

1-1-1980

Mississippi hybrid corn performance trials in 1979

James R. McCluskey

Gene E. Scott

Follow this and additional works at: <https://scholarsjunction.msstate.edu/mafes-bulletins>

Recommended Citation

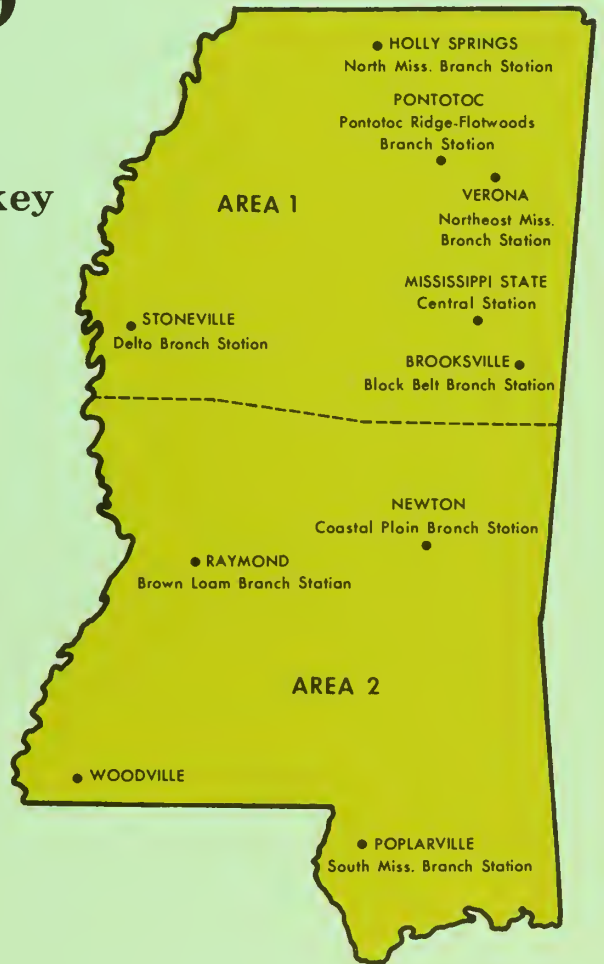
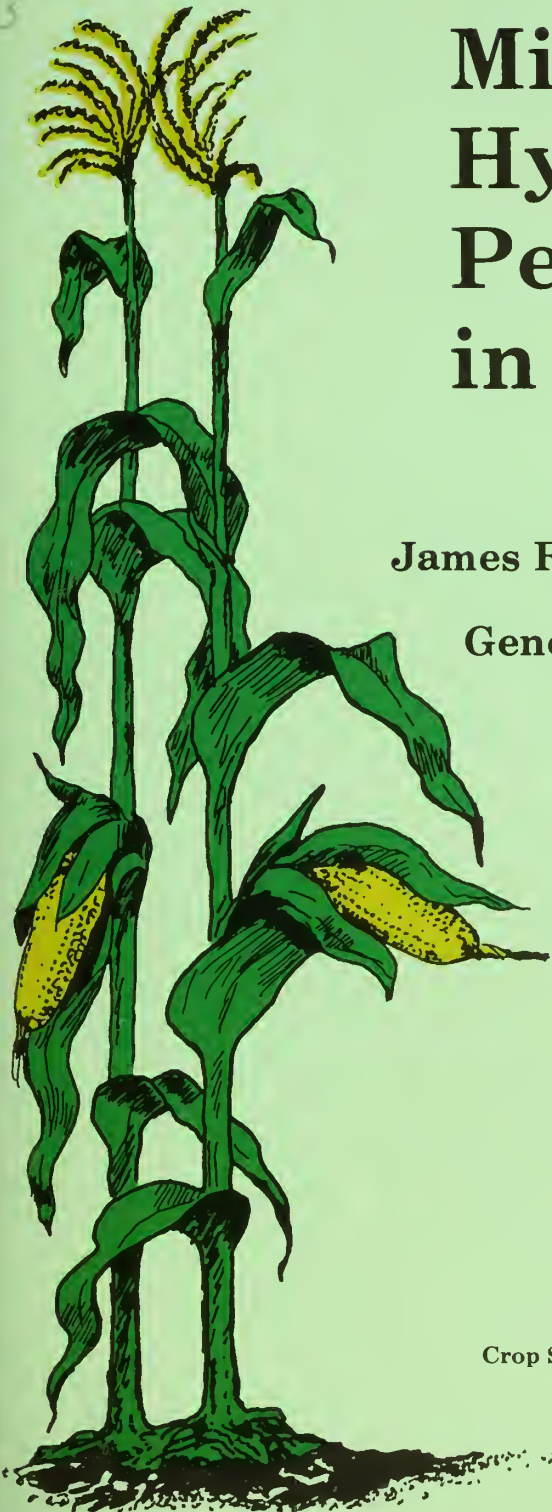
McCluskey, James R. and Scott, Gene E., "Mississippi hybrid corn performance trials in 1979" (1980).
Bulletins. 591.

<https://scholarsjunction.msstate.edu/mafes-bulletins/591>

This Article is brought to you for free and open access by the Mississippi Agricultural and Forestry Experiment Station (MAFES) at Scholars Junction. It has been accepted for inclusion in Bulletins by an authorized administrator of Scholars Junction. For more information, please contact scholcomm@msstate.libanswers.com.

Mississippi Hybrid Corn Performance Trials in 1979

By
James R. McCluskey
and
Gene E. Scott



Crop Science and Engineering Research Laboratory
Delta States Area
AR-SEA
U.S. Department of Agriculture
Mississippi State, MS 39762
in cooperation with



MAFES MISSISSIPPI AGRICULTURAL & FORESTRY EXPERIMENT STATION
R. RODNEY FOIL, DIRECTOR MISSISSIPPI STATE, MS 39762



Mississippi State University
James D. McComas, President Louis N. Wise, Vice President

FEB 22 1980

Authors

James R. McCluskey, research technician
and
Gene E. Scott, supervisory research agronomist
both with
Crop Science and Engineering Research Laboratory
The Delta States Area
AR, SEA, USDA

The following cooperated with the authors in conducting these tests:

B. L. Arnold, superintendent, North Mississippi Branch Station

H. D. Palmertree, superintendent, Pontotoc Ridge-Flatwoods Branch Station

Normie Buehring, agronomist, Northeast Mississippi Branch Station

Theodore C. Miller, agronomist, Delta Branch Station

Robert E. Coats, superintendent, Black Belt Branch Station

J. W. McMillan, agronomist, Coastal Plains Branch Station

Ned C. Edwards, agronomist, Brown Loam Branch Station

Carl Hovermale, agronomist, South Mississippi Branch Station

The test reported in Wilkinson County was on a private farm through the cooperation of **T. O. Whitaker**, RFD 4, Woodville, and **John Dale**, county agent.

Mississippi Hybrid Corn Performance Trials in 1979

Trials are conducted annually in Mississippi to provide farmers, seedsmen, county agents and other interested persons with information on the performance of commercially available corn hybrids. Results of the trials are provided for use by corn producers in selecting hybrids suited to their area. New hybrids may be compared with familiar hybrids and with check hybrids (Dixie 55 and Miss. 6131), which are included in all tests. Seed of Dixie 55 may be commercially available. Seed of Miss. 6131 are not commercially available.

Corn hybrids respond differently to variations in environment, and a given hybrid is not always the

best under all conditions. Therefore, it is suggested that corn producers grow two or more good hybrids each year. This practice also reduces the chances for spread of a disease or insect infestation through the total corn acreage.

The yield of harvestable, good-quality grain (or silage) determines the desirability of corn hybrids. However, attributes other than yield may be extremely important in some instances. For example, resistance to a particular disease should be the prime consideration in areas where the disease occurs. That is, hybrids selected should be from those known to have resistance to diseases found in a geographic area.

All producers and/or distributors of seed corn are eligible to enter hybrids in these tests. The producers designate the hybrids they want entered in each area. Hybrids must be submitted for entry to the Mississippi Agricultural and Forestry Experiment Station by Feb. 15. A nominal fee is charged for each hybrid tested in each area to help defray costs of the test.

Three or more tests were located in each area. Trials were conducted at 10 locations in 1978 (Table 1).

The best guide to the desirability of a hybrid is its performance over a period of years at a number of locations. Therefore, three-year summaries are reported for each area.

Table 1. Location, number of entries and dates of planting and harvest of hybrid corn performance trials in Mississippi, 1979.

County	Location	No. of entries	Planting date	Harvest date
Marshall	Holly Springs	41	May 9	Oct. 1
Pontotoc	Pontotoc	41	April 20	Oct. 2
Lee	Verona	41	May 18	Oct. 3
Noxubee	Brooksville	41	May 2	Sept. 28
Oktibbeha	Mississippi State	41	May 1	Oct. 11
Washington	Stoneville	41	March 28	Sept. 7
Newton	Newton	47	March 29 & April 19	-----
Hinds	Raymond	47	March 20	Aug. 30
Wilkinson	Woodville	47	March 21	Aug. 29
Pearl River	Poplarville	47	March 8	Aug. 9

Materials and Methods

The major changes initiated in the 1978 trials were continued--- i.e., dividing the state into Area I and Area II and testing at populations of 16,000 and 22,000 plants per acre. A randomized complete-block experimental design with three replications at each population level was used at all locations.

Each plot consisted of two rows, 38 or 40 inches apart and 200 inches long. All tests were overplanted and later thinned to either 16,000 or 22,000 plants per acre. Fertilizer was applied by each cooperators as he thought necessary, and weeds were controlled by cultivation and herbicides.

All tests were harvested with a mechanical picker-sheller. Grain harvested from each plot was weighed, and moisture content was determined. All weights were converted to bushels per acre at 15.5% moisture.

Test Results Area 1

Variability within the Stoneville tests and the high plant population test at Brooksville was so great that differences among the hybrids could not be detected. Therefore, these results are not included in this report. The planting at Pontotoc for the 16,000 plants per acre test was not thinned and these results also are not included in this

summary. Root lodging was abnormally high at most locations because of the wind associated with the remnants of hurricane Frederick.

Average yields of the 41 hybrids grown at 16,000 plants per acre were 64, 43, 50 and 74 bu/A at Holly Springs, Verona, Mississippi State and Brooksville, respectively. Average yields over these four locations ranged from 48 to 74 bu/A (Table 2). Root lodging varied from 6 to 43%, and the range in stalk breakage was from 7 to 28%.

The 41 hybrids averaged 56, 43, 56 and 57 bu/A when grown at 22,000 plants per acre at Holly Springs, Verona, Pontotoc and

Mississippi State, respectively. Yields over the four locations ranged from 44 to 75 bu/A (Table 3). Root lodging ranged from 9 to 48%, and stalk lodging ranged from 7 to 33%.

The three-year average yields of the 19 hybrids that have been tested at 16,000 plants/A for three years ranged from 63 to 97 with an average of 83 bu/A (Table 4). The older "check" hybrids (Dixie 55 and Miss. 6131) had the highest percentage of stalk lodging.

The three-year average yields of the 28 hybrids that have been tested for two years at 22,000 plants/A ranged from 63 to 85 bu/A (Table 5).

Test Results Area 2

We planted the test at Newton twice but did not harvest the corn because the wind associated with hurricane Frederick flattened the corn. The high plant population

portion of the test at Woodville was not harvested.

Average yields of the 47 hybrids grown at 16,000 plants/A were 78, 68 and 82 bu/A at Raymond, Poplarville and Woodville, respectively. Average yields over these the locations ranged from 60 to 94 bu/A (Table 6). Root lodging ranged from 3 to 43%, and stalk lodging varied from 4 to 24%.

Data on performance at the 22,000 plant population level were obtained only at Poplarville and Raymond (Table 7). The highest-yielding hybrid produced 86 bu/A

compared to only 52 bu/A for the lowest-yielding entry in the test. Root lodging was higher (7 - 64%) than stalk lodging (4 - 27%).

The three-year average yields of the 28 hybrids that have been tested for three years at 16,000 plants per acre ranged from 56 to 80 bu/A (Table 8).

The three-year average yields of the 32 hybrids that have been tested for two years at 22,000 plants per acre ranged from 60 to 90 bu/A (Table 9). Root and stalk lodging varied from 7 - 45% and 6 - 35% respectively.

Table 2. Summary of performance of 41 hybrids grown at four locations (Holly Springs, Brooksville, Verona and Mississippi State) at 16,000 plants per acre in the 1979 Mississippi hybrid corn performance trials.

Hybrid No.	Brand	Yield bu/A	Lodging		Ear height cm	Days to mid silk* no.	Mois- ture %	Stand %
			root %	stalk %				
3145	Pioneer	73.9	14	8	177	73	20.3	98
MSX84aa	McCurdy	65.7	10	14	101	69	19.0	89
G-4740	Funk's	64.8	12	21	94	75	20.9	97
RA1502	Ring Around	64.2	7	13	102	76	19.6	96
3179	Pioneer	63.7	25	12	107	70	19.5	95
3147	Pioneer	63.6	23	15	107	71	20.4	94
19	Coker	63.0	18	12	98	69	18.5	96
3369A	Pioneer	62.4	19	9	161	71	18.7	95
G-4709	Funk's	61.4	26	11	99	73	20.5	94
G-4776	Funk's	60.5	21	8	110	76	20.1	97
XL394	DeKalb	59.5	29	14	118	76	20.1	99
77-59	McCurdy	59.5	15	12	102	77	20.2	94
9997	Wilstar	59.3	18	14	98	77	20.4	92
G-4848	Funk's	59.3	15	7	99	76	20.9	95
56	Coker	59.0	9	19	111	76	20.1	98
G-4880W	Funk's	58.8	14	11	117	69	20.4	95
XL72b	DeKalb	58.6	72	11	93	75	19.0	95
55	Dixie	58.3	16	23	184	75	20.2	93
T1189	Trojan	58.1	6	16	155	75	19.9	92
XL72AA	DeKalb	58.0	29	8	99	70	19.3	93
PX95	Northrup King	58.0	28	13	114	76	20.4	90
PX87	Northrup King	57.7	9	11	98	73	20.3	92
RA2601	Ring Around	57.5	27	9	96	68	21.3	89
XL390B	DeKalb	57.5	15	11	177	67	19.9	91
22	Coker	56.9	17	10	99	71	19.7	93
G-4574	Funk's	56.6	27	12	102	76	19.1	94
77	Coker	56.3	26	12	124	73	20.8	92
RA3602	Ring Around	56.2	15	14	110	69	19.8	91
G-4611	Funk's	56.0	29	11	102	70	19.7	90
PX707	Northrup King	54.5	28	9	159	77	20.0	98
6131	Miss	54.5	28	28	123	73	19.2	92
USS1010	Agri-Chemicals	54.0	26	10	163	74	19.3	92
PX79	Northrup King	53.8	35	10	102	69	19.1	95
G-4507	Funk's	53.1	31	17	101	70	19.3	95
XL78	DeKalb	52.1	18	17	91	76	19.6	91
G-795W	Funk's	51	21	25	164	68	19.9	97
TXS114	Trojan	50.9	8	22	92	74	17.9	95
PX723	Northrup King	50.4	24	10	109	76	19.7	104
TXS115A	Trojan	50.1	22	15	101	69	18.8	92
TXS119A	Trojan	48.1	15	13	92	70	19.0	99
XL80	DeKalb	47.5	43	9	92	74	19.7	89
Mean		57.7	20	13	116	73	19.8	94

CV = 17.12%

LSD (.05) = 13.1 bu/A

*Data for Mississippi State Only

Table 3. Summary of performance of 41 hybrids grown at four locations (Holly Springs Pontotoc, Mississippi State and Verona) at 22,000 plants per acre in the 1979 Mississippi hybrid corn performance trials.

Hybrid No.	Brand	Yield bu/A	Lodging		Ear height cm	Days to mid silk* no.	Mois- ture %	Stand %
			root %	stalk %				
3145	Pioneer	74.5	10	15	118	72	19.3	92
RA1502	Ring Around	70.2	16	22	104	69	18.5	98
3147	Pioneer	65.6	22	27	112	75	18.8	91
G-4740	Funk's	63.5	19	22	98	73	20.2	92
MSX84aa	McCurdy	63.0	9	18	104	72	19.0	95
22	Coker	62.6	10	13	107	70	19.2	95
3369A	Pioneer	61.1	20	19	105	77	17.6	90
XL394	DeKalb	60.9	25	13	126	77	20.2	92
G-4776	Funk's	60.4	22	16	121	69	18.7	95
XL390B	DeKalb	60.2	18	14	114	73	19.5	87
PX95	Northrup King	59.7	28	13	121	74	18.9	93
G-4709	Funk's	59.6	23	18	107	72	19.0	93
3179	Pioneer	58.4	17	24	113	70	18.5	95
XL72b	DeKalb	57.7	15	17	99	70	18.0	94
TXS115A	Trojan	57.7	23	23	107	70	18.3	93
PX707	Northrup King	57.3	23	14	114	73	18.8	96
T1189	Trojan	57.2	13	32	96	73	18.9	95
PX87	Northrup King	56.7	19	13	101	75	19.5	90
19	Coker	56.7	20	23	105	67	17.2	94
77-59	McCurdy	55.5	33	13	102	77	18.9	95
56	Coker	55.1	15	19	112	70	19.0	92
PX79	Northrup King	54.6	30	11	107	74	18.0	94
PX723	Northrup King	54.2	25	11	114	70	24.0	92
9997	Wilstar	53.6	21	17	100	75	20.2	85
G-4507	Funk's	53.4	24	16	105	75	18.6	90
6131	Miss	53.4	39	28	127	79	19.3	91
G-4574	Funk's	53.3	25	20	108	76	18.5	91
G-4611	Funk's	52.6	23	20	109	77	18.3	91
RA2601	Ring Around	52.6	25	16	102	70	20.5	86
G-795W	Funk's	52.4	28	25	113	69	18.9	91
G-4880W	Funk's	52.2	13	19	115	76	19.6	89
USS1010	Agri-Chemicals	52.1	29	16	105	72	17.9	92
RA3602	Ring Around	51.9	28	16	115	77	19.5	87
XL72AA	DeKalb	51.6	26	17	102	67	18.0	93
55	Dixie	51.1	38	27	136	67	17.8	91
XL78	DeKalb	50.6	13	22	96	77	18.5	93
XL80	DeKalb	49.6	48	9	99	68	19.0	95
77	Coker	49.4	31	14	126	74	19.6	86
TSX114	Trojan	48.9	13	33	102	73	18.7	90
TXS119A	Trojan	46.7	12	18	100	72	18.2	92
G-4848	Funk's	43.9	22	7	98	77	20.1	90
Mean		56.1	22	18	109	73	19.0	92

CV = 19.99%

LSD (.05) = 14.7 bu/A

*Data for Mississippi State Only

Table 4. Three-year (1977-79) average performance of 19 hybrids grown in Area I at 16,000 plants per acre in the Mississippi hybrid corn performance trials.

Hybrid no.	Brand	Yield bu/A	Lodging		Ear height cm	Days to mid silk no.	Mois- ture %	Stand %
			root %	stalk %				
3146	Pioneer	97.2	9	12	127	76	18.2	94
9997	Wilstar	94.8	7	11	116	75	18.4	95
XL394	DeKalb	94.2	11	11	132	77	18.5	99
3145	Pioneer	93.4	5	7	125	74	18.1	93
55	Dixie	89.2	9	27	149	78	18.4	89
G-4880W	Funk's	88.6	6	11	128	78	18.2	99
6131	Miss	87.4	12	36	145	78	17.4	95
77	Coker	85.7	10	14	145	78	18.1	95
22	Coker	84.1	6	8	123	73	16.6	94
G-795W	Funk's	83.3	9	21	123	76	18.1	95
3369A	Pioneer	82.4	6	9	112	73	16.2	95
56	Coker	81.6	4	14	124	77	18.1	96
G-4776	Funk's	80.4	7	8	128	75	17.7	96
XL72b	DeKalb	79.7	4	9	103	73	16.9	92
G-4611	Funk's	76.9	15	11	114	73	17.1	89
TXS114	Trojan	75.4	3	17	115	74	15.7	94
G-4507	Funk's	71.4	10	14	118	73	16.9	97
TXS115A	Trojan	70.1	9	13	115	72	16.6	93
TXS119A	Trojan	62.7	5	11	111	72	16.3	97
Mean		83.1	8	14	124	75	17.5	95

Table 5. Two-year (1978-79) average performance of 28 hybrids grown in Area I at 22,000 plants per acre in the Mississippi hybrid corn performance trials.

Hybrid no.	Brand	Yield bu/A	Lodging		Ear height cm	Days to mid silk no.	Mois- ture %	Stand %
			root %	stalk %				
3145	Pioneer	84.6	6	11	128	76	17.7	96
MSX84aa	McCurdy	82.7	5	17	116	73	17.4	94
3147	Pioneer	80.1	12	19	123	75	17.1	92
9997	Wilstar	79.4	14	15	113	75	18.4	90
RA 1502	Ring Around	79.4	9	20	113	73	17.2	95
XL72b	DeKalb	77.0	9	12	107	73	16.5	97
XL78	DeKalb	76.5	8	16	106	73	17.1	94
G-4776	Funk's	76.4	12	14	131	77	17.4	97
3179	Pioneer	76.0	12	25	125	76	16.9	96
22	Coker	75.8	6	15	116	75	17.2	96
XL394	DeKalb	74.3	21	13	137	77	18.2	94
G-4507	Funk's	74.3	11	16	113	74	17.2	95
TXS115A	Trojan	73.9	16	18	116	73	16.6	92
G-4709	Funk's	73.8	15	16	115	74	17.4	94
3369A	Pioneer	73.7	11	25	115	72	16.5	90
RA 2601	Ring Around	73.1	16	21	119	76	17.9	91
PX95	Northrup King	72.3	17	10	134	76	17.4	92
56	Coker	70.8	8	15	125	77	17.7	95
PX723	Northrup King	70.5	16	15	126	75	19.9	92
G-4574	Funk's	70.1	14	20	119	72	16.8	94
G-4611	Funk's	69.9	15	18	119	75	17.2	93
G-4880W	Funk's	69.6	8	16	126	78	17.8	92
TXS114	Trojan	66.9	7	24	111	75	17.2	91
55	Dixie	65.6	22	25	144	77	16.9	92
G-795W	Funk's	65.6	18	24	124	77	17.6	93
TXS119A	Trojan	65.3	7	16	109	75	16.7	95
6131	Miss	64.7	22	20	133	77	18.1	94
77	Coker	62.7	20	14	142	77	17.9	91
Mean		72.8	13	18	122	75	17.4	94

Table 6. Summary of performance of 47 hybrids grown at three locations (Poplarville, Raymond and Woodville) at 16,000 plants per acre in the 1979 Mississippi hybrid corn performance trials.

Hybrid no.	Brand	Yield bu/A	Lodging		Ear height cm.	Mois- ture %	Stand %
			root %	stalk %			
XL395a	DeKalb	93.6	21	7	109	20.4	101
3147	Pioneer	86.8	14	11	113	17.8	98
UC12052	Paymaster	86.2	33	10	108	20.0	100
UC8951	Paymaster	85.5	5	5	105	18.1	100
MSX84aa	McCurdy	84.5	5	11	104	17.6	98
XA730C	Pioneer	83.8	14	10	100	17.4	100
G-4848	Funk's	83.6	12	5	97	20.8	97
PX95	Northrup King	83.6	9	6	116	18.9	97
3369A	Pioneer	82.6	5	6	92	17.9	99
PX87	Northrup King	82.4	3	8	96	18.2	98
3145	Pioneer	82.3	6	5	104	18.0	99
67-14	McCurdy	82.3	35	15	102	20.0	98
76-25	McCurdy	82.0	14	10	125	20.5	99
RA1502	Ring Around	81.9	1	4	98	17.0	100
G-4740	Funk's	81.5	3	7	89	18.9	99
55	Dixie	80.5	26	24	129	18.4	99
19	Coker	79.2	4	4	98	17.0	98
3040	Pioneer	78.4	19	8	105	20.1	99
X5407	Pioneer	77.8	16	5	93	17.1	99
XL80b	DeKalb	77.7	26	10	94	18.7	98
G-4709	Funk's	77.3	12	10	102	18.0	97
3030	Pioneer	77.2	20	13	104	19.7	100
G-4574	Funk's	77.0	14	9	101	18.0	97
22	Coker	76.8	4	11	97	18.0	97
MSX86A	McCurdy	76.6	5	8	89	18.1	95
XL390B	DeKalb	76.2	9	18	116	18.1	99
77	Coker	74.6	17	9	127	19.1	100
PX707	Northrup King	74.2	16	11	104	16.4	98
RA2601	Ring Around	73.1	19	10	102	19.9	95
T1189	Trojan	72.7	6	10	93	16.8	97
TXS115A	Trojan	72.4	5	5	103	16.6	99
G-4880W	Funk's	71.4	10	7	108	20.0	99
XL394	DeKalb	71.1	30	10	103	18.6	97
G-4776	Funk's	71.1	16	14	103	18.5	100
G-795W	Funk's	69.9	25	13	114	18.4	101
G-5945	Funk's	69.0	29	10	114	19.9	97
G-4949A	Funk's	68.8	22	18	120	19.4	97
TXS114	Trojan	68.3	2	13	97	16.7	98
9997	Wilstar	67.8	28	14	96	19.9	93
RA3602	Ring Around	67.0	9	7	104	17.0	95
XL80	DeKalb	65.9	26	13	92	18.2	98
TXS119A	Trojan	65.7	7	6	92	17.0	99
PX79	Northrup King	64.8	9	3	98	16.6	99
6131	Miss	62.2	43	25	123	18.2	102
PX723	Northrup King	61.1	12	10	101	16.5	92
56	Coker	61.0	13	11	107	19.0	99
USS2010	Agri-Chemicals	60.4	5	9	86	16.9	98
Mean		75.8	15	10	104	18.3	98

CV = 13.62%

LSD(.05) = 14.6 bu/A

Table 7. Summary of performance of 47 hybrids grown at two locations (Poplarville and Raymond) at 22,000 plants per acre in the 1979 Mississippi hybrid corn performance trials.

Hybrid no.	Brand	Yield bu/A	Lodging		Ear Height cm.	Mois- ture %	Stand %
			Root %	Stalk %			
MSX84aa	McCurdy	86.4	9	9	96	17.5	97
G-4740	Funk's	85.9	15	7	93	19.9	99
UC12052	Paymaster	84.9	59	8	102	20.7	99
UC8951	Paymaster	84.2	8	9	100	16.7	99
3147	Pioneer	82.9	16	7	105	18.3	95
19	Coker	82.8	20	8	99	16.6	100
PX87	Northrup King	82.7	9	13	92	18.4	96
3145	Pioneer	81.3	11	11	98	18.7	97
3040	Pioneer	79.5	33	10	105	18.5	99
XL395a	DeKalb	79.1	25	7	102	20.4	96
G-4709	Funk's	77.6	24	9	97	17.2	97
RA1502	Ring Around	77.1	13	15	89	18.1	98
MSX86A	McCurdy	77.0	23	12	102	19.0	98
TXS115A	Trojan	76.8	25	12	98	16.6	100
PX707	Northrup King	75.9	31	15	103	18.7	91
XA730C	Pioneer	75.3	18	9	95	17.7	100
76-25	McCurdy	75.1	30	21	120	19.8	100
RA2601	Ring Around	74.9	36	13	101	19.8	94
T1189	Trojan	74.8	7	25	89	17.8	96
PX95	Northrup King	73.5	13	12	118	18.7	95
9997	Wilstar	73.2	34	11	105	20.7	91
67-14	McCurdy	72.1	55	19	95	20.0	96
XL394	DeKalb	72.1	37	8	104	18.4	95
X5407	Pioneer	70.4	17	11	88	16.2	99
XL80b	DeKalb	70.4	41	12	88	17.6	95
3369A	Pioneer	69.9	10	12	90	16.3	96
TXS114	Trojan	69.3	14	24	89	16.4	100
G-4949A	Funk's	68.7	35	14	105	20.5	99
G-4574	Funk's	68.6	28	19	97	17.4	95
XL390B	DeKalb	68.5	25	18	112	18.8	97
G-4848	Funk's	68.5	30	4	93	20.8	90
PX723	Northrup King	68.1	38	9	107	17.9	97
56	Coker	67.6	14	20	109	18.9	94
22	Coker	66.5	11	17	97	18.6	98
PX79	Northrup King	64.8	25	6	95	17.7	99
G-795W	Funk's	64.0	47	17	104	18.4	95
G-5945	Funk's	64.0	43	13	110	19.6	96
55	Dixie	63.0	33	27	121	19.2	94
3030	Pioneer	62.8	35	10	116	19.8	94
TXS119A	Trojan	62.5	13	15	95	16.9	91
G-4776	Funk's	62.2	19	17	104	18.0	96
6131	Miss	60.2	64	16	129	18.3	95
G-4880W	Funk's	59.7	35	8	100	19.0	96
USS2010	Agri-Chemicals	59.5	15	15	83	18.4	95
77	Coker	59.0	39	11	124	20.7	96
RA3602	Ring Around	57.8	18	13	105	18.3	87
XL80	DeKalb	52.0	68	18	90	17.6	93
Mean		71.5	27	13	101	18.5	96

CV = 14.27%

LSD(.05) = 13.9 bu/A

Table 8. Three-year (1977-79) average performance of 24 hybrids grown in Area II at 16,000 plants per acre in the Mississippi hybrid corn performance trials.


Hybrid no.	Brand	Yield bu/A	Lodging		Ear height cm.	Mois- ture %	Stand %
			root %	stalk %			
UC12052	Paymaster	79.5	14	4	108	20.5	94
3147	Pioneer	73.8	5	13	104	19.0	96
RA1502	Ring Around	72.7	0	3	96	18.3	96
PX95	Northrup King	71.2	3	5	117	20.0	96
3030	Pioneer	71.2	10	9	106	20.2	97
3145	Pioneer	70.2	3	9	103	19.1	95
55	Dixie	69.7	13	21	128	19.7	94
22	Coker	68.7	2	14	99	16.5	94
77	Coker	68.5	7	7	124	19.3	96
RA2601	Ring Around	67.8	10	10	101	20.8	92
3369A	Pioneer	66.9	2	11	87	17.9	95
XL394	DeKalb	66.8	16	8	113	19.6	96
G-4949A	Funk's	65.0	12	9	118	19.4	95
G-5945	Funk's	63.4	16	8	119	19.6	94
TXS114	Trojan	63.3	1	19	98	16.5	93
G-4880W	Funk's	63.3	5	7	106	19.4	97
G-795W	Funk's	62.9	15	16	108	19.2	96
9997	Wilstar	61.6	13	15	99	20.7	94
PX79	Northrup King	60.7	4	9	98	17.0	94
TXS115A	Trojan	60.1	3	12	100	16.0	93
G-4776	Funk's	58.8	6	12	114	17.1	94
56	Coker	57.0	6	12	110	19.5	95
TXS119A	Trojan	56.7	3	9	94	17.4	95
6131	Miss	55.9	18	23	122	19.1	95
MEAN		65.8	8	11	107	18.8	95

Table 9. Two-year (1978-79) average performance of 32 hybrids grown in Area II at 22,000 plants per acre in the Mississippi hybrid corn performance trials.

Hybrid no.	Brand	Yield bu/A	Lodging		Ear height cm.	Mois- ture %	Stand %
			root %	stalk %			
3147	Pioneer	89.8	15	8	107	17.8	91
UC12052	Paymaster	89.2	37	6	111	20.0	92
3145	Pioneer	83.7	7	12	104	17.9	93
3040	Pioneer	83.0	25	9	114	18.7	94
XL394	DeKalb	81.7	27	12	116	18.7	92
22	Coker	81.5	10	18	107	17.8	94
RA1502	Ring Around	80.8	9	14	99	17.3	94
RA2601	Ring Around	80.8	21	21	109	19.3	92
G-4574	Funk's	79.9	18	23	108	17.0	91
67-14	McCurdy	79.8	33	25	102	19.0	89
3369A	Pioneer	79.3	9	18	98	16.3	93
TXS115A	Trojan	78.7	16	16	105	16.3	92
G-4709	Funk's	78.4	21	11	105	17.1	94
TXS114	Trojan	77.2	10	21	99	16.4	93
9997	Wilstar	77.1	26	13	109	19.4	90
3030	Pioneer	76.5	25	10	124	19.6	92
76-25	McCurdy	76.4	17	21	131	19.3	97
PX95	Northrup King	76.2	8	20	125	17.8	91
PX723	Northrup King	76.2	23	17	122	17.3	91
G-4949A	Funk's	73.0	26	12	115	19.4	96
G-795W	Funk's	72.9	28	20	113	17.9	92
G-4776	Funk's	72.1	11	19	117	17.8	93
77	Coker	71.2	24	14	136	19.4	93
RA3602	Ring Around	70.7	10	22	112	17.8	86
55	Dixie	70.2	21	34	129	18.4	91
PX79	Northrup King	70.0	19	12	107	17.1	94
56	Coker	68.2	8	24	118	18.7	91
XL80	DeKalb	66.4	45	13	95	17.0	91
G-4880W	Funk's	64.5	23	10	111	18.8	94
TXS119A	Trojan	63.3	9	18	99	16.6	89
G-5945	Funk's	62.4	32	19	123	18.4	92
6131	Miss	60.1	36	35	136	17.0	91
MEAN		75.5	20	17	113	18.0	92

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, or handicap.

In conformity with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, Dr. T. K. Martin, Vice President, 610 Allen Hall, P. O. Drawer J, Mississippi State, Mississippi 39762, office telephone number 325-3221, has been designated as the responsible employee to coordinate efforts to carry out responsibilities and make investigation of complaints relating to nondiscrimination.

 Lithograph
Central Duplicating
Mississippi State University