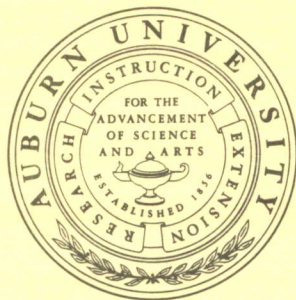
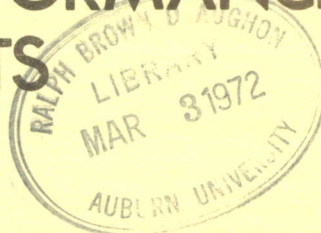


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No. 3



1971  
**ALABAMA  
GRAIN SORGHUM  
PERFORMANCE  
TESTS**



AGRICULTURAL EXPERIMENT STATION  
**AUBURN UNIVERSITY**  
E. V. SMITH, Director AUBURN, ALABAMA

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## 1971 Alabama Grain Sorghum Performance Tests

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Grain sorghum performance trials were conducted by the Auburn University Agricultural Experiment Station at seven locations in 1971. Performance of hybrids varies with location and it is therefore suggested that this report be carefully studied before choosing a hybrid. These tests are conducted to give a comparison of hybrids entered in each test and are not intended for use as an absolute measure of the yielding potential of a hybrid in an area. Names and addresses of agencies sponsoring entries in the 1971 tests are listed on the last page.

### Experimental Procedures

Recommended cultural practices were used in each test and practices were uniform for all hybrids within a test. The experimental design for all tests was a randomized complete block with four replications. Each test contained 25 entries. Location of the tests, plot size, and cultural practices are listed in Table 1.

### Yield

Yields are calculated from the weight of threshed grain from all heads in each plot. Yields are given in bushels per acre and are adjusted to 14 per cent moisture and 56 lb. per bushel.

### Lodging

Lodging is given as the per cent of plants broken or leaning more than 45 degrees. Seedheads of most of these plants would be missed by a combine; however, they are included in the yields in this report.

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### Plant Height

Plant height is measured from the soil to the tip of the head in feet. Height can affect harvest efficiency; however, most of the sorghums tested are medium in height and are acceptable in this respect.

### Head Exsertion

Head exsertion is measured from the flag leaf to the base of the head in inches. Poor head exsertion may result in excessive green plant material in the harvested grain and damage to the lower part of the head from water accumulating on the flag leaf.

### Head Type

Open or loose heads are important in the humid southeast. Open heads allow better air movement and faster drying after rains or dew. This is helpful in reducing head molds and other pests. A rating of one for tight heads and three for open heads is used.

### Mid-bloom

One measure of relative maturity is the mid-bloom date. This is the date when approximately one-half of the main heads in a plot are blooming. Number of days to mid-bloom is shown for entries at Camden and Monroeville in Tables 9 and 12, respectively.

### Bird Damage

Loss of grain from bird damage was a problem in most tests this year. Damage was greatest on the non-bird resistant hybrids; however, some damage also occurred to some bird resistant hybrids. In tests where birds were not a problem several of the non-bird resistant hybrids performed as well as the bird resistant hybrids. Where bird damage occurred it is listed as a visual estimate of the loss of grain and is given as a per cent.

### Selecting a Hybrid

Performance of hybrids will vary from year to year depending on many factors. Variation also occurs from location to location. Data from several years testing at the location most nearly simulating your conditions is the best method for selecting a hybrid. Do not consider small differences as real differences between hybrids. These small differences are probably caused by slight differences in soil, fertility, diseases, and other factors. Data for 3, 2, and 1 year for the Black Belt and Gulf Coast are presented in Tables 2-4 and 5-7, respectively. Data from 2 and 1 year for the Lower Coastal Plain are shown in Tables 8 and 9, respectively. One year data from the Upper Coastal Plain, Prattville, Monroeville, and Wiregrass are shown in Tables 10, 11, 12, and 13, respectively.

#### ACKNOWLEDGMENT

Location of tests and superintendents in charge are: L. A. Smith, Black Belt Substation; H. F. Yates, Gulf Coast; V. L. Brown, Lower Coastal Plain; R. A. Moore, Upper Coastal Plain; E. L. Carden, Monroeville Field; and C. A. Brogden, Wiregrass.

Table 1. Locations and Procedures for 1971 Grain Sorghum Tests

|                              | Black Belt             | Gulf Coast | Lower Coastal Plain | Upper Coastal Plain | Prattville Field       | Monroeville Field       | Wiregrass |
|------------------------------|------------------------|------------|---------------------|---------------------|------------------------|-------------------------|-----------|
| Planting date:               | 5-19                   | 6-15       | 5-20                | 7-1                 | 5-20                   | 5-18                    | 6-3       |
| Seeding rate<br>(plants/ft.) | 8                      | 8          | 8                   | 8                   | 8                      | 8                       | 8         |
| Plot size:                   |                        |            |                     |                     |                        |                         |           |
| Row number                   | 2                      | 2          | 2                   | 2                   | 2                      | 2                       | 2         |
| Row width (in)               | 36                     | 38         | 38                  | 40                  | 42                     | 42                      | 36        |
| Row length (ft)              | 22                     | 20         | 20                  | 20                  | 20                     | 20                      | 20        |
| Replications<br>(no.)        | 4                      | 4          | 4                   | 4                   | 4                      | 4                       | 4         |
| Nitrogen rate<br>(lb N/A)    | 85                     | 125        | 145                 | 105                 | 115                    | 120                     | 100       |
| Herbicide:                   |                        |            |                     |                     |                        |                         |           |
| Kind                         | Atrazine <sup>1/</sup> | None       | None                | None                | Atrazine <sup>1/</sup> | Propazine <sup>2/</sup> | None      |
| Rate (lb/A)                  | 3                      | -          | -                   | -                   | 3                      | 2.5                     | -         |
| Method                       | Broad-<br>cast         | -          | -                   | -                   | Broad-<br>cast         | Broad-<br>cast          | -         |

<sup>1/</sup> Applied postemergence.

<sup>2/</sup> Applied preemergence.

Table 2. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, 1969-1971

| Brand name   | Hybrid          | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup> | Head<br>type <sup>2/</sup> |
|--------------|-----------------|----------------|-----------------|---------------|---------------------------------|----------------------------|
|              |                 |                |                 |               | In.                             | Rating                     |
| Asgrow       | Bravis R        | 50.9           | 0.0             | 3.6           | 4.2                             | 2.5                        |
| Dorman       | BR-100          | 49.3           | 0.0             | 3.7           | 4.2                             | 2.0                        |
| -----        | Ga. 615         | 47.8           | 0.0             | 3.9           | 3.5                             | 2.0                        |
| Golden Acres | T.E. Bird-A-Boo | 47.2           | 0.0             | 3.3           | 3.3                             | 3.0                        |
| Funk's       | BR-79           | 47.0           | 0.0             | 4.0           | 4.1                             | 2.5                        |
| Excel        | Bird Go         | 43.7           | 0.0             | 4.1           | 4.4                             | 3.0                        |
| -----        | AKS 614         | 41.1           | 0.0             | 3.7           | 4.3                             | 2.5                        |
| McNair       | 546             | 38.2           | 0.0             | 3.4           | 3.2                             | 2.5                        |
| DeKalb       | BR-64           | 36.6           | 0.0             | 4.6           | 6.3                             | 2.0                        |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

Table 3. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, 1970-1971

| Brand name   | Hybrid             | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head                           | Head                         |
|--------------|--------------------|----------------|-----------------|---------------|--------------------------------|------------------------------|
|              |                    |                |                 |               | exsertion <sup>1/</sup><br>In. | type <sup>2/</sup><br>Rating |
| Dorman       | BR-100             | 51.8           | 0.0             | 4.0           | 5.6                            | 2.0                          |
| Asgrow       | Bravis R           | 47.1           | 0.0             | 3.8           | 5.5                            | 2.5                          |
| Funk's       | BR-79              | 47.1           | 0.0             | 4.3           | 5.4                            | 2.5                          |
| Golden Acres | T.E. Bird-A-Boo    | 45.7           | 0.0             | 3.5           | 3.9                            | 3.0                          |
| Pennington   | Penngrain BR       | 43.6           | 0.0             | 4.3           | 5.0                            | 2.5                          |
| -----        | Ga. 615            | 42.6           | 0.0             | 4.2           | 4.5                            | 2.0                          |
| -----        | AKS 614            | 40.2           | 0.0             | 4.0           | 5.5                            | 2.2                          |
| DeKalb       | BF-64              | 38.4           | 0.0             | 4.9           | 8.0                            | 2.0                          |
| Excel        | Bird Co            | 37.7           | 0.0             | 4.4           | 5.5                            | 2.7                          |
| McNair       | 546                | 36.7           | 0.0             | 3.5           | 4.0                            | 2.7                          |
| Funk's       | BR-630             | 33.7           | 0.0             | 3.7           | 4.2                            | 2.5                          |
| DeKalb       | E-57 <sup>3/</sup> | <u>4/</u>      | 0.0             | 4.2           | 7.4                            | 1.5                          |
| Niagara      | ORO <sup>3/</sup>  | <u>4/</u>      | 0.0             | 3.3           | 4.0                            | 1.5                          |

<sup>1/</sup> Measured from flag or terminal leaf to base of the head.

<sup>2/</sup> 1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup> Not bird resistant.

<sup>4/</sup> Destroyed by birds.



Table 4. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, 1971<sup>1/</sup>

| Brand name    | Hybrid                  | Yield<br>Bu./A | Lodg-<br>ing<br>Pct. | Height<br>Ft. | Head<br>exser-<br>tion <sup>2/</sup><br>In. | Head<br>type <sup>3/</sup><br>Rating | Harvest<br>Date | Estimated<br>bird<br>damage<br>Pct. |
|---------------|-------------------------|----------------|----------------------|---------------|---|--------------------------------------|-----------------|-------------------------------------|
| Funk's        | HW 3196                 | 41.7           | 0.0                  | 4.1           | 6.0   | 3.0                                  | 8-14            | 0.0                                 |
| Funk's        | HW 3364                 | 40.6           | 0.0                  | 4.0           | 6.0   | 2.0                                  | 8-11            | 0.0                                 |
| George Warner | W-758                   | 39.9           | 0.0                  | 4.0           | 5.0   | 3.0                                  | 8-11            | 0.0                                 |
| Funk's        | BR-79                   | 38.2           | 0.0                  | 4.4           | 7.0   | 2.0                                  | 8-18            | 0.0                                 |
| Excel         | Bird Go                 | 38.2           | 0.0                  | 4.6           | 7.0   | 3.0                                  | 8-14            | 0.0                                 |
| Pennington    | Penngrain BR            | 38.1           | 0.0                  | 4.6           | 6.5   | 2.0                                  | 8-11            | 0.0                                 |
| -----         | Ga. 615                 | 37.8           | 0.0                  | 4.5           | 6.5   | 2.0                                  | 8-14            | 0.0                                 |
| Dorman        | BR-100                  | 37.3           | 0.0                  | 4.1           | 7.0   | 2.0                                  | 8-14            | 0.0                                 |
| DeKalb        | BR-64                   | 36.8           | 0.0                  | 5.0           | 10.5  | 2.0                                  | 8-25            | 2.0                                 |
| -----         | AKS 614                 | 36.1           | 0.0                  | 4.1           | 6.5   | 2.0                                  | 8-16            | 0.0                                 |
| -----         | AKS 663                 | 36.0           | 0.0                  | 4.6           | 7.0   | 3.0                                  | 8-21            | 9.0                                 |
| Asgrow        | Bravis R                | 35.9           | 0.0                  | 3.9           | 6.5   | 2.0                                  | 8-21            | 1.0                                 |
| Golden Acres  | T.E. Bird-<br>A-Boo     | 34.3           | 0.0                  | 3.6           | 5.0   | 3.0                                  | 8-16            | 0.0                                 |
| ACCO          | R-1093                  | 33.1           | 0.0                  | 4.1           | 6.0   | 3.0                                  | 8-14            | 0.0                                 |
| Pioneer       | BR-804                  | 32.3           | 0.0                  | 3.6           | 5.5   | 3.0                                  | 8-19            | 0.0                                 |
| Funk's        | BR-630                  | 30.7           | 0.0                  | 3.9           | 6.5   | 2.0                                  | 8-11            | 0.0                                 |
| Excel         | Bird Go 68              | 30.5           | 0.0                  | 3.6           | 6.5   | 2.0                                  | 8-23            | 5.0                                 |
| McNair        | 546                     | 27.3           | 0.0                  | 3.8           | 6.0   | 3.0                                  | 8-11            | 0.0                                 |
| Northrup King | NK 222 G                | 5.5            | 0.0                  | 2.9           | 5.5   | 1.0                                  | 8-5             | 1.0                                 |
| Niagara       | ORO <sup>4/</sup>       | -----          | 0.0                  | 3.4           | 6.0   | 1.0                                  | ---             | 100.0                               |
| Niagara       | ORO-T <sup>4/</sup>     | -----          | 0.0                  | 4.5           | 8.0   | 1.0                                  | ---             | 100.0                               |
| DeKalb        | E-57 <sup>4/</sup>      | -----          | 0.0                  | 4.4           | 7.5   | 1.0                                  | ---             | 100.0                               |
| DeKalb        | E-59 <sup>4/</sup>      | -----          | 0.0                  | 3.6           | 7.5   | 1.0                                  | ---             | 100.0                               |
| Asgrow        | Dorado <sup>4/</sup>    | -----          | 0.0                  | 3.5           | 6.0   | 1.0                                  | ---             | 100.0                               |
| Asgrow        | Double TX <sup>4/</sup> | -----          | 0.0                  | 4.1           | 9.0   | 1.0                                  | ---             | 100.0                               |

<sup>1/</sup>Planted: May 19.<sup>2/</sup>Measured from flag or terminal leaf to base of the head.<sup>3/</sup>1 = tight; 2 = medium; 3 = loose.<sup>4/</sup>Not bird resistant.

Table 5. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, 1969-1971

| Brand name    | Hybrid              | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head<br>type <sup>2/</sup><br>Rating | Estimated              |
|---------------|---------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|               |                     |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| DeKalb        | BR-64               | 51.8           | 0.0             | 4.3           | 9.3                                    | 2.0                                  | 1.1                    |
| Funk's        | G-522 <sup>3/</sup> | 50.6           | 0.0             | 3.4           | 6.5                                    | 1.6                                  | 35.0                   |
| Funk's        | BR-79               | 47.7           | 2.4             | 4.0           | 7.7                                    | 3.0                                  | 2.0                    |
| Excel         | Bird Go             | 47.6           | 3.8             | 4.0           | 7.7                                    | 3.0                                  | 0.0                    |
| Asgrow        | Bravis R            | 47.5           | 6.6             | 3.7           | 7.8                                    | 3.0                                  | 0.0                    |
| McNair        | 546                 | 46.0           | 1.1             | 3.4           | 7.7                                    | 2.6                                  | 0.0                    |
| -----         | AKS 614             | 45.8           | 7.3             | 3.7           | 7.3                                    | 3.0                                  | 0.0                    |
| -----         | Ga. 615             | 45.4           | 2.8             | 3.9           | 7.4                                    | 3.0                                  | 0.0                    |
| Golden Acres  | T.E. Bird-A-Boo     | 41.4           | 10.1            | 3.4           | 7.5                                    | 3.0                                  | 0.0                    |
| George Warner | W-758               | 40.0           | 8.1             | 3.4           | 6.6                                    | 3.0                                  | 0.0                    |
| Dorman        | BR-100              | 35.8           | 1.8             | 3.8           | 7.7                                    | 3.0                                  | 0.0                    |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup>Not bird resistant.

Table 6. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, 1970-1971

| Brand name    | Hybrid              | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head<br>type <sup>2/</sup><br>Rating | Estimate               |
|---------------|---------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|               |                     |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| Funk's        | G-522 <sup>3/</sup> | 62.0           | 0.0             | 3.5           | 3.2                                    | 2.0                                  | 37.5                   |
| DeKalb        | BR-64               | 58.2           | 0.0             | 4.3           | 6.0                                    | 3.0                                  | 1.7                    |
| Funk's        | BR-79               | 56.1           | 1.0             | 4.1           | 4.7                                    | 3.0                                  | 3.5                    |
| Pennington    | Penngrain BR        | 54.5           | 1.0             | 4.0           | 3.0                                    | 3.0                                  | 0.0                    |
| Excel         | Bird Go             | 53.8           | 3.0             | 4.2           | 4.2                                    | 3.0                                  | 0.0                    |
| Asgrow        | Bravis R            | 53.6           | 0.0             | 3.8           | 4.0                                    | 3.0                                  | 0.0                    |
| McNair        | 546                 | 53.0           | 1.0             | 3.4           | 3.7                                    | 3.0                                  | 0.0                    |
| -----         | AKS 614             | 50.9           | 1.0             | 4.0           | 4.2                                    | 3.0                                  | 0.0                    |
| Niagara       | ORO <sup>3/</sup>   | 50.5           | 0.0             | 3.6           | 3.2                                    | 2.0                                  | 35.7                   |
| -----         | Ga. 615             | 50.4           | 2.0             | 4.0           | 4.0                                    | 3.0                                  | 0.0                    |
| George Warner | 758                 | 48.0           | 1.0             | 3.6           | 3.0                                    | 3.0                                  | 0.0                    |
| Golden Acres  | T.E. Bird-A-Boo     | 47.6           | 3.0             | 3.4           | 3.7                                    | 3.0                                  | 0.0                    |
| Funk's        | BR-630              | 46.8           | 1.0             | 3.4           | 3.7                                    | 3.0                                  | 0.0                    |
| Dorman        | BR-100              | 37.6           | 1.0             | 3.9           | 4.5                                    | 3.0                                  | 0.0                    |
| DeKalb        | E-57 <sup>3/</sup>  | 35.6           | 0.0             | 4.1           | 5.0                                    | 2.5                                  | 38.0                   |

<sup>1/</sup> Measured from flag or terminal leaf to base of the head.

<sup>2/</sup> 1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup> Not bird resistant.

Table 7. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, 1971

| Brand name    | Hybrid                   | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head <sup>2/</sup><br>type<br>Rating | Estimate               |
|---------------|--------------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|               |                          |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| Funk's        | G-522 <sup>3/</sup>      | 60.5           | 0.0             | 3.6           | 4.0                                    | 2.0                                  | 25.0                   |
| Funk's        | BR-79                    | 56.3           | 2.0             | 4.0           | 5.0                                    | 3.0                                  | 0.0                    |
| Asgrow        | Dorado M <sup>3/</sup>   | 53.0           | 0.0             | 4.0           | 5.0                                    | 2.0                                  | 33.0                   |
| Niagara       | ORO <sup>3/</sup>        | 52.8           | 0.0             | 3.7           | 4.0                                    | 2.0                                  | 20.0                   |
| DeKalb        | BR-64                    | 52.6           | 0.0             | 4.2           | 6.5                                    | 3.0                                  | 1.0                    |
| ACCO          | R-1023                   | 52.0           | 0.0             | 3.7           | 4.0                                    | 3.0                                  | 0.0                    |
| Asgrow        | Bravis R                 | 51.4           | 1.0             | 3.8           | 4.0                                    | 3.0                                  | 0.0                    |
| Funk's        | BR-630                   | 51.4           | 1.0             | 3.5           | 4.0                                    | 3.0                                  | 0.0                    |
| -----         | Ga. 615                  | 51.2           | 3.0             | 4.1           | 4.0                                    | 3.0                                  | 0.0                    |
| Pennington    | Penngrain BR             | 51.0           | 2.0             | 3.9           | 4.0                                    | 3.0                                  | 0.0                    |
| George Warner | W-736                    | 51.0           | 2.0             | 3.8           | 4.0                                    | 3.0                                  | 1.0                    |
| Excel         | Bird Go                  | 50.6           | 3.0             | 4.1           | 5.0                                    | 3.0                                  | 0.0                    |
| Northrup King | Savanna 2                | 50.6           | 0.0             | 3.7           | 5.0                                    | 3.0                                  | 0.0                    |
| McNair        | 546                      | 49.0           | 1.0             | 3.3           | 4.5                                    | 3.0                                  | 0.0                    |
| Dorman        | BR-100                   | 48.6           | 2.0             | 3.9           | 5.5                                    | 3.0                                  | 0.0                    |
| McNair        | 880                      | 48.4           | 0.0             | 3.9           | 4.0                                    | 1.0                                  | 0.0                    |
| Pioneer       | X8118 <sup>3/</sup>      | 47.7           | 0.0             | 3.7           | 4.0                                    | 2.0                                  | 4.0                    |
| DeKalb        | BR-44                    | 47.1           | 2.0             | 3.6           | 5.0                                    | 2.0                                  | 0.0                    |
| DeKalb        | E-57 <sup>3/</sup>       | 46.7           | 0.0             | 3.8           | 5.0                                    | 3.0                                  | 26.0                   |
| Pioneer       | 828 <sup>3/</sup>        | 46.5           | 0.0             | 4.6           | 5.5                                    | 1.0                                  | 32.0                   |
| -----         | AKS 614                  | 46.5           | 3.0             | 3.8           | 4.5                                    | 3.0                                  | 0.0                    |
| Excel         | Bird Go A                | 45.1           | 1.0             | 3.6           | 4.0                                    | 3.0                                  | 0.0                    |
| Golden Acres  | T.E. Total <sup>3/</sup> | 45.0           | 0.0             | 3.9           | 4.5                                    | 2.0                                  | 34.0                   |
| George Warner | 758                      | 44.7           | 2.0             | 3.6           | 4.0                                    | 3.0                                  | 0.0                    |
| Golden Acres  | T.E. Bird-A-Boo          | 42.5           | 3.0             | 3.4           | 4.5                                    | 3.0                                  | 0.0                    |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup>Not bird resistant.

Table 8. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Lower Coastal Plain Substation, 1970-1971

| Brand name   | Hybrid             | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head<br>type <sup>2/</sup><br>Rating | Estimate               |
|--------------|--------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|              |                    |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| Funk's       | BR-79              | 70.9           | 5.0             | 4.1           | 9.3                                    | 2.8                                  | 0.0                    |
| -----        | AKS 614            | 70.6           | 2.5             | 3.8           | 9.0                                    | 2.8                                  | 0.0                    |
| Excel        | Bird Go            | 70.1           | 7.0             | 4.2           | 10.4                                   | 2.8                                  | 1.5                    |
| Funk's       | BR-630             | 66.4           | 0.0             | 3.3           | 9.2                                    | 2.8                                  | 2.0                    |
| -----        | Ga. 615            | 65.8           | 2.5             | 4.0           | 9.8                                    | 2.5                                  | 2.0                    |
| Pennington   | Penngrain BR       | 65.2           | 2.0             | 4.0           | 9.2                                    | 2.8                                  | 0.0                    |
| Asgrow       | Bravis R           | 63.5           | 0.5             | 3.6           | 10.4                                   | 3.0                                  | 0.5                    |
| McNair       | 546                | 62.5           | 0.0             | 3.5           | 9.5                                    | 3.0                                  | 0.0                    |
| Niagara      | ORO <sup>3/</sup>  | 60.4           | 0.5             | 3.2           | 7.5                                    | 1.3                                  | 9.1                    |
| Golden Acres | T.E. Bird-A-Boo    | 60.4           | 0.5             | 3.4           | 9.9                                    | 3.0                                  | 0.0                    |
| Dorman       | BR-100             | 54.9           | 2.0             | 3.8           | 10.2                                   | 2.5                                  | 1.5                    |
| DeKalb       | BR-64              | 54.8           | 0.5             | 4.8           | 12.6                                   | 2.3                                  | 4.5                    |
| DeKalb       | E-57 <sup>3/</sup> | 48.2           | 0.0             | 4.0           | 10.9                                   | 3.0                                  | 13.5                   |

<sup>1/</sup> Measured from flag or terminal leaf to base of the head.

<sup>2/</sup> 1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup> Not bird resistant.

Table 9. Yield and Other Characteristics of Grain Sorghum Varieties Tested at the Lower Coastal Plain Substation, 1971

| Brand name        | Hybrid                   | Yield<br>Bu./A | Lodg-<br>ing<br>Pct. | Height<br>Ft. | Head<br>exser-<br>tion <sup>1/</sup><br>In. | Head<br>type <sup>2/</sup><br>Rating | Estimated<br>bird<br>damage<br>Pct. | Days<br>to<br>mid-bloom<br>No. |
|-------------------|--------------------------|----------------|----------------------|---------------|---|--------------------------------------|-------------------------------------|--------------------------------|
|                   |                          |                |                      |               |   |                                      |                                     |                                |
| -----             | AKS 614                  | 68.0           | 5.0                  | 4.7           | 14.0  | 2.5                                  | 0.0                                 | 55                             |
| McNair            | 546                      | 61.5           | 0.0                  | 4.2           | 15.0  | 3.0                                  | 0.0                                 | 57                             |
| Excel             | Bird Go                  | 60.8           | 14.0                 | 5.3           | 16.0  | 2.5                                  | 3.0                                 | 59                             |
| Dorman            | BR-100                   | 60.2           | 4.0                  | 4.7           | 15.0  | 2.0                                  | 3.0                                 | 55                             |
| ACCO              | R-1023                   | 60.2           | 0.0                  | 4.5           | 15.0  | 2.5                                  | 1.0                                 | 57                             |
| George Warner     | 736                      | 59.5           | 1.0                  | 4.4           | 14.0  | 2.5                                  | 3.0                                 | 55                             |
| -----             | Ga. 615                  | 58.8           | 5.0                  | 4.9           | 15.0  | 2.0                                  | 4.0                                 | 57                             |
| Pennington        | Penngrain BR             | 56.4           | 4.0                  | 4.8           | 14.0  | 2.5                                  | 0.0                                 | 57                             |
| George Warner     | 758                      | 55.8           | 2.0                  | 4.2           | 13.0  | 2.5                                  | 0.0                                 | 56                             |
| Excel             | Bird Go A                | 54.0           | 0.0                  | 4.1           | 12.0  | 2.5                                  | 0.0                                 | 57                             |
| Golden Acres T.E. | Bird-A-Boo               | 54.0           | 1.0                  | 3.9           | 15.0  | 3.0                                  | 0.0                                 | 54                             |
| Asgrow            | Bravis R                 | 51.0           | 1.0                  | 4.1           | 16.0  | 3.0                                  | 1.0                                 | 55                             |
| Funk's            | BR-630                   | 47.9           | 0.0                  | 3.9           | 14.0  | 2.5                                  | 4.0                                 | 56                             |
| DeKalb            | BR-64                    | 47.6           | 1.0                  | 5.9           | 18.0  | 2.5                                  | 9.0                                 | 63                             |
| Funk's            | G-522 <sup>4/</sup>      | 45.9           | 0.0                  | 3.8           | 14.0  | 1.5                                  | 25.0                                | 60                             |
| Niagara           | ORO <sup>4/</sup>        | 43.8           | 1.0                  | 3.8           | 12.0  | 1.5                                  | 7.0                                 | 55                             |
| Pioneer           | X 8118 <sup>4/</sup>     | 41.8           | 0.0                  | 4.1           | 13.0  | 1.0                                  | 15.0                                | 66                             |
| Northrup King     | Savanna 2                | 38.8           | 1.0                  | 4.6           | 13.0  | 1.5                                  | 3.0                                 | 64                             |
| DeKalb            | E-57 <sup>4/</sup>       | 37.1           | 0.0                  | 4.8           | 16.0  | 3.0                                  | 16.0                                | 57                             |
| DeKalb            | BR-44                    | 37.0           | 0.0                  | 4.3           | 15.0  | 2.0                                  | 8.0                                 | 57                             |
| Asgrow            | Dorado M <sup>4/</sup>   | 36.0           | 0.0                  | 4.9           | 14.0  | 2.0                                  | 63.0                                | 60                             |
| Golden Acres      | T.E. Total <sup>4/</sup> | 33.3           | 1.0                  | 4.7           | 15.0  | 2.0                                  | 54.0                                | 61                             |
| McNair            | 880                      | 26.2           | 0.0                  | 4.0           | 13.0  | 1.0                                  | 5.0                                 | 64                             |
| Pioneer           | 828 <sup>4/</sup>        | 23.1           | 1.0                  | 5.4           | 15.0  | 1.0                                  | 75.0                                | 61                             |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup>Planted: May 20.

<sup>4/</sup>Not bird resistant.

Table 10. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Upper Coastal Plain Substation, 1971

| Brand name    | Hybrid                  | Yield               | Lodging | Height | Head exertion <sup>1/</sup> | Head type <sup>2/</sup> |
|---------------|-------------------------|---------------------|---------|--------|-----------------------------|-------------------------|
|               |                         | Bu./A               | Pct.    | Ft.    | In.                         | Rating                  |
| ACCO          | R-1093                  | 38.0                | 0.0     | 3.0    | 3.0                         | 2.0                     |
| Funk's        | BR-630                  | 32.0                | 0.0     | 2.7    | 1.0                         | 2.5                     |
| McNair        | 546                     | 30.3                | 5.0     | 2.8    | 2.0                         | 2.5                     |
| Pioneer       | BR-804                  | 24.4                | 0.0     | 2.9    | 3.0                         | 2.0                     |
| Pennington    | Penngrain BR            | 20.8                | 4.0     | 3.4    | 4.0                         | 2.0                     |
| -----         | AKS 614                 | 20.2                | 15.0    | 2.9    | 3.0                         | 2.0                     |
| Warner        | 758                     | 19.7                | 6.0     | 2.8    | 2.0                         | 2.5                     |
| Dorman        | BR-100                  | 18.7                | 5.0     | 3.1    | 2.0                         | 2.0                     |
| Golden Acres  | T.E. Bird-A-Boo         | 18.7                | 16.0    | 2.5    | 2.0                         | 2.5                     |
| Funk's        | HW 3196                 | 15.3                | 7.0     | 2.8    | 3.0                         | 2.5                     |
| Asgrow        | Bravis R                | 14.4                | 0.0     | 2.4    | 3.0                         | 2.0                     |
| -----         | Ga. 615                 | 14.4                | 5.0     | 3.0    | 2.0                         | 2.0                     |
| Funk's        | HW 3364                 | 13.1                | 1.0     | 3.0    | 3.0                         | 2.0                     |
| Excel         | Bird Go                 | 12.7                | 0.0     | 2.9    | 2.0                         | 2.5                     |
| Funk's        | BR-79                   | 12.1                | 6.0     | 2.9    | 3.0                         | 2.0                     |
| Northrup King | NK 222G                 | 8.0                 | 5.0     | 2.3    | 3.0                         | 1.5                     |
| -----         | AKS 663                 | 7.8                 | 0.0     | 2.9    | 3.0                         | 2.0                     |
| Asgrow        | Dorado <sup>3/</sup>    | ----- <sup>4/</sup> | 0.0     | 2.5    | 3.0                         | 2.0                     |
| Asgrow        | Double TX <sup>3/</sup> | ----- <sup>4/</sup> | 0.0     | 3.5    | 3.0                         | 1.5                     |
| DeKalb        | BR-64                   | ----- <sup>4/</sup> | 0.0     | 3.7    | 8.0                         | 1.5                     |
| DeKalb        | E-57 <sup>3/</sup>      | ----- <sup>4/</sup> | 0.0     | 2.9    | 3.0                         | 2.0                     |
| DeKalb        | E-59 <sup>3/</sup>      | ----- <sup>4/</sup> | 0.0     | 2.6    | 4.0                         | 2.0                     |
| Excel         | Bird Go-68              | ----- <sup>4/</sup> | 0.0     | 2.5    | 2.0                         | 2.0                     |
| Niagara       | ORO <sup>3/</sup>       | ----- <sup>4/</sup> | 0.0     | 2.6    | 2.0                         | 2.0                     |
| Niagara       | ORO-T <sup>3/</sup>     | ----- <sup>4/</sup> | 0.0     | 3.4    | 5.0                         | 1.5                     |

<sup>1/</sup> Measured from flag or terminal leaf to base of the head.

<sup>2/</sup> 1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup> Not bird resistant.

<sup>4/</sup> Failed to develop a measurable amount of grain; cause unknown.

Table 11. Yield and Other Characteristics of Grain Sorghum Varieties Tested at Prattville Field, 1971

| Brand name    | Hybrid                   | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head <sup>2/</sup><br>type<br>Rating | Estimated              |
|---------------|--------------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|               |                          |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| Asgrow        | Bravis R                 | 54.2           | 0.0             | 3.6           | 2.5                                    | 3.0                                  | 11.0                   |
| Golden Acres  | T.E. Bird-A-Boo          | 45.0           | 0.0             | 3.4           | 2.0                                    | 3.0                                  | 4.0                    |
| -----         | AKS 614                  | 40.0           | 0.0             | 3.6           | 1.5                                    | 3.0                                  | 19.0                   |
| Funk's        | BR-630                   | 40.0           | 0.0             | 3.3           | 1.5                                    | 3.0                                  | 12.0                   |
| ACCO          | R-1093                   | 38.1           | 0.0             | 3.3           | 2.0                                    | 3.0                                  | 16.0                   |
| Dorman        | BR-100                   | 36.7           | 0.0             | 3.6           | 2.0                                    | 3.0                                  | 23.0                   |
| Pioneer       | BR-804                   | 34.3           | 0.0             | 3.2           | 2.5                                    | 3.0                                  | 23.0                   |
| -----         | Ga. 615                  | 30.0           | 0.0             | 3.6           | 1.5                                    | 3.0                                  | 40.0                   |
| George Warner | 758                      | 29.4           | 0.0             | 3.3           | 2.0                                    | 3.0                                  | 14.0                   |
| Pennington    | Penngrain BR             | 28.5           | 0.0             | 3.4           | 2.0                                    | 3.0                                  | 16.0                   |
| Excel         | Bird Go 68               | 28.0           | 0.0             | 3.2           | 2.0                                    | 3.0                                  | 10.0                   |
| McNair        | 546                      | 27.4           | 0.0             | 3.3           | 2.0                                    | 2.5                                  | 19.0                   |
| DeKalb        | BR-64                    | 25.7           | 0.0             | 4.0           | 4.0                                    | 3.0                                  | 35.0                   |
| Funk's        | BR-79                    | 21.1           | 0.0             | 3.8           | 2.5                                    | 3.0                                  | 59.0                   |
| Excel         | Bird <sup>3/</sup> Go    | 20.4           | 0.0             | 3.8           | 3.0                                    | 3.0                                  | 50.0                   |
| Niagara       | ORO <sup>3/</sup>        | -----          | 0.0             | 3.9           | 2.0                                    | 1.0                                  | 100.0                  |
| -----         | AKS 663                  | -----          | 0.0             | 3.9           | 4.0                                    | 3.0                                  | 100.0                  |
| DeKalb        | E-57 <sup>3/</sup>       | -----          | 0.0             | 3.6           | 4.0                                    | 2.5                                  | 100.0                  |
| Northrup King | NK 222 <sup>G</sup>      | -----          | 0.0             | 2.9           | 4.0                                    | 1.0                                  | 100.0                  |
| Asgrow        | Dorado <sup>3/</sup>     | -----          | 0.0             | 3.1           | 2.0                                    | 1.0                                  | 100.0                  |
| Asgrow        | Double TX <sup>3/</sup>  | -----          | 0.0             | 3.6           | 3.0                                    | 1.0                                  | 100.0                  |
| DeKalb        | E-59 <sup>3/</sup>       | -----          | 0.0             | 3.3           | 2.5                                    | 1.0                                  | 100.0                  |
| Golden Acres  | T.E. Y-101 <sup>3/</sup> | -----          | 0.0             | 3.1           | 3.0                                    | 1.0                                  | 100.0                  |
| Niagara       | ORO-T <sup>3/</sup>      | -----          | 0.0             | 3.6           | 2.0                                    | 1.0                                  | 100.0                  |
| McNair        | 654 <sup>3/</sup>        | -----          | 0.0             | 3.1           | 1.0                                    | 1.0                                  | 100.0                  |

<sup>1/</sup> Measured from flag or terminal leaf to base of the head.

<sup>2/</sup> 1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup> Not bird resistant.



Table 12. Yield and Other Characteristics of Grain Sorghum Varieties Tested at Monroeville Field, 1971

| Brand name        | Hybrid                  | Yield<br>Bu./A | Lodg-<br>ing<br>Pct. | Height<br>Ft. | Head                                | Head<br>type <sup>2/</sup> | Estimated<br>bird<br>damage<br>Pct. | Days<br>to<br>mid-bloom <sup>3/</sup><br>No. |
|-------------------|-------------------------|----------------|----------------------|---------------|-------------------------------------|----------------------------|-------------------------------------|--|
|                   |                         |                |                      |               | exser-<br>tion <sup>1/</sup><br>In. |                            |                                     |  |
| Funk's            | BR-79                   | 41.3           | 0.0                  | 3.7           | 0.0                                 | 3.0                        | 12                                  | 58   |
| -----             | AKS 614                 | 41.1           | 1.0                  | 3.5           | 0.0                                 | 2.0                        | 0                                   | 56   |
| McNair            | 546                     | 41.0           | 0.0                  | 3.1           | 0.0                                 | 3.0                        | 25                                  | 55   |
| ACCO              | R-1093                  | 39.6           | 0.0                  | 3.3           | 0.7                                 | 3.0                        | 3                                   | 57   |
| Funk's            | HW 3196                 | 39.4           | 0.0                  | 3.5           | 0.5                                 | 3.0                        | 10                                  | 57   |
| Funk's            | HW 3364                 | 38.7           | 1.0                  | 3.2           | 0.0                                 | 3.0                        | 4                                   | 55   |
| Dorman            | BR-100                  | 38.5           | 2.0                  | 3.7           | 1.0                                 | 3.0                        | 12                                  | 55   |
| Golden Acres T.E. | Bird-A-Boo              | 37.8           | 0.0                  | 3.1           | 0.0                                 | 2.5                        | 0                                   | 55   |
| George Warner     | 758                     | 37.1           | 6.0                  | 3.5           | 0.0                                 | 3.0                        | 0                                   | 55   |
| Pioneer           | BR 804                  | 37.1           | 1.0                  | 3.1           | 0.0                                 | 3.0                        | 4                                   | 57   |
| Funk's            | BR-630                  | 36.1           | 0.0                  | 3.0           | 0.0                                 | 3.0                        | 5                                   | 55   |
| Excel             | Bird Go                 | 36.1           | 0.0                  | 3.8           | 0.0                                 | 3.0                        | 12                                  | 58   |
| Northrup King     | NK 222 G                | 34.0           | 0.0                  | 3.0           | 15.0                                | 1.0                        | 6                                   | 50   |
| Asgrow            | Bravis R                | 33.1           | 0.0                  | 2.4           | 0.5                                 | 2.0                        | 4                                   | 56   |
| Pennington        | Penngrain BR            | 33.0           | 0.0                  | 3.7           | 0.0                                 | 3.0                        | 12                                  | 56   |
| -----             | Ga. 615                 | 32.3           | 6.0                  | 3.7           | 0.0                                 | 3.0                        | 9                                   | 57   |
| DeKalb            | BR-64                   | 31.9           | 0.0                  | 4.1           | 4.0                                 | 2.5                        | 21                                  | 61   |
| Excel             | Bird Go 68              | 31.3           | 0.0                  | 3.3           | 1.0                                 | 2.5                        | 12                                  | 61   |
| -----             | AKS 663                 | 17.0           | 0.0                  | 3.7           | 3.0                                 | 3.0                        | 60                                  | 62   |
| Niagara           | ORO <sup>4/</sup>       | -----          | 0.0                  | 2.8           | 0.0                                 | 2.0                        | 100                                 | 59   |
| DeKalb            | E-57 <sup>4/</sup>      | -----          | 0.0                  | 3.4           | 0.5                                 | 2.0                        | 100                                 | 59   |
| Asgrow            | Dorado <sup>4/</sup>    | -----          | 0.0                  | 2.7           | 0.0                                 | 1.0                        | 100                                 | 59   |
| Asgrow            | Double TX <sup>4/</sup> | -----          | 0.0                  | 3.5           | 0.7                                 | 1.0                        | 100                                 | 61   |
| DeKalb            | E-59 <sup>4/</sup>      | -----          | 0.0                  | 2.9           | 1.0                                 | 1.0                        | 100                                 | 60   |
| Niagara           | ORO-T <sup>4/</sup>     | -----          | 0.0                  | 3.7           | 1.0                                 | 1.0                        | 100                                 | 60   |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup>Planted: May 18.

<sup>4/</sup>Not bird resistant.

Table 13. Yield and Other Characteristics of Grain Sorghum Varieties  
Tested at the Wiregrass Substation, 1971

| Brand name    | Hybrid                   | Yield<br>Bu./A | Lodging<br>Pct. | Height<br>Ft. | Head<br>exsertion <sup>1/</sup><br>In. | Head<br>type <sup>2/</sup><br>Rating | Estimated              |
|---------------|--------------------------|----------------|-----------------|---------------|--|--------------------------------------|------------------------|
|               |                          |                |                 |               |  |                                      | bird<br>damage<br>Pct. |
| Niagara       | ORO-T <sup>3/</sup>      | 112.0          | 0.0             | 5.2           | 10.0                                   | 2.0                                  | 0.0                    |
| DeKalb        | E-59 <sup>3/</sup>       | 99.7           | 0.0             | 4.5           | 10.0                                   | 2.5                                  | 0.0                    |
| -----         | AKS 614                  | 94.7           | 0.0             | 4.8           | 11.0                                   | 3.0                                  | 0.0                    |
| Excel         | Bird Go-68               | 92.7           | 0.0             | 4.4           | 9.0                                    | 3.0                                  | 0.0                    |
| Excel         | Bird Go <sup>3/</sup>    | 92.2           | 0.0             | 5.2           | 9.5                                    | 3.0                                  | 0.0                    |
| Golden Acres  | T.E. Y-101 <sup>3/</sup> | 90.5           | 0.0             | 4.2           | 5.5                                    | 3.0                                  | 0.0                    |
| -----         | AKS 663                  | 89.8           | 0.0             | 5.0           | 11.0                                   | 2.0                                  | 0.0                    |
| DeKalb        | BR-64                    | 89.4           | 0.0             | 5.6           | 12.0                                   | 3.0                                  | 0.0                    |
| Asgrow        | Dorado <sup>3/</sup>     | 88.7           | 0.0             | 3.8           | 7.0                                    | 2.0                                  | 0.0                    |
| Golden Acres  | T.E. Bird-A-Boo          | 87.0           | 0.0             | 4.2           | 10.0                                   | 3.0                                  | 0.0                    |
| Pennington    | Penngrain <sup>BR</sup>  | 86.7           | 0.0             | 4.5           | 9.0                                    | 3.0                                  | 0.0                    |
| Asgrow        | Double TX <sup>3/</sup>  | 85.1           | 0.0             | 5.0           | 12.0                                   | 1.0                                  |                        |
| Asgrow        | Bravis R                 | 84.8           | 0.0             | 4.7           | 9.0                                    | 3.0                                  | 0.0                    |
| Dorman        | BR-100                   | 84.0           | 0.0             | 4.4           | 11.0                                   | 3.0                                  | 0.0                    |
| McNair        | 654 <sup>3/</sup>        | 83.1           | 0.0             | 4.6           | 9.0                                    | 2.0                                  | 0.0                    |
| Niagara       | ORO <sup>3/</sup>        | 82.4           | 0.0             | 3.7           | 6.0                                    | 2.5                                  | 0.0                    |
| McNair        | 546                      | 82.2           | 0.0             | 4.1           | 8.5                                    | 2.0                                  | 0.0                    |
| ACCO          | R-1093                   | 82.2           | 0.0             | 4.2           | 8.0                                    | 3.0                                  | 0.0                    |
| -----         | Ga. 615                  | 80.8           | 0.0             | 4.6           | 8.0                                    | 3.0                                  | 0.0                    |
| Funk's        | BR-79                    | 79.9           | 0.0             | 5.2           | 10.0                                   | 3.0                                  | 0.0                    |
| DeKalb        | E-57 <sup>3/</sup>       | 78.3           | 0.0             | 4.4           | 8.0                                    | 3.0                                  | 0.0                    |
| George Warner | 758                      | 77.2           | 0.0             | 4.2           | 9.5                                    | 3.0                                  | 0.0                    |
| Pioneer       | BR-804                   | 75.6           | 1.0             | 4.2           | 9.5                                    | 3.0                                  | 0.0                    |
| Funk's        | BR-630                   | 71.0           | 0.0             | 3.8           | 8.5                                    | 3.0                                  | 0.0                    |
| Northrup King | NK 222 G                 | 45.5           | 0.0             | 3.0           | 9.0                                    | 3.0                                  | 0.0                    |

<sup>1/</sup>Measured from flag or terminal leaf to base of the head.

<sup>2/</sup>1 = tight; 2 = medium; 3 = loose.

<sup>3/</sup>Not bird resistant.

Agencies Furnishing Seed for the 1971 Grain Sorghum Tests
 

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| Entry                   | Source of seed   |
|-------------------------|--|
| ACCO . . . . .          | ACCO Seed<br>P. O. Box 1630<br>Plainview, Texas                            |
| AKS . . . . .           | Department of Agronomy<br>University of Arkansas<br>Fayetteville, Arkansas |
| Asgrow . . . . .        | Asgrow Seed Company<br>1216 Logan Circle, N.W.<br>Atlanta, Georgia         |
| DeKalb . . . . .        | DeKalb Agricultural Assoc.<br>Inc., Route 2<br>Lubbock, Texas              |
| Dorman . . . . .        | Dorman Seed Company<br>Lubbock, Texas                                      |
| Excel . . . . .         | Excel Seed Company<br>P. O. Box 1629<br>Plainview, Texas                   |
| Funk's . . . . .        | Louisiana Seed Co., Inc.<br>P. O. Box 1867<br>Plainview, Texas             |
| Ga. . . . .             | Department of Agronomy<br>Georgia Station<br>Experiment, Georgia           |
| McNair . . . . .        | McNair Seed Company<br>P. O. Box 706<br>Laurinburg, North Carolina         |
| Niagara . . . . .       | Niagara Chemical Division<br>FMC Corporation<br>McAllen, Texas             |
| Northrup King . . . . . | Northrup King & Co.<br>P. O. Box 370<br>Richardson, Texas                  |
| Pennington . . . . .    | Cotton Hybrid Research, Inc.<br>P. O. Box 290<br>Madison, Georgia          |

|                        |  |
|------------------------|--|
| Pioneer . . . . .      | Pioneer Corn Company, Inc.<br>221 North Main Street<br>Tipton, Indiana |
| Golden Acres . . . . . | Taylor-Evans Seed Co.<br>P. O. Box 480<br>Tulia, Texas                 |
| Warner . . . . .       | George Warner Seed Co., Inc.<br>P. O. Box 1448<br>Hereford, Texas      |

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