PERFORMANCE of CORN VARIETIES in ALABAMA, 1971

DEPARTMENT OF AGRONOMY AND SOILS
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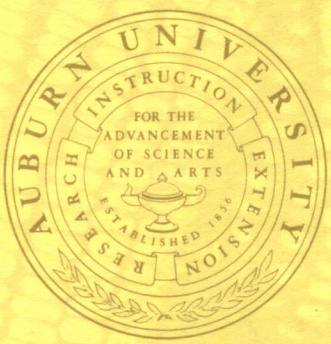

AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY
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PERFORMANCE OF CORN VARIETIES - 1971

Suggested Hybrids for 1972 (if produced with N cytoplasm)

This report does not contain data for certain hybrids on the following list because of damage by southern corn leaf blight in 1970 and lack of normal cytoplasm seed for testing in 1971. The hybrids listed have performed well in tests through 1969. Many new hybrids are available but have not been tested long enough for recommendation. 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

Early Season

DeKalb 805 A (Y)
Funk's G-5757 (Y)
P.A.G. SX 29 (Y)
Stull 450W (400W) (W)
Stull 807SX (Y)

Full Season

Dixie 77 (W)
Funk's G-795W-1 (W)
Stull 850W (800W) (W)

CENTRAL ALABAMA

Full Season

Dixie 18 (Y)
Fla. 200A (Y)
Funk's G-5945 (Y)
Funk's G-4949 (Y)
Funk's G-795W-1 (W)
Greenwood 471 (Y)
P.A.G. 751 (Y)
Pioneer 511A (W)
Pioneer 309B (Y)
S.C. 236 (Y)
Taylor 196A (Y)

SOUTHERN ALABAMA

Full Season

Coker 71 (Y)
Dixie 18 (Y)
Fla. 200A (Y)
Funk's G-5945 (Y)
Funk's G-4949 (Y)
Greenwood 471 (Y)
McNair 440F (Y)
P.A.G. 751 (Y)
Pennington 7-C-11A (Y)
Pioneer 309B (Y)
S.C. 236 (Y)
Taylor 196A (Y)

Performance of Corn Varieties in Alabama, 1971

David H. Teem[1/]

Corn performance tests were conducted at 12 locations by the Auburn University Agricultural Experiment Station in 1971. Southern corn leaf blight (race T) was not a problem on normal cytoplasm entries and excellent yields were made at most locations. Several T cytoplasm hybrids were entered to check the presence and severity of southern corn leaf blight (race T) during 1971. One F_2 or second generation variety, one open-pollinated variety, and several flint hybrids were also included in this year's tests.

All tests were hand planted and hand harvested. Fertilization, plant population, weed control, and other practices 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 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 - 4 years in northern Alabama. Similar data are shown for central Alabama in Tables 5 - 8 and for southern Alabama in Tables 9 - 12. Table 13 compares several flint hybrids with one dent hybrid at Auburn during 1971. Results of an irrigated versus non-irrigated test at Camden are shown in Table 14.

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Long-term averages should be considered when choosing a hybrid. However, because of the shift from T cytoplasm to N cytoplasm many of the hybrids which had been tested for several years were either not available for testing in 1971 or were discontinued rather than converted to N cytoplasm. 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 L.S.D. (least significance difference) is given for yield at each location. This means that the difference between the two hybrids being compared must be greater than the L.S.D. value for the difference to be real. The (.05) level of probability means that chances are greater than 19:1 that the difference is real.

Results obtained from planting the F_2 or second generation variety from the hybrid, Funk's G-795W-1, indicate approximately a 25 per cent reduction in yield with the F_2.[2/] Although the reduction varied with location it is advisable to plant F_1 seed. Comparison of Mosby, an open-pollinated variety, to the highest yielding hybrid on a 3-year average shows a reduction of 32 per cent from planting this open-pollinated variety. Yields of flint hybrids were generally less than dent hybrids and do not appear to be satisfactory substitutes, Table 13. Yield reduction of T cytoplasm hybrids and blends was variable depending on the location. Little reduction was found at some locations while drastic reductions occurred at others. It should be noted that an unusually cool spring and almost complete elimination of T cytoplasm hybrids probably resulted in less inoculum than in 1970. This may in part account for the light damage from southern corn leaf blight (race T) at some locations.

2/ Teem, David H. 1972. Free Corn Seed Can Be Expensive. Auburn Univ. (Ala.) Agr. Exp. Sta. Leaf. 83.

Results from the irrigation test at Camden showed a definite increase in yields from irrigation this season even though rainfall was generally adequate. However, there was an increase in lodging associated with the irrigation.

Even though data from 1967-71 is contained in this report the list of suggested hybrids for 1972 is based primarily on data prior to and including 1969.

Seed of hybrids, for testing in 1972, should be available in normal cytoplasm and recommendations brought up to date. It is suggested that this report be carefully studied before choosing a hybrid for 1971.

ADKNOWLEDGMENT

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 C. A. Brogden.

Table 1. Some Characteristics of Corn Varieties Tested Three Years in Northern Alabama, 1968-1971[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	76.3	10.1	2.6	0.9	3.5	80.2	1.7
Stull ----------	807SX	73.1	5.5	2.7	0.8	3.3	80.4	2.3
Funk's----------	G-5757	72.5	5.1	2.6	0.9	3.3	81.3	2.1
Stull----------	400W	62.9	11.7	2.7	0.8	3.0	80.0	1.8
----------	Mosby	60.8	14.8	3.0	0.9	3.4	80.2	2.1

[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, 1969-1971[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	76.4	11.0	2.6	0.9	3.6	80.3	1.7
Pioneer	511 A	75.9	9.4	2.5	0.9	3.6	81.5	2.1
Stull	807SX	73.0	5.7	2.7	0.8	3.3	79.8	2.3
Funk's	G-5757	72.1	5.5	2.5	0.9	3.4	81.1	2.1
Funk's	G-4761	71.4	3.4	2.3	0.9	3.3	82.4	2.0
	Mosby	61.3	15.3	3.1	0.9	3.5	80.3	2.1
Stull	400W	59.0	12.4	2.8	0.8	3.0	79.3	1.9

[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 3. Some Characteristics of Corn Varieties Tested in Northern Alabama, 1971

Brand name	Hybrid or variety	Cytoplasm type[1]	Yield per acre[2]	Lodged stalks	Quality[3]	Ears per stalk	Height of ears	Shelling	Husk[3]
			Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
McCurdy--------	67-14	N	106.7	3.8	1.3	0.9	3.6	81.1	2.7
Pioneer--------	3147	N	105.1	2.3	2.2	0.9	3.8	83.6	2.8
Pioneer--------	3191	N	102.8	2.1	1.9	0.9	3.6	85.0	2.0
Pioneer--------	3369A	N	101.9	2.2	1.8	0.9	3.3	84.2	2.7
Pennington-----	CHR-W	N	100.5	7.9	2.4	1.1	3.8	81.8	2.1
McCurdy--------	67-14	B(50/50)	100.1	5.0	1.9	0.9	3.3	82.0	2.1
Pioneer--------	3179	N	99.9	5.3	2.3	0.9	3.7	83.7	2.6
Stull----------	807SX	N	97.2	5.5	2.6	0.9	3.4	81.6	2.5
Funk's---------	G-795W-1	N	96.4	8.1	2.6	1.1	3.5	81.3	1.8
Pioneer--------	3151	N	91.8	4.4	2.3	0.9	3.8	81.6	2.1
Pioneer--------	511A	N	91.2	7.1	2.2	1.1	3.6	83.4	2.1
ACCO----------	AR-03801	N	90.3	14.1	2.8	0.9	3.9	84.6	1.8
P.A.G.---------	644W	N	88.9	4.9	2.5	0.9	4.1	82.7	2.1
P.A.G.---------	492	N	88.0	4.2	2.6	0.9	3.7	80.5	2.2
Funk's---------	G-5757	N	85.0	5.3	2.4	1.0	3.4	83.9	2.2
McCurdy--------	67-14	T	84.5	8.5	2.0	1.0	3.3	81.5	1.5
Funk's---------	G-4761	N	83.8	3.5	2.2	0.9	3.4	84.8	2.3
Stull----------	307Y	T	81.4	14.1	2.9	1.0	3.7	81.1	2.3
--- ----------	Mosby	N	78.9	13.9	2.9	1.0	3.4	82.6	2.1
Funk's---------	G-795W-1 (F_2)[4]	N	78.4	9.6	2.8	1.0	3.5	80.3	1.8
Excel----------	1022	N	77.6	8.6	2.6	0.9	4.0	82.2	2.5
DeKalb---------	F880	N	69.3	10.2	2.8	1.0	3.6	84.6	2.7
Funk-s---------	G-4895W	N	66.8	2.6	2.8	1.0	3.5	80.6	1.6
Stull----------	400W	N	59.8	13.2	3.2	0.9	2.8	81.6	1.7
ACCO----------	AR-03802	N	47.7	2.7	3.1	1.0	3.4	87.1	1.4

1/ N = normal; T = Texas; B = Blend.

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

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

4/ Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 4. 1971 Yields of Corn Varieties by Locations and Regional Averages for 1-4 Years in Northern Alabama[1/]

Brand name	Hybrid or variety	1971 cytoplasm type[2/]	Belle Mina	Crossville	Winfield	Regional average yield per acre: 1-year 1971	2-year 1969-71[3/]	3-year 1968-71[3/]	4-year 1967-71[3/]
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.
Funk's--------	G-795W-1	N	120.0	105.4	63.8	96.4	76.4	76.3	81.5
Stull---------	807SX	N	97.1	109.7	84.9	97.2	73.0	73.1	78.0
Stull---------	400W	N	58.0	56.0	65.4	59.8	59.0	62.9	70.5
----------	Mosby	N	83.6	85.0	68.2	78.9	61.3	60.8	62.3
Funk's--------	G-5757	N	99.1	98.7	57.2	85.0	72.1	72.5	
Pioneer-------	511A	N	107.5	100.5	65.6	91.2	75.9		
Funk's--------	G-4761	N	95.9	96.5	59.1	83.8	71.4		
McCurdy-------	67-14	N	121.9	122.9	75.4	106.7			
Pioneer-------	3147	N	125.2	127.6	62.5	105.1			
Pioneer-------	3191	N	118.0	119.4	71.0	102.8			
Pioneer-------	3369A	N	112.5	119.7	73.5	101.9			
Pennington----	CHR-W	N	111.5	112.1	78.0	100.5			
McCurdy	67-14	B(50/50)	119.9	106.5	73.9	100.1			
Pioneer-------	3179	N	115.3	125.2	59.2	99.9			
Pioneer-------	3151	N	100.8	114.0	60.4	91.8			
ACCO----------	AR-03801	N	88.5	107.1	75.3	90.3			
P.A.G.--------	644W	N	104.5	102.5	59.7	88.9			
P.A.G.--------	492	N	99.1	111.9	53.1	88.0			
McCurdy-------	67-14	T	116.9	78.9	57.6	84.5			
Stull---------	307Y	T	96.7	89.6	58.0	81.4			
Funk's------	G-795W-1(F_2)[4/]	N	79.0	80.8	75.3	78.4			
Excel---------	1022	N	83.0	86.8	63.2	77.6			
DeKalb--------	F880	N	72.6	73.9	61.6	69.3			
Funk's--------	G-4895W	N	73.4	71.5	55.6	66.8			
ACCO----------	AR-03802	N	36.8	48.8	57.5	47.7			
Test average			97.4	98.0	65.4				
LSD (.05)			13.2	15.0	26.2				
CV %			9.6	10.8	28.5				

[1/] Yields adjusted to 15.5% moisture and 56 lb. per bushel.

[2/] N = normal; T = Texas; B = blend.

[3/] Does not include 1970 data.

[4/] Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 5. Some Characteristics of Corn Hybrids Tested Three Years in Central Alabama, 1968-1971[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-5945	75.4	9.0	2.4	1.1	3.9	80.5	2.3
Funk's----------	G-795W-1	72.7	22.4	2.8	1.1	3.3	79.0	2.6
Funk's----------	G-4949	69.5	6.1	2.5	1.0	3.8	80.1	2.5
Pioneer---------	511A	68.0	18.5	2.4	1.1	3.4	78.7	2.3
P.A.G.----------	751	67.0	13.9	2.5	1.2	4.0	78.1	2.3
----------	Mosby	41.5	25.6	3.3	0.9	3.1	77.2	3.0

[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 Hybrids Tested Two years in Central Alabama, 1969-1971[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-5945	77.9	8.1	2.5	1.1	4.0	80.3	2.2
Funk's----------	G-795W-1	75.0	17.7	2.7	1.1	3.4	79.0	2.3
Funk's----------	G-4949	71.3	5.6	2.6	1.1	4.0	79.9	2.2
Funk's----------	G-5940	70.0	5.7	2.8	1.0	3.9	81.1	2.2
Funk's----------	G-4761	68.3	7.8	2.7	0.9	3.1	82.5	2.3
Pioneer---------	511A	67.9	17.3	2.4	1.1	3.5	78.5	2.0
P.A.G.----------	751	67.6	12.1	2.6	1.2	4.2	77.9	2.2
----------	Mosby	43.7	24.4	3.0	0.9	3.2	77.2	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 7. Some Characteristics of Corn Varieties Tested in Central Alabama, 1971

Brand name	Hybrid or variety	Cytoplasm type[1]	Yield per acre[2]	Lodged stalks	Quality[3]	Ears per stalk	Ear height	Shelling	Husk[3]
			Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
Pioneer-------	3147	N	110.5	4.0	3.1	1.1	4.1	80.7	2.7
Funk's--------	G-5945	N	100.3	5.9	1.9	1.2	4.6	81.1	1.5
Pennington----	CHR-W	N	99.5	11.2	2.2	1.3	4.0	80.1	1.4
Funk's--------	G-795W-1	N	99.1	13.8	2.3	1.2	3.9	79.9	1.8
McCurdy-------	67-14	N	98.3	6.1	1.9	1.0	3.5	79.7	2.5
Funk's--------	G-4949	N	96.1	3.1	2.0	1.2	4.6	81.1	1.7
McNair--------	440F	N	95.8	8.2	2.3	1.2	4.1	81.8	2.3
Funk's--------	G-5940	N	95.6	4.2	2.1	1.0	4.4	82.5	1.5
McNair--------	508	B	94.9	8.6	2.1	1.4	4.3	80.5	1.9
Funk's--------	G-4761	N	93.3	3.2	2.3	1.0	3.6	83.9	1.7
Pioneer-------	3369A	N	91.1	7.4	2.1	1.0	3.4	80.1	2.6
Pioneer-------	511A	N	89.3	14.5	1.9	1.3	3.9	79.5	1.5
P.A.G.--------	751	N	87.7	9.4	2.1	1.3	4.7	79.4	1.7
McCurdy-------	67-14	B(50/50)	87.0	9.6	2.1	1.0	3.5	79.1	1.9
Pioneer-------	3191	N	86.6	7.1	2.7	1.0	3.7	80.7	2.0
Funk's--------	G-5945	T	80.7	16.5	2.8	1.1	4.0	80.5	1.3
Funk's--------	G-795W-1 (F_2)[4]	N	77.0	20.3	3.0	1.2	3.7	78.9	1.5
Excel---------	1022	N	76.1	12.6	2.8	1.0	4.4	79.6	2.1
McCurdy-------	67-14	T	68.5	18.5	2.7	0.9	3.0	78.5	1.9
Pennington----	7-C-11B	B	68.5	22.8	2.5	1.3	4.4	78.7	1.4
--- --------	Mosby	N	66.5	24.7	2.9	1.1	3.6	78.8	2.1
Funk's--------	G-4895W	N	57.9	10.2	3.2	1.0	3.5	76.4	1.5

1/ N = normal; T = Texas; B = Blend.

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

3/ 1 = excellent; 2 = good, 3 = fair; 4 = poor; 5 = very poor.

4/ Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 8. 1971 Yields of Corn Varieties by Locations and Regional Averages for 1-4 Years in Central Alabama[1/]

Brand name	Hybrid or variety	1971 cytoplasm type[2/]	1971 yield per acre					Regional average yield per acre			
			Auburn	Camden	Camp Hill	Prattville	Tallassee	1-year 1971	2-year 1969-71[3/]	3-year 1968-71[3/]	4-year 1967-71[3/]
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.
Funk's--------	G-5945	N	94.6	95.1	98.5	103.7	109.4	100.3	77.9	75.4	85.7
Funk's--------	G-795W-1	N	92.2	87.5	82.4	130.2	103.1	99.1	75.0	72.7	83.3
P.A.G.--------	751	N	85.6	73.5	82.6	101.5	95.2	87.7	67.6	67.0	81.2
Pioneer-------	511A	N	75.8	90.3	85.6	95.1	99.5	89.3	67.9	68.0	77.7
----------	Mosby	N	71.5	62.8	54.6	74.9	68.7	66.5	43.7	41.5	50.0
Funk's--------	G-4949	N	100.4	98.0	91.2	95.7	95.0	96.1	71.3	69.5	
Funk's--------	G-5940	N	88.2	92.0	85.1	109.8	102.8	95.6	70.0		
Funk's--------	G-4761	N	86.4	75.9	90.6	110.2	103.5	93.3	68.3		
Pioneer-------	3147	N	102.4	104.3	92.7	141.5	111.5	110.5			
Pennington----	CHR-W	N	89.7	91.3	91.8	118.4	106.2	99.5			
McCurdy-------	67-14	N	99.6	111.7	61.9	118.7	99.7	98.3			
McNair--------	440F	N	98.5	93.6	81.4	106.0	99.4	95.8			
McNair--------	508	B	97.1	97.8	70.2	110.8	98.6	94.9			
Pioneer-------	3369A	N	93.2	91.1	65.2	124.8	81.3	91.1			
McCurdy-------	67-14	B(50/50)	95.9	78.1	49.9	117.5	93.5	87.0			
Pioneer-------	3191	N	92.7	80.8	72.6	104.5	82.6	86.6			
Funk's--------	G-5945	T	94.5	65.1	54.7	109.5	79.6	80.7			
Funk's-----	G-795W-1(F_2)[4/]	N	87.1	55.6	63.6	97.0	81.8	77.0			
Excel---------	1022	N	79.2	59.4	71.5	86.1	84.3	76.1			
McCurdy-------	67-14	T	84.8	62.5	21.3	98.0	75.9	68.5			
Pennington----	7-C-11B	B	80.6	61.3	49.5	91.9	59.4	68.5			
Funk's--------	G-4895W	N	70.2	44.8	41.7	70.2	62.6	57.9			
Test average			89.0	80.6	70.8	105.2	90.6				
LSD (.05)			16.4	12.2	18.0	12.2	11.9				
CV %			13.1	10.8	17.9	8.2	9.4				

[1/] Yields adjusted to 15.5% moisture and 56 lb. per bushel.
[2/] N = normal; T = Texas; B = blend.
[3/] Does not include 1970 data.
[4/] Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 9. Some Characteristics of Corn Hybrids Tested Three Years in Southern Alabama, 1968-1971[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-5945	79.3	7.6	2.4	1.0	3.4	83.5	2.3
Funk's----------	G-4949	78.8	5.8	2.6	1.0	3.5	82.3	2.3
P.A.G.----------	751	76.3	11.3	2.3	1.2	3.6	80.7	1.9
Pennington------	7-C-11A	76.2	11.2	3.1	1.0	3.3	81.5	2.3
McNair----------	440F	72.9	13.9	2.5	1.0	3.2	83.6	2.4
Coker-----------	71	62.6	8.0	2.0	1.0	3.6	79.1	1.8
----------	Mosby	55.1	21.7	3.4	0.9	3.1	79.9	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 Hybrids Tested Two Years in Southern Alabama, 1969-1971[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	95.6	26.1	2.5	1.1	3.1	83.1	2.5
Pennington	CHR-W	91.4	18.8	2.3	1.1	3.1	81.0	2.3
Pennington	7-C-11A	88.5	13.8	3.4	1.0	3.0	82.2	2.4
P.A.G.	751	88.0	13.2	2.1	1.2	3.5	81.2	1.9
Funk's	G-4949	87.9	5.2	2.5	1.0	3.5	83.2	2.3
Funk's	G-5945	87.3	7.7	2.3	1.0	3.4	84.7	2.4
Funk's	G-5940	82.4	6.3	2.4	0.9	3.4	82.9	1.8
McNair	440F	80.5	14.4	2.5	1.1	3.2	83.3	2.5
Coker	71	74.6	8.9	1.9	1.1	3.5	79.6	1.9
----------	Mosby	66.3	25.7	3.2	1.0	2.9	80.8	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 11. Some Characteristics of Corn Varieties Tested in Southern Alabama, 1971

Brand name	Hybrid or variety	Cytoplasm type[1]	Yield per acre[2]	Lodged stalks	Quality[3]	Ears per stalk	Height of ears	Shelling	Husk[3]
			Bu.	Pct.	Rating	No.	Ft.	Pct.	Rating
Pennington	GHR-W	N	114.6	18.5	1.6	1.2	3.4	80.9	2.2
Funk's	G-795W-1	N	113.5	27.6	2.0	1.2	3.3	83.6	2.6
Pennington	7-C-11A	N	112.1	12.9	3.9	1.0	3.3	85.0	3.2
McCurdy	67-14	N	110.6	5.2	1.8	1.0	2.8	80.6	2.5
Funk's	G-4949	N	110.3	3.5	2.4	1.1	3.9	83.8	2.4
McNair	508	B	107.2	9.7	2.1	1.3	3.8	82.4	2.2
P.A.G.	751	N	106.3	12.8	1.9	1.3	3.8	81.6	1.7
Funk's	G-4761	N	104.8	4.1	1.9	1.0	2.9	87.5	2.2
Funk's	G-5940	N	102.8	5.9	2.3	1.0	3.7	83.4	1.6
Funk's	G-5945	N	102.2	4.5	2.0	1.1	3.8	85.6	2.5
McCurdy	67-14	B(50/50)	98.6	12.3	1.9	1.0	2.7	81.2	2.7
Coker	71	N	96.0	7.6	1.4	1.2	3.8	79.4	1.8
McNair	440F	N	93.8	15.0	2.4	1.1	3.6	83.7	3.0
Funk's	G-5945	T	88.5	15.0	2.1	1.0	3.4	83.4	1.8
McCurdy	67-14	T	86.4	16.1	2.3	1.0	2.7	82.2	2.4
Funk's	G-795W-1(F_2)[4]	N	85.0	28.2	2.9	1.2	3.0	80.7	2.4
Pennington	7-C-11C	T	83.0	15.3	2.2	1.1	3.5	83.0	2.2
	Mosby	N	82.8	22.8	3.2	1.1	3.2	81.2	2.4

[1] N = normal; T = Texas; B = blend.

[2] Yields adjusted to 15.5% moisture and 56 lb. per bushel.

[3] 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

[4] Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 12. 1971 Yield of Corn Varieties by Locations and Regional Averages for 1-4 Years in Southern Alabama[1/]

Brand name	Hybrid or variety	1971 cytoplasm type[2/]	1971 yield per acre				Regional average yield per acre			
			Fairhope	Brewton	Monroeville	Headland	1-year 1971	2-year 1969-71[3/]	3-year 1968-71[3/]	4-year 1967-71[3/]
			Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.	Bu.
Funk's	G-4949	N	131.3	127.5	64.2	118.3	110.3	87.9	78.8	81.0
Funk's	G-5945	N	115.1	114.2	61.6	118.1	102.2	87.3	79.3	80.7
P.A.G.	751	N	124.0	121.9	57.3	122.2	106.3	88.0	76.3	80.0
McNair	440F	N	117.0	102.3	51.4	104.7	93.8	80.5	72.9	77.5
Coker	71	N	118.2	97.3	50.3	118.1	96.0	74.6	62.6	66.9
	Mosby	N	93.0	89.2	48.9	100.2	82.2	66.3	55.1	54.7
Pennington	7-C-11A	N	140.0	124.7	67.3	116.5	112.1	88.5	76.2	
Funk's	G-795W-1	N	135.5	125.6	64.8	128.2	113.5	95.6		
Pennington	CHR-W	N	139.4	133.7	69.8	115.4	114.6	91.4		
Funk's	G-5940	N	111.9	113.5	66.1	119.8	102.8	82.4		
McCurdy	67-14	N	137.0	130.2	65.9	109.3	110.6			
McNair	508	B	130.1	107.8	58.4	132.5	107.2			
Funk's	G-4761	N	122.4	115.1	70.2	111.7	104.8			
McCurdy	67-14	B(50/50)	130.8	107.3	62.1	94.3	98.6			
Funk's	G-5945	T	119.6	87.1	56.0	91.6	88.5			
McCurdy	67-14	T	126.7	75.5	57.7	86.0	86.4			
Funk's	G-795W-1(F_2)[4/]	N	112.3	91.9	47.9	87.8	85.0			
Pennington	7-C-11C[2]	T	116.9	79.3	50.0	86.0	83.0			
Test average			123.4	108.0	59.4	108.9				
LSD (.05)			10.1	12.6	7.2	12.8				
CV %			5.8	8.2	8.6	8.2				

1/ Yields adjusted to 15.5% moisture and 56 lb. per bushel.
2/ N = normal; T = Texas; B = blend.
3/ Does not include 1970 data.
4/ Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.

Table 13. Some Characteristics of Several Flint Hybrids Tested at Auburn - 1971

Brand name	Hybrid	Yield per acre[1/]	Lodged stalks	Ears per stalk	Height of ears	Shelling
		Bu.	Pct.	No.	Ft.	Pct.
Dent						
Funk's	G-795W-1	124.6	7.3	1.2	3.7	82.0
Flint						
DeKalb	Abati I	82.2	6.0	0.9	3.6	83.0
Funk's	G-250	80.1	21.5	1.1	3.3	83.0
Continental	1104	79.7	12.0	1.2	3.7	84.0
Continental	1201	78.5	5.0	1.1	3.4	82.0
Continental	1107	76.4	9.0	1.2	3.8	84.0
Continental	1301	58.2	7.5	0.9	2.3	79.0

[1/] Yields adjusted to 15.5% moisture and 56 lb. per bushel.

Table 14. Yield and Lodging of Irrigated and Unirrigated Corn Varieties, Camden - 1971[1/]

Brand name	Hybrid or variety	Cytoplasm type[2/]	Irrigated[3/] Yield per acre[4/]	Irrigated[3/] Lodged stalks	Unirrigated Yield per acre[4/]	Unirrigated Lodged stalks
			Bu.	Pct.	Bu.	Pct.
McCurdy	67-14	N	118.6	4.4	111.7	0.0
McNair	508	B	117.2	5.1	97.8	0.9
Pioneer	511A	N	116.7	11.2	90.3	5.1
Pennington	CHR-W	N	114.2	13.3	91.3	4.8
Funk's	G-4949	N	113.9	5.6	98.0	0.0
Funk's	G-5945	N	112.6	5.8	95.1	2.8
Pioneer	3147	N	112.5	0.0	104.3	0.4
Funk's	G-795W-1	N	110.8	12.1	87.5	7.0
Pioneer	3191	N	109.2	0.4	80.8	0.5
McNair	440F	N	107.9	2.1	93.6	0.9
Funk's	G-5940	N	106.4	4.6	92.0	0.5
Pioneer	3369A	N	103.1	1.6	91.1	1.3
McCurdy	67-14	B(50/50)	100.6	6.3	78.1	1.6
Funk's	G-4761	N	97.7	2.8	75.9	3.5
P.A.G.	751	N	92.9	13.7	73.5	1.6
McCurdy	67-14	T	87.8	15.7	62.5	2.6
Funk's	G-5945	T	87.1	8.6	65.1	3.7
Excel	1022	N	86.4	10.9	59.4	6.3
Pennington	7-C-11B	B	75.9	19.7	61.3	11.9
Funk's	G-795W-1 (F_2)[5/]	N	75.6	22.3	55.6	12.6
	Mosby	N	74.4	20.2	62.8	7.7
Funk's	G-4895W	N	57.6	6.6	44.8	3.8

[1/] Planted: April 26.
[2/] N = Normal; T = Texas; B = Blend.
[3/] Irrigated: April 26 (at planting)
May 28
[4/] Yields adjusted to 15.5% moisture and 56 lb. per bushel.
[5/] Second generation variety obtained by saving Funk's G-795W-1 (F_1) seed.