



11-1982

Performance of Corn Hybrids in 1982

University of Tennessee Agricultural Experiment Station

Charles R. Graves

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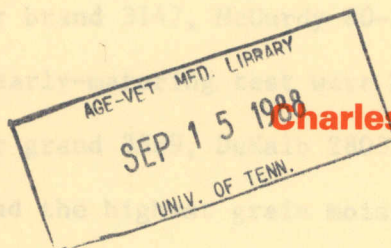
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Performance of Corn Hybrids in 1982

1982

RR No. 82-13

November, 1982



Charles R. Graves



Department of Plant and Soil Science

PERFORMANCE OF CORN HYBRIDS IN 1982^{1/}

Charles R. Graves^{2/}

The 1982 medium-season state corn hybrid tests were conducted at seven locations, and full-season and early-maturing at four locations. No data are reported for the medium-season test at Milan due to damage from a severe flood. The tests at Ames Plantation, Jackson and Martin were harvested with a picker-sheller. All other tests were harvested by hand. The growing season was good at most locations in 1982. Spring Hill and Greeneville yields were reduced due to dry weather during the growing season.

The leading hybrids in 1982 in the medium-season test were Pioneer brand 3147 (a full-season hybrid included as a check), Pioneer brand 3320, DeKalb 28012, Pioneer brand 3184, DeKalb EX7979 and McCurdy 8150.

The leading hybrids in the full-season test were Pioneer brand 3165, Pioneer brand 3160, DeKalb 29014, Pioneer brand 3147, McCurdy 80-72 and Funk G-4740.

The leading hybrids in the early-maturing test were McCurdy 81-82, McCurdy 84aa, Pioneer brand 3358, Pioneer brand 3389, DeKalb 28035 and O's Gold 2570. McCurdy 81-82 and McCurdy 84aa had the highest grain moisture at harvest and should have been evaluated in the medium season tests.

The highest yielding varieties evaluated under virus conditions were Pioneer brand 3160, Pioneer brand 3147, DeKalb XL72BB, FFR 848C, DeKalb 28012 and FFR 955C.

The grain of hybrids grown at Knoxville is being analyzed for crude protein by the UT forage testing lab in Nashville. These data will be reported in a later publication.

^{1/} These results will be included in the 1982 Bulletin, "Performance of Field Crop Varieties", which will be available in 1983.

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

The Recommended Corn Hybrids for 1983 are as Follows:

Maturity Group	Grain Color	Hybrid	Tolerance to Corn Virus Complex	Erect Plants %	Yield Bu/A
Early-Season	Yellow	O's Gold 3344	Med	93	126
		Funk G-4507A	Low	95	117
		FFR 744C	Low	96	113
		P.A.G. 333	Low	--	---
		FFR 717C ^{3/}	Med-High	96	112
Medium-Season	Yellow	Pioneer brand 3320	Low	99	128
		Pioneer brand 3184	Med-Low	100	127
		Pioneer brand 3369A	Low	100	125
		McCurdy 8150	Low	98	125
		McCurdy 7978	Med	98	123
		RA 1502	Low	97	123
		O's Gold SX5509	Low	98	122
		RA 1604	Low	96	122
		DeKalb XL72BB	Med-High	99	118
		DeKalb XL80 ^{2/}	Low	--	---
		DeKalb XL72B ^{3/}	High	--	---
		N.K. PX79	Med-Low	--	---
		P.A.G. SX17A	Med	--	---
		Zimmerman Z-24Y	Low	--	---
		McCurdy 84aa	Low	--	---
	White	DeKalb XL390B	Low	95	127
Full-Season	Yellow	Pioneer brand 3147	Med-High	97	140
		Funk G-4740	Med	99	139
		Pioneer brand 3160	Med-High	99	138
		Funk G-4848-2 ^{2/}	Med	--	---
		FFR 955C	Med-High	97	130
		Golden Harvest H-2775A	Low	95	127
		DeKalb XL394	High	99	126
		N.K. PX723 ^{2/}	Med-High	--	---
	White	Zimmerman Z-11W	Med-High	97	131
		Zimmerman Z-52W	Med-High	97	127
		Golden Harvest H-2660W	Med	97	127
		RA 2602W	Med	97	122
		FFR 929W	Med	97	122
		Princeton SX910	Med-High	97	121
		Asgrow RX962W	Low	--	---
		Funk G-4741-1 ^{2/}	Med	--	---

^{1/} Hybrids rated lower than medium-high are not recommended under heavy virus conditions.

^{2/} Present plans indicate that this hybrid will not be recommended after this year.

^{3/} Recommended only under virus conditions.

Table 1. Corn: Yield of 40 medium-season hybrids evaluated at five locations in 1982.

Color	Cross	Hybrid	Avg.	Greene- ^{1/} ville	Knox- ^{2/} ville	Spring- ^{3/} field	Spring Hill	Martin- ^{5/}
Bushels per acre								
y	2X	Pioneer brand 3147	135	94	171	161	104	146
y	2X	Pioneer brand 3320	132	103	166	154	102	134
y	2X	DeKalb 28012 <u>6/</u>	126	83	154	150	98	143
y	2X	Pioneer brand 3184	125	94	161	150	98	123
y	2X	DeKalb EX7979	124	81	170	158	90	123
y	2X	McCurdy 8150	124	86	159	140	95	141
y	2X	Coker 21	123	81	156	162	89	129
y	2X	Stauffer S8500	123	97	151	133	98	136
y	2X	DeKalb XL71	122	93	138	134	88	159
y	M2X	Funk G-4733	122	83	159	147	95	126
y	2X	USS 1515	122	92	134	141	98	144
w	3X	O's Gold 2680W	122	60	163	171	92	123
y	2X	DeKalb 28010 <u>7/</u>	121	80	159	140	99	126
y	M2X	Funk EX29092	121	88	164	133	95	123
y	2X	McCurdy 7978	120	91	147	143	99	120
y	2X	N.K. PX79	120	84	143	143	101	128
y	2X	FFR 848C	120	73	147	151	95	132
y	2X	RA 1502	120	89	142	124	84	159
y	2X	O's Gold 5509	119	92	157	154	78	114
y	2X	Pioneer brand 3369A	118	84	133	140	88	147
y	2X	RA 1604	118	82	161	134	89	122
w	3X	DeKalb XL390B	117	68	158	147	85	127
y	2X	Zimmerman Z-24Y	117	89	157	122	91	124
y	M2X	Pioneer brand 3187 <u>8/</u>	116	78	148	142	83	128
y	2X	T.E. 6995	114	79	117	145	88	140
y	2X	Golden Harvest H-2630	114	87	147	142	83	109
y	2X	O's Gold 5291	114	85	136	134	85	129
y	2X	Golden Harvest H-2680	113	80	153	137	69	126
y	2X	Trojan TXS115A	113	79	133	134	87	132
y	2X	Asgrow RX777	112	78	143	130	81	129
w	M3X	Funk G-4779W	111	73	158	132	89	104
y	3X	DeKalb XL72BB	111	73	153	114	83	131
y	2X	Golden Harvest H-2686	110	64	157	134	76	120
y	M2X	USS 1516	109	80	140	135	73	117
y	M2X	Coker 19A	108	87	126	136	77	113
y	2X	Funk G-4525A	106	73	131	128	76	122
y	2X	N.K. PX74	104	81	123	129	79	110
y	M2X	Pioneer brand 3328	104	84	119	110	88	120
y	M2X	Funk G-4606	100	66	125	117	68	125
y	2X	T.E. 6945	100	57	134	119	78	110
L.S.D. (.05)			9.6	16.4	13.3	25.6	17.1	N.S.
C.V. %			13.2	14.4	6.5	15.8	13.9	17.0
Avg.			116.7	81.6	147.2	138.8	87.9	127.9

Hermitage and Lindside silt loam (2% to 5% slopes). 8/ Tested in previous years as X7509.
 Sequatchie loam (2% to 5% slopes).
 Huntington silt loam local alluvium (2% to 5% slopes).
 Maury silt loam (2% to 5% slopes).
 Falaya silt loam (2% to 5% slopes).
 Tested in previous years as 18029.
 Tested in previous years as 18030.

Table 2. Corn: Yield and other characteristics of 40 medium-season hybrids evaluated at six locations in 1982.

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 3147	135	98	3.5	3.8	56	23.4
y	2X	Pioneer brand 3320	132	99	2.2	3.4	49	20.2
y	2X	DeKalb 28012	126	99	3.5	3.9	55	21.8
y	2X	Pioneer brand 3184	125	100	3.5	4.6	51	22.8
y	2X	DeKalb EX7979	124	100	3.8	3.1	55	20.9
y	2X	McCurdy 8150	124	97	3.4	2.9	57	23.0
y	2X	Coker 21	123	98	3.9	3.2	54	23.3
y	2X	Stauffer S8500	123	96	3.1	4.0	51	21.0
y	2X	DeKalb XL71	122	98	4.1	4.1	51	20.4
y	M2X	Funk G-4733	122	99	3.0	3.4	53	22.8
y	2X	USS 1515	122	98	3.8	3.9	49	21.2
w	3X	O's Gold 2680W	122	98	3.6	2.9	62	22.0
y	2X	DeKalb 28010	121	98	4.0	3.5	54	21.7
y	M2X	Funk EX29092	121	100	3.2	3.2	54	22.6
y	2X	McCurdy 7978	120	98	2.9	3.5	55	21.2
y	2X	N.K. PX79	120	100	4.5	3.5	52	19.4
y	2X	FFR 848C	120	98	3.0	3.1	58	20.3
y	2X	RA 1502	120	97	3.6	4.0	50	20.7
y	2X	O's Gold 5509	119	97	3.9	3.6	53	22.7
y	2X	Pioneer brand 3369A	118	100	3.6	4.2	48	19.8
y	2X	RA 1604	118	94	3.6	3.2	52	22.2
w	3X	DeKalb XL390B	117	94	4.2	2.9	56	22.1
y	2X	Zimmerman Z-24Y	117	97	2.9	3.5	47	19.6
y	M2X	Pioneer brand 3187	116	99	3.8	3.0	53	20.1
y	2X	T.E. 6995	114	100	4.6	4.1	49	19.6
y	2X	Golden Harvest H-2630	114	99	4.2	3.7	56	20.4
y	2X	O's Gold 5291	114	94	4.3	3.3	46	21.4
y	2X	Golden Harvest H-2680	113	95	4.0	3.4	51	22.6
y	2X	Trojan TXS115A	113	96	4.5	3.9	47	18.9
y	2X	Asgrow RX777	112	96	3.2	3.5	49	19.5
w	M3X	Funk G-4779W	111	98	3.5	2.7	58	22.5
y	3X	DeKalb XL72BB	111	100	3.8	4.3	51	23.1
y	2X	Golden Harvest H-2686	110	94	3.9	3.9	53	23.5
y	M2X	USS 1516	109	94	4.5	3.8	50	20.0
y	M2X	Coker 19A	108	100	4.1	3.3	52	21.1
y	2X	Funk G-4525A	106	94	3.6	3.2	49	17.6
y	2X	N.K. PX74	104	98	4.5	3.6	50	19.2
y	M2X	Pioneer brand 3328	104	99	3.9	3.5	52	20.6
y	M2X	Funk G-4606	100	98	4.6	3.7	48	20.0
y	2X	T.E. 6945	100	97	4.0	3.8	48	18.7
L.S.D. (.05)			9.6	-	-	-	-	-
C.V. %			13.2	-	-	-	-	-
Avg.			116.7	-	-	-	-	-

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

Table 3. Corn: Yield and other characteristics of 40 medium-season hybrids evaluated at Crossville in 1982^{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	RA 1604	193	100	3.0	3.5	54	24.9
y	2X	DeKalb EX7979	189	93	3.0	3.5	54	25.0
y	2X	O's Gold 5509	182	98	3.0	3.0	50	25.0
y	2X	Golden Harvest H-2686	182	96	2.5	4.0	58	29.8
y	2X	Golden Harvest H-2680	180	96	3.0	3.5	52	26.3
y	2X	Coker 21	179	95	3.5	3.5	54	25.1
w	3X	DeKalb XL390B	179	96	3.5	2.5	54	24.2
y	2X	DeKalb 28010	177	100	3.0	4.5	56	24.1
y	2X	Pioneer brand 3147	175	91	3.5	3.5	55	25.4
y	2X	RA 1502	175	100	3.5	2.5	51	23.4
y	2X	Pioneer brand 3320	174	100	2.0	3.5	51	22.5
w	3X	O's Gold 2680W	174	96	3.0	3.0	56	25.4
y	2X	DeKalb XL71	174	100	2.5	3.5	50	25.3
y	2X	Zimmerman Z-24Y	172	100	2.0	3.5	50	23.8
y	M2X	Funk's EX29092	172	98	3.0	3.0	54	26.0
y	2X	Pioneer brand 3184	169	98	3.0	4.5	52	23.8
y	2X	Pioneer brand 3369A	168	98	3.0	3.5	44	22.8
y	M2X	Funk G-4733	164	100	3.0	3.0	56	24.2
y	2X	McCurdy 8150	164	93	3.0	3.0	58	27.9
y	M2X	Coker 19A	164	100	3.0	4.0	52	23.3
y	M2X	Pioneer brand 3187	160	100	2.5	2.5	56	24.8
y	2X	O's Gold 5291	160	100	4.0	3.5	48	24.5
y	2X	Golden Harvest H-2630	157	98	4.0	4.0	54	23.2
w	M3X	Funk G-4779W	157	91	3.0	3.0	58	27.6
y	2X	DeKalb 28012	154	91	3.0	4.0	47	26.7
y	2X	USS 1515	153	98	4.0	3.0	49	23.0
y	M2X	USS 1516	153	93	3.5	3.0	50	25.0
y	2X	Stauffer S8500	151	89	3.5	4.5	52	24.0
y	2X	McCurdy 7978	150	100	3.0	4.5	54	23.0
y	M2X	Funk G-4606	149	96	3.5	3.0	48	23.6
y	2X	Asgrow RX777	148	71	3.0	4.0	50	21.8
y	2X	N.K. PX79	147	98	3.0	4.5	48	21.8
y	3X	DeKalb XL72BB	146	98	4.0	4.5	56	26.2
y	2X	Trojan TXS115A	145	93	3.5	3.5	46	21.8
y	2X	FFR 848C	146	84	2.5	3.0	56	23.8
y	M2X	Pioneer brand 3328	144	100	2.5	3.0	51	25.5
y	2X	T.E. 6945	143	93	3.5	5.0	50	23.9
y	2X	N.K. PX74	141	93	3.5	3.0	50	21.0
y	2X	Funk G-4525A	140	100	3.5	3.0	50	21.0
y	2X	T.E. 6995	139	89	3.5	3.5	48	22.4
L.S.D. (.05)			15.8					
C.V. %			7.0					
Avg.			162.2					

^{1/} Hartsells loam (2% to 5% slopes).

^{2/} Rating was based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 4. Corn: Yield of 24 medium-season hybrids evaluated at five locations for 2 years (1981-82).

Color	Cross	Hybrid	1981-82 Avg.	Greene- ville	Knox- ville	Spring- field	Spring Hill	Martin
Bushels per acre								
y	2X	Pioneer brand 3147	145	145	168	164	115	133
y	2X	Pioneer brand 3184	135	130	159	152	114	121
y	2X	DeKalb EX7979	132	126	154	166	105	110
w	3X	DeKalb XL390B	132	128	160	153	99	119
y	2X	Pioneer brand 3320	132	135	147	146	110	120
y	M2X	Funk G-4733	129	119	148	149	107	124
y	2X	Coker 21	129	116	148	158	99	124
y	2X	Pioneer brand 3369A	129	126	140	142	110	126
y	2X	McCurdy 8150	129	120	147	143	110	124
y	2X	Zimmerman Z-24Y	128	128	154	135	110	116
w	3X	O's Gold 2680W	128	110	156	167	102	105
y	2X	McCurdy 7978	128	125	145	141	113	114
y	2X	RA 1502	127	120	136	134	100	144
y	2X	O's Gold SX5509	127	126	147	159	100	103
y	2X	RA 1604	126	125	149	141	102	112
y	M2X	Pioneer brand 3187	126	121	145	142	105	114
y	2X	Golden Harvest H-2686	125	112	148	152	94	117
y	2X	Golden Harvest H-2680	125	113	148	142	95	125
y	M2X	Coker 19A	123	118	133	137	103	125
y	3X	DeKalb XL72BB	121	117	143	128	102	117
y	2X	T.E. 6995	117	108	119	136	105	118
y	M2X	Funk G-4606	114	107	126	132	91	116
y	2X	Funk G-4525A	114	105	136	133	91	107
y	M2X	Pioneer brand 3328	111	109	123	116	102	106

Table 5. Corn: Yield and other characteristics of 24 medium-season hybrids evaluated at five locations for 2 years (1981-82).

Color	Cross	Hybrid	1981-82 Avg.	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Ear ht. in.	Grain moistur at harvest %
y	2X	Pioneer brand 3147	145	98	4.2	4.1	57	21.4
y	2X	Pioneer brand 3184	135	100	3.6	4.6	50	21.2
y	2X	DeKalb EX7979	132	99	4.2	3.1	55	19.6
w	3X	DeKalb XL390B	132	96	4.2	3.0	58	20.6
y	2X	Pioneer brand 3320	132	98	2.4	3.4	50	19.2
y	M2X	Funk G-4733	129	99	2.8	3.4	54	19.6
y	2X	Coker 21	129	99	3.9	3.4	53	21.4
y	2X	Pioneer brand 3369A	129	100	3.1	4.4	50	18.4
y	2X	McCurdy 8150	129	98	3.5	3.0	58	21.2
y	2X	Zimmerman Z-24Y	128	97	2.8	3.8	50	18.5
w	3X	O's Gold 2680W	128	99	3.0	2.9	63	21.2
y	2X	McCurdy 7978	128	97	3.0	3.7	56	19.4
y	2X	RA 1502	127	98	3.9	4.0	51	19.5
y	2X	O's Gold SX5509	127	98	3.8	3.4	54	21.1
y	2X	RA 1604	126	96	4.0	3.4	52	21.0
y	M2X	Pioneer brand 3187	126	98	3.2	3.4	55	19.2
y	2X	Golden Harvest H-2686	125	97	3.8	4.2	55	21.6
y	2X	Golden Harvest H-2680	125	96	4.0	3.4	51	21.2
y	M2X	Coker 19A	123	100	4.1	3.5	53	21.1
y	3X	DeKalb XL72BB	121	99	3.9	4.6	53	20.7
y	2X	T.E. 6995	117	98	4.7	4.4	51	18.0
y	M2X	Funk G-4606	114	99	4.4	3.9	50	18.5
y	2X	Funk G-4525A	114	95	3.4	3.0	50	17.5
y	M2X	Pioneer brand 3328	111	98	3.9	3.6	52	20.6

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

Table 6. Corn: Yield of 14 medium-season hybrids evaluated at four locations for 3 years (1980-82).

Color	Cross	Hybrid	1980-82 Avg.	Greene- ville	Knox- ville	Spring- field	Martin
Bushels per acre							
y	2X	Pioneer brand 3147	142	127	152	161	128
y	2X	Pioneer brand 3320	128	118	139	141	116
y	2X	Pioneer brand 3184	127	113	140	143	114
w	3X	DeKalb XL390B	127	104	141	153	109
y	2X	Pioneer brand 3369A	125	110	131	139	120
y	2X	McCurdy 8150	125	107	134	140	118
y	2X	McCurdy 7978	123	110	132	138	113
y	2X	RA 1502	123	105	126	130	130
y	2X	O's Gold SX5509	122	107	133	148	101
y	2X	RA 1604	122	111	134	132	112
y	3X	DeKalb XL72BB	118	105	133	125	110
y	2X	T.E. 6995	114	96	114	132	116
y	M2X	Funk G-4606	112	95	116	129	107
y	2X	Funk G-4525A	110	95	124	123	98

Table 7. Corn: Yield and other characteristics of 14 medium-season hybrids evaluated at four locations for 3 years (1980-82).

Color	Cross	Hybrid	1980-82 Avg. Yield Bu/A	Erect plants %	Quality Rating ^{1/}	Husk Cover Rating ^{1/}	Ear ht. in.	Grain moisture at harvest %
y	2X	Pioneer brand 3147	142	97	4.1	4.0	56	20.4
y	2X	Pioneer brand 3320	128	99	2.5	3.2	48	18.9
y	2X	Pioneer brand 3184	127	100	3.3	4.0	48	20.4
w	3X	DeKalb XL390B	127	95	4.4	2.8	57	20.0
y	2X	Pioneer brand 3369A	125	100	3.0	4.2	49	17.7
y	2X	McCurdy 8150	125	98	3.3	2.6	56	20.5
y	2X	McCurdy 7978	123	98	3.0	3.4	54	19.0
y	2X	RA 1502	123	97	3.7	3.6	49	19.1
y	2X	O's Gold SX5509	122	98	4.1	3.2	51	20.5
y	2X	RA 1604	122	96	4.2	3.3	50	20.4
y	3X	DeKalb XL72BB	118	99	3.9	4.3	51	20.2
y	2X	T.E. 6995	114	97	4.6	4.2	49	17.2
y	M2X	Funk G-4606	112	97	4.5	4.0	48	17.7
y	2X	Funk G-4525A	110	96	3.5	3.0	47	16.6

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

Table 8. Corn: Yield of 42 full-season hybrids evaluated at four locations in 1982.

Color	Cross	Hybrid	Avg.	Knox ^{1/} ville	Spring ^{2/} Hill	Jackson ^{3/}	Ames ^{4/} Plantation
				Bushels per acre			
y	2X	Pioneer brand 3165	148	181	127	143	142
y	M2X	Pioneer brand 3160	138	175	109	149	125
y	2X	DeKalb 29014 ^{5/}	134	169	100	151	114
y	M2X	Pioneer brand 3147	133	157	105	140	125
y	2X	McCurdy 80-72	132	164	96	148	123
y	M2X	Funk G-4740	131	157	107	136	123
y	2X	DeKalb EX8989 ^{6/}	130	163	103	146	113
w	2X	DeKalb 24301 ^{7/}	128	161	92	153	106
w	2X	Zimmerman Z-11W	127	164	100	146	98
w	M2X	Stauffer S8820W	124	168	102	137	100
w	2X	Asgrow RX962W	124	171	90	125	106
y	3X	N.K. PX715	124	147	100	140	103
w	2X	Zimmerman Z-52W	122	161	99	131	97
w	2X	Golden Harvest H-2660W	122	157	90	133	106
y	3X	DeKalb XL394	121	155	92	138	103
y	2X	N.K. PX95	121	167	94	139	84
y	2X	Golden Harvest H-2775A	120	152	85	132	113
y	2X	Super Crost 6762	121	150	96	130	103
w	M2X	RA X9609W	120	155	94	126	103
y	2X	USS 2020	120	153	85	141	99
w	3X	RA 3605W	119	154	98	127	94
w	3X	FFR 929W	119	160	88	135	94
y	M2X	FFR 955C	119	162	95	132	96
y	M2X	Super Crost 7795	119	144	95	136	110
w	2X	Pioneer brand 519	119	147	96	138	98
w	SP2X	Princeton SP936	118	156	94	132	92
y	3X	Golden Harvest H-2695	118	154	96	123	93
y	2X	AgriGold A-6910	117	142	90	131	108
w		TR 2051	117	164	84	124	96
y	2X	McCurdy 8230	117	155	96	119	104
y	2X	FFR 905C	116	159	83	125	98
w	2X	Princeton SX910	116	158	84	130	99
w	M2X	RA 2602W	116	159	91	130	90
y	2X	Gold Kist 925	116	145	96	126	97
y	2X	Super Crost 7801	116	154	84	131	97
y	2X	Trojan T1230	114	169	75	133	85
y	2X	Cargill 951	114	130	81	143	99
y	2X	Princeton SX870	113	153	84	126	94
y	3X	N.K. PX707	113	142	90	128	96
y	2X	Coker 22	110	151	72	127	92
y	2X	Princeton SX860	107	132	74	118	103
y	2X	T.E. 6995A	107	130	98	112	84
L.S.D. (.05)			9.3	15.2	17.4	N.S.	19.5
C.V. %			11.1	7.0	13.4	13.3	13.6
Avg.			121.0	155.8	93.1	133.6	102.5

^{1/} Sequatchie loam (2% to 5% slopes).

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

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

^{5/} Tested in previous years as 19030.

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

^{6/} Tested in previous years as 19010.

^{7/} Tested in previous years as 18317.

Table 9. Corn: Yield and other characteristics of 42 full-season hybrids evaluated at four locations in 1982.

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	99	2.2	3.6	55	23.7
y	M2X	Pioneer brand 3160	138	100	2.0	3.2	52	22.7
y	2X	DeKalb 29014	134	99	4.0	4.2	60	26.2
y	M2X	Pioneer brand 3147	133	98	4.2	3.6	54	26.3
y	2X	McCurdy 80-72	132	99	2.8	3.6	58	25.6
y	M2X	Funk G-4740	131	99	3.0	4.2	47	23.2
y	2X	DeKalb EX8989	130	99	3.8	4.2	56	26.0
w	2X	DeKalb 24301	128	99	3.2	3.0	50	22.4
w	2X	Zimmerman Z-11W	127	97	3.0	2.4	59	23.9
w	M2X	Stauffer S8820W	124	97	3.5	2.6	57	25.4
w	2X	Asgrow RX962W	124	99	3.2	3.0	55	24.8
y	3X	N.K. PX715	124	98	5.2	4.4	56	23.2
w	2X	Zimmerman Z-52W	122	98	3.5	3.0	59	24.6
w	2X	Golden Harvest H-2660W	122	97	3.0	3.0	56	25.0
y	3X	DeKalb XL394	121	98	2.8	3.0	60	27.1
y	2X	N.K. PX95	121	98	3.5	3.6	57	25.3
y	2X	Golden Harvest H-2775A	120	93	3.5	3.2	48	22.7
y	2X	Super Crost 6762	121	97	3.5	3.2	50	23.9
w	M2X	RA X9609W	120	96	3.2	3.2	52	26.4
y	2X	USS 2020	120	96	4.0	3.2	50	25.3
w	3X	RA 3605W	119	96	3.5	2.6	55	25.5
w	3X	FFR 929W	119	96	4.0	2.8	59	23.3
y	M2X	FFR 955C	119	99	2.2	4.0	56	24.3
y	M2X	Super Crost 7795	119	99	3.0	3.6	55	23.1
w	2X	Pioneer brand 519	119	99	2.8	1.8	57	21.0
w	SP2X	Princeton SP936	118	99	3.8	3.6	60	26.3
y	3X	Golden Harvest H-2695	118	96	3.8	3.4	50	23.9
y	2X	AgriGold A-6910	117	96	4.0	4.2	49	22.5
w		TR 2051	117	99	3.0	2.4	58	23.9
y	2X	McCurdy 8230	117	96	2.8	3.2	57	26.9
y	2X	FFR 905C	116	97	4.5	3.8	52	25.2
w	2X	Princeton SX910	116	96	3.0	2.6	54	25.1
w	M2X	RA 2602W	116	98	3.5	3.0	57	24.4
y	2X	Gold Kist 925	116	93	4.2	4.2	53	25.0
y	2X	Super Crost 7801	116	98	3.5	3.2	51	25.1
y	2X	Trojan T1230	114	96	4.2	3.6	52	25.2
y	2X	Cargill 951	114	99	4.2	4.2	51	19.7
y	2X	Princeton SX870	113	96	4.2	3.6	51	25.1
y	3X	N. K. PX707	113	96	4.0	4.2	54	23.2
y	2X	Coker 22	110	94	4.0	3.2	50	24.1
y	2X	Princeton SX860	107	97	4.2	5.0	50	21.2
y	2X	T.E. 6995A	107	100	5.2	4.2	49	19.8
		L.S.D. (.05)	9.3					
		C.V. %	11.1					
		Avg.	121.0					

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

Table 10. Corn: Yield of 28 full-season hybrids evaluated at four locations for 2 years (1981-82).

Color	Cross	Hybrid	1981-82	Knox-	Spring	Ames	
			Avg.	ville	Hill	Jackson	Plantation
Bushels per acre							
y	2X	Pioneer brand 3147	140	164	119	143	133
y	M2X	Funk G-4740	139	154	118	142	138
y	M2X	Pioneer brand 3160	138	167	123	138	122
y	2X	DeKalb EX8989	137	159	114	139	136
y	2X	DeKalb 29014	134	156	115	142	124
w	2X	Zimmerman Z-11W	131	167	111	139	108
y	2X	Super Crost 6762	130	154	116	124	127
y	M2X	FFR 955C	130	165	103	131	120
y	M2X	Super Crost 7795	127	148	114	127	121
w	2X	Zimmerman Z-52W	127	158	101	134	115
y	2X	Golden Harvest H-2775A	127	156	102	128	122
w	2X	Golden Harvest H-2660W	127	159	104	134	111
y	3X	DeKalb XL394	126	148	110	134	111
w	SP2X	Princeton SP936	124	158	104	126	110
y	2X	McCurdy 8230	124	158	109	116	111
w	M2X	RA 2602W	122	161	104	128	95
w	3X	FFR 929W	122	151	103	128	105
w	3X	RA 3605W	122	151	107	126	104
y	2X	FFR 905C	122	151	94	124	117
w	2X	Princeton SX910	121	158	97	132	99
w	2X	Pioneer brand 519	121	139	104	127	112
y	2X	Gold Kist 925	120	153	98	127	104
y	2X	USS 2020	120	150	93	134	105
y	2X	Princeton SX870	120	153	96	127	106
y	2X	Trojan T1230	119	162	88	126	101
y	2X	Super Crost 9801	119	147	97	122	109
y	2X	T.E. 6995A	118	136	110	118	109
y	2X	Coker 22	113	145	86	121	101

Table 11. Corn: Yield and other characteristics of 28 full-season hybrids evaluated at four locations for 2 years (1981-82).

Color	Cross	Hybrid	1981-82	Erect plants %	Quality Rating ^{1/}	Husk cover Rating ^{1/}	Plant ht. in.	Grain
			avg. yield Bu/A					moisture at harvest %
y	2X	Pioneer brand 3147	140	97	4.1	3.9	49	21.8
y	M2X	Funk G-4740	139	99	3.2	4.6	48	20.2
y	M2X	Pioneer brand 3160	138	99	2.0	3.0	54	20.2
y	2X	DeKalb EX8989	137	98	3.9	4.2	55	22.3
y	2X	DeKalb 29014	134	99	4.2	4.2	61	22.2
w	2X	Zimmerman Z-11W	131	97	2.9	2.6	61	21.0
y	2X	Super Crost 6762	130	97	3.4	3.0	51	20.4
y	M2X	FFR 955C	130	97	2.4	3.8	57	20.7
y	M2X	Super Crost 7795	127	98	3.0	3.2	54	19.4
w	2X	Zimmerman Z-52W	127	97	3.2	3.1	59	21.4
y	2X	Golden Harvest H-2775A	127	95	3.2	3.2	50	20.0
w	2X	Golden Harvest H-2660W	127	97	3.1	2.8	59	21.9
y	3X	DeKalb XL394	126	99	2.8	2.9	62	22.8
w	SP2X	Princeton SP936	124	99	3.6	3.2	60	22.2
y	2X	McCurdy 8230	124	97	2.8	2.8	56	23.2
w	M2X	RA 2602W	122	97	3.2	2.8	58	21.6
w	3X	FFR 929W	122	97	3.6	2.8	58	20.8
w	3X	RA 3605W	122	96	2.8	2.8	58	22.0
y	2X	FFR 905C	122	97	4.4	3.6	53	21.3
w	2X	Princeton SX910	121	97	3.0	2.4	57	22.0
w	2X	Pioneer brand 519	121	98	2.9	1.9	59	19.0
y	2X	Gold Kist 925	120	96	4.4	3.8	54	21.2
y	2X	USS 2020	120	97	4.0	3.0	52	21.4
y	2X	Princeton SX870	120	97	4.1	3.6	52	21.4
y	2X	Trojan T1230	119	97	4.2	3.6	52	21.4
y	2X	Super Crost 9801	119	98	4.0	3.0	53	21.1
y	2X	T.E. 6995A	118	99	5.4	4.2	51	17.6
y	2X	Coker 22	113	96	4.0	3.2	52	20.4

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

Table 12. Corn: Yield of 25 early maturing hybrids evaluated at four locations in 1982.

Color	Cross	Hybrid	Avg.	Knox- <u>1/</u>	Cross- <u>2/</u>	Martin ^{3/}	Ames ^{4/}
				ville	ville	Plantation	
Bushels per acre							
y	2X	McCurdy 81-82	161	168	186	179	112
y	2X	McCurdy 84aa	156	153	187	169	114
y	2X	Pioneer brand 3358	156	157	186	165	116
y	2X	Pioneer brand 3389	156	166	176	166	115
y	2X	DeKalb 28035 <u>5/</u>	153	176	167	159	108
y	2X	O's Gold 2570	153	152	159	172	128
y	2X	DeKalb EX6060	150	154	182	165	99
y	2X	DeKalb 28016 <u>6/</u>	149	158	175	164	100
y	3X	FFR 726C	142	148	152	161	108
y	2X	McCurdy 81-34	142	145	154	165	104
y	2X	AgriGold A-6612	142	143	160	164	101
y	M2X	Funk G-4522	142	147	152	165	103
y	2X	O's Gold 3344	142	142	146	169	110
y	2X	O's Gold 6882	140	142	158	158	102
y	2X	FFR 788C	138	135	163	155	99
y	2X	Funk G-4507A	138	141	141	155	114
y	3X	FFR 799C	137	134	153	151	110
y	2X	Jacques JX180	136	140	138	161	104
y	M2X	FFR 717C	136	155	156	137	95
y	2X	Cargill 921	136	129	154	159	99
y	2X	Coker 19	135	138	128	159	115
y	2X	RA 1501	134	126	139	158	115
w	2X	O's Gold 2560W	134	140	163	134	97
y	2X	Gold Kist 695	131	130	154	150	91
y	2X	FFR 744C	128	126	144	150	94
L.S.D. (.05)			7.3	12.9	14.9	16.1	15.1
C.V. %			7.3	6.2	6.6	7.3	10.1
Avg.			142.6	145.9	158.9	159.7	106.1

- ^{1/} Sequatchie 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).
^{5/} Tested in previous years as 18114.
^{6/} Tested in previous years as 19018.

Table 13. Corn: Yield and other characteristics of 25 early maturing hybrids evaluated at four locations in 1982.

Color	Cross	Hybrid	Yield Bu/A	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Plant ht. in.	Grain moisture at harvest %
y	2X	McCurdy 81-82	161	99	2.8	4.0	53	29.0
y	2X	McCurdy 84aa	156	98	4.0	3.5	53	30.6
y	2X	Pioneer brand 3358	156	100	3.5	5.0	53	26.4
y	2X	Pioneer brand 3389	156	100	3.0	5.5	54	25.1
y	2X	DeKalb 28035	153	96	3.0	4.7	52	27.0
y	2X	O's Gold 2570	153	96	3.0	3.7	47	29.8
y	2X	DeKalb EX6060	150	96	5.0	5.2	51	23.7
y	2X	DeKalb 28016	149	99	3.8	4.5	55	25.8
y	3X	FFR 726C	142	98	5.5	5.5	48	26.2
y	2X	McCurdy 81-34	142	99	2.8	5.3	49	27.3
y	2X	AgriGold A-6612	142	98	2.5	2.8	46	25.5
y	M2X	Funk G-4522	142	99	3.5	4.0	47	26.9
y	2X	O's Gold 3344	142	94	4.0	4.3	50	25.4
y	2X	O's Gold 6882	140	98	4.2	5.2	46	24.8
y	2X	FFR 788C	138	97	4.5	4.7	50	26.6
y	2X	Funk G-4507A	138	94	5.0	4.2	51	26.0
y	3X	FFR 799C	137	98	4.2	4.7	50	26.6
y	2X	Jacques JX180	136	96	4.2	4.5	50	26.0
y	M2X	FFR 717C	136	98	3.5	3.5	54	23.8
y	2X	Cargill 921	136	94	5.5	4.8	46	22.2
y	2X	Coker 19	135	97	4.8	4.2	51	25.0
y	2X	RA 1501	134	92	4.5	4.0	49	26.3
w	2X	O's Gold 2560W	134	93	5.0	4.2	57	28.6
y	2X	Gold Kist 695	131	98	4.5	5.3	43	24.1
y	2X	FFR 744C	128	95	4.8	4.8	50	25.6
L.S.D. (.05)			7.3					
C.V. %			7.3					
Avg.			142.6					

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

Table 14. Corn: Yield of 11 early maturing hybrids evaluated for 2 years (1981-82) at four locations.

Color	Cross	Hybrid	1981-82	Knox-	Cross-	Martin	Ames
			Avg.	ville	ville		Plantation
Bushels per acre							
y	2X	McCurdy 84aa	147	161	170	142	114
y	2X	O's Gold 3344	138	157	140	139	117
y	M2X	Funk G-4522	137	146	146	149	108
y	2X	FFR 788C	135	139	150	143	109
y	2X	O's Gold 6882	135	145	151	141	102
y	3X	FFR 799C	135	137	149	139	113
y	2X	Coker 19	134	143	133	140	120
y	2X	Funk G-4507A	133	140	146	136	108
y	2X	RA 1501	129	135	134	136	112
y	2X	FFR 744C	129	133	142	138	103
y	M2X	FFR 717C	125	147	146	113	96

Table 15. Corn: Yield and other characteristics of 11 early maturing hybrids evaluated for 2 years (1981-82) at four locations.

Color	Cross	Hybrid	1981-82	Erect plants	Grain quality	Husk cover	Ear ht.	Grain
			avg. yield					moisture
			Bu/A	%	Rating ^{1/}	Rating ^{1/}	in.	at harvest
y	2X	McCurdy 84aa	147	96	3.6	3.4	54	25.4
y	2X	O's Gold 3344	138	92	4.0	3.8	52	21.2
y	M2X	Funk G-4522	137	98	3.5	3.8	51	22.6
y	2X	FFR 788C	135	98	4.4	4.1	52	22.2
y	2X	O's Gold 6882	135	97	4.5	5.2	46	21.2
y	3X	FFR 799C	135	98	3.8	4.8	50	22.6
y	2X	Coker 19	134	97	4.5	4.2	51	21.3
y	2X	Funk G-4507A	133	95	4.6	4.0	52	21.8
y	2X	RA 1501	129	93	4.2	3.9	51	22.0
y	2X	FFR 744C	129	96	4.8	4.6	51	21.8
y	M2X	FFR 717C	125	96	3.6	3.6	52	20.4

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

Table 16. Corn: Yield and other characteristics of 7 early maturing hybrids evaluated for 3 years (1980-82) at four locations.

Color	Cross	Hybrid	1980-82	Erect plants %	Grain quality Rating ^{1/}	Husk cover Rating ^{1/}	Ear ht. in.	Grain moisture at harvest
			Avg. yield Bu/A					%
y	2X	McCurdy 84aa	131	95	4.1	3.2	52	23.5
y	2X	O's Gold 3344	126	93	4.2	3.8	50	19.9
y	2X	Funk G-4507A	117	95	4.9	4.2	50	20.7
y	2X	FFR 788C	115	95	4.4	4.1	49	21.1
y	2X	RA 1501	115	94	5.1	3.6	49	20.5
y	2X	FFR 744C	113	96	5.2	4.9	50	20.4
y	M2X	FFR 717C	112	96	3.9	3.4	50	19.2

Table 17. Corn: Yield and other characteristics of 10 hybrids evaluated at Knoxville in 1982.^{1/}

Hybrid	Yield Bu/A	Grain quality Rating ^{2/}	Husk cover Rating ^{2/}	Ear ht. in.	Grain moisture at harvest
					%
Paymaster 9902	173	4.0	4.0	65	23.8
Pioneer brand 3179	170	3.0	4.0	64	23.4
Pioneer brand 3147	167	4.0	3.5	60	25.8
Zimmerman Z-14W	167	2.0	3.5	56	23.8
Paymaster 8990	162	2.0	3.5	54	23.8
Funk Exp. 8006X	155	3.0	3.0	62	23.5
Paymaster 497	150	3.0	4.0	54	22.8
USS 2315	147	3.5	4.0	60	21.6
MFA 6707	138	6.5	5.0	56	21.8
FFR Exp. 14172	133	6.0	4.0	54	23.4
MFA 6708	128	6.5	5.0	52	21.6
L.S.D. (.05)	12.3				
C.V. %	5.6				

^{1/} Sequatchie loam (2% to 5% slopes).

^{2/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 18. Corn: Yield and other characteristics of 29 extra hybrids evaluated at Knoxville in 1982.^{1/}

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 85XA	194	3.0	2.0	57	23.4
y	2X	DeKalb 29027	181	5.5	4.0	72	24.7
w	2X	T161 XMP339	178	3.0	2.5	66	28.8
w	2X	AgriGold A6955W	177	3.5	2.5	61	24.3
y	2X	Pioneer brand 3147	172	5.0	4.0	62	25.6
y	2X	Jacques 247	167	5.0	4.0	57	25.6
w	2X	AgriGold A-6950W	165	3.5	3.5	68	22.7
y	2X	Beck's 90X	165	3.0	5.0	55	23.5
y	2X	Gutwein 2910	159	4.5	4.0	59	25.7
y	2X	McCurdy 81-35	158	3.0	3.5	54	22.8
y	2X	Stauffer S8818	158	5.0	4.0	57	24.0
y	M3X	Funk Exp. 8006X	153	3.0	4.0	63	23.7
y	2X	AgriGold A-6810	153	3.0	5.0	57	23.1
y	2X	N.K. PX9581	153	5.0	3.0	53	23.0
y	2X	Jacques 227	152	6.0	4.5	57	22.6
y	M2X	Gold Kist 875	152	3.5	3.5	58	21.4
y	2X	T.E. 6995A	149	7.5	4.5	59	21.0
y	3X	Asgrow RX864	147	4.0	3.0	54	21.7
y	2X	Gutwein 86	144	6.0	3.0	56	22.4
y	2X	Jacques 8220	144	4.5	3.0	49	23.4
y	2X	Beck's 89X	144	4.0	4.0	60	22.6
y	M2X	Gutwein 2875	143	3.5	3.5	55	23.4
y	2X	T.E. 6998	142	5.5	5.0	60	24.8
y	2X	AgriGold A-830	142	4.0	4.5	59	20.6
y	2X	Zimmerman Z-25Y	142	3.5	3.5	56	23.9
y	3X	Gold Kist 868	141	4.5	3.5	57	23.7
y	2X	N.K. PX9609	138	6.0	4.5	59	23.2
y	2X	AgriGold A-6611	129	5.0	4.5	58	21.3
y	2X	Cargill 967	123	7.5	5.0	60	21.0
L.S.D. (.05)			16.7				
C.V. %			7.7				

^{1/} Sequatchie loam (2% to 5% slopes).

^{2/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 19. Corn: Yield and mean virus reaction of selected hybrids grown in Humphreys County, under virus conditions in 1982^{1/}

Hybrid	Yield Bu/A	Grain quality Rating ^{2/}	Diseased plants %	Virus sev. index	Virus mean sev. index
Pioneer brand 3160	128	3.5	54.0	3.5	2.3
Pioneer brand 3147	124	4.0	39.0	3.6	2.0
DeKalb XL72BB	124	4.0	51.0	3.8	2.6
FFR 848C	123	2.5	50.8	3.4	2.2
DeKalb 28012	121	3.5	49.6	3.9	2.3
FFR 955C	121	3.0	38.9	4.0	2.1
Pioneer brand 3187	118	3.0	43.1	3.8	2.1
DeKalb XL394	117	3.5	37.2	4.3	2.1
DeKalb EX8989	116	3.5	43.3	3.4	2.0
McCurdy 81-34	114	3.0	24.2	3.3	1.5
Funk G-4740	114	4.0	54.7	3.6	2.6
McCurdy 7978	114	3.5	40.6	3.7	2.1
DeKalb XL390B	109	3.5	67.1	3.8	2.8
FFR 929W	109	3.0	51.3	4.0	2.6
Pioneer brand 3369A	107	3.5	66.9	4.0	3.0
FFR 717C	107	4.0	58.3	3.6	2.5
Funk G-4733	105	3.0	65.8	4.4	3.2
Golden Harvest H-2660W	105	3.5	71.5	4.1	3.0
DeKalb XL72B	103	4.0	57.0	3.8	2.6
TR 2051W	102	3.0	63.3	3.7	2.8
Pioneer brand 3368A	101	3.0	68.4	4.3	3.3
Princeton SX910	101	3.5	69.4	4.3	3.3
RA 2602W	97	4.0	71.3	4.0	3.1
Funk G-4525A	97	4.0	62.7	3.8	2.8
Cargill 951	95	4.0	33.0	3.8	1.9
Pioneer brand 3328	93	4.5	58.3	4.1	2.8
Pioneer brand 519	90	3.0	62.0	4.6	2.9
L.S.D. (.05)	14.9	-	17.6	0.6	0.6
C.V. %	9.7	-	23.5	10.6	18.4
Avg.	109.4	-	53.1	3.8	2.5

^{1/} Data obtained in cooperation with D. R. West and H. C. Kincer.

Table 20. Virus ratings of selected medium season hybrids evaluated in Humphreys County, under virus conditions in 1982.

Hybrid	No. of plants	Virus severity	Virus index	Diseased plants %
Stauffer S8500	49	4.3	2.8	55.1
Funk EX29092	62	4.0	2.9	62.9
N.K. PX79	55	3.9	3.1	70.9
RA 1604	50	4.3	3.3	70.0
O's Gold 5291	57	4.8	3.3	61.4
Pioneer brand 3147	57	4.2	3.4	75.4
T.E. 6945	63	4.4	3.4	71.4
Pioneer brand 3320	63	3.9	3.5	87.3
O's Gold 2680W	55	4.6	3.5	70.9
USS 1516	56	4.9	3.5	64.3
USS 1515	45	5.2	3.6	62.2
Asgrow RX777	58	4.8	3.6	69.0
Funk G-4779W	53	4.6	3.7	75.5
Pioneer brand 3184	51	4.3	3.7	82.3
Golden Harvest H-2680	52	4.8	3.8	73.1
McCurdy 8150	50	4.7	3.8	76.0
Zimmerman Z-24Y	55	4.5	3.9	83.6
N.K. PX74	54	5.6	4.2	68.5
Coker 21	56	5.6	4.2	69.6
Golden Harvest H-2630	57	5.7	4.6	75.4
T.E. 6995	45	5.3	4.7	86.7
Funk G-4606	43	5.0	4.7	93.0
Golden Harvest H-2686	48	6.3	5.7	89.6
L.S.D. (.05)		0.9	1.5	28.6
C.V. %		9.0	19.3	18.6
Avg.		4.7	3.8	74.0

Table 21. Virus ratings of selected full-season hybrids evaluated in Humphreys County, under virus conditions in 1982.

Hybrid	No. of plants	Virus severity	Virus index	Diseased plants %
Super Crost 7995	55	4.1	1.9	30.9
Pioneer brand 3147	46	4.1	2.3	41.3
N.K. PX95	51	4.1	2.7	54.9
Princeton SP936	53	3.8	2.9	66.0
Zimmerman Z-11W	54	3.9	3.1	72.2
DeKalb 29014	53	4.1	3.1	69.8
Pioneer brand 3165	54	4.3	3.1	63.0
Golden Harvest H-2695	52	4.5	3.2	63.5
Asgrow RX962W	49	3.9	3.2	77.5
RA 3605W	49	4.5	3.3	65.3
McCurdy 8230	47	4.2	3.3	72.3
Stauffer S880W	51	4.1	3.3	72.5
Zimmerman Z-52W	48	4.3	3.4	72.9
Super Crost 6762	57	4.5	3.4	70.2
FFR 905C	55	4.4	3.4	69.1
T.E. 6995A	51	4.1	3.5	80.4
N.K. PX715	49	4.4	3.6	75.5
Gold Kist 925	47	5.2	3.6	61.7
RAX 9609W	47	4.3	3.6	78.7
Coker 22	48	4.8	3.8	72.9
N.K. PX707	52	4.5	3.9	80.8
USS 2020	60	4.8	3.9	76.7
McCurdy 80-72	50	4.9	4.0	76.0
Super Crost 7801	43	5.1	4.2	79.1
Trojan T1230	49	5.2	4.3	77.6
Agri Gold A-6910	50	4.9	4.3	86.0
Princeton SX860	48	5.6	4.6	77.1
DeKalb 24301	50	5.3	4.6	84.0
L.S.D. (.05)		1.0	1.5	29.1
C.V. %		11.1	21.5	20.2
Avg.		4.5	3.5	70.2

Table 22. Virus ratings of preliminary hybrids evaluated in
Humphreys County, under virus conditions in 1982.

Hybrid	No. of plants	Virus severity	Virus index	Diseased plants %
Pioneer brand 3147	53	4.0	2.3	41.5
Gold Kist 875	55	3.6	2.3	52.7
McCurdy 81-35	55	3.8	2.4	50.9
T161 x MP339	54	3.5	2.6	64.8
Agri Gold A-6950W	48	4.4	2.8	52.1
Agri Gold A-830	50	3.8	3.1	74.0
Funk Exp 8006X	56	4.0	3.2	71.4
Jacques JX277	48	4.5	3.5	72.9
Agri Gold A-6810	51	4.4	3.5	72.5
DeKalb 29027	60	4.6	3.6	73.3
T.E. 6995A	57	4.4	3.8	82.5
Gutwein 2875	45	4.6	3.8	77.8
Jacques 8220	48	4.7	3.9	79.2
Beck's 90X	49	4.8	3.9	75.5
Agri Gold A-6955W	50	4.5	4.0	86.0
Beck's 85XA	60	4.3	4.0	91.7
Asgrow RX864	56	4.8	4.1	82.1
Stauffer S8818	52	5.1	4.1	76.9
Agri Gold A-6611	48	5.1	4.2	77.1
Beck's 89X	54	5.0	4.3	83.3
Gutwein 86	51	4.5	4.5	100.0
Gutwein 2910	52	5.3	4.5	82.7
Gold Kist 868	56	5.0	4.6	91.1
Jacques JX247	52	5.3	4.6	84.6
Zimmerman Z-25Y	46	5.2	4.6	87.0
N.K. PX9609	50	5.9	4.8	78.0
T.E. 6998	43	5.7	4.8	81.4
N.K. PX9581	46	5.5	5.2	93.5
Cargill 967	53	5.6	5.2	90.6
L.S.D. (.05)		0.9	1.1	26.3
C.V. %		9.2	14.3	16.7
Avg.		4.7	3.9	76.8

Table 23 Virus ratings of selected early maturing hybrids evaluated in Humphreys County, under virus conditions in 1982.

Hybrid	No. of plants	Virus severity	Virus index	Diseased plants %
DeKalb 28035	59	4.2	3.0	64.4
DeKalb 28016	54	4.2	3.3	68.5
O's Gold 3344	60	4.0	3.6	86.7
O's Gold 2560W	55	4.3	3.6	78.2
FFR 726C	70	4.9	3.8	70.0
Agri Gold A-6612	49	5.1	3.8	67.3
Pioneer brand 3358	58	4.3	3.9	86.2
Pioneer brand 3389	57	4.4	4.0	86.0
McCurdy 81-82	47	5.1	4.1	74.5
O's Gold 2570	57	4.8	4.3	84.2
Cargill 921	48	4.6	4.6	100.0
Gold Kist 695	46	5.0	4.8	93.5
DeKalb EX6060	45	5.4	5.1	91.1
O's Gold 6882	49	5.4	5.1	95.9
Jacques JX180	59	5.8	5.2	86.4
L.S.D. (.05)		0.9	1.2	25.7
C.V. %		9.0	13.1	14.6
Avg.		4.8	4.1	81.9

Table 24. Corn: Yield and other characteristics of 3 hybrids evaluated at Springfield in 1982.^{1/}

Hybrid	Yield Bu/A	Grain quality Rating	Husk cover Rating	Plant ht. in.	Grain moisture at harvest %
Pioneer brand 3147	173	3	4.2	63	23.2
USS 2020	167	3	4.5	55	22.2
USS 2315	163	2	4.0	63	20.1
L.S.D. (.05)	N.S.				
C.V. %	5.9				

^{1/} Huntington silt loam, local alluvium (2% to 5% slopes).