

E4AS
No. 7
C. 2

AGRICULTURAL
EXPERIMENT STATION
AUBURN UNIVERSITY
r. dennis rouse, director auburn, alabama



PERFORMANCE of CORN VARIETIES in ALABAMA, 1972

DEPARTMENT OF AGRONOMY AND SOILS DEPARTMENTAL SERIES NO. 7 JANUARY 1973

ACCEPTABLE HYBRIDS FOR 1972

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 alphabetically within groups and yellow and white hybrids are designated (Y) and (W) respectively.

NORTHERN ALABAMA

CENTRAL ALABAMA

SOUTHERN ALABAMA

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early Season</u>		
DeKalb	805A ^{1/}	(Y)
Funk's	G-4761	(Y)
Funk's	G-5757	(Y)
Pioneer	3369A ^{2/}	(Y)
Stull	807SX	(Y)

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early Season</u>		
Funk's	G-4761	(Y)
McCurdy	67-14 ^{2/}	(Y)
Pioneer	3369A ^{2/}	(Y)

<u>Brand name</u>	<u>Hybrid</u>	
<u>Early Season</u>		
McCurdy	67-14 ^{2/}	(Y)

<u>Full Season</u>		
Funk's	G-795W-1	(W)
Pioneer	511A	(W)
McCurdy	67-14 ^{2/}	(Y)
Pennington	CHR-W ^{2/}	(W)
Pioneer	3147 ^{2/}	(Y)
Pioneer	3179 ^{2/}	(Y)
Pioneer	3191 ^{2/}	(Y)

<u>Full Season</u>		
	Fla. 200A ^{1/}	(Y)
Funk's	G-5945	(Y)
Funk's	G-795W-1	(W)
Funk's	G-4949	(Y)
Greenwood	471 ^{1/}	(Y)
McNair	508 ^{2/}	(Y)
P.A.G.	751	(Y)
Pioneer	511A	(W)
Pioneer	3147 ^{2/}	(Y)

<u>Full Season</u>		
Coker	71	(Y)
	Dixie 18 ^{1/}	(Y)
	Fla. 200A ^{1/}	(Y)
Funk's	G-795W-1	(W)
Funk's	G-5945	(Y)
Funk's	G-4949	(Y)
Greenwood	471 ^{1/}	(Y)
McNair	508 ^{2/}	(Y)
P.A.G.	751	(Y)
Pennington	CHR-W	(W)
Pennington	7-C-11A	(Y)

^{1/} Hybrids recommended in 1969; however, data not available during 1970 and 1971 because of lack of normal cytoplasm hybrids for testing.

^{2/} Hybrids tested 2 years in the regular tests.

Performance of Corn Varieties in Alabama, 1972

David H. Teem^{1/}

Corn performance tests were conducted at 12 locations by the Auburn University Agricultural Experiment Station in 1972. These tests are conducted annually to determine relative production of many varieties offered for sale and furnish unbiased information by which growers may choose a variety. They are conducted to give a comparison of varieties entered in each test and are not intended for use as an absolute measure of the yielding potential of a variety in an area. Careful consideration should be given when choosing a variety since the proper choice may mean the difference between profit and loss.

The test at Auburn was not harvested due to large variations in stand. One T cytoplasm hybrid was entered to check the presence and severity of southern corn leaf blight (race T) during 1972. One F₂ or second generation variety, and one open-pollinated variety were also included in this year's tests.

Tests were hand planted and hand harvested. Recommended fertilization, plant population, weed control, and other practices were followed and conditions were the same for all hybrids within a given test. The experimental design was a randomized complete block with four replications. Yields were adjusted to 15.5 per cent moisture and 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

^{1/} Research Associate, Department of Agronomy and Soils.

were considered in rating ear and grain quality. Height of ears was measured from ear base to ground 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 1, 2, and 3, respectively. Table 4 shows yields by location and regional average yields for 1-5 years in northern Alabama. Similar data are shown for central Alabama in Tables 5-8 and for southern Alabama in Tables 9-12. Results of irrigated versus non-irrigated tests at Camden are shown in Table 13.

When comparing hybrids, small differences in yield should not be considered as real differences between hybrids but differences resulting 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 H.S.D. (honestly significant difference) is given for yield at each location. This means that if the difference between two hybrids being compared is greater than the H.S.D. value, the difference is considered real at the (.05) level of probability.

Long term averages should be considered when choosing a hybrid. Three years testing is considered sufficient to give a good measure of the performance of varieties. To help determine if a variety should be included in the acceptable list, a system was devised to obtain a composite rating for each variety. The regional average yield of a variety was used as its base point. The composite rating was obtained by subtracting values for lodging, quality, and height of ears from the base point. The value subtracted for each characteristic was proportional to the numerical value shown for the characteristic in Tables

1, 5, and 9. Also, those hybrids that have a good record for 2 years in the regular test are included, and noted, on the acceptable list. When available, data from more than 3 years are used in evaluating the varieties.

All of the acceptable varieties are not equal in performance. Some are outstanding in one or more characteristics. Others are not 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 variety of corn.

ACKNOWLEDGMENT

Variety tests were conducted in cooperation with S. E. Gissendanner, J. K. Boseck, R. A. Moore, E. L. Mayton, E. M. Evans, J. W. Langford, F. T. Glaze, V. L. Brown, E. L. Carden, H. F. Yates, and J. C. Starling.

Table 1. Some Characteristics of Corn Varieties Tested Three Years in Northern Alabama, 1969-1972^{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
Pioneer-----	511A	88.7	10.7	2.2	1.0	3.8	81.5	2.0
Funk's-----	G-795W-1	85.9	12.7	2.4	1.0	3.7	80.7	1.8
Funk's-----	G-4761	81.7	4.6	2.1	0.9	3.5	83.4	2.1
Funk's-----	G-5757	81.2	5.8	2.4	0.9	3.6	81.8	2.2
Stull-----	807SX	78.1	6.3	2.5	0.8	3.5	80.7	2.7
Stull-----	450W	71.6	12.8	2.5	0.9	3.3	80.0	2.0
-----	Mosby	69.0	16.1	2.9	0.9	3.7	81.2	2.2

^{1/} Does not include 1970 data.

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

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

Table 2. Some Characteristics of Corn Varieties Tested Two Years in Northern Alabama, 1971-72

Brand name	Hybrid or variety	Yield per acre ^{1/}	Lodged stalks	Quality ^{2/}	Ears per stalk	Height of ears	Shelling	Husk ^{2/}
		Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
Pioneer	-----3147	113.2	4.1	2.2	1.0	4.0	83.2	2.8
McCurdy	-----67-14	111.4	6.4	1.4	1.0	3.8	80.3	2.5
Pioneer	-----3179	110.6	7.6	1.9	1.0	3.9	84.0	2.6
Pioneer	-----3191	108.3	5.9	2.0	1.0	3.7	85.1	2.1
Pioneer	-----3369A	107.9	5.3	1.8	1.0	3.5	84.4	2.6
Pioneer	-----511A	102.7	10.4	2.1	1.2	3.9	82.3	2.0
Fennington	-----CHR-W	101.3	10.7	2.3	1.1	3.9	81.7	1.9
Funk's	-----G-795W-1	100.6	12.2	2.5	1.2	3.7	81.4	1.9
Pioneer	-----3151	97.5	6.1	2.3	1.0	4.0	81.3	2.3
P.A.G.	-----644W	96.1	7.6	2.2	0.9	4.2	82.1	2.2
Funk's	-----G-4761	93.0	5.4	2.1	1.0	3.7	84.9	2.2
Stull	-----807SX	92.8	6.6	2.6	0.9	3.6	81.8	2.9
Funk's	-----G-5757	92.3	5.9	2.5	1.0	3.6	83.4	2.3
P.A.G.	-----492	92.2	6.6	2.5	0.9	3.8	80.6	2.1
	-----Mosby	81.7	15.8	3.0	1.0	3.7	82.6	2.2
Stull	-----450W	78.3	13.4	2.8	0.9	3.4	81.2	2.0
Funk's	-----G-795W-1(F ₂) ^{3/}	77.1	12.2	3.1	1.1	3.7	81.4	1.7

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

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

^{3/} Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

Table 3. Some Characteristics of Corn Varieties Tested in Northern Alabama, 1972

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	121.4	6.0	2.2	1.1	4.1	82.9	2.8
Pioneer-----	3179	121.2	9.8	1.6	1.0	4.2	84.4	2.6
McCurdy-----	67-14	116.1	8.8	1.4	1.0	3.9	79.7	2.4
McCurdy-----	MSX 88	115.5	6.2	1.8	1.0	3.9	84.2	3.3
Pioneer-----	511A	114.2	13.3	2.1	1.2	4.2	81.5	1.8
Pioneer-----	3369A	114.0	8.3	1.8	1.0	3.7	84.5	2.6
Pioneer-----	3191	113.9	9.7	2.2	1.0	3.9	85.3	2.2
Pioneer-----	3329	110.1	7.7	2.1	1.1	4.0	83.3	2.0
DeKalb-----	805A	108.9	11.3	2.2	1.0	3.7	82.6	2.8
Stull-----	560W	105.7	11.1	2.1	1.0	4.0	81.5	2.6
Funk's-----	G-795W-1	104.9	16.4	2.4	1.2	3.9	81.4	2.0
DeKalb-----	XL 389	103.7	7.7	2.2	1.0	4.1	81.5	2.9
Stull-----	809SX	103.6	8.2	2.5	1.0	3.6	80.7	2.2
P.A.G.-----	644W	103.3	10.4	1.9	1.0	4.4	81.6	2.3
Pioneer-----	3151	103.3	7.8	2.3	1.0	4.2	81.1	2.4
McNair-----	210	102.4	6.7	1.9	1.0	3.8	80.8	1.8
Funk's-----	G-4761	102.3	7.1	2.1	1.0	3.9	84.9	2.2
Pennington-----	CHR-W	102.1	13.7	2.3	1.2	4.0	81.5	1.7
Funk's-----	G-4808	102.0	5.6	2.2	1.0	3.9	81.4	2.1
McNair-----	338	101.5	10.8	2.0	1.0	3.8	80.4	2.1
DeKalb-----	805A(T) ^{3/}	99.9	8.0	2.3	1.0	3.6	81.7	2.8
Funk's-----	G-5757	99.5	6.4	2.6	1.0	3.8	83.0	2.3
McCurdy-----	97-1	97.9	8.7	2.3	1.0	4.1	82.0	2.8
Stull-----	450W	96.7	13.6	2.5	1.0	3.9	80.9	2.3
P.A.G.-----	492	96.4	9.1	2.3	0.9	4.0	80.7	2.0
DeKalb-----	XL66	91.1	7.4	2.6	1.0	3.5	82.4	3.3
Stull-----	807SX	88.3	7.8	2.6	1.0	3.8	82.1	3.3
-----	Mosby	84.5	17.7	3.0	1.1	4.1	82.5	2.3
Funk's-----	G-795W-1(F ₂) ^{4/}	75.9	14.9	3.4	1.2	4.0	82.4	1.7

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

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

^{3/}T = Texas male sterile cytoplasm.

^{4/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

Table 4. 1972 Yields of Corn Varieties by Locations and Regional Averages for 1-5 Years in Northern Alabama^{1/}

Brand name	Hybrid or variety	Regional average yield per acre							
		Belle	Crossville	Win-	1-year	2-year	3-year	4-year	5-year
		Mina Bu.	Bu.	field Bu.	1972 Bu.	1971-72 ^{2/} Bu.	1969-72 ^{2/} Bu.	1968-72 ^{2/} Bu.	1967-72 ^{2/} Bu.
Funk's-----	G-795W-1	121.4	113.2	80.1	104.9	100.6	85.9	83.4	86.2
Stull-----	807SX	98.6	107.6	58.8	88.3	92.8	78.1	76.9	80.0
Stull-----	450W	108.2	107.0	75.1	96.7	78.3	71.6	71.4	75.8
-----	Mosby	95.8	103.9	53.9	84.5	81.7	69.0	66.8	66.7
Funk's-----	G-5757	116.3	110.8	71.6	99.5	92.3	81.2	79.3	
Pioneer-----	511A	127.6	124.4	90.6	114.2	102.7	88.7		
Funk's-----	G-4761	119.2	107.1	80.5	102.3	93.0	81.7		
Pioneer-----	3147	140.7	123.2	100.4	121.4	113.2			
McCurdy-----	67-14	128.4	125.1	94.9	116.1	111.4			
Pioneer-----	3179	144.0	125.7	94.1	121.2	110.6			
Pioneer-----	3191	125.4	128.1	88.2	113.9	108.3			
Pioneer-----	3369A	127.2	127.5	87.2	114.0	107.9			
Pennington-----	CHR-W	124.4	112.2	69.7	102.1	101.3			
Pioneer-----	3151	113.3	115.9	80.7	103.3	97.5			
P.A.G.-----	644W	129.4	109.7	70.8	103.3	96.1			
P.A.G.-----	492	110.0	112.1	67.2	96.4	92.2			
Funk's-----	G-795W-1(F ₂) ^{3/}	83.1	102.2	42.5	75.9	77.1			
McCurdy-----	MSX88	139.6	113.2	93.9	115.5				
Pioneer-----	3329	121.8	118.1	90.3	110.1				
DeKalb-----	805A	122.4	125.4	79.0	108.9				
Stull-----	560W	124.3	111.2	81.5	105.7				
DeKalb-----	XL389	120.8	116.9	73.4	103.7				
Stull-----	809SX	121.1	119.8	70.0	103.6				
McNair-----	210	118.9	112.6	75.8	102.4				
Funk's-----	G-4808	115.5	113.4	77.0	102.0				
McNair-----	338	111.3	117.1	76.2	101.5				
DeKalb-----	805A(T) ^{4/}	115.1	113.5	71.1	99.9				
McCurdy-----	97-1	109.9	108.4	75.4	97.9				
DeKalb-----	XL66	105.9	111.3	56.0	91.1				
Test average:		118.6	115.0	76.7	103.5				
H.S.D. (.05):		21.0	18.0	24.0	18.6				
C.V. % :		6.8	6.2	12.1	7.9				

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

^{2/}Does not include 1970 data.

^{3/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

^{4/}T = Texas male sterile cytoplasm.

Table 5. Some Characteristics of Corn Varieties Tested Three Years in Central Alabama, 1969-72^{1/}

Brand name	Hybrid or variety	Yield	Lodged	Quality ^{3/}	Ears	Height	Shelling	Husk ^{3/}
		per acre ^{2/} Bu.	stalks Pct.	Rating	per stalk No.	of ears Ft.	Pct.	Rating
Funk's-----	G-5945	84.7	6.6	2.3	1.1	4.0	80.7	2.1
Funk's-----	G-795W-1	82.4	16.5	2.5	1.1	3.4	79.5	2.0
Funk's-----	G-4949	80.2	4.4	2.4	1.1	4.0	80.5	2.2
Pioneer-----	511A	79.7	14.9	2.3	1.1	3.5	79.1	2.0
P.A.G.-----	751	78.5	10.0	2.3	1.3	4.1	78.7	2.0
Funk's-----	G-4761	77.4	6.2	2.5	1.0	3.0	82.9	2.2
-----	Mosby	51.0	21.7	3.0	1.0	3.2	77.7	2.3

^{1/}Does not include 1970 data.
^{2/}Yields adjusted to 15.5% moisture and 56 lb per bushel.
^{3/}1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Table 6. Some Characteristics of Corn Varieties Tested Two Years in Central Alabama, 1971-1972

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	115.7	5.2	2.8	1.1	3.7	81.1	2.4
McNair-----	508	104.7	5.6	1.9	1.4	4.0	81.1	2.0
Funk's-----	G-5945	100.9	4.4	1.9	1.2	4.3	81.2	1.7
Funk's-----	G-795W-1	100.0	13.5	2.2	1.2	3.7	80.2	1.6
McCurdy-----	67-14	99.3	3.9	1.9	1.0	3.3	79.3	2.5
Funk's-----	G-4949	98.8	2.2	2.0	1.2	4.3	81.3	2.0
Pioneer-----	511A	98.1	11.8	2.0	1.2	3.7	79.8	1.8
Pioneer-----	3369A	96.4	4.3	2.1	1.0	3.2	80.1	2.7
Funk's-----	G-4761	96.4	2.5	2.1	1.1	3.2	83.8	1.8
P.A.G.-----	751	95.7	7.1	1.9	1.3	4.4	79.8	1.7
Funk's-----	G-795W-1(F ₂) ^{3/}	87.4	11.1	2.4	1.1	3.5	78.9	2.0
-----	Mosby	67.7	20.3	2.9	1.1	3.4	78.8	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.

^{3/} Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

Table 7. Some Characteristics of Corn Varieties Tested in Central Alabama, 1972

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	122.3	6.7	2.4	1.1	3.2	81.5	2.2
McNair-----	508	117.0	2.2	1.8	1.5	3.6	81.8	2.0
Pioneer-----	511A	109.2	9.4	2.1	1.2	3.5	80.1	2.0
-----	Fla. 200A(T) ^{3/}	107.0	1.7	1.6	1.3	4.1	81.4	1.2
P.A.G.-----	751	105.7	4.2	1.8	1.4	4.0	80.2	1.7
McNair-----	338	104.5	2.3	1.7	1.0	3.0	80.2	1.8
Greenwood-----	471	103.9	5.9	1.8	1.2	3.9	80.2	1.5
Pioneer-----	3369A	103.0	0.8	2.0	1.0	3.0	80.1	2.7
Pioneer-----	3009	102.5	5.2	1.6	1.0	3.7	76.7	1.1
Funk's-----	G-4949	102.3	1.2	1.9	1.2	3.8	81.6	2.2
P.A.G.-----	644W	102.1	2.9	2.1	1.0	3.7	80.2	2.1
Funk's-----	G-5945	101.8	2.6	1.9	1.1	3.8	81.4	1.8
Funk's-----	G-4808	101.5	4.7	1.9	1.0	2.8	79.7	1.8
-----	Fla. 200A	101.2	3.4	1.7	1.3	4.3	79.6	1.3
Funk's-----	G-795W-1	101.2	13.1	2.1	1.3	3.3	80.6	1.8
Pioneer-----	3030	100.9	2.9	1.9	1.2	3.7	78.1	1.3
McCurdy-----	67-14	100.4	1.5	1.8	1.0	3.0	78.9	2.4
Funk's-----	G-4761	100.2	1.7	1.9	1.1	2.7	83.6	1.9
Greenwood-----	45	99.1	3.6	1.9	1.2	3.4	80.1	1.9
-----	S.C. 236	99.1	1.8	1.7	1.2	3.9	78.0	1.3
P.A.G.-----	653W	97.2	5.2	2.4	1.3	3.5	81.8	1.9
McNair-----	210	95.6	2.2	2.1	1.0	2.8	77.3	1.8
P.A.G.-----	492	94.0	5.3	2.3	1.0	3.1	79.2	1.6
Greenwood-----	75	92.7	5.7	1.8	1.1	3.2	77.6	1.7
McCurdy-----	36	92.4	8.4	2.3	1.2	4.0	78.2	1.9
DeKalb-----	XL 389	90.2	0.6	2.3	1.0	3.3	79.5	2.6
McCurdy-----	951W-1	89.0	11.8	2.3	1.1	3.0	79.8	2.3
Funk's-----	G-795W-1(F ₂) ^{4/}	88.1	12.1	2.3	1.2	3.2	79.0	1.6
P.A.G.-----	748	84.2	4.9	2.0	1.2	3.7	79.1	1.8
-----	Mosby	69.2	15.3	2.9	1.1	3.1	78.7	2.3

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

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

^{3/}T = Texas male sterile cytoplasm.

^{4/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

Table 8. 1972 Yields of Corn Varieties by Locations and Regional Averages for 1-5 Years in Central Alabama^{1/}

Brand name	Hybrid or variety	Location					Regional average yield per acre				
		Camden Bu.	Camp Hill Bu.	Pratt- ville Bu.	Tallasse e Bu.	1-year 1972 Bu.	2-year 1971-72 Bu.	3-year 1969-72 ^{2/} Bu.	4-year 1968-72 ^{2/} Bu.	5-year 1967-72 ^{2/} Bu.	
Funk's	G-5945	108.5	86.3	86.5	125.8	101.8	100.9	84.7	80.9	88.4	
Funk's	G-795W-1	102.9	68.3	90.3	143.1	101.2	100.0	82.4	78.7	86.3	
P.A.G.	751	88.7	87.2	96.7	150.3	105.7	95.7	78.5	75.2	85.3	
Pioneer	511A	111.5	94.9	95.5	134.9	109.2	98.1	79.7	76.2	83.0	
	Mostly	61.3	57.2	67.9	90.6	69.2	67.7	51.0	47.3	53.2	
Funk's	G-4949	100.3	80.7	94.8	133.3	102.3	98.8	80.2	76.4		
Funk's	G-4761	94.2	80.6	93.9	132.1	100.2	96.4	77.4			
Pioneer	3147	136.6	92.9	110.0	149.9	122.3	115.7				
McNair	508	109.1	104.9	93.8	160.0	117.0	104.7				
McCurdy	67-14	102.7	75.2	96.6	127.3	100.4	99.3				
Pioneer	3369A	118.9	88.5	92.7	111.9	103.0	96.4				
Funk's	G-795W-1(F ₂) ^{3/}	83.3	64.7	72.5	131.8	88.1	81.9				
	Fla. 200A(T) ^{4/}	113.4	77.6	90.1	146.8	107.0					
McNair	338	117.3	80.4	92.0	128.1	104.5					
Greenwood	471	107.2	82.1	91.4	134.9	103.9					
Pioneer	3009	110.5	96.1	86.8	116.6	102.5					
P.A.G.	644W	102.5	74.7	96.2	134.9	102.1					
Funk's	G-4808	103.4	94.0	83.1	125.5	101.5					
	Fla. 200A	104.8	83.0	80.6	136.4	101.2					
Pioneer	3030	93.2	83.9	92.3	134.2	100.9					
Greenwood	45	105.6	69.7	88.9	132.2	99.1					
	S.C. 236	100.7	85.1	88.0	122.4	99.1					
P.A.G.	553W	97.6	67.2	88.5	135.6	97.2					
McNair	210	103.7	80.7	83.0	114.9	95.6					
P.A.G.	492	97.1	76.9	82.7	119.1	94.0					
Greenwood	75	102.4	63.1	86.7	118.6	92.7					
McCurdy	36	96.2	77.3	81.0	115.2	92.4					
DeKalb	XL389	100.9	73.1	77.1	109.7	90.2					
McCurdy	951W-1	96.4	63.4	78.4	117.6	89.0					
P.A.G.	748	82.9	65.9	76.9	111.2	84.2					
Test average:		101.7	79.2	87.8	128.2	99.2					
H.S.D. (.05):		22.0	31.0	18.0	25.0	24.0					
C.V. % :		8.4	15.3	8.2	7.6	9.7					

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

^{2/}Does not include 1970 data.

^{3/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

^{4/}T = Texas male sterile cytoplasm.

Table 9. Some Characteristics of Corn Varieties Tested Three Years in Southern Alabama, 1969-1972^{1/}

Brand name	Hybrid or variety	Yield per acre ^{2/}	Lodged stalks	Quality ^{3/}	Ears per stalk	Height of ears	Shelling	Husk ^{3/}
		Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
Funk's-----	G-795W-1	93.6	21.7	2.5	1.1	3.0	82.1	2.4
Pennington-----	CHR-W	90.9	17.2	2.4	1.1	3.0	80.7	2.2
P.A.G.-----	751	88.0	12.5	2.1	1.2	3.4	80.9	1.8
Funk's-----	G-5945	86.5	5.8	2.3	1.0	3.3	83.9	2.4
Funk's-----	G-4949	86.4	3.7	2.4	1.0	3.4	82.9	2.3
Pennington-----	7-C-11A	86.0	10.2	2.8	1.0	3.0	80.8	2.1
Coker-----	71	74.8	8.6	1.9	1.1	3.3	79.3	1.9
-----	Mosby	64.9	26.1	3.3	1.0	2.8	80.3	2.8

^{1/} Does not include 1970 data.

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

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

Table 10. Some Characteristics of Corn Varieties Tested Two Years in Southern Alabama, 1971-1972

Brand name	Hybrid or variety	Yield	Lodged	Quality ^{2/}	Ears	Height	Shelling	Husk ^{2/}
		per acre ^{1/}	stalks	Rating	per stalk	of ears		Pct.
		Bu.	Pct.		No.	Ft.		
Pennington-----	CHR-W	102.2	16.5	2.1	1.2	3.0	80.6	2.1
Funk's-----	G-795W-1	101.5	20.9	2.3	1.2	2.9	82.1	2.4
P.A.C.-----	751	97.3	12.1	2.0	1.3	3.5	81.1	1.7
McCurdy-----	67-14	97.0	8.2	2.0	1.0	2.6	79.4	2.5
Funk's-----	G-4949	96.8	2.4	2.4	1.0	3.5	83.1	2.3
Pennington-----	7-C-11A	96.7	8.6	2.8	1.0	3.1	82.0	2.4
McNair-----	508	96.3	6.7	2.0	1.2	3.4	82.3	2.0
Funk's-----	G-5945	93.6	3.7	2.2	1.0	3.3	84.1	2.5
Funk's-----	G-4761	89.3	5.7	2.3	1.0	2.6	85.6	2.2
Coker-----	71	85.5	7.9	1.7	1.1	3.4	79.1	1.8
Funk's-----	G-795W-1(F ₂) ^{3/}	76.4	24.8	2.8	1.1	2.7	80.3	2.2
-----	Mosby	72.5	24.8	3.3	1.0	2.9	80.3	2.6

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

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

^{3/} Second generation variety obtained by saving Funk's G-795W-1 (F₁) seed.

Table 11. Some Characteristics of Corn Varieties Tested in Southern Alabama, 1972

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-----	511A	97.3	14.4	2.1	1.2	2.6	80.0	2.0
Pennington-----	CHR-W	89.7	14.7	2.6	1.1	2.6	80.2	2.0
Funk's-----	G-795W-1	89.5	14.7	2.5	1.1	2.6	80.2	2.1
McNair-----	338	89.0	5.8	2.1	0.9	2.3	81.6	2.3
P.A.G.-----	751	88.2	11.4	2.1	1.2	3.1	80.4	1.6
Pioneer-----	3030	86.7	6.3	1.8	1.1	2.8	77.6	1.5
ACCO-----	AR-08643	86.5	2.9	2.6	1.1	2.9	83.0	2.2
McNair-----	508	85.5	4.0	1.9	1.1	3.0	82.2	1.9
Funk's-----	G-5945	84.9	2.9	2.3	1.0	2.9	82.3	2.4
Pioneer-----	3151	84.9	2.8	2.8	1.0	2.8	78.5	2.4
Greenwood-----	75	84.5	4.8	1.9	1.0	2.4	78.9	2.2
Greenwood-----	45	84.2	3.8	1.9	1.0	2.5	79.2	2.1
DeKalb-----	1214	83.8	5.4	1.8	1.1	2.9	78.3	2.1
Funk's-----	G-4949	83.4	1.2	2.3	1.0	3.0	82.3	2.2
McCurdy-----	67-14	83.3	11.0	2.3	1.0	2.4	77.9	2.5
Pioneer-----	3369A	82.8	0.4	2.6	1.0	2.3	81.2	2.6
Pioneer-----	3009	82.2	8.3	1.9	1.0	2.7	77.0	1.6
Pennington-----	7-C-11A	81.2	4.6	1.8	1.0	2.8	78.0	1.6
Funk's-----	G-4808	80.7	7.2	2.6	1.0	2.3	80.3	2.2
Greenwood-----	471	79.1	8.5	1.8	1.0	3.3	80.1	1.6
-----	Fla. 200A(T) ^{3/}	78.9	4.3	1.7	1.0	3.4	82.2	1.6
P.A.G.-----	653W	77.6	18.2	2.5	1.1	3.0	82.2	1.9
ACCO-----	AR-08526	76.5	5.9	2.4	1.0	2.0	81.8	2.2
-----	Fla. 200A	76.1	7.0	1.6	1.0	3.4	81.7	1.4
Coker-----	71	75.1	8.1	1.9	1.1	3.0	78.8	1.8
-----	S.C. 236	74.9	7.1	1.6	1.0	3.0	78.3	1.8
Funk's-----	G-4761	73.7	7.3	2.7	1.0	2.3	83.1	2.1
P.A.G.-----	748	73.5	13.5	2.1	1.0	3.0	80.7	2.3
-----	Dixie 18	70.6	10.7	2.0	0.9	3.6	82.2	1.6
Funk's-----	G-795W-1(F ₂) ^{4/}	67.7	21.7	2.7	1.1	2.4	79.7	2.1
-----	Mosby	62.2	26.7	3.4	1.0	2.7	79.2	2.7

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

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

^{3/}T = Texas male sterile cytoplasm

^{4/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.

Table 12. 1972 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 per acre								
		Fair- hope Bu.	Brewton Bu.	Monroe- ville Bu.	Head- land Bu.	1-year 1972 Bu.	2-year 1971-72 Bu.	3-year 1969-72 ^{2/} Bu.	4-year 1968-72 ^{2/} Bu.	5-year 1967-72 ^{2/} Bu.
P.A.G.-----	751	119.9	90.6	62.0	80.3	88.2	97.3	88.0	77.5	80.2
Funk's-----	G-4949	110.0	83.3	55.4	84.8	83.4	96.8	86.4	78.0	80.0
Funk's-----	G-5945	108.9	85.6	61.5	83.6	84.9	93.6	86.5	78.7	79.9
Coker-----	71	107.2	72.5	44.6	76.3	75.1	85.5	74.8	64.8	67.8
-----	Mosby	94.5	56.3	43.5	54.5	62.2	72.5	64.9	55.9	55.4
Pennington-----	7-C-11A	115.5	69.7	63.1	76.6	81.2	96.7	86.0	75.5	
Funk's-----	G-795W-1	130.3	84.8	58.6	84.4	89.5	101.5	93.6		
Pennington-----	CHR-W	122.4	82.2	59.4	94.9	89.7	102.2	90.9		
McCurdy-----	67-14	118.0	72.5	67.7	75.2	83.3	97.0			
McNair-----	508	118.2	77.8	48.0	98.1	85.5	96.3			
Funk's-----	G-4761	97.6	59.9	56.1	81.3	73.7	89.3			
Funk's-----	G-795W-1(F ₂) ^{3/}	92.5	52.9	45.9	79.7	67.7	76.4			
Pioneer-----	511A	135.0	91.5	69.2	93.5	97.3				
McNair-----	338	127.0	80.7	67.0	81.4	89.0				
Pioneer-----	3030	115.2	82.1	63.1	86.4	86.7				
ACCO-----	AR-08643	118.2	84.3	68.3	75.5	86.5				
Pioneer-----	3151	119.5	81.7	68.4	70.1	84.9				
Greenwood-----	75	116.7	80.1	60.6	80.4	84.5				
Greenwood-----	45	121.5	79.5	51.6	84.1	84.2				
DeKalb-----	1214	109.3	79.4	56.5	90.1	83.8				
Pioneer-----	3369A	130.8	69.8	71.1	59.6	82.8				
Pioneer-----	3009	122.1	68.2	61.4	77.0	82.2				
Funk's-----	G-4808	109.5	70.3	53.3	89.7	80.7				
Greenwood-----	471	108.0	74.2	49.5	84.5	79.1				
-----	Fla. 200A(T) ^{4/}	110.1	81.7	38.7	85.3	78.9				
P.A.G.-----	653W	97.3	77.6	64.1	71.3	77.6				
ACCO-----	AR-C8526	101.0	76.7	63.8	64.4	76.5				
-----	Fla. 200A	107.5	76.7	40.4	79.8	76.1				
-----	S.C. 236	100.1	74.5	45.6	79.4	74.9				
P.A.G.-----	748	97.7	76.8	53.8	65.8	73.5				
-----	Dixie 18	97.7	71.6	36.4	76.9	70.6				
Test average:		112.2	76.3	56.4	79.5	81.1	^{1/} Yields adjusted to 15.5% moisture and 56 lb per bushel.			
H.S.D. (.05):		25.9	31.0	21.0	22.7	20.4	^{2/} Does not include 1970 data.			
C.V. % :		9.0	15.9	14.5	11.2	12.2				

^{3/}Second generation variety obtained by saving Funk's G-795W-1(F₁) seed
^{4/}T = Texas male sterile cytoplasm.

Table 13. Yield of Irrigated and Unirrigated Corn Varieties Tested
One and Two Years at Camden, 1971 and 1971-72^{1/}

Brand name	Hybrid or variety	1971 yield per acre ^{2/}		1971-72 yield per acre	
		Irrigated ^{3/}	Unirrigated	Irrigated	Unirrigated
		Bu.	Bu.	Bu.	Bu.
Pioneer-----	3147	137.6	136.6	125.1	120.5
McCurdy-----	67-14	128.9	102.7	123.8	107.2
Pioneer-----	511A	117.8	111.5	117.3	100.9
McNair-----	508	115.4	109.1	116.3	103.5
Funk's-----	G-795W-1	119.3	102.9	115.0	95.2
Funk's-----	G-5945	107.8	108.5	110.2	101.8
Funk's-----	G-4949	98.0	100.3	106.0	99.2
P.A.G.-----	751	110.5	88.7	101.7	81.1
Pioneer-----	3369A	98.8	118.9	101.0	105.0
Funk's-----	G-4761	103.9	94.2	100.8	85.1
Funk's-----	G-795W-1 (F ₂) ^{4/}	90.4	83.3	83.0	69.5
-----	Mosby	81.5	61.3	78.0	62.1
-----	Fla. 200A(T) ^{5/}	126.2	113.4		
-----	Fla. 200A	120.0	104.8		
Pioneer-----	3009	118.8	110.5		
McCurdy-----	951W-1	112.9	96.4		
McNair-----	338	112.0	117.3		
P.A.G.-----	653W	110.9	97.6		
Pioneer-----	3030	110.7	93.2		
Funk's-----	G-4808	110.4	103.4		
Greenwood-----	471	110.1	107.2		
Greenwood-----	45	109.8	105.6		
P.A.G.-----	644W	109.6	102.5		
McNair-----	210	103.2	103.7		
DeKalb-----	XL 389	103.2	100.9		
-----	S.C. 236	103.1	100.7		
P.A.G.-----	492	101.0	97.1		
Greenwood-----	75	99.0	102.4		
McCurdy-----	36	95.0	96.2		
P.A.G.-----	748	88.5	82.9		
Test average:		108.5	101.7		
H.S.D. (.05):		29.8	22.0		
C.V. % :		10.7	8.4		

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

^{2/} Planted: April 17.

^{3/} Irrigation (furrow): June 9 and July 12.

^{4/} Second generation variety obtained by saving Funk's G-795W-1 (F₁) seed.

^{5/} T = Texas male sterile cytoplasm.