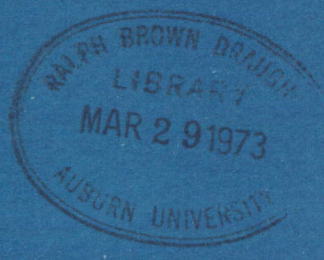


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AGRICULTURAL EXPERIMENT STATION / AUBURN UNIVERSITY  
R. Dennis Rouse, Director Auburn, Alabama

# 1972 ALABAMA GRAIN SORGHUM PERFORMANCE TESTS



DEPARTMENT of AGRONOMY and SOILS DEPARTMENTAL SERIES NO. 9 FEBRUARY 1973



## 1972 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 1972. One test, Headland, was not harvested due to poor stands resulting from dry soil at each of two plantings. 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 submitting entries in the 1972 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. Tests at the Black Belt and Upper Coastal Plain substations were planted with tractor-mounted cone planters; all others were hand planted. All tests were hand harvested. Location of the tests, plot size, and cultural practices are listed in Table 1.

### Yield

Yields were calculated from the weight of threshed grain from all heads in each plot. Yields are given in bushels per acre and were 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

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45 degrees. Seedheads of most of these plants would be missed by a combine; however, they are included in the yields in this report.

#### Plant Height

Plant height was 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 was measured from the terminal or 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 terminal 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 may be helpful in reducing damage from pests which attack the heads. A rating of one for tight heads and three for open heads was 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 the Lower Coastal Plain Substation and Monroeville Field in Tables 9 and 16, respectively. Another measure of maturity, per cent moisture, was obtained on August 2 for entries at the Black Belt Substation and is listed in Table 2.

#### 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 certain 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. Since bird damage on a field planting is usually less than on small plots, it is suggested that yield and bird damage both be considered when choosing a hybrid. Yields were not corrected for bird damage since it is an estimate and not an absolute value.

### 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 yield differences as real differences between hybrids. These small differences may be caused by slight differences in soil, fertility, diseases, and other factors. Data for 3, 2, and 1 year for the Black Belt, Gulf Coast, and Lower Coastal Plain are presented in Tables 2-4, 5-7, and 8-10, respectively. Data from 2 and 1 year for late plantings at the Upper Coastal Plain are shown in Tables 11 and 12, respectively. Two year data from Prattville and Monroeville are shown in Tables 13-14 and 15-16, respectively. One year data for an early planting at the Upper Coastal Plain is shown in Table 17.

### ACKNOWLEDGMENT

Performance trials were conducted in cooperation with the following substation superintendents whose help is gratefully acknowledged: L. A. Smith, Black Belt; H. F. Yates, Gulf Coast; V. L. Brown, Lower Coastal Plain; R. A. Moore, Upper Coastal Plain; E. L. Carden, Monroeville Field; and F. T. Glaze, Prattville Field. A special thanks to Mr. James Powell for furnishing land and labor for the test at Prattville, and to Dr. R. T. Gudauskas, Department of Botany and Microbiology, for the charcoal rot ratings at Prattville.

Table 1. Locations and Procedures for 1972 Grain Sorghum Tests

	Black Belt	Gulf Coast	Lower Coastal Plain	Upper Coastal Plain		Prattville	Monroeville Field
				early	late		
Planting date:	4-14	5-23	5-5	5-5	6-21	6-30	5-18
Seeding rate (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	40	40	42
Row length (ft)	16	20	20	16	16	16	16
Replications (No.)	4	4	4	4	4	4	4
Nitrogen rate (lb N/A)	68	116	116	115	115	106	100
Herbicide:							
Kind	Atrazine <sup>1/</sup>	None	None	None	None	None	None
Rate (lb/A)	3	-	-	-	-	-	-
Method	Broadcast	-	-	-	-	-	-

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

Table 2. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup> Bu/A	Lodging Pct.	Height Ft.	Head exsertion <sup>3/</sup> In.	Head type <sup>4/</sup> Rating	Estimated bird damage Pct.	Moisture <sup>5/</sup> in heads
								Pct.
Funk's	BR-79	87.7	0	4.1	2.8	2.5	0	36
----	GA. 615	87.4	5	4.1	2.3	2.5	6	33
Pennington	Penngrain BR	80.2	6	4.1	2.1	2.5	2	34
DeKalb	BR-64	77.5	0	4.4	3.8	2.5	0	41
ACCO	R-1093	73.0	0	3.7	3.0	2.5	3	29
Funk's	BR-630	72.7	0	3.5	2.2	2.4	3	35
Warner'	758	71.2	2	3.7	1.7	2.5	0	38
McNair	546	70.5	0	3.4	2.4	2.0	0	27
Funk's	HW 3360	69.4	0	3.3	2.2	2.9	1	42
Dorman	BR-100	68.9	7	3.9	2.6	2.4	10	32
----	AKS 614	66.5	18	3.8	3.4	2.4	7	31
----	AKS 663	66.2	0	4.2	2.6	3.0	2	43
Pioneer	BR-804	66.0	3	3.5	1.7	2.4	1	22
Golden Acres	T.E. Bird-A-Boo	65.4	5	3.4	2.1	1.8	12	29
Funk's	G522	64.6	0	3.3	1.1	1.9	8	44
Asgrow	Bravis R	62.3	0	3.7	4.9	2.5	8	28
DeKalb	E-59	61.7	0	3.5	2.0	1.9	7	45
Excel	Bird Go-A	61.4	2	3.9	1.6	2.5	0	41
Niagara	ORO	59.3	0	3.3	1.3	1.8	20	45
McNair	880	57.2	0	3.6	1.7	1.3	0	46
Niagara	Shoo-Bird	55.9	0	3.3	2.9	2.1	2	32
ACCO	R-1090	55.0	0	3.7	3.3	2.1	53	40
Asgrow	Double TX	53.8	0	4.2	2.5	1.3	46	42
McNair	654	51.7	0	4.0	2.7	1.6	62	49
DeKalb	X-1673	51.5	0	3.4	2.4	1.4	0	43
Golden Acres	T.E. Y-101	50.6	0	3.6	2.4	1.8	32	51

<sup>1/</sup> Planted: April 14, 1972

<sup>2/</sup> Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

<sup>3/</sup> Measured from terminal leaf to base of the head.

<sup>4/</sup> 1 = tight; 2 = medium;

3 = loose.

<sup>5/</sup> Sampled: August 2, 1972

Table 3. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Black Belt Substation, 1971-72

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage	Harvest
		Bu/A	Pct.	Ft.	In.	Rating	Pct.	Date
Funk's	BR-79	63.0	0	4.3	4.9	2.3	0	8-16
----	GA. 615	62.6	2	4.3	4.4	2.3	3	8-14
Pennington	Penngrain BR	59.2	3	4.4	4.3	2.3	1	8-12
DeKalb	BR-64	57.2	0	4.7	7.1	2.3	1	8-19
Warner	758	55.5	1	3.8	3.4	2.8	0	8-12
ACCO	R-1093	53.1	0	3.9	4.5	2.8	1	8- 8
Dorman	BR-100	53.1	3	4.0	4.8	2.2	5	8-14
Funk's	BR-630	51.7	0	3.7	4.3	2.2	1	8-12
----	AKS 614	51.3	9	4.0	5.0	2.2	3	8-15
----	AKS 663	51.1	0	4.4	4.8	3.0	5	8-17
Golden Acres	T.E.Bird-A-Boo	49.9	2	3.5	3.6	2.4	6	8-15
Asgrow	Bravis R	49.1	0	3.8	5.7	2.3	4	8-11
Pioneer	BR-804	49.1	1	3.5	3.6	2.7	0	8-16
McNair	546	48.9	0	3.6	4.2	2.5	0	8- 6

1/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

2/ Measured from terminal leaf to base of the head.

3/ 1 = tight; 2 = medium; 3 = loose.



Table 4. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Black Belt Substation  
1970-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Dorman	BR-100	59.7	1	3.9	4.5	1.2	3
Funk's	BR-79	59.5	0	4.3	4.4	2.6	0
---	GA. 615	55.0	1	4.1	3.4	2.1	2
Pennington	Penngrain BR	54.2	1	4.2	3.9	2.6	1
Asgrow	Bravis R	53.8	0	3.7	5.1	2.6	3
Golden Acres	T.E.Bird-A-Boo	53.5	1	3.4	3.2	2.7	4
DeKalb	BR-64	48.6	0	4.7	6.3	2.1	0
---	AKS 614	47.8	4	3.9	4.7	2.3	3
McNair	546	45.3	0	3.5	3.1	2.5	0
Funk's	BR-630	44.2	0	3.6	3.1	2.6	1

<sup>1/</sup> Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

<sup>2/</sup> Measured from terminal leaf to base of the head.

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

Table 5. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup> Bu/A	Lodg- ing Pct.	Height In.	Head	Head type <sup>4/</sup> Rating	Estimated
					exser- tion <sup>3/</sup> In.		bird damage Pct.
Funk's	BR-79	70.2	5	4.9	5.3	3.0	9
DeKalb	BR-64	67.3	9	5.0	5.0	3.0	9
Frontier	409	67.0	6	4.1	4.3	3.0	0
Pennington	Penngrain BR	66.9	9	4.6	3.8	3.0	4
Asgrow	Bravis R	65.7	9	4.3	4.8	3.0	1
ACCO	R-1093	64.5	17	4.3	4.0	3.0	5
McNair	546	63.9	5	3.9	4.3	3.0	5
Funk's	BR-630	63.0	4	3.9	4.5	3.0	1
---	GA. 615	63.0	10	4.5	3.8	2.8	5
Golden Acres	T.E.Bird-A-Boo	62.3	17	3.8	4.5	3.0	2
Niagara	Shoo-Bird	62.0	6	3.8	3.3	3.0	0
McNair	880	60.8	4	3.8	3.5	1.0	3
Pioneer	BR-804	60.1	18	4.0	3.8	3.0	4
Funk's	G-522	59.2	1	3.9	2.8	2.0	31
Excel	Bird Go-A	58.6	10	4.1	3.8	3.0	5
Golden Acres	T.E. Y-101	58.0	1	3.8	3.8	2.0	16
---	AKS 614	57.8	9	4.4	3.5	3.0	3
---	AKS 663	57.1	15	4.8	5.5	3.0	7
Dorman	BR-100	57.1	10	4.3	4.0	3.0	3
Frontier	412	53.7	1	3.6	3.3	2.0	26
Warner	758	53.0	9	4.0	3.8	2.3	3
Niagara	Oro	52.9	1	3.8	3.5	2.0	33
DeKalb	E-59	52.0	1	4.1	4.0	2.0	37
Excel	733	50.6	1	3.8	3.8	2.3	33
Excel	808	48.2	2	4.1	3.0	2.0	50
Frontier	402	38.7	2	4.1	3.5	1.0	38
McNair	654	36.2	2	4.3	4.3	2.3	63
Excel	811A	32.4	1	4.5	3.5	2.0	72
Asgrow	Dorado M	31.7	2	4.7	6.5	2.0	68
Asgrow	Double TX	26.1	5	4.8	5.3	1.0	65
Niagara	ORO-T	20.1	0	5.0	3.8	2.0	78

1/ Planted: May 23, 1972

2/ Yields adjusted to 14% moisture and 56 lb. per bushel, not adjusted for bird damage.

3/ Measured from terminal leaf to base of the head.

4/ 1 = tight; 2 = medium; 3 = loose.

Table 6. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Gulf Coast Substation, 1971-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exsertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage
		Bu/A	Pct.	In.	In.	Rating	Pct.
Funk's	BR-79	63.3	3	4.5	5.1	3.0	4
DeKalb	BR-64	60.0	4	4.6	5.8	3.0	5
Funk's	G-522	59.8	0	3.8	3.4	2.0	28
Pennington	Penngrain BR	58.9	5	4.3	3.9	3.0	2
Asgrow	Bravis R	58.6	5	4.0	4.4	3.0	0
Funk's	BR-630	57.2	2	3.7	4.3	3.0	0
---	GA. 615	57.1	6	4.3	3.9	2.9	2
McNair	546	56.4	3	3.6	4.4	3.0	2
McNair	880	54.6	2	3.9	3.8	1.0	1
Dorman	BR-100	52.9	6	4.1	4.8	3.0	1
Niagara	ORO	52.9	0	3.7	3.8	2.0	26
Golden Acres	T.E.Bird-A-Boo	52.4	10	3.6	4.5	3.0	1
---	AKS 614	52.2	6	4.1	4.0	3.0	1
Excel	Bird-Go-A	51.8	5	3.9	3.9	3.0	2
Warner	758	48.9	5	3.8	3.9	2.6	1
Asgrow	Dorado M	42.3	1	4.3	5.8	2.0	50

1/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

2/ Measured from terminal leaf to base of the head.

3/ 1 = tight,; 2 = medium; 3 = loose.

Table 7. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Gulf Coast Substation, 1970-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exsertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
DeValb	BR-64	61.9	2	4.6	5.6	3.0	3
Funk's	G-522	61.7	0	3.6	2.9	2.0	39
Funk's	BR-79	59.6	1	4.4	4.8	3.0	5
Pennington	Penngrain BR	58.5	3	4.2	2.9	3.0	1
Asgrow	Bravis R	57.2	2	4.0	4.2	3.0	0
McNair	546	56.8	2	3.6	3.7	3.0	1
---	AKS 614	53.7	3	4.2	4.0	3.0	0
---	GA. 615	53.4	4	4.1	3.9	2.9	1
Golden Acres	T.E.Bird-A-Boo	52.6	7	3.5	3.8	3.0	0
Niagara	ORO	50.5	0	3.6	3.1	2.0	38
Warner	758	50.1	3	3.8	2.9	2.8	0
Funk's	BR-630	49.7	2	3.5	3.9	3.0	0
Dorman	BR-100	39.7	3	4.1	4.1	3.0	0

<sup>1/</sup> Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

<sup>2/</sup> Measured from terminal leaf to base of the head.

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

Table 8. Some Characteristics of Grain Sorghum Hybrids Tested at the Lower Coastal Plain Substation, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup>	Lodg- ing	Height	Head exser- tion <sup>3/</sup>	Head type <sup>4/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Excel	Bird Go-A	88.3	0	4.8	8.0	3.0	0
Funk's	BR-630	84.3	0	4.4	9.0	3.0	0
Pennington	Penngrain BR	84.0	0	5.3	9.8	3.0	0
---	GA. 615	80.1	0	5.3	9.5	3.0	0
Golden Acres	T.E. Bird-A-Boo	79.9	0	4.1	8.8	3.0	0
McNair	546	79.8	0	4.5	9.0	3.0	0
Funk's	BR-79	75.7	0	5.3	10.3	3.0	0
---	AKS 614	72.4	0	4.4	8.8	2.8	0
Pioneer	BR-804	72.0	0	4.3	9.0	2.8	0
---	AKS 663	70.6	0	5.1	9.5	3.0	0
Pioneer	XB 913	70.3	0	4.0	8.3	2.3	0
Warner	758	70.3	0	4.6	8.5	3.0	0
Niagara	Shoo-Bird	70.1	0	3.8	7.0	3.0	0
ACCO	R-1093	69.2	0	4.7	9.5	3.0	0
Dorman	BR-100	69.2	0	4.6	9.5	2.8	0
Asgrow	Bravis R	67.0	0	4.2	8.0	3.0	0
McNair	880	50.8	0	4.5	9.0	1.3	9
McNair	760	41.8	0	4.6	9.0	1.0	31
DeKalb	BR-64	26.4	0	5.4	10.3	1.8	5
Pioneer	XB 935	25.2	0	5.5	10.3	2.0	1
Asgrow	Double TX	13.5	0	5.1	9.5	1.0	40
Niagara	ORO	9.9	0	4.2	9.3	1.8	70
McNair	654	8.6	0	4.7	9.8	2.0	86
Funk's	G-522	8.3	0	4.2	8.8	1.8	71
DeKalb	E-59	8.2	0	4.5	10.5	2.3	80
Pioneer	8417	7.6	0	4.3	9.0	2.8	72
Golden Acres	T.E. Y-101	7.1	0	4.3	8.5	2.0	52
Asgrow	Dorado M	5.6	0	4.9	10.0	2.3	80
McNair	650	4.0	0	4.3	10.0	2.0	94
Golden Acres	T.E. Total	3.4	0	5.2	10.8	2.5	93
Niagara	ORO-T	3.3	0	5.5	10.3	1.3	71

1/ Planted: May 5, 1972

2/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

3/ Measured from terminal leaf to base of the head.

4/ 1 = tight; 2 = medium; 3 = loose.

Table 9. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Lower Coastal Plain Substation, 1971-1972

Brand name	Hybrid	Yield <sup>1/</sup> Bu/A	Lodging Pct.	Height Ft.	Head exsertion <sup>2/</sup> In.	Days	Head type <sup>4/</sup> Rating	Estimated
						to mid-bloom <sup>3/</sup> No.		bird damage Pct.
Funk's	BR-79	72.2	5	5.1	11.6	59	2.8	0
Excel	Bird Go-A	71.1	0	4.4	10.0	57	2.8	0
McNair	546	70.6	0	4.3	12.0	57	3.0	0
----	AKS 614	70.2	2	4.6	11.4	55	2.6	0
Pennington	Penngrain BR	70.2	2	5.1	11.9	57	2.8	0
----	GA. 615	69.5	2	5.1	12.3	57	2.5	2
Golden Acres	T.E. Bird-A-Boo	66.9	0	4.0	11.9	54	3.0	0
Funk's	BR-630	66.1	0	4.1	11.5	56	2.8	2
Dorman	BR-100	64.7	2	4.6	12.3	55	2.4	1
Warner	758	63.0	1	4.4	10.8	56	2.8	0
Asgrow	Bravis R	59.0	0	4.1	12.0	55	3.0	0
McNair	880	38.5	0	4.3	11.0	64	1.1	7
DeKalb	BR-64	37.0	0	5.7	14.1	63	2.1	7
Niagara	ORO	26.8	0	4.0	10.6	55	1.6	38
Asgrow	Dorado M	20.8	0	4.9	12.0	60	2.1	71
Golden Acres	T.E. Total	18.3	0	5.0	12.9	61	2.3	73

1/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

2/ Measured from flag leaf to base of the head.

3/ 1 year data, 1971.

4/ 1 = tight; 2 = medium; 3 = loose.

Table 10. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Lower Coastal Plain Substation, 1970-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exsertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Funk's	BR-630	75.4	0	3.4	7.9	2.9	1
Funk's	BR-79	72.6	3	4.2	8.6	2.9	0
Pennington	Penngrain BR	72.1	1	4.1	8.1	2.9	0
---	AKS 614	71.7	1	3.7	7.7	2.8	0
---	GA. 615	71.1	1	4.1	8.4	2.8	1
Asgrow	Bravls R	67.5	0	3.6	8.4	3.0	0
McNair	546	67.1	0	3.6	8.0	3.0	0
Golden Acres	T.E.Bird-A-Boo	66.9	0	3.5	8.3	3.0	0
Dorman	BR-100	57.2	1	3.8	8.8	2.7	0
Niagara	ORO	52.0	0	3.3	6.8	1.3	24
DeKalb	BR-64	49.6	0	4.7	10.7	2.1	3

1/ Yield adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

2/ Measured from terminal leaf to base of the head.

3/ 1 = tight; 2 = medium; 3 = loose.

Table 11. Yield and Other Characteristics of Late Planted Grain Sorghum Hybrids  
at the Upper Coastal Plain Substation, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup>	Lodging	Height	Head exsertion <sup>3/</sup>	Head type <sup>4/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
DeKalb	BR-64	61.7	0	4.3	6.3	2.3	0
Niagara	Shoo-Bird	60.0	0	2.8	3.3	2.5	0
ACCO	R-1093	58.8	11	3.3	4.0	3.0	0
Dorman	BR-100	58.6	10	3.7	4.5	2.0	0
Funk's	BR-79	58.4	61	3.9	5.3	2.5	0
----	AKS 614	58.0	7	3.6	5.0	2.0	0
----	AKS 663	57.4	0	3.2	1.8	3.0	0
McNair	546	57.1	1	3.1	3.0	2.5	0
Excel	Bird-Go-A	57.0	5	3.6	3.3	2.8	0
Golden Acres	T.E.Bird-A-Boo	56.5	17	3.1	4.5	3.0	0
Funk's	BR-630	56.1	8	3.1	4.5	2.5	0
Golden Acres	T.E. Y-101	55.8	0	2.8	2.3	2.0	0
Asgrow	Bravis R	55.1	2	3.2	4.8	2.5	0
Pennington	Penngrain BR	54.7	58	3.9	4.8	2.5	0
Warner	758	54.7	22	3.4	2.8	2.8	0
----	GA. 615	54.6	44	3.6	3.3	2.0	0
Niagara	ORO-T	54.2	37	4.1	5.3	1.8	15
Asgrow	Dorado M	52.8	1	3.7	5.0	2.0	10
Pioneer	BR-804	52.7	16	2.9	2.8	2.5	0
DeKalb	E-59	51.5	0	3.2	3.8	1.5	5
Funk's	G-522	50.2	0	3.2	3.5	1.8	0
Niagara	ORO	47.3	0	2.6	2.8	1.8	7
McNair	654	47.0	12	3.6	4.0	1.8	15
Asgrow	Double TX	46.0	5	4.1	3.8	1.0	10
McNair	880	44.2	0	2.9	1.5	1.0	0

1/ Planted: June 21, 1972.

2/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

3/ Measured from terminal leaf to base of the head.

4/ 1 = tight; 2 = medium; 3 = loose.



Table 12. Yield and Other Characteristics of Late Planted Grain Sorghum Hybrids  
Tested Two Years at the Upper Coastal Plain Substation, 1971-1972

Brand Name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exsertion <sup>2/</sup>	Head type <sup>3/</sup>
		Bu/A	Pct.	Ft.	In.	Rating
ACCO	R-1093	48.4	5	3.2	3.5	2.5
Funk's	BR-630	44.1	4	2.9	2.8	2.5
McNair	546	43.7	3	3.0	2.5	2.5
---	AKS 614	39.1	11	3.3	4.0	2.0
Dorman	BR-100	38.6	7	3.4	3.3	2.0
Pioneer	BR-804	38.6	8	2.9	2.9	2.3
Pennington	Penngrain BR	37.7	31	3.6	4.4	2.3
Golden Acres	T.E. Bird-A-Boo	37.6	16	2.8	3.3	2.8
Warner	758	37.2	14	3.1	2.4	2.6
Funk's	BR-79	35.2	33	3.4	4.1	2.3
Asgrow	Bravis R	34.7	1	2.8	3.9	2.3
---	GA. 615	34.5	24	3.3	2.6	2.0
---	AKS 663	32.6	0	3.0	2.4	2.5

<sup>1/</sup>Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

<sup>2/</sup>Measured from terminal leaf to base of the head.

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

Table 13. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at Prattville, Alabama, 1972<sup>1/</sup>

Brand Name	Hybrid	Yield <sup>2/</sup> Bu/A	Lodging Pct.	Height Ft.	Head		Charcoal rot <sup>5/</sup> Pct.
					exser- tion <sup>3/</sup> In.	Head type <sup>4/</sup> Rating	
Asgrow	Dorado M	64.6	17	4.4	5.0	3.0	20
Niagara	Shoo-Bird	60.3	3	3.5	3.8	3.0	70
Golden Acres	T.E. Y-101	59.2	1	3.8	5.0	3.0	50
Funk's	G-522	59.0	1	3.6	3.5	3.0	25
Dorman	BR-100	58.5	23	4.3	6.0	3.0	60
Niagara	ORO	56.7	3	3.6	4.3	3.0	70
ACCO	R-1093	55.9	4	4.2	5.0	3.0	80
Funk's	BR-630	55.8	17	3.8	4.5	3.0	90
Excel	811A	55.6	9	4.0	3.5	2.5	80
Pioneer	BR-804	55.6	55	3.8	6.5	3.0	50
Dekalb	E-59	55.0	0	4.0	7.0	3.0	20
---	AKS 614	52.3	43	4.2	6.0	2.5	40
Excel	808	49.9	10	4.0	4.3	3.0	25
Frontier	412	49.0	1	3.6	5.0	3.0	50
Asgrow	Bravis R	47.7	13	4.2	7.5	3.0	20
Dekalb	BR-64	46.5	0	5.2	9.5	1.5	5
McNair	654	46.3	16	4.0	5.0	3.0	80
Frontier	402	44.4	1	4.0	7.0	1.0	10
Excel	Bird-Go-A	43.5	18	3.9	4.0	3.0	80
Golden Acres	T.E. Bird-A-Boo	42.7	27	3.8	4.3	3.0	40
Excel	733	41.5	1	3.5	3.5	3.0	30
Asgrow	Double TX	40.9	10	4.6	5.5	1.0	70
Funk's	BR-79	39.6	43	4.5	6.5	3.0	10
---	GA. 615	39.1	36	4.1	5.0	3.0	50
Pennington	Penngrain BR	38.6	81	4.4	3.0	3.0	90
---	AKS 663	38.3	24	4.3	6.0	3.0	5
Frontier	409	37.3	23	3.5	4.5	3.0	80
McNair	880	37.3	1	3.6	5.5	1.5	10
McNair	546	36.8	11	3.8	3.8	3.0	10
Warner	758	29.6	15	4.1	4.0	2.5	25

<sup>1/</sup>Planted: June 30, 1972 on farm of Mr. James Powell.

<sup>2/</sup>Yields adjusted to 14% moisture and 56 lb. per bushel.

<sup>3/</sup>Measured from terminal leaf to base of the head.

<sup>4/</sup>1 = tight, 2 = medium, 3 = loose.

<sup>5/</sup>Macrophomina phaseoli (Maubl.) Ashby, per cent of plants diseased on October 12, 1972.

Table 14. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at Prattville, Alabama, 1971-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exertion <sup>2/</sup>	Head type <sup>3/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Funk's	BR-630	47.9	8	3.5	3.0	3.0	6
Dorman	BR-100	47.6	11	3.9	4.0	3.0	11
---	AKS 614	46.1	21	3.9	3.8	2.8	9
Pioneer	BR-804	45.0	27	3.5	4.5	3.0	11
Golden Acres	T.E. Bird A Boo	43.9	13	3.6	3.1	3.0	2
Dekalb	BR-64	36.1	0	4.6	6.8	2.3	17
---	GA. 615	34.6	18	3.9	3.3	3.0	20
Pennington	Penngrain BR	33.6	40	3.9	2.5	3.0	8
McNair	546	32.1	5	3.6	2.9	2.8	9
Funk's	BR-79	30.3	21	4.2	4.5	3.0	29
Golden Acres	T.E. Y-101	29.6	0	3.4	4.0	2.0	50
Warner	758	29.5	7	3.7	3.0	2.8	7
Niagara	ORO	28.3	1	3.7	3.1	2.0	50
Dekalb	E-59	27.5	0	3.6	4.8	2.0	50
Asgrow	Double TX	20.4	5	4.1	4.3	1.0	50
---	AKS 663	19.2	12	4.1	5.0	3.0	50

<sup>1/</sup>Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

<sup>2/</sup>Measured from terminal leaf to base of the head.

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

Table 15. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at Monroeville Field, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup> Bu/A	Lodging Pct.	Height Ft.	Head exsertion <sup>3/</sup> In.	Estimated stand Pct.	Head type <sup>4/</sup> Rating	Estimated bird damage Pct.
Dorman	BR-100	70.9	0	4.4	6.3	93.8	3	0
Funk's	BR-79	67.1	2	4.7	5.5	87.0	3	0
Pennington	Penngrain BR	63.3	1	4.5	3.8	91.3	3	0
----	AKS 614	62.3	2	4.6	5.8	94.5	3	0
ACCO	R-1093	61.6	0	4.1	5.8	92.5	3	0
Golden Acres	T.E. Bird-A-Boo	60.3	0	3.8	5.0	93.3	3	0
Golden Acres	T.E. Y-101	60.3	0	3.6	3.5	83.8	3	5
Niagara	Shoo-Bird	59.0	0	3.5	3.5	97.0	3	0
Asgrow	Bravis R	58.7	0	4.3	5.0	94.8	3	0
----	AKS 663	57.3	0	4.3	3.3	88.8	3	0
Asgrow	Double TX	57.0	0	4.4	4.0	83.8	2	6
Pioneer	BR-804	56.2	0	4.0	4.8	96.0	3	0
DeKalb	BR-64	55.3	0	5.0	5.8	92.0	3	0
Excel	Bird Go-A	54.5	0	4.1	3.3	85.8	3	0
Funk's	BR-630	54.2	0	3.7	2.8	80.8	3	0
----	GA. 615	53.7	1	4.2	4.8	78.3	3	0
Pioneer	XB 935	53.0	0	4.9	3.3	92.5	2	0
Niagara	ORO	52.2	0	3.6	4.3	88.8	3	3
McNair	546 <sup>1/2</sup>	51.3	0	3.6	3.8	88.3	3	0
Asgrow	Dorado M	50.7	0	4.7	5.0	92.5	3	26
Funk's	G-522	49.7	0	3.4	3.0	90.0	2	10
Pioneer	XB 913	49.6	0	3.6	4.0	70.0	2	3
Warner	758	46.2	0	3.9	3.8	83.3	3	0
McNair	650	45.8	0	3.6	2.0	65.0	3	15
DeKalb	E-59	41.1	0	3.8	3.0	90.0	3	29
McNair	654	37.6	0	4.0	3.0	80.8	3	42
McNair	880	35.9	0	3.8	3.3	60.0	2	18
McNair	760	35.8	0	3.7	1.3	47.5	3	2
Pioneer	5417	30.2	0	3.8	1.5	55.0	3	38
Golden Acres	T.E. Total	28.3	0	4.1	4.0	79.5	3	61
Niagara	ORO-T	18.3	0	5.0	5.5	98.5	3	81

<sup>1/</sup> Planted: May 18, 1972

<sup>2/</sup> Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage

<sup>3/</sup> Measured from terminal leaf to base of the head.

<sup>4/</sup> 1 = tight; 2 = medium; 3 = loose.

Table 16. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at Monroeville Field, 1971-1972

Brand name	Hybrid	Yield <sup>1/</sup>	Lodging	Height	Head exertion <sup>2/</sup>	Days to mid bloom <sup>3/</sup>	Head type <sup>4/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	No.	Rating	Pct.
Dorman	BR-100	54.7	1	4.1	3.6	55	3.0	6
Funk's	BR-79	54.2	1	4.2	2.8	58	3.0	6
---	AKS 614	51.7	1	4.0	2.9	56	2.5	0
ACCO	R-1093	50.6	0	3.7	3.2	57	3.0	1
Golden Acres	T.E. Bird-A-Boo	49.1	0	3.5	2.5	55	2.8	0
Pennington	Penngrain BR	48.1	0	4.1	1.9	56	3.0	6
Pioneer	BR-804	46.7	0	3.5	2.4	57	3.0	2
McNair	546	46.2	0	3.4	1.9	55	3.0	12
Asgrow	Bravis R	45.9	0	3.3	2.8	56	2.5	2
Funk's	BR-630	45.2	0	3.4	1.4	55	3.0	2
DeKalb	BR-64	43.6	0	4.5	4.9	61	2.8	10
---	GA. 615	43.0	3	3.9	2.4	57	3.0	4
Warner	758	41.6	3	3.7	1.9	55	3.0	0
---	AKS 663	37.1	0	4.0	3.1	62	3.0	30
Asgrow	Double TX	28.5	0	3.9	2.3	61	2.5	53
Niagara	ORO	26.1	0	3.2	2.1	59	2.5	51
DeKalb	E-59	20.6	0	3.4	2.0	60	2.0	64
Niagara	ORO-T	9.2	0	4.3	3.3	60	2.0	90

1/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

2/ Measured from terminal leaf to base of the head.

3/ Data from 1971 only.

4/ 1 = tight; 2 = medium; 3 = loose.

Table 17. Yield and Other Characteristics of Early Planted Grain Sorghum Hybrids at the Upper Coastal Plain Substation, 1972<sup>1/</sup>

Brand name	Hybrid	Yield <sup>2/</sup>	Lodging	Height	Head exertion <sup>3/</sup>	Head type <sup>4/</sup>	Estimated bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
DeKalb	BR-64	102.9	0	4.3	4.0	2.3	0
ACCO	R-1090	102.5	1	3.3	2.3	2.5	0
Pennington	Penngrain BR	102.0	21	4.0	2.0	2.5	0
Funk's	G-522	99.4	0	3.1	2.0	2.0	0
Dorman	BR-100	97.5	5	4.0	3.5	2.5	0
---	AKS 614	97.4	5	3.8	3.3	2.8	0
Funk's	HW-3360	97.4	0	3.6	3.5	3.0	0
Asgrow	Double TX	95.9	3	3.9	3.0	1.3	10
ACCO	R-1093	95.5	1	3.7	3.0	3.0	0
---	GA. 615	95.5	26	4.0	2.3	2.8	0
Funk's	BR-79	95.3	14	4.2	3.3	2.3	0
Niagara	ORO	94.5	1	3.2	2.3	2.0	0
Asgrow	Dorado M	94.3	0	3.4	3.3	2.0	10
Niagara	ORO-T	93.4	1	3.9	3.3	2.0	11
Golden Acres	T.E. Y-101	93.3	1	3.0	2.0	1.8	10
Niagara	Early Oro	92.3	1	3.8	3.3	2.5	0
DeKalb	E-59	92.1	0	3.3	3.0	2.0	5
ACCO	R-1029	91.6	0	3.3	2.8	2.3	10
Asgrow	Bravis R	88.9	1	3.4	3.5	3.0	0
Excel	Bird Go-A	84.9	5	3.4	1.5	3.0	0
Warner	758	84.4	3	3.4	2.5	3.0	0
McNair	546	84.0	6	3.4	2.3	2.8	0
Pioneer	BR-804	81.1	9	3.1	2.3	2.0	0
Funk's	BR-630	80.8	2	3.3	2.5	2.8	0
McNair	654	79.7	6	3.6	2.5	2.0	13
Golden Acres	T.E. Bird-A-Boo	76.9	11	2.9	2.8	3.0	0
DeKalb	X-1673	76.5	0	2.9	1.3	1.0	0
Niagara	Shoo-Bird	75.6	0	2.9	2.0	3.0	0
---	AKS 663	71.3	0	3.1	3.0	3.0	0
McNair	880	66.0	0	3.1	1.8	1.3	0

1/ Planted: May 5, 1972.

2/ Yields adjusted to 14% moisture and 56 lb. per bushel; not adjusted for bird damage.

3/ Measured from terminal leaf to base of the head.

4/ 1 = tight; 2 = medium; 3 = loose.

## Agencies Furnishing Seed for the 1972 Grain Sorghum Tests

Entry	Source of seed
ACCO . . . . .	ACCO Seed P. O. Box 1630 Plainview, Texas
AKS . . . . .	Department of Agronomy University of Arkansas Fayetteville, Arkansas
Asgrow . . . . .	Asgrow Seed Company 1216 Logan Circle, N.W. Atlanta, Georgia
DeKalb . . . . .	DeKalb Agricultural Assoc. Inc., Route 2 Lubbock, Texas
Dorman . . . . .	Dorman Seed Company Lubbock, Texas
Excel . . . . .	Excel Seed Company P. O. Box 1629 Plainview, Texas
Frontier . . . . .	Frontier Hybrids, Inc. P. O. Box 42 Hutchinson, Kansas
Funk's . . . . .	Louisiana Seed Company, Inc. P. O. Box 1867 Plainview, Texas
GA . . . . .	Department of Agronomy Georgia Station Experiment, Georgia
McNair . . . . .	McNair Seed Company P. O. Box 706 Laurinburg, North Carolina
Niagara. . . . .	Niagara Chemical Division FMC Corporation McAllen, Texas
Northrup King. . . . .	Northrup King and Company P. O. Box 370 Richardson, Texas

Pennington. . . . . Cotton Hybrid Research, Inc.  
P. O. Box 290  
Madison, Georgia

Pioneer . . . . . Pioneer Corn Company, Inc.  
221 North Main Street  
Tipton, Indiana

Golden Acres. . . . . Taylor-Evans Seed Co.  
P. O. Box 480  
Tulia, Texas

Warner. . . . . George Warner Seed Co., Inc.  
P. O. Box 1448  
Hereford, Texas