0
y	2X	O's Gold 5509	170	99	3.5	2.6	51	22.4
y	2X	RA 1502	167	99	3.2	3.5	53	20.5
y	2X	RA 1604	166	94	4.2	3.5	53	21.6
y	M2X	Funk G-4733	166	100	2.3	2.6	53	22.3
y	2X	Pioneer brand 3320	165	98	2.7	2.4	53	20.9
y	2X	McCurdy 84AA	161	97	3.8	3.4	53	22.0
y	2X	McCurdy 8150	161	94	3.2	2.6	58	21.9
y	2X	Beck's 85XA	160	99	3.3	2.9	54	22.5
y	2X	Pioneer brand 3184	160	100	3.3	5.0	50	22.2
y	M2X	Funk G-4734	159	96	2.7	2.9	54	23.2
y	M2X	Pioneer brand 3187	159	99	3.2	2.8	56	22.6
y	2X	Pioneer brand 3369A	157	97	3.5	4.8	52	19.6
y	2X	N.K. PX9581	157	96	3.5	3.5	52	20.8
y	2X	Golden Harvest H-2686	156	93	3.7	4.4	55	22.5
y	2X	O's Gold 5291	154	98	3.7	3.8	50	22.1
y	2X	RA 1502M	153	99	3.0	3.6	51	20.9
y	M2X	GK 875 ^{2/}	153	97	3.0	3.5	56	20.6
y	M2X	Coker 19A	152	97	3.2	2.9	53	21.6
y	M2X	N.K. PX79	152	98	4.5	3.9	51	18.8
y	2X	P.A.G. SX351	152	95	5.7	4.9	53	19.4
y	2X	Cargill 967	152	94	5.2	4.5	55	19.4
y	2X	Stauffer S7759	151	96	3.7	4.4	55	19.0
y	2X	Asgrow RX 777	150	99	4.0	4.5	51	20.0
y	2X	O's Gold 5255	149	99	4.0	3.9	50	18.4
y	2X	P.A.G. SX352	148	98	3.7	4.2	53	19.5
y	2X	FFR 848C	146	94	2.5	2.9	56	20.9
y	2X	DeKalb-Pfizer XL71	146	97	3.5	4.6	49	20.1
y	2X	Pioneer brand 3378	145	100	4.0	4.8	52	18.6
y	2X	P.A.G. SX354	145	100	3.0	3.8	48	19.9
y	M2X	Super Crost 7795	143	96	2.5	3.5	56	21.1
y	2X	FFR 811C	139	96	4.3	4.8	51	21.2
w	3X	O's Gold 2680W	138	91	4.8	3.5	61	21.6
y	2X	USS 1218	136	98	4.2	3.8	45	19.4
L.S.D. (.05)			8.8					
C.V. %			9.0					
Avg.			157.1					

^{1/} Ratings based on a scale of 1 through 9 with 1 being excellent and 9 poor.^{2/} Agritech seeds - formerly Gold Kist.

Table 3. Corn: Yield of medium-season hybrids evaluated at four locations for two years (1983-84).

Color	Cross	Hybrid	2 Yr.	Knox- ville	Spring Hill	Spring- field	Milan
			avg. 1983-84				
Bushels per acre							
y	2X	Pioneer brand 3147	154	168	120	168	158
y	2X	DeKalb-Pfizer DK-747	147	154	117	165	152
y	2X	Pioneer brand 3320	146	156	115	152	160
y	2X	Coker 21	142	158	107	156	148
y	2X	McCurdy 8150	142	150	106	157	154
y	2X	Pioneer brand 3184	141	153	115	158	139
y	3X	Beck's 85XA	141	155	116	159	137
y	2X	Golden Harvest H-2680	140	158	102	155	147
y	2X	RA 1502	139	154	112	155	138
y	2X	O's Gold 5509	138	155	105	156	136
y	2X	RA 1604	136	151	102	153	140
y	M2X	Funk G-4733	136	147	105	151	143
y	2X	McCurdy 84AA	136	148	105	148	144
y	2X	O's Gold 5291	136	142	104	157	141
y	M2X	Coker 19A	136	147	107	148	141
y	M2X	Pioneer brand 3187	135	142	83	138	152
y	2X	Golden Harvest H-2686	135	157	93	152	137
y	M2X	Funk G-4734	134	147	104	146	140
y	2X	Pioneer brand 3369A	134	138	112	146	140
y	2X	FFR 848C	132	141	114	145	131
y	M2X	GK 875	132	143	110	148	128
y	2X	Asgrow RX777	127	145	101	150	114
w	3X	O's Gold 2680W	125	140	91	148	122
y	2X	N.K. PX79	125	143	96	148	113
y	2X	DeKalb-Pfizer XL71	125	133	103	134	129
y	2X	O's Gold 5255	124	130	105	140	122
y	2X	P.A.G. SX351	122	129	95	139	137
y	2X	P.A.G. SX354	121	131	103	139	113
y	2X	FFR 811C	120	128	97	134	121

Table 4. Corn: Yield and other characteristics of medium-season hybrids evaluated at four locations for two years (1983-84).

Color	Cross	Hybrid	2 Yr. Avg. yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture
			1983-84 Bu/A					at harvest
				%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3147	154	95	4.4	4.1	57	23.2
y	2X	DeKalb-Pfizer DK-747	147	99	3.7	3.2	56	22.8
y	2X	Pioneer brand 3320	146	98	2.6	3.0	52	21.0
y	2X	Coker 21	142	93	3.8	3.0	51	23.4
y	2X	McCurdy 8150	142	93	3.2	3.0	58	22.2
y	2X	Pioneer brand 3184	141	99	3.4	4.9	49	22.4
y	3X	Beck's 85XA	141	97	3.2	3.0	53	22.4
y	2X	Golden Harvest H-2680	140	95	3.8	3.8	53	23.4
y	2X	RA 1502	139	98	3.4	4.0	52	21.0
y	2X	O's Gold 5509	138	96	3.6	3.4	50	23.2
y	2X	RA 1604	136	95	4.0	3.4	51	22.8
y	M2X	Funk G-4733	136	98	2.7	2.9	53	22.8
y	2X	McCurdy 84AA	136	94	3.6	3.3	52	22.2
y	2X	O's Gold 5291	136	95	3.6	3.1	49	21.8
y	M2X	Coker 19A	136	94	3.6	3.2	53	21.4
y	M2X	Pioneer brand 3187	135	99	3.2	3.0	55	22.8
y	2X	Golden Harvest H-2686	135	90	3.7	4.4	53	23.0
y	M2X	Funk G-4734	134	96	2.8	3.8	53	23.6
y	2X	Pioneer brand 3369A	134	93	3.4	4.3	51	19.2
y	2X	FFR 848C	132	93	2.8	3.8	57	20.8
y	M2X	GK 875	132	95	3.0	4.0	56	20.5
y	2X	Asgrow RX777	127	96	3.8	4.2	50	19.8
w	3X	O's Gold 2680W	125	93	4.2	3.0	61	23.1
y	2X	N.K. PX79	125	97	4.8	4.0	51	19.2
y	2X	DeKalb-Pfizer XL71	125	94	3.7	4.3	49	20.4
y	2X	O's Gold 5255	124	97	4.3	3.3	51	18.1
y	2X	P.A.G. SX351	122	94	5.2	5.0	52	19.5
y	2X	P.A.G. SX354	121	97	3.0	3.9	47	20.2
y	2X	FFR 811C	120	95	4.0	4.1	49	20.2

^{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 three locations for three years (1982-84).

Color	Cross	Hybrid	3 yr.	Knox- ville	Spring Hill	Springfield
			Avg. 1982-84			
Bushels per acre						
y	2X	Pioneer brand 3147	150	169	115	166
y	2X	DeKalb-Pfizer DK-747	143	159	108	163
y	2X	Pioneer brand 3320	141	159	111	153
y	2X	Pioneer brand 3184	140	156	109	155
y	2X	Coker 21	139	157	101	158
y	2X	O's Gold 5509	136	156	96	155
y	2X	McCurdy 8150	136	153	102	151
y	M2X	Funk G-4733	134	151	102	150
y	2X	RA 1604	133	154	97	147
y	2X	FFR 848C	132	143	108	147
y	2X	RA 1502	132	150	103	145
y	2X	Golden Harvest H-2680	132	156	91	149
w	3X	O's Gold 2680W	132	148	91	156
y	2X	Golden Harvest H-2686	130	157	87	146
y	2X	N.K. PX79	129	143	98	146
y	2X	O's Gold 5291	129	140	98	149
y	2X	Pioneer brand 3369A	128	136	104	144
y	M2X	Pioneer brand 3187	128	144	99	140
y	2X	Asgrow RX777	127	144	94	143
y	M2X	Coker 19A	127	140	97	144
y	2X	DeKalb-Pfizer XL71	122	134	98	134

Table 6. Corn: Yield and other characteristics of medium-season hybrids evaluated at three locations for three years (1982-84).

Color	Cross	Hybrid	Avg. yield 1982-84	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3147	150	96	4.1	4.0	56	23.2
y	2X	DeKalb-Pfizer DK-747	143	99	3.7	3.2	56	22.1
y	2X	Pioneer brand 3320	141	98	2.5	3.1	51	20.8
y	2X	Pioneer brand 3184	140	100	3.4	4.8	50	22.5
y	2X	Coker 21	139	95	3.8	3.1	52	23.3
y	2X	O's Gold 5509	136	96	3.7	3.5	51	23.1
y	2X	McCurdy 8150	136	94	3.3	3.0	58	22.5
y	M2X	Funk G-4733	134	98	2.8	3.1	53	22.8
y	2X	RA 1604	133	94	3.9	3.3	51	22.6
y	2X	FFR 848C	132	95	2.9	3.6	57	20.6
y	2X	RA 1502	132	97	3.5	4.0	51	20.9
y	2X	Golden Harvest H-2680	132	95	3.9	3.7	52	23.1
w	3X	O's Gold 2680W	132	95	4.0	3.0	61	22.7
y	2X	Golden Harvest H-2686	130	92	3.8	4.2	53	23.2
y	2X	N.K. PX79	129	98	4.7	3.8	52	19.3
y	2X	O's Gold 5291	129	94	3.8	3.2	48	21.7
y	2X	Pioneer brand 3369A	128	95	3.5	4.3	50	19.4
y	M2X	Pioneer brand 3187	128	99	3.4	3.0	54	21.9
y	2X	Asgrow RX777	127	96	3.6	4.0	50	19.7
y	M2X	Coker 19A	127	96	3.7	3.2	53	21.3
y	2X	DeKalb-Pfizer XL71	122	96	3.8	4.2	50	20.4

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

Table 7. Corn: Yield of full-season hybrids evaluated at four locations in 1984.

Color	Cross	Hybrid	Avg. ^{1/}	Knox- ^{2/} ville	Spring ^{3/} Hill	Ames ^{4/} Plantation	Jackson ^{5/}
Bushels per acre							
y	2X	Pioneer brand 3165	148	196	150	129	111
w	M2X	RA 2606W	139	183	149	126	93
w	3X	GK 927W ^{6/}	137	184	152	105	106
y	2X	DeKalb-Pfizer DK-789	136	184	150	108	106
w	2X	Asgrow RX962W	136	188	137	122	95
y	M2X	Funk G-4740A	135	165	137	116	119
w	2X	Golden Harvest H2660W	135	189	140	109	105
w	2X	Zimmerman Z-11W	133	193	138	106	99
y	2X	N.K. PX9692	133	186	140	98	104
y	M3X	Funk G-4858	133	176	133	104	111
y	2X	Pioneer brand 3147	131	166	142	113	102
w	2X	Zimmerman Z-52W	131	184	137	104	92
y	2X	USS 2020	130	183	141	98	97
y	2X	FFR 905C	130	177	141	102	100
y	2X	FFR Exp. 31026	129	169	134	99	111
y	2X	GK 900 ^{6/}	129	163	134	108	103
w	3X	DeKalb-Pfizer DK77W ^{7/}	128	182	130	104	100
y	3X	Asgrow RX114	128	168	138	100	101
w	2X	Stauffer S8820W	128	174	132	108	95
y	2X	McCurdy 8172	128	169	130	100	114
w	2X	Zimmerman Z-14W	127	181	134	97	88
w	2X	FFR 929W	127	180	128	106	92
w	2X	Princeton SX910	126	182	139	91	92
y	M2X	FFR 955C	126	178	128	100	96
w	M2X	T82:2051 (Exp.)	124	176	141	95	88
y	2X	Cargill 980	124	171	133	109	85
w	M2X	T83:5004 (Exp.)	124	170	128	96	94
y	2X	Golden Harvest H-2775A	123	161	128	110	93
w	M3X	Funk G-4779W	123	169	134	92	94
y	2X	Paymaster 8990	123	170	130	93	96
y	3X	DeKalb-Pfizer XL394	123	174	143	93	77
y	2X	N.K. PX95	122	169	128	90	98
w	3X	RA 3605W	122	178	125	92	88
y	2X	GK 850 ^{6/}	121	154	132	104	93
y	2X	P.A.G. SX 383	120	153	118	108	96
w	3X	Funk G-4787W	117	167	115	92	89
y	2X	Stauffer S8445	117	153	122	99	95
w	M2X	T82:5001	114	158	113	98	83
w	SP2X	Princeton SP936	112	154	117	88	86
y	2X	Paymaster 7990	109	132	111	98	96
y	2X	USS 9001	108	138	114	88	92
y	3X	RA 3507	100	124	108	82	85
L.S.D. (.05)			10.1	13.0	16.4	18.1	17.5
C.V. %			11.0	5.4	8.8	12.7	14.5
Avg.			131.2	170.7	132.2	101.9	96.7

^{1/} Five replications were used to calculate Jackson location yields and only 4 replications used for the Jackson location when data was analyzed across all four locations.

^{2/} Sequatchie silt loam (2% to 5% slopes). ^{3/} Maury silt loam (2% to 5% slopes).

^{4/} Loring silt loam (2% to 5% slopes). ^{5/} Memphis silt loam (2% to 5% slopes).

^{6/} AgriTech seed - formerly Gold Kist.

^{7/} Tested in previous years as Exp. 375.

Table 8. Corn: Yield and other characteristics of full-season hybrids evaluated at five locations in 1984.

Color	Cross	Hybrid	Yield Bu/A	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Ear ht. In.	Grain moisture at harvest %
y	2X	Pioneer brand 3165	148	98	3.2	4.0	51	21.9
w	M2X	RA 2606W	139	88	2.7	2.2	53	24.0
w	3X	GK 927W ^{2/}	137	88	3.0	2.5	52	23.6
y	2X	DeKalb-Pfizer DK-789	136	97	3.5	4.0	47	25.4
w	2X	Asgrow RX962W	136	93	2.5	2.0	52	24.0
y	M2X	Funk G-4740A	135	98	3.8	4.2	44	22.8
w	2X	Golden Harvest H2660W	135	84	2.8	2.0	52	24.7
w	2X	Zimmerman Z-11W	133	87	2.8	2.2	53	24.0
y	2X	N.K. PX9692	133	94	3.3	3.0	50	24.7
y	M3X	Funk G-4858	133	94	2.8	2.5	46	23.8
y	2X	Pioneer brand 3147	131	91	4.0	3.8	47	23.8
w	2X	Zimmerman Z-52W	131	86	2.5	2.8	52	24.4
y	2X	USS 2020	130	97	3.7	3.2	45	23.0
y	2X	FFR 905C	130	96	4.0	3.8	46	22.5
y	2X	FFR Exp. 31026	129	96	3.8	2.5	41	22.5
y	2X	GK 900 ^{2/}	129	97	3.0	4.5	48	22.9
w	3X	DeKalb-Pfizer DK77W	128	89	3.2	2.2	53	24.7
y	3X	Asgrow RX114	128	95	2.8	3.0	47	21.0
w	2X	Stauffer S8820W	128	90	2.7	2.5	52	22.9
y	2X	McCurdy 8172	128	93	2.8	3.2	51	23.9
w	2X	Zimmerman Z-14W	127	93	2.8	2.0	45	22.4
w	2X	FFR 929W	127	90	3.0	3.2	53	23.3
w	2X	Princeton SX910	126	89	3.2	2.5	51	24.5
y	M2X	FFR 955C	126	89	3.0	3.0	49	22.3
w	M2X	T82:2051 (Exp.)	124	95	2.7	1.5	53	23.9
y	2X	Cargill 980	124	94	3.3	3.0	46	23.1
w	M2X	T83:5004 (Exp.)	124	91	3.2	2.8	49	25.4
y	2X	Golden Harvest H-2775A	123	85	3.5	4.2	44	21.8
w	M3X	Funk G-4779W	123	96	3.3	2.8	52	23.2
y	2X	Paymaster 8990	123	94	2.5	3.2	46	22.3
y	3X	DeKalb-Pfizer XL394	123	94	2.8	2.5	52	24.9
y	2X	N.K. PX95	122	87	4.0	3.8	50	24.0
w	3X	RA 3605W	122	83	2.7	2.8	50	23.6
y	2X	GK 850 ^{2/}	121	95	4.2	3.5	45	21.1
y	2X	P.A.G. SX383	120	94	3.2	4.0	46	22.7
w	3X	Funk G-4787W	117	95	3.2	2.5	53	22.1
y	2X	Stauffer S8445	117	94	2.7	3.2	45	20.8
w	M2X	T82:5001	114	81	3.7	2.0	48	22.7
w	SP2X	Princeton SP936	112	91	2.7	3.0	53	24.7
y	2X	Paymaster 7990	109	93	5.8	4.8	41	18.8
y	2X	USS 9001	108	97	3.7	2.8	39	22.4
y	3X	RA 3507	100	98	4.3	4.2	42	19.8

L.S.D. (.05)

10.1

C.V. %

11.0

Avg.

131.2

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

^{2/} AgriTech seed - formerly Gold Kist.

Table 9. Corn: Yield of full-season hybrids evaluated at four locations for two years (1983-84).

Color	Cross	Hybrid	2 Yr.	Knox- ville	Spring Hill	Ames Plantation	Jackson
			avg. (1983-84)				
Bushels per acre							
y	2X	Pioneer brand 3165	123	172	125	111	85
y	2X	DeKalb-Pfizer DK-789	114	169	115	100	73
y	M2X	Funk G-4740A	114	153	110	110	82
y	2X	Pioneer brand 3147	112	158	112	105	74
w	M2X	RA 2606W	111	159	112	105	69
w	2X	Zimmerman Z-11W	111	173	106	94	70
w	3X	GK-727W	110	171	108	91	70
w	2X	Asgrow RX962W	109	167	103	98	69
y	M2X	FFR 955C	108	160	107	92	73
w	2X	Zimmerman Z-14W	108	165	109	85	72
y	2X	GK-900	108	150	100	99	82
y	2X	Cargill 980	107	171	105	99	69
y	2X	Paymaster 8990	107	154	104	89	81
w	2X	Zimmerman Z-52W	107	165	103	94	67
w	2X	Golden Harvest H-2660W	106	162	106	86	71
w	2X	Princeton SX910	105	160	109	83	66
y	2X	USS 2020	105	159	96	75	105
w	M2X	T82:2051 (Exp)	105	158	109	86	65
y	2X	McCurdy 8172	104	157	105	95	58
y	2X	FFR 905C	104	153	101	89	71
w	2X	FFR 929W	102	157	96	90	63
y	2X	Golden Harvest H-2775A	101	147	93	94	69
w	3X	RA 3605W	100	158	89	86	66
y	3X	DeKalb-Pfizer XL394	100	150	106	88	54
y	2X	N.K. PX95	99	145	101	84	67
w	SP2X	Princeton SP936	98	146	96	89	62
w	3X	Funk G-4787W	94	151	85	81	57

Table 10. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for two years (1983-84).

Color	Cross	Hybrid	2 Yr. Avg. yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture
			1983-84 Bu/A					at harvest %
y	2X	Pioneer brand 3165	123	99	3.6	3.8	54	21.2
y	2X	DeKalb-Pfizer DK-789	114	97	3.0	3.5	52	23.6
y	M2X	Funk G-4740A	114	97	4.0	4.2	47	21.7
y	2X	Pioneer brand 3147	112	91	4.9	3.5	52	21.9
w	M2X	RA 2606W	111	92	3.8	2.8	54	24.1
w	2X	Zimmerman Z-11W	111	89	4.3	2.5	58	24.0
w	3X	GK 727W	110	89	3.6	2.8	57	23.7
w	2X	Asgrow RX962W	109	89	3.6	2.4	56	23.8
y	M2X	FFR 955C	108	93	3.9	3.0	52	21.6
w	2X	Zimmerman Z-14W	108	91	3.6	2.5	50	21.6
y	2X	GK 900	108	96	4.1	4.0	51	21.2
y	2X	Cargill 980	107	91	4.2	3.0	50	21.6
y	2X	Paymaster 8990	107	92	3.8	3.2	51	21.2
w	2X	Zimmerman Z-52W	107	89	3.8	3.0	57	23.5
w	2X	Golden Harvest H-2660W	106	87	3.9	2.5	55	24.4
w	2X	Princeton SX910	105	92	4.4	2.8	55	24.2
y	2X	USS 2020	105	94	4.4	3.6	49	22.6
w	M2X	T82:2051 (Exp.)	105	97	3.6	2.0	57	23.4
y	2X	McCurdy 8172	104	93	3.6	3.1	53	23.6
y	2X	FFR 905C	104	94	5.0	3.4	48	22.2
w	2X	FFR 929W	102	93	4.2	3.2	56	23.5
y	2X	Golden Harvest H-2775A	101	89	4.0	3.7	48	21.2
w	3X	RA 3605W	100	90	3.4	2.9	56	23.4
y	3X	DeKalb-Pfizer XL394	100	96	3.8	2.8	57	24.2
y	2X	N.K. PX95	99	92	4.6	3.4	56	23.4
w	SP2X	Princeton SP936	98	90	4.0	3.0	57	23.8
w	3X	Funk G-4787W	94	96	4.1	2.5	56	23.2

¹/ 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 three years (1982-84).

Color	Cross	Hybrid	3 Yr.	Knox- ville	Spring Hill	Ames Plantation	Jackson
			avg. 1982-84				
Bushels per acre							
y	2X	Pioneer brand 3165	132	175	126	121	104
y	2X	DeKalb-Pfizer DK-789	120	167	111	104	97
y	M2X	Funk G-4740A	119	154	109	114	100
y	2X	Pioneer brand 3147	119	158	110	111	96
w	2X	Zimmerman Z-11W	116	170	104	95	96
w	M2X	RA 2606W	114	158	106	104	88
w	2X	Asgrow RX962W	114	168	99	101	88
y	M2X	FFR 955C	112	161	103	93	93
w	2X	Zimmerman Z-52W	112	163	102	95	88
w	2X	Golden Harvest H-2660W	111	160	100	93	92
y	2X	USS 2020	110	157	92	92	97
w	M2X	T82:2051 (Exp)	109	160	101	90	85
w	2X	Princeton SX910	109	159	101	88	87
y	2X	FFR 905C	108	177	95	92	89
w	2X	FFR 929W	108	158	94	91	87
y	2X	Golden Harvest H-2775A	107	149	90	100	90
y	3X	DeKalb-Pfizer XL394	107	152	101	93	82
y	2X	N.K. PX95	106	152	99	84	91
w	3X	RA 3605W	106	157	92	89	86
w	SP2X	Princeton SP936	105	150	95	90	85

Table 12. Corn: Yield and other characteristics of full-season hybrids evaluated at four locations for three years (1982-84).

Color	Cross	Hybrid	3 yr. avg. yield	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			1982-84 Bu/A					moisture at harvest
				%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3165	132	99	3.1	3.7	54	22.0
y	2X	DeKalb-Pfizer DK-789	120	97	3.8	3.7	53	24.4
y	M2X	Funk G-4740A	119	98	3.9	4.2	47	22.2
y	2X	Pioneer brand 3147	119	94	4.7	3.6	53	23.4
w	2X	Zimmerman Z-11W	116	92	3.9	2.5	58	23.9
w	M2X	RA 2606W	114	94	3.6	3.0	54	24.9
w	2X	Asgrow RX962W	114	92	3.5	2.6	56	24.1
y	M2X	FFR 955C	112	95	3.3	3.3	54	22.5
w	2X	Zimmerman Z-52W	112	92	3.7	3.0	57	23.9
w	2X	Golden Harvest H-2660W	111	90	3.6	2.7	55	24.6
y	2X	USS 2020	110	94	4.3	3.5	49	23.5
w	M2X	T82:2051	109	97	3.4	2.1	57	23.6
w	2X	Princeton SX910	109	93	3.9	2.7	55	24.5
y	2X	FFR 905C	108	95	4.7	3.5	49	23.2
w	2X	FFR 929W	108	94	4.2	3.1	57	23.4
y	2X	Golden Harvest H-2775A	107	90	3.8	3.5	48	21.7
y	3X	DeKalb-Pfizer XL394	107	97	3.5	2.8	58	25.2
y	2X	N.K. PX95	106	94	4.2	3.5	56	24.0
w	3X	RA 3605W	106	92	3.5	2.8	55	24.1
w	SP2X	Princeton SP936	105	93	3.9	3.2	58	24.6

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

Table 13. Corn: Yield of 28 early-maturing hybrids evaluated at four locations in 1984.

Color	Cross	Hybrid	Avg.	Knox- ^{1/} ville	Martin ^{2/}	Milan ^{3/}	Ames ^{4/} Plantation
				Bushels per acre			
y	2X	McCurdy 81-82	153	174	137	186	115
y	2X	McCurdy 7800	145	164	123	185	109
y	2X	Pioneer brand 3389	144	144	155	165	113
y	2X	FFR 788C	143	149	153	169	100
y	M2X	Funk G-4522	143	144	152	178	98
y	2X	McCurdy 7676	143	170	143	153	105
y	2X	O's Gold 2570	142	165	127	170	105
y	2X	FFR Exp 3100	136	153	122	162	107
y	2X	McCurdy 7372	132	151	118	150	111
y	2X	DeKalb-Pfizer TXS115A	132	137	129	153	110
y	2X	P.A.G. SX333	132	136	142	147	102
y	2X	Pioneer brand 3358	132	133	130	156	107
y	2X	O's Gold 3344	131	143	114	152	95
y	2X	Coker 19	129	141	141	139	96
y	2X	Super Crost 5438	129	139	126	144	107
y	2X	USS 7001	129	146	130	133	108
y	2X	Beck's 65X	128	138	130	142	101
y	2X	DeKalb-Pfizer DK656	127	153	102	151	103
y	2X	O's Gold 2545	127	138	104	158	108
y	2X	Super Crost	126	133	110	156	106
y	3X	FFR 799C	126	134	113	149	109
y	M2X	FFR 717C	126	140	121	156	87
y	2X	O's Gold 6882	126	134	125	154	90
y	2X	Coker 8570	124	124	139	140	95
y	2X	FFR 15731	124	136	109	150	100
y	2X	FFR 744C	123	127	129	136	100
y	2X	DeKalb-Pfizer T1100	122	131	125	141	91
y	2X	N.K. PX9415	96	116	75	129	70
L.S.D. (.05)			10.1	15.7	35.5	19.4	12.6
C.V. %			11.0	7.8	20.0	9.0	8.8
Avg.			131.2	142.6	126.6	153.7	101.7

^{1/} Sequatchie silt loam (2% to 5% slopes).^{2/} Grenada silt loam (2% to 5% slopes).^{3/} Collins silt loam (2% to 5% slopes).^{4/} Loring silt loam (2% to 5% slopes).

Table 14. Corn: Yield and other characteristics of early-maturing hybrids evaluated at four locations in 1984.

Color	Cross	Hybrid	Yield Bu/A	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Ear ht. In.	Grain moisture at harvest
								%
y	2X	McCurdy 81-82	153	97	3.0	4.3	50	24.0
y	2X	McCurdy 7800	145	97	2.5	4.4	50	26.1
y	2X	Pioneer brand 3389	144	100	3.0	4.7	48	20.8
y	2X	FFR 788C	143	100	4.0	3.3	47	22.0
y	M2X	Funk G-4522	143	100	2.5	3.4	47	21.9
y	2X	McCurdy 7676	143	98	3.5	3.4	52	22.8
y	2X	O's Gold 2570	142	100	3.0	3.4	52	23.0
y	2X	FFR Exp. 31000	136	100	2.5	3.3	48	21.2
y	2X	McCurdy 7372	132	100	2.5	4.3	47	21.5
y	2X	DeKalb-Pfizer TXS115A	132	100	4.0	4.3	46	21.9
y	2X	P.A.G. SX333	132	100	4.5	4.0	44	22.3
y	2X	Pioneer brand 3358	132	100	3.5	5.0	48	23.0
y	2X	O's Gold 3344	131	97	3.5	3.6	44	21.3
y	2X	Coker 19	129	100	3.5	4.0	45	23.0
y	2X	Super Crost 5438	129	100	4.0	5.0	50	22.4
y	2X	USS 7001	129	100	4.0	4.4	47	21.5
y	2X	Beck's 65X	128	99	4.0	4.7	52	21.6
y	2X	DeKalb-Pfizer DK-656	127	100	3.0	4.4	51	22.5
y	2X	O's Gold 2545	127	100	4.5	4.6	51	21.8
y	2X	Super Crost 6307	126	98	3.0	5.4	45	22.8
y	3X	FFR 799C	126	98	3.0	4.8	46	22.2
y	M2X	FFR 717C	126	98	3.5	4.0	43	20.2
y	2X	O's Gold 6882	126	100	5.5	5.0	43	21.4
y	2X	Coker 8570	124	100	6.0	5.4	43	20.8
y	2X	FFR 15731	124	100	3.5	4.8	47	21.7
y	2X	FFR 744C	123	99	6.5	4.1	44	22.8
y	2X	DeKalb-Pfizer T1100	122	100	4.5	5.0	42	20.5
y	2X	N.K. PX9415	96	96	4.5	5.3	37	17.5
L.S.D. (.05)			10.1					
C.V. %			11.0					
Avg.			131.2					

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

Table 15. Corn: Yield and other characteristics of early-maturing hybrids evaluated at two locations for two years 1983-84.

Color	Cross	Hybrid	2 Yr. Avg. yield 1983-84	Erect plants	Grain quality	Husk cover	Ear ht.	Grain moisture at harvest
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	%
y	2X	Pioneer brand 3389	129	99	3.1	4.1	53	20.2
y	2X	McCurdy 7800	129	87	3.2	4.0	52	24.2
y	2X	O's Gold 2570	127	88	3.8	3.2	55	22.3
y	2X	Pioneer brand 3358	121	100	3.8	4.5	53	22.6
y	2X	USS 7001	121	91	5.0	4.0	50	21.0
y	2X	P.A.G. SX333	114	95	5.2	4.5	49	21.4
y	2X	FFR 788C	114	96	4.5	3.9	52	22.0
y	2X	DeKalb-Pfizer TXS115A	113	97	4.5	3.6	52	21.4
y	2X	O's Gold 3344	113	94	4.2	3.0	50	20.6
y	M2X	Funk G-4522	111	88	3.2	3.2	52	21.4
y	3X	FFR 799C	110	91	4.6	4.6	50	21.8
y	2X	FFR 744C	109	90	6.0	4.6	51	22.3
y	2X	Coker 19	108	93	4.2	4.2	52	22.2
y	2X	O's Gold 6882	105	95	5.2	4.2	46	19.8
y	2X	O's Gold 8570	105	97	5.5	4.2	46	19.5
y	M2X	FFR 717C	101	94	3.8	3.8	49	19.1
y	2X	DeKalb-Pfizer T1100	101	99	4.8	4.8	46	19.1
y	2X	N.K. PX9415	91	89	4.2	4.6	42	16.8

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

Table 16. Corn: Yields of early-maturing corn hybrids evaluated at two locations for three years (1982-84).

Color	Cross	Hybrid	3 Yr. avg.		
			1982-84	Knoxville	Ames Plantation
Bushels per acre					
y	2X	Pioneer brand 3389	133	154	112
y	2X	O's Gold 2570	132	152	112
y	2X	Pioneer brand 3358	126	141	112
y	2X	O's Gold 3344	118	140	95
y	M2X	Funk G-4522	116	137	95
y	2X	FFR 788C	115	135	95
y	2X	FFR 799C	114	129	100
y	2X	Coker 19	114	134	94
y	2X	O's Gold 6882	110	130	92
y	M2X	FFR 717C	110	136	84
y	2X	FFR 744C	109	124	94

Table 17. Corn: Yield and other characteristics of early-maturing hybrids evaluated at two locations for three years (1982-84).

Color	Cross	Hybrid	3 Yr.	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			avg.					moisture
			yield					at
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	harvest
								%
y	2X	Pioneer brand 3389	133	100	3.1	4.6	54	21.8
y	2X	O's Gold 2570	132	91	3.5	3.4	52	24.8
y	2X	Pioneer brand 3358	126	100	3.7	4.7	53	23.9
y	2X	O's Gold 3344	118	94	4.2	3.5	50	22.2
y	M2X	Funk G-4522	116	92	3.3	3.5	50	23.2
y	2X	FFR 788C	115	96	4.5	4.2	51	23.5
y	2X	FFR 799C	114	93	4.5	4.6	50	23.4
y	2X	Coker 19	114	94	4.4	4.2	52	22.0
y	2X	O's Gold 6882	110	96	4.9	4.6	46	21.5
y	M2X	FFR 717C	110	95	3.7	3.7	51	20.7
y	2X	FFR 744C	109	92	5.6	4.6	50	23.4

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

Table 18. Corn: Yield and other characteristics of 34 extra hybrids evaluated at Knoxville in 1984^{1/}.

Color	Cross	Hybrid	Yield	Grain quality Rating ^{2/}	Husk cover Rating ^{2/}	Ear ht. In.	Grain moisture at harvest %
y	2X	Pioneer brand 3147	186	4.0	2.0	60	24.4
w	M2X	FFR Exp. 1416W	182	2.5	2.5	56	26.2
y	2X	Beck's 85MDM	178	3.5	3.5	60	27.5
w	3X	FFR Exp. 1415	171	3.0	2.5	56	27.4
w	2X	FFR Exp. 18509	169	2.5	3.0	58	25.8
y	2X	N.K. Knx 6614	169	4.0	4.0	58	22.0
w	M2X	T82-5007 (Exp.)	168	2.5	2.0	58	26.0
y	2X	Zimmerman Z-23Y	167	3.0	2.5	62	25.6
y	2X	T232 x T220 (Exp.)	163	3.0	3.0	70	26.8
y	M3X	Funk Exp. 7022P	161	3.0	2.5	52	26.6
y	2X	Princeton SX870	161	4.0	2.5	56	26.3
y	2X	Jacques 8400	160	2.5	5.5	56	26.0
y	2X	Jacques JX247	159	3.5	3.5	58	25.0
y		T.E. 6996	158	2.0	5.5	58	24.4
w	2X	FFR Exp. 47515	158	4.0	3.5	58	27.9
w	3X	FFR Exp. 1414	156	3.0	1.5	66	24.8
y	2X	Beck's 90X	156	2.5	4.5	43	23.8
y	3X	Coker 22	150	4.0	3.0	55	25.1
y	2X	Paymaster 8951	149	3.5	4.5	58	26.7
y	3X	Ferry Morse GT 3660	148	4.0	3.0	54	20.8
y	2X	Zimmerman Z-28Y	147	3.5	3.5	60	22.6
y	2X	Golden Harvest H-2675	147	3.0	4.0	57	23.4
y	2X	Super Crost 7600	145	4.5	4.0	51	24.2
y	3X	Golden Harvest H-2745	144	3.0	2.5	60	25.5
y	M2X	Funk Exp. 6014X	143	3.0	3.0	48	23.5
y	2X	Zimmerman Z-34Y	143	2.5	2.0	52	22.8
y	2X	Jacques 7900	137	3.5	5.0	54	20.7
y	2X	FFR Exp. 30878	135	2.5	4.5	52	22.4
y	2X	McCurdy 7277	135	3.5	5.0	57	21.7
y	2X	DeKalb-Pfizer XL72b	133	5.0	4.0	51	22.4
y	2X	Super Crost 6340	123	4.0	3.0	54	22.8
y	2X	Jacques 8100	114	6.0	3.5	52	23.1
y	2X	Cargill 955	102	4.5	5.5	47	22.6
y	2X	Ferry Morse GT3008	81	7.5	7.0	48	20.8
L.S.D. (.05)			22.1				
C.V. %			10.5				
Avg.			150.1				

^{1/} Sequatchie silt loam (2% to 5% slopes).^{2/} A rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 19. Corn: Yield and other characteristics of early-maturing corn hybrids evaluated at Crossville in 1984.^{1/}

Color	Cross	Hybrid	Yield Bu/A	Erect plants %	Grain quality Rating ^{2/}	Husk cover Rating ^{2/}	Ear ht. In.	Grain moisture at harvest %
y	2X	McCurdy 81-82	183	99	4.0	4.5	64	28.7
y	2X	O's Gold 2570	182	100	3.0	2.5	67	25.9
y	2X	Pioneer brand 3389	179	100	2.5	7.0	60	24.6
y	2X	McCurdy 7800	177	100	3.0	5.5	54	29.6
y	2X	Beck's 65X	176	99	3.0	3.5	70	24.2
y	2X	DeKalb-Pfizer DK656	175	100	3.0	3.0	61	25.4
y	2X	FFR 788C	175	99	3.5	4.0	57	24.9
y	2X	Super Crost 5438	174	100	3.5	3.5	55	24.6
y	2X	DeKalb-Pfizer TXS115A	174	99	4.0	3.5	56	24.4
y	2X	USS 7001	174	100	3.0	3.5	54	25.4
y	2X	McCurdy 7372	173	100	2.5	3.5	54	25.0
y	2X	Coker 19	172	99	4.0	3.5	60	25.2
y	2X	McCurdy 7676	172	100	2.0	2.0	67	24.6
y	2X	Coker 8570	168	100	4.0	5.0	50	25.2
y	2X	Pioneer brand 3358	168	100	3.5	6.5	57	25.1
y	2X	P.A.G. SX333	167	100	3.5	3.0	54	24.2
y	2X	O's Gold 2545	167	99	3.0	4.0	58	23.2
y	2X	FFR Exp. 31000	166	100	2.5	3.5	54	24.0
y	2X	O's Gold 3344	163	100	3.0	4.0	57	25.6
y	2X	O's Gold 6882	163	100	3.5	5.0	48	24.0
y	3X	FFR 799C	163	96	3.5	5.0	54	25.3
y	M2X	Funk G-4522	162	100	4.0	3.0	56	26.6
y	2X	FFR 744C	161	100	4.5	3.5	58	25.1
y	2X	DeKalb-Pfizer T1100	158	100	4.0	6.0	48	25.6
y	2X	FFR 15731	158	100	3.0	3.0	57	23.2
y	2X	Super Crost 6307	152	100	2.5	7.0	52	27.9
y	2X	N.K. PX9415	142	99	3.5	4.5	47	21.5
y	M2X	FFR 717C	138	96	3.0	3.5	57	25.0
L.S.D. (.05)			10.7					
C.V. %			4.6					
Avg.			167					

^{1/} Hartsells loam (2% to 5% slopes).^{2/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 20. Corn: Yield and other characteristics of 40 medium-season hybrids evaluated at Crossville in 1984.^{1/}

Color	Cross	Hybrid	Yield Bu/A	Erect plants %	Grain quality Rating ^{2/}	Husk cover Rating ^{2/}	Ear ht. In.	Grain moisture at
								harvest %
y	2X	Stauffer S7759	176	99	2.0	4.5	63	25.3
y	2X	P.A.G. SX352	174	100	2.5	5.0	60	25.2
y	2X	McCurdy 8150	172	100	2.5	3.0	66	26.8
y	2X	RA 1502M	171	100	3.0	4.0	61	37.4
y	2X	P.A.G. SX351	171	100	4.0	6.0	64	26.0
y	2X	Asgrow RX777	169	99	2.0	3.5	51	25.4
y	2X	Beck's 85XA	168	100	3.5	3.0	56	31.4
y	2X	DeKalb DK-747	168	99	3.5	3.5	61	31.6
y	2X	Zimmerman Z-27Y	168	100	2.5	3.5	72	29.2
y	2X	Golden Harvest H-2686	168	99	3.0	3.5	60	31.9
y	2X	McCurdy 84AA	167	99	3.0	3.5	59	27.9
y	2X	Cargill 967	167	100	4.0	5.5	62	27.2
y	2X	Pioneer brand 3184	167	100	4.0	5.5	56	30.0
y	2X	O's Gold 5509	166	100	3.5	4.0	58	31.5
y	2X	N.K. PX9581	165	100	4.0	4.0	60	28.6
y	2X	DeKalb XL71	165	99	3.0	5.0	56	28.9
y	2X	Pioneer brand 3369A	165	99	3.0	4.0	56	25.4
y	2X	Golden Harvest H-2680	164	100	3.5	5.0	54	31.3
y	2X	O's Gold 5255	164	100	3.5	3.5	59	25.8
y	2X	Coker 21	163	100	3.5	4.0	58	31.8
y	2X	RA 1502	162	100	3.0	3.5	53	27.5
y	2X	Pioneer brand 3378	162	99	3.0	6.5	54	24.9
y	2X	O's Gold 5291	162	99	3.0	3.0	54	30.7
y	M2X	Funk G-4733	161	100	3.0	3.0	62	29.5
y	2X	DeKalb-Pfizer Exp. 369	161	99	3.5	4.5	61	28.8
y	2X	RA 1604	161	100	3.5	4.0	58	32.7
y	2X	P.A.G. SX354	160	100	2.5	3.5	58	26.7
y	2X	N.K. PX79	160	100	4.0	4.5	58	25.1
w	2X	O's Gold 2680W	157	100	5.0	4.0	69	28.8
y	2X	Pioneer brand 3320	156	100	2.0	4.5	54	26.8
y	2X	Super Crost 7795	156	99	2.5	3.0	58	29.8
y	M2X	Coker 19A	155	100	3.0	4.0	60	29.4
y	M2X	Funk G-4734	154	99	3.5	3.5	62	32.9
y	M2X	GK 875	154	100	3.0	4.0	68	29.4
y	2X	USS 1218	152	96	2.0	3.0	52	26.8
y	2X	FFR 848C	151	100	3.0	3.0	66	30.2
y	2X	Funk G-4765	150	100	4.0	3.0	66	35.1
y	M2X	Pioneer brand 3187	148	96	3.0	2.0	68	32.8
y	2X	Pioneer brand 3147	146	100	4.5	4.5	64	33.4
y	2X	FFR 811C	139	100	4.0	5.5	52	27.5
L.S.D. (.05)			14.3					
C.V. %			12.3					
Avg.			161.6					

^{1/} Hartsells 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 medium-season hybrids evaluated at Crossville for two years 1983-84.

Color	Cross	Hybrid	2 Yr. Avg.	Erect plants %	Grain	Husk	Ear ht. In.	Grain
			yield 1983-84 Bu/A		quality Rating ^{1/}	cover Rating ^{1/}		moisture at harvest %
y	2X	Beck's 85XA	147	89	3.2	2.5	54	29.6
y	2X	P.A.G. SX351	144	97	4.2	5.2	61	26.5
y	2X	McCurdy 8150	138	81	3.0	3.0	63	28.1
y	2X	Asgrow RX777	137	81	2.5	3.5	53	24.6
y	2X	O's Gold 5291	135	74	3.0	3.0	54	28.2
y	2X	P.A.G. SX354	135	81	2.6	3.5	54	26.0
y	2X	Pioneer brand 3184	134	98	4.0	5.0	52	31.4
y	2X	Pioneer brand 3369A	133	79	3.5	3.8	56	25.4
y	2X	O's Gold 5509	132	92	3.5	4.5	56	33.5
y	2X	Golden Harvest H-2686	132	78	3.2	3.2	58	32.2
y	2X	McCurdy 84AA	132	80	3.5	3.5	58	28.4
y	M2X	Funk G-4733	132	93	3.2	3.0	60	29.8
y	2X	DeKalb-Pfizer DK-747	131	97	4.0	3.2	59	33.6
y	2X	RA 1502	131	94	3.8	3.5	55	28.6
y	2X	O's Gold 5255	131	96	4.0	3.2	56	25.1
y	2X	Pioneer brand 3320	131	89	2.5	3.5	54	27.9
y	2X	Coker 19A	131	86	3.2	3.2	59	29.2
y	2X	Golden Harvest H-2680	130	92	4.0	4.2	56	33.2
y	2X	Coker 21	128	95	3.2	3.8	58	32.5
y	2X	N.K. PX79	128	93	4.0	4.5	55	27.2
y	2X	DeKalb-Pfizer XL71	128	93	3.2	4.0	55	28.7
y	2X	Pioneer brand 3147	126	82	4.8	4.2	60	33.0
y	2X	FFR 848C	125	89	3.0	3.0	64	29.0
y	2X	P.A.G. SX354	123	86	3.0	3.5	64	28.2
y	2X	FFR 811C	122	86	3.5	4.8	52	26.2
y	2X	RA 1604	121	95	4.0	4.0	56	33.4
y	2X	Funk G-4734	120	92	3.8	3.2	60	32.6
y	2X	O's Gold 2680W	119	91	4.5	3.8	66	30.9
y	2X	Pioneer brand 3187	117	97	3.2	2.5	63	31.6

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

Table 22. Corn: Yield and other characteristics of medium-season hybrids evaluated at Crossville for three years 1982-84.

Color	Cross	Hybrid	3 Yr. Avg. yield	Erect	Grain	Husk	Ear	Grain
			1982-84	plants	quality	cover	ht.	moisture
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	In.	at
								harvest
								%
y	2X	DeKalb-Pfizer DK-747	151	96	3.7	3.3	57	30.7
y	2X	O's Gold 5509	149	94	3.3	4.0	54	30.7
y	2X	Golden Harvest H-2686	149	83	3.0	3.5	58	31.4
y	2X	McCurdy 8150	147	85	3.0	3.0	61	28.0
y	2X	Golden Harvest H-2680	146	94	3.7	4.0	55	30.9
y	2X	RA 1502	146	96	3.7	3.2	54	26.9
y	2X	Pioneer brand 3184	146	98	3.7	4.8	52	28.8
y	2X	Coker 21	145	95	3.7	3.7	57	30.0
y	2X	Pioneer brand 3320	145	92	2.3	3.5	53	26.1
y	2X	RA 1604	145	96	3.7	3.8	56	30.5
y	2X	Pioneer brand 3369A	145	85	3.3	3.7	52	24.5
y	2X	DeKalb-Pfizer XL71	143	96	3.0	3.8	54	27.6
y	M2X	Funk G-4733	142	95	3.2	3.0	58	29.0
y	2X	Pioneer brand 3147	142	85	4.4	4.0	58	30.5
y	2X	Coker 19A	142	91	3.2	3.5	56	27.2
y	2X	Asgrow RX777	141	78	2.7	3.7	52	23.6
y	2X	O's Gold 2680W	137	92	4.0	3.5	62	29.1
y	2X	N.K. PX79	134	94	3.7	4.5	53	25.4
y	2X	FFR 848C	132	87	2.8	3.0	61	27.3
y	2X	Pioneer brand 3187	131	98	3.0	2.5	60	29.3

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