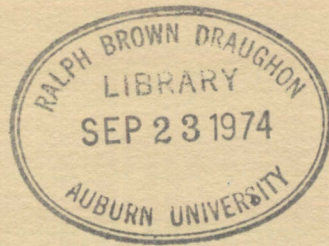


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No. 12



Performance  
of  
Corn  
Varieties  
in  
Alabama,  
1973

DEPARTMENT OF AGRONOMY AND SOILS  
DEPARTMENTAL SERIES NO. 12  
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AGRICULTURAL EXPERIMENT STATION/AUBURN UNIVERSITY  
R. Dennis Rouse, Director Auburn, Alabama





*corn, para memo*  
" *Performance of corn varieties in Alabama.*

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## Performance of Corn Varieties in Alabama, 1973

David H. Teem<sup>1/</sup>

Corn performance tests were conducted at 12 locations by the Auburn University Agricultural Experiment Station in 1973. These tests are conducted annually to determine relative production of many varieties offered for sale and to 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 to all performance characteristics when choosing a variety since the proper choice may mean the difference between profit and loss.

Corn yields in most areas of Alabama were above average in 1973. Yields of more than 100 bushels per acre were obtained in 9 out of the 12 tests. With one exception, disease incidence was generally low at most locations. Leaf rust occurred throughout the Gulf Coast region and all varieties planted at the Gulf Coast Substation were susceptible to the disease; however, yields in this test did not appear to be appreciably affected.

In side-by-side irrigated and unirrigated tests at Camden, irrigation resulted in a large increase in yield. This test was not intended to show maximum production with irrigation. Plant population, fertilization and other factors were the same for both tests. The important result was that the relative yield of varieties was not the same irrigated as unirrigated. Higher plant population and fertilization would likely result in a greater response to irrigation. As a supplement to rainfall this test received 1 inch of water June 19, July 2, July 6, and July 13.

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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 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 the 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 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. Results of irrigated and unirrigated tests at Camden are shown in Table 14. Results from preliminary tests are shown in Tables 15-17. 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 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 significant difference) is given for yield at each location. This means that if the difference between two hybrids being compared is greater than the L.S.D. value, the difference is considered real at the (.05) level of probability.

Long term averages are more reliable when choosing a hybrid. Three years testing is considered sufficient to give a good measure of the

performance of varieties. A rating system was used to determine the list of acceptable hybrids. 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 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; preferably, 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 to plant in 1974.

#### ACKNOWLEDGMENT

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Table 1. Location and Cultural Practices in 1973 Tests

| Location                  | Planting date | Nitrogen (lbs/A) | Row width (in.) | Plant population (thousand) |
|---------------------------|---------------|------------------|-----------------|-----------------------------|
| <u>Northern Alabama</u>   |               |                  |                 |                             |
| Belle Mina-----           | 5/4           | 111              | 42              | 13                          |
| Crossville-----           | 5/1           | 140              | 42              | 18                          |
| Winfield-----             | 5/16          | 122              | 40              | 16                          |
| <u>Central Alabama</u>    |               |                  |                 |                             |
| Auburn-----               | 5/14          | 140              | 40              | 19                          |
| Camden (unirrigated)----- | 4/20          | 200              | 38              | 18                          |
| Camden (irrigated)-----   | 4/20          | 200              | 38              | 18                          |
| Camp Hill-----            | 5/16          | 130              | 42              | 16                          |
| Prattville-----           | 5/5           | 120              | 42              | 13                          |
| Tallassee-----            | 4/13          | 124              | 40              | 13                          |
| <u>Southern Alabama</u>   |               |                  |                 |                             |
| Brewton-----              | 4/24          | 120              | 36              | 18                          |
| Fairhope-----             | 4/10          | 140              | 38              | 18                          |
| Headland-----             | 4/16          | 118              | 36              | 14                          |
| Monroeville-----          | 4/30          | 120              | 42              | 15                          |

Table 2. Some Characteristics of Corn Varieties Tested Three Years in Northern Alabama, 1971-1973

| Brand name     | Hybrid<br>or<br>variety | Yield<br>per<br>acre <sup>1/</sup><br>Bu. | Lodged<br>stalks<br>Pct. | Quality <sup>2/</sup><br>Rating | Ears<br>per<br>stalk<br>No. | Height<br>of<br>ears<br>Ft. | Shelling<br>Pct. | Husk <sup>2/</sup><br>Rating |
|----------------|-------------------------|---|--------------------------|---------------------------------|-----------------------------|-----------------------------|------------------|------------------------------|
| McCurdy-----   | 67-14                   | 111                                       | 4.8                      | 1.5                             | 1.0                         | 3.7                         | 80.4             | 2.5                          |
| Pioneer-----   | 3147                    | 111                                       | 3.1                      | 2.2                             | 1.0                         | 4.0                         | 83.1             | 2.8                          |
| Pioneer-----   | 3179                    | 111                                       | 6.1                      | 1.9                             | 1.0                         | 4.0                         | 84.1             | 2.6                          |
| Pioneer-----   | 3369A                   | 109                                       | 4.0                      | 1.9                             | 1.0                         | 3.5                         | 83.4             | 2.5                          |
| Pioneer-----   | 3191                    | 105                                       | 4.5                      | 2.1                             | 1.0                         | 3.7                         | 84.5             | 2.0                          |
| Pioneer-----   | 511A                    | 101                                       | 8.3                      | 2.2                             | 1.2                         | 4.0                         | 81.7             | 2.0                          |
| Pennington---- | CHR-W                   | 101                                       | 8.6                      | 2.3                             | 1.1                         | 4.0                         | 81.4             | 1.8                          |
| Funk's-----    | G-795W-1                | 99  | 10.0                     | 2.4                             | 1.1                         | 3.8                         | 80.9             | 1.8                          |
| P.A.G.-----    | 644W                    | 94  | 6.0                      | 2.3                             | 0.9                         | 4.3                         | 82.2             | 2.1                          |
| Funk's-----    | G-4761                  | 94  | 4.1                      | 2.2                             | 1.0                         | 3.6                         | 84.7             | 2.0                          |
| Funk's-----    | G-5757                  | 92  | 5.3                      | 2.4                             | 1.0                         | 3.6                         | 83.3             | 2.2                          |
| Stull-----     | 807 SX                  | 88  | 5.8                      | 2.5                             | 0.9                         | 3.5                         | 82.0             | 2.8                          |
| -----          | Mosby                   | 79  | 14.4                     | 2.9                             | 1.0                         | 3.9                         | 83.0             | 2.3                          |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

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



Table 3. Some Characteristics of Corn Varieties Tested Two Years in Northern Alabama, 1972-73

| Brand name      | Hybrid<br>or<br>variety | Yield                            | Lodged         | Quality <sup>2/</sup> | Ears                | Height            | Shelling | Husk <sup>2/</sup> |
|-----------------|-------------------------|----------------------------------|----------------|-----------------------|---------------------|-------------------|----------|--------------------|
|                 |                         | per<br>acre <sup>1/</sup><br>Bu. | stalks<br>Pct. | Rating                | per<br>stalk<br>No. | of<br>ears<br>Ft. |          | Pct.               |
| Pioneer-----    | 3179                    | 116                              | 6.5            | 1.7                   | 1.0                 | 4.1               | 84.3     | 2.4                |
| Pioneer-----    | 3147                    | 114                              | 3.5            | 2.2                   | 1.0                 | 4.1               | 82.8     | 2.8                |
| McCurdy-----    | 67-14                   | 113                              | 5.2            | 1.6                   | 1.0                 | 3.8               | 80.1     | 2.4                |
| Pioneer-----    | 3369A                   | 113                              | 5.0            | 1.9                   | 1.0                 | 3.6               | 83.1     | 2.4                |
| McCurdy-----    | MSX88                   | 108                              | 3.6            | 2.1                   | 1.0                 | 3.6               | 82.1     | 2.6                |
| Pioneer-----    | 511A                    | 106                              | 8.9            | 2.2                   | 1.2                 | 4.2               | 81.0     | 1.9                |
| Pioneer-----    | 3191                    | 106                              | 5.6            | 2.2                   | 1.0                 | 3.8               | 84.3     | 2.0                |
| DeKalb-----     | 805A                    | 103                              | 6.6            | 2.1                   | 1.0                 | 3.6               | 82.1     | 2.6                |
| Pennington----- | CHR-W                   | 100                              | 9.0            | 2.3                   | 1.2                 | 4.0               | 81.2     | 1.6                |
| Funk's-----     | G-795W-1                | 100                              | 10.9           | 2.4                   | 1.2                 | 4.0               | 80.7     | 1.9                |
| Funk's-----     | G-4761                  | 99                               | 4.4            | 2.2                   | 1.0                 | 3.7               | 84.6     | 1.9                |
| P.A.G.-----     | 644W                    | 96                               | 6.5            | 2.4                   | 1.0                 | 4.4               | 82.0     | 2.1                |
| Funk's-----     | G-5757                  | 96                               | 5.3            | 2.5                   | 1.0                 | 3.7               | 83.0     | 2.2                |
| McNair-----     | 338                     | 96                               | 7.0            | 2.2                   | 1.0                 | 3.8               | 81.1     | 2.0                |
| Funk's-----     | G-4808                  | 96                               | 4.7            | 2.3                   | 1.0                 | 3.8               | 81.4     | 1.9                |
| Stull-----      | 807SX                   | 83                               | 6.0            | 2.4                   | 0.9                 | 3.6               | 82.2     | 2.9                |
| -----           | Mosby                   | 80                               | 14.6           | 2.8                   | 1.0                 | 4.1               | 83.2     | 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 4. Some Characteristics of Corn Varieties Tested in Northern Alabama, 1973

| Brand name         | Hybrid<br>or<br>variety | Yield                     | Lodged | Quality <sup>2/</sup> | Ears         | Height     | Shelling | Husk <sup>2/</sup> |
|--------------------|-------------------------|---------------------------|--------|-----------------------|--------------|------------|----------|--------------------|
|                    |                         | per<br>acre <sup>1/</sup> | stalks | Rating                | per<br>stalk | of<br>ears |          | Pct.               |
|                    |                         | Bu.                       | Pct.   |                       | No.          | Ft.        |          |                    |
| Pioneer-----       | 3369A                   | 112                       | 1.3    | 2.1                   | 1.0          | 3.5        | 81.5     | 2.3                |
| Pioneer-----       | 3179                    | 111                       | 3.1    | 1.8                   | 1.0          | 4.0        | 84.1     | 2.7                |
| McCurdy-----       | 67-14                   | 110                       | 1.6    | 1.8                   | 1.0          | 3.6        | 80.6     | 2.3                |
| Pioneer-----       | 3147                    | 106                       | 0.9    | 2.3                   | 1.0          | 4.2        | 82.7     | 2.8                |
| DeKalb-----        | XL-72A                  | 103                       | 2.3    | 1.9                   | 1.0          | 3.4        | 83.4     | 2.9                |
| McCurdy-----       | MSX88                   | 101                       | 1.0    | 2.1                   | 1.0          | 3.6        | 81.2     | 2.0                |
| Funk's-----        | G-4646                  | 101                       | 3.2    | 2.2                   | 1.0          | 3.5        | 83.1     | 3.3                |
| Funk's-----        | G-4864                  | 100                       | 0.7    | 2.1                   | 0.9          | 4.4        | 82.0     | 1.5                |
| Pennington-----    | CHR-W                   | 100                       | 4.2    | 2.3                   | 1.1          | 4.1        | 80.8     | 1.5                |
| McCurdy-----       | 67-10                   | 99                        | 2.3    | 1.8                   | 1.0          | 3.5        | 81.2     | 1.8                |
| Pioneer-----       | 3191                    | 99                        | 1.7    | 2.2                   | 1.0          | 3.8        | 83.1     | 1.8                |
| Pioneer-----       | 511A                    | 99                        | 4.5    | 2.3                   | 1.1          | 4.2        | 80.4     | 2.0                |
| Coker-----         | 16                      | 98                        | 3.2    | 2.2                   | 1.0          | 3.3        | 83.9     | 2.8                |
| DeKalb-----        | 805A                    | 98                        | 1.5    | 2.0                   | 0.9          | 3.4        | 81.5     | 2.3                |
| Funk's-----        | G-4761                  | 97                        | 1.8    | 2.3                   | 1.0          | 3.5        | 84.3     | 1.6                |
| McNair-----        | X300                    | 97                        | 2.2    | 1.9                   | 1.0          | 3.6        | 80.6     | 1.7                |
| Funk's-----        | G-795W-1                | 96                        | 5.3    | 2.3                   | 1.1          | 4.0        | 79.8     | 1.8                |
| Funk's-----        | G-5757                  | 92                        | 4.2    | 2.3                   | 1.0          | 3.5        | 83.0     | 2.1                |
| McNair-----        | 338                     | 90                        | 2.4    | 2.3                   | 1.0          | 3.7        | 82.0     | 2.0                |
| Northrup-King----- | PX77                    | 90                        | 2.0    | 2.2                   | 1.0          | 3.5        | 79.0     | 1.7                |
| P.A.G.-----        | 644W                    | 90                        | 2.7    | 2.4                   | 1.0          | 4.4        | 82.6     | 2.0                |
| Funk's-----        | G-4808                  | 89                        | 3.8    | 2.3                   | 1.0          | 3.6        | 81.4     | 1.7                |
| McNair-----        | X210                    | 87                        | 1.7    | 1.9                   | 0.9          | 3.3        | 79.2     | 1.8                |
| McCurdy-----       | 908.W                   | 84                        | 4.1    | 2.2                   | 0.9          | 4.3        | 81.3     | 2.3                |
| Northrup-King----- | PX670                   | 84                        | 2.0    | 2.3                   | 0.9          | 3.5        | 83.4     | 2.3                |
| Stull-----         | 807SX                   | 79                        | 4.0    | 2.3                   | 0.9          | 3.5        | 82.3     | 2.4                |
| -----              | Mosby                   | 75                        | 11.1   | 2.7                   | 1.0          | 4.1        | 84.0     | 2.5                |

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. 1973 Yield of Corn Varieties by Location and Regional Averages for 1-5 Years in Northern Alabama<sup>1/</sup>

| Brand name      | Hybrid<br>or<br>variety | Belle<br>Mina<br>Bu. | Crossville<br>Bu. | Winfield<br>Bu. | Regional average yield per acre |                          |                          |  |  |
|-----------------|-------------------------|----------------------|-------------------|-----------------|---------------------------------|--------------------------|--------------------------|--|--|
|                 |                         |                      |                   |                 | 1-year<br>1973<br>Bu.           | 2-year<br>1972-73<br>Bu. | 3-year<br>1971-73<br>Bu. | 4-year <sup>2/</sup><br>1969-73 <sup>2/</sup><br>Bu. | 5-year <sup>2/</sup><br>1968-73 <sup>2/</sup><br>Bu. |
| Funk's-----     | G-795W-1                | 73                   | 127               | 88              | 96                              | 101                      | 99                       | 88   | 86   |
| Funk's-----     | G-5757                  | 80                   | 129               | 68              | 92                              | 96                       | 92                       | 84   | 82   |
| Stull-----      | 807 SX                  | 72                   | 117               | 47              | 79                              | 84                       | 88                       | 78   | 77   |
| -----           | Mosby                   | 54                   | 114               | 57              | 75                              | 80                       | 79                       | 70   | 68   |
| Pioneer-----    | 511A                    | 74                   | 129               | 92              | 99                              | 106                      | 101                      | 91   |  |
| Funk's-----     | G-4761                  | 88                   | 125               | 77              | 97                              | 99                       | 94                       | 85   |  |
| McCurdy-----    | 67-14                   | 93                   | 142               | 96              | 110                             | 113                      | 111                      |  |  |
| Pioneer-----    | 3147                    | 89                   | 131               | 98              | 106                             | 114                      | 111                      |  |  |
| Pioneer-----    | 3179                    | 98                   | 130               | 104             | 111                             | 116                      | 111                      |  |  |
| Pioneer-----    | 3369A                   | 95                   | 134               | 105             | 112                             | 113                      | 109                      |  |  |
| Pioneer-----    | 3191                    | 85                   | 116               | 96              | 99                              | 106                      | 105                      |  |  |
| Pennington----- | CHR-W                   | 69                   | 135               | 96              | 100                             | 101                      | 101                      |  |  |
| P.A.G.-----     | 644W                    | 74                   | 116               | 79              | 90                              | 96                       | 94                       |  |  |
| McCurdy-----    | MSX 88                  | 107                  | 114               | 83              | 101                             | 108                      |                          |  |  |
| DeKalb-----     | 805A                    | 87                   | 135               | 72              | 98                              | 103                      |                          |  |  |
| Funk's-----     | G-4808                  | 78                   | 109               | 81              | 89                              | 96                       |                          |  |  |
| McNair-----     | 338                     | 72                   | 118               | 80              | 90                              | 96                       |                          |  |  |
| DeKalb-----     | XL-72A                  | 94                   | 131               | 85              | 103                             |                          |                          |  |  |
| Funk's-----     | G-4864                  | 80                   | 132               | 90              | 101                             |                          |                          |  |  |
| Funk's-----     | G-4646                  | 94                   | 133               | 77              | 101                             |                          |                          |  |  |
| McCurdy-----    | 67-10                   | 90                   | 127               | 79              | 99                              |                          |                          |  |  |
| Coker-----      | 16                      | 86                   | 129               | 81              | 98                              |                          |                          |  |  |
| McNair-----     | X300                    | 84                   | 130               | 76              | 97                              |                          |                          |  |  |
| Northrup-King-- | PX77                    | 82                   | 122               | 66              | 90                              |                          |                          |  |  |
| McNair-----     | X210                    | 84                   | 114               | 63              | 87                              |                          |                          |  |  |
| McCurdy-----    | 908W                    | 76                   | 112               | 65              | 84                              |                          |                          |  |  |
| Northrup-King-- | PX670                   | 69                   | 111               | 71              | 84                              |                          |                          |  |  |
| Test average:   |                         | 82                   | 124               | 80              |                                 |                          |                          |  |  |
| L.S.D. (.05):   |                         | 14                   | 15                | 16              |                                 |                          |                          |  |  |
| C.V. (%)        |                         | 11.7                 | 8.3               | 14.0            |                                 |                          |                          |  |  |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

<sup>2/</sup> Does not include 1970 data.

Table 6. Some Characteristics of Corn Varieties Tested Three Years in Central Alabama, 1971-73.

| Brand name   | Hybrid<br>or<br>variety | Yield                            | Lodged         | Quality <sup>2/</sup> | Ears                | Height            | Shelling | Husk <sup>2/</sup> |
|--------------|-------------------------|----------------------------------|----------------|-----------------------|---------------------|-------------------|----------|--------------------|
|              |                         | per<br>acre <sup>1/</sup><br>Bu. | stalks<br>Pct. | Rating                | per<br>stalk<br>No. | of<br>ears<br>Ft. |          | Pct.               |
| Pioneer----- | 3147                    | 108                              | 4.3            | 2.8                   | 1.1                 | 3.8               | 81.1     | 2.4                |
| Funk's-----  | G-795W-1                | 97                               | 10.9           | 2.2                   | 1.2                 | 3.8               | 80.5     | 1.6                |
| Pioneer----- | 511A                    | 97                               | 10.2           | 2.1                   | 1.2                 | 3.8               | 80.1     | 1.8                |
| McNair-----  | 508                     | 97                               | 5.1            | 1.9                   | 1.3                 | 4.1               | 81.4     | 1.9                |
| Funk's-----  | G-5945                  | 97                               | 4.7            | 2.0                   | 1.1                 | 4.4               | 81.7     | 1.7                |
| McCurdy----- | 67-14                   | 95                               | 3.5            | 1.8                   | 1.0                 | 3.4               | 79.8     | 2.4                |
| Funk's-----  | G-4761                  | 94                               | 2.2            | 2.2                   | 1.1                 | 3.3               | 83.9     | 1.9                |
| Pioneer----- | 3369A                   | 93                               | 4.2            | 2.3                   | 1.0                 | 3.3               | 80.6     | 2.6                |
| Funk's-----  | G-4949                  | 92                               | 3.0            | 2.0                   | 1.1                 | 4.4               | 81.3     | 2.1                |
| P.A.G.-----  | 751                     | 92                               | 7.9            | 1.9                   | 1.3                 | 4.5               | 80.3     | 1.7                |
| -----        | Mosby                   | 66                               | 19.4           | 2.9                   | 1.0                 | 3.6               | 79.1     | 2.3                |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

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



Table 7. Some Characteristics of Corn Varieties Tested Two Years in Central Alabama, 1972-73

| Brand name      | Hybrid<br>or<br>variety | Yield                            | Lodged         | Quality <sup>2/</sup> | Ears                | Height            | Shelling | Husk <sup>2/</sup> |
|-----------------|-------------------------|----------------------------------|----------------|-----------------------|---------------------|-------------------|----------|--------------------|
|                 |                         | per<br>acre <sup>1/</sup><br>Bu. | stalks<br>Pct. | Rating                | per<br>stalk<br>No. | of<br>ears<br>Ft. |          | Pct.               |
| Pioneer -----   | 3147                    | 107                              | 4.5            | 2.7                   | 1.1                 | 3.7               | 81.3     | 2.3                |
| Pioneer -----   | 511A                    | 101                              | 8.7            | 2.1                   | 1.1                 | 3.7               | 80.5     | 1.9                |
| McNair -----    | 508                     | 98                               | 3.6            | 1.8                   | 1.3                 | 4.1               | 81.9     | 2.0                |
| Funk's -----    | G-795W-1                | 96                               | 9.6            | 2.1                   | 1.2                 | 3.7               | 80.9     | 1.7                |
| Pioneer -----   | 3369A                   | 95                               | 2.8            | 2.4                   | 1.0                 | 3.2               | 80.9     | 2.6                |
| Funk's -----    | G-4761                  | 95                               | 1.8            | 2.1                   | 1.1                 | 3.1               | 83.9     | 2.0                |
| Funk's -----    | G-5945                  | 94                               | 4.1            | 2.1                   | 1.1                 | 4.3               | 82.0     | 1.8                |
| P.A.G. -----    | 751                     | 94                               | 7.2            | 1.9                   | 1.3                 | 4.3               | 80.8     | 1.6                |
| Pioneer -----   | 3009                    | 93                               | 7.5            | 1.8                   | 1.0                 | 3.9               | 77.6     | 1.4                |
| McCurdy -----   | 67-14                   | 93                               | 2.3            | 1.8                   | 1.0                 | 3.3               | 79.8     | 2.3                |
| Greenwood ----- | 471                     | 91                               | 8.3            | 1.7                   | 1.1                 | 4.3               | 80.6     | 1.5                |
| McNair -----    | 338                     | 90                               | 4.9            | 2.2                   | 1.0                 | 3.3               | 80.6     | 1.9                |
| Pioneer -----   | 3030                    | 90                               | 3.9            | 1.8                   | 1.1                 | 4.0               | 78.0     | 1.3                |
| Funk's -----    | G-4808                  | 90                               | 4.1            | 2.1                   | 1.0                 | 3.2               | 80.0     | 2.0                |
| Greenwood ----- | 45                      | 89                               | 6.4            | 1.9                   | 1.1                 | 3.7               | 80.3     | 1.9                |
| Funk's -----    | G-4949                  | 89                               | 3.0            | 2.0                   | 1.0                 | 4.3               | 82.2     | 2.3                |
| P.A.G. -----    | 644-W                   | 89                               | 4.1            | 2.2                   | 1.0                 | 3.9               | 80.2     | 2.1                |
| -----           | Fla. 200A               | 85                               | 5.7            | 1.8                   | 1.1                 | 4.7               | 80.4     | 1.3                |
| -----           | Mosby                   | 66                               | 17.2           | 2.9                   | 1.0                 | 3.6               | 79.2     | 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;

Table 8. Some Characteristics of Corn Varieties Tested in Central Alabama, 1973

| Brand name     | Hybrid<br>or<br>variety | Yield                     | Lodged | Quality <sup>2/</sup> | Ears         | Height     | Shelling <sup>2/</sup> | Husk <sup>2/</sup> |
|----------------|-------------------------|---------------------------|--------|-----------------------|--------------|------------|------------------------|--------------------|
|                |                         | per<br>acre <sup>1/</sup> | stalks | Rating                | per<br>stalk | of<br>ears |                        | Pct.               |
|                |                         | Bu.                       | Pct.   |                       | No.          | Ft.        |                        |                    |
| Pioneer-----   | 3147                    | 95                        | 3.0    | 2.8                   | 1.0          | 4.0        | 81.1                   | 2.4                |
| Pioneer-----   | 511A                    | 95                        | 8.3    | 2.1                   | 1.1          | 3.9        | 80.8                   | 1.8                |
| Funk's-----    | G-795W-1                | 92                        | 7.6    | 2.0                   | 1.1          | 4.1        | 81.2                   | 1.6                |
| Funk's-----    | G-4761                  | 90                        | 1.8    | 2.3                   | 1.1          | 3.4        | 84.1                   | 2.1                |
| Funk's-----    | G-5945                  | 88                        | 5.0    | 2.1                   | 1.1          | 4.6        | 82.5                   | 1.8                |
| Pioneer-----   | 3369A                   | 88                        | 4.1    | 2.7                   | 1.0          | 3.4        | 81.6                   | 2.6                |
| McCurdy-----   | 67-14                   | 87                        | 2.9    | 1.8                   | 1.0          | 3.6        | 80.5                   | 2.3                |
| Pioneer-----   | 3009                    | 86                        | 9.0    | 2.0                   | 1.0          | 4.1        | 78.3                   | 1.6                |
| Funk's-----    | G-4864                  | 86                        | 2.7    | 2.3                   | 1.0          | 4.1        | 82.5                   | 1.7                |
| P.A.G.-----    | 751                     | 84                        | 9.0    | 1.9                   | 1.2          | 4.6        | 81.3                   | 1.6                |
| McNair-----    | X210                    | 83                        | 3.8    | 2.5                   | 1.0          | 3.4        | 77.9                   | 2.3                |
| Coker-----     | 56                      | 83                        | 5.1    | 2.2                   | 1.1          | 4.0        | 80.8                   | 2.6                |
| McNair-----    | 508                     | 82                        | 4.5    | 1.8                   | 1.2          | 4.4        | 81.9                   | 1.9                |
| Greenwood----- | 45                      | 82                        | 8.2    | 1.8                   | 1.0          | 3.9        | 80.5                   | 1.9                |
| Pioneer-----   | 3030                    | 82                        | 4.6    | 1.8                   | 1.1          | 4.2        | 78.0                   | 1.3                |
| Coker-----     | 54                      | 81                        | 4.9    | 1.8                   | 1.1          | 4.0        | 79.7                   | 1.5                |
| Funk's-----    | 4808                    | 80                        | 3.7    | 2.3                   | 1.0          | 3.5        | 80.2                   | 2.1                |
| Greenwood----- | 471                     | 80                        | 9.8    | 1.6                   | 1.0          | 4.5        | 81.0                   | 1.4                |
| Funk's-----    | G-4949                  | 79                        | 4.1    | 2.1                   | 1.0          | 4.6        | 82.8                   | 2.3                |
| McNair-----    | 338                     | 79                        | 6.6    | 2.6                   | 1.0          | 3.4        | 80.9                   | 2.1                |
| DeKalb-----    | 1214                    | 78                        | 7.8    | 2.1                   | 1.2          | 4.6        | 80.2                   | 2.0                |
| P.A.G.-----    | 644W                    | 78                        | 4.9    | 2.3                   | 0.9          | 4.1        | 80.2                   | 2.1                |
| Taylor-----    | 304                     | 78                        | 10.4   | 2.6                   | 1.1          | 4.0        | 80.3                   | 2.4                |
| Greenwood----- | 228                     | 77                        | 6.5    | 1.8                   | 1.1          | 4.0        | 77.6                   | 1.8                |
| Coker-----     | 814                     | 76                        | 4.8    | 2.1                   | 1.1          | 4.5        | 80.2                   | 1.9                |
| DeKalb-----    | XL99                    | 76                        | 12.8   | 1.9                   | 1.1          | 4.7        | 79.9                   | 1.9                |
| -----          | Fla. 200A               | 72                        | 7.2    | 1.8                   | 1.0          | 5.0        | 81.1                   | 1.3                |
| -----          | Mosby                   | 63                        | 18.3   | 2.8                   | 1.0          | 4.0        | 79.6                   | 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. 1973 Yield of Corn Varieties by Location and Regional Averages for 1-5 Years in Central Alabama<sup>1/</sup>

| Brand name    | Hybrid<br>or<br>variety | Prattville | Tallassee | Auburn | Camden | Camp Hill | Regional average yield per acre  |                   |                   |                                 |                                 |
|---------------|-------------------------|------------|-----------|--------|--------|-----------|--|-------------------|-------------------|---------------------------------|---------------------------------|
|               |                         |            |           |        |        |           | 1-year<br>1973   | 2-year<br>1972-73 | 3-year<br>1971-73 | 4-year<br>1969-73 <sup>2/</sup> | 5-year<br>1968-73 <sup>2/</sup> |
|               |                         | Bu.        | Bu.       | Bu.    | Bu.    | Bu.       | Bu.  | Bu.               | Bu.               | Bu.                             |                                 |
| Funk's-----   | G-5945                  | 91         | 101       | 96     | 68     | 90        | 88   | 94                | 97                | 86                              | 83                              |
| Funk's-----   | G-795W-1                | 99         | 108       | 97     | 75     | 82        | 92   | 96                | 97                | 85                              | 82                              |
| Pioneer----   | 511A                    | 93         | 109       | 101    | 79     | 91        | 95   | 101               | 97                | 84                              | 80                              |
| P.A.G.-----   | 751                     | 91         | 106       | 93     | 66     | 65        | 84   | 94                | 92                | 80                              | 77                              |
| Funk's-----   | G-4949                  | 88         | 99        | 82     | 59     | 68        | 79   | 89                | 92                | 80                              | 77                              |
| -----         | Mosby                   | 71         | 76        | 70     | 55     | 46        | 63   | 66                | 66                | 54                              | 51                              |
| Funk's-----   | G-4761                  | 97         | 98        | 106    | 68     | 81        | 90   | 95                | 94                | 81                              |                                 |
| Pioneer----   | 3147                    | 97         | 106       | 105    | 67     | 102       | 95   | 107               | 108               |                                 |                                 |
| McNair-----   | 508                     | 80         | 107       | 92     | 64     | 68        | 82   | 98                | 97                |                                 |                                 |
| McCurdy----   | 67-14                   | 91         | 98        | 98     | 73     | 77        | 87   | 93                | 95                |                                 |                                 |
| Pioneer----   | 3369A                   | 104        | 95        | 98     | 68     | 76        | 88   | 95                | 93                |                                 |                                 |
| Pioneer----   | 3009                    | 93         | 90        | 103    | 71     | 78        | 86   | 93                |                   |                                 |                                 |
| Greenwood--   | 471                     | 81         | 93        | 87     | 65     | 74        | 80   | 91                |                   |                                 |                                 |
| McNair-----   | 338                     | 82         | 84        | 101    | 66     | 61        | 79   | 90                |                   |                                 |                                 |
| Pioneer----   | 3030                    | 88         | 94        | 98     | 63     | 66        | 82   | 90                |                   |                                 |                                 |
| Funk's-----   | G-4808                  | 82         | 92        | 95     | 60     | 73        | 80   | 90                |                   |                                 |                                 |
| Greenwood--   | 45                      | 89         | 97        | 98     | 68     | 57        | 82   | 89                |                   |                                 |                                 |
| P.A.G.-----   | 644-W                   | 79         | 91        | 83     | 66     | 72        | 78   | 89                |                   |                                 |                                 |
| -----         | Fla. 200A               | 79         | 98        | 72     | 59     | 54        | 72   | 85                |                   |                                 |                                 |
| Funk's-----   | G-4864                  | 92         | 90        | 102    | 64     | 82        | 86   |                   |                   |                                 |                                 |
| McNair-----   | X210                    | 94         | 91        | 89     | 69     | 73        | 83   |                   |                   |                                 |                                 |
| Coker-----    | 56                      | 86         | 107       | 94     | 59     | 69        | 83   |                   |                   |                                 |                                 |
| Coker-----    | 54                      | 87         | 87        | 87     | 74     | 70        | 81   |                   |                   |                                 |                                 |
| DeKalb-----   | 1214                    | 76         | 92        | 93     | 65     | 69        | 78   |                   |                   |                                 |                                 |
| Taylor-----   | 304                     | 82         | 105       | 83     | 55     | 63        | 78   |                   |                   |                                 |                                 |
| Greenwood--   | 228                     | 82         | 86        | 95     | 71     | 53        | 77   |                   |                   |                                 |                                 |
| Coker-----    | 814                     | 75         | 104       | 91     | 60     | 49        | 76   |                   |                   |                                 |                                 |
| DeKalb-----   | XL99                    | 77         | 107       | 81     | 61     | 53        | 76   |                   |                   |                                 |                                 |
| Test average: |                         | 87         | 97        | 92     | 66     | 70        | <sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel. |                   |                   |                                 |                                 |
| L.S.D. (.05)  |                         | 10         | 14        | 14     | 8      | 15        | <sup>2/</sup> Does not include 1970 data.                              |                   |                   |                                 |                                 |
| C.V. (%)      |                         | 7.9        | 10.2      | 11.1   | 8.8    | 15.6      |  |                   |                   |                                 |                                 |

Table 10. Some Characteristics of Corn Varieties Tested Three Years in Southern Alabama, 1971-1973.

| Brand name      | Hybrid<br>or<br>variety | Yield<br>per<br>acre <sup>1/</sup><br>Bu. | Lodged<br>stalks<br>Pct. | Quality <sup>2/</sup><br>Rating | Ears<br>per<br>stalk<br>No. | Height<br>of<br>ears<br>Ft. | Shelling<br>Pct. | Husk <sup>2/</sup><br>Rating |
|-----------------|-------------------------|---|--------------------------|---------------------------------|-----------------------------|-----------------------------|------------------|------------------------------|
| Funk's-----     | G-795W-1                | 101                                       | 20.0                     | 2.3                             | 1.1                         | 3.1                         | 82.2             | 2.2                          |
| Pennington----- | CHR-W                   | 100                                       | 16.4                     | 2.2                             | 1.1                         | 3.2                         | 80.7             | 2.2                          |
| Pennington----- | 7-C-11A                 | 98  | 7.6                      | 2.9                             | 1.0                         | 3.2                         | 82.2             | 2.5                          |
| Funk's-----     | G-4949                  | 96  | 2.4                      | 2.5                             | 1.0                         | 3.6                         | 83.0             | 2.3                          |
| McCurdy-----    | 67-14                   | 96  | 9.1                      | 2.1                             | 1.0                         | 2.8                         | 79.6             | 2.5                          |
| P.A.G.-----     | 751                     | 95  | 11.0                     | 2.1                             | 1.2                         | 3.7                         | 81.0             | 1.8                          |
| Funk's-----     | G-5945                  | 93  | 5.3                      | 2.3                             | 1.0                         | 3.5                         | 83.7             | 2.3                          |
| Funk's-----     | G-4761                  | 92  | 5.2                      | 2.4                             | 1.0                         | 2.7                         | 85.5             | 2.2                          |
| McNair-----     | 508                     | 91  | 5.3                      | 2.1                             | 1.1                         | 3.5                         | 82.0             | 2.2                          |
| Coker-----      | 71                      | 83  | 7.3                      | 1.8                             | 1.1                         | 3.6                         | 79.2             | 1.9                          |
| -----           | Mosby                   | 71  | 22.5                     | 3.1                             | 1.0                         | 3.2                         | 80.3             | 2.7                          |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

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



Table 11. Some Characteristics of Corn Varieties Tested Two Years in Southern Alabama, 1972-1973

| Brand name      | Hybrid<br>or<br>variety | Yield                            | Lodged         | Quality <sup>2/</sup> | Ears                | Height            | Shelling | Husk <sup>2/</sup> |
|-----------------|-------------------------|----------------------------------|----------------|-----------------------|---------------------|-------------------|----------|--------------------|
|                 |                         | per<br>acre <sup>1/</sup><br>Bu. | stalks<br>Pct. | Rating                | per<br>stalk<br>No. | of<br>ears<br>Ft. |          | Pct.               |
| Pioneer-----    | 511A                    | 100                              | 13.6           | 2.1                   | 1.1                 | 3.1               | 80.7     | 1.9                |
| Funk's-----     | G-795W-1                | 95                               | 16.7           | 2.4                   | 1.1                 | 3.1               | 80.9     | 2.1                |
| Pennington----- | CHR-W                   | 93                               | 15.5           | 2.4                   | 1.1                 | 3.1               | 80.9     | 2.1                |
| Pennington----- | 7-C-11A                 | 91                               | 5.2            | 2.5                   | 1.0                 | 3.1               | 80.5     | 2.1                |
| Funk's-----     | G-4949                  | 89                               | 1.9            | 2.5                   | 1.0                 | 3.5               | 82.5     | 2.3                |
| P.A.G.-----     | 751                     | 89                               | 10.2           | 2.3                   | 1.1                 | 3.6               | 80.6     | 1.9                |
| Funk's-----     | G-5945                  | 89                               | 5.6            | 2.4                   | 1.0                 | 3.5               | 82.7     | 2.3                |
| McCurdy-----    | 67-14                   | 89                               | 10.9           | 2.3                   | 0.9                 | 2.8               | 79.0     | 2.5                |
| Pioneer-----    | 3369A                   | 89                               | 6.6            | 2.6                   | 1.0                 | 2.6               | 80.7     | 2.6                |
| Pioneer-----    | 3030                    | 88                               | 5.9            | 1.9                   | 1.0                 | 3.3               | 78.4     | 1.5                |
| Funk's-----     | G-4808                  | 88                               | 6.7            | 2.7                   | 1.0                 | 2.7               | 80.7     | 2.2                |
| Pioneer-----    | 3009                    | 88                               | 9.9            | 1.9                   | 0.9                 | 3.2               | 77.7     | 1.7                |
| McNair-----     | 338                     | 87                               | 9.2            | 2.7                   | 0.9                 | 2.7               | 80.5     | 2.4                |
| DeKalb-----     | 1214                    | 86                               | 3.8            | 1.9                   | 1.1                 | 3.4               | 79.7     | 2.2                |
| Greenwood-----  | 45                      | 85                               | 6.8            | 1.8                   | 1.0                 | 3.0               | 80.4     | 2.2                |
| Funk's-----     | G-4761                  | 85                               | 5.7            | 2.6                   | 1.0                 | 2.6               | 84.3     | 2.2                |
| McNair-----     | 508                     | 83                               | 3.3            | 2.1                   | 1.1                 | 3.4               | 81.8     | 2.0                |
| Greenwood-----  | 471                     | 83                               | 7.6            | 1.9                   | 1.0                 | 3.6               | 80.4     | 1.7                |
| Coker-----      | 71                      | 77                               | 7.2            | 1.9                   | 1.0                 | 3.5               | 79.1     | 2.0                |
| Fla.-----       | 200A                    | 77                               | 5.2            | 1.8                   | 1.0                 | 3.9               | 80.3     | 1.5                |
| -----           | Mosby                   | 66                               | 22.2           | 3.2                   | 1.0                 | 3.1               | 79.7     | 2.9                |

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 12. Some Characteristics of Corn Varieties Tested in Southern Alabama, 1973

| Brand name         | Hybrid<br>or<br>variety | Yield                            | Lodged         | Quality <sup>2/</sup> | Ears                | Height            | Shelling | Husk <sup>2/</sup> |
|--------------------|-------------------------|----------------------------------|----------------|-----------------------|---------------------|-------------------|----------|--------------------|
|                    |                         | per<br>acre <sup>1/</sup><br>Bu. | stalks<br>Pct. | Rating                | per<br>stalk<br>No. | of<br>ears<br>Ft. |          | Pct.               |
| Pioneer-----       | 511A                    | 103                              | 12.8           | 2.1                   | 1.1                 | 3.5               | 81.4     | 1.9                |
| Pennington-----    | 7-C-11A                 | 100                              | 5.9            | 3.2                   | 1.0                 | 3.5               | 82.6     | 2.6                |
| Funk's-----        | G-795W-1                | 99                               | 18.6           | 2.3                   | 1.1                 | 3.5               | 81.6     | 2.0                |
| Funk's-----        | G-4864                  | 99                               | 5.3            | 2.1                   | 1.0                 | 3.3               | 82.1     | 1.8                |
| Pennington-----    | CHR-W                   | 96                               | 16.3           | 2.3                   | 1.1                 | 3.5               | 81.0     | 2.3                |
| Funk's-----        | G-4761                  | 96                               | 4.4            | 2.5                   | 1.0                 | 2.9               | 85.1     | 2.2                |
| Funk's-----        | G-4949                  | 95                               | 2.5            | 2.6                   | 0.9                 | 3.9               | 82.7     | 2.4                |
| Funk's-----        | G-4808                  | 95                               | 6.2            | 2.8                   | 1.0                 | 3.0               | 81.0     | 2.1                |
| McCurdy-----       | 67-14                   | 95                               | 10.7           | 2.4                   | 0.9                 | 3.1               | 79.9     | 2.4                |
| Pioneer-----       | 3369A                   | 94                               | 12.3           | 2.6                   | 1.0                 | 2.8               | 80.3     | 2.6                |
| Funk's-----        | G-5945                  | 93                               | 8.0            | 2.4                   | 0.9                 | 3.9               | 83.0     | 2.1                |
| Pioneer-----       | 3009                    | 93                               | 11.4           | 1.9                   | 0.9                 | 3.6               | 78.2     | 1.8                |
| Coker-----         | 54                      | 92                               | 3.9            | 1.6                   | 1.0                 | 3.6               | 81.6     | 1.7                |
| P.A.G.-----        | 751                     | 90                               | 9.1            | 2.4                   | 1.0                 | 4.1               | 80.8     | 2.1                |
| Pioneer-----       | 3030                    | 89                               | 5.6            | 2.1                   | 1.0                 | 3.7               | 79.2     | 1.4                |
| DeKalb-----        | 1214                    | 88                               | 2.3            | 2.0                   | 1.1                 | 3.8               | 81.0     | 2.3                |
| DeKalb-----        | XL99                    | 87                               | 10.4           | 2.4                   | 0.9                 | 4.2               | 81.0     | 2.4                |
| Greenwood-----     | 45                      | 86                               | 9.5            | 1.8                   | 1.0                 | 3.3               | 81.5     | 2.4                |
| Greenwood-----     | 471                     | 86                               | 6.8            | 2.1                   | 1.0                 | 3.9               | 80.7     | 1.9                |
| McNair-----        | 338                     | 86                               | 12.5           | 2.8                   | 0.9                 | 3.0               | 79.3     | 2.6                |
| DeKalb-----        | 1002                    | 85                               | 8.9            | 3.4                   | 0.9                 | 3.7               | 84.3     | 3.6                |
| Northrup-King----- | PX77                    | 84                               | 4.8            | 3.0                   | 1.0                 | 2.8               | 82.0     | 2.5                |
| Coker-----         | 56                      | 84                               | 5.8            | 1.9                   | 1.0                 | 3.5               | 81.8     | 2.2                |
| Coker-----         | 814                     | 82                               | 4.3            | 2.9                   | 1.0                 | 4.0               | 79.5     | 2.1                |
| McNair-----        | 508                     | 81                               | 2.6            | 2.4                   | 1.0                 | 3.7               | 81.4     | 2.1                |
| Coker-----         | 71                      | 78                               | 6.3            | 1.9                   | 1.0                 | 4.0               | 79.3     | 2.1                |
| Fla.-----          | 200A                    | 77                               | 3.5            | 2.1                   | 0.9                 | 4.4               | 79.2     | 1.6                |
| -----              | Mosby                   | 69                               | 18.2           | 2.9                   | 0.9                 | 3.5               | 80.0     | 3.0                |

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. 1973 Yield of Corn Varieties by Locations and Regional Averages for 1-5 Years in Southern Alabama<sup>1/</sup>

| Brand name    | Hybrid<br>or<br>variety | Fairhope<br>Bu. | Brewton<br>Bu. | Monroe-<br>ville<br>Bu. | Headland<br>Bu. | Regional average yield per acre |                          |                          |  |  |
|---------------|-------------------------|-----------------|----------------|-------------------------|-----------------|---------------------------------|--------------------------|--------------------------|--|--|
|               |                         |                 |                |                         |                 | 1-year<br>1973<br>Bu.           | 2-year<br>1972-73<br>Bu. | 3-year<br>1971-73<br>Bu. | 4-year<br>1969-73 <sup>2/</sup><br>Bu. | 5-year<br>1968-73 <sup>2/</sup><br>Bu. |
| Funk's        | G-4949                  | 130             | 126            | 78                      | 46              | 95                              | 89                       | 96                       | 86                                     | 79                                     |
| Funk's        | G-5945                  | 130             | 121            | 82                      | 38              | 93                              | 89                       | 93                       | 84                                     | 79                                     |
| Pennington    | 7-C-11A                 | 120             | 131            | 89                      | 60              | 100                             | 96                       | 98                       | 87                                     | 78                                     |
| P.A.G.        | 751                     | 117             | 132            | 71                      | 41              | 90                              | 89                       | 95                       | 85                                     | 77                                     |
| Coker         | 71                      | 93              | 111            | 69                      | 41              | 78                              | 77                       | 83                       | 74                                     | 66                                     |
|               | Mosby                   | 88              | 98             | 55                      | 34              | 69                              | 66                       | 71                       | 64                                     | 57                                     |
| Funk's        | G-795W-1                | 123             | 133            | 87                      | 53              | 99                              | 95                       | 101                      | 91                                     |  |
| Pennington    | CHR-W                   | 117             | 127            | 79                      | 60              | 96                              | 93                       | 100                      | 89                                     |  |
| McCurdy       | 67-14                   | 130             | 120            | 87                      | 41              | 95                              | 89                       | 96                       |  |  |
| Funk's        | G-4761                  | 124             | 109            | 87                      | 64              | 96                              | 85                       | 92                       |  |  |
| McNair        | 508                     | 114             | 104            | 65                      | 40              | 81                              | 83                       | 91                       |  |  |
| Pioneer       | 511A                    | 134             | 135            | 88                      | 55              | 103                             | 100                      |                          |  |  |
| Pioneer       | 3369A                   | 134             | 111            | 68                      | 66              | 94                              | 89                       |                          |  |  |
| Pioneer       | 3030                    | 116             | 111            | 83                      | 47              | 89                              | 88                       |                          |  |  |
| Funk's        | G-4808                  | 127             | 120            | 80                      | 53              | 95                              | 88                       |                          |  |  |
| Pioneer       | 3009                    | 122             | 119            | 84                      | 46              | 93                              | 88                       |                          |  |  |
| McNair        | 338                     | 123             | 102            | 70                      | 48              | 86                              | 87                       |                          |  |  |
| DeKalb        | 1214                    | 116             | 114            | 70                      | 51              | 87                              | 86                       |                          |  |  |
| Greenwood     | 45                      | 113             | 105            | 75                      | 52              | 86                              | 85                       |                          |  |  |
| Greenwood     | 471                     | 121             | 114            | 67                      | 43              | 86                              | 83                       |                          |  |  |
| Fla.          | 200A                    | 117             | 113            | 49                      | 32              | 77                              | 77                       |                          |  |  |
| Funk's        | G-4864                  | 127             | 117            | 90                      | 61              | 99                              |                          |                          |  |  |
| Coker         | 54                      | 127             | 115            | 74                      | 51              | 92                              |                          |                          |  |  |
| DeKalb        | XL99                    | 119             | 125            | 68                      | 37              | 87                              |                          |                          |  |  |
| DeKalb        | 1002                    | 117             | 113            | 64                      | 45              | 85                              |                          |                          |  |  |
| Northrup-King | PX77                    | 109             | 104            | 67                      | 58              | 84                              |                          |                          |  |  |
| Coker         | 56                      | 109             | 107            | 78                      | 43              | 84                              |                          |                          |  |  |
| Coker         | 814                     | 112             | 106            | 66                      | 43              | 82                              |                          |                          |  |  |
| Test average: |                         | 119             | 116            | 74                      | 48              |                                 |                          |                          |  |  |
| L.S.D. (.05)  |                         | 18              | 14             | 11                      | 15              |                                 |                          |                          |  |  |
| C.V. (%)      |                         | 10.7            | 8.7            | 10.2                    | 22              |                                 |                          |                          |  |  |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

<sup>2/</sup> Does not include 1970 data.

Table 14. Yield of Irrigated and Unirrigated Corn Varieties  
at Camden, 1973

| Brand name     | Hybrid<br>or<br>variety | Yield per acre <sup>1/</sup> |                    |
|----------------|-------------------------|------------------------------|--------------------|
|                |                         | Irrigated<br>Bu.             | Unirrigated<br>Bu. |
| Funk's-----    | G-795W-1                | 126                          | 75                 |
| P.A.G.-----    | 751                     | 120                          | 66                 |
| Pioneer-----   | 511A                    | 120                          | 79                 |
| Funk's-----    | G-5945                  | 114                          | 68                 |
| Pioneer-----   | 3030                    | 113                          | 63                 |
| Funk's-----    | G-4864                  | 112                          | 64                 |
| Funk's-----    | G-4949                  | 107                          | 59                 |
| Greenwood----- | 228                     | 106                          | 71                 |
| DeKalb-----    | XL 99                   | 106                          | 61                 |
| Coker-----     | 54                      | 102                          | 74                 |
| Greenwood----- | 471                     | 102                          | 65                 |
| Pioneer-----   | 3369A                   | 100                          | 68                 |
| Funk's-----    | G-4808                  | 100                          | 60                 |
| P.A.G.-----    | 644W                    | 99                           | 66                 |
| McNair-----    | 508                     | 99                           | 64                 |
| McNair-----    | X210                    | 99                           | 69                 |
| -----          | Fla. 200A               | 98                           | 59                 |
| Coker-----     | 56                      | 97                           | 59                 |
| Funk's-----    | G-4761                  | 96                           | 68                 |
| DeKalb-----    | 1214                    | 96                           | 65                 |
| Pioneer-----   | 3009                    | 96                           | 71                 |
| Taylor-----    | 304                     | 95                           | 55                 |
| Greenwood----- | 45                      | 95                           | 68                 |
| Pioneer-----   | 3147                    | 92                           | 67                 |
| McCurdy-----   | 67-14                   | 92                           | 73                 |
| Coker-----     | 814                     | 87                           | 60                 |
| McNair-----    | 338                     | 86                           | 66                 |
| -----          | Mosby                   | 75                           | 55                 |
| Test average   |                         | 101                          | 66                 |
| L.S.D. (.05)   |                         | 12                           | 8                  |
| C.V. (%)       |                         | 8.8                          | 8.8                |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.



Table 15. Some Characteristics of Corn Hybrids Tested One Year at Three Locations in Northern Alabama, 1973

| Brand name      | Hybrid                 | Yield per acre <sup>1/</sup> |          |            |                  | Lodged stalks | Quality <sup>2/</sup> | Ears per stalk | Ear height | Shelling | Husk <sup>2/</sup> |
|-----------------|------------------------|------------------------------|----------|------------|------------------|---------------|-----------------------|----------------|------------|----------|--------------------|
|                 |                        | Belle Mina                   | Winfield | Crossville | Regional average |               |                       |                |            |          |                    |
| Number of tests |                        | Bu. (1)                      | Bu. (1)  | Bu. (1)    | Bu. (3)          | Pct. (3)      | Rating (3)            | No. (3)        | Ft. (3)    | Pct. (3) | Rating (3)         |
| DeKalb-----     | XL 85                  | 113                          | 85       | 135        | 111              | 3.6           | 1.5                   | 1.0            | 3.5        | 84.1     | 2.4                |
| McCurdy-----    | 72-73                  | 114                          | 85       | 125        | 108              | 2.9           | 1.5                   | 1.0            | 4.0        | 83.3     | 2.1                |
| Pioneer-----    | 3369A <sup>3/</sup>    | 107                          | 91       | 114        | 104              | 5.6           | 1.7                   | 1.0            | 3.4        | 83.3     | 2.1                |
| McCurdy-----    | 72-44                  | 107                          | 92       | 113        | 104              | 2.2           | 1.9                   | 1.0            | 3.6        | 82.8     | 1.8                |
| McNair-----     | 73002                  | 98                           | 76       | 129        | 101              | 13.3          | 1.8                   | 1.0            | 3.4        | 83.3     | 3.0                |
| McNair-----     | X214                   | 103                          | 73       | 118        | 98               | 4.9           | 1.8                   | 1.0            | 3.6        | 86.2     | 1.7                |
| Funk's-----     | G-795W-1 <sup>3/</sup> | 87                           | 84       | 120        | 97               | 6.9           | 2.5                   | 1.1            | 4.0        | 81.2     | 1.7                |
| Pioneer-----    | 3161                   | 88                           | 78       | 122        | 96               | 1.5           | 1.9                   | 1.0            | 3.8        | 83.4     | 1.7                |
| DeKalb-----     | XL 380                 | 98                           | 84       | 106        | 96               | 4.3           | 1.8                   | 0.9            | 3.5        | 79.2     | 1.9                |
| McNair-----     | X190                   | 98                           | 82       | 108        | 96               | 4.1           | 2.1                   | 1.0            | 3.4        | 83.3     | 3.0                |
| McNair-----     | 73011                  | 89                           | 89       | 107        | 95               | 4.8           | 2.1                   | 1.1            | 4.7        | 82.7     | 2.0                |
| DeKalb-----     | XL 80                  | 101                          | 80       | 104        | 95               | 3.5           | 1.8                   | 0.9            | 3.5        | 79.2     | 1.9                |
| DeKalb-----     | XL 74                  | 93                           | 78       | 111        | 94               | 4.5           | 1.7                   | 1.0            | 3.5        | 81.5     | 2.6                |
| McCurdy-----    | 72-14                  | 88                           | 76       | 110        | 91               | 5.3           | 2.2                   | 1.1            | 4.5        | 81.4     | 1.8                |
| Funk's-----     | G-5945                 | 84                           | 71       | 115        | 90               | 6.7           | 2.1                   | 1.0            | 4.5        | 82.1     | 1.9                |
| McCurdy-----    | 72-22                  | 86                           | 70       | 114        | 90               | 5.3           | 2.6                   | 1.1            | 4.8        | 82.2     | 1.1                |
| Coker-----      | 56                     | 85                           | 82       | 100        | 89               | 2.2           | 1.9                   | 1.2            | 3.9        | 81.2     | 2.6                |
| Funk's-----     | G-4949                 | 78                           | 72       | 105        | 85               | 4.7           | 2.3                   | 1.0            | 4.5        | 81.7     | 2.1                |
| McNair-----     | 508                    | 61                           | 63       | 95         | 73               | 5.2           | 3.3                   | 1.2            | 4.4        | 80.4     | 1.8                |
| Acco-----       | AR 19627               | 72                           | 53       | 85         | 70               | 5.3           | 2.1                   | 0.9            | 3.7        | 79.4     | 1.8                |
| Test average:   |                        | 93                           | 78       | 112        |                  |               |                       |                |            |          |                    |
| L.S.D. (.05)    |                        | 11                           | 16       | 16         |                  |               |                       |                |            |          |                    |
| C.V. (%)        |                        | 8.4                          | 14.0     | 10.0       |                  |               |                       |                |            |          |                    |

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.

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

<sup>3/</sup> Check hybrids.

Table 16. Some Characteristics of Corn Hybrids Tested One Year at Two Locations in Central Alabama, 1973

| Brand name      | Hybrid              | Yield per acre <sup>1/</sup> |         |                  | Lodged stalks | Quality <sup>2/</sup> | Ears      |            |          |                    |
|-----------------|---------------------|------------------------------|---------|------------------|---------------|-----------------------|-----------|------------|----------|--------------------|
|                 |                     | Tallassee                    | Auburn  | Regional average |               |                       | per stalk | Ear height | Shelling | Husk <sup>2/</sup> |
| Number of tests |                     | Bu. (1)                      | Bu. (1) | Bu. (2)          | Pct. (2)      | Rating (2)            | No. (2)   | Ft. (2)    | Pct. (2) | Rating (2)         |
| McCurdy-----    | 72-24               | 114                          | 123     | 119              | 6.7           | 2.8                   | 1.2       | 4.9        | 84.9     | 1.6                |
| McNair-----     | 73011               | 103                          | 118     | 111              | 1.2           | 2.0                   | 1.2       | 4.6        | 84.5     | 2.3                |
| Pennington----  | CHR-W               | 99                           | 122     | 110              | 4.0           | 2.3                   | 1.2       | 3.9        | 82.6     | 2.4                |
| McNair-----     | X 214               | 95                           | 125     | 110              | 1.5           | 3.5                   | 1.0       | 3.4        | 84.6     | 2.4                |
| Pioneer-----    | 3147 <sup>3/</sup>  | 95                           | 124     | 109              | 2.4           | 3.6                   | 1.1       | 3.8        | 81.8     | 3.0                |
| McCurdy-----    | 72-22               | 92                           | 123     | 108              | 4.6           | 2.5                   | 1.2       | 4.9        | 84.0     | 1.6                |
| McNair-----     | X300                | 96                           | 117     | 107              | 5.3           | 3.3                   | 1.0       | 3.3        | 82.0     | 2.4                |
| McNair-----     | 73002               | 81                           | 129     | 105              | 5.2           | 3.8                   | 1.0       | 3.5        | 81.8     | 3.0                |
| Acco-----       | AR14289             | 87                           | 116     | 102              | 1.5           | 2.3                   | 1.0       | 3.3        | 80.7     | 2.1                |
| Pioneer-----    | 3161                | 86                           | 116     | 101              | 0.9           | 2.5                   | 1.1       | 3.7        | 83.0     | 2.5                |
| Greenwood-----  | 801                 | 87                           | 112     | 100              | 6.1           | 2.5                   | 1.1       | 3.8        | 79.6     | 2.6                |
| Taylor-----     | T-15                | 89                           | 109     | 99               | 8.2           | 2.3                   | 1.1       | 4.3        | 81.3     | 2.6                |
| Greenwood-----  | 95                  | 79                           | 111     | 95               | 3.2           | 2.4                   | 1.1       | 3.7        | 79.6     | 2.3                |
| Pioneer-----    | 3369A <sup>3/</sup> | 81                           | 107     | 94               | 3.6           | 3.4                   | 1.0       | 3.2        | 80.0     | 3.4                |
| DeKalb-----     | 1002                | 72                           | 103     | 87               | 1.8           | 3.9                   | 1.0       | 3.7        | 78.8     | 3.9                |
| Northrup-King - | PX77                | 67                           | 104     | 85               | 5.0           | 3.0                   | 1.0       | 3.1        | 79.1     | 2.5                |
| Northrup-King - | PX670               | 58                           | 100     | 79               | 2.1           | 3.0                   | 1.0       | 3.3        | 83.7     | 2.9                |
| Funk's-----     | G-4646              | 49                           | 103     | 76               | 0.6           | 3.8                   | 1.0       | 3.0        | 78.4     | 3.5                |

Test average:                    85            115  
L.S.D. (.05)                    15            15  
C.V. (%)                        12.4            9.0

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.  
<sup>2/</sup> 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.  
<sup>3/</sup> Check hybrids.

Table 17. Some Characteristics of Corn Hybrids Tested One-Year at Two Locations in Southern Alabama, 1973

| Brand name      | Hybrid               | Yield per acre <sup>1/</sup> |                        |                                | Lodged stalks | Quality <sup>2/</sup><br>Rating | Ears per stalk<br>No. | Ear height<br>Ft. | Shelling<br>Pct. | Husk <sup>2/</sup><br>Rating |
|-----------------|----------------------|------------------------------|------------------------|--------------------------------|---------------|---------------------------------|-----------------------|-------------------|------------------|------------------------------|
|                 |                      | Fairhope<br>Bu.<br>(1)       | Headland<br>Bu.<br>(1) | Regional average<br>Bu.<br>(2) |               |                                 |                       |                   |                  |                              |
| Number of tests |                      |                              |                        |                                | Pct.<br>(2)   |                                 |                       |                   |                  |                              |
| McNair-----     | 73011                | 156                          | 57                     | 106                            | 2.1           | 1.5                             | 1.1                   | 4.9               | 84.2             | 2.3                          |
| McNair-----     | 73002                | 153                          | 55                     | 104                            | 25.1          | 1.8                             | 0.9                   | 3.5               | 83.2             | 3.3                          |
| Pioneer-----    | 3161                 | 142                          | 60                     | 101                            | 5.4           | 1.8                             | 1.0                   | 3.4               | 83.2             | 2.4                          |
| McCurdy-----    | 67-14 <sup>3/</sup>  | 139                          | 63                     | 101                            | 8.3           | 1.6                             | 0.9                   | 3.5               | 81.3             | 2.9                          |
| McNair-----     | X300                 | 141                          | 60                     | 100                            | 8.5           | 1.8                             | 1.0                   | 3.4               | 81.1             | 2.6                          |
| McNair-----     | X214                 | 143                          | 56                     | 99                             | 15.5          | 1.6                             | 0.9                   | 3.4               | 83.9             | 2.6                          |
| Greenwood-----  | 801                  | 141                          | 54                     | 97                             | 11.4          | 1.6                             | 1.0                   | 3.9               | 81.2             | 3.1                          |
| Pioneer-----    | 3147                 | 142                          | 53                     | 97                             | 7.5           | 2.6                             | 1.0                   | 3.7               | 83.8             | 2.8                          |
| McCurdy-----    | 72-26                | 144                          | 46                     | 95                             | 17.2          | 1.6                             | 1.0                   | 4.9               | 84.7             | 1.9                          |
| McCurdy-----    | 72-22                | 139                          | 51                     | 95                             | 10.1          | 2.3                             | 1.0                   | 4.7               | 83.3             | 1.4                          |
| McNair-----     | X210                 | 131                          | 57                     | 94                             | 5.1           | 2.4                             | 1.0                   | 3.3               | 80.8             | 2.4                          |
| McNair-----     | X190                 | 117                          | 68                     | 92                             | 4.4           | 2.0                             | 1.0                   | 3.0               | 82.9             | 3.6                          |
| Funk's-----     | G-4949 <sup>3/</sup> | 136                          | 45                     | 90                             | 2.5           | 2.3                             | 0.9                   | 4.3               | 81.5             | 3.0                          |
| Greenwood-----  | 95                   | 126                          | 53                     | 89                             | 5.9           | 2.0                             | 1.0                   | 3.9               | 79.8             | 2.6                          |
| Greenwood-----  | 228                  | 124                          | 53                     | 88                             | 4.7           | 1.6                             | 1.0                   | 3.8               | 78.9             | 1.9                          |
| Funk's-----     | G-4646               | 120                          | 50                     | 85                             | 6.0           | 2.3                             | 0.9                   | 2.9               | 84.1             | 3.5                          |
| Northrup-King-  | PX670                | 110                          | 52                     | 81                             | 9.4           | 2.4                             | 1.0                   | 3.3               | 82.7             | 2.6                          |
| Taylor-----     | T-6                  | 126                          | 33                     | 80                             | 10.3          | 2.1                             | 0.8                   | 4.9               | 80.2             | 1.4                          |
| Acco-----       | AR-19088             | 107                          | 51                     | 79                             | 8.9           | 1.9                             | 0.9                   | 3.5               | 84.0             | 1.4                          |

Test average:                   133       53  
L.S.D. (.05)                   12       12  
C.V. (%)                        6.3      16.1

<sup>1/</sup> Yields adjusted to 15.5% moisture and 56 lb. per bushel.  
<sup>2/</sup> 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.  
<sup>3/</sup> Check hybrid.

ACCEPTABLE HYBRIDS FOR 1974

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

CENTRAL ALABAMA

SOUTHERN ALABAMA

Brand name    Hybrid

Brand name    Hybrid

Brand name    Hybrid

Early Season

Early Season

Early Season

Pioneer-----3369A    (Y)  
 DeKalb-----805A    (Y)  
 Funk's-----G-4761    (Y)  
 Funk's-----G-5757    (Y)  
 Stull-----807SX    (Y)  
 McCurdy-----MSX88    (Y)<sup>1/</sup>  
 Funk's-----G-4808    (Y)<sup>1/</sup>

McCurdy-----67-14    (Y)  
 Pioneer-----3369A    (Y)  
 Funk's-----G-4761    (Y)  
 Funk's-----G-4808    (Y)<sup>1/</sup>

McCurdy-----67-14    (Y)  
 Funk's-----G-4761    (Y)  
 Pioneer-----3369A    (Y)<sup>1/</sup>  
 Funk's-----G-4808    (Y)<sup>1/</sup>

Full Season

Full Season

Full Season

McCurdy-----67-14    (Y)  
 Pioneer-----3147    (Y)  
 Pioneer-----3179    (Y)  
 Pioneer-----3191    (Y)  
 Pioneer-----511A    (W)  
 Pennington----CHR-W    (W)  
 Funk's-----G-795W-1    (W)  
 P.A.G.-----644W    (W)  
 McNair-----338    (Y)<sup>1/</sup>

Pioneer-----3147    (Y)  
 Funk's-----G-795W-1    (W)  
 McNair-----508    (Y)  
 Pioneer-----511A    (W)  
 Funk's-----G-5945    (Y)  
 Funk's-----G-4949    (Y)  
 P.A.G.-----751    (Y)  
 Greenwood----471    (Y)  
 Greenwood----45    (Y)<sup>1/</sup>  
 McNair-----338    (Y)<sup>1/</sup>  
 Pioneer-----3009    (Y)<sup>1/</sup>  
 P.A.G.-----644W    (W)<sup>1/</sup>  
 Pioneer-----3030    (Y)<sup>1/</sup>

Pennington----CHR-W    (W)  
 Funk's-----G-795W-1    (W)  
 Funk's-----G-4949    (Y)  
 Pennington----7-C-11A    (Y)  
 P.A.G.-----751    (Y)  
 Funk's-----G-5945    (Y)  
 McNair-----508    (Y)  
 Pioneer-----511A    (W)<sup>1/</sup>  
 Pioneer-----3030    (Y)<sup>1/</sup>  
 Pioneer-----3009    (Y)<sup>1/</sup>  
 DeKalb-----1214    (Y)<sup>1/</sup>  
 Greenwood----45    (Y)<sup>1/</sup>  
 McNair-----338    (Y)<sup>1/</sup>

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