ACCEPTABLE HYBRIDS FOR 1972

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

<table>
<thead>
<tr>
<th>NORTHERN ALABAMA</th>
<th>CENTRAL ALABAMA</th>
<th>SOUTHERN ALABAMA</th>
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<td><strong>Brand name</strong></td>
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<td><strong>Early Season</strong></td>
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<td>DeKalb</td>
<td>-805A&lt;sup&gt;1/&lt;/sup&gt; (Y)</td>
<td>Funk's</td>
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<tr>
<td>Funk's</td>
<td>-G-4761 (Y)</td>
<td>McCurdy</td>
</tr>
<tr>
<td>Funk's</td>
<td>-G-5757 (Y)</td>
<td>Pioneer</td>
</tr>
<tr>
<td>Pioneer</td>
<td>-3369A&lt;sup&gt;2/&lt;/sup&gt; (Y)</td>
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<tr>
<td>Stull</td>
<td>807SX (Y)</td>
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<td><strong>Full Season</strong></td>
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<td>-511A (W)</td>
<td>McCurdy</td>
</tr>
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<td>-67-14&lt;sup&gt;2/&lt;/sup&gt; (Y)</td>
<td>Funk's</td>
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<tr>
<td>Pennington</td>
<td>-CHR-W&lt;sup&gt;2/&lt;/sup&gt; (W)</td>
<td>Funk's</td>
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<td>Pioneer</td>
<td>-3179&lt;sup&gt;2/&lt;/sup&gt; (Y)</td>
<td>McNair</td>
</tr>
<tr>
<td>Pioneer</td>
<td>-3191&lt;sup&gt;2/&lt;/sup&gt; (Y)</td>
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<td>P.A.G.</td>
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</table>

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

<sup>2/</sup> Hybrids tested 2 years in the regular tests.
Performance of Corn Varieties in Alabama, 1972

David H. Teem 1/

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

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

Tests were hand planted and hand harvested. Recommended fertilization, plant population, weed control, and other practices were followed and conditions were the same for all hybrids within a given test. The experimental design was a randomized complete block with four replications. Yields were adjusted to 15.5 per cent moisture and 56 pounds per bushel. Stalks broken below the ear or leaning more than 45 degrees were considered lodged. Ear rot, earworm damage, size of ear and grain, and luster of grain

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1/ Research Associate, Department of Agronomy and Soils.
were considered in rating ear and grain quality. Height of ears was measured from ear base to ground level. Husks were rated by tightness and extension beyond the tip of the ear.

Regional averages for 3, 2, and 1 years in northern Alabama are presented in Tables 1, 2, and 3, respectively. Table 4 shows yields by location and regional average yields for 1-5 years in northern Alabama. Similar data are shown for central Alabama in Tables 5-8 and for southern Alabama in Tables 9-12. Results of irrigated versus non-irrigated tests at Camden are shown in Table 13.

When comparing hybrids, small differences in yield should not be considered as real differences between hybrids but differences resulting from variation in the plots and testing procedures. To aid in determining real differences between hybrids a statistical procedure, analysis of variance, was performed on data from each location. The H.S.D. (honestly significant difference) is given for yield at each location. This means that if the difference between two hybrids being compared is greater than the H.S.D. value, the difference is considered real at the (.05) level of probability.

Long term averages should be considered when choosing a hybrid. Three years testing is considered sufficient to give a good measure of the performance of varieties. To help determine if a variety should be included in the acceptable list, a system was devised to obtain a composite rating for each variety. The regional average yield of a variety was used as its base point. The composite rating was obtained by subtracting values for lodging, quality, and height of ears from the base point. The value subtracted for each characteristic was proportional to the numerical value shown for the characteristic in Tables
1, 5, and 9. Also, those hybrids that have a good record for 2 years in the regular test are included, and noted, on the acceptable list. When available, data from more than 3 years are used in evaluating the varieties.

All of the acceptable varieties are not equal in performance. Some are outstanding in one or more characteristics. Others are not outstanding in any one characteristic, but possess a satisfactory combination of characteristics. For these reasons, it is suggested that this report be carefully studied before choosing a variety of corn.

ACKNOWLEDGMENT

Table 1. Some Characteristics of Corn Varieties Tested Three Years in Northern Alabama, 1969-1972

<table>
<thead>
<tr>
<th>Brand name or variety</th>
<th>Hybrid per acre</th>
<th>Lodged stalks</th>
<th>Quality</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk</th>
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<tbody>
<tr>
<td>Pioneer - 511A</td>
<td>88.7</td>
<td>10.7</td>
<td>2.2</td>
<td>1.0</td>
<td>3.8</td>
<td>81.5</td>
<td>2.0</td>
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<tr>
<td>Funk's - G-795W-1</td>
<td>85.0</td>
<td>12.7</td>
<td>2.4</td>
<td>1.0</td>
<td>3.7</td>
<td>80.7</td>
<td>1.8</td>
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<tr>
<td>Funk's - G-4761</td>
<td>81.7</td>
<td>4.6</td>
<td>2.1</td>
<td>0.9</td>
<td>3.5</td>
<td>83.4</td>
<td>2.1</td>
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<tr>
<td>Funk's - G-5757</td>
<td>81.2</td>
<td>5.8</td>
<td>2.4</td>
<td>0.9</td>
<td>3.6</td>
<td>81.8</td>
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<td>Stull - 8076X</td>
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<td>0.9</td>
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<td>2.2</td>
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</table>

1/ Does not include 1970 data.
2/ Yields adjusted to 15.5% moisture and 56 lb. per bushel.
3/ 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
Table 2. Some Characteristics of Corn Varieties Tested Two Years in Northern Alabama, 1971-72

<table>
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<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre</th>
<th>Lodged stalks</th>
<th>Quality</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk</th>
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<td>Pioneer-</td>
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<td>4.1</td>
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<td>1.0</td>
<td>4.0</td>
<td>83.2</td>
<td>2.8</td>
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<td>McCurdy-</td>
<td>67-14</td>
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<td>6.4</td>
<td>1.4</td>
<td>1.0</td>
<td>3.8</td>
<td>80.3</td>
<td>2.5</td>
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<td>3.9</td>
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<td>10.4</td>
<td>2.1</td>
<td>1.2</td>
<td>3.9</td>
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<td>10.7</td>
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<td>3.9</td>
<td>81.7</td>
<td>1.9</td>
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<td>1.2</td>
<td>3.7</td>
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<td>4.0</td>
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<td>7.6</td>
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<td>4.2</td>
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<td>Stull-</td>
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<td>3.6</td>
<td>81.8</td>
<td>2.9</td>
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<td>Funk's-</td>
<td>G-5757</td>
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<td>5.9</td>
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<td>1.0</td>
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<td>6.6</td>
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<td>3.7</td>
<td>81.4</td>
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</table>

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

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

3/ Second generation variety obtained by saving Funk's G-795W-1(F_1) seed.
<table>
<thead>
<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre/earnstalks Quality²/</th>
<th>Ears Height Shelling Husk²/</th>
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<td>79.7 2.4</td>
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<td>84.2 3.3</td>
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<tr>
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</tr>
<tr>
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<td>CHR-W</td>
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<td>75.9 14.9 3.4 1.2 4.0</td>
<td>82.4 1.7</td>
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</tbody>
</table>

¹Yields adjusted to 15.5% moisture and 56 lb per bushel.
²= excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
³/T = Texas male sterile cytoplasm.
⁴/Second generation variety obtained by saving Funk's G-795W-1(F¹) seed.
Table 4. 1972 Yields of Corn Varieties by Locations and Regional Averages for 1-5 Years in Northern Alabama

<table>
<thead>
<tr>
<th>Hybrid or variety</th>
<th>Belle Mina</th>
<th>Crossville</th>
<th>Winfield</th>
<th>1-year 1972</th>
<th>2-year 1971-72</th>
<th>3-year 1969-72</th>
<th>4-year 1968-72</th>
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<td>100.6</td>
<td>85.9</td>
<td>83.4</td>
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<td>Stull-------------</td>
<td>807SX</td>
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<td>107.6</td>
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<td>88.3</td>
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<td>71.4</td>
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1/ Yields adjusted to 15.5% moisture and 56 lb per bushel.
2/ Does not include 1970 data.
3/ Second generation variety obtained by saving Funk's G-795W-1(F1) seed.
4/ T = Texas male sterile cytoplasm.
Table 5. Some Characteristics of Corn Varieties Tested Three Years in Central Alabama, 1969-72⁽¹⁾

<table>
<thead>
<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre²/</th>
<th>Lodged stalks</th>
<th>Quality³/</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk³/ Rating</th>
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<td>80.7</td>
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<td>G-795 W-1</td>
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<td>16.5</td>
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<td>3.4</td>
<td>79.5</td>
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¹/ Does not include 1970 data.
²/ Yields adjusted to 15.5% moisture and 56 lb per bushel.
³/ 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
Table 6. Some Characteristics of Corn Varieties Tested Two Years in Central Alabama, 1971-1972

<table>
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<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre</th>
<th>Lodged stalks</th>
<th>Quality</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk</th>
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</table>

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

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

3/ Second generation variety obtained by saving Funk's G-795W-1(F₁) seed.
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<th>Quality</th>
<th>Ears per stalk</th>
<th>Height of stalks</th>
<th>Shelling</th>
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</tr>
</tbody>
</table>

1/ Yields adjusted to 15.5% moisture and 56 lb per bushel.
2/ 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
3/ T = Texas male sterile cytoplasm.
4/ Second generation variety obtained by saving Funk's G-795W-1(F1) seed.
Table 8. 1972 Yields of Corn Varieties by Locations and Regional Averages for 1-5 Years in Central Alabama

<table>
<thead>
<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Camden Bu.</th>
<th>Camp Hill Bu.</th>
<th>Prattville Bu.</th>
<th>Tallassee Bu.</th>
<th>Regional average yield per acre</th>
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</thead>
<tbody>
<tr>
<td>Funk's-----</td>
<td>G-5945</td>
<td>108.5</td>
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<td>101.2</td>
<td>101.0</td>
<td>101.0</td>
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<td></td>
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<td>84.7</td>
</tr>
<tr>
<td>Funk's-----</td>
<td>G-795W-1</td>
<td>102.9</td>
<td>101.2</td>
<td>101.0</td>
<td>100.0</td>
<td>100.0</td>
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<tr>
<td>P.A.G.-----</td>
<td>751</td>
<td>88.7</td>
<td>101.2</td>
<td>101.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Pioneer----</td>
<td>511A</td>
<td>111.5</td>
<td>105.7</td>
<td>98.1</td>
<td>80.2</td>
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<td></td>
<td>Mostly</td>
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<tr>
<td>McNair-----</td>
<td>508</td>
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<td>117.0</td>
<td>104.7</td>
<td>104.7</td>
<td>104.7</td>
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<tr>
<td>McCurdy----</td>
<td>67-14</td>
<td>102.7</td>
<td>100.4</td>
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<td>99.3</td>
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<tr>
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<td>96.4</td>
<td>96.4</td>
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<td>G-795W-1(F²)³/</td>
<td>83.3</td>
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<td>81.9</td>
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<tr>
<td></td>
<td>Fla. 200A(F²)⁴/</td>
<td>113.4</td>
<td>113.4</td>
<td>113.4</td>
<td>113.4</td>
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<td>338</td>
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<td>Greenwood--</td>
<td>471</td>
<td>107.2</td>
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</tr>
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<td>3009</td>
<td>110.5</td>
<td>102.5</td>
<td>102.5</td>
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<td>644W</td>
<td>102.5</td>
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<td>102.1</td>
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<td>G-4808</td>
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<td>101.2</td>
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<tr>
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<td>45</td>
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<tr>
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<td>S.C. 236</td>
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<td>122.4</td>
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<td>553W</td>
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<td>97.2</td>
<td>97.2</td>
<td>97.2</td>
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<tr>
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<td>210</td>
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<td>114.9</td>
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<td>95.6</td>
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<td>492</td>
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<td>94.0</td>
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<tr>
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<td>75</td>
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<td>118.6</td>
<td>92.7</td>
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<td>36</td>
<td>96.2</td>
<td>115.2</td>
<td>92.4</td>
<td>92.4</td>
<td>92.4</td>
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<tr>
<td>DeKalb-----</td>
<td>XL389</td>
<td>100.9</td>
<td>109.7</td>
<td>90.2</td>
<td>90.2</td>
<td>90.2</td>
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<tr>
<td>McCurdy----</td>
<td>951W-1</td>
<td>96.4</td>
<td>117.6</td>
<td>89.0</td>
<td>89.0</td>
<td>89.0</td>
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<td>P.A.G.-----</td>
<td>748</td>
<td>82.9</td>
<td>111.2</td>
<td>84.2</td>
<td>84.2</td>
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Test average: 101.7 97.2 87.8 128.2 99.2
H.S.D. (.05): 22.0 31.0 18.0 25.0 24.0
C.V. % : 8.4 15.3 8.2 7.6 9.7

¹/Yields adjusted to 15.5% moisture and 56 lb per bushel.
²/Does not include 1970 data.
³/Second generation variety obtained by saving Funk's G-795W-1(F²) seed.
⁴/T = Texas male sterile cytoplasm.
Table 9. Some Characteristics of Corn Varieties Tested Three Years in Southern Alabama, 1969-1972

<table>
<thead>
<tr>
<th>Hybrid or variety</th>
<th>Yield per acre</th>
<th>Lodged stalks</th>
<th>Quality</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funk's-----------G-795W-1</td>
<td>93.6</td>
<td>21.7</td>
<td>2.5</td>
<td>1.1</td>
<td>3.0</td>
<td>82.1</td>
<td>2.4</td>
</tr>
<tr>
<td>Pennington--------CHR-W</td>
<td>90.9</td>
<td>17.2</td>
<td>2.4</td>
<td>1.1</td>
<td>3.0</td>
<td>80.7</td>
<td>2.2</td>
</tr>
<tr>
<td>P.A.G.------------751</td>
<td>88.0</td>
<td>12.5</td>
<td>2.1</td>
<td>1.2</td>
<td>3.4</td>
<td>80.9</td>
<td>1.8</td>
</tr>
<tr>
<td>Funk's-----------G-5945</td>
<td>86.5</td>
<td>5.8</td>
<td>2.3</td>
<td>1.0</td>
<td>3.3</td>
<td>83.9</td>
<td>2.4</td>
</tr>
<tr>
<td>Funk's-----------G-4949</td>
<td>86.4</td>
<td>3.7</td>
<td>2.4</td>
<td>1.0</td>
<td>3.4</td>
<td>82.9</td>
<td>2.3</td>
</tr>
<tr>
<td>Pennington--------7-C-11A</td>
<td>86.0</td>
<td>10.2</td>
<td>2.8</td>
<td>1.0</td>
<td>3.0</td>
<td>80.8</td>
<td>2.1</td>
</tr>
<tr>
<td>Coker-------------71</td>
<td>74.8</td>
<td>8.6</td>
<td>1.9</td>
<td>1.1</td>
<td>3.3</td>
<td>79.3</td>
<td>1.9</td>
</tr>
<tr>
<td>Mosby-------------</td>
<td>64.9</td>
<td>26.1</td>
<td>3.3</td>
<td>1.0</td>
<td>2.8</td>
<td>80.3</td>
<td>2.3</td>
</tr>
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</table>

1/ Does not include 1970 data.
2/ Yields adjusted to 15.5% moisture and 56 lb. per bushel.
3/ 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.
Table 10. Some Characteristics of Corn Varieties Tested Two Years in Southern Alabama, 1971-1972

<table>
<thead>
<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre(^1)/Bu.</th>
<th>Lodged stalks Pct.</th>
<th>Quality(^2)/Rating</th>
<th>Ears per stalk No.</th>
<th>Height of ears Ft.</th>
<th>Shelling Pct.</th>
<th>Husk(^2)/Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennington-------</td>
<td>CHR-W</td>
<td>102.2</td>
<td>16.5</td>
<td>2.1</td>
<td>1.2</td>
<td>3.0</td>
<td>80.6</td>
<td>2.1</td>
</tr>
<tr>
<td>Funk's------------</td>
<td>G-795W-1</td>
<td>101.5</td>
<td>20.9</td>
<td>2.3</td>
<td>1.2</td>
<td>2.9</td>
<td>82.1</td>
<td>2.4</td>
</tr>
<tr>
<td>P.A.C.------------</td>
<td>751</td>
<td>97.3</td>
<td>12.1</td>
<td>2.0</td>
<td>1.3</td>
<td>3.5</td>
<td>81.1</td>
<td>1.7</td>
</tr>
<tr>
<td>McCundy-----------</td>
<td>67-14</td>
<td>97.0</td>
<td>8.2</td>
<td>2.0</td>
<td>1.0</td>
<td>2.6</td>
<td>79.4</td>
<td>2.5</td>
</tr>
<tr>
<td>Funk's------------</td>
<td>G-4949</td>
<td>96.8</td>
<td>2.4</td>
<td>2.4</td>
<td>1.0</td>
<td>3.5</td>
<td>83.1</td>
<td>2.3</td>
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<tr>
<td>Pennington-------</td>
<td>7-C-11A</td>
<td>96.7</td>
<td>8.6</td>
<td>2.8</td>
<td>1.0</td>
<td>3.1</td>
<td>82.0</td>
<td>2.4</td>
</tr>
<tr>
<td>McNair-----------</td>
<td>508</td>
<td>96.3</td>
<td>6.7</td>
<td>2.0</td>
<td>1.2</td>
<td>3.4</td>
<td>82.3</td>
<td>2.0</td>
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<td>Funk's------------</td>
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<td>93.6</td>
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<td>1.0</td>
<td>3.3</td>
<td>84.1</td>
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<td>Funk's------------</td>
<td>G-4761</td>
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<td>2.6</td>
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<td>1.1</td>
<td>3.4</td>
<td>79.1</td>
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<td>76.4</td>
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</table>

\(^1\) Yields adjusted to 15.5% moisture and 56 lb. per bushel.

\(^2\) 1 = excellent; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

\(^3\) Second generation variety obtained by saving Funk's G-795W-1 (F\(_1\)) seed.
Table 11. Some Characteristics of Corn Varieties Tested in Southern Alabama, 1972

<table>
<thead>
<tr>
<th>Brand name</th>
<th>Hybrid or variety</th>
<th>Yield per acre&lt;sup&gt;1/&lt;/sup&gt;</th>
<th>Lodged stalks</th>
<th>Quality&lt;sup&gt;2/&lt;/sup&gt;</th>
<th>Ears per stalk</th>
<th>Height of ears</th>
<th>Shelling</th>
<th>Husk&lt;sup&gt;2/&lt;/sup&gt;</th>
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<td>--511A</td>
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<td>14.4</td>
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<td>80.0</td>
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<td>14.7</td>
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<td>2.6</td>
<td>80.2</td>
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<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>T = Texas male sterile cytoplasm. <sup>4/</sup>Second generation variety obtained by saving Funk's G-795W-1(F<sub>1</sub>) seed.
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<th>Headland</th>
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<th>2-year 1971-72</th>
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1/ Yields adjusted to 15.5% moisture and 56 lb per bushel.
2/ Does not include 1970 data.
3/ Second generation variety obtained by saving Funk's G-795W-1(F) seed.
4/ T = Texas male sterile cytoplasm.

Table 12. 1972 Yield of Corn Varieties by Locations and Regional Averages for 1-5 Years in Southern Alabama.
Table 13. Yield of Irrigated and Unirrigated Corn Varieties Tested
One and Two Years at Camden, 1971 and 1971-721/

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<td>102.4</td>
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<tr>
<td>McCurdy----</td>
<td>36</td>
<td>95.0</td>
<td>96.2</td>
</tr>
<tr>
<td>P.A.G.-----</td>
<td>748</td>
<td>88.5</td>
<td>82.9</td>
</tr>
</tbody>
</table>

| Test average: | 108.5 | 101.7 |
| H.S.D. (.05): | 29.8  | 22.0  |
| C.V. % :      | 10.7  | 8.4   |

1/ Yields adjusted to 15.5% moisture and 56 lb. per bushel.
2/ Planted: April 17.
3/ Irrigation (furrow): June 9 and July 12.
4/ Second generation variety obtained by saving Funk's G-795W-1 (F₁) seed.
5/ T = Texas male sterile cytoplasm.