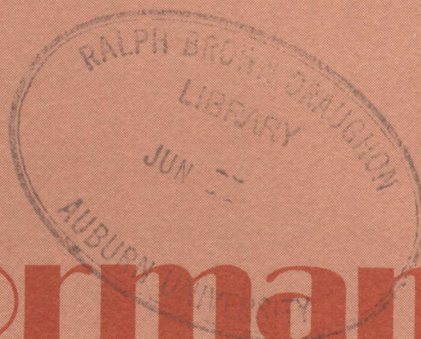


DEPARTMENT OF AGRONOMY & SOILS
AGRICULTURAL EXPERIMENT STATION
R. DENNIS ROUSE, Director

DECEMBER 1975

DEPARTMENTAL SERIES NO. 25
AUBURN UNIVERSITY
AUBURN, ALABAMA

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Performance



of Corn Hybrids

in

Alabama, 1975

TABLE OF CONTENTS

	Page
Introduction	1
Locations and Cultural Practices (Table 1)	4
Northern Alabama	
Three-year Characteristics (Table 2).	5
Two-year Characteristics (Table 3).	6
One-year Characteristics (Table 4).	7
Location Yields and 1-5 Year Averages (Table 5).	8
Central Alabama	
Three-year Characteristics (Table 6).	9
Two-year Characteristics (Table 7).	10
One-year Characteristics (Table 8).	11
Location Yields and 1-5 Year Averages (Table 9)	12
Southern Alabama	
Three-year Characteristics (Table 10)	13
Two-year Characteristics (Table 11)	14
One-year Characteristics (Table 12)	15
Location Yields and 1-5 Year Averages (Table 13).	16
Irrigated Test at Camden	
One-year (Table 14)	17
Two-year (Table 15)	18
Marion Junction	
One-year (Table 16)	19
Two-year (Table 17)	20
Preliminary Tests	
Northern Alabama (Table 18)	21
Central Alabama (Table 19).	23

	Page
Southern Alabama (Table 20)	24
List of Acceptable Hybrids for 1976	25

Performance of Corn Hybrids in Alabama, 1975

David H. Teem^{1/}

Corn performance tests were conducted at 13 locations by the Auburn University Agricultural Experiment Station in 1975. These tests are conducted annually to determine relative production of many hybrids offered for sale and to furnish unbiased information by which growers may choose hybrids. They are designed to permit a comparison of hybrids entered in each test and are not intended for use as an absolute measure of the yielding potential of a hybrid in an area. Careful consideration should be given to all performance characteristics when choosing a hybrid since the proper choice may mean the difference between profit and loss.

Rainfall distribution was good during the 1975 growing season and high yields were obtained in most tests. Yields of more than 100 bushels per acre were obtained at 11 of the 13 locations. Lodging data was not recorded at Auburn, Tallassee, Prattville, and Camp Hill due to wind damage from hurricane Eloise on September 23, 1975.

Location of the tests and cultural practices used are shown in Table 1. Lime and fertilizer were applied in adequate amounts. For weed control either chemical, mechanical, or a combination were used as needed. The experimental design was a split-block with four replications. Yields were adjusted to 15.5 percent moisture and calculated at 56 pounds per bushel. Stalks broken below the ear or leaning more than 45 degrees were considered lodged. Ear rot, earworm damage, size of ear and grain, and luster of grain were considered in rating ear and grain quality. Height of ears was measured from ear base to the ground

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level. Husks were rated by tightness and extension beyond the tip of the ear.

Regional averages for 3, 2, and 1 years in northern Alabama are presented in tables 2, 3, and 4, respectively. Table 5 shows yields by location and regional average yields for 1-5 years in northern Alabama. Similar data are shown for central Alabama in tables 6-9 and for southern Alabama in tables 10-13. The performance of corn hybrids planted in 30-inch rows and irrigated at Camden for 1 and 2 years is shown in tables 14 and 15 respectively. In 1975 this test was furrow irrigated on June 26, July 14, and July 20 with 1.5, 2.0, and 2.0 inches of water respectively. The performance of corn hybrids at the Black Belt Substation for 1 and 2 years is shown in tables 16 and 17 respectively. Maize chlorotic dwarf virus (MCDV) and maize dwarf mosaic virus (MDMV) ratings were made on hybrids in the 1975 test at the Black Belt Substation and are shown in table 16. Ratings were made by Dr. R. T. Gudauskas, Department of Botany and Microbiology.

Results from preliminary tests are shown in tables 18-20. If a hybrid is outstanding in these preliminary tests it is advanced to the regular testing program the following year.

When comparing hybrids, small differences in yield may not be real differences between hybrids but may result from variation in the plots and testing procedures. To aid in determining real differences between hybrids a statistical procedure, analysis of variance, was performed on data from each location. The L.S.D. (least significant difference) is given for yield at each location.

Long term averages are more reliable when choosing a hybrid for an area. Three-year results are considered sufficient to give a

good measure of the performance of hybrids. A composite rating system was used to determine the list of acceptable hybrids. The northern, central or southern Alabama regional average yield of a hybrid was used as its base point. The composite score was obtained by subtracting values for lodging, quality, and height of ears from its yield. The value subtracted for each characteristic was proportional to the numerical value shown for the characteristic in tables 2, 6, and 10. Although those hybrids that have a good record for 2 years in the regular test are included, and noted, on the acceptable list; when possible, data from 3 or more years are used in evaluating the hybrids

All of the acceptable hybrids are not equal in performance.

Some are outstanding in one or more characteristics. Others may not be outstanding in any one characteristic, but possess a satisfactory combination of characteristics. For these reasons, it is suggested that this report be carefully studied before choosing a corn hybrid to plant in 1976.

ACKNOWLEDGMENT

Appreciation is expressed to the following individuals who furnished information for this report: J. T. Eason, J. K. Boseck, R. A. Moore, W. A. Griffey, E. M. Evans, J. W. Langford, F. T. Glaze, L. A. Smith, J. A. Little, E. L. Carden, J. E. Barrett, Jr., and J. G. Starling.

A special thanks is expressed to Mr. Marvin Ruf and Mrs. Sally Bagwell, Research Data Analysis, for the computation and statistical analysis of the data in this report.

Table 1. Location and Cultural Practices in 1975 Tests^{1/}

Location	Plant- ing date	Nitro- gen rate Lb/A	Row width In.	Average Plant Population Thou.
<u>Northern Alabama</u>				
Tennessee Valley Substation (Belle Mina)	4/24	110	42	16
Sand Mountain Substation (Crossville)	4/17	150	42	19
Upper Coastal Plain Substation (Winfield)	5/1	130	40	16
<u>Central Alabama</u>				
Main Station (Auburn)	5/13	120	40	17
Lower Coastal Plain Substation (Camden)				
Irrigated	5/13	150	30	25
Unirrigated	5/14	130	38	21
Piedmont Substation (Camp Hill)	5/28	130	40	16
Prattville Experiment Field (Prattville)	5/7	110	42	15
Plant Breeding Unit (Tallassee)	4/24	135	40	17
Black Belt Substation (Marion Junction)	4/28	120	36	14
<u>Southern Alabama</u>				
Brewton Experiment Field (Brewton)	4/22	120	36	18
Monroeville Experiment Field (Monroeville)	4/17	120	42	16
Wiregrass Substation (Headland)	4/5	140	36	17
Gulf Coast Substation (Fairhope)	4/3	120	38	18

^{1/}Lime, P₂O₅ and K₂O were applied according to soil test recommendations.

Table 2. Some Characteristics of Corn Varieties Tested Three Years in Northern Alabama, 1973-75

Brand name	Hybrid or variety	Yield	Lodged stalks	Quality ^{2/} Rating	Ears	Height	Shelling	Husk ^{2/}
		per acre ^{1/} Bu.			Pct.	per stalk No.		of ears Ft.
Pioneer-----	3147	129	3.8	2.3	1.0	4.2	84.2	2.6
Pioneer-----	3369A	128	3.7	1.9	1.0	3.6	82.6	2.3
McCurdy-----	67-14	125	3.0	1.9	1.0	3.8	80.4	2.1
Pioneer-----	3179	122	5.4	2.1	1.0	4.2	83.3	2.5
Funk's-----	G-4864	117	2.5	2.2	1.0	4.3	82.5	1.6
McCurdy-----	MSX88	115	4.3	2.1	1.0	3.7	82.7	2.1
Funk's-----	G-795W-1	115	10.3	2.5	1.1	4.1	80.5	1.8
Pioneer-----	511A	114	8.3	2.3	1.1	4.2	81.6	1.7
Coker-----	16	114	4.0	2.4	1.0	3.5	84.6	2.8
McNair-----	X300	112	2.5	2.1	1.0	3.7	80.3	1.8
McNair-----	S-338	111	4.0	2.6	1.0	3.9	82.6	2.2
McNair-----	X210	109	5.0	2.2	1.0	3.5	79.7	2.0
Funk's-----	G-4762	108	4.7	2.4	1.0	3.8	84.3	2.1
Funk's-----	G-5757	105	5.0	2.5	1.0	3.7	82.2	2.2
P.A.G.-----	644W	101	5.6	2.4	1.0	4.4	81.1	2.0
-----	Mosby	85	14.8	2.9	1.0	4.0	82.6	2.2

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 3. Some Characteristics of Corn Varieties Tested Two Years in North Alabama, 1974-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Pioneer-----	3147	140	5.1	2.3	1.1	4.2	84.8	2.5
Pioneer-----	3369A	136	4.7	1.9	1.0	3.7	83.0	2.3
McCurdy-----	67-14	132	3.7	2.0	1.0	3.9	80.3	2.1
Pioneer-----	3179	128	6.5	2.2	1.0	4.2	83.0	2.4
Funk's-----	G-4864	125	3.3	2.2	1.0	4.3	82.8	1.6
Funk's-----	G-795W-1	125	12.3	2.6	1.1	4.2	80.8	1.8
McCurdy-----	72-73	125	3.8	2.4	1.0	4.1	80.5	1.8
DeKalb-----	XL80	123	6.5	1.7	1.0	3.8	79.7	2.0
McCurdy-----	MSX88	122	5.7	2.1	1.0	3.8	83.3	2.2
Pioneer-----	511A	121	10.1	2.3	1.1	4.2	82.2	1.5
Coker-----	16	121	4.4	2.5	1.0	3.6	85.0	2.7
McNair-----	S-338	121	4.6	2.8	1.0	3.9	82.9	2.3
McNair-----	X210	121	6.3	2.4	1.0	3.7	79.8	2.1
McNair-----	X300	120	2.7	2.1	1.0	3.7	80.1	1.9
Coker-----	56	119	5.9	2.2	1.1	4.1	81.7	1.9
Funk's-----	G-4762	114	5.9	2.5	1.0	3.9	84.2	2.4
Funk's-----	G-5757	111	5.3	2.5	1.0	3.8	81.8	2.3
P.A.G.-----	644W	107	6.9	2.4	1.0	4.4	80.4	2.0
-----	Mosby	89	16.4	3.0	1.0	3.9	82.1	2.1

^{1/}Yields adjusted to 15.5% moisture and 56 l.b per bushel.

^{2/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 4. Some Characteristics of Corn Varieties Tested in Northern Alabama, 1975

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Pioneer-----	3147	146	6.3	2.1	1.1	4.1	85.5	2.7
Pioneer-----	3369A	139	4.3	1.8	1.0	3.6	84.1	2.1
McCurdy-----	67-14	139	4.2	1.5	1.0	3.7	81.3	2.4
Pioneer-----	3179	138	7.3	1.9	1.0	4.1	83.8	2.4
Funk's-----	G795W-1	137	4.8	2.5	1.2	4.0	80.7	1.7
Funk's-----	G-4864	135	2.6	2.2	1.0	4.0	81.9	1.4
McNair-----	X210	132	8.3	2.3	1.0	3.6	81.1	2.1
Funk's-----	G-4810	130	5.6	1.9	1.1	4.0	79.5	2.6
Pioneer-----	511A	130	6.4	2.2	1.1	4.1	80.7	1.5
McNair-----	X170	130	2.3	2.1	1.0	3.5	84.5	2.9
McCurdy-----	MSX88	130	5.6	2.4	1.1	3.7	85.1	2.2
McCurdy-----	73-8	130	7.9	2.5	1.0	3.6	87.0	2.9
Coker-----	56	129	3.6	1.8	1.1	4.0	80.5	2.1
Coker-----	16	128	4.3	2.3	1.0	3.6	87.2	2.8
Ring Around----	RA 1501	128	3.8	2.3	1.0	3.8	85.1	2.1
McCurdy-----	72-73	126	4.4	2.4	1.1	4.0	80.6	1.6
Funk's-----	G-5757	121	6.1	2.4	1.0	3.7	83.2	2.3
McNair-----	S-338	120	4.8	2.8	1.0	3.8	84.6	2.3
McNair-----	X300	120	3.4	1.9	1.0	3.7	79.3	1.5
Funk's-----	G-4770	118	7.7	2.3	1.0	3.4	84.5	2.7
Ring Around----	RA118	118	8.6	2.4	1.0	3.6	84.5	2.1
DeKalb-----	XL80	117	7.1	1.7	0.9	3.7	80.1	1.8
McNair-----	X194	116	6.0	2.5	1.1	3.7	84.3	2.6
Funk's-----	G-4762	109	7.4	2.6	1.1	3.7	84.8	2.7
P.A.G.-----	644W	108	4.8	2.3	1.0	4.2	78.3	2.1
-----	Mosby	94	18.3	3.1	1.1	3.8	82.5	2.1

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 5. 1975 Yield of Corn Varieties by Location and Regional Averages for 1-5 Years in Northern Alabama^{1/}

Brand name	Hybrid or variety	Belle Mina Bu.	Crossville Bu.	Winfield Bu.	Regional average yield per acre				
					1-yr. 1975 Bu.	2-yr. 1974-75 Bu.	3-yr. 1973-75 Bu.	4-yr. 1972-75 Bu.	5-yr. 1971-75 Bu.
Pioneer-----	3147	157	147	135	146	140	129	127	123
Pioneer-----	3369A	150	143	124	139	136	128	124	120
McCurdy-----	67-14	155	127	134	139	132	125	123	119
Pioneer-----	3179	158	134	124	138	128	122	122	118
Pioneer-----	511A	147	128	115	130	121	114	114	109
Funk's-----	G-795W-1	155	137	117	137	125	115	113	109
Funk's-----	G-4762	121	123	82	109	114	108	107	102
Funk's-----	G-5757	122	128	114	121	111	105	103	100
P.A.G.-----	644W	126	115	83	108	107	101	102	99
-----	Mosby	106	95	82	94	89	85	85	83
McCurdy-----	MSX88	147	130	113	130	122	115	115	
McNair-----	S-338	120	124	115	120	121	111	108	
Funk's-----	G-4864	135	142	129	135	125	117		
Coker-----	16	141	143	101	128	121	114		
McNair-----	X300	130	121	108	120	120	112		
McNair-----	X210	139	140	116	132	121	109		
McCurdy-----	72-73	133	124	121	126	125			
DeKalb-----	XL80	133	125	94	117	123			
Coker-----	56	132	137	118	129	119			
Funk's-----	G-4810	136	130	126	130				
McCurdy-----	73-8	132	145	112	130				
McNair-----	X170	139	147	104	130				
Ring Around---	RA 1501	129	142	114	128				
Ring Around---	RA 118	124	131	98	118				
Funk's-----	G-4770	116	136	103	118				
McNair-----	X194	129	123	94	116				
Test average:		135	131	111					
L.S.D. (.05)		17.0	15.6	17.8	1/Yields adjusted to 15.5% moisture and 56 lb/bu.				
C.V. (%)		9.0	8.5	11.5					

Table 6. Some Characteristics of Corn Varieties Tested Three Years in Central Alabama, 1973-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Pioneer-----	3147	95	5.7	3.0	1.0	3.8	82.0	2.4
Funk's-----	G-795W-1	94	7.0	2.2	1.1	3.7	80.4	1.9
Pioneer-----	511A	92	8.7	2.1	1.1	3.6	80.4	1.9
Pioneer-----	3369A	89	4.4	2.4	1.0	3.2	82.4	2.6
McCurdy-----	67-14	88	4.8	2.0	0.9	3.2	80.2	2.4
Pioneer-----	3009	86	7.5	1.9	0.9	3.9	76.5	1.9
Funk's-----	G-5945	85	7.5	2.0	1.0	4.1	81.5	1.9
Funk's-----	G-4762	84	7.5	2.2	1.0	3.2	83.7	2.2
Funk's-----	G-4864	84	3.1	2.1	0.9	3.8	82.3	1.9
McNair-----	508	83	5.1	2.0	1.2	4.0	80.8	2.1
Coker-----	56	83	6.3	2.1	1.1	3.6	81.2	2.4
PAC-----	751	81	9.9	1.9	1.1	4.2	80.0	1.9
McNair-----	S338	81	8.8	2.6	0.9	3.3	80.8	2.4
Funk's-----	G-4949A	80	6.6	2.1	1.0	4.1	80.9	2.3
Pioneer-----	3030	78	4.4	2.0	1.0	3.8	77.2	1.7
Greenwood-----	45	77	6.5	2.0	1.0	3.5	79.6	2.1
-----	Mosby	59	17.6	2.8	0.9	3.7	80.1	2.4

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 7. Some Characteristics of Corn Varieties Tested Two Years in Central Alabama, 1974-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
McCurdy-----	72-24	102	18.4	2.2	1.1	4.3	83.9	1.9
Coker-----	77	96	4.5	2.0	1.1	3.9	82.1	2.1
Pioneer-----	3147	95	7.1	3.0	1.0	3.6	82.5	2.4
Funk's-----	G-795W-1	95	6.8	2.3	1.1	3.5	80.1	2.1
Pioneer-----	511A	90	8.9	2.1	1.1	3.5	80.3	1.9
Pioneer-----	3369A	89	4.6	2.3	1.0	3.1	82.8	2.6
Pioneer-----	3009	86	6.8	1.9	0.9	3.8	75.6	2.0
McCurdy-----	67-14	85	4.8	2.0	0.9	3.2	79.8	2.4
Funk's-----	G-5945	84	8.7	2.0	1.0	3.8	81.0	1.9
McNair-----	508	84	5.4	2.2	1.1	3.8	80.3	2.1
Coker-----	56	83	6.9	2.1	1.1	3.5	81.4	2.2
Funk's-----	G-4864	83	3.2	2.1	0.9	3.6	82.2	2.1
McNair-----	X300	82	6.5	2.4	0.9	3.1	79.9	2.2
McNair-----	X338	82	9.8	2.5	0.9	3.2	80.7	2.5
Funk's-----	G-4949A	81	7.7	2.0	1.0	3.9	80.1	2.3
Funk's-----	G-4762	81	10.1	2.2	0.9	3.1	83.5	2.3
PAG-----	751	80	10.3	1.9	1.1	4.1	79.4	2.0
Pioneer-----	3030	76	4.2	2.0	1.0	3.6	76.8	1.9
Greenwood-----	45	74	5.7	2.1	1.0	3.3	79.1	2.1
-----	Mosby	57	17.2	2.9	0.9	3.5	80.4	2.4

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 8. Some Characteristics of Corn Varieties Tested in Central Alabama, 1975

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Coker-----	77	116	4.4	1.8	1.3	3.8	84.0	2.0
McCurdy-----	72-24	107	14.3	2.2	1.2	4.4	83.7	2.1
Pioneer-----	3369A	103	2.4	1.8	1.0	3.1	83.5	2.5
Pioneer-----	3147	102	8.5	3.1	1.0	3.6	83.7	2.3
DeKalb-----	XL394	100	3.3	2.0	1.0	3.6	83.8	2.1
McNair-----	X300	99	3.5	1.9	1.0	3.1	81.4	2.1
Funk's-----	G-4810	98	6.3	2.1	1.0	3.6	82.3	2.3
Funk's-----	G-795W-1	97	3.9	2.1	1.2	3.4	81.0	2.1
McCurdy-----	73-53	96	10.2	2.1	1.2	4.2	80.9	2.0
Funk's-----	G-5945	96	12.7	1.8	1.1	3.8	82.2	2.0
Pioneer-----	3009	95	6.1	1.6	0.9	3.7	78.6	2.0
McNair-----	508	95	5.8	2.3	1.2	3.8	82.0	2.1
McCurdy-----	67-14	94	4.7	1.9	1.0	3.1	81.0	2.4
PAG-----	751	93	13.8	1.8	1.2	4.0	80.3	2.0
Pioneer-----	511A	93	7.4	1.9	1.1	3.3	81.3	2.1
Funk's-----	G-4864	92	1.6	1.7	1.0	3.5	83.6	2.1
McNair-----	S338	92	10.6	2.4	1.0	3.0	82.2	2.5
Coker-----	16	92	0.9	2.5	1.0	3.1	83.1	2.3
DeKalb-----	XL80	89	3.8	1.8	0.9	2.7	82.7	2.3
Coker-----	56	89	6.3	2.1	1.1	3.3	82.1	2.2
Funk's-----	G-4949A	88	10.1	1.8	1.0	3.9	81.0	2.4
Coker-----	54	87	8.7	1.7	1.1	3.6	79.9	2.1
PAG-----	644W	86	6.7	2.2	0.9	3.6	81.6	2.0
Pioneer-----	3030	84	3.8	1.8	1.0	3.6	79.0	2.2
Funk's-----	G-4762	83	14.3	2.1	1.0	3.0	84.9	2.3
Greenwood-----	45	81	2.6	1.9	1.0	3.3	80.5	2.3
-----	Mosby	62	10.9	2.8	1.0	3.4	81.0	2.4

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 9. 1975 Yield of Corn Varieties by Location and Regional Averages for 1-5 Years in Central Alabama^{1/}

Hybrid or Brand name	Variety						Regional average yield per acre				
		Auburn	Camden	Camp Hill	Pratt- ville	Talla- ssee	1-yr. 1975	2-yr. 1974-75	3-yr. 1973-75	4-yr. 1972-75	5-yr. 1971-75
		Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	
Pioneer----	3147	113	70	104	112	109	102	95	95	102	104
Funk's-----	G-795W-1	108	76	97	93	112	97	95	94	96	96
Pioneer----	511A	91	75	105	87	106	93	90	92	96	95
Pioneer----	3369A	110	75	113	121	95	103	89	89	92	92
McNair-----	508	66	65	88	111	144	95	84	83	92	92
Funk's-----	G-5945	87	58	111	100	122	96	84	85	89	92
Funk's-----	G-4762	83	66	95	79	94	83	81	84	88	89
Funk's-----	G-4949A	87	65	90	95	101	88	81	80	86	88
P.A.G.-----	751	98	63	93	99	112	93	80	81	87	87
-----	Mosby	64	57	57	67	68	62	57	59	62	63
Pioneer----	3009	95	77	104	83	117	95	86	86	90	
McNair-----	S338	98	69	105	103	86	92	82	81	87	
Pioneer----	3030	85	65	85	83	103	84	76	78	84	
Greenwood--	45	83	61	76	76	111	81	74	77	82	
Funk's-----	4864	108	59	93	104	99	92	83	84		
Coker-----	56	92	68	79	96	109	89	83	83		
McCurdy----	72-24	113	90	115	102	114	107	102			
Coker-----	77	99	84	120	119	160	116	96			
McNair-----	X300	102	77	106	104	109	99	82			
DeKalb-----	XL394	102	69	96	114	118	100				
Funk's-----	G-4810	101	68	108	101	114	98				
McCurdy----	73-53	79	77	99	101	123	96				
McCurdy----	67-14	108	67	97	113	86	94				
Coker-----	16	110	77	96	90	87	92				
DeKalb-----	XL80	92	53	109	104	88	89				
Coker-----	54	89	69	101	80	98	87				
P.A.G.-----	644W	91	58	81	105	94	86				
Test Average:		95	69	97	98	107					
L.S.D. (.05):		12.6	16.5	22.1	9.2	17.5	^{1/} Yield adjusted to 15.5% moisture				
C.V. (%):		9.5	17.1	16.2	6.7	11.7	and 56 lb. per bushel.				

Table 10. Some Characteristics of Corn Varieties Tested Three Years in Southern Alabama, 1973-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Funk's-----	G-795W-1	103	24.7	2.3	1.1	3.4	81.7	2.0
Pioneer-----	511A	100	21.3	2.0	1.1	3.3	81.1	2.0
Pioneer-----	3369A	99	8.2	2.5	1.0	2.7	82.0	2.8
Funk's-----	G-4864	99	9.8	2.2	1.0	3.2	82.8	1.9
McCurdy-----	67-14	98	10.2	2.2	1.0	2.9	80.0	2.7
Funk's-----	G-5945	96	12.6	2.4	1.0	3.7	82.3	2.1
McNair-----	S-338	95	12.4	2.7	1.0	2.9	81.1	2.6
Funk's-----	G-4949A	95	9.1	2.5	1.0	3.7	82.1	2.5
Pioneer-----	3009	92	14.5	2.0	0.9	3.3	78.4	1.7
Coker-----	54	92	14.5	1.7	1.1	3.4	81.4	1.8
Funk's-----	G-4762	92	11.4	2.5	1.0	2.8	83.9	2.5
Pioneer-----	3030	91	11.8	2.1	1.0	3.4	78.9	1.5
PAG-----	751	90	20.0	2.3	1.1	3.8	80.2	2.0
McNair-----	508	89	8.0	2.3	1.1	3.6	81.7	2.1
Greenwood-----	45	84	13.3	1.9	1.0	3.1	80.6	2.3
-----	Mosby	65	28.6	3.0	0.9	3.2	80.2	2.8

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 11. Some Characteristics of Corn Varieties Tested Two Years in Southern Alabama, 1974-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Pioneer-----	3147	109	17.2	2.9	1.0	3.2	82.9	2.9
McNair-----	73011	106	11.9	1.4	1.2	3.9	84.0	2.1
Coker-----	77	106	15.9	2.1	1.1	3.7	82.6	2.5
Funk's-----	G-795W-1	105	27.7	2.3	1.1	3.3	81.7	2.0
Pioneer-----	3369A	101	6.2	2.5	1.0	2.6	82.8	2.9
McNair-----	S338	100	12.3	2.6	1.0	2.8	81.9	2.6
McCurdy-----	67-14	99	10.0	2.2	1.0	2.8	80.0	2.9
Pioneer-----	511A	99	25.5	2.0	1.1	3.2	81.0	2.1
Funk's-----	G-4864	99	11.8	2.2	1.0	3.2	83.2	1.9
Funk's-----	G-5945	97	14.8	2.3	1.0	3.6	81.9	2.1
Funk's-----	G-4949A	95	12.2	2.4	1.0	3.6	81.8	2.6
McNair-----	X300	94	8.6	2.2	1.0	2.7	79.5	2.4
McNair-----	508	93	10.7	2.2	1.2	3.6	81.8	2.2
Pioneer-----	3009	92	16.1	2.1	1.0	3.2	78.4	1.6
Pioneer-----	3030	92	14.9	2.1	1.0	3.3	78.8	1.6
Coker-----	54	92	19.6	1.7	1.1	3.3	81.4	1.8
Funk's-----	G-4762	89	14.9	2.6	1.0	2.8	83.2	2.7
PAG-----	751	89	25.4	2.2	1.1	3.6	79.9	1.9
Greenwood-----	45	83	15.3	2.0	1.0	3.0	80.1	2.3
-----	Mosby	63	34.1	3.0	0.9	3.0	80.2	2.6

^{1/}Yield adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 12. Some Characteristics of Corn Varieties Tested in Southern Alabama, 1975

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height or ears Ft.	Shelling Pct.	Husk ^{2/} Rating
Coker-----	77	121	22.5	1.9	1.2	3.6	83.3	2.6
Pioneer-----	3147	117	23.7	2.8	1.0	3.1	83.0	2.5
Funk's-----	G-795W-1	112	29.8	2.2	1.1	3.2	81.5	2.0
Funk's-----	G-5945	110	22.2	2.1	1.1	3.4	81.7	2.0
McCurdy-----	67-14	109	12.6	1.9	1.0	2.7	80.4	2.6
McNair-----	X-300	109	9.8	2.0	1.0	2.6	81.0	2.0
Funk's-----	G-4810	109	16.1	1.9	1.0	3.0	81.5	2.6
Pioneer-----	3369A	108	8.6	2.3	1.0	2.4	83.5	2.6
McNair-----	S338	107	16.7	2.6	1.0	2.7	83.1	2.5
DeKalb-----	XL80	105	12.8	2.0	1.0	2.5	81.7	2.2
Ring Around----	RA1501	105	13.0	3.0	1.0	2.9	83.6	2.6
Pioneer-----	3145	105	16.1	2.0	1.1	3.0	81.2	2.1
Coker-----	54	105	24.6	1.6	1.1	3.1	81.6	1.6
Funk's-----	G-4864	104	18.0	2.1	1.0	3.0	83.5	1.8
DeKalb-----	XL394	104	20.9	2.3	1.1	3.2	82.5	2.4
Pioneer-----	3009	104	22.8	1.8	1.0	3.0	79.2	1.5
Coker-----	16	103	9.9	2.5	1.0	2.5	84.1	2.9
Pioneer-----	511A	103	31.1	2.1	1.1	3.1	81.9	2.0
Ring Around----	RA118	101	12.0	2.6	1.0	2.6	84.9	2.1
McNair-----	508	101	16.1	2.0	1.2	3.4	81.9	1.9
PAG-----	751	99	37.8	2.0	1.2	3.4	80.1	2.0
Funk's-----	G-4949A	98	20.7	2.4	1.0	3.2	82.6	2.3
McNair-----	73011	98	19.5	1.5	1.2	3.8	82.7	1.9
Pioneer-----	3030	98	20.2	1.8	1.0	3.1	78.6	1.6
Funk's-----	G-4770	96	16.5	2.9	1.0	2.3	83.9	3.0
McNair-----	X194	95	17.4	2.8	1.0	2.6	83.6	2.9
McNair-----	X170	94	8.3	2.6	1.0	2.3	84.8	3.2
Funk's-----	G-4762	93	22.8	2.6	1.0	2.7	83.4	2.8
Greenwood-----	45	84	17.7	1.9	1.1	2.8	80.5	2.1
-----	Mosby	70	41.0	2.8	0.9	2.9	81.4	2.4

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor

Table 13. 1975 Yield of Corn Varieties by Locations and Regional Averages for 1-5 Years in Southern Alabama^{1/}

Brand name	Hybrid or variety	Regional Average Yield/Acre								
		Fairhope	Brewton	Monroeville	Headland	1-yr. 1975	2-yr. 1974-75	3-yr. 1973-75	4-yr. 1972-75	5-yr. 1971-75
		Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.
Funk's-----	G-795W-1	136	91	105	115	112	105	103	100	102
McCurdy-----	67-14	142	83	98	113	109	99	98	94	97
Funk's-----	G-4949A	120	86	87	99	98	95	95	92	96
Funk's-----	G-5945	131	96	96	117	110	97	96	93	95
P. A. G.-----	751	100	91	98	108	99	89	90	89	93
McNair-----	508	125	83	79	115	101	93	89	88	92
Funk's-----	G-4762	114	76	84	97	93	89	92	87	91
-----	Mosby	93	65	62	57	70	63	65	64	68
Pioneer-----	511A	125	87	95	103	103	99	100	100	
Pioneer-----	3369A	152	92	99	90	108	101	99	95	
McNair-----	S338	138	86	91	114	107	100	95	94	
Pioneer-----	3009	126	91	93	105	104	92	92	90	
Pioneer-----	3030	116	88	84	103	98	92	91	90	
Greenwood-----	45	100	72	74	90	84	83	84	84	
Funk's-----	G-4864	126	90	93	109	104	99	99		
Coker-----	54	123	93	91	112	105	92	92		
Pioneer-----	3147	144	100	101	124	117	109			
Coker-----	77	141	106	114	121	121	106			
McNair-----	73011	115	88	82	107	98	106			
McNair-----	X300	144	105	89	98	109	94			
Funk's-----	G-4810	137	104	96	98	109				
DeKalb-----	XL80	138	83	94	106	105				
Ring Around--	RA1501	145	94	97	83	105				
Pioneer-----	3145	124	93	95	107	105				
DeKalb-----	XL394	123	84	99	110	104				
Coker-----	16	141	92	96	84	103				
Ring Around--	RA118	139	84	85	97	101				
Funk's-----	G-4770	123	80	94	88	96				
McNair-----	X194	125	81	91	82	95				
McNair-----	X170	132	87	83	72	94				
Test average:		128	88	92	101	1/Yields adjusted to 15.5% moisture and				
L.S.D. (.05):		13.4	11.2	9.0	17.3	56 lb/bu.				
C.V. (%):		7.5	9.0	7.0	12.3					

Table 14. Some Characteristics of Corn Hybrids Planted in 30 inch rows and Irrigated, Camden - 1975

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Ear Height Ft.	Shelling Pct.	Husk ^{2/} Rating
Coker-----	77	110	3.4	1.0	1.0	4.4	71.6	1.3
Pioneer-----	3147	105	4.4	1.3	0.9	3.9	71.8	1.3
Pioneer-----	3369A	103	9.1	1.0	0.9	3.1	74.8	1.0
Coker-----	56	102	4.9	1.0	1.0	3.7	70.5	1.5
Funk's-----	G-4810	102	16.9	1.0	0.9	3.5	70.8	1.5
Funk's-----	G-4864	102	4.1	1.0	0.9	3.9	73.8	1.0
Funk's-----	G-795W-1	100	15.1	1.3	1.0	3.6	69.6	1.0
DeKalb-----	XL394	99	10.7	1.0	0.9	4.0	73.1	1.0
PAG-----	751	97	23.9	1.0	1.0	4.5	69.3	1.0
McNair-----	X300	96	4.1	1.0	0.9	3.1	71.1	1.0
Funk's-----	G-4949A	95	5.8	1.0	0.9	4.5	70.0	1.5
Pioneer-----	511A	94	18.0	1.0	1.0	3.6	69.5	1.0
McCurdy-----	72-24	93	21.1	1.0	1.0	4.7	72.3	1.0
Funk's-----	G-5945	92	17.2	1.0	0.9	4.1	71.4	1.0
Coker-----	16	92	3.8	1.0	0.9	2.6	74.7	1.5
McNair-----	508	92	5.4	1.0	1.0	4.3	67.5	1.3
Pioneer-----	3030	91	9.0	1.3	0.9	3.8	63.7	1.0
McCurdy-----	73-53	90	11.2	1.3	0.9	4.2	70.4	1.0
DeKalb-----	XL80	90	17.1	1.0	0.9	3.0	73.3	1.0
Pioneer-----	3009	89	11.7	1.0	0.9	4.1	64.9	1.0
McCurdy-----	67-14	87	10.4	1.0	0.9	3.2	70.5	1.3
Coker-----	54	85	24.6	1.0	0.9	4.1	70.1	1.0
PAG-----	644W	84	15.7	1.0	0.9	4.0	71.9	1.3
McNair-----	S338	82	10.9	1.8	0.9	3.3	72.8	1.5
Funk's-----	G-4762	82	18.7	1.0	0.9	3.2	69.5	1.3
Greenwood-----	45	75	12.0	1.0	0.9	3.6	67.4	1.0
-----	Mosby	55	51.8	1.5	0.9	3.6	70.5	1.3
Test average:		92						
L.S.D. (.05):		14.5						
C.V. (%):		11.3						

^{1/}Yield adjusted to 15.5% moisture and 56 lb. per bushel.
^{2/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 15. Some Characteristics of Corn Hybrids Planted in 30 inch rows and Irrigated, Camden - 1974-75

Brand name	Hybrid or variety	Yield per acre ^{1/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Ear Height Ft.	Shelling Pct.	Husk ^{2/} Rating
Coker-----	77	122	6.7	1.4	1.1	4.6	72.7	1.9
Funk's-----	G-795W-1	118	22.7	1.8	1.1	3.7	71.0	1.3
McCurdy-----	72-24	114	25.4	1.5	1.1	4.8	72.4	1.3
Pioneer-----	3147	112	9.2	1.9	1.0	4.1	74.1	2.0
Funk's-----	G-4864	112	3.9	1.5	0.9	4.0	75.0	1.0
Pioneer-----	511A	108	23.0	1.8	1.1	3.9	70.2	1.4
Funk's-----	G-5945	105	13.0	1.6	1.0	4.3	72.6	1.5
Funk's-----	G-4949A	105	5.2	1.6	0.9	4.6	71.4	2.0
Pioneer-----	3009	104	15.0	1.5	1.0	4.1	66.9	1.4
PAG-----	751	103	23.1	1.5	1.0	4.6	70.4	1.5
McNair-----	X300	103	5.1	1.5	1.0	3.2	70.9	1.8
Coker-----	56	103	7.0	1.5	1.0	3.7	72.0	1.9
Pioneer-----	3369A	103	7.2	1.9	1.0	3.4	72.6	2.1
McNair-----	508	103	6.5	1.3	1.1	4.3	71.1	1.9
Pioneer-----	3030	101	8.8	1.8	1.0	4.1	67.4	1.1
McCurdy-----	67-14	99	7.8	1.5	1.0	3.5	71.0	2.0
McNair-----	S338	98	15.7	2.0	1.0	3.5	73.0	2.0
Funk's-----	G-4762	96	14.3	1.4	1.0	3.4	72.3	1.8
Greenwood-----	45	93	13.4	1.0	1.0	3.7	69.3	1.6
-----	Mosby	61	44.5	2.0	1.0	3.7	70.8	1.9

^{1/}Yield adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/1} = excellent; ² = good; 3 = fair; 4 = poor; 5 = very poor.

Table 16. Performance of Corn Hybrids Tested One Year at the Black Belt Substation, 1975^{1/}

Brand name	Hybrid or variety	Yield per acre ^{2/} Bu.	Lodged stalks Pct.	Quality ^{3/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{3/} Rating	MCDV ^{4/} Pct.	MDMV ^{5/} Pct.
DeKalb-----	XL394	98	1.2	2.3	1.1	4.4	84.4	1.8	5	0
Funk's-----	G-4864	94	1.9	2.0	1.0	4.2	83.6	1.5	5	2
Funk's-----	G-5945	94	2.5	2.5	1.1	4.8	83.5	1.8	5	0
Pioneer-----	3179	92	5.0	3.3	1.0	4.3	83.6	2.8	10	0
Funk's-----	G-795W-1	90	3.0	2.5	1.0	4.4	81.6	1.8	4	0
Pioneer-----	3147	90	1.9	3.3	1.0	4.2	82.5	2.5	9	0
McNair-----	73011	86	0.7	1.8	1.3	5.0	84.1	1.8	0	0
Coker-----	56	85	3.0	2.0	1.1	4.0	83.0	2.0	15	0
Pioneer-----	3009	84	6.8	3.0	1.0	4.8	82.1	2.3	5	5
Pioneer-----	511A	83	8.7	2.5	1.2	4.4	82.5	1.5	3	0
McNair-----	508	83	2.6	2.0	1.1	4.3	83.4	1.5	10	0
Funk's-----	G-4525	83	11.5	3.5	0.9	3.6	81.8	2.8	0	0
Funk's-----	G-4949A	83	6.9	3.0	1.0	4.5	81.6	2.0	7	0
Pioneer-----	3145	83	1.9	2.5	1.0	4.2	80.3	2.0	5	0
Pioneer-----	3030	82	11.7	2.3	1.0	4.5	80.0	1.5	12	0
Pioneer-----	3369A	80	21.0	2.7	0.8	3.4	81.2	2.3	15	5
DeKalb-----	XL80	75	7.3	3.0	0.8	3.6	80.4	1.3	10	0
PAG-----	605	74	11.0	2.0	0.8	4.7	82.7	1.5	22	0
PAG-----	751	73	7.1	2.3	1.1	4.7	82.1	1.5	10	0
Greenwood----	45	72	11.5	1.3	1.1	4.0	81.2	1.8	27	0
McNair-----	S338	67	14.4	3.3	0.8	3.3	81.4	2.8	20	0
Funk's-----	G-4762	63	12.2	3.0	0.9	3.8	83.1	3.0	0	0
McCurdy-----	67-14	58	21.8	2.5	0.7	3.6	78.9	2.8	12	5
Funk's-----	G-4611	53	31.1	3.0	0.7	3.5	82.5	2.8	7	0
DeKalb-----	72B	46	44.4	4.7	0.5	3.4	82.5	3.5	0	5

Test Average:

79

L.S.D. (.05):

15.5

C.V. (%):

14.0

^{1/}Excessive lodging and some yield reduction due to deer and racoon damage.

^{2/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{3/}1=excellent; 3=good; 3=fair; 4=poor; 5=very poor.

^{4/}Maize chlorotic dwarf virus.

^{5/}Maize dwarf mosaic virus.

Table 17. Performance of Corn Hybrids Tested Two Years at the Black Belt Substation, 1974-75 ^{1/}

Brand name	Hybrid or variety	Yield per acre ^{2/} Bu.	Lodged stalks Pct.	Quality ^{2/} Rating	Ears per stalk No.	Height of ears Ft.	Shelling Pct.	Husk ^{3/} Rating
McNair-----	73011	106	0.6	1.6	1.2	5.3	84.2	2.0
Funk's-----	G-4864	104	1.5	2.1	0.9	4.3	84.3	1.9
Pioneer-----	3147	98	1.0	3.3	1.0	4.3	83.0	2.9
Pioneer-----	3179	96	5.2	2.9	0.9	4.4	84.1	2.5
Funk's-----	G-5945	89	1.8	2.8	1.0	4.8	83.0	1.9
Pioneer-----	3009	86	5.9	2.5	1.0	4.6	80.9	2.3
Funk's-----	G-4762	86	6.8	2.5	1.0	3.9	84.5	2.4
DeKalb-----	XL80	86	3.8	2.8	0.9	3.7	82.0	1.6
Pioneer-----	3369A	75	23.6	3.1	0.7	3.4	82.3	2.9
McCurdy-----	67-14	75	12.6	3.1	0.9	3.9	81.6	2.8

^{1/}Excessive lodging and some yield reduction due to deer and racoon damage.

^{2/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{3/}1=excellent; 2=good; 3=fair; 4=poor; 5=very poor.

PRELIMINARY REPORT

Table 18. Some Characteristics of Corn Hybrids Tested One Year at Three Locations in Northern Alabama, 1975

Brand name	Hybrid	Yield per acre ^{1/}				Lodged stalks	Quality ^{2/}	Ears			
		Belle Mina	Crossville	Winfield	Regional average			per stalk	Ear height	Shelling	Husk ^{3/}
		Bu.	Bu.	Bu.	Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
		(1)	(1)	(1)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Greenwood-----	44	146	140	121	136	5.4	1.8	1.0	3.8	79.2	2.5
Coker-----	5038	133	157	113	134	8.1	2.2	1.1	3.9	83.9	2.0
Pioneer-----	3369A ^{3/}	133	141	112	129	7.2	2.1	1.0	3.9	82.2	2.2
Funk's-----	G-4507	146	136	100	127	3.3	2.6	1.0	4.0	83.3	2.7
Pioneer-----	3368A	122	146	113	127	5.0	2.3	1.0	3.7	83.3	2.1
Coker-----	4034	140	120	121	127	4.7	2.3	1.1	4.1	84.3	2.3
Pioneer-----	3147 ^{3/}	144	120	111	125	4.0	2.6	1.0	3.8	82.8	2.4
DeKalb-----	XL394	137	125	112	125	3.5	2.3	1.1	4.1	82.2	1.9
Funk's-----	G-4525	130	129	109	123	8.1	2.3	1.0	3.9	84.8	2.5
McNair-----	X233	132	126	112	123	3.2	1.8	1.0	4.2	78.5	2.0
Golden Harvest--	H2666	136	134	98	123	7.0	2.3	1.1	3.8	78.5	2.3
Coker-----	4018	134	136	98	123	5.4	2.3	1.1	4.0	81.5	2.5
Funk's-----	G-4611	139	123	103	122	4.1	2.1	1.0	3.8	83.2	2.5
Coker-----	4022	125	137	104	122	3.2	2.3	1.0	3.9	81.8	2.4
Asgrow-----	RX114	130	127	109	122	4.2	1.9	1.1	3.9	82.1	1.8
DeKalb-----	78	133	140	89	121	7.2	2.0	1.0	3.8	84.9	2.8
Golden Harvest--	H-2775	129	135	97	120	2.8	2.4	1.0	3.8	81.6	2.0
DeKalb-----	XL95	135	125	100	120	4.1	2.2	1.1	4.5	78.4	1.8
Northrup King--	PX79	130	129	99	119	4.2	2.3	1.0	3.9	83.5	2.0
Northrup King--	PX95	127	118	112	119	5.2	2.7	1.2	4.2	82.9	2.0
Northrup King--	PX76	129	134	90	118	5.7	2.3	0.9	3.5	83.4	2.6
Funk's-----	27466	133	115	106	118	4.2	2.2	1.1	3.9	79.0	2.4
McCurdy-----	72-44A	131	119	98	116	6.2	2.3	1.0	3.8	80.0	2.1
Ring Around---	RA1502	128	138	79	115	3.2	2.3	1.0	3.7	82.1	2.2
McCurdy-----	73-56	129	124	90	114	4.2	2.4	1.1	3.9	79.7	1.8
Golden Harvest--	H-2750	132	122	88	114	5.7	2.4	0.9	3.7	81.5	2.5
McNair-----	S237	125	119	96	113	7.8	2.2	1.0	3.9	82.6	2.3
Ring Around---	RA3501	125	112	95	111	5.0	2.8	1.0	3.5	83.2	3.1

Table 18. (Cont'd). Some Characteristics of Corn Hybrids Tested One Year at Three Locations in Northern Alabama, 1975.

Brand name	Hybrid	Yield per acre ^{1/}				Lodged stalks	Quality ^{2/}	Ears per stalk	Ear height	Shelling	Husk ^{3/}
		Belle Mina	Crossville	Winfield	Regional average						
		Bu.	Bu.	Bu.	Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
		(1)	(1)	(1)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Asgrow-----	RX132	130	109	92	110	4.9	2.3	1.0	4.0	80.2	1.7
ACCO-----	AR19792	130	108	92	110	3.2	2.0	1.2	3.7	79.3	1.6
McCurdy-----	73-70	128	117	84	110	6.5	2.3	1.0	3.9	80.4	1.9
DeKalb-----	72B	126	118	85	109	4.1	2.3	1.0	3.4	83.6	2.6
Pioneer-----	3145	120	116	91	109	3.4	2.5	1.0	4.0	78.8	1.9
PAG-----	605	128	111	88	109	5.1	2.7	0.9	4.1	83.1	1.8
Northrup King--	PX91	118	107	89	105	5.7	2.2	1.1	4.1	80.5	2.4
Pioneer-----	3177	130	112	72	104	9.2	2.5	1.0	3.7	81.3	2.8
Golden Harvest-	XC4777	112	103	65	93	7.7	2.7	1.0	3.5	78.6	2.7
Green's-----	LW-9045-A ^{4/}	135			135	6.8	2.8	1.0	3.2	84.3	3.3
Green's-----	GG-4404-P ^{4/}	132			132	5.6	2.3	1.0	3.7	85.4	2.8
Green's-----	FF-3303-Q ^{4/}	121			121	5.5	2.8	1.0	4.3	84.0	4.3

Test average: 131 125 98
L.S.D. (.05): 19.0 14.2 19.8
C.V. (%): 10.4 8.1 14.4

^{1/}Yields adjusted to 15.5% moisture and 56 lb. per bushel.

^{2/}1=excellent; 3=good; 3=fair; 4=poor; 5=very poor.

^{3/}Check hybrids.

^{4/}Belle Mina only.

PRELIMINARY REPORT

Table 19. Some Characteristics of Corn Hybrids Tested at Tallassee, 1975.

Brand name	Hybrid	Yield per acre ^{1/} Bu.	Quality ^{2/} Rating	Shelling Pct.
McNair-----	73009	142	2.0	86.2
Greenwood-----	44	134	2.0	83.2
Golden Harvest-----	XC-4728	133	2.5	83.3
Coker-----	5038	132	2.0	87.0
Greenwood-----	747	131	2.0	83.2
Pioneer-----	3147 ^{3/}	129	3.3	84.0
DeKalb-----	XL 395	126	2.0	85.3
Funk's-----	G-4507	123	2.8	86.0
Pioneer-----	3368A	123	2.0	84.7
Pioneer-----	3369A ^{3/}	122	2.0	85.0
Funk's-----	G-4611	122	2.3	86.3
Coker-----	4022	121	3.5	84.7
Pioneer-----	3145	119	2.3	82.2
Coker-----	4018	117	2.5	85.1
DeKalb-----	8527S	117	2.5	81.3
Asgrow-----	RX114	116	2.0	83.4
Funk's-----	G-4525	116	2.0	85.3
Asgrow-----	RX132	116	2.0	84.1
McCurdy-----	73-49	114	2.0	82.9
DeKalb-----	1214A	113	2.0	83.8
Ring Around-----	RA118	111	2.3	85.4
McNair-----	X233	111	2.0	78.8
Golden Harvest-----	H-2775	111	2.3	84.7
Ring Around-----	RA1501	108	3.0	84.8
ACCO-----	AR14289	107	2.0	82.5
Pioneer-----	3177	105	2.3	85.1
McNair-----	X170	99	2.5	85.0
P.A.G.-----	SX98	97	2.3	85.3
Funk's-----	G-4770	96	2.5	85.2
McCurdy-----	73-56	96	2.0	82.4
Ring Around-----	RA3501	91	3.3	83.3
Golden Harvest-----	H-2820	91	2.0	82.9
Test average:		115		
L.S.D. (.05):		17.6		
C.V. (%):		10.9		

^{1/}Yields adjusted to 15.5% moisture and 56 lb/bu.
^{2/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
^{3/}Check hybrids.

PRELIMINARY REPORT

Table 20. Some Characteristics of Corn Hybrids Tested One-Year at Fairhope, 1975.

Brand name	Hybrid	Yield per acre ^{1/}		Lodged stalks	Quality ^{2/}		Ears per stalk	Ear height	Shelling	Husk ^{2/}
		Fairhope	Bu.		Pct.	Rating				
Ring Around-----	RA1502	147	0.0	0.0	1.0	0.9	3.5	86.8	2.0	
Pioneer-----	3368A	146	0.9	0.9	1.3	1.0	3.4	89.2	3.0	
DeKalb-----	8527S	145	0.0	0.0	1.0	0.9	3.8	81.8	1.5	
McCurdy-----	73-98	143	1.9	1.9	1.3	0.9	3.7	82.4	1.3	
Coker-----	5038	143	0.5	0.5	1.5	1.0	3.6	86.9	1.3	
Funk's-----	G-4507	142	0.0	0.0	1.3	0.9	3.5	87.7	1.5	
DeKalb-----	XL95	142	6.7	6.7	1.0	1.0	5.0	84.4	2.3	
Funk's-----	G-795W-1 ^{3/}	140	11.3	11.3	1.5	1.0	4.0	84.8	1.0	
Pioneer-----	3369A ^{3/}	140	0.0	0.0	1.0	1.0	3.3	87.4	1.8	
Funk's-----	G-4611	139	1.9	1.9	1.0	0.9	3.5	88.7	2.0	
Golden Harvest---	H-2775	138	0.5	0.5	1.3	1.0	3.4	83.4	1.5	
Funk's-----	G-4525	138	1.4	1.4	1.0	1.0	3.3	88.2	2.8	
Coker-----	4018	137	1.3	1.3	1.3	0.9	3.5	86.2	2.0	
Coker-----	4034	136	0.5	0.5	1.0	0.9	3.4	86.0	1.5	
Coker-----	4022	136	3.8	3.8	1.0	0.9	3.6	84.0	2.0	
P.A.G.-----	SX98	131	0.9	0.9	1.0	1.0	3.2	90.2	2.3	
Golden Harvest---	H-2750	130	0.5	0.5	1.5	0.9	3.7	85.5	1.8	
McCurdy-----	73-48	127	2.9	2.9	1.0	1.0	4.4	85.6	1.0	
McNair-----	73009	127	0.9	0.9	1.0	1.1	4.7	86.6	1.5	
DeKalb-----	1214A	123	1.9	1.9	1.0	1.0	4.7	83.4	1.3	
McCurdy-----	73-51	122	2.3	2.3	1.5	1.0	4.8	87.6	1.3	
Greenwood-----	747	120	1.9	1.9	1.0	1.0	4.1	84.0	1.0	
Asgrow-----	RX132	120	0.9	0.9	1.0	0.9	4.2	84.4	1.0	
Asgrow-----	RX114	120	0.9	0.9	1.5	0.8	3.6	82.5	1.3	
Funk's-----	27466	118	5.0	5.0	1.8	0.9	3.8	78.8	2.5	
ACCO-----	AR14289	117	0.9	0.9	1.0	0.9	3.1	81.1	1.3	
P.A.G.-----	605	113	1.0	1.0	1.5	0.7	4.1	84.1	1.0	
Greenwood-----	801	113	5.3	5.3	1.3	1.0	3.7	83.2	1.3	
Ring Around-----	RA3501	108	3.4	3.4	1.5	1.0	3.1	86.1	3.3	
DeKalb-----	XL395	102	2.4	2.4	1.3	0.8	4.5	82.3	3.0	
Golden Harvest---	H-2820	99	0.0	0.0	2.0	0.9	3.3	84.8	1.5	
ACCO-----	AR38146	97	1.9	1.9	2.0	0.8	3.7	82.3	1.0	

Test average:

L.S.D. (.05):

C.V. (5)

128

15.6

8.7

^{1/}Yield adjusted to 15.5% moisture and 56 lb/bu.

^{2/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor. ^{3/}Check hybrids.

ACCEPTABLE HYBRIDS FOR 1976

All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hybrid. Hybrids are listed according to composite rating within group and yellow and white hybrids designated (Y) and (W) respectively.

NORTHERN ALABAMA

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early to Mid-Season</u>		
Pioneer-----	3369A	(Y)
McCurdy-----	67-14	(Y)
McNair-----	X300	(Y)
McCurdy-----	MSX88	(Y)
Coker-----	16	(Y)
McNair-----	X210	(Y)
McNair-----	S338	(Y)
Funk's-----	G-4762	(Y)
Funk's-----	G-5757	(Y)
DeKalb-----	XL801/	(Y)

Full Season

Pioneer-----	3147	(Y)
Pioneer-----	3179	(Y)
Funk's-----	G-4864	(Y)
Pioneer-----	511A	(W)
Funk's-----	G-795W-1	(W)
P.A.G.-----	644W	(W)
McCurdy-----	72-731/	(Y)
Coker-----	561/	(Y)

CENTRAL ALABAMA

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early to Mid-Season</u>		
Pioneer-----	3369A	(Y)
McCurdy-----	67-14	(Y)
Funk's-----	G-4762	(Y)
McNair-----	S338	(Y)
McCurdy-----	72-241/	(Y)

Full Season

Funk's-----	G-795W-1	(W)
Pioneer-----	3147	(Y)
Pioneer-----	511A	(W)
Pioneer-----	3009	(Y)
Funk's-----	G-4864	(Y)
Funk's-----	G-5945	(Y)
McNair-----	508	(Y)
Coker-----	56	(Y)
Funk's-----	G-4949A	(Y)
P.A.G.-----	751	(Y)
Pioneer-----	3030	(Y)
Greenwood-----	45	(Y)
Coker-----	771/	(Y)

SOUTHERN ALABAMA

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early to Mid-Season</u>		
Pioneer-----	3369A	(Y)
McCurdy-----	67-14	(Y)
McNair-----	S338	(Y)
Funk's-----	G-4762	(Y)

Full Season

Funk's-----	G-4864	(Y)
Funk's-----	G-795W-1	(W)
Pioneer-----	511A	(W)
Funk's-----	G-4949A	(Y)
Funk's-----	G-5945	(Y)
Coker-----	54	(Y)
Pioneer-----	3030	(Y)
Pioneer-----	3009	(Y)
McNair-----	508	(Y)
Pioneer-----	31471/	(Y)
Coker-----	771/	(Y)

1/ Tested two years in regular tests and not listed by composite rating.

