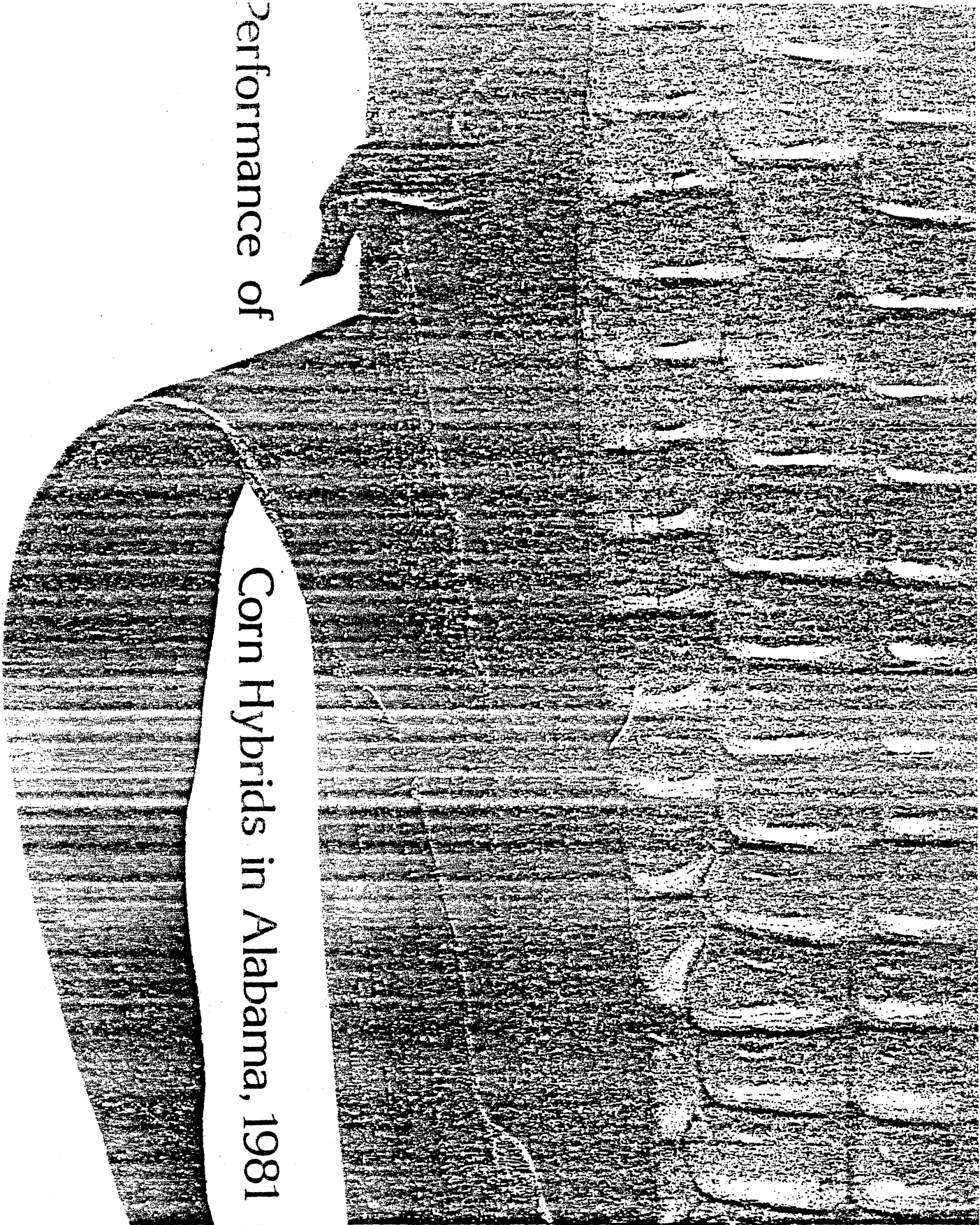


Performance of

Corn Hybrids in Alabama, 1981



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Department of Agronomy and Soils
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ACCEPTABLE HYBRIDS FOR 1982

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 in decending order of their composite rating. For relative maturity information of these hybrids, use the number of days to mid silk found in tables 4, 8, and 12. All hybrids have yellow grain except the white grain hybrids indicated by a (W).^{1/} All composite ratings are based on 1979-81 regional averages, found in tables 2, 6, and 10. All acceptable hybrids have been tested at least 3 years in the regular variety tests.

NORTHERN ALABAMA

| <u>Brand name</u> | <u>Hybrid</u> |
|-------------------|---------------|
| McCurdy----- | 84AA |
| P-A-G----- | SX333 |
| Ring Around---- | 1502 |
| Pioneer ----- | 3147 |
| Pioneer----- | 3369A |
| Trojan ----- | TXS119 |
| Gutwein ----- | 62 |
| Coker ----- | 19A |
| Trojan ----- | TXS115A |
| Pioneer ----- | 3184 |
| Funk's----- | G-4507A |
| Ring Around ---- | 1501 |
| Paymaster ----- | UC8951 |
| DeKalb ----- | XL72B |
| Funk's ----- | G-4611 |
| Funk's ----- | G-4606-1 |
| Trojan ----- | TXS114 |
| Coker ----- | 16 |
| *Coker ----- | 22 |

CENTRAL ALABAMA

| <u>Brand name</u> | <u>Hybrid</u> |
|--------------------|---------------|
| Ring Around ----- | 1502 |
| Trojan ----- | TXS114 |
| McCurdy ----- | 84AA |
| Pioneer ----- | 3369A |
| Pioneer ----- | 3147 |
| Funk's ----- | G-4507A |
| Pioneer ----- | 3368A |
| Trojan ----- | TXS119 |
| Coker ----- | 16 |
| Ring Around ----- | 1501 |
| Pioneer ----- | 3145 |
| McCurdy ----- | 67-14 |
| Funk's ----- | G-4606-1 |
| *Funk's ----- | G-4611 |
| *N.K. McNair ----- | 508 |
| *Funk's ----- | G-795W-1(W) |
| *Coker ----- | 22 |
| *Coker ----- | 56 |

SOUTHERN ALABAMA

| <u>Brand name</u> | <u>Hybrid</u> |
|----------------------|---------------|
| Ring Around ----- | 1502 |
| Pioneer ----- | 3368A |
| Paymaster ----- | UC8951 |
| Pioneer ----- | 3147 |
| McCurdy ----- | 84AA |
| Golden Harvest ----- | H-2500 |
| McCurdy ----- | 67-14 |
| Coker ----- | 19A |
| Pioneer ----- | 3145 |
| Pioneer ----- | 3369A |
| Funk's ----- | G-4507A |
| Funk's ----- | G-4606-1 |
| Ring Around ----- | 1501 |
| Trojan ----- | TXS114 |
| DeKalb ----- | XL80 |
| Coker ----- | 22 |
| *Funk's ----- | G-4949A |
| *Funk's ----- | G-4810 |
| *Coker ----- | 16 |
| *Funk's ----- | G-4864 |
| *Funk's ----- | G-4611 |

^{1/} For comparisons of white grain hybrids, see tables 20-24

* If present trends continue, this acceptable hybrid will be removed from the acceptable list next year in the region indicated.

Performance of Corn Hybrids in Alabama, 1981

Cliff Curriar ^{1/}

Corn hybrids are evaluated annually at 11 locations in the regular corn hybrid testing program of the Alabama Agricultural Experiment Station. Preliminary tests are also conducted at one location in northern, central, and southern Alabama. Entries in the preliminary tests are both experimental and newly released hybrids that have not been tested in the regular tests. If a hybrid is outstanding in the preliminary tests it is entered into the regular testing program the following year. White corn hybrids are tested at one location in each region. One regular and one white corn variety test are irrigated at Headland in southern Alabama.

Relatively high yields were obtained at Fairhope, Camden, Marion Junction, Crossville, Winfield, and Belle Mina in 1981. Average test yields at other locations ranged from 56 to 83 bushels per acre. Generally, lower than average yields were caused by the lack of rainfall during the period of greatest requirement for moisture by the hybrids. Hybrids, which differed in maturity, were affected by the timeliness of rainfall.

Location of the tests, cultural practices, planting dates, and average plant populations are shown in the table 1. All hybrids at a location were treated the same.

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

The experimental design was a randomized complete block with four replications. Row width was 36 to 40 inches depending on location. Two-row plots were used with row length varying from 18-30 feet depending on location. The target plant population for all tests was 20,000 plants per acre with a seeding rate of 23,000 seeds per acre. The target plant population for the irrigated test at Headland was 26,000 plants per acre with a seeding rate of 30,000 seeds per acre. After thinning, most plots maintained the desired plant populations..

Grain yields were adjusted to 15.5 percent moisture and converted to bushels (56 pounds) per acre. Stalks broken or leaning more than 45 degrees were considered lodged. Ear rot, earworm damage, grain size, and color were used to rate grain quality. Height or ears was measured from ground level to the base of the ear. Husks were rated according to tightness and extension beyond the tip of the ear. The mid-silk date measured the number of days from planting until one half of the plants in the plots were showing silks.

Regional averages for 3, 2, and 1 years in northern Alabama are presented in tables 2, 3, and 4, respectively. Table 5 contains yields by location, and regional average yields for 1 to 5 years in northern Alabama. Similar data are given for central Alabama in tables 6-9, and for southern Alabama in tables 10-13. Three, 2-, and 1-year averages for the irrigated test at Headland are shown in tables 14, 15, and 16, respectively. In 1981, approximately 1.3 inches of sprinkler irrigation water was applied on June 4, 10, 15, 18, 22, and 29. Approximately 8 inches

of irrigation water was applied over this period of time. Data from the test at Marion Junction are given separately from the results of of central Alabama and should be used to assist in comparing hybrids grown in that area. Performance of corn hybrids at Marion Junction for 3, 2, and 1 years are given in tables 17, 18, and 19, respectively. Yields and other characteristics of white corn hybrids grown at Crossville, the E. V. Smith Research Center, and Headland are given in tables 20-24. Results of the preliminary test are given in tables 27-29.

The corn hybrid tests are examined each year for viral and other disease symptoms by Dr. R. T. Gudauskas, Department of Botany, Plant Pathology, and Microbiology. When virus disease symptoms indicate that damage may occur, disease ratings are compiled and published in this report. An introduction and discussion of the procedure and results are given. Virus infection data from the hybrid test at Marion Junction and Winfield are given in tables 25 and 26, respectively.

When comparing hybrids, small differences in yield may not be large enough to be considered real differences. To aid in determining real differences between yields a statistical procedure, analysis of variance, was performed on the yield data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for yields at each location in 1981. When comparing two hybrids, the difference in their yield must exceed the L.S.D. value to be considered a real difference.

Since performance of hybrids varies with years and locations, long-term averages from several locations are more reliable than 1-year

location averages when evaluating a hybrid from an area. Three-year regional averages are considered sufficient to give a good indication of the relative performance of hybrids.

A composite rating system was used to determine the list of acceptable hybrids. The 3-year regional average grain yield of a hybrid was used as a base point. Then, the composite score was obtained by subtracting weighted values for lodging, quality, and ear height from the yield. The value subtracted for each characteristic was proportioned to the numerical values shown for the characteristics in tables 2, 6, and 10.

All acceptable hybrids are not equal in performance. Some are outstanding in one or more characteristics. Others may not be outstanding in any one characteristic, but possess a satisfactory combination of all characteristics. All information should be carefully considered when selecting a hybrid.

ACKNOWLEDGMENTS

Appreciation is expressed to the following superintendents of the substations and their staffs:

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Sand Mountain Substation, Crossville - J. T. Eason, Superintendent

Upper Coastal Plain Substation, Winfield - R. A. Moore, Jr., Superintendent

Central Alabama

Black Belt Substation, Marion Junction - L. A. Smith, Superintendent

Experiment Field, Prattville - F. T. Glaze, Superintendent

E. V. Smith Research Center, Shorter - J. R. Akridge, Superintendent

Lower Coastal Plain Substation, Camden - J. A. Little, Superintendent

Southern Alabama

Experiment Field, Brewton - J. A. Pitts, Superintendent

Experiment Field, Monroeville - J. A. Pitts, Superintendent

Gulf Coast Substation, Fairhope - E. L. Carden, Superintendent

Wiregrass Substation, Headland - J. G. Starling, Superintendent

Appreciation is also expressed to the following people: W. H. Hearn and Mrs. Sally Bagwell, Research Data Analysis for the computation, summarization, and analysis of the data in this report; R. T. Gudauskas, Department of Botany, Plant Pathology, and Microbiology for making virus ratings and the virus disease reactions section in this report; and Ms. Sandy Fleming for typing this manuscript.

Table 1. Locations and Cultural Practices for the 1981 Corn Hybrid Tests

| Location | Planting date | Nitrogen rate ^{1/} | Average plant population ^{2/} | Herbicides used |
|--|---------------|-----------------------------|--|------------------|
| <u>Northern Alabama</u> | | | | |
| Tennessee Valley Substation (Belle Mina) | 4/8 | 140 | 20 | Aatrex + Dual |
| Sand Mountain Substation (Crossville) | | | | |
| Regular test | 4/14 | 150 | 20 | Atrazine + Dual |
| Preliminary test | 4/14 | 150 | 20 | Atrazine + Dual |
| White corn test | 4/22 | 150 | 20 | Atrazine + Lasso |
| Upper Coastal Plain Substation (Winfield) | 4/14 | 120 | 20 | Aatrex |
| <u>Central Alabama</u> | | | | |
| E. V. Smith Research Center (Shorter) | | | | |
| Regular test | 3/27 | 125 | 23 | Aatrex |
| Preliminary test | 3/27 | 125 | 24 | Aatrex |
| White corn test | 3/27 | 125 | 23 | Aatrex |
| Lower Coastal Plain Substation (Camden) | 3/24 | 120 | 20 | Atrazine |
| Prattville Experiment Field (Prattville) | 4/8 | 150 | 17 | Atrazine + Prowl |
| Black Belt Substation (Marion Junction) | 3/17 | 120 | 19 | Atrazine |
| <u>Southern Alabama</u> | | | | |
| Brewton Experiment Field (Brewton) | 3/11 | 120 | 22 | Aatrex |
| Monroeville Experiment Field (Monroeville) | 3/10 | 120 | 20 | Aatrex |
| Wiregrass Substation (Headland) | | | | |
| Regular test (Unirrigated) | 3/17 | 130 | 21 | Aatrex |
| Regular test (Irrigated) | 3/17 | 200 | 22 | Aatrex |
| White corn test (Irrigated) | 3/17 | 200 | 22 | Aatrex |
| Gulf Coast Substation (Fairhope) | | | | |
| Regular test | 3/24 | 120 | 21 | Aatrex + Lasso |
| Preliminary test | 3/24 | 120 | 22 | Aatrex + Lasso |

1/ Lime, phosphorus, potassium were applied according to soil test recommendations.

2/ See the introduction for a discussion of plant populations.

Table 2. Characteristics of Corn Hybrids Tested Three Years in Northern Alabama, 1979-81^{1/}

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} |
|-----------------|----------|------------------------|---------------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{2/} | | Rating | per stalk | of ears | | Rating |
| | | Bu. | Pct. | | No. | Ft. | Pct. | |
| P-A-G----- | SX333 | 94 | 7.6 | 2.6 | 0.9 | 3.6 | 84.1 | 2.6 |
| McCurdy----- | 84AA | 93 | 6.3 | 2.6 | 0.9 | 3.4 | 82.4 | 2.3 |
| Ring Around---- | 1502 | 91 | 5.6 | 2.5 | 0.9 | 3.3 | 83.0 | 2.1 |
| Pioneer----- | 3147 | 90 | 4.6 | 2.6 | 0.9 | 3.7 | 82.1 | 2.3 |
| Gutwein----- | 62 | 90 | 6.3 | 2.7 | 0.9 | 3.5 | 84.6 | 2.5 |
| Trojan----- | TXS119 | 90 | 6.9 | 2.6 | 0.9 | 3.3 | 82.9 | 2.5 |
| Pioneer----- | 3369A | 90 | 8.0 | 2.4 | 0.9 | 3.3 | 81.5 | 2.6 |
| Coker----- | 19A | 89 | 4.7 | 2.6 | 0.9 | 3.6 | 82.5 | 2.2 |
| Trojan----- | TXS115A | 89 | 5.2 | 2.8 | 0.9 | 3.5 | 83.5 | 2.3 |
| Funk's----- | G-4307A | 89 | 6.7 | 2.7 | 0.9 | 3.5 | 83.7 | 2.5 |
| Ring Around---- | 1501 | 88 | 4.3 | 2.8 | 0.9 | 3.5 | 83.2 | 2.3 |
| Funk's----- | G-4606-1 | 87 | 12.1 | 2.5 | 1.0 | 3.2 | 82.0 | 2.5 |
| Paymaster----- | UC8951 | 87 | 6.3 | 2.6 | 0.9 | 3.5 | 82.3 | 2.2 |
| Trojan----- | TXS114 | 86 | 8.6 | 2.8 | 0.9 | 3.4 | 81.8 | 2.2 |
| Pioneer----- | 3184 | 86 | 1.8 | 2.6 | 0.9 | 3.2 | 79.3 | 2.5 |
| Funk's----- | G-4611 | 85 | 6.1 | 2.4 | 0.9 | 3.4 | 83.8 | 2.3 |
| DeKalb----- | XL72B | 85 | 3.5 | 2.7 | 0.9 | 3.3 | 83.6 | 2.4 |
| Coker----- | 16 | 84 | 7.7 | 2.6 | 0.9 | 3.3 | 83.2 | 2.4 |
| Coker----- | 22 | 83 | 10.0 | 2.7 | 0.9 | 3.4 | 81.5 | 2.3 |
| McCurdy----- | 67-14 | 82 | 8.7 | 2.6 | 0.8 | 3.6 | 78.3 | 2.3 |
| Funk's----- | G-4810 | 76 | 6.9 | 2.7 | 0.8 | 3.6 | 79.3 | 2.3 |
| DeKalb----- | XL394 | 75 | 6.0 | 2.6 | 0.8 | 4.0 | 80.5 | 2.0 |
| Coker----- | 56 | 75 | 9.0 | 2.5 | 0.9 | 3.7 | 80.9 | 2.1 |
| Funk's----- | G-795W-1 | 71 | 11.1 | 2.6 | 0.8 | 3.8 | 78.6 | 1.8 |

1/ Belle Mina, Crossville, and Winfield

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

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

Table 3. Characteristics of Corn Hybrids Tested Two Years in Northern Alabama, 1980-81^{1/}

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} |
|-------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{2/} | stalks | | per stalk | of ears | | |
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating |
| McCurdy | 7787 | 86 | 4.8 | 2.6 | 1.0 | 3.0 | 80.5 | 2.0 |
| McCurdy | 84AA | 86 | 4.6 | 2.6 | 0.9 | 3.3 | 81.6 | 2.2 |
| Gutwein | 62 | 85 | 3.0 | 2.6 | 1.0 | 3.3 | 83.6 | 2.4 |
| P-A-G | SX333 | 85 | 4.3 | 2.6 | 0.9 | 3.5 | 83.0 | 2.4 |
| Coker | 19 | 84 | 2.2 | 2.5 | 0.9 | 3.3 | 81.5 | 2.2 |
| Trojan | TXS119 | 83 | 4.9 | 2.5 | 0.9 | 3.2 | 82.2 | 2.3 |
| Funk's | G-4507A | 82 | 2.7 | 2.7 | 0.9 | 3.4 | 82.9 | 2.3 |
| Trojan | TXS115A | 82 | 1.9 | 2.8 | 0.9 | 3.3 | 82.3 | 2.1 |
| Coker | 19A | 82 | 3.0 | 2.7 | 0.9 | 3.5 | 81.7 | 2.2 |
| Ring Around | 1501 | 81 | 1.9 | 2.7 | 0.9 | 3.4 | 82.2 | 2.2 |
| Pioneer | 3369A | 81 | 7.7 | 2.5 | 0.9 | 3.1 | 81.6 | 2.5 |
| USS | 1515 | 79 | 5.0 | 2.6 | 1.0 | 3.0 | 81.9 | 2.2 |
| Trojan | TXS114 | 79 | 5.2 | 2.8 | 1.0 | 3.3 | 80.6 | 2.1 |
| Ring Around | 1502 | 79 | 2.9 | 2.5 | 0.9 | 3.2 | 81.6 | 2.0 |
| Funk's | G-4740 | 79 | 1.0 | 2.7 | 0.9 | 3.1 | 79.0 | 2.5 |
| Paymaster | UC8951 | 79 | 5.5 | 2.5 | 0.9 | 3.4 | 81.3 | 2.1 |
| DeKalb | XL72B | 78 | 2.7 | 2.7 | 0.9 | 3.2 | 81.4 | 2.2 |
| Pioneer | 3320 | 78 | 1.8 | 2.5 | 0.9 | 3.3 | 80.7 | 2.0 |
| Funk's | G-4611 | 78 | 3.6 | 2.4 | 0.9 | 3.3 | 81.7 | 2.1 |
| Gutwein | 2910 | 77 | 9.8 | 2.8 | 0.9 | 3.4 | 81.2 | 2.2 |
| Pioneer | 3147 | 76 | 3.5 | 2.6 | 0.8 | 3.5 | 82.1 | 2.2 |
| Funk's | G-4606-1 | 74 | 9.8 | 2.6 | 1.0 | 3.1 | 80.9 | 2.3 |
| Coker | 16 | 74 | 6.7 | 2.7 | 1.0 | 3.1 | 83.0 | 2.2 |
| Pioneer | 3184 | 74 | 0.9 | 2.8 | 0.9 | 3.0 | 78.7 | 2.5 |
| McCurdy | 67-14 | 72 | 5.0 | 2.6 | 0.8 | 3.4 | 78.1 | 2.1 |
| Coker | 22 | 72 | 8.9 | 2.8 | 0.9 | 3.3 | 80.0 | 2.1 |
| Funk's | G-4810 | 67 | 5.6 | 2.8 | 0.8 | 3.5 | 78.7 | 2.2 |
| DeKalb | XL394 | 66 | 3.6 | 2.8 | 0.8 | 3.9 | 79.8 | 1.9 |
| Coker | 56 | 63 | 8.0 | 2.5 | 0.9 | 3.6 | 80.7 | 2.2 |
| Funk's | G-795W-1 | 61 | 9.7 | 2.8 | 0.8 | 3.7 | 77.2 | 1.8 |

^{1/} Belle Mina, Crossville, and Winfield.

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

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

Table 4. Characteristics of Corn Hybrids Tested in Northern Alabama, 1981^{1/}

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} | Mid-silk |
|------------------|---------|------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | per acre ^{2/} | | Rating | No. | Ft. | | Rating | Days |
| McCurdy----- | 84AA | 120 | 4.1 | 2.2 | 1.0 | 3.7 | 83.0 | 2.1 | 71 |
| Paymaster----- | UC8201 | 116 | 3.0 | 2.4 | 1.0 | 3.7 | 85.4 | 2.4 | 70 |
| McCurdy----- | 7787 | 115 | 3.2 | 2.2 | 1.0 | 3.3 | 81.5 | 2.2 | 69 |
| Gutwein----- | 62 | 113 | 2.6 | 2.3 | 1.0 | 3.6 | 84.0 | 2.7 | 70 |
| P-A-G----- | SX333 | 113 | 4.3 | 2.2 | 1.0 | 3.9 | 84.0 | 2.4 | 70 |
| Trojan----- | TXS119 | 113 | 3.0 | 2.1 | 1.0 | 3.5 | 84.4 | 2.5 | 71 |
| Paymaster----- | UC9532 | 112 | 3.7 | 1.8 | 1.0 | 4.1 | 84.0 | 2.2 | 74 |
| Coker----- | 19A | 112 | 2.4 | 2.3 | 1.0 | 3.8 | 83.5 | 2.2 | 71 |
| Ring Around----- | 1502 | 112 | 3.4 | 2.2 | 1.0 | 3.5 | 83.0 | 2.0 | 70 |
| Pioneer----- | 3147 | 111 | 4.2 | 2.3 | 1.0 | 3.8 | 83.5 | 2.3 | 78 |
| Jacques----- | JX180 | 110 | 1.8 | 2.3 | 1.0 | 3.6 | 83.7 | 2.5 | 70 |
| Trojan----- | TXS114 | 110 | 3.2 | 2.4 | 1.0 | 3.6 | 82.6 | 2.3 | 70 |
| Paymaster----- | UC8951 | 110 | 5.1 | 1.9 | 1.0 | 3.7 | 82.6 | 2.1 | 72 |
| Ring Around----- | 1501 | 109 | 1.5 | 2.3 | 1.0 | 3.8 | 83.2 | 2.2 | 71 |
| Trojan----- | TXS115A | 109 | 1.9 | 2.5 | 1.0 | 3.6 | 83.5 | 2.3 | 70 |
| Coker----- | 19 | 109 | 2.0 | 2.3 | 1.0 | 3.6 | 82.4 | 2.2 | 70 |
| Pioneer----- | 3369A | 108 | 5.5 | 2.0 | 1.0 | 3.4 | 82.6 | 2.5 | 70 |
| Funk's----- | G-4740 | 108 | 1.1 | 2.6 | 1.1 | 3.3 | 80.3 | 2.8 | 77 |
| McCurdy----- | 7978 | 108 | 8.0 | 2.0 | 1.0 | 4.0 | 83.9 | 2.3 | 74 |
| Funk's----- | G-4611 | 107 | 1.9 | 2.0 | 1.0 | 3.6 | 83.3 | 2.3 | 73 |
| Funk's----- | G-4507A | 107 | 2.0 | 2.3 | 1.0 | 3.7 | 84.1 | 2.3 | 70 |
| Gutwein----- | 2910 | 107 | 7.5 | 2.3 | 1.0 | 3.8 | 82.5 | 2.3 | 73 |
| Big D----- | 4862 | 107 | 1.9 | 2.4 | 1.0 | 3.8 | 84.2 | 2.3 | 71 |
| USS----- | 1515 | 106 | 4.2 | 2.3 | 1.0 | 3.3 | 83.2 | 2.5 | 70 |
| Pioneer----- | 3184 | 105 | 0.5 | 2.2 | 1.0 | 3.3 | 80.2 | 2.8 | 74 |
| McCurdy----- | 67-14 | 105 | 5.2 | 2.2 | 1.0 | 4.0 | 79.1 | 2.3 | 76 |
| Pioneer----- | 3160 | 105 | 9.1 | 2.3 | 1.0 | 3.8 | 78.1 | 2.3 | 73 |
| Pioneer----- | 3320 | 104 | 1.7 | 2.2 | 1.0 | 3.6 | 81.6 | 1.9 | 72 |
| DeKalb----- | XL72BB | 103 | 2.7 | 2.3 | 1.1 | 3.7 | 81.9 | 2.8 | 75 |

continued

Table 4 . Characteristics of Corn Hybrids Tested in Northern Alabama, 1981^{1/} (continued)

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} | Mid- |
|----------------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{2/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| DeKalb ----- | XL72B | 103 | 1.8 | 2.4 | 1.0 | 3.8 | 82.4 | 2.5 | 74 |
| Coker ----- | 22 | 102 | 6.7 | 2.3 | 0.9 | 3.7 | 81.6 | 2.3 | 74 |
| Gold Kist ----- | GK-748 | 101 | 4.2 | 2.4 | 1.0 | 3.6 | 81.9 | 2.3 | 72 |
| Ring Around ----- | 1504 | 101 | 2.3 | 2.3 | 1.0 | 3.7 | 82.0 | 2.6 | 73 |
| Coker ----- | 16 | 101 | 6.3 | 2.3 | 1.0 | 3.4 | 85.6 | 2.5 | 70 |
| Funk's ----- | G-4606-1 | 99 | 12.3 | 2.2 | 1.0 | 3.5 | 81.9 | 2.5 | 72 |
| Golden Harvest ----- | H-2680 | 99 | 4.5 | 2.8 | 1.0 | 3.7 | 81.2 | 2.3 | 75 |
| Funk's ----- | G-4810 | 96 | 4.8 | 2.4 | 1.0 | 4.0 | 80.0 | 2.5 | 74 |
| DeKalb ----- | XL394 | 96 | 2.8 | 2.8 | 1.0 | 4.3 | 80.8 | 2.0 | 79 |
| Coker ----- | 56 | 90 | 8.8 | 2.0 | 1.1 | 3.9 | 83.4 | 2.3 | 79 |
| Funk's ----- | G-795W-1 | 86 | 11.4 | 2.3 | 1.0 | 4.1 | 78.7 | 1.8 | 79 |

^{1/} Belle Mina, Crossville, and Winfield.

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

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

Table 5. 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Northern Alabama ^{1/}

| Brand name | Hybrid | Belle Mina | Cross-ville | Win-field | Regional average yield per acre | | | | |
|-------------------|----------|------------|-------------|-----------|---------------------------------|---------------|---------------|---------------|---------------|
| | | | | | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Ring Around ----- | 1502 | 139 | 102 | 93 | 112 | 79 | 91 | 91 | 85 |
| Pioneer----- | 3369A | 130 | 96 | 100 | 108 | 81 | 90 | 90 | 85 |
| Pioneer----- | 3147 | 139 | 110 | 84 | 111 | 76 | 90 | 89 | 85 |
| Funk's----- | G-4507A | 126 | 101 | 95 | 107 | 82 | 89 | 87 | 82 |
| Trojan----- | TXS114 | 136 | 97 | 96 | 110 | 79 | 86 | 86 | 82 |
| Funk's----- | G-4611 | 144 | 98 | 80 | 107 | 78 | 85 | 84 | 79 |
| Coker----- | 16 | 126 | 79 | 98 | 101 | 74 | 84 | 82 | 78 |
| Coker----- | 22 | 137 | 83 | 86 | 102 | 72 | 83 | 82 | 77 |
| McCurdy----- | 67-14 | 129 | 99 | 85 | 105 | 72 | 82 | 82 | 75 |
| Funk's----- | G-4810 | 122 | 87 | 80 | 96 | 67 | 76 | 75 | 70 |
| Coker----- | 56 | 126 | 74 | 69 | 90 | 63 | 75 | 73 | 69 |
| DeKalb----- | XL394 | 108 | 93 | 88 | 96 | 66 | 75 | 74 | 68 |
| Funk's----- | G-795W-1 | 111 | 87 | 61 | 86 | 61 | 71 | 69 | 64 |
| McCurdy----- | 84AA | 144 | 109 | 106 | 120 | 86 | 93 | 92 | |
| Trojan----- | TXS115A | 121 | 107 | 100 | 109 | 82 | 89 | 90 | |
| Ring Around----- | 1501 | 124 | 105 | 100 | 109 | 81 | 88 | 89 | |
| Paymaster----- | UC8951 | 133 | 99 | 97 | 110 | 79 | 87 | 88 | |
| DeKalb----- | XL72B | 131 | 97 | 80 | 103 | 78 | 85 | 81 | |
| P-A-G----- | SX333 | 143 | 92 | 104 | 113 | 85 | 94 | | |
| Gutwein----- | 62 | 139 | 94 | 107 | 113 | 85 | 90 | | |
| Trojan----- | TXS119 | 139 | 104 | 95 | 113 | 83 | 90 | | |
| Coker----- | 19A | 139 | 103 | 93 | 112 | 82 | 89 | | |
| Funk's----- | G-4606-1 | 115 | 83 | 100 | 99 | 74 | 87 | | |
| Pioneer----- | 3184 | 150 | 96 | 70 | 105 | 74 | 86 | | |
| McCurdy----- | 7787 | 141 | 100 | 103 | 115 | 86 | | | |
| Coker----- | 19 | 139 | 96 | 93 | 109 | 84 | | | |
| Funk's----- | G-4740 | 137 | 94 | 93 | 108 | 79 | | | |
| USS----- | 1515 | 130 | 93 | 95 | 106 | 79 | | | |
| Pioneer----- | 3320 | 119 | 101 | 92 | 104 | 78 | | | |

continued

Table 5. 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Northern Alabama/ (Cont'd)

| Brand name | Hybrid | Regional average yield per acre | | | | | | | |
|---------------------|--------|---------------------------------|-----------------|---------------|---------------|------------------|------------------|------------------|------------------|
| | | Belle- mina | Cross- ville | Win- field | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Gutwein----- | 2910 | 142 | 91 | 88 | 107 | 77 | | | |
| Paymaster----- | UC8201 | 132 | 106 | 109 | 116 | | | | |
| Paymaster----- | UC9532 | 148 | 100 | 88 | 112 | | | | |
| Jacques----- | JX180 | 132 | 103 | 96 | 110 | | | | |
| McCurdy----- | 7978 | 134 | 98 | 91 | 108 | | | | |
| Big D----- | 4862 | 132 | 93 | 94 | 107 | | | | |
| Pioneer----- | 3160 | 110 | 105 | 98 | 105 | | | | |
| DeKalb----- | XL72BB | 145 | 83 | 82 | 103 | | | | |
| Ring Around----- | 1504 | 121 | 91 | 91 | 101 | | | | |
| Gold Kist----- | GK-748 | 122 | 90 | 91 | 101 | | | | |
| Golden Harvest----- | H-2680 | 122 | 89 | 85 | 99 | | | | |
| Test average: | | 132 | 96 | 91 | | | | | |
| L.S.D. (.05): | | 26 | 13 | 11 | | | | | |
| C.V.(%): | | 16.5 | 11.2 | 10.5 | | | | | |

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

Table 6. Characteristics of Corn Hybrids Tested Three years in Central Alabama, 1979-81^{1/}

| Brand- name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} |
|------------------|----------|---------------------------|--------|-----------------------|--------|--------------|----------|--------------------|
| | | per acre ^{2/} | stalks | | Rating | per stalk | | of ears |
| | | Bu. | Pct. | | No. | Ft. | | |
| Ring Around----- | 1502 | 83 | 9.4 | 1.9 | 0.9 | 3.2 | 81.3 | 1.8 |
| McCurdy----- | 84AA | 81 | 13.4 | 2.0 | 0.9 | 3.3 | 80.5 | 1.9 |
| Trojan----- | TXS114 | 81 | 13.6 | 2.0 | 0.9 | 3.1 | 81.1 | 1.8 |
| Funk's----- | G-4507A | 78 | 10.5 | 2.6 | 0.9 | 3.3 | 81.6 | 2.4 |
| Pioneer----- | 3369A | 78 | 11.8 | 1.8 | 0.9 | 3.0 | 80.3 | 2.3 |
| Pioneer----- | 3147 | 77 | 6.7 | 2.6 | 0.8 | 3.5 | 79.4 | 2.2 |
| Pioneer----- | 3368A | 76 | 10.7 | 2.1 | 0.9 | 3.2 | 80.8 | 2.2 |
| Trojan----- | TXS119 | 74 | 10.5 | 2.2 | 0.9 | 3.0 | 81.0 | 2.5 |
| Ring Around----- | 1501 | 74 | 11.6 | 2.5 | 0.9 | 3.2 | 82.9 | 2.5 |
| Coker----- | 16 | 73 | 12.4 | 2.2 | 0.9 | 2.9 | 79.8 | 2.6 |
| Funk's----- | G-4606-1 | 73 | 18.7 | 2.0 | 0.9 | 3.0 | 79.3 | 2.1 |
| McCurdy----- | 67-14 | 72 | 12.6 | 2.0 | 0.8 | 3.2 | 77.4 | 1.8 |
| Pioneer----- | 3145 | 71 | 6.1 | 2.2 | 0.9 | 3.5 | 76.2 | 1.6 |
| Funk's----- | G-4611 | 68 | 9.6 | 2.2 | 0.9 | 3.2 | 80.6 | 2.2 |
| Funk's----- | G-795W-1 | 68 | 14.3 | 2.4 | 0.8 | 3.6 | 77.0 | 1.7 |
| NK-McNair----- | 508 | 67 | 7.6 | 2.2 | 0.9 | 3.9 | 76.5 | 1.5 |
| Coker----- | 22 | 67 | 13.5 | 2.2 | 1.1 | 4.0 | 74.3 | 1.9 |
| Coker----- | 56 | 65 | 13.4 | 2.0 | 0.9 | 3.6 | 77.2 | 1.5 |
| Funk's----- | G-4949A | 63 | 6.9 | 2.1 | 0.8 | 3.9 | 76.2 | 1.8 |
| Coker----- | 77B | 61 | 9.7 | 2.3 | 0.8 | 3.8 | 76.9 | 1.5 |

1/ Camden, Camp Hill, Prattville, and E. V. Smith Research Center

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

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

Table 7. Characteristics of Corn Hybrids Tested Two Years in Central Alabama, 1980-81^{1/}

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} |
|-------------------|----------|------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|
| | | per acre ^{2/} | Pct. | Rating | No. | Ft. | Pct. | Rating |
| Pioneer ----- | 3369A | 82 | 13.2 | 1.7 | 1.0 | 3.0 | 79.4 | 2.0 |
| Ring Around ----- | 1502 | 81 | 9.3 | 1.8 | 0.9 | 3.1 | 79.4 | 1.7 |
| Pioneer ----- | 3320 | 81 | 8.9 | 1.7 | 0.9 | 3.1 | 79.7 | 1.5 |
| USS ----- | 1515 | 81 | 12.6 | 2.0 | 1.0 | 2.8 | 81.9 | 2.0 |
| McCurdy ----- | 84AA | 80 | 16.3 | 1.9 | 1.0 | 3.3 | 78.9 | 1.7 |
| Jacques ----- | JX180 | 79 | 16.3 | 2.0 | 1.0 | 3.2 | 80.7 | 2.2 |
| Funk's ----- | G-4507A | 79 | 11.8 | 2.6 | 1.0 | 3.2 | 79.8 | 2.2 |
| Trojan ----- | TXS114 | 79 | 16.5 | 2.0 | 1.0 | 3.0 | 78.6 | 1.6 |
| McCurdy ----- | 7787 | 78 | 27.3 | 2.3 | 1.0 | 3.3 | 78.0 | 2.1 |
| Pioneer ----- | 3368A | 78 | 11.6 | 2.0 | 1.0 | 3.2 | 80.1 | 2.2 |
| Ring Around ----- | 1501 | 78 | 11.8 | 2.3 | 0.9 | 3.2 | 81.8 | 2.4 |
| Funk's ----- | G-4740 | 75 | 5.8 | 2.7 | 1.0 | 3.0 | 77.5 | 2.5 |
| Gutwein ----- | 2910 | 74 | 16.7 | 2.4 | 0.9 | 3.4 | 78.0 | 1.8 |
| Trojan ----- | TXS119 | 73 | 12.2 | 2.1 | 0.9 | 2.9 | 79.2 | 2.3 |
| Pioneer ----- | 3147 | 73 | 6.5 | 2.7 | 0.9 | 3.5 | 78.3 | 2.1 |
| Coker ----- | 16 | 72 | 13.9 | 2.2 | 1.0 | 2.8 | 77.6 | 2.5 |
| USS ----- | 2315 | 72 | 13.2 | 2.1 | 0.9 | 3.5 | 80.2 | 2.0 |
| Funk's ----- | G-4606-1 | 72 | 21.9 | 2.1 | 1.0 | 3.0 | 76.7 | 1.9 |
| McCurdy ----- | 67-14 | 69 | 16.1 | 2.0 | 0.9 | 3.1 | 77.0 | 1.6 |
| Pioneer ----- | 3145 | 68 | 5.1 | 2.3 | 0.9 | 3.5 | 75.9 | 1.5 |
| Gold Kist ----- | GK-915 | 68 | 18.8 | 1.7 | 0.9 | 3.3 | 77.3 | 1.9 |
| Funk's ----- | G-4611 | 67 | 10.0 | 2.1 | 0.9 | 3.2 | 78.5 | 1.9 |
| Coker ----- | 22 | 65 | 14.1 | 2.2 | 1.2 | 4.4 | 69.2 | 1.7 |
| Funk's ----- | G-795W-1 | 63 | 16.5 | 2.5 | 0.9 | 3.5 | 74.9 | 1.6 |
| Coker ----- | 56 | 59 | 14.4 | 2.2 | 0.9 | 3.6 | 74.6 | 1.5 |
| Funk's ----- | G-4949A | 58 | 9.0 | 2.3 | 0.8 | 3.9 | 75.0 | 1.7 |
| Coker ----- | 77B | 56 | 11.9 | 2.5 | 0.8 | 3.9 | 74.5 | 1.3 |
| NK-McNair ----- | 508 | 55 | 7.7 | 2.5 | 0.9 | 4.0 | 71.3 | 1.5 |

^{1/} Camden, Camp Hill, Prattville, and E. V. Smith Research Center.

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

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

Table 8. Characteristics of Corn Hybrids Tested in Central Alabama, 1981^{1/}

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} | Mid- |
|-------------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{2/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| Pioneer ----- | 3369A | 90 | 20.5 | 1.5 | 1.0 | 3.1 | 81.6 | 1.8 | 68 |
| Pioneer ----- | 3160 | 86 | 14.3 | 1.5 | 1.0 | 3.5 | 79.9 | 1.3 | 70 |
| McCurdy ----- | 84AA | 84 | 20.4 | 1.8 | 1.0 | 3.5 | 80.5 | 1.5 | 69 |
| Funk's ----- | G-4507A | 84 | 18.6 | 2.3 | 1.0 | 3.4 | 82.0 | 1.8 | 68 |
| USS ----- | 1515 | 84 | 19.9 | 2.0 | 1.0 | 2.8 | 82.7 | 1.8 | 69 |
| Ring Around ----- | 1501 | 83 | 15.8 | 1.9 | 0.9 | 3.3 | 84.2 | 2.3 | 70 |
| Trojan ----- | TXS114 | 83 | 15.7 | 1.8 | 1.0 | 3.1 | 80.1 | 1.6 | 69 |
| Pioneer ----- | 3368A | 83 | 17.2 | 1.9 | 1.0 | 3.4 | 81.6 | 2.3 | 70 |
| Jacques ----- | JX247 | 82 | 13.4 | 1.9 | 1.0 | 3.5 | 80.6 | 1.9 | 71 |
| Big D ----- | 4862 | 82 | 17.0 | 2.5 | 0.9 | 3.3 | 83.3 | 1.8 | 70 |
| McCurdy ----- | 8150 | 82 | 18.6 | 2.0 | 1.0 | 3.6 | 82.0 | 1.4 | 69 |
| Pioneer ----- | 3320 | 81 | 12.3 | 1.5 | 0.9 | 3.1 | 82.9 | 1.7 | 70 |
| Ring Around ----- | 1502 | 81 | 11.6 | 1.7 | 1.0 | 3.3 | 80.8 | 1.5 | 68 |
| McCurdy ----- | 7787 | 81 | 33.3 | 2.1 | 1.0 | 2.6 | 79.1 | 1.6 | 67 |
| Jacques ----- | JX180 | 80 | 20.3 | 1.8 | 1.0 | 3.2 | 81.3 | 2.0 | 69 |
| Trojan ----- | TXS119 | 80 | 20.2 | 1.9 | 0.9 | 3.0 | 81.0 | 2.8 | 69 |
| Funk's ----- | G-4689 | 79 | 22.1 | 2.2 | 1.0 | 3.2 | 82.0 | 1.2 | 70 |
| Gutwein ----- | 62 | 79 | 15.0 | 2.4 | 0.9 | 3.4 | 82.2 | 2.1 | 69 |
| USS ----- | 2020 | 79 | 23.7 | 2.1 | 1.0 | 3.6 | 80.0 | 1.6 | 72 |
| Coker ----- | 16 | 78 | 17.9 | 1.9 | 1.0 | 2.9 | 77.7 | 2.6 | 67 |
| Funk's ----- | G-4606-1 | 77 | 36.7 | 2.3 | 1.0 | 3.1 | 77.6 | 2.1 | 70 |
| Coker ----- | 19 | 77 | 25.4 | 2.4 | 1.0 | 3.0 | 82.7 | 1.9 | 70 |
| Ring Around ----- | 1504 | 76 | 13.0 | 2.4 | 1.0 | 3.2 | 78.0 | 2.1 | 69 |
| DeKalb ----- | XL80 | 75 | 22.7 | 2.1 | 0.9 | 2.9 | 79.8 | 1.3 | 72 |
| USS ----- | 2315 | 75 | 16.4 | 2.2 | 0.9 | 3.6 | 81.0 | 2.0 | 73 |

continued

Table 8. Characteristics of Corn Hybrids Tested in Central Alabama, 1981 ^{1/} (Continued)

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} | Mid- |
|-------------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{2/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| Funk's ----- | G-4740 | 75 | 9.2 | 2.8 | 1.0 | 3.3 | 76.7 | 2.9 | 75 |
| Ring Around ----- | 1604 | 75 | 16.8 | 2.2 | 1.0 | 3.5 | 78.3 | 1.8 | 73 |
| Gutwein ----- | 2910 | 75 | 19.9 | 2.5 | 0.9 | 3.5 | 78.1 | 1.8 | 69 |
| McCurdy ----- | 67-14 | 73 | 23.2 | 2.1 | 0.9 | 3.2 | 78.1 | 1.5 | 74 |
| Pioneer ----- | 3145 | 73 | 7.8 | 2.3 | 0.9 | 3.6 | 77.6 | 1.6 | 71 |
| Pioneer ----- | 3147 | 71 | 8.2 | 2.5 | 0.9 | 3.7 | 78.6 | 2.2 | 75 |
| Funk's ----- | G-4611 | 70 | 16.1 | 1.9 | 0.9 | 3.3 | 80.0 | 1.7 | 72 |
| Gold Kist ----- | GK-915 | 69 | 24.4 | 1.4 | 0.8 | 3.5 | 79.4 | 2.0 | 70 |
| Coker ----- | 22 | 68 | 19.9 | 2.2 | 0.9 | 3.4 | 77.1 | 1.6 | 71 |
| Funk's ----- | G-795W-1 | 66 | 19.5 | 2.4 | 0.8 | 3.9 | 76.2 | 1.7 | 75 |
| DeKalb ----- | XL82 | 66 | 8.1 | 2.5 | 0.9 | 3.8 | 78.9 | 1.9 | 71 |
| Coker ----- | 56 | 63 | 17.9 | 2.3 | 0.9 | 3.7 | 74.5 | 1.5 | 75 |
| Funk's ----- | G-4949A | 62 | 12.3 | 2.3 | 0.8 | 4.0 | 75.7 | 1.8 | 75 |
| Coker ----- | 77B | 60 | 14.5 | 2.6 | 0.9 | 4.1 | 72.0 | 1.4 | 77 |
| NK-McNair ----- | 508 | 59 | 7.7 | 2.6 | 0.9 | 4.3 | 69.7 | 1.7 | 80 |

^{1/} Camden, Prattville, and E. V. Smith Research Center.

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

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

Table 9. 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Central Alabama^{1/}

| Brand name | Hybrid | E. V. Smith Research Center | | | Regional average yield per acre | | | | |
|------------------|----------|-----------------------------|------------|--------|---------------------------------|---------------|---------------|---------------|---------------|
| | | Camden | Prattville | Center | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Trojan----- | TXS114 | 112 | 67 | 69 | 83 | 79 | 81 | 73 | 63 |
| Ring Around----- | 1502 | 120 | 57 | 67 | 81 | 81 | 83 | 74 | 62 |
| Pioneer----- | 3147 | 110 | 49 | 54 | 71 | 73 | 77 | 69 | 62 |
| Funk's ----- | G-4507A | 113 | 65 | 76 | 84 | 79 | 78 | 71 | 59 |
| Pioneer ----- | 3369A | 129 | 72 | 69 | 90 | 82 | 78 | 68 | 59 |
| Pioneer----- | 3368A | 117 | 65 | 65 | 83 | 78 | 76 | 67 | 59 |
| Coker ----- | 16 | 114 | 48 | 70 | 78 | 72 | 73 | 64 | 55 |
| Pioneer----- | 3145 | 104 | 50 | 64 | 73 | 68 | 71 | 63 | 55 |
| McCurdy----- | 67-14 | 119 | 45 | 55 | 73 | 69 | 72 | 63 | 54 |
| Funks----- | G-795W-1 | 122 | 40 | 37 | 66 | 63 | 68 | 59 | 53 |
| NK-McNair----- | 508 | 122 | 21 | 35 | 59 | 55 | 67 | 57 | 53 |
| Coker----- | 56 | 112 | 41 | 36 | 63 | 59 | 65 | 57 | 52 |
| Funk's----- | G-4611 | 109 | 49 | 52 | 70 | 67 | 68 | 59 | 51 |
| Coker----- | 22 | 111 | 53 | 40 | 68 | 65 | 67 | 59 | 51 |
| Funk's----- | G-4949A | 112 | 39 | 36 | 62 | 58 | 63 | 53 | 49 |
| Coker----- | 77B | 118 | 32 | 31 | 60 | 56 | 61 | 51 | 47 |
| McCurdy----- | 84AA | 116 | 67 | 70 | 84 | 80 | 81 | | |
| Ring Around----- | 1501 | 101 | 64 | 82 | 83 | 78 | 74 | | |
| Trojan----- | TXS119 | 116 | 58 | 66 | 80 | 73 | 74 | | |
| Funk's----- | G-4606-1 | 121 | 50 | 61 | 77 | 72 | 73 | | |
| USS----- | 1515 | 114 | 61 | 77 | 84 | 81 | | | |
| Pioneer----- | 3320 | 111 | 66 | 68 | 81 | 81 | | | |
| Jacques----- | JX180 | 115 | 66 | 61 | 80 | 79 | | | |
| McCurdy----- | 7787 | 109 | 65 | 69 | 81 | 78 | | | |
| Funk's----- | G-4740 | 112 | 48 | 65 | 75 | 75 | | | |
| Gutwein----- | 2910 | 125 | 54 | 45 | 75 | 74 | | | |
| USS----- | 2315 | 112 | 54 | 59 | 75 | 72 | | | |
| Gold Kist----- | GK-915 | 92 | 53 | 63 | 69 | 68 | | | |

continued

Table 9 . 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Central Alabama ^{1/} (Cont'd)

| Brand name | Hybrid | E.V. Smith Research Center | | | Regional average yield per acre | | | | |
|------------------|--------|----------------------------|------------|--------|---------------------------------|---------------|---------------|---------------|---------------|
| | | Camden | Prattville | Center | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Pioneer----- | 3160 | 126 | 68 | 63 | 86 | | | | |
| McCurdy----- | 8150 | 116 | 71 | 58 | 82 | | | | |
| Jacques----- | JX247 | 128 | 63 | 57 | 82 | | | | |
| Big D----- | 4862 | 108 | 63 | 76 | 82 | | | | |
| Funk's----- | G-4689 | 119 | 67 | 51 | 79 | | | | |
| USS----- | 2020 | 117 | 57 | 62 | 79 | | | | |
| Gutwein----- | 62 | 113 | 67 | 57 | 79 | | | | |
| Coker----- | 19 | 105 | 63 | 64 | 77 | | | | |
| Ring Around----- | 1504 | 113 | 56 | 59 | 76 | | | | |
| DeKalb----- | XL80 | 116 | 47 | 63 | 75 | | | | |
| Ring Around----- | 1604 | 121 | 54 | 48 | 75 | | | | |
| DeKalb ----- | XL82 | 103 | 51 | 45 | 66 | | | | |
| Test average: | | 114 | 56 | 59 | | | | | |
| L.S.D. (.05): | | 13 | 10 | 18 | | | | | |
| C.V. (%): | | 9.7 | 14.9 | 25.9 | | | | | |

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

Table 10. Characteristics of Corn Hybrids Tested Three Years in Southern Alabama, 1979-81 ^{1/}

| Brand name | Hybrid | Yield per acre ^{2/} | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} |
|--------------------|----------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating |
| Ring Around ----- | 1502 | 104 | 10.2 | 2.3 | 1.0 | 2.8 | 83.2 | 2.2 |
| Pioneer ----- | 3147 | 101 | 14.0 | 2.4 | 1.0 | 2.9 | 81.1 | 2.5 |
| Pioneer ----- | 3368A | 100 | 10.2 | 1.8 | 1.0 | 2.9 | 82.7 | 2.5 |
| Paymaster ----- | UC8951 | 99 | 10.5 | 2.3 | 1.0 | 2.9 | 82.0 | 2.4 |
| McCurdy ----- | 84AA | 99 | 12.5 | 2.4 | 1.0 | 2.8 | 82.2 | 2.5 |
| Golden Harvest---- | H-2500 | 97 | 8.3 | 2.9 | 1.0 | 2.8 | 83.7 | 2.5 |
| Coker ----- | 19A | 96 | 9.8 | 2.6 | 1.0 | 2.9 | 82.9 | 2.5 |
| McCurdy ----- | 67-14 | 96 | 14.9 | 1.6 | 0.9 | 2.7 | 80.2 | 2.2 |
| Funk's ----- | G-4507A | 94 | 9.2 | 2.9 | 0.9 | 2.9 | 82.8 | 2.4 |
| Funk's ----- | G-4606-1 | 93 | 13.4 | 2.2 | 1.0 | 2.7 | 82.1 | 2.8 |
| Coker ----- | 22 | 93 | 12.4 | 2.4 | 0.9 | 2.9 | 81.6 | 2.4 |
| Trojan ----- | TXS114 | 93 | 13.0 | 2.5 | 1.0 | 2.6 | 81.5 | 2.4 |
| Northrup King ---- | PX95 | 92 | 9.4 | 2.7 | 0.9 | 3.0 | 81.6 | 2.8 |
| Ring Around ----- | 1501 | 92 | 6.6 | 2.9 | 0.9 | 2.9 | 82.8 | 2.5 |
| Pioneer ----- | 3145 | 92 | 8.3 | 1.9 | 1.0 | 2.9 | 77.9 | 2.1 |
| Pioneer ----- | 3369A | 92 | 10.2 | 2.2 | 1.0 | 2.7 | 82.7 | 2.6 |
| DeKalb ----- | XL80 | 90 | 13.7 | 1.8 | 0.9 | 2.6 | 80.3 | 2.1 |
| Funk's ----- | G-4949A | 89 | 10.3 | 1.8 | 1.0 | 3.1 | 80.0 | 2.0 |
| Pioneer ----- | 3030 | 88 | 14.3 | 1.6 | 1.0 | 3.1 | 76.7 | 1.5 |
| Funk's ----- | G-4810 | 88 | 11.3 | 1.9 | 0.9 | 2.9 | 79.8 | 2.5 |
| Funk's ----- | G-4864 | 86 | 12.4 | 1.7 | 0.9 | 3.0 | 81.8 | 1.8 |
| Coker ----- | 16 | 86 | 9.5 | 1.9 | 1.0 | 2.6 | 82.4 | 2.7 |
| Funk's ----- | G-4611 | 86 | 13.2 | 2.2 | 0.9 | 2.8 | 82.4 | 2.4 |
| Coker ----- | 77B | 80 | 15.4 | 1.9 | 1.0 | 3.9 | 69.5 | 2.4 |

^{1/} Brewton, Fairhope, Headland, and Monroeville.

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

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

Table 11. Characteristics of Corn Hybrids Tested Two Years in Southern Alabama, 1980-81^{1/}

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} |
|----------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{2/} | stalks | Rating | per stalk | of ears | | Pct. |
| | | Bu. | Pct. | | No. | Ft. | | |
| Ring Around | 1502 | 99 | 6.9 | 2.3 | 1.0 | 2.8 | 83.1 | 2.1 |
| McCurdy | 84AA | 96 | 10.6 | 2.4 | 1.0 | 2.8 | 82.0 | 2.5 |
| Pioneer | 3147 | 95 | 8.8 | 2.5 | 1.0 | 2.9 | 81.1 | 2.7 |
| Pioneer | 3368A | 94 | 7.2 | 1.9 | 1.0 | 2.9 | 82.7 | 2.5 |
| Paymaster | UC8951 | 94 | 8.9 | 2.3 | 1.0 | 2.9 | 81.6 | 2.4 |
| Coker | 19A | 93 | 7.0 | 2.5 | 1.0 | 2.9 | 82.8 | 2.4 |
| Pioneer | 3040 | 93 | 5.5 | 1.5 | 1.0 | 2.8 | 81.1 | 1.5 |
| Golden Harvest | H-2500 | 91 | 6.0 | 2.7 | 1.0 | 2.8 | 83.4 | 2.4 |
| P-A-G | SX333 | 91 | 7.9 | 2.5 | 1.0 | 2.9 | 82.9 | 2.7 |
| McCurdy | 67-14 | 91 | 8.6 | 1.6 | 1.0 | 2.6 | 80.4 | 2.2 |
| Trojan | TXS114 | 90 | 8.6 | 2.5 | 1.0 | 2.6 | 81.4 | 2.4 |
| Funk's | G-4507A | 90 | 6.1 | 2.8 | 1.0 | 2.8 | 82.1 | 2.4 |
| Gutwein | 2910 | 88 | 10.3 | 2.4 | 1.1 | 2.8 | 83.3 | 2.4 |
| Coker | 22 | 88 | 10.2 | 2.4 | 1.0 | 2.9 | 81.3 | 2.3 |
| Ring Around | 1501 | 88 | 3.5 | 2.8 | 1.0 | 2.9 | 82.6 | 2.3 |
| Funk's | G-4949A | 87 | 8.5 | 1.7 | 1.0 | 3.1 | 80.4 | 1.9 |
| USS | 2315 | 87 | 6.5 | 2.4 | 1.0 | 2.9 | 82.3 | 1.9 |
| DeKalb | XL80 | 86 | 5.7 | 1.9 | 1.0 | 2.6 | 80.4 | 2.0 |
| Northrup King | PX95 | 86 | 3.8 | 2.9 | 1.0 | 3.0 | 81.1 | 2.7 |
| Pioneer | 3030 | 85 | 11.9 | 1.6 | 1.0 | 3.0 | 76.5 | 1.5 |
| Pioneer | 3369A | 85 | 6.8 | 2.3 | 1.0 | 2.7 | 81.8 | 2.7 |
| Pioneer | 3145 | 84 | 4.7 | 1.9 | 1.0 | 2.9 | 77.5 | 2.0 |
| Funk's | G-4606-1 | 83 | 10.9 | 2.0 | 1.0 | 2.7 | 81.5 | 2.8 |
| Funk's | G-4810 | 81 | 9.0 | 1.9 | 1.0 | 2.8 | 79.2 | 2.5 |
| Funk's | G-4864 | 80 | 4.7 | 1.7 | 1.0 | 3.0 | 81.7 | 1.6 |
| Coker | 16 | 80 | 5.6 | 2.0 | 1.0 | 2.5 | 81.9 | 2.6 |
| Funk's | G-4611 | 78 | 6.9 | 2.1 | 1.0 | 2.8 | 81.8 | 2.4 |
| Coker | 77B | 78 | 15.6 | 1.9 | 1.1 | 4.1 | 65.1 | 2.3 |

1/ Brewton, Fairhope, Headland, and Monroeville.

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

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

Table 12. Characteristics of Corn Hybrids Tested in Southern Alabama, 1981^{1/}

| Brand name | Hybrid | Yield | | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} | Mid-silk |
|---------------------|---------|------------------------|------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | per acre ^{2/} | Pct. | | | | | | | |
| | | Bu. | Pct. | | Rating | No. | Ft. | Pct. | Rating | Days |
| McCurdy----- | 8150 | 103 | 7.3 | | 1.8 | 1.0 | 3.0 | 81.8 | 1.9 | 76 |
| Ring Around----- | 1502 | 99 | 11.9 | | 2.1 | 1.0 | 2.7 | 83.4 | 1.7 | 75 |
| Trojan----- | T1230 | 98 | 10.0 | | 2.0 | 1.0 | 2.9 | 84.0 | 2.0 | 78 |
| Pioneer----- | 3368A | 98 | 9.2 | | 1.5 | 1.0 | 2.9 | 83.8 | 2.1 | 76 |
| McCurdy----- | 84AA | 97 | 15.8 | | 2.1 | 1.0 | 2.7 | 82.8 | 2.3 | 76 |
| Jacques----- | JX247 | 97 | 16.6 | | 2.3 | 1.0 | 2.9 | 83.5 | 2.0 | 77 |
| Paymaster----- | UC8951 | 97 | 15.4 | | 1.9 | 1.0 | 2.8 | 82.6 | 1.9 | 75 |
| Trojan----- | TXS115A | 96 | 10.3 | | 2.4 | 1.0 | 2.7 | 83.3 | 2.4 | 75 |
| Coker----- | 19A | 96 | 12.0 | | 2.2 | 1.0 | 2.9 | 83.6 | 1.9 | 76 |
| Trojan----- | TXS114 | 96 | 9.5 | | 2.1 | 1.0 | 2.6 | 82.1 | 2.2 | 75 |
| Paymaster----- | UC9902 | 94 | 10.0 | | 2.6 | 1.0 | 3.1 | 84.5 | 1.9 | 78 |
| DeKalb----- | XL82 | 94 | 7.9 | | 2.1 | 0.9 | 3.0 | 80.8 | 2.2 | 76 |
| Pioneer----- | 3040 | 94 | 7.2 | | 1.4 | 1.0 | 2.8 | 81.0 | 1.1 | 79 |
| Funk's----- | G-4507A | 93 | 10.1 | | 2.3 | 1.0 | 2.8 | 82.7 | 2.1 | 75 |
| Golden Harvest----- | H-2775A | 93 | 12.9 | | 1.7 | 1.0 | 2.6 | 82.1 | 2.2 | 76 |
| Gutwein----- | 2910 | 92 | 14.6 | | 2.2 | 1.0 | 2.9 | 83.9 | 2.3 | 76 |
| Funk's----- | G-4689 | 92 | 6.7 | | 2.0 | 1.0 | 2.7 | 84.8 | 1.6 | 76 |
| McCurdy----- | 67-14 | 91 | 12.7 | | 1.5 | 1.0 | 2.6 | 81.1 | 1.8 | 78 |
| McCurdy----- | 8230 | 91 | 9.4 | | 1.6 | 1.0 | 2.8 | 80.1 | 1.5 | 77 |
| P-A-G----- | SX333 | 91 | 12.4 | | 2.3 | 1.0 | 2.8 | 83.3 | 2.5 | 76 |
| Pioneer----- | 3369A | 90 | 10.5 | | 1.8 | 1.0 | 2.7 | 83.7 | 2.3 | 74 |
| Ring Around----- | 1604 | 90 | 14.7 | | 2.1 | 1.0 | 2.9 | 83.9 | 2.1 | 77 |
| Pioneer----- | 3147 | 90 | 12.9 | | 2.3 | 0.9 | 2.9 | 82.2 | 2.3 | 82 |
| Golden Harvest----- | H-2500 | 90 | 9.7 | | 2.5 | 1.0 | 2.7 | 83.7 | 2.3 | 76 |
| USS----- | 2315 | 89 | 8.5 | | 2.1 | 0.9 | 2.8 | 83.3 | 1.8 | 76 |

continued

Table 12. Characteristics of Corn Hybrids Tested in Southern Alabama, 1981^{1/} (Continued)

| Brand name | Hybrid | Yield per acre ^{2/} | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} | Mid-silk |
|--------------------|----------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Pioneer----- | 3145 | 89 | 5.7 | 1.9 | 1.0 | 2.8 | 78.3 | 1.8 | 76 |
| Ring Around----- | 1501 | 88 | 5.4 | 2.5 | 1.0 | 2.8 | 84.0 | 1.9 | 76 |
| Northrup King----- | PX95 | 88 | 6.9 | 2.6 | 1.0 | 3.1 | 81.9 | 2.4 | 77 |
| Coker----- | 22 | 88 | 16.5 | 2.1 | 1.0 | 2.9 | 82.4 | 2.1 | 76 |
| Pioneer----- | 3160 | 87 | 12.8 | 1.6 | 1.0 | 2.7 | 78.4 | 1.4 | 76 |
| Funk's----- | G-4949A | 86 | 12.4 | 1.4 | 1.0 | 3.1 | 80.6 | 1.9 | 81 |
| Coker----- | 16 | 86 | 8.0 | 1.8 | 1.0 | 2.5 | 83.2 | 2.1 | 75 |
| Funk's----- | G-4810 | 86 | 12.8 | 1.8 | 0.9 | 2.9 | 79.9 | 2.1 | 78 |
| Funk's----- | G-4606-1 | 86 | 17.5 | 1.8 | 1.0 | 2.6 | 82.7 | 2.5 | 76 |
| DeKalb----- | XL80 | 85 | 7.0 | 1.7 | 1.0 | 2.5 | 81.6 | 1.7 | 78 |
| Pioneer----- | 3030 | 84 | 17.3 | 1.8 | 1.0 | 3.1 | 76.2 | 1.1 | 82 |
| McCurdy----- | 7787 | 77 | 29.3 | 2.3 | 1.0 | 2.4 | 82.4 | 2.3 | 74 |
| Funk's----- | G-4611 | 77 | 10.4 | 2.1 | 1.0 | 2.7 | 83.2 | 1.8 | 76 |
| Coker----- | 77B | 76 | 22.3 | 1.7 | 1.0 | 3.2 | 79.8 | 1.6 | 83 |
| Funk's----- | G-4864 | 75 | 6.0 | 1.8 | 1.0 | 3.0 | 82.1 | 1.4 | 81 |

1/ Brewton, Fairhope, Headland, and Monroeville.

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

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

Table 13. 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Southern Alabama ^{1/}

| Brand name | Hybrid | Regional average yield per acre | | | | | | | | |
|--------------------|----------|---------------------------------|---------|-------------|----------|------------|---------------|---------------|---------------|---------------|
| | | Fairhope | Brewton | Monroeville | Headland | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Ring Around----- | 1502 | 130 | 85 | 97 | 86 | 99 | 99 | 104 | 108 | 99 |
| Pioneer----- | 3368A | 131 | 97 | 82 | 81 | 98 | 94 | 100 | 107 | 97 |
| Pioneer----- | 3147 | 117 | 80 | 77 | 86 | 90 | 95 | 101 | 106 | 96 |
| McCurdy----- | 67-14 | 130 | 76 | 73 | 86 | 91 | 91 | 96 | 101 | 93 |
| Funk's----- | G-4507A | 122 | 87 | 84 | 79 | 93 | 90 | 94 | 101 | 92 |
| Trojan----- | TXS114 | 124 | 87 | 96 | 78 | 96 | 90 | 93 | 99 | 92 |
| Coker----- | 22 | 112 | 92 | 79 | 69 | 88 | 88 | 93 | 102 | 91 |
| Pioneer----- | 3369A | 138 | 73 | 70 | 84 | 90 | 85 | 92 | 101 | 91 |
| Ring Around----- | 1501 | 111 | 82 | 90 | 71 | 88 | 88 | 92 | 99 | 91 |
| Pioneer----- | 3145 | 112 | 92 | 74 | 80 | 89 | 84 | 92 | 98 | 90 |
| DeKalb----- | XL80 | 123 | 67 | 74 | 76 | 85 | 86 | 90 | 96 | 88 |
| Coker----- | 16 | 113 | 73 | 85 | 72 | 86 | 80 | 86 | 94 | 88 |
| Funk's----- | G-4810 | 105 | 86 | 95 | 58 | 86 | 81 | 88 | 96 | 87 |
| Funk'----- | G-4949A | 114 | 90 | 70 | 70 | 86 | 87 | 89 | 97 | 86 |
| Funk's----- | G-4611 | 114 | 58 | 72 | 65 | 77 | 78 | 86 | 93 | 86 |
| Funk's----- | G-4864 | 90 | 75 | 75 | 60 | 75 | 80 | 86 | 92 | 84 |
| Pioneer----- | 3030 | 106 | 94 | 70 | 67 | 84 | 85 | 88 | 94 | 83 |
| Coker----- | 77B | 107 | 62 | 67 | 69 | 76 | 78 | 80 | 92 | 81 |
| McCurdy----- | 84AA | 142 | 87 | 83 | 76 | 97 | 96 | 99 | 106 | |
| Golden Harvest---- | H-2500 | 126 | 74 | 87 | 72 | 90 | 91 | 97 | 103 | |
| Paymaster----- | UC8951 | 136 | 82 | 92 | 76 | 97 | 94 | 99 | | |
| Coker----- | 19A | 132 | 78 | 93 | 82 | 96 | 93 | 96 | | |
| Funk's----- | G-4606-1 | 120 | 74 | 79 | 69 | 86 | 83 | 93 | | |
| Northrup King---- | PX95 | 135 | 71 | 84 | 63 | 88 | 86 | 92 | | |
| Pioneer----- | 3040 | 118 | 85 | 93 | 78 | 94 | 93 | | | |
| P-A-G----- | SX333 | 123 | 73 | 97 | 70 | 91 | 91 | | | |
| Gutwein----- | 2910 | 141 | 86 | 73 | 69 | 92 | 88 | | | |
| USS----- | 2315 | 113 | 71 | 82 | 91 | 89 | 87 | | | |
| McCurdy----- | 8150 | 128 | 96 | 112 | 78 | 103 | | | | |
| Trojan----- | T1230 | 141 | 89 | 83 | 79 | 98 | | | | |
| Jacques----- | JX247 | 136 | 96 | 90 | 66 | 97 | | | | |

continued

Table 13. 1981 Yield of Corn Hybrids by Location and Regional Averages for 1-5 Years in Southern Alabama ^{1/} (Cont'd)

| Brand name | Hybrid | Fairhope | Brewton | Monroeville | Headland | Regional average yield per acre | | | | |
|--------------------|---------|----------|---------|-------------|----------|---------------------------------|---------------|---------------|---------------|---------------|
| | | | | | | 1-yr. 1981 | 2-yr. 1980-81 | 3-yr. 1979-81 | 4-yr. 1978-81 | 5-yr. 1977-81 |
| | | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. | Bu. |
| Trojan----- | TXS115A | 132 | 79 | 95 | 78 | 96 | | | | |
| Paymaster----- | UC9902 | 145 | 73 | 85 | 74 | 94 | | | | |
| DeKalb----- | XL82 | 124 | 85 | 89 | 76 | 94 | | | | |
| Golden Harvest---- | H-2775A | 138 | 84 | 83 | 65 | 93 | | | | |
| Funk's----- | G-4689 | 123 | 68 | 93 | 85 | 92 | | | | |
| McCurdy----- | 8230 | 131 | 79 | 76 | 78 | 91 | | | | |
| Ring Around----- | 1604 | 126 | 96 | 69 | 71 | 90 | | | | |
| Pioneer----- | 3160 | 137 | 62 | 83 | 66 | 87 | | | | |
| McCurdy----- | 7787 | 119 | 50 | 72 | 69 | 77 | | | | |
| Test Average | | 124 | 80 | 83 | 74 | | | | | |
| L.S.D. (.05): | | 12 | 24 | 17 | 11 | | | | | |
| C.V. (%): | | 8.1 | 25.0 | 17.1 | 12.7 | | | | | |

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

Table 14. Characteristics of Corn Hybrids Tested Under Irrigation Three Years at Headland, 1979-81

| Brand name | Hybrid | Yield per acre ^{1/} Bu. | Lodged stalks Pct. | Quality ^{2/} Rating | Ears per stalk No. | Height of ears Ft. | Shelling Pct. | Husk ^{2/} Rating |
|----------------|----------|-------------------------------------|-----------------------|---------------------------------|-----------------------|-----------------------|------------------|------------------------------|
| Ring Around | 1502 | 166 | 4.9 | 2.2 | 1.0 | 2.9 | 85.0 | 2.6 |
| McCurdy | 84AA | 166 | 7.4 | 2.4 | 1.1 | 3.0 | 84.6 | 2.4 |
| Paymaster | UC8951 | 159 | 9.3 | 2.3 | 1.0 | 3.0 | 84.4 | 1.8 |
| Northrup King | PX95 | 157 | 7.3 | 2.6 | 1.1 | 3.0 | 83.8 | 2.3 |
| Pioneer | 3368A | 156 | 4.4 | 2.2 | 1.0 | 2.9 | 85.1 | 2.3 |
| Pioneer | 3147 | 154 | 10.2 | 2.9 | 1.0 | 3.0 | 83.3 | 2.3 |
| Coker | 19A | 153 | 3.8 | 2.3 | 1.0 | 3.0 | 85.1 | 2.4 |
| Funk's | G-4606-1 | 152 | 7.7 | 2.4 | 1.0 | 2.9 | 84.7 | 2.1 |
| Coker | 22 | 151 | 11.0 | 2.5 | 1.1 | 2.8 | 84.1 | 2.7 |
| Coker | 77B | 150 | 11.0 | 2.5 | 1.2 | 3.3 | 82.7 | 2.0 |
| Funk's | G-4507A | 150 | 9.3 | 2.8 | 1.0 | 3.0 | 86.7 | 2.8 |
| Trojan | TXS114 | 147 | 6.9 | 2.3 | 1.0 | 2.8 | 84.2 | 2.4 |
| McCurdy | 67-14 | 146 | 14.8 | 1.9 | 1.0 | 2.9 | 82.0 | 2.3 |
| Funk's | G-4949A | 145 | 9.3 | 2.1 | 1.0 | 3.0 | 81.6 | 1.9 |
| Pioneer | 3145 | 143 | 4.6 | 2.2 | 1.0 | 2.9 | 80.1 | 1.8 |
| Golden Harvest | H-2500 | 143 | 5.5 | 2.7 | 1.0 | 2.9 | 85.6 | 2.5 |
| Pioneer | 3030 | 140 | 10.9 | 2.1 | 1.1 | 3.1 | 78.8 | 1.8 |
| Ring Around | 1501 | 139 | 6.2 | 2.6 | 1.0 | 3.0 | 84.9 | 2.9 |
| Coker | 16 | 137 | 6.7 | 2.5 | 1.0 | 2.7 | 85.1 | 2.3 |
| Pioneer | 3369A | 135 | 7.5 | 2.6 | 1.0 | 2.9 | 84.3 | 2.8 |
| DeKalb | XL80 | 132 | 11.2 | 2.3 | 1.0 | 2.8 | 84.5 | 2.2 |
| Funk's | G-4810 | 132 | 12.1 | 2.3 | 1.0 | 2.8 | 82.0 | 2.3 |
| Funk's | G-4864 | 129 | 8.0 | 2.7 | 1.0 | 2.9 | 83.3 | 1.9 |
| Funk's | G-4611 | 125 | 8.9 | 2.6 | 1.0 | 2.9 | 85.4 | 2.3 |

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

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

Table 15. Characteristics of Corn Hybrids Tested Under Irrigation Two Years at Headland, 1980-81

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} |
|---------------------|----------|-------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|
| | | per acre ^{1/} Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating |
| Gutwein ----- | 2910 | 157 | 3.1 | 2.5 | 1.1 | 2.8 | 86.7 | 2.4 |
| Ring Around----- | 1502 | 156 | 1.2 | 2.3 | 1.0 | 2.9 | 85.2 | 2.8 |
| McCurdy ----- | 84AA | 156 | 2.8 | 2.5 | 1.1 | 3.0 | 85.5 | 2.4 |
| P-A-G ----- | SX333 | 149 | 2.1 | 2.6 | 1.0 | 2.9 | 86.6 | 2.8 |
| Pioneer ----- | 3147 | 147 | 2.3 | 3.0 | 1.0 | 3.0 | 83.8 | 2.1 |
| Funk's ----- | G-4507A | 147 | 0.8 | 3.0 | 1.0 | 3.1 | 86.3 | 2.8 |
| Paymaster ----- | UC8951 | 147 | 2.0 | 2.4 | 1.0 | 3.0 | 84.8 | 1.8 |
| Trojan ----- | TXS114 | 146 | 2.2 | 2.4 | 1.1 | 2.9 | 84.2 | 2.3 |
| Pioneer----- | 3368A | 144 | 1.0 | 2.3 | 1.0 | 2.8 | 86.0 | 2.3 |
| Northrup King----- | PX95 | 142 | 1.2 | 2.5 | 1.0 | 2.9 | 84.1 | 2.0 |
| Coker ----- | 19A | 142 | 0.6 | 2.4 | 1.0 | 3.0 | 85.3 | 2.4 |
| Coker ----- | 77B | 141 | 5.0 | 2.4 | 1.2 | 3.2 | 83.9 | 1.9 |
| Coker ----- | 22 | 140 | 1.5 | 2.8 | 1.0 | 2.8 | 84.5 | 2.7 |
| Funk's ----- | G-4606-1 | 140 | 1.1 | 2.6 | 1.1 | 2.9 | 85.0 | 2.0 |
| Golden Harvest----- | H-2500 | 138 | 1.3 | 2.6 | 1.0 | 2.9 | 85.6 | 2.5 |
| McCurdy ----- | 67-14 | 137 | 5.1 | 1.9 | 1.0 | 2.9 | 83.6 | 2.1 |
| USS ----- | 2315 | 137 | 1.6 | 2.4 | 1.0 | 3.1 | 84.6 | 2.5 |
| Funk's ----- | G-4949A | 137 | 2.5 | 2.1 | 1.0 | 3.0 | 82.9 | 1.5 |
| Pioneer ----- | 3030 | 137 | 3.2 | 2.0 | 1.1 | 3.0 | 80.1 | 1.6 |
| Pioneer ----- | 3040 | 135 | 4.6 | 2.1 | 1.1 | 2.9 | 83.3 | 1.5 |
| Ring Around----- | 1501 | 128 | 1.4 | 2.8 | 1.0 | 3.0 | 84.5 | 2.7 |
| Pioneer ----- | 3145 | 126 | 0.4 | 2.3 | 1.0 | 2.9 | 81.3 | 1.8 |
| DeKalb ----- | XL80 | 126 | 3.8 | 2.4 | 1.0 | 2.6 | 82.7 | 1.9 |
| Coker ----- | 16 | 122 | 1.0 | 2.6 | 1.0 | 2.6 | 85.5 | 2.1 |
| Pioneer----- | 3369A | 122 | 2.0 | 2.9 | 1.0 | 2.8 | 84.5 | 2.6 |
| Funk's ----- | G-4810 | 120 | 5.3 | 2.4 | 1.0 | 2.7 | 82.4 | 2.1 |
| Funk's ----- | G-4864 | 116 | 2.4 | 2.6 | 1.0 | 2.9 | 84.1 | 1.8 |
| Funk's ----- | G-4611 | 113 | 2.0 | 2.8 | 1.0 | 2.8 | 86.0 | 2.5 |

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

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

Table 16. Characteristics of Corn Hybrids Tested Under Irrigation One Year at Headland, 1981^{1/}

| Brand name | Hybrid | Yield per acre ^{2/} | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} | Mid-silk |
|----------------------|----------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Gutwein ----- | 2910 | 149 | 2.8 | 2.3 | 1.0 | 2.4 | 87.4 | 2.5 | 77 |
| Ring Around ----- | 1604 | 148 | 2.5 | 2.5 | 1.1 | 2.7 | 85.2 | 3.0 | 77 |
| McCurdy ----- | 84AA | 147 | 3.8 | 2.3 | 1.1 | 2.5 | 85.3 | 2.3 | 76 |
| Paymaster ----- | UC9902 | 146 | 1.6 | 2.3 | 1.0 | 2.8 | 86.6 | 2.8 | 77 |
| Trojan ----- | T1230 | 146 | 2.1 | 2.0 | 1.1 | 2.6 | 85.7 | 2.5 | 77 |
| Jacques ----- | JX247 | 145 | 1.6 | 2.3 | 1.0 | 2.5 | 85.0 | 2.3 | 77 |
| McCurdy ----- | 8150 | 143 | 2.4 | 2.0 | 1.1 | 2.7 | 84.3 | 2.5 | 77 |
| Paymaster ----- | UC8951 | 138 | 0.0 | 2.0 | 1.0 | 2.5 | 85.2 | 1.8 | 76 |
| Trojan ----- | TXS115A | 136 | 0.9 | 2.3 | 1.0 | 2.6 | 86.4 | 2.5 | 77 |
| Funk's ----- | G-4507A | 136 | 0.8 | 2.8 | 1.0 | 2.5 | 86.5 | 3.0 | 77 |
| Pioneer ----- | 3147 | 136 | 2.0 | 2.5 | 1.0 | 2.6 | 84.1 | 2.5 | 80 |
| Ring Around ----- | 1502 | 136 | 2.0 | 2.3 | 1.0 | 2.5 | 85.6 | 3.0 | 77 |
| Coker ----- | 22 | 135 | 1.6 | 2.3 | 1.0 | 2.5 | 84.1 | 3.3 | 76 |
| P-A-G ----- | SX333 | 134 | 2.8 | 2.3 | 1.0 | 2.5 | 86.9 | 3.5 | 76 |
| Coker ----- | 19A | 133 | 0.8 | 2.3 | 1.0 | 2.5 | 85.4 | 2.5 | 77 |
| McCurdy ----- | 8230 | 130 | 0.8 | 2.0 | 1.1 | 2.5 | 83.2 | 1.8 | 78 |
| Pioneer ----- | 3368A | 129 | 2.0 | 2.0 | 1.0 | 2.5 | 86.4 | 2.8 | 77 |
| Golden Harvest ----- | H-2500 | 129 | 0.4 | 2.3 | 1.0 | 2.5 | 86.0 | 2.8 | 77 |
| Funk's ----- | G-4606-1 | 129 | 1.2 | 2.0 | 1.0 | 2.3 | 85.0 | 2.0 | 77 |
| Northrup King ----- | PX95 | 128 | 1.1 | 2.3 | 1.0 | 2.7 | 84.4 | 2.0 | 78 |
| McCurdy ----- | 7787 | 127 | 2.9 | 2.3 | 1.1 | 2.2 | 85.9 | 2.5 | 76 |
| Trojan ----- | TXS114 | 127 | 1.3 | 2.3 | 1.0 | 2.4 | 84.5 | 2.5 | 78 |
| McCurdy ----- | 67-14 | 127 | 3.7 | 1.8 | 1.0 | 2.4 | 83.4 | 2.3 | 79 |
| USS ----- | 2315 | 127 | 2.4 | 2.3 | 1.0 | 2.6 | 85.6 | 3.0 | 79 |
| Coker ----- | 77B | 127 | 4.8 | 2.5 | 1.1 | 3.0 | 83.5 | 1.8 | 80 |
| Golden Harvest ----- | H-2775A | 125 | 5.2 | 2.3 | 1.1 | 2.4 | 84.1 | 3.0 | 76 |
| Pioneer ----- | 3030 | 123 | 2.0 | 2.0 | 1.0 | 2.6 | 79.7 | 1.5 | 84 |
| Funk's ----- | G-4689 | 122 | 1.6 | 2.5 | 1.0 | 2.4 | 85.7 | 1.8 | 77 |
| DeKalb ----- | XL82 | 122 | 2.9 | 2.0 | 1.0 | 2.5 | 83.5 | 2.8 | 77 |

continued

Table 16. Characteristics of Corn Hybrids Tested Under Irrigation One Year at Headland, 1981^{1/} (Continued)

| Brand name | Hybrid | Yield | Lodged | Quality ^{3/} | Ears | Height | Shelling | Husk ^{3/} | Mid- |
|------------------|---------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{2/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| Pioneer----- | 3160 | 119 | 3.4 | 1.8 | 1.1 | 2.2 | 82.5 | 1.5 | 77 |
| Pioneer----- | 3040 | 119 | 1.6 | 1.8 | 1.0 | 2.4 | 82.8 | 1.3 | 77 |
| Funk's----- | G-4949A | 117 | 0.6 | 2.0 | 1.1 | 2.7 | 81.5 | 1.3 | 83 |
| Coker----- | 16 | 115 | 2.0 | 2.3 | 1.0 | 2.4 | 86.1 | 2.5 | 77 |
| DeKalb----- | XL80 | 114 | 2.9 | 2.3 | 1.0 | 2.3 | 83.4 | 1.8 | 77 |
| Pioneer----- | 3369A | 114 | 2.8 | 2.5 | 1.1 | 2.4 | 85.7 | 3.3 | 77 |
| Pioneer----- | 3145 | 111 | 0.9 | 2.3 | 1.0 | 2.4 | 81.5 | 1.8 | 77 |
| Funk's----- | G-4611 | 107 | 2.2 | 2.5 | 1.0 | 2.4 | 85.8 | 3.0 | 79 |
| Funk's----- | G-4810 | 104 | 7.3 | 2.5 | 1.0 | 2.4 | 82.0 | 2.3 | 78 |
| Ring Around----- | 1501 | 101 | 2.2 | 2.3 | 1.0 | 2.5 | 84.6 | 3.3 | 77 |
| Funk's----- | G-4864 | 98 | 2.1 | 2.3 | 1.0 | 2.6 | 83.6 | 1.8 | 81 |
| Test average: | | 128 | | | | | | | |
| L.S.D. (.05): | | 12 | | | | | | | |
| C.V. (%): | | 8.1 | | | | | | | |

^{1/} The test received approximately eight inches of irrigation water in six applications during the month of June.

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

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

Table 17. Characteristics of Corn Hybrids Tested Three Years at Marion Junction, 1979-81 (Continued)

| Brand name | Hybrid | Yield | | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} |
|---------------------|----------|------------------------|-----|---------------|-----------------------|----------------|----------------|----------|--------------------|
| | | per acre ^{1/} | Bu. | | | | | | |
| Ring Around ----- | 1502 | 89 | | 6.5 | 1.5 | 0.9 | 2.9 | 82.4 | 2.1 |
| Pioneer ----- | 3369A | 88 | | 14.0 | 2.3 | 0.9 | 2.9 | 81.5 | 3.3 |
| Pioneer ----- | 3145 | 88 | | 4.6 | 2.6 | 0.9 | 3.1 | 77.9 | 1.7 |
| Northrup King ----- | PX723 | 82 | | 6.2 | 1.7 | 0.9 | 3.2 | 81.6 | 2.3 |
| Funk's ----- | G-4810 | 80 | | 3.4 | 1.8 | 0.8 | 3.0 | 79.8 | 2.2 |
| Funk's ----- | G-4606-1 | 79 | | 8.1 | 2.0 | 0.9 | 2.7 | 82.0 | 3.6 |
| Funk's ----- | G-4507A | 79 | | 4.7 | 2.3 | 0.9 | 3.0 | 84.2 | 2.6 |
| Funk's ----- | G-4611 | 79 | | 9.6 | 1.8 | 0.9 | 3.0 | 80.5 | 2.3 |
| Funk's ----- | G-795W-1 | 79 | | 13.0 | 2.2 | 0.8 | 3.3 | 79.0 | 1.5 |
| Trojan ----- | TXS114 | 77 | | 13.1 | 2.2 | 0.8 | 2.9 | 78.9 | 2.7 |
| Pioneer ----- | 3147 | 77 | | 8.2 | 1.8 | 0.8 | 3.0 | 79.9 | 2.7 |
| Ring Around ----- | 1501 | 76 | | 4.9 | 2.0 | 0.9 | 3.0 | 83.7 | 2.7 |
| Trojan ----- | TXS119A | 76 | | 5.8 | 2.3 | 0.9 | 2.9 | 80.1 | 2.6 |
| Coker ----- | 56 | 75 | | 6.3 | 1.8 | 0.9 | 3.3 | 80.4 | 2.7 |
| Coker ----- | 22 | 75 | | 3.6 | 1.8 | 0.9 | 2.9 | 80.8 | 2.7 |
| McCurdy ----- | 67-14 | 75 | | 10.0 | 1.6 | 0.8 | 3.0 | 79.2 | 1.6 |
| Funk's ----- | G-4864 | 75 | | 6.4 | 1.8 | 0.9 | 3.3 | 80.8 | 1.8 |
| Coker ----- | 77B | 74 | | 13.4 | 2.0 | 0.9 | 3.5 | 80.4 | 2.4 |
| Pioneer ----- | 3368A | 73 | | 8.7 | 2.0 | 0.9 | 2.9 | 81.8 | 3.1 |
| DeKalb ----- | XL394 | 71 | | 9.3 | 2.1 | 0.9 | 3.4 | 81.1 | 1.4 |
| Trojan ----- | TXS119 | 66 | | 7.8 | 2.0 | 0.9 | 2.6 | 82.1 | 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 18 . Characteristics of Corn Hybrids Tested Two Years at Marion Junction, 1980-81

| Brand name | Hybrid | Yield | Lodged | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} |
|----------------------|----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{1/} | stalks | Rating | per stalk | of ears | | Rating |
| | | Bu. | Pct. | | No. | Ft. | Pct. | |
| Funk's ----- | G-4740 | 93 | 3.3 | 2.1 | 0.9 | 2.4 | 82.1 | 3.9 |
| Pioneer ----- | 3160 | 92 | 0.2 | 1.8 | 0.9 | 2.8 | 77.4 | 1.9 |
| Pioneer ----- | 3147 | 91 | 11.4 | 2.0 | 0.8 | 3.0 | 80.3 | 3.0 |
| McCurdy ----- | 7978 | 87 | 4.3 | 1.5 | 0.9 | 3.0 | 81.9 | 2.0 |
| Pioneer ----- | 3179 | 86 | 20.9 | 1.6 | 0.9 | 3.0 | 80.2 | 2.4 |
| Ring Around ----- | 1502 | 84 | 2.1 | 1.5 | 0.9 | 2.7 | 81.8 | 2.1 |
| Golden Harvest ----- | H-2660W | 84 | 7.8 | 1.8 | 0.8 | 3.2 | 73.4 | 1.3 |
| Northrup King ----- | PX723 | 83 | 7.9 | 1.5 | 0.9 | 3.1 | 81.0 | 2.4 |
| Funk's ----- | G-4507A | 81 | 5.0 | 1.9 | 0.9 | 2.8 | 82.7 | 2.9 |
| DeKalb ----- | XL394 | 80 | 12.7 | 1.6 | 0.9 | 3.3 | 80.6 | 1.6 |
| McCurdy ----- | 67-14 | 80 | 13.8 | 1.5 | 0.8 | 2.9 | 78.7 | 1.8 |
| DeKalb ----- | XL72BB | 80 | 3.4 | 2.1 | 0.9 | 2.5 | 82.4 | 4.3 |
| Pioneer ----- | 3369A | 79 | 15.7 | 2.1 | 0.9 | 2.6 | 80.8 | 3.4 |
| Trojan ----- | TXS114 | 78 | 3.3 | 2.0 | 0.8 | 2.7 | 81.3 | 2.8 |
| DeKalb ----- | XL72B | 78 | 3.8 | 1.8 | 0.9 | 2.4 | 82.1 | 3.0 |
| Trojan ----- | TXS119A | 78 | 6.9 | 2.0 | 0.9 | 2.7 | 79.2 | 2.9 |
| Pioneer ----- | 3145 | 77 | 5.9 | 1.8 | 0.9 | 2.9 | 76.1 | 1.8 |
| Funk's ----- | G-795W-1 | 77 | 9.5 | 2.1 | 0.8 | 3.0 | 78.2 | 1.6 |
| Funk's ----- | G-4810 | 74 | 4.2 | 1.8 | 0.8 | 2.8 | 78.3 | 2.1 |
| Funk's ----- | G-4611 | 73 | 12.0 | 2.1 | 0.8 | 2.7 | 80.6 | 2.5 |
| Funk's ----- | G-4606-1 | 73 | 8.0 | 1.9 | 0.8 | 2.5 | 81.2 | 3.9 |
| Pioneer ----- | 3368A | 71 | 10.0 | 2.4 | 0.9 | 2.7 | 81.4 | 3.4 |
| Funk's ----- | G-4848-2 | 71 | 5.9 | 2.4 | 0.8 | 2.7 | 74.0 | 2.4 |
| Coker ----- | 22 | 71 | 3.8 | 2.1 | 0.9 | 2.6 | 79.7 | 3.0 |
| Ring Around ----- | 1501 | 71 | 5.6 | 2.3 | 0.8 | 2.8 | 82.5 | 2.6 |
| Coker ----- | 56 | 70 | 6.5 | 1.5 | 0.9 | 3.1 | 79.1 | 3.0 |

continued

Table 18. Characteristics of Corn Hybrids Tested Two Years at Marion Junction, 1980-81 (Continued)

| Brand name | Hybrid | Yield | Lodged | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} |
|-----------------|--------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{1/} | stalks | Rating | per stalk | of ears | | Pct. |
| | | Bu. | Pct. | | No. | Ft. | | |
| Funk's ----- | G-4864 | 67 | 8.2 | 2.1 | 0.8 | 3.1 | 79.3 | 1.9 |
| Trojan ----- | TXS119 | 65 | 4.0 | 2.0 | 0.8 | 2.5 | 81.6 | 3.3 |
| Gold Kist ----- | GK955 | 64 | 11.3 | 2.0 | 0.8 | 2.7 | 78.1 | 3.1 |
| Coker ----- | 77B | 63 | 11.1 | 2.1 | 0.8 | 3.3 | 77.4 | 2.8 |

^{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 19. Characteristics of Corn Hybrids Tested One Year at Marion Junction, 1981

| Brand name | Hybrid | Yield | Lodged | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} | Mid- |
|----------------|-----------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{1/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| Northrup King | PX95 | 139 | 1.4 | 1.3 | 1.1 | 3.4 | 84.3 | 2.5 | 80 |
| Cargill | 951 | 138 | 5.9 | 1.5 | 0.9 | 3.0 | 83.0 | 4.3 | 82 |
| Golden Harvest | H-2660W | 138 | 4.5 | 1.0 | 1.0 | 3.7 | 74.6 | 1.5 | 84 |
| Pioneer | 3147 | 133 | 15.3 | 1.5 | 1.0 | 3.4 | 81.2 | 3.8 | 84 |
| Funk's | G-4740 | 131 | 5.2 | 1.8 | 1.0 | 2.7 | 81.4 | 4.5 | 85 |
| Funk's | G-4733 | 128 | 0.0 | 1.5 | 1.0 | 3.1 | 81.1 | 3.0 | 82 |
| Paymaster | UC9797 | 124 | 3.2 | 1.3 | 1.0 | 2.9 | 82.8 | 1.8 | 83 |
| Funk's | G-4810 | 124 | 5.7 | 1.0 | 1.0 | 3.1 | 79.5 | 2.3 | 82 |
| Ring Around | 1502 | 124 | 1.7 | 1.3 | 1.0 | 2.9 | 82.4 | 2.8 | 79 |
| Pioneer | 3179 | 123 | 23.3 | 1.0 | 1.0 | 3.2 | 81.2 | 2.5 | 82 |
| McCurdy | 67-14 | 123 | 18.8 | 1.0 | 1.0 | 3.1 | 79.2 | 2.3 | 84 |
| Pioneer | 3369A | 122 | 21.6 | 1.5 | 1.0 | 2.9 | 82.0 | 3.8 | 78 |
| Pioneer | 3160 | 122 | -0.4 | 1.3 | 1.0 | 3.0 | 77.9 | 2.3 | 80 |
| Gutwein | MDM2885 | 121 | 3.3 | 1.0 | 1.0 | 3.0 | 82.4 | 1.8 | 81 |
| Trojan | TXS114 | 120 | 0.4 | 1.5 | 0.9 | 2.9 | 81.9 | 3.3 | 81 |
| Paymaster | UC9532 | 119 | 2.2 | 1.8 | 1.0 | 3.1 | 81.2 | 1.8 | 83 |
| DeKalb | XL394 | 119 | 8.5 | 1.5 | 1.1 | 3.7 | 80.8 | 2.3 | 85 |
| Funk's | G-4747W-1 | 119 | 1.8 | 1.3 | 0.9 | 3.4 | 73.4 | 1.0 | 84 |
| McCurdy | 7978 | 117 | 3.5 | 1.0 | 1.0 | 3.2 | 82.0 | 1.8 | 81 |
| DeKalb | XL72B | 116 | 2.9 | 1.3 | 1.0 | 2.7 | 82.6 | 3.8 | 82 |
| DeKalb | XL72BB | 116 | 2.3 | 1.8 | 1.1 | 2.7 | 82.6 | 4.8 | 83 |
| McCurdy | 8225 | 116 | 13.3 | 1.0 | 1.1 | 3.4 | 83.5 | 1.0 | 82 |
| Funk's | G-4507A | 116 | 4.2 | 1.3 | 1.0 | 3.0 | 83.0 | 3.5 | 80 |
| Pioneer | 3145 | 115 | 1.7 | 1.8 | 1.0 | 3.1 | 76.5 | 1.5 | 82 |
| Trojan | T1230 | 115 | 1.3 | 1.5 | 0.9 | 3.1 | 82.8 | 3.3 | 83 |
| Northrup King | PX723 | 115 | 4.1 | 1.3 | 1.0 | 3.4 | 81.0 | 2.8 | 83 |
| Trojan | TXS119A | 115 | 8.6 | 2.0 | 1.0 | 3.0 | 82.8 | 3.0 | 80 |
| Golden Harvest | H-2745 | 115 | 8.1 | 1.5 | 1.1 | 3.2 | 81.7 | 3.5 | 79 |

continued

Table 19. Characteristics of Corn Hybrids Tested One Year at Marion Junction, 1981

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} | Mid-silk |
|---------------|----------|------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | per acre ^{1/} | | Rating | No. | Ft. | | Rating | |
| Coker | 56 | 113 | 7.4 | 1.0 | 1.0 | 3.3 | 80.1 | 3.8 | 86 |
| Funk's | G-795W-1 | 113 | 17.3 | 1.5 | 1.0 | 3.4 | 78.6 | 1.8 | 83 |
| Funk's | G-4606-1 | 111 | 4.1 | 1.5 | 0.9 | 2.6 | 81.9 | 4.8 | 80 |
| Funk's | G-4848-2 | 111 | 4.3 | 2.0 | 1.0 | 3.1 | 74.0 | 3.0 | 86 |
| Coker | 22 | 109 | 3.7 | 1.3 | 1.0 | 2.8 | 80.7 | 3.8 | 82 |
| Funk's | G-4611 | 107 | 11.2 | 1.8 | 0.9 | 3.1 | 81.4 | 2.5 | 81 |
| Pioneer | 3368A | 105 | 13.8 | 1.5 | 1.0 | 3.0 | 82.4 | 4.3 | 81 |
| Ring Around | 1501 | 105 | 3.7 | 1.5 | 1.0 | 3.1 | 82.6 | 2.8 | 83 |
| Coker | 77B | 103 | 17.8 | 1.8 | 1.2 | 3.5 | 78.2 | 3.3 | 85 |
| Funk's | G-4864 | 103 | 7.7 | 1.5 | 0.9 | 3.3 | 79.9 | 1.5 | 83 |
| Gold Kist | GK955 | 95 | 10.2 | 1.3 | 1.1 | 2.9 | 78.3 | 4.5 | 84 |
| Trojan | TXS119 | 92 | 5.9 | 2.0 | 0.9 | 2.7 | 82.5 | 3.8 | 81 |
| Test average: | | 117 | | | | | | | |
| L.S.D. (.05): | | 11 | | | | | | | |
| C.V. (%): | | 8.2 | | | | | | | |

^{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 20. Characteristics of White Corn Hybrids Tested Two Years at Crossville, 1980-81

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} |
|----------------------|--------------------|------------------------|---------------|-----------------------|-----------|---------|----------|--------------------|
| | | per acre ^{1/} | | Rating | per stalk | of ears | | Rating |
| | | Bu. | Pct. | | No. | Ft. | Pct. | |
| Ring Around ----- | 1502 ^{3/} | 79 | 3.9 | 2.3 | 0.9 | 3.2 | 83.9 | 2.1 |
| Pioneer ----- | 3147 ^{3/} | 74 | 5.0 | 2.5 | 0.8 | 3.3 | 81.8 | 2.3 |
| Funk's ----- | G-795W-1 | 62 | 8.6 | 2.9 | 0.7 | 3.5 | 81.0 | 2.4 |
| Ring Around ----- | 2602W | 55 | 6.1 | 3.0 | 0.7 | 3.6 | 71.9 | 2.1 |
| Pioneer ----- | 519 | 55 | 3.0 | 2.9 | 0.9 | 3.4 | 74.4 | 2.3 |
| Golden Harvest ----- | H-2660W | 53 | 3.9 | 3.0 | 0.7 | 3.5 | 74.3 | 2.1 |
| DeKalb ----- | XL390B | 52 | 4.8 | 3.0 | 0.7 | 3.6 | 82.7 | 2.3 |
| Ring Around ----- | 3605W | 50 | 5.7 | 3.0 | 0.7 | 3.4 | 74.9 | 2.5 |
| Jacques ----- | W-300 | 49 | 4.5 | 3.0 | 0.6 | 3.5 | 73.5 | 2.5 |
| Funk's ----- | G-4747W-1 | 49 | 2.3 | 3.0 | 0.7 | 3.4 | 72.6 | 2.3 |
| NK-McNair ----- | X-233 | 44 | 1.8 | 3.0 | 0.6 | 3.6 | 75.1 | 2.3 |

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

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

3/ Yellow corn check hybrids.

Table 21. Characteristics of White Corn Hybrids Tested at Crossville, 1981

| Brand name | Hybrid | Yield per acre ^{1/} | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} | Mid-silk |
|----------------|-------------------------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Ring Around | -----1502 ^{3/} | 91 | 4.5 | 2.0 | 0.9 | 3.5 | 84.3 | 2.3 | 71 |
| Pioneer | -----3147 ^{3/} | 85 | 1.4 | 2.0 | 0.9 | 3.7 | 85.8 | 2.5 | 79 |
| Funks's | -----G-795W-1 | 78 | 4.5 | 2.8 | 0.8 | 4.1 | 83.6 | 2.8 | 83 |
| Funk's | -----G-4768W | 75 | 2.3 | 3.0 | 0.9 | 3.9 | 83.2 | 2.5 | 79 |
| Ring Around | -----2602W | 70 | 3.2 | 3.0 | 0.8 | 4.2 | 74.0 | 2.3 | 78 |
| Jacques | -----W-200 | 66 | 17.3 | 3.0 | 0.9 | 3.8 | 78.4 | 2.8 | 71 |
| Golden Harvest | -----H-2660W | 66 | 2.7 | 3.0 | 0.8 | 4.2 | 76.9 | 2.3 | 78 |
| Ring Around | -----3605W | 62 | 2.7 | 3.0 | 0.7 | 4.0 | 79.1 | 2.8 | 80 |
| Jacques | -----W-300 | 61 | 1.8 | 3.0 | 0.8 | 4.1 | 76.3 | 3.0 | 78 |
| Funk's | -----G-4747W-1 | 59 | 1.4 | 3.0 | 0.7 | 3.8 | 76.4 | 2.3 | 80 |
| Pioneer | -----519 | 59 | 0.9 | 3.0 | 0.9 | 3.8 | 75.1 | 2.5 | 81 |
| DeKalb | -----XL390B | 53 | 1.8 | 3.0 | 0.7 | 4.3 | 81.7 | 2.3 | 80 |
| NK-McNair | -----X-233 | 52 | 1.4 | 3.0 | 0.6 | 4.2 | 78.8 | 2.5 | 82 |
| Test average: | | 68 | | | | | | | |
| L.S.D. (.05): | | 12 | | | | | | | |
| C.V. (%): | | 14.5 | | | | | | | |

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

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

^{3/} Yellow corn check hybrids.

Table 22. Characteristics of White Corn Hybrids Tested at the E. V. Smith Research Center, 1981

| Brand name | Hybrid | Yield per acre ^{1/} | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} | Mid-silk |
|----------------------|--------------------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Ring Around ----- | 1502 ^{3/} | 74 | 8.9 | 2.8 | 1.0 | 3.6 | 85.3 | 1.3 | 75 |
| Pioneer ----- | 3147 ^{3/} | 54 | 5.6 | 3.0 | 0.7 | 3.8 | 86.2 | 2.0 | 83 |
| NK-McNair ----- | X-233 | 48 | 6.6 | 2.5 | 0.7 | 4.2 | 80.6 | 1.0 | 84 |
| DeKalb ----- | XL390B | 47 | 12.6 | 3.0 | 0.7 | 4.2 | 84.0 | 2.0 | 79 |
| Jacques ----- | W-200 | 44 | 26.0 | 3.0 | 0.9 | 3.6 | 76.6 | 2.5 | 73 |
| Pioneer ----- | 519 | 44 | 8.3 | 2.5 | 0.8 | 4.1 | 78.0 | 1.3 | 87 |
| Golden Harvest ----- | H-2660W | 44 | 2.9 | 3.0 | 0.7 | 4.0 | 82.2 | 1.0 | 83 |
| Funk's ----- | G-795W-1 | 44 | 11.7 | 2.0 | 0.6 | 3.9 | 84.9 | 1.0 | 87 |
| Funk's ----- | G-4747W-1 | 40 | 6.6 | 3.3 | 0.8 | 3.7 | 79.2 | 1.8 | 84 |
| Ring Around ----- | 3605W | 37 | 4.3 | 3.3 | 0.6 | 4.0 | 80.5 | 1.3 | 82 |
| Ring Around ----- | 2602W | 35 | 9.6 | 2.5 | 0.6 | 4.0 | 77.4 | 1.0 | 83 |
| Jacques ----- | W-300 | 34 | 9.3 | 3.8 | 0.6 | 3.9 | 80.8 | 1.0 | 84 |
| Funk's ----- | G-4768W | 32 | 6.4 | 2.3 | 0.5 | 4.0 | 84.1 | 1.5 | 87 |
| Test Average: | | 45 | | | | | | | |
| L.S.D. (.05): | | 9 | | | | | | | |
| C.V. (%): | | 17.5 | | | | | | | |

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

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

^{3/} Yellow corn check hybrids.

Table 23. Characteristics of White Corn Hybrids Tested Under Irrigation Two Years at Headland, 1980-81^{1/}

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} |
|--------------------|--------------------|------------------------|---------------|-----------------------|----------------|----------------|-----------|--------------------|
| | | per acre ^{1/} | | Rating | No. | Ft. | Pct. | Rating |
| Ring Around ----- | 1502 ^{3/} | Bu. 157 | Pct. 2.3 | Rating 2.3 | No. 1.0 | Ft. 3.0 | Pct. 85.4 | Rating 2.3 |
| Pioneer ----- | 3147 ^{3/} | 151 | 2.9 | 3.1 | 1.0 | 3.1 | 85.1 | 2.4 |
| Funk's ----- | G-795W-1 | 145 | 10.9 | 2.4 | 1.1 | 3.0 | 82.3 | 2.1 |
| Ring Around ----- | 3605W | 142 | 5.0 | 2.3 | 1.0 | 3.2 | 81.3 | 2.3 |
| DeKalb ----- | XL390B | 137 | 6.0 | 3.4 | 1.0 | 3.1 | 85.9 | 2.3 |
| Pioneer ----- | 519 | 135 | 3.9 | 2.1 | 1.0 | 3.0 | 83.2 | 1.9 |
| Ring Around ----- | 2602W | 135 | 5.9 | 2.6 | 1.0 | 3.0 | 77.7 | 2.1 |
| NK-McNair ----- | X-233 | 133 | 3.1 | 2.5 | 1.0 | 3.1 | 77.6 | 2.1 |
| Funk's ----- | G-4747W-1 | 131 | 4.6 | 2.4 | 0.9 | 3.0 | 77.8 | 2.1 |
| Golden Harvest --- | H-2660W | 129 | 5.0 | 2.3 | 1.0 | 3.2 | 77.6 | 2.1 |
| Jacques ----- | W-300 | 122 | 5.5 | 2.8 | 1.0 | 3.1 | 77.1 | 1.9 |

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

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

^{3/} Yellow corn check hybrids.

Table 24. Characteristics of White Corn Hybrids Tested Under Irrigation at Headland, 1981^{1/}

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{3/} | Ears per stalk | Height of ears | Shelling | Husk ^{3/} | Mid-silk |
|-------------------|--------------------|-------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | per acre ^{2/} Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Ring Around----- | 1502 ^{4/} | 156 | 1.3 | 2.0 | 1.0 | 2.6 | 85.9 | 2.0 | 76 |
| DeKalb----- | XL390B | 146 | 6.6 | 2.8 | 1.0 | 2.7 | 86.0 | 1.8 | 77 |
| Pioneer ----- | 3147 ^{4/} | 143 | 1.5 | 3.0 | 1.0 | 2.7 | 84.4 | 2.8 | 81 |
| Funk's ----- | G-795W-1 | 140 | 10.0 | 2.5 | 1.1 | 2.6 | 82.7 | 1.8 | 79 |
| Ring Around ----- | 3605W | 137 | 2.9 | 2.0 | 1.0 | 2.9 | 81.1 | 2.0 | 78 |
| Jacques ----- | W-300 | 131 | 1.8 | 2.8 | 1.0 | 2.7 | 77.6 | 1.5 | 78 |
| Pioneer ----- | 519 | 131 | 2.6 | 2.3 | 1.0 | 2.7 | 83.8 | 1.5 | 79 |
| NK-McNair----- | X-233 | 129 | 1.4 | 2.5 | 0.9 | 2.7 | 77.4 | 1.8 | 81 |
| Funk's----- | G-4768W | 128 | 5.3 | 2.0 | 1.0 | 2.9 | 81.3 | 1.8 | 79 |
| Funk's ----- | G-4747W-1 | 127 | 6.5 | 2.3 | 1.0 | 2.6 | 77.6 | 2.0 | 80 |
| Ring Around ----- | 2602W | 127 | 3.7 | 2.8 | 1.0 | 2.7 | 77.9 | 1.8 | 78 |
| Golden Harvest -- | H-2660W | 126 | 2.4 | 2.3 | 1.0 | 2.8 | 77.1 | 2.3 | 77 |
| Jacques ----- | W-200 | 93 | 2.3 | 4.0 | 1.1 | 2.8 | 77.2 | 2.5 | 76 |
| Test average: | | 132 | | | | | | | |
| L.S.D. (.05): | | 12 | | | | | | | |
| C.V. (%): | | 7.7 | | | | | | | |

^{1/} The test received approximately eight inches of irrigation water in six applications during the month of June.

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

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

^{4/} Yellow corn check hybrids

Viral Disease Reactions of Some Hybrids in 1981

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The two most prevalent viral diseases of corn in Alabama are maize chlorotic dwarf (MCD) caused by the maize chlorotic dwarf virus (MCDV), and maize dwarf mosaic (MDM) caused by the maize dwarf virus (MDMV). Discovery of MDM in the State dates back to the early 1960's, while MCD has been recognized only since 1973. Both diseases probably occur throughout Alabama; however, they generally have been more prevalent and damaging in the northern two-thirds of the State.

Symptoms of the two diseases are similar in appearance and sometimes difficult to distinguish. Generally, affected plants are chlorotic or discolored and may be stunted. Leaves of MDM-diseased plants show an irregular, light and dark green mosaic or mottle; the initial symptom of MCD is a fine, chlorotic streaking over the smallest veins.

The casual viruses are spread by feeding activities of insects. MCDV is transmitted by certain leafhoppers and MDMV is carried by some aphids. Both viruses have similar host ranges among a variety of wild and cultivated grasses. Johnsongrass is an important overseason or reservoir host for the viruses, and MCD and MDM incidence and damage usually are high in corn fields that are heavily infested with johnsongrass.

Use of resistant or tolerant corn hybrids and the control or avoidance of johnsongrass infested areas are the most practical controls of MCD and MDM. Commercial and experimental hybrids are evaluated yearly to identify resistant hybrids or promising sources of resistance to the diseases. Results of evaluations of some commercial hybrids during 1981 are summarized in this report.

PROCEDURE

Viral disease ratings were made on entries in the corn hybrid test at the Black Belt Substation, Marion Junction, the Tennessee Valley Substation, Belle Mina, and the Upper Coastal Plain Substation at Winfield. Plants showing symptoms of MCD and/or MDM were counted and data are reported as percent incidence of viral diseases for each hybrid.

RESULTS

The incidence of MCD was unusually low in corn throughout Alabama in 1981, while MDM reached usual or higher-than-usual levels in most areas where it normally occurs.

At the Black Belt Substation (table 25), incidence of MDM ranged from 0-73% among hybrids and averaged 16% for the entire test, as compared to a range of 0-13% and an overall average of 2.3% for MCD. None of the hybrids appeared immune to both diseases; however, several showed a very low incidence of either disease, e.g. Cargill 951, DeKalb XL72B, DeKalb XL394, Funk's G-4740, Golden Harvest H-2745, Golden Harvest H-2660W, Gutwein MDM 2885, McCurdy 7878, McCurdy 8225, Northrup King PX95, Paymaster UC9532, Pioneer 3145, and Pioneer 3147.

Incidence of MDM and MCD was insignificant at the Tennessee Valley Substation.

In the test at the Upper Coastal Plain Substation (table 26), incidence of MDM ranged from 0-30% and averaged 6.7% overall; that for MCD ranged from 0-11% and averaged 2.5%. No symptoms of MDM or MCD were found in DeKalb XL394, Funk's G-4810, and Gutwein 62, and incidence of either disease was less than 5% in several other hybrids.

Hybrids showing relatively greater resistance or tolerance were apparent. Under conditions of higher or lower incidence of viral disease hybrids would be expected to retain their relative ranking. When selecting a hybrid, viral disease reactions should be taken into account for areas where the

diseases occur, along with consideration of yield and other characteristics given elsewhere in this report.

Table 25: Incidence of viral diseases in the regular corn hybrid test; Black Belt Substation, July 1, 1981

| Brand name/hybrid | Incidence (%) | |
|-------------------------|-----------------------|--------------------|
| | Maize chlorotic dwarf | Maize dwarf mosaic |
| Cargill 951 | 0 | 1.8 |
| Coker 22 | 10.7 | 46.0 |
| Coker 56 | 5.2 | 22.1 |
| Coker 77B | 2.7 | 36.2 |
| Dekalb XL72B | 0 | 4.1 |
| Dekalb XL72BB | 0 | 10.2 |
| Dekalb XL 394 | 0 | 2.5 |
| Funk's G-4864 | 4.0 | 31.0 |
| Funk's G-795 W-1 | 2.5 | 28.7 |
| Funk's G-4611 | 2.5 | 24.6 |
| Funk's G-4810 | 3.7 | 8.4 |
| Funk's G-4606-1 | 1.0 | 27.8 |
| Funk's G-4507A | 13.1 | 33.3 |
| Funk's G-4740 | 1.0 | 1.0 |
| Funk's G-4848-2 | 1.0 | 10.8 |
| Funk's G-4733 | 2.6 | 9.6 |
| Funk's G-4747 W-1 | 1.7 | 11.2 |
| Golden Harvest H-2745 | 1.9 | 0 |
| Golden Harvest H-2660-W | 0 | 1.8 |
| Gold Kist GK-955 | 6.6 | 9.9 |
| Gutwein MDM 2885 | 0 | 3.3 |
| McCurdy 7978 | 1.8 | 4.4 |
| McCurdy 8225 | 1.0 | 0 |
| McCurdy 67-14 | 1.8 | 13.9 |
| North King PX 95 | 0 | 3.7 |
| North King PX 723 | 2.7 | 7.1 |
| Paymaster UC 9532 | 1.8 | 3.8 |
| Paymaster UC 9797 | 0 | 6.2 |
| Pioneer 3145 | 1.6 | 1.6 |
| Pioneer 3147 | 0 | 4.4 |
| Pioneer 3160 | 0 | 6.8 |
| Pioneer 3179 | 2.7 | 12.7 |
| Pioneer 3368A | 0 | 73.3 |
| Pioneer 3369A | 5.3 | 23.9 |
| Ring Around 1501 | 2.8 | 19.0 |
| Ring Around 1502 | 1.0 | 23.7 |
| Trojan T 1230 | 1.7 | 23.5 |
| Trojan TXS 114 | 3.5 | 19.1 |
| Trojan TXS 119 | 4.5 | 48.2 |
| Trojan TXS 119A | 1.9 | 25.7 |

Table 26. Incidence of viral diseases in the regular corn hybrid test;
Upper Coastal Plain Substation, July 17, 1981

| Brand name/hybrid | Incidence (%) | |
|-----------------------|-----------------------|--------------------|
| | Maize chlorotic dwarf | Maize dwarf mosaic |
| Big D 4862 | 0 | 16.7 |
| Coker 16 | 1.7 | 10.3 |
| Coker 19 | 6.7 | 18.3 |
| Coker 19A | 3.2 | 3.2 |
| Coker 22 | 6.6 | 9.8 |
| Coker 56 | 1.8 | 3.6 |
| Dekalb XL 72B | 3.6 | 1.8 |
| Dekalb XL 72BB | 0 | 3.3 |
| Dekalb XL 394 | 0 | 0 |
| Funk's G-4507 | 1.6 | 6.3 |
| Funk's G-4606-1 | 0 | 3.7 |
| Funk's G-4611 | 6.5 | 8.1 |
| Funk's G-4740 | 0 | 1.7 |
| Funk's G-4810 | 0 | 0 |
| Funk's G-795 W-1 | 11.3 | 22.6 |
| Golden Harvest H-2680 | 7.7 | 23.1 |
| Gold Kist GK-748 | 1.6 | 8.1 |
| Gutwein 62 | 0 | 0 |
| Gutwein 2910 | 1.8 | 1.8 |
| Jacques JX180 | 1.7 | 11.7 |
| McCurdy 7978 | 0 | 1.7 |
| McCurdy 84AA | 0 | 3.1 |
| McCurdy 7787 | 0 | 3.6 |
| McCurdy 67-14 | 6.5 | 16.1 |
| P-A-G SX333 | 1.5 | 1.5 |
| Paymaster UC 8201 | 0 | 5.0 |
| Paymaster UC 8951 | 1.4 | 4.3 |
| Paymaster UC 9532 | 0 | 1.6 |
| Pioneer 3147 | 8.1 | 1.6 |
| Pioneer 3160 | 0 | 1.5 |
| Pioneer 3184 | 0 | 5.9 |
| Pioneer 3320 | 10.0 | 6.7 |
| Pioneer 3369A | 1.8 | 7.3 |
| Ring Around 1501 | 0 | 1.8 |
| Ring Around 1502 | 1.8 | 3.5 |
| Ring Around 1504 | 0 | 4.9 |
| Trojan TXS 114 | 7.0 | 1.8 |
| Trojan TXS 115A | 3.5 | 7.0 |
| Trojan TXS 119 | 3.4 | 30.5 |
| USS 1515 | 0 | 3.1 |

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Table 27. Characteristics of Corn Hybrids Tested One Year at Crossville in Northern Alabama, 1981

| Brand name | Hybrid | Yield | Lodged | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} | Mid- |
|----------------------|---------------------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|--------|
| | | per acre ^{1/} | stalks | Rating | per stalk | of ears | | Pct. | Rating |
| | | Bu. | Pct. | | No. | Ft. | | | Days |
| Cargill ----- | 967 | 112 | 0.9 | 2.8 | 1.0 | 4.3 | 86.0 | 2.8 | 73 |
| Funk's ----- | G-4733 | 111 | 0.0 | 2.5 | 1.0 | 4.3 | 85.7 | 2.5 | 76 |
| Pioneer ----- | 3368A | 110 | 4.5 | 2.0 | 1.0 | 4.1 | 84.9 | 2.5 | 75 |
| McCurdy ----- | 8150 | 110 | 0.9 | 2.0 | 1.0 | 4.6 | 86.1 | 2.0 | 76 |
| Pioneer ----- | 3147 ^{3/} | 110 | 3.2 | 2.0 | 1.0 | 4.5 | 81.7 | 2.3 | 80 |
| Paymaster ----- | UC9797 | 109 | 7.7 | 2.3 | 1.1 | 4.2 | 85.7 | 2.3 | 80 |
| Paymaster ----- | UC7251 | 109 | 1.8 | 2.0 | 1.0 | 4.2 | 83.7 | 3.0 | 72 |
| Pioneer ----- | 3369A ^{3/} | 109 | 5.5 | 2.3 | 1.0 | 3.9 | 86.0 | 2.5 | 71 |
| Gutwein ----- | 2875 | 109 | 8.2 | 2.3 | 1.0 | 4.0 | 85.5 | 2.0 | 77 |
| USS ----- | 1010 | 109 | 2.3 | 2.5 | 1.0 | 4.1 | 85.5 | 2.3 | 72 |
| P-A-G ----- | SX351 | 108 | 1.4 | 2.5 | 1.0 | 4.2 | 87.6 | 2.8 | 73 |
| Big D ----- | 7220 | 108 | 0.5 | 2.3 | 0.9 | 4.4 | 81.7 | 2.3 | 80 |
| Pioneer ----- | 3186 | 107 | 2.7 | 2.0 | 1.0 | 4.4 | 85.0 | 2.0 | 80 |
| Cargill ----- | 949 | 106 | 4.5 | 2.3 | 1.0 | 4.1 | 86.0 | 2.8 | 72 |
| DeKalb ----- | X182 | 106 | 3.6 | 2.3 | 1.0 | 4.3 | 83.9 | 2.5 | 77 |
| Trojan ----- | T1230 | 105 | 2.3 | 2.3 | 1.0 | 4.3 | 84.3 | 2.3 | 77 |
| Funk's ----- | G-4522 | 104 | 6.4 | 2.0 | 1.0 | 4.2 | 84.4 | 2.8 | 72 |
| P-A-G ----- | SX373 | 104 | 6.4 | 2.3 | 1.0 | 4.4 | 87.4 | 2.3 | 76 |
| Cargill ----- | 495 | 104 | 3.6 | 2.5 | 0.9 | 4.1 | 85.4 | 2.5 | 73 |
| Gold Kist ----- | GK915 | 104 | 4.1 | 2.0 | 0.9 | 4.2 | 83.7 | 2.3 | 75 |
| Gold Kist ----- | GK748 | 103 | 2.3 | 2.0 | 1.0 | 4.1 | 86.7 | 2.0 | 75 |
| Jacques ----- | JX179 | 103 | 9.1 | 2.3 | 1.0 | 4.0 | 82.5 | 2.8 | 71 |
| Big D ----- | 6986 | 103 | 4.1 | 2.0 | 1.0 | 4.2 | 87.3 | 2.3 | 80 |
| Funk's ----- | G-4689 | 102 | 10.5 | 2.0 | 0.9 | 4.0 | 86.8 | 2.0 | 74 |
| Pioneer ----- | 3572 | 101 | 5.0 | 2.0 | 1.0 | 3.9 | 84.9 | 3.0 | 71 |
| Jacques ----- | JX247 | 101 | 5.0 | 2.8 | 1.0 | 4.0 | 87.0 | 2.3 | 80 |
| Trojan ----- | TXS119A | 100 | 1.8 | 2.3 | 1.0 | 4.1 | 84.5 | 2.8 | 72 |
| Golden Harvest ----- | H-2745 | 98 | 5.5 | 2.5 | 1.0 | 4.0 | 83.8 | 2.3 | 74 |
| Northrup King ----- | PX95 | 98 | 1.4 | 2.8 | 1.0 | 4.5 | 81.0 | 2.0 | 77 |
| Northrup King ----- | PX87 | 97 | 5.9 | 2.5 | 1.0 | 4.3 | 86.2 | 2.3 | 80 |

continued

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Table 27. Characteristics of Corn Hybrids Tested One Year at Crossville in Northern Alabama, 1981 (Cont'd)

| Brand name | Hybrid | Yield per acre ^{1/} | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} | Mid-silk |
|----------------------|---------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Ring Around----- | 1401 | 97 | 0.5 | 2.0 | 1.0 | 3.8 | 84.9 | 2.5 | 72 |
| Golden Harvest ----- | H-2686 | 97 | 14.5 | 2.0 | 1.0 | 4.4 | 83.2 | 2.8 | 77 |
| Ring Around ----- | 1604 | 97 | 6.8 | 2.3 | 1.0 | 4.0 | 85.2 | 2.0 | 80 |
| Coker ----- | 21 | 96 | 8.6 | 2.3 | 0.9 | 4.2 | 85.3 | 2.5 | 79 |
| Big D ----- | 2249 | 96 | 8.2 | 2.5 | 0.9 | 3.8 | 86.3 | 2.8 | 71 |
| Golden Harvest----- | H-2775A | 96 | 6.4 | 2.3 | 0.9 | 4.1 | 84.1 | 2.3 | 77 |
| Northrup King ----- | PX79 | 96 | 4.1 | 2.0 | 1.0 | 4.3 | 87.1 | 2.5 | 75 |
| Ring Around ----- | 1504 | 94 | 1.4 | 2.5 | 1.0 | 4.2 | 84.1 | 2.5 | 77 |
| Gold Kist ----- | GK695 | 93 | 0.5 | 2.3 | 0.9 | 3.7 | 87.1 | 3.0 | 72 |
| Funk's ----- | 29258 | 92 | 5.5 | 2.3 | 1.0 | 4.1 | 83.9 | 2.3 | 80 |
| Test average: | | 103 | | | | | | | |
| L.S.D. (.05): | | 10 | | | | | | | |
| C.V. (%): | | 7.9 | | | | | | | |

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

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

^{3/} Check hybrid.

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Table 28 . Characteristics of Corn Hybrids Tested One Year at the E. V. Smith Research Center in Central Alabama, 198

| Brand name | Hybrid | Yield per acre ^{1/} | Lodged stalks | Quality ^{2/} | Ears per stalk | Height of ears | Shelling | Husk ^{2/} | Mid-silk |
|----------------|---------------------|------------------------------|---------------|-----------------------|----------------|----------------|----------|--------------------|----------|
| | | Bu. | Pct. | Rating | No. | Ft. | Pct. | Rating | Days |
| Trojan | TXS115A | 99 | 3.6 | 3.3 | 1.0 | 3.4 | 85.2 | 3.5 | 75 |
| Funk's | G-4522 | 97 | 15.2 | 1.5 | 1.0 | 3.4 | 92.9 | 3.0 | 75 |
| Coker | 19A | 94 | 6.7 | 3.0 | 0.9 | 3.5 | 84.5 | 3.3 | 76 |
| Northrup King | PX74 | 91 | 11.6 | 3.0 | 1.0 | 3.3 | 83.2 | 2.3 | 75 |
| Paymaster | UC9532 | 90 | 5.7 | 1.5 | 0.9 | 3.6 | 84.3 | 1.8 | 82 |
| McCurdy | 8230 | 89 | 4.7 | 1.3 | 1.0 | 3.2 | 81.9 | 1.8 | 78 |
| N. K. McNair | X300 | 87 | 6.0 | 2.8 | 1.0 | 3.7 | 81.2 | 2.0 | 77 |
| Gold Kist | GK748 | 86 | 6.5 | 3.0 | 1.0 | 3.3 | 83.7 | 2.5 | 77 |
| Trojan | TXS119A | 85 | 12.4 | 1.8 | 1.0 | 3.3 | 83.1 | 3.5 | 73 |
| Jacques | JX179 | 84 | 10.9 | 3.5 | 0.9 | 3.3 | 79.9 | 4.0 | 73 |
| Coker | 21 | 83 | 4.1 | 2.0 | 1.0 | 3.9 | 83.3 | 4.0 | 79 |
| Gold Kist | GK925 | 83 | 6.6 | 2.3 | 1.0 | 3.6 | 82.7 | 2.3 | 80 |
| Pioneer | 3369A ^{3/} | 82 | 8.0 | 1.5 | 1.0 | 3.0 | 83.6 | 2.8 | 70 |
| Gutwein | 2875 | 82 | 4.7 | 2.5 | 0.9 | 3.5 | 83.7 | 1.5 | 78 |
| Gold Kist | GK695 | 81 | 12.9 | 3.0 | 0.9 | 3.0 | 84.5 | 4.0 | 75 |
| Golden Harvest | H-2775A | 81 | 5.6 | 2.5 | 1.0 | 3.3 | 83.9 | 2.8 | 76 |
| Paymaster | UC8951 | 81 | 9.4 | 2.5 | 0.9 | 3.6 | 82.9 | 2.0 | 75 |
| Pioneer | 3184 | 80 | 0.7 | 2.0 | 1.0 | 2.9 | 80.1 | 3.0 | 77 |
| USS | 1516 | 80 | 7.4 | 2.5 | 1.0 | 3.1 | 83.3 | 4.3 | 76 |
| Big D | 2249 | 80 | 13.5 | 2.8 | 0.9 | 3.4 | 81.5 | 3.3 | 73 |
| Paymaster | UC9797 | 79 | 7.0 | 1.8 | 0.9 | 3.4 | 84.2 | 1.0 | 81 |
| Big D | 6986 | 79 | 9.2 | 2.8 | 0.9 | 3.4 | 82.9 | 2.5 | 77 |
| Golden Harvest | H-2680 | 78 | 2.4 | 1.8 | 0.9 | 3.4 | 82.5 | 2.8 | 78 |
| Pioneer | 3147 ^{3/} | 77 | 4.8 | 2.0 | 1.0 | 3.6 | 82.3 | 2.5 | 81 |
| DeKalb | XL71 | 76 | 0.7 | 2.5 | 1.0 | 3.5 | 82.5 | 3.5 | 73 |
| Northrup King | PX79 | 75 | 1.0 | 3.0 | 0.9 | 3.6 | 83.7 | 2.8 | 78 |
| Ring Around | 1401 | 75 | 6.3 | 2.8 | 1.0 | 3.1 | 81.9 | 2.8 | 71 |
| Golden Harvest | H-2686 | 74 | 5.4 | 2.0 | 0.9 | 3.9 | 81.8 | 3.0 | 78 |

continued

Table 28. Characteristics of Corn Hybrids Tested One Year at the E. V. Smith Research Center in Central Alabama, 1981

| Brand name | Hybrid | Yield per acre ^{1/} Bu. | Lodged stalks Pct. | Quality ^{2/} Rating | Ears per stalk No. | Height of ears Ft. | Shelling Pct. | Husk ^{2/} Rating | Mid-silk Days |
|---------------------|-------------|-------------------------------------|-----------------------|---------------------------------|-----------------------|-----------------------|------------------|------------------------------|------------------|
| Funk's ----- | 29258 | 74 | 4.6 | 2.0 | 1.0 | 3.5 | 83.9 | 1.0 | 79 |
| Northrup King ----- | PX87 | 72 | 5.5 | 2.5 | 0.9 | 3.6 | 82.7 | 2.3 | 79 |
| Funk's ----- | G-4733 | 70 | 0.0 | 2.5 | 0.9 | 3.7 | 82.9 | 2.5 | 81 |
| Pioneer ----- | 3186 | 69 | 1.4 | 1.8 | 0.9 | 3.9 | 82.1 | 1.8 | 82 |
| Funk's ----- | G-4848-2 | 68 | 5.0 | 2.8 | 0.9 | 3.5 | 80.0 | 1.3 | 82 |
| Trojan ----- | T1230 | 67 | 2.8 | 3.0 | 0.9 | 3.7 | 83.1 | 3.5 | 81 |
| Funk's ----- | G-4864 (HT) | 66 | 2.1 | 1.8 | 0.9 | 3.7 | 85.4 | 1.8 | 80 |
| Big D ----- | 7220 | 64 | 3.6 | 2.8 | 0.8 | 3.6 | 81.4 | 2.5 | 81 |
| Northrup King ----- | PX95 | 61 | 3.6 | 3.3 | 0.9 | 3.7 | 80.9 | 2.5 | 80 |
| DeKalb ----- | XL395A | 59 | 0.7 | 1.8 | 0.8 | 3.9 | 80.7 | 1.5 | 82 |
| Gold Kist ----- | GK1175 | 53 | 16.1 | 2.3 | 0.7 | 3.6 | 79.4 | 3.0 | 84 |
| DeKalb ----- | 1295 | 51 | 1.4 | 2.5 | 0.8 | 4.0 | 78.8 | 2.0 | 84 |

Test average: 78
L.S.D. (.05): 11
C.V. (%): 11.7

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

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

^{3/} Check hybrid.

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Table 29. Characteristics of Corn Hybrids Tested One Year at Fairhope in Southern Alabama, 1981

| Brand name | Hybrid | Yield | Lodged stalks | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} | Mid-silk |
|----------------|---------------------|------------------------|---------------|-----------------------|-----------|---------|----------|--------------------|----------|
| | | per acre ^{1/} | | Rating | per stalk | of ears | | Rating | Days |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | |
| Northrup King | PX87 | 150 | 2.5 | 1.3 | 1.0 | 3.8 | 84.8 | 2.3 | 66 |
| Coker | 21 | 149 | 1.7 | 2.0 | 1.0 | 3.7 | 84.8 | 2.5 | 67 |
| DeKalb | XL71 | 149 | 2.5 | 1.3 | 1.0 | 3.6 | 83.7 | 3.0 | 63 |
| USS | 2020 | 147 | 2.5 | 1.5 | 1.0 | 3.8 | 84.8 | 2.5 | 67 |
| Golden Harvest | H-2680 | 146 | 5.0 | 1.8 | 1.0 | 3.6 | 84.6 | 2.3 | 67 |
| Big D | 6986 | 144 | 6.1 | 2.0 | 1.0 | 3.7 | 84.1 | 2.3 | 65 |
| DeKalb | 1295 | 138 | 7.5 | 1.0 | 1.1 | 4.2 | 79.6 | 1.5 | 73 |
| DeKalb | XL395A | 138 | 1.7 | 1.0 | 0.9 | 4.0 | 79.2 | 1.5 | 72 |
| Cargill | 949 | 138 | 0.0 | 2.8 | 1.0 | 3.5 | 83.1 | 2.3 | 62 |
| P-A-G | SX373 | 137 | 0.8 | 2.3 | 1.0 | 3.6 | 83.5 | 2.0 | 66 |
| P-A-G | SX351 | 137 | 3.8 | 2.8 | 1.0 | 3.7 | 84.0 | 2.3 | 63 |
| Paymaster | 12052A | 137 | 0.8 | 1.0 | 1.0 | 3.7 | 76.7 | 1.0 | 72 |
| Pioneer | 3369A ^{3/} | 137 | 1.3 | 2.0 | 1.0 | 3.3 | 83.9 | 2.5 | 63 |
| Cargill | 967 | 137 | 6.7 | 2.5 | 1.0 | 3.7 | 84.5 | 2.8 | 63 |
| Trojan | TXS119 | 133 | 3.8 | 2.0 | 1.0 | 3.0 | 83.6 | 2.5 | 63 |
| Golden Harvest | H-2686 | 133 | 3.5 | 2.8 | 1.0 | 3.7 | 80.0 | 1.8 | 65 |
| Northrup King | PX79 | 131 | 1.3 | 2.8 | 1.0 | 3.5 | 84.4 | 2.3 | 65 |
| Northrup King | PX74 | 131 | 5.8 | 2.3 | 1.0 | 3.7 | 84.1 | 2.5 | 63 |
| Big D | 4862 | 130 | 2.1 | 3.3 | 1.0 | 3.6 | 83.4 | 2.3 | 64 |
| Gutwein | 2875 | 130 | 3.8 | 1.8 | 0.9 | 3.6 | 81.7 | 1.5 | 64 |
| Funk's | G-4733 | 129 | 2.5 | 1.5 | 1.0 | 3.4 | 81.2 | 2.3 | 66 |
| Jacques | JX179 | 129 | 2.1 | 2.8 | 1.0 | 3.3 | 82.7 | 2.8 | 62 |
| Big D | 7220 | 129 | 8.6 | 1.0 | 0.9 | 3.6 | 80.9 | 2.3 | 71 |
| Gutwein | MDM2885 | 128 | 2.5 | 2.0 | 1.0 | 3.5 | 82.0 | 1.5 | 64 |
| Funk's | G-4522 | 128 | 1.8 | 2.0 | 1.1 | 3.5 | 82.3 | 1.8 | 62 |
| Paymaster | 9532 | 127 | 4.2 | 1.5 | 1.0 | 3.6 | 83.1 | 1.5 | 68 |

continued

Table 29. Characteristics of Corn Hybrids Tested One Year at Fairhope in Southern Alabama, 1981 (Continued)

| Brand name | Hybrid | Yield | Lodged | Quality ^{2/} | Ears | Height | Shelling | Husk ^{2/} | Mid- |
|-------------------|--------------------|------------------------|--------|-----------------------|-----------|---------|----------|--------------------|------|
| | | per acre ^{1/} | stalks | Rating | per stalk | of ears | | Rating | silk |
| | | Bu. | Pct. | | No. | Ft. | Pct. | | Days |
| Funk's ----- | 29258 | 126 | 6.2 | 1.8 | 0.9 | 3.6 | 83.4 | 2.0 | 67 |
| Pioneer ----- | 3147 ^{3/} | 125 | 8.3 | 2.5 | 0.9 | 3.6 | 81.6 | 2.8 | 71 |
| Pioneer ----- | 3184 | 125 | 0.8 | 1.8 | 1.0 | 3.1 | 80.7 | 2.5 | 66 |
| Ring Around----- | 1504 | 123 | 2.2 | 3.0 | 1.0 | 3.6 | 82.7 | 3.0 | 62 |
| Trojan ----- | TXS119A | 120 | 6.6 | 2.8 | 0.9 | 3.5 | 83.7 | 2.0 | 64 |
| Gold Kist ----- | GK1175 | 120 | 2.5 | 1.5 | 1.0 | 3.5 | 76.6 | 2.5 | 73 |
| Jacques ----- | JX180 | 119 | 4.2 | 2.0 | 0.9 | 3.4 | 84.1 | 2.0 | 63 |
| Pioneer ----- | 3320 | 119 | 0.8 | 1.5 | 0.8 | 3.4 | 83.8 | 2.3 | 65 |
| Gold Kist ----- | GK1055 | 118 | 3.4 | 2.5 | 1.0 | 3.7 | 81.5 | 2.0 | 67 |
| Gold Kist ----- | GK915 | 117 | 3.3 | 1.8 | 0.8 | 3.6 | 81.0 | 1.8 | 64 |
| Cargill ----- | 495 | 112 | 1.9 | 3.3 | 0.9 | 3.4 | 83.9 | 2.5 | 64 |
| Coker ----- | 56 | 107 | 16.3 | 1.3 | 1.0 | 3.6 | 82.1 | 1.8 | 73 |
| Ring Around ----- | 1401 | 107 | 0.9 | 2.3 | 0.9 | 3.5 | 84.4 | 2.5 | 62 |
| USS ----- | 2461 | 97 | 15.8 | 2.5 | 0.9 | 3.6 | 81.9 | 1.3 | 69 |
| Test Average: | | 129 | | | | | | | |
| L.S.D. (.05): | | 11 | | | | | | | |
| C.V. (%): | | 7.4 | | | | | | | |

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

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

^{3/} Check hybrids.

