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Performance of Grain Sorghum Hybrids in Alabama, 1980

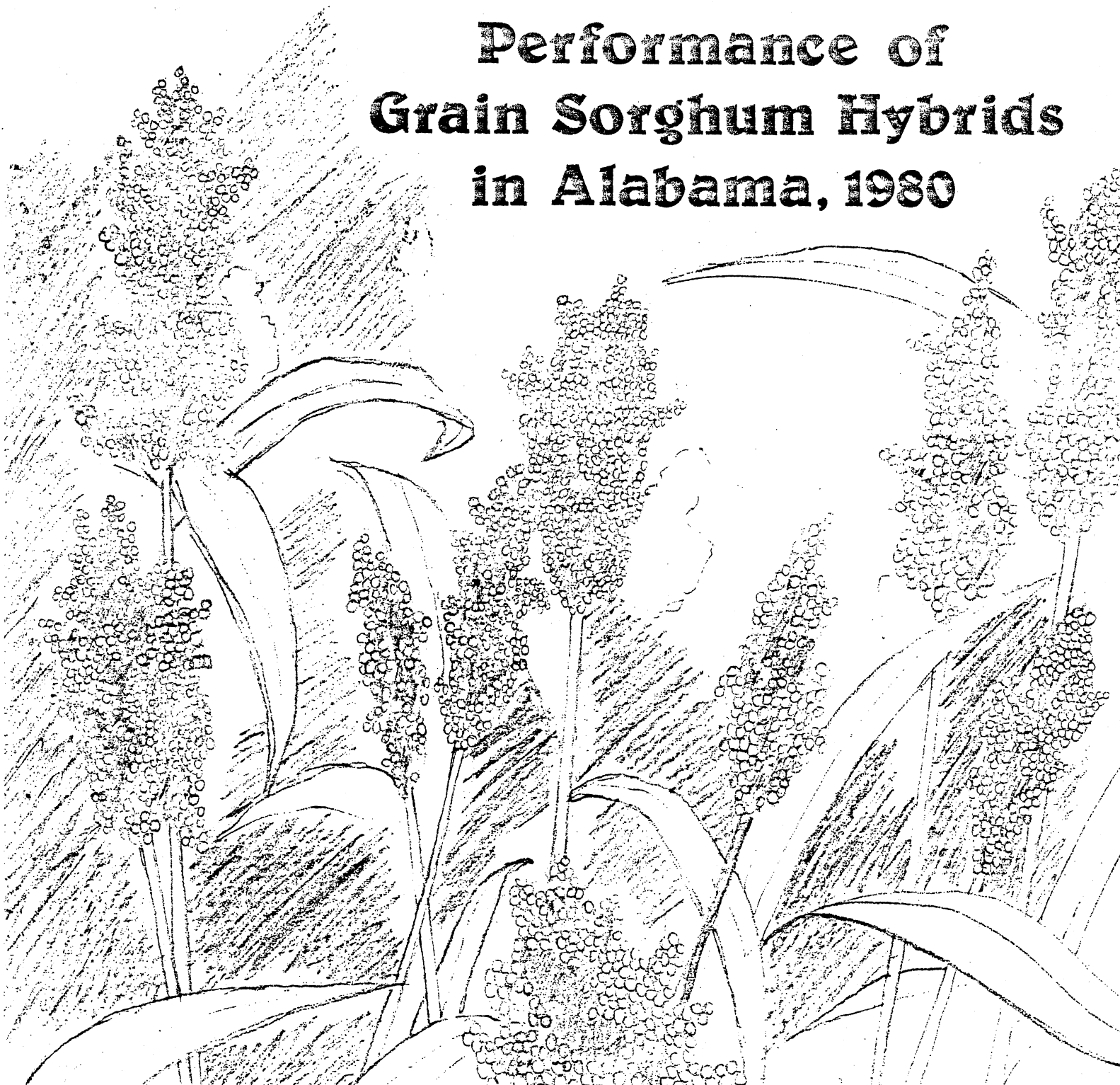


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Performance of Grain Sorghum Hybrids
in Alabama, 1980

Cliff Currier^{1/}

Introduction

Grain sorghum performance tests are conducted annually throughout Alabama by the Auburn University Agricultural Experiment Station. These tests give a relative comparison of hybrid performance under the conditions at a particular location. The performance of hybrids varies with location; therefore this report should be carefully studied before a hybrid is selected.

In 1980 tests were planted at seven locations. Test average grain yields of 70, 74, and 103 bu./A were obtained at Prattville, Monroeville, and Fairhope, respectively. Test average grain yields at other locations were less than 60 bu./A. Inadequate rainfall during the season was mainly responsible for reduced yields (table 1). Insect, bird, and disease damage was relatively light this year; although bird damage was high at Crossville. Only bird resistant hybrids were harvested at this location.

Experimental Procedures

Cultural practices were uniform for all hybrids within a given test. The experimental design for all tests was a randomized complete block with four replications. Plot sizes and cultural practices for each test are listed by location in tables 4, 6, 9, 12, 15, 18, and 21.

Sources of seed used in the tests are listed on pages 30 and 31.

Data

Yield

Grain yields are given in bushels per acre adjusted to 14% moisture

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at 56 pounds per bushel. At all locations yields were calculated from the weight of grain obtained from harvesting the whole plot. Plots at Crossville, Prattville, Headland, Monroeville, and Fairhope were harvested with a plot combine. At Winfield and Marion Junction plots were hand harvested and heads threshed with a plot combine.

Grain Damage Estimate

Visual estimates of grain damage were made at most locations. Estimates of grain damage can be used to indicate the amount of grain loss caused by birds, insects, and diseases. When estimates of grain damage are not shown, no significant grain damage occurred at that location during the year(s) involved.

Bird damage can be a major problem on small field plantings. In selecting a hybrid, consideration should be given to bird populations present in relation to the size of area to be planted. If bird damage is anticipated, hybrids with low estimates of grain damage should be used. One should keep in mind that bird resistant grain sorghum hybrids are more difficult to market and have lower feeding value than non-bird resistant grain sorghum hybrids.

Lodging

Lodging is given as the percent of plants broken or leaning at an angle of more than 45 degrees from vertical. The seedheads of most lodged plants would be missed by a combine. However, the heads of lodged plants are included in the yields of hand harvested plots.

Plant Height

Plant height was measured from the soil surface at the base of the plant to the tip of the head.

Head Exsertion

Head exsertion was measured from the collar of the flag leaf to the base of the head. Poor head exsertion may result in excessive green plant material in the harvested grain, and may cause damage to the lower

part of the head resulting from water accumulating at the base of the flag leaf.

Head Type

Open or loose heads may be important in the Southeastern United States. Open heads allow better air movement and faster drying of rain or dew. Open heads may be helpful in reducing damage from insects and diseases which attack the heads. A rating of 1 for tight heads and 3 for open or loose heads was used at all locations.

Mid-Bloom

One measure of relative maturity is the mid-bloom date. This is the date when approximately one-half of the heads in the plot are in bloom (showing anthers). Date of mid-bloom for entries at all locations is shown in tables 4, 6, 9, 15, 18, and 21.

Mid-bloom data from Marion Junction are not shown due to erratic plant emergence.

Selecting a Hybrid

The performance of hybrids varies among years and locations. Small yield differences between hybrids may be the result of slight differences in soil fertility and other factors. To aid in determining real differences between hybrids, a statistical procedure, analysis of variance, was performed on the data from each location. The L.S.D. (least significant difference) is given to determine real differences between hybrid yields for each location in 1980. When comparing hybrids, the yield difference between two hybrids is compared to the L.S.D. value. If the yield difference is greater than the L.S.D. value, then the two hybrids are considered to be significantly difference. The C.V., coefficient of variance, is a measure of uncontrolled variability within a test.

The list of acceptable hybrids is based on yield and lodging data.

Three-year averages are reviewed for each location. The acceptable hybrids list is tabulated by combining the location lists for each region. Since all acceptable hybrids are not equal in performance, a review of the data from several years at the testing location most similar to your situation is the most reliable method for selecting a hybrid best suited for your needs.

Acknowledgment

The performance trials were conducted in cooperation with the following substation and experiment field superintendents whose help is gratefully acknowledged: R.A. Moore, Upper Coastal Plain; J.T. Eason, Sand Mountain; L.A. Smith, Black Belt; J.A. Little, Lower Coastal Plain; J.G. Starling, Wiregrass; and E.L. Carden, Gulf Coast; (Substation) F.T. Glaze, Prattville; and J.A. Pitts, Monroeville; (Experiment Field). Thanks are expressed to W.H. Hearn and Mrs. Sally Bagwell for processing the data presented in this report. Appreciation is also expressed to Ms. Sherrie Sheppard for typing this report.

Table 1 . Monthly Rainfall Amounts Measured at the Grain Sorghum Testing Locations in 1980 .

Location	Monthly rainfall (inches)						
	Mar.	Apr.	May	June	July	Aug.	Sep.
Winfield	15.8	8.9	9.2	2.2	1.1	2.0	6.6
Crossville	16.9	6.0	6.5	0.8	1.3	1.6	10.0
Prattville	10.5	6.0	8.4	4.2	3.5	0.6	1.8
Marion Junction	11.8	6.2	8.1	1.7	5.1	2.2	1.9
Monroeville	11.5	11.4	10.1	7.8	3.3	3.7	4.7
Headland	15.9	6.5	7.1	5.4	2.0	3.8	2.3
Fairhope	11.6	13.5	9.6	13.8	4.1	1.3	5.3

Table 2 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Upper Coastal Plain Substation, Winfield, 1978-80

Brand name	Hybrid	Yield per acre Bu.	Lodging Pct.	Plant height Ft.	Head exsertion ^{1/} In.	Head type ^{2/} Rating
Surgro	ORO	56.9	1	2.9	1.7	2.3
Pennington	PENNGRAIN YE	55.5	5	2.9	1.8	2.2
Growers	GSA 1180	54.5	0	3.0	2.6	1.7
Coker	7675	54.1	2	3.1	1.4	1.5
Funk's	G-522DR	52.6	1	3.1	1.5	1.6
McCurdy	M51YG	52.4	2	2.9	1.8	2.1
Funk's	G-522A	52.1	3	2.9	1.6	2.1
Taylor Eyans	T-E Y101-R	52.0	2	3.0	1.8	1.8
Ring Around	808GB	50.7	0	3.1	1.7	1.9
Northup King	SAVANNA 5	50.5	18	3.9	4.3	1.3
Taylor Eyans	T-E DINERO	50.3	1	2.9	1.5	1.8
Growers	ML-135	49.9	2	3.0	1.6	2.1
Dekalb	BR-65+	48.2	0	3.4	3.5	1.3
Funk's	G-516BR	46.2	3	3.1	2.8	2.8
Growers	GSA 1334BR	45.9	5	3.0	2.5	2.8
Pioneer	B815	44.8	19	3.9	3.2	1.0

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

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

Table 3 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Upper Coastal Plain Substation, Winfield, 1979-80

Brand name	Hybrid	Yield per acre Bu.	Lodging Pct.	Plant height Ft.	Head exsertion ^{1/} In	Head type ^{2/} Rating
Coker	7675	59.7	1	2.9	1.5	1.3
Surgro	ORO XTRA	58.8	0	2.8	1.0	1.6
Pennington	PENNGRAIN YE	58.8	1	2.7	1.4	2.3
Funk's	G-522DR	57.5	0	3.0	1.3	1.4
Surgro	ORO	56.5	1	2.7	1.4	2.4
McCurdy	M51YG	55.4	1	2.7	1.5	2.0
Growers	GSA 1180	53.0	0	2.8	2.4	1.6
Funk's	G-522A	52.9	1	2.6	1.1	2.1
Taylor Evans	T-E Y101-R	52.0	0	2.7	1.1	1.8
Taylor Evans	T-E DINERO	51.3	0	2.7	1.1	1.8
Ring Around	733GB	50.9	1	2.7	1.1	1.8
Dekalb	BR-65+	50.4	0	3.0	2.8	1.0
Ring Around	808GB	50.3	0	2.8	1.3	2.0
Funk's	G-611	50.3	0	3.0	1.4	2.1
Growers	GSA 1290	50.2	0	2.6	1.5	1.4
Growers	ML-135	50.0	1	2.7	1.1	2.1
Northrup King	SAVANNA 5	49.8	15	3.4	2.6	1.0
Pioneer	B815	48.2	1	3.7	3.1	1.8
Ring Around	807	44.5	0	2.8	1.9	1.9
Growers	GSA 1334BR	44.1	1	2.8	2.4	3.0
Funk's	HW1762	43.1	1	2.6	2.0	3.0
Funk's	G-516BR	42.0	0	2.9	2.3	3.0

^{1/} Measured from terminal leaf to base of the head.

^{2/} 1 = tight; 2 = medium; 3 = loose.

Table 4 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Upper Coastal Plain Substation, Winfield, 1980

Brand Name	Hybrid	Yield per acre ^{1/}	Lodging	Plant height	Head exertion ^{2/}	Mid-bloom	Head type ^{3/}
		Bu.	Pct.	Ft.	In.	Date	Rating
Funk's	G-522DR	59.0	0	3.2	0.5	7/11	1.3
Surgro	ORO XTRA	58.9	1	3.1	0.8	7/12	2.0
Coker	7675	57.8	1	3.2	1.3	7/12	1.5
Surgro	ORO	55.7	2	3.0	0.8	7/11	2.3
Growers	GSA 1180	54.7	0	3.0	1.5	7/9	2.0
Dekalb	C-42Y+	53.0	0	3.3	2.3	7/7	2.0
McCurdy	M51YG	52.9	2	2.9	1.0	7/9	2.0
Pennington	PENNGRAIN YE	52.9	2	3.1	1.0	7/11	2.3
Funk's	G-516BR	52.0	1	3.3	2.0	7/9	3.0
Taylor Evans	T-E Y101-R	51.3	0	2.9	0.5	7/8	1.5
Funk's	G-611	51.0	0	3.3	0.3	7/12	2.0
Funk's	G-550	50.8	2	3.1	1.3	7/9	1.5
Growers	GSA 1334BR	50.6	3	3.1	1.8	7/7	3.0
Dekalb	BR-65+	50.4	0	3.2	1.3	7/14	1.0
Ring Around	733GB	50.3	1	2.1	0.8	7/10	1.5
Pioneer	BB15	50.1	1	4.3	2.0	7/13	1.8
Growers	ML-135	50.0	2	3.0	0.8	7/12	2.0
Growers	GSA 1290	49.9	0	2.9	0.8	7/11	1.3
Ring Around	807	49.7	0	3.1	1.0	7/12	1.5
Funk's	G-522A	49.4	1	3.0	0.8	7/11	2.0
Taylor Evans	T-E DINERO	48.9	1	3.0	0.5	7/13	2.0
Hunt	HIT-45	47.0	2	3.3	1.0	7/10	2.5
Northrup King	2670	46.7	10	3.5	1.5	7/10	2.0
Ring Around	808GB	46.0	0	3.1	1.0	7/11	2.0
Dekalb	BR-64	45.4	0	3.9	2.5	7/9	2.8
Northrup King	SAVANNA 5	44.8	29	3.8	1.8	7/10	1.0
Coker	7723	43.3	6	3.6	1.0	7/11	1.5
Funk's	HW1762	42.9	0	2.9	2.3	7/8	3.0
Hunt	HIT-345	40.4	8	3.2	0.8	7/10	2.5
McCurdy	M55YG	40.3	8	3.3	2.5	7/8	1.8
Test average;		50.0					
L.S.D. (.05)		7.8					
C.V. (%)		13.3					

^{1/} Whole plot yields adjusted to 14% moisture and 56 lb. per bushel. (No bird damage).

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

^{3/} 1 = tight; 2 = medium; 3 = loose.

Planted; April 24, 1980

Plot size; 2 rows, 20 feet long, 40-inch row spacing.

Nitrogen Rate: 120 lb.(N/A).

Herbicide: Milogard (Propazine).

Table 5 . Yield and Other Characteristics of Bird Resistant Grain Sorghum Hybrids Tested Two Years at the Sand Mountain Substation, Crossville, 1979-80

Brand Name	Hybrid	Yield per acre	Lodging Pct.	Plant height Ft.	Head Exsertion <u>1/</u> In.	Head <u>2/</u> Type Rating
Growers -----	GSA 1334BR	80.3	1	3.5	4.1	2.8
Funk's-----	G-516BR	79.9	1	3.6	4.1	2.9
Northrup King-----	SAVANNA 5	73.6	1	3.9	4.3	1.5
Pioneer-----	B815	73.5	0	4.0	4.0	2.0
Dekalb-----	BR-65+	71.1	0	3.8	4.8	1.5

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

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

Table 6 . Yield and Other Characteristics of Bird Resistant Grain Sorghum Hybrids Tested at the Sand Mountain Substation, Crossville, 1980

Brand Name	Hybrid	Yield per acre ^{1/}	Lodging	Plant height	Head exsertion ^{2/}	Mid-bloom	Head type ^{3/}
		Bu.	Pct.	Ft.	In.	Date	Rating
Pioneer-----	B815	61.7	0	3.9	3.0	7/11	2.0
Funk's-----	G-516BR	61.2	1	3.2	2.0	7/12	3.0
Grower's-----	GSA 1334BR	59.1	0	3.2	1.8	7/10	3.0
Dekalb-----	BR-64	55.7	0	3.9	2.8	7/13	2.8
Northrup King----	SAVANNA 5	55.6	1	3.5	3.0	7/11	2.0
Dekalb-----	BR-65+	55.3	0	3.4	2.8	7/12	2.0
Test average:		58.1					
L.S.D. (.05)		6.6					
C.V. (%)		9.7					

1/ Whole plot yields adjusted to 14% moisture and 56 lb. per bushel. (No bird damage).

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

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

Planted: April 22, 1980.

Plot size: 2 rows, 20 feet long, 36-inch row spacing.

Nitrogen rate: 120 lb. (N/A), split application.

Herbicide: Atrazine.

Insecticide: Diazinon.

Table 7 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at Prattville Experiment Field, Prattville, 1978-80

Brand name	Hybrid	Yield per	Lodging	Plant	Head	Head	Grain
		acre		height	exsertion	type ^{2/}	
		Bu.	Pct.	Ft.	In.	Rating	Pct.
Pioneer-----	B815	79.7	1	4.4	5.2	1.8	5
Growers-----	GSA 1334BR	79.2	0	3.8	3.5	3.0	2
Funk's-----	G-516BR	78.6	0	3.7	3.2	2.9	1
Dekalb-----	BR-65+	74.2	0	4.2	6.7	1.3	3
Funk's-----	G-522DR	73.0	1	3.8	3.3	1.6	14
Taylor Evans-----	T-E DINERO	71.8	0	3.7	3.7	1.5	32
Northrup King-----	SAVANNA 5	70.2	1	4.7	6.8	1.0	3
Dekalb-----	BR-64	69.9	2	4.6	6.6	2.7	6
Pennington-----	PENNGRAIN YE	69.0	0	3.6	3.5	2.2	12
Growers-----	ML-135	66.1	0	3.5	3.3	2.4	21
Funk's-----	G-522A	65.5	0	3.7	4.1	2.3	33
Taylor Evans-----	T-E Y101-R	62.4	0	3.5	4.2	1.8	15
Surgro-----	ORO-T	55.6	23	4.2	4.1	1.6	45

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

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

Table 8 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Prattville Experiment Field, Prattville, 1979-80.

Brand name	Hybrid	Yield per		Plant height	Head exertion ^{1/}	Head type ^{2/}	Grain damage estimate
		acre	Lodging				
		Bu.	Pct.	Ft.	In.	Rating	Pct.
Pioneer	B815	87.2	0	4.6	6.4	1.8	3
Coker	7675	85.1	0	3.9	5.3	1.6	13
Growers	GSA 1334BR	82.8	0	3.9	4.0	3.0	0
Funk's	G-516BR	82.5	0	3.8	4.0	3.0	1
Funk's	G-522DR	81.3	1	4.0	4.4	1.6	12
Dekalb	BR-64	79.8	0	4.7	7.5	2.9	1
Surgro	ORO-T XTRA	78.4	1	4.6	5.1	1.6	40
Taylor Evans	T-E DINERO	77.1	0	3.9	4.5	1.6	39
Dekalb	BR-65+	76.1	1	4.3	7.8	1.3	3
Surgro	ORO XTRA	76.0	0	3.9	5.1	1.5	23
Pennington	PENNGRAIN YE	74.7	0	3.6	4.1	2.1	8
Northrup King	SAVANNA 5	74.1	0	4.8	7.8	1.0	1
Funk's	G-611	72.2	0	4.1	5.3	1.9	32
Ring Around	733GB	71.9	0	3.8	5.5	1.9	31
Funk's	G-522A	70.1	0	3.8	4.9	2.5	33
Growers	ML-135	68.1	0	3.6	3.6	2.4	20
Taylor Evans	T-E Y101-R	66.0	0	3.6	5.0	2.0	10
Pioneer	8311	65.0	0	3.8	4.1	2.0	22
Surgro	ORO-T	61.9	0	4.4	5.1	1.8	45
McCurdy	M53YG	60.2	0	3.9	6.0	1.6	23
Dekalb	BR-45+	57.5	0	3.5	4.5	2.0	2
Funk's	HW1762	53.6	1	3.4	3.1	2.9	7

^{1/} Measured from the terminal leaf to base of the head.

^{2/} 1 = tight; 2 = medium; 3 = loose.

Table 9. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Prattville Experiment Field, Prattville, 1980

Brand name	Hybrid	Yield per	Lodging	Plant	Head	Mid-bloom	Head	Grain damage
		acre ^{1/}		height	exsertion ^{2/}		type ^{3/}	
		Bu.	Pct.	Ft.	In.	Date	Rating	Pct.
Funk's.....	G-516BR	82.7	0	3.9	5.0	7/1	3.0	1
Growers.....	GSA 1334BR	81.7	0	4.1	4.5	7/2	3.0	0
Funk's.....	G-522DR	80.2	2	3.9	4.0	7/1	1.8	2
Dekalb.....	BR-65+	78.8	1	4.2	9.0	7/2	1.5	1
Northrup King.....	SAVANNA 5	78.5	0	4.7	9.5	6/29	1.0	1
Surgro.....	ORO-T XTRA	78.0	1	4.6	5.5	7/3	2.0	3
Surgro.....	ORO XTRA	77.9	0	3.8	6.5	7/1	1.8	3
Funk's.....	G-550	77.4	0	3.8	3.3	7/2	1.8	1
Funk's.....	G-611	76.5	0	4.0	5.5	7/2	2.0	2
Pioneer.....	BB15	76.4	1	4.6	7.5	7/1	1.8	0
Coker.....	7675	76.4	1	3.9	5.5	7/1	2.0	3
Ring Around.....	733GB	75.6	0	3.9	6.5	6/28	2.0	3
Coker.....	7723	74.5	1	4.4	7.0	7/1	1.5	1
Pennington.....	PENNGRAIN YE	74.3	1	3.6	4.3	7/2	2.0	3
Northrup King.....	2670	73.9	0	4.0	4.5	7/3	1.8	3
Taylor Evans.....	T-E DINERO	73.5	1	3.8	5.0	6/29	1.5	25
Ring Around.....	808GB	71.5	0	3.9	6.5	7/2	2.0	5
Growers.....	ML-135	70.8	0	3.6	3.5	7/1	2.3	3
McNair.....	550	70.2	1	3.7	4.3	7/1	2.5	4
Funk's.....	G-522A	70.2	1	3.9	6.0	6/29	2.5	14
Dekalb.....	BR-64	69.6	0	4.5	9.5	6/29	2.8	0
Hunt.....	HT-345	68.3	1	4.3	7.8	6/29	2.3	10
Taylor Evans.....	T-E Y101-R	65.7	0	3.6	5.8	7/1	2.0	3
Surgro.....	ORO-T	62.8	0	4.3	6.5	7/1	2.0	6
Growers.....	GSA 1360	62.5	0	4.4	6.5	7/4	1.5	1
Pioneer.....	8311	60.4	1	3.7	4.3	6/29	2.0	18
McCurdy.....	M53YG	60.2	0	4.0	7.0	6/29	2.0	10
Funk's.....	HM1762	50.6	1	3.5	4.3	6/28	3.0	8
Dekalb.....	BR-45+	49.0	0	3.4	3.0	7/1	2.0	1
McCurdy.....	M55YG	28.9	0	4.2	9.0	6/29	2.0	

Test average: 69.9
L.S.D. (.05): 7.6
C.V. (%): 9.2

^{1/}Whole plot yields adjusted to 14% moisture and 56 lb. per bushel.

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

^{3/}1 = tight; 2 = medium; 3 = loose.

Planted: April 25, 1980

Plot size: 2 rows, 20 feet long, 36-inch row spacing.

Nitrogen Rate: 100 lb. (N/A), split application

Herbicide: Nilogard (Propazine).

Table 10 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Black Belt Substation, Marion Junction, 1978-80

Brand name	Hybrids	Yield per		Plant height	Head exertion <u>1/</u>	Head type <u>2/</u>	Grain damage estimate
		acre	Lodging				
		Bu.	Pct.	Ft.	In.	Rating	Pct.
Funk's	G-522DR	53.1	0	3.8	3.3	1.8	3
Pioneer	B815	51.7	3	4.4	3.5	2.0	1
Pennington	PENNGRAIN YE	51.5	0	3.7	4.7	2.2	3
Coker	7675	51.2	0	3.8	4.0	2.0	3
Funk's	G-522A	49.1	0	3.5	4.0	2.3	3
Growers	GSA 1334BR	48.8	0	4.0	4.1	3.0	3
Taylor Evans	T-E Y101-R	48.0	0	3.5	4.6	2.1	5
Funk's	G-516BR	47.8	0	3.9	3.8	3.0	1
Northrup King	SAVANNA 5	46.9	4	4.9	6.5	1.0	1
Growers	ML-135	46.7	0	3.5	3.3	2.4	5
Pioneer	8311	45.0	0	3.6	2.5	2.2	4
McCurdy	M53YG	42.2	2	3.9	4.7	2.1	3
Surgro	ORO-T	41.9	2	4.2	3.6	2.1	3
Dekalb	BR-65+	41.5	0	4.2	6.3	1.8	1
Dekalb	BR-45+	40.3	0	3.5	4.6	2.0	2
Dekalb	BR-64	34.7	5	4.6	6.7	2.6	4

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

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

Table 11. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Black Belt Substation, Marion Junction, 1979-80

Brand name	Hybrid	Yield	Lodging	Plant	Head	Head ^{1/}	Head	Grain
		per acre		height	exsertion		type ^{2/}	
		Bu.	Pct.	Pt.	In.		Rating	Pct.
Funk's	HW1762	51.7	0	3.3	1.6		2.5	7
Pioneer	B815	51.4	0	4.3	2.9		2.0	2
Coker	7675	47.3	0	3.7	3.3		2.0	4
Northrup King	SAVANNA 5	46.7	0	5.0	5.4		1.0	2
Funk's	G-522DR	45.9	0	3.7	2.7		1.8	3
Ring Around	733GB	45.7	0	3.4	3.3		2.3	5
Funk's	G-516DR	45.4	0	3.9	3.7		3.0	2
Pennington	PENNGRAIN YE	44.0	0	3.5	3.7		2.1	4
Surgro	ORO XTRA	42.9	0	3.7	3.6		1.9	4
Growers	GSA 1334BR	42.5	0	4.0	3.9		3.0	3
Surgro	ORO-T XTRA	42.2	0	4.4	4.3		1.7	4
Funk's	G-522A	42.1	0	3.4	3.2		2.4	3
Growers	ML-135	42.1	0	3.4	3.1		2.4	6
Taylor Evans	T-E DINERO	41.1	0	3.7	2.8		1.8	3
Taylor Evans	T-E Y101-R	39.9	0	3.5	4.1		2.1	7
McCurdy	M53YG	39.3	0	3.9	4.6		2.1	3
Dekalb	BR-65+	37.9	0	4.1	6.3		1.7	2
Surgro	ORO-T	37.6	0	4.2	3.2		2.1	3
Dekalb	BR-64	37.0	0	4.5	5.8		2.9	4
Pioneer	8311	36.9	0	3.5	1.8		2.3	5
Funk's	G-611	36.6	0	3.7	3.5		2.4	3
Dekalb	BR-45+	31.1	0	3.3	3.1		2.0	3

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

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

Table 12. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, Marion Junction, 1980

Brand name	Hybrid	Yield per acre ^{1/}		Lodging Pct.	Plant height		Head ^{2/} exertion		Stand Pct.	Head type ^{3/}		Grain damage estimate Pct.
		Bu.			Ft.	In.	Rating					
Pioneer-----	BB15	64.7		0	4.2	2.3	88	2.0		0		
Northrup King----	SAVANNA 5	59.0		0	4.8	3.0	79	1.0		0		
McCurdy-----	M55YG	55.2		0	3.7	2.5	76	3.0		0		
Growers-----	GSA 1334 BR	54.9		0	3.7	2.5	88	3.0		0		
Funk's-----	G-522DR	54.7		0	3.4	2.8	80	1.5		0		
Funk's-----	HW1762	54.4		0	3.3	1.3	80	2.8		4		
McNair-----	550	46.4		0	3.4	2.8	78	3.0		5		
Funk's-----	G-611	46.2		0	3.6	3.5	65	2.8		0		
Funk's-----	G-522A	46.2		0	3.1	2.5	74	2.8		0		
Coker-----	7675	46.2		0	3.4	2.8	75	2.0		3		
Funk's-----	G-516BR	45.3		0	3.7	3.0	78	3.0		0		
Pennington-----	PENNGRAIN YE	44.9		0	3.2	3.0	71	2.3		0		
Surgro-----	ORO XTRA	44.7		0	3.5	3.3	80	1.8		0		
Growers-----	GSA 1360	44.6		0	4.0	2.8	70	2.0		3		
Northrup King----	2670	44.6		0	3.6	2.0	79	2.0		3		
Coker-----	7723	44.2		0	4.0	4.0	71	2.0		3		
Taylor Evans-----	T-E DINERO	44.2		0	3.4	3.0	74	2.0		3		
Ring Around-----	733GB	43.7		0	3.2	2.5	73	2.5		3		
Surgro-----	ORO-T XTRA	43.2		0	3.9	3.5	76	2.0		4		
Pioneer-----	8311	42.9		0	3.4	1.3	75	2.5		4		
Dekalb-----	BR-65+	41.9		0	3.9	6.0	69	1.8		0		
Taylor Evans-----	T-E Y101-R	41.7		0	3.2	3.8	79	2.3		8		
Growers-----	ML-135	41.7		0	3.2	3.3	63	2.5		4		
Ring Around-----	808GB	39.6		0	3.5	2.5	75	2.5		6		
Surgro-----	ORO-T	39.4		0	3.6	2.5	71	2.3		0		
Dekalb-----	BR-64	38.8		0	4.3	5.8	84	2.8		0		
Hunt-----	HIT-345	37.3		0	3.6	3.8	75	3.0		13		
McCurdy-----	M53YG	36.6		0	3.6	4.5	73	2.3		0		
Funk's-----	G-550	36.2		0	3.1	1.8	71	2.0		19		
Dekalb-----	BR-45+	26.1		0	3.1	2.3	65	2.0		0		
Test average:		45.0										
L.S.D. (.05):		9.0										
C.V. (%):		17.1										

^{1/} Whole plot yields adjusted to 14% moisture and 56 lb. per bushel.

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

^{3/} 1 = tight; 2 = medium; 3 = loose.

Planted: May 14, 1980.

Plot size: 2 rows, 20 feet long, 36-inch row spacing.

Nitrogen rate: 80 lb. (N/A).

Herbicide: Milogard.

Table 13 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Monroeville Experiment Field, Monroeville, 1978-80

Brand name	Hybrid	Yield per acre Bu.	Lodging Pct.	Plant height Ft.	Head exsertion <u>1/</u> In.	Head type <u>2/</u> Rating
Pioneer-----	B815	64.1	0	3.8	12.1	1.9
Northrup King----	SAVANNA 5	64.0	0	4.0	15.8	1.3
Pennington-----	PENNGRAIN BR	61.6	6	3.3	11.3	2.9
Funk's-----	G-516BR	60.7	0	3.4	12.5	3.0
Growers-----	GSA 1334 BR	59.5	0	3.4	13.8	3.0
Dekalb-----	BR-64	54.6	1	4.0	15.6	2.3
Pennington-----	PENNGRAIN YE	49.1	0	3.0	11.3	2.5
Funk's-----	G-522DR	48.7	0	3.1	11.5	1.7
Funk's-----	G-522A	47.9	0	3.0	12.3	2.3
Dekalb-----	BR-45+	46.3	0	3.0	12.2	1.7
Taylor Evans-----	Y101 R	46.0	0	3.1	12.1	1.8
Growers-----	ML-135	43.5	0	2.9	11.5	2.5
McCurdy-----	M53YG	43.2	1	3.2	11.8	1.8
Surgro-----	ORO T	35.9	0	3.7	11.7	2.3

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

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

Table 14 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Monroeville Experiment Field, Monroeville, 1979-80

Brand name	Hybrid	Yield per		Plant height	Head exertion ^{1/}	Head type ^{2/}
		acre	Lodging			
		Bu.	Pct.	Ft.	In.	Rating
Pioneer-----	B815	68.8	0	4.0	13.6	2.3
Funk's-----	G-516BR	67.9	0	3.6	13.9	3.0
Northrup King----	SAVANNA 5	65.5	0	4.1	17.6	1.5
Growers-----	GSA 1334BR	64.4	0	3.6	16.1	3.0
Pennington-----	PENNGRAIN BR	64.0	0	3.4	12.6	3.0
Dekalb-----	BR-64	60.7	2	4.3	17.4	2.4
Growers-----	GSA 1290	56.8	0	3.0	13.4	2.0
Funk's-----	G-522DR	54.8	0	3.2	13.3	1.9
Funk's-----	G-522A	54.1	0	3.1	13.9	2.4
Pennington-----	PENNGRAIN YB	52.8	0	3.2	12.8	2.8
Taylor Evans-----	T-E DINERO	50.6	0	3.2	12.4	1.9
Growers-----	ML-135	49.2	0	3.0	13.0	2.6
Dekalb-----	D-42A	49.1	0	3.2	15.5	2.0
Taylor Evans-----	T-E Y101-R	48.1	0	3.2	13.8	1.9
McCurdy-----	M51YG	47.4	0	3.1	13.5	2.3
Dekalb-----	BR-45+	45.9	0	3.1	13.1	1.0
Surgro-----	ORO-T XTRA	45.8	1	4.0	13.1	1.9
Funk's-----	G-611	45.1	0	3.4	14.6	2.0
Coker-----	7675	45.1	0	3.3	13.5	2.0
McCurdy-----	M53YG	44.8	1	3.4	13.5	2.1
Surgro-----	ORO-T	33.8	0	3.9	13.0	2.4

^{1/} Measured from terminal leaf to base of the head.

^{2/} 1 = tight; 2 = medium; 3 = loose.

Table 15. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Monroeville Experiment Field, Monroeville, 1980

Brand Name	Hybrid	Yield per acre ^{1/}		Lodging Pct.	Plant height Ft.	Head exertion ^{2/} In.	Mid-bloom Date	Head type ^{3/} Rating
		Bu.	Pct.					
Funk's	G-516BR	94.1	0	4.2	15.8	7/5	3.0	
Growers	GSA 1334BR	89.1	0	4.1	16.3	7/5	3.0	
Pennington	PENNGRAIN BR	87.2	0	4.0	16.3	7/3	3.0	
Northrup King	SAVANNA 5	86.9	0	4.7	18.3	7/2	2.0	
Pioneer	B815	86.4	0	4.5	15.3	7/1	2.0	
Surgro	ORO XTRA	85.2	0	3.5	14.5	7/2	2.0	
Growers	GSA 1290	84.4	0	3.4	16.8	7/2	2.0	
Funk's	G-522A	82.4	0	3.5	15.8	7/2	2.5	
Pennington	PENNGRAIN YE	78.9	0	3.5	15.5	7/2	2.8	
Taylor Evans	T-E DINERO	78.2	0	3.6	14.8	7/2	2.0	
Funk's	G-522DR	78.1	0	3.6	15.5	7/1	2.0	
Growers	ML-135	76.0	0	3.4	16.0	7/1	2.5	
Dekalb	BR-64	75.8	1	5.0	19.8	7/1	2.0	
Dekalb	D-42A	75.3	0	3.8	17.0	7/1	2.0	
Funk's	G-550	75.3	0	3.9	13.8	7/2	1.8	
Coker	7737	74.4	0	4.0	14.3	7/1	2.0	
Taylor Evans	T-E Y101-R	72.5	0	3.9	15.5	7/1	2.0	
McCurdy	M51YG	72.4	0	3.6	15.0	7/1	2.5	
Ring Around	733GB	72.2	0	3.7	15.8	7/1	2.5	
Funk's	G-611	71.4	0	3.9	15.3	7/2	2.3	
McNair	550	70.6	0	3.9	16.3	7/1	2.8	
Northrup King	2779	69.0	0	3.7	17.0	6/29	2.5	
McCurdy	M53YG	67.8	0	3.9	17.0	7/2	2.3	
Ring Around	800GB	67.4	0	4.1	15.8	7/1	2.5	
Coker	7675	66.5	0	3.7	15.0	7/1	2.3	
Surgro	ORO-T XTRA	66.1	0	4.5	15.3	7/1	2.0	
Growers	GSA 1180	55.2	0	3.8	15.8	7/5	2.0	
McCurdy	M55YG	54.4	0	4.2	18.3	7/1	2.3	
Dekalb	BR-45+	53.9	0	3.4	14.3	7/1	2.0	
Surgro	ORO T	50.7	0	4.5	16.0	7/1	2.5	
Test average:		73.9						
L.S.D. (.05):		10.2						
C.V. (%):		11.7						

^{1/} Whole plot yields adjusted to 14% moisture and 56 lb. per bushel. (No bird damage).

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

^{3/} 1 = tight; 2 = medium; 3 = loose.

Planted: April 22, 1980.

Plot size: 2 rows, 20 feet long, 36-inch row spacing.

Nitrogen Rate: 120 lb. (N/A).

Herbicide: none.

Table 16 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Wiregrass Substation, Headland, 1978-80

Brand name	Hybrid	Yield per acre	Lodging	Plant height	Head exsertion <u>1/</u>	Head type <u>2/</u>
		Bu.	Pct.	Ft.	In.	Rating
Funk's-----	G-522A	69.6	0	3.2	5.8	2.3
Pennington-----	PENNGRAIN YE	68.6	0	3.1	5.3	2.4
Growers-----	ML-135	68.5	0	3.0	5.7	2.3
Growers-----	GSA 1334 BR	68.0	0	3.6	5.2	2.3
Pioneer-----	B815	67.7	0	3.9	6.2	2.8
Northrup King-----	SAVANNA 5	67.6	0	4.1	8.0	1.1
Pennington-----	PENNGRAIN BR	67.5	0	3.6	5.9	2.3
McCurdy-----	M51YG	66.9	0	3.1	4.8	2.1
Taylor Evans-----	T-E Y101-R	64.4	0	3.3	5.8	2.5
Coker-----	7675	64.4	0	3.3	5.5	1.8
Taylor Evans-----	T-E DINERO	64.3	0	3.3	5.6	1.8
Funk's-----	G-516BR	62.6	0	3.4	5.4	2.3
Surgro-----	ORO-T	58.0	0	3.8	5.8	2.1
Funk's-----	G-522DR	57.5	0	3.2	6.2	1.7
Dekalb-----	BR-64	54.6	0	4.1	6.8	2.4

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

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

Table 17. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Wiregrass Substation, Headland, 1979-80

Brand name	Hybrid	Yield	Lodging	Plant	Head	Head
		per acre		height	exsertion <u>1/</u>	type <u>2/</u>
		Bu.	Pct.	Ft.	In.	Rating
Funk's.....	G-522A	72.4	0	3.0	6.1	2.5
Dekalb.....	D-42A	71.3	0	2.9	5.8	1.9
Surgro.....	ORO-T XTRA	67.6	1	3.7	6.3	1.1
Pennington.....	PENNGRAIN YE	66.6	0	2.9	6.0	2.6
Coker.....	7675	63.5	0	3.1	6.0	1.4
Growers.....	ML-135	62.7	0	2.9	6.3	2.5
Surgro.....	ORO T	62.6	1	3.7	6.4	2.1
Growers.....	GSA 1290	60.9	0	3.0	5.9	1.5
McCurdy.....	M51YG	60.6	0	3.0	4.9	2.3
Pennington.....	PENNGRAIN BR	60.5	0	3.5	5.9	3.0
Funk's.....	G-522DR	60.3	0	3.0	6.6	1.3
Taylor Evans.....	T-E DINERO	59.6	0	3.1	5.9	1.5
Taylor Evans.....	T-E Y101-R	59.5	0	3.2	5.9	2.8
Funk's.....	G-611	57.7	0	3.3	4.8	2.0
Funk's.....	G-516BR	57.6	0	3.3	6.0	3.0
Pioneer.....	B815	56.0	0	3.7	6.6	3.0
Dekalb.....	BR-64	54.5	0	4.0	6.9	2.8
Growers.....	GSA 1334BR	54.5	0	3.4	5.4	3.0
McCurdy.....	M53YG	52.2	0	3.0	4.6	2.0
Northrup King.....	SAVANNA 5	45.0	0	3.9	8.5	1.0
Dekalb.....	BR-45+	41.0	0	3.1	6.0	2.0

1/ Measured from terminal leaf to bases of the head.

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

Table 18. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Wiregrass Substation, Headland, 1980

Brand name	Hybrid	Yield per acre ^{1/}		Lodging Pct.	Plant height Ft.	Head exertion ^{2/}		Mid-bloom Date	Head type ^{3/} Rating
		Bu.	Pct.			In.			
Funk's	G-522A	71.4	0		3.0	9.3		6/29	2.5
Dekalb	D-42A	70.0	0		3.1	9.0		6/27	1.8
Ring Around	733GB	66.4	0		3.1	8.3		6/28	2.8
Coker	7737	64.1	0		3.2	8.0		6/29	1.0
Pennington	PENNGRAIN YE	61.7	0		3.1	9.5		6/28	2.8
Surgro	ORO-T XTRA	61.4	0		3.5	8.5		6/28	1.3
McNair	550	61.4	0		3.3	9.5		6/27	2.8
Funk's	G-522DR	58.0	0		3.1	10.3		6/29	1.0
Northrup King	2779	56.6	0		2.9	8.8		6/27	2.5
Coker	7675	56.0	0		3.1	9.0		6/29	1.3
Surgro	ORO XTRA	55.0	0		2.9	8.5		6/27	1.5
Growers	ML-135	55.0	0		2.9	9.5		6/27	2.5
Funk's	G-550	54.4	0		2.9	7.5		6/29	1.0
Surgro	ORO T	54.2	0		3.6	8.3		6/29	2.3
Growers	GSA 1290	54.2	0		2.9	8.8		6/27	1.5
McCurdy	M51YG	54.1	0		3.1	6.8		6/27	2.5
Taylor Evans	T-E Y101 R	52.8	0		3.1	8.3		6/28	3.0
Funk's	G-611	51.4	0		3.3	6.5		6/28	2.0
Ring Around	808GB	50.7	0		3.5	9.3		6/28	2.3
Taylor Evans	T-E DINERO	49.9	0		3.0	8.8		6/27	1.5
Funk's	G-516BR	43.8	0		3.3	8.5		6/28	3.0
Dekalb	BR-64	42.7	0		4.0	9.8		7/1	3.0
Growers	GSA 1334 BR	41.6	0		3.6	7.8		6/29	3.0
Pennington	PENNGRAIN BR	41.0	0		3.6	8.3		6/29	3.0
Pioneer	B815	39.8	0		3.7	9.3		6/29	3.0
McCurdy	M55YG	36.5	0		3.3	8.0		6/27	1.5
McCurdy	M53YG	35.4	0		3.1	6.3		7/1	2.0
Northrup King	SAVANNA 5	33.7	0		3.6	9.8		6/29	1.0
Dekalb	BR-45+	25.3	0		3.0	9.0		6/27	2.0
Growers	GSA 1180	21.5	2		3.0	7.8		6/27	1.8
Test average:		50.7							
L.S.D. (.05):		9.0							
C.V. (%):		15.0							

1/ Whole plot yields adjusted to 14% moisture and 56 lb. per bushel (No bird damage).

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

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

Planted: April 18, 1980.

Plot size: 2 rows, 22 feet long, 36-inch row spacing.

Nitrogen Rate: 120 lb. (N/A), split application.

Herbicide: Milogard (Propazine).

Insecticide: Ethyl parathion (two applications).

Table 19. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Gulf Coast Substation, Fairhope, 1978-80

Brand name	Hybrid	Yield per acre	Lodging	Plant height	Head exsertion ^{1/}	Head type ^{2/}	Grain damage estimate
		Bu.	Pct.	Ft.	In.	Rating	Pct.
Northrup King-----	SAVANNA 5	89.4	2	5.0	7.1	1.0	0
Pennington-----	PENNGRAIN BR	88.3	0	4.3	4.4	3.0	1
Funk's-----	G-522DR	86.6	0	4.1	4.9	1.5	4
Pioneer-----	B815	86.0	1	4.6	4.8	1.6	1
Funk's-----	G-516BR	84.7	0	4.1	5.1	2.9	2
Taylor Evans-----	T-E DINERO	83.9	0	4.1	5.8	1.2	4
Growers-----	GSA 1334 BR	83.6	1	4.4	6.5	2.9	2
Funk's-----	G-522A	79.0	0	4.0	5.3	2.3	3
Pennington-----	PENNGRAIN YE	77.1	0	3.8	4.3	2.6	5
Taylor Evans-----	T-E Y101-R	75.5	0	3.7	6.5	2.0	2
Dekalb-----	BR-64	74.7	0	4.8	7.2	2.9	1
Growers-----	ML-135	73.9	0	3.8	5.3	2.3	3
McCurdy-----	M51YG	71.8	0	3.9	6.5	2.3	5
Surgro-----	ORO-T	64.5	2	4.6	4.8	2.4	21

^{1/} Measured from terminal leaf to base of the head.

^{2/} 1 = tight; 2 = medium; 3 = loose..

Table 20. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Gulf Coast Substation, Fairhope, 1979-80

Brand name	Hybrid	Yield per acre Bu.	Lodging Pct.	Plant height Ft.	Head exsertion In.	Head type Rating	Grain damage estimate Pct.
Funk's	G-522DR	91.2	0	3.9	4.4	1.3	1
Pioneer	B815	91.1	1	4.4	3.9	1.9	1
Pennington	PENNGRAIN BR	90.4	0	3.9	3.9	3.0	0
Growers	GSA 1334 BR	88.3	1	4.2	5.5	3.0	0
Taylor Evans	T-E DINERO	87.3	0	4.0	5.9	1.3	2
Coker	7675	86.8	0	4.1	4.8	1.3	1
Northrup King	SAVANNA 5	86.8	3	5.0	6.9	1.0	0
Funk's	G-516BR	85.0	0	4.1	5.1	3.0	0
Dekalb	D-42A	83.8	1	3.5	2.8	2.0	1
Funk's	G-611	82.3	0	4.1	4.9	2.0	4
Funk's	G-522A	82.1	0	3.9	5.6	2.5	3
Growers	GSA 1290	82.0	0	3.7	6.8	1.5	1
Surgro	ORO-T XTRA	79.5	0	4.8	5.0	1.4	14
Taylor Evans	T-E Y101 R	79.2	0	3.4	4.9	2.0	3
Dekalb	BR-64	77.2	1	4.6	6.3	3.0	0
Pennington	PENNGRAIN YE	75.9	0	3.6	4.4	2.6	4
McCurdy	M53YG	75.6	0	4.0	5.4	1.5	0
McCurdy	M51YG	74.3	0	3.8	7.4	2.4	6
Growers	ML-135	70.9	0	3.5	4.1	2.4	1
Surgro	ORO-T	67.2	3	4.3	3.1	2.5	21
Dekalb	BR-45+	59.8	0	3.3	4.1	1.4	1

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

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

Table 21 . Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, Fairhope, 1980

Brand name	Hybrid	Yield per acre ^{1/} Bu.	Lodging Pct.	Plant height Ft.	Head exsertion ^{2/} In.	Mid-bloom Date	Head type ^{3/} Rating	Grain damage estimate Pct.
Funk's	G-522DR	122.1	0	4.4	2.0	6/27	1.3	1
Taylor Evans	T-E DINERO	118.0	0	4.6	6.0	6/26	1.3	4
Surgro	ORO XTRA	116.6	0	4.4	3.3	6/27	1.3	4
Coker	7737	116.1	0	4.6	1.8	6/28	1.0	5
Northrup King	SAVANNA 5	114.2	0	4.9	4.5	6/27	1.0	0
Coker	7675	113.2	0	4.5	3.5	6/27	1.3	3
Pennington	PENNGRAIN BR	111.3	0	4.4	2.3	6/29	3.0	0
Growers	GSA 1290	111.0	0	4.5	8.3	6/26	1.5	1
Ring Around	733GB	110.8	0	4.0	5.8	6/27	2.0	10
Dekalb	D-42A	110.3	0	3.9	1.3	6/27	2.0	1
Growers	GSA 1334BR	110.2	0	4.7	5.0	7/1	3.0	0
Funk's	G-522A	110.2	0	4.4	5.5	6/27	2.3	5
Funk's	G-516BR	110.2	0	4.6	4.0	7/1	3.0	0
Pioneer	DB15	108.5	0	5.0	2.3	6/27	1.5	3
Taylor Evans	T-E Y101 R	107.2	0	3.9	4.6	6/26	2.0	6
Funk's	G-611	105.6	0	4.8	4.8	6/27	2.0	9
McHajr	550	104.9	0	4.4	5.5	6/29	3.0	7
Funk's	G-550	101.4	0	4.5	2.8	7/1	1.0	0
Ring Around	008GB	99.9	0	4.4	4.5	6/28	1.8	10
Northrup King	2779	99.3	0	4.1	5.3	6/22	2.0	6
Pennington	PENNGRAIN YE	98.8	0	4.1	3.0	6/26	2.5	9
Growers	GSA 1180	97.9	0	3.9	2.8	6/24	1.3	6
McCurdy	M51YG	97.5	0	4.1	5.0	6/23	2.0	11
Dekalb	BR-64	94.1	0	5.0	6.5	6/25	3.0	0
McCurdy	M53YG	93.7	0	4.5	3.8	6/25	1.5	0
Growers	ML-135	92.4	0	3.8	1.8	6/26	2.3	3
Surgro	ORO-T XTRA	91.3	1	5.4	5.0	6/28	1.3	28
McCurdy	M55YG	85.6	0	4.9	10.0	6/23	2.3	18
Surgro	ORO-T	77.2	1	4.8	1.0	6/26	2.8	41
Dekalb	BR-45+	68.5	0	3.6	1.8	6/26	1.3	1
Test average:		103.3						
L.S.D. (.05):		9.9						
C.V. (%):		8.1						

1/ Whole plot yields adjusted to 14% moisture and 56 lb. per bushel.

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

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

Planted: April 23, 1980.

Plot size: 2 rows, 20 feet long, 36-inch row spacing.

Nitrogen Rate: 130 lb. (N/A), split application.

Herbicide: Milogard (Propazine).

Sources of Seed for the 1980 Grain Sorghum Tests

Entry designation	Source of seed
Coker----- 7675 7723 7737	Coker's Pedigreed Seed Company Route 1, Box 150 Lubbock, Texas
Dekalb----- *BR-45+ *BR-64 *BR-65+ D-42A	Dekalb Ag. Research, Inc. Route 2 Lubbock, Texas
Funk's----- *G-516BR G-522A G-522DR G-550 G-611 HW1762	Louisiana Seed Co., Inc. P.O. Box 1867 Plainview, Texas
Gold Kist-(Growers)----- GSA-1180 GSA-1290 GSA-1360 ML-135	Gold Kist, Inc. P.O. Box 2210 Atlanta, Georgia
Growers----- *GSA-1334BR	Growers Seed Association P.O. Box 1656 Lubbock, Texas
Hunt----- HT-45 HT-345	Hunt Seed Co., Inc. 622 28th Street Lubbock, Texas
McCurdy----- M51YG M53YG M55YG	McCurdy Seed Co. Fremont, Iowa
McNair----- 550	Hunt Seed Co., Inc. 622 28th Street Lubbock, Texas
Northrup King----- *SAVANNA 5 2670 2779	Northrup King Co. P.O. Box 151 Columbus, Mississippi

*Bird resistant hybrids

Pennington-----	Pennington Seed, Inc.
*PENNGRAIN BR	P.O. Box 290
PENNGRAIN YE	Madison, Georgia
Pioneer-----	Pioneer Hi-Bred International, Inc.
B815	1000 W. Jefferson St.
8311	Tipton, Indiana
Ring Around-----	Ring Around Research
733GB	P.O. Box 1629
807	Plainview, Texas
808GB	
Surgro-----	R.C. Young Seed and Grain Co.
ORO	624 7th Street
ORO T	Lubbock, Texas
ORO XTRA	
ORO T XTRA	
Taylor-Evans-----	Taylor-Evans Seed Co.
TE DINERO	P.O. Box 68
TE Y101-R	Tulia, Texas

*Bird resistant hybrids

ACCEPTABLE HYBRIDS FOR 1981

All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hybrid. Hybrids are listed in alphabetical order within bird resistant and non-bird resistant groups. The locations used in making regional lists are as follows: Winfield, Northern Alabama; Marion Junction and Prattville, Central Alabama; Headland, Monroeville, and Fairhope, Southern Alabama. For further information on hybrids see individual location tables. All acceptable hybrids have been tested 3 years at one or more locations within the region.

NORTHERN ALABAMA

Bird resistant ^{3/}	
Brand name	Hybrid
Dekalb-----	BR-65+ ^{1/}
Funk's-----	G-516BR ^{1/}
Grower's-----	GSA-1334BR ^{1/}
Northrup King-----	SAVANNA 5

CENTRAL ALABAMA ^{2/}

Bird resistant ^{3/}	
Brand name	Hybrid
Dekalb-----	BR-64 ^{1/}
Dekalb-----	BR-65+
Funk's-----	G-516BR
Growers-----	GSA-1334BR
Northrup King-----	SAVANNA 5
Pioneer-----	B815

SOUTHERN ALABAMA

Bird resistant ^{3/}	
Brand name	Hybrid
Dekalb-----	BR-64 ^{1/}
Funk's-----	G-516BR
Growers-----	GSA-1334BR
Northrup King-----	SAVANNA 5
Pennington-----	PENNGRAIN BR
Pioneer-----	B815

Non-bird resistant

Brand name	Hybrid
Coker-----	7675
Funk's-----	G-522A
Funk's-----	G-522DR
Growers-----	GSA-1180
McCurdy-----	M51YG
Pennington-----	PENNGRAIN YE
Ring Around-----	808GB
Surgro-----	ORO
Taylor-Evans-----	T-E Y101-R

Non-bird resistant

Brand name	Hybrid
Coker's-----	7675
Funk's-----	G-522A
Funk's-----	G-522DR
Growers-----	ML-135 ^{1/}
Pennington-----	PENNGRAIN YE
Taylor-Evans-----	T-E Y101-R

Non-bird resistant

Brand name	Hybrid
Funk's-----	G-522A
Funk's-----	G-522DR
Growers-----	ML-135 ^{1/}
Pennington-----	PENNGRAIN YE
Taylor-Evans-----	T-E DINERO

^{1/} If present trends continue, this hybrid will be removed from the acceptable list next year in the region indicated.
^{2/} Performance of hybrids in the Black Belt may be different from other areas of Central Alabama. For performance of hybrids in the Black Belt, see Tables 10, 11, and 12.
^{3/} Bird resistant hybrids may be difficult to market, and also have lower feeding value than non-bird resistant hybrids.