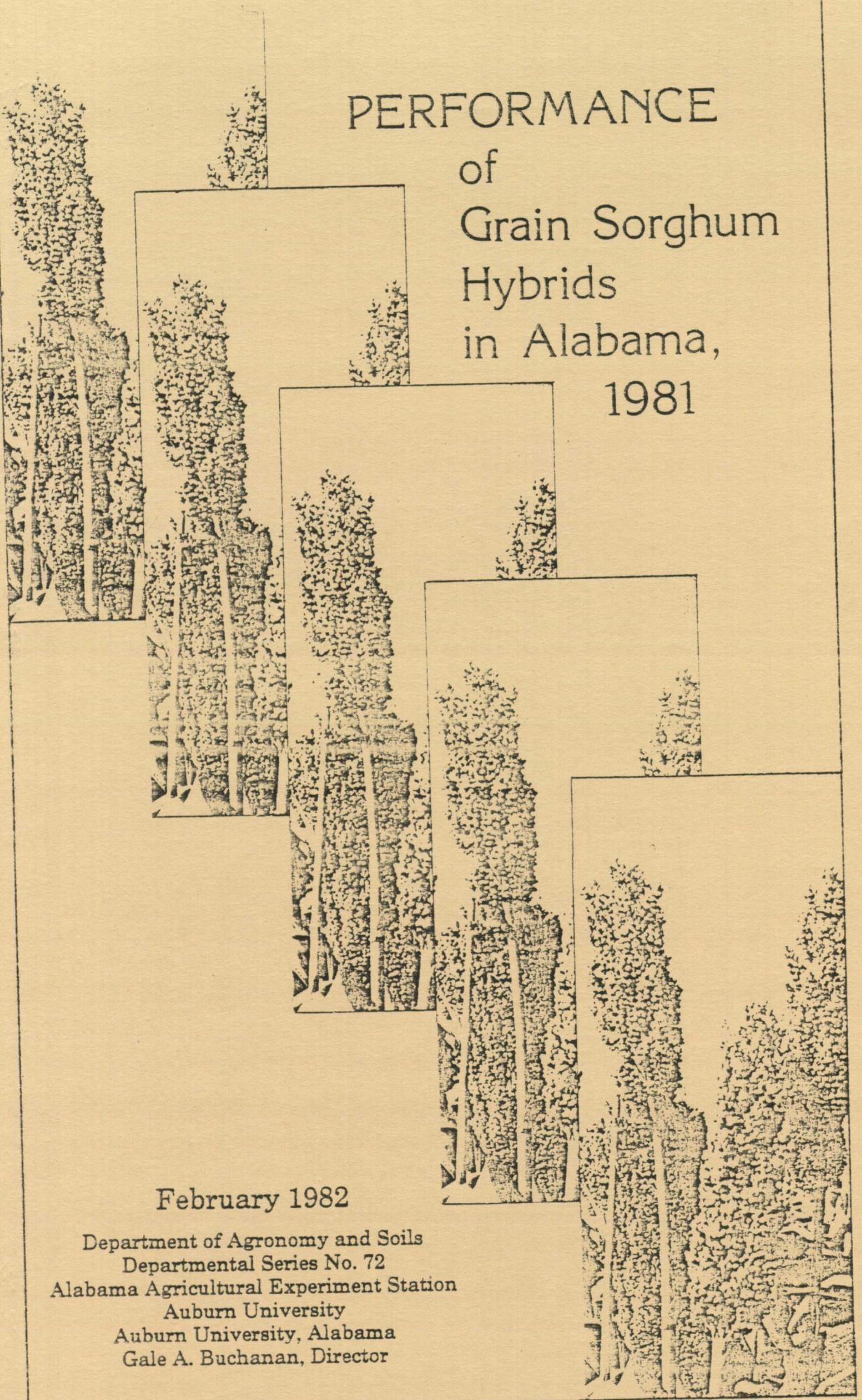
PERFORMANCE of Grain Sorghum Hybrids in Alabama, 1981



February 1982

Department of Agronomy and Soils
Departmental Series No. 72
Alabama Agricultural Experiment Station
Auburn University
Auburn University, Alabama
Gale A. Buchanan, Director

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Performance of Grain Sorghum Hybrids in Alabama, 1981

Cliff Currier[1/]

Introduction

Grain sorghum performance tests are conducted annually throughout Alabama by the Alabama Agricultural Experiment Station. These tests give a relative comparison of hybrid performance under the conditions at a particular location. The locations used represent most of the major soil and climatic areas of the State. The performance of hybrids varies with location. Therefore this report should be carefully studied before a hybrid is selected.

In 1981, hybrid tests were planted at nine locations. Test average grain yields of 74, 88, and 109 bu./A were obtained at Prattville, Fairhope, and Belle Mina, respectively. Test average grain yields at six other locations ranged from 36 to 70 bu./A. The low yields at these locations were due primarily to inadequate rainfall. Insect, bird, and disease damage was relatively light this year. Moderate bird damage, however, did occur at Belle Mina and Marion Junction.

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. The target plant population for the hybrid test was 50,000 plants per acre. To ensure optimum stands, the seeding rate was 25% higher than the target plant population. Insecticides were used at some locations to control midge and worm damage in the heads. Plot sizes and

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cultural practices for each test are listed by location in tables 3, 4, 5, 8, 11, 12, 15, 18, and 21.

The sources of seed and the hybrids used in the tests are listed on pages 39 and 40.

Explanation of Data Collected

Yield

Grain yields are given in bushels per acre adjusted to 14% moisture at 56 pounds per bushel. For all locations, yields were calculated from the weight of grain obtained from harvesting the whole plot. Sorghum heads at all locations were either hand harvested and threshed with a plot combine or combined in the field.

Grain Damage Estimate

Visual estimates of grain damage were made at most locations. Estimates o grain damage were used to indicate the amount of grain loss caused by birds, insects, and disease. 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 in small fields. 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, bird-resistant hybrids should be used. One should keep in mind that bird resistant grain sorghum hybrids are sometimes difficult to market and may have lower feeding value than non-bird resistant hybrids.

Lodging

Lodging is given as the percentage of plants broken or leaning at an angle of more than 45 degrees from vertical. The seed heads of lodged plants in plots were not included in the yields shown in this report.

Plant Height

Plant height is 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 may be useful in reducing damage from insects and diseases which attack 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). Dates of mid-bloom for hybrids at all locations are shown in tables 3, 4, 5, 8, 11, 12, 15, 18, and 21.

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 1981. 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 have significantly different grain yields. The C. V., coefficient of variation, is a measure of uncontrolled variability within a test.

The list of acceptable hybrids is based on 3-year average grain yield and lodging data from each location. The list of acceptable hybrids is divided into three regions and is tabulated by combining the lists of hybrids found to be acceptable for each location in a given region. The locations representing the three regions are presented in the acknowledgments. 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.

Acknowledgments

The performance trials were conducted in cooperation with the following substation and experiment field superintendents and their staffs whose help is gratefully acknowledged:

Northern Alabama

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

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

Tennessee Valley Substation, Belle Mina - W. B. Webster, Superintendent

Central Alabama

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

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

E. V. Smith Research Center, (Agronomy Unit) Shorter - J. R. Akridge, Superintendent

Southern Alabama

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

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

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

Appreciation is expressed to W. H. Hearn and Mrs. Sally Bagwell for processing the data presented in this report. Appreciation is also expressed to Ms. Sandy Fleming for typing this manuscript.

Table 1. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Upper Coastal Plain Substation, Winfield, 1979-81

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Head type[3]
		Bu.	Pct.	Ft.	In.	Rating
Funk's	G-522DR	65	0	3.4	2.6	1.7
Pennington	PENNGRAIN YE	64	1	3.1	2.3	2.3
Surgfo	OROXTRA	62	1	3.2	2.3	1.9
McCurdy	M51YG	62	1	3.2	2.7	1.9
Funk's	G-522A	61	1	3.2	2.6	2.2
Coker	7675	61	2	3.4	3.0	1.4
CNS	1290	57	1	3.1	3.0	1.6
Northrup King	SAVANNA 5	57	11	3.7	4.1	1.3
Taylor Evans	T-E DINERO	57	1	3.3	2.8	1.8
Taylor Evans	T-E Y101-R	57	3	3.2	2.7	1.8
Dekalb	BR-65+	56	2	3.4	3.8	1.3
Ring Around	733GB	56	1	3.2	2.8	2.0
Pioneer	B815	56	1	3.9	4.3	1.8
Funk's	G-611	54	1	3.4	3.2	2.2
Ring Around	807	53	0	3.3	2.8	2.1
CNS	1334BR	51	3	3.2	3.8	2.8

1/ Yield 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.

Table 2. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Upper Coastal Plain Substation, Winfield, 1980-81

Brand name	Hybrid	Yield per acre [1]	Lodging	Plant height	Head exsertion [2]	Head type [3]
		Bu.	Pct.	Ft.	In.	Rating
Funk's	G-522DR	69	0	3.8	2.9	1.8
McCurdy	M51YG	64	1	3.6	3.0	1.9
Surgro	OROXTRA	64	1	3.5	2.8	2.3
Funk's	G-522A	64	2	3.7	3.1	2.1
Pennington	PENNGRAIN YE	63	1	3.5	2.5	2.3
CNS	1290	61	1	3.5	3.4	1.6
Ring Around	807	60	0	3.7	2.9	2.0
Pioneer	B815	60	1	4.3	4.3	1.9
Coker	7675	60	3	3.8	3.6	1.6
Northrup King	2670	60	6	3.8	3.3	1.8
Dekalb	BR-65+	59	3	3.8	3.5	1.5
Northrup King	SAVANNA 5	59	16	4.1	4.4	1.4
Ring Around	733GB	59	2	3.6	3.4	2.0
Taylor Evans	T-E Y101-R	58	4	3.5	3.1	1.8
Taylor Evans	T-E DINERO	58	2	3.8	3.4	2.0
CNS	1334BR	58	5	3.7	4.1	2.6
Funk's	G-550	57	2	3.6	2.5	1.9
Funk's	G-611	57	2	3.8	3.5	2.1
Coker	7723	54	3	4.1	3.5	1.6

1/ Yield 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.

Table 3. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Upper Coastal Plain Substation, Winfield, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-Bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Surgro	ORO-T-XTRA	80	10	4.5	5.5	7/3	1.3
Funk's	G-522DR	79	1	4.4	5.3	7/3	2.3
Funk's	G-522A	78	3	4.3	5.5	7/3	2.3
McCurdy	M57YG	75	3	4.2	5.8	7/3	1.8
McCurdy	M51YG	75	1	4.2	5.0	7/3	1.8
Northrup King	2779	74	8	4.3	7.0	7/3	1.8
Dekalb	DK-42Y	74	2	4.4	6.5	7/3	2.0
Pennington	PENNGRAIN YE	73	1	4.0	4.0	7/3	2.3
Northrup King	2670	73	2	4.1	5.0	7/3	1.5
Northrup King	SAVANNA 5	72	2	4.4	7.0	7/1	1.8
CNS	1290	72	2	4.0	6.0	7/3	2.0
Ring Around	807	71	0	4.2	4.8	7/3	2.5
Pioneer	B815	71	1	4.2	6.5	7/3	2.0
Pennington	PENNGRAIN DINERO	69	3	4.3	4.8	7/3	2.0
Surgro	OROXTRA	69	1	4.0	4.8	7/3	2.5
Taylor Evans	T-E DINERO	68	3	4.5	6.3	7/3	2.0
Dekalb	BR-65+	68	5	4.3	5.8	7/1	2.0
Dekalb	DK-64	68	12	4.4	5.3	7/3	1.8
Hunt	HT-126DR	68	1	4.3	6.3	7/3	1.5
Funk's	G-1516BR	67	0	4.3	5.8	7/3	2.3
Gold Kist	GK522G	67	9	4.2	5.3	7/3	2.0
Hunt	HT-128 GDR	67	1	4.4	5.5	7/3	1.5
Ring Around	733GB	67	2	4.2	6.0	7/3	2.5
Gold Kist	GK802G	67	2	4.2	5.3	7/3	2.0
CNS	1334BR	66	8	4.2	6.5	7/3	2.3

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Table 3. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Upper Coastal Plain Substation, Winfield, 1981.

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	8311	66	1	4.0	3.5	7/3	1.8
Taylor Evans	T-E Y101-R	65	8	4.1	5.8	7/4	2.0
Coker	7723	65	1	4.6	6.0	7/3	1.8
Ring Around	787	64	4	4.4	6.5	7/4	2.0
P-A-G	5550	64	4	4.2	4.3	7/3	1.8
Coker	7737	63	2	4.1	4.5	7/4	2.5
Funk's	G-550	63	2	4.0	3.8	7/3	2.3
Coker	7675	63	6	4.3	6.0	7/1	1.8
Funk's	G-611	62	3	4.3	6.8	7/4	2.3
P-A-G	6658	60	9	4.2	6.0	7/3	2.3
Test Average:		69					
L. S. D. (.05):		12					
C. V. (%):		14.7					

1/ Yield 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 16, 1981.
Plot size: 2 rows, 16 feet long, 40-inch row spacing.
Nitrogen rate: 120 lb. (N/A).
Herbicide: Aatrex
Insecticide: Sevin, one application.

Table 4. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Sand Mountain Substation, Crossville, 1981

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	48	5	3.9	1.0	7/14	2.0
Funk's	G-1516BR	44	3	3.6	1.0	7/15	2.0
Funk's	G-522DR	43	1	3.6	1.0	7/14	2.0
CNS	1334BR	43	13	3.6	1.0	7/17	3.0
CNS	1290	42	0	3.4	1.0	7/14	2.0
Dekal b	BR-65+	42	0	4.0	3.0	7/14	1.5
Funk's	G-550	42	5	3.7	1.0	7/14	1.8
Funk-s	G-611	41	1	3.5	1.3	7/16	1.8
Surgro	OROXTRA	41	2	3.5	1.3	7/15	2.0
Ring Around	787	41	3	3.5	1.0	7/17	2.0
Dekalb	DK-42Y	41	0	3.8	1.5	7/13	1.8
Funk's	G-522A	39	2	3.4	1.0	7/14	2.8
Pennington	PENNGRAIN DINERO	39	1	3.3	1.3	7/15	2.0
Ring Around	733GB	38	4	3.4	1.0	7/15	2.0
Coker	7737	38	4	3.8	1.0	7/15	2.0
Ring Around	807	38	0	3.5	1.0	7/16	2.3
Coker	7675	37	11	3.5	1.3	7/14	2.0
McCurdy	M57YG	37	4	3.5	1.0	7/14	2.0
Taylor Evans	T-E DINERO	37	8	3.4	1.3	7/15	2.0
Hunt	HT-126DR	36	6	3.8	1.8	7/12	1.8
McCurdy	M51YG	36	0	3.6	1.5	7/11	2.0
Hunt	HT-128GDR	35	5	3.8	1.3	7/14	2.0
Pennington	PENNGRAIN YE	35	1	3.5	1.0	7/13	2.0
Taylor Evans	T-E Y101-R	35	0	3.4	1.0	7/14	2.0
Gold Kist	GK802G	33	21	3.7	1.3	7/14	2.0
Northrup King	SAVANNA 5	33	8	4.4	3.3	7/13	1.5
Northrup King	2779	32	7	3.5	1.3	7/10	2.0

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Table 4. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Sand Mountain Substation, Crossville, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
P-A-G	5550	31	14	3.5	1.0	7/14	2.0
Surgro	ORO-T-XTRA	30	22	3.8	1.0	7/14	2.0
Pioneer	8311	30	9	3.6	1.0	7/14	2.0
P-A-G	6658	28	20	3.5	1.0	7/14	2.0
Northrup King	2670	22	39	3.8	1.0	7/14	2.0
Gold Kist	GK552G	22	16	3.6	1.8	7/10	2.0
Coker	7723	20	49	3.9	1.0	7/14	2.0
Dekalb	DK-64	15	61	3.8	1.3	7/14	2.0
Test average :		36					
L.S.D. (.05) :		7					
C.V. (%) :		16.0					

1/ Yield 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 22, 1981
Plot size: 2 rows, 20 feet long, 36-inch row spacing
Nitrogen rate: 120 lb. (N/A), split application.
Herbicide: Atrazine.
Insecticide: Diazinon and Sevin, one application of each.

Table 5. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Tennessee Valley Substation, Belle Mina, 1981

Brand name	Hybrid	Yield per acre 1/	Lodging	Plant height	Head exsertion 2/	Mid-bloom	Head type 3/	Estimate of grain damage
		Bu.	Pct.	Ft.	In.	Date	Rating	Pct.
Coker	7723	119	4	4.3	7.3	6/24	2.0	9
Dekalb	BR-65+	119	10	4.8	8.3	6/25	1.8	10
Ring Around	733GB	119	8	4.5	7.3	6/27	2.5	11
Coker	7675	115	1	3.8	8.3	6/24	2.3	13
Northrup King	2670	114	1	5.0	7.3	6/26	2.5	10
McCurdy	M51YG	113	4	4.9	7.3	6/28	2.3	15
Northrup King	SAVANNA 5	112	3	4.4	8.5	6/25	2.3	15
Pioneer	8311	112	5	4.0	7.8	6/24	2.3	14
Coker	7681BR	112	4	4.5	7.3	6/26	2.5	15
Pioneer	B815	112	1	4.3	6.5	6/26	1.5	19
Dekalb	DK-42Y	110	1	4.4	9.0	6/25	2.3	13
Funk's	G-1516BR	110	4	4.4	7.3	6/25	2.8	20
Funk's	G-1498	108	0	3.8	6.3	6/24	3.0	23
Funk's	G-522A	107	4	4.5	8.5	6/24	2.3	10
Northrup King	2779	105	8	4.8	9.5	6/25	1.5	11
Pennington	PENNGRAIN YE	105	3	4.1	8.3	6/25	2.8	19
Funk's	G-611	100	1	4.4	7.3	6/26	2.3	26
Funk's	G-522DR	99	3	4.7	7.5	6/27	2.3	16
Dekalb	BR-45+	98	1	4.4	8.5	6/26	2.0	21
Ring Around	787	93	3	4.6	7.8	6/27	2.5	25
Test average:		109						
L. S. D. (.05):		13						
C. V. (%):		10.2						

1/ Yield 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 16, 1981.
Plot size: 2 rows, 30 feet long, 40-inch row spacing.
Nitrogen rate: 80 lb. (N/A).
Herbicide: None.

Table 6. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at Prattville Experiment Field, Prattville, 1979-81

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Head type[3]
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	87	0	4.5	5.5	1.8
Coker	7675	85	0	3.9	4.1	1.5
Surgro	ORO-T-XTRA	81	0	4.5	4.0	1.4
Funk's	G-522DR	81	1	3.9	3.7	1.4
CNS	1334BR	80	0	3.8	3.5	3.0
Taylor Evans	T-E DINERO	78	0	3.7	3.5	1.4
Surgro	OROXTRA	77	0	3.8	4.4	1.3
Northrup King	SAVANNA 5	75	0	4.8	7.1	1.0
Funk's	G-611	74	0	3.9	4.3	1.7
Pennington	PENNGRAIN YE	74	0	3.6	3.5	2.1
Dekalb	BR-65+	72	0	4.1	6.4	1.2
Ring Around	733GB	72	0	3.7	4.8	1.8
Funk's	G-522A	68	0	3.6	4.0	2.3
Taylor Evans	T-E Y101-R	66	0	3.5	4.3	2.0
Pioneer	8311	65	0	3.7	3.3	2.0

1/ Yield adjusted to 14% moisture and 56 lb. per bushel.
2/ Measured from terminal leaf to base of head.
3/ 1=tight; 2=medium; 3=loose.

Table 7. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at Prattville Experiment Field, Prattville, 1980-81

Brand name	Hybrid	Yield per acre 1/	Lodging	Plant height	Head exsertion 2/	Head type 3/
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	82	0	4.4	5.6	1.8
Coker	7723	82	0	4.4	4.5	1.3
Surgro	ORO-T-XTRA	82	1	4.5	3.6	1.5
Coker	7675	81	0	3.8	3.6	1.6
Funk's	G-522DR	80	1	3.8	3.1	1.4
Surgro	OROXTRA	78	0	3.7	4.8	1.4
Northrup King	SAVANNA 5	78	0	4.7	7.6	1.0
CNS	1334BR	78	0	3.9	3.5	3.0
Northrup King	2670	77	0	4.0	3.1	1.4
Taylor Evans	T-E DINERO	77	0	3.7	3.3	1.3
Funk's	G-611	77	0	3.8	4.0	1.6
Ring Around	733GB	74	0	3.7	5.0	1.9
Funk's	G-550	73	0	3.8	3.3	1.4
Pennington	PENNGRAIN YE	73	0	3.5	3.3	2.0
Dekalb	BR-65+	72	1	4.1	6.4	1.3
Funk's	G-522A	67	0	3.6	4.1	2.3
Taylor Evans	T-E Y101-R	66	0	3.5	4.4	2.0
Pioneer	8311	62	0	3.6	2.9	2.0

1/ Yield adjusted to 14% moisture and 56 lbs. per bushel.
2/ Measured from terminal leaf to base of head.
3/ 1=tight; 2=medium; 3=loose.

Table 8. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Prattville Experiment Field, Prattville, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Coker	7723	90	0	4.4	2.0	6/22	1.0
Pioneer	B815	88	0	4.3	3.8	6/24	1.8
Surgro	ORO-T-XTRA	85	0	4.3	1.8	6/21	1.0
Coker	7675	85	0	3.8	1.8	6/23	1.3
Ring Around	787	84	0	3.9	2.3	6/22	1.0
McCurdy	M57YG	83	0	4.0	2.5	6/23	1.0
Gold Kist	GK802G	82	0	3.6	2.0	6/23	1.0
Taylor Evans	T-E DINERO	81	0	3.5	1.5	6/23	1.0
Northrup King	2670	80	0	3.9	1.8	6/22	1.0
Pennington	PENNGRAIN DINERO	80	0	3.6	1.5	6/21	1.3
Funk's	G-522DR	80	0	3.7	2.3	6/24	1.0
Surgro	OROXTRA	78	0	3.6	3.0	6/21	1.0
Northrup King	SAVANNA 5	77	0	4.6	5.8	6/21	1.0
Gold Kist	GK712G	77	0	3.5	2.8	6/21	1.8
Funk's	G-611	77	0	3.6	2.5	6/23	1.3
Coker	7737	76	0	4.0	1.0	6/24	1.0
P-A-G	6658	76	0	3.9	3.3	6/23	1.8
Funk's	G-1516BR	74	0	3.8	2.8	6/23	2.0
CNS	1334BR	73	0	3.6	2.5	6/21	3.0
Dekalb	DK-64	73	0	4.1	5.5	6/20	1.5
Dekalb	DK-42Y	73	0	3.6	4.5	6/20	1.5
Ring Around	733GB	72	0	3.5	3.5	6/22	1.8
Pennington	PENNGRAIN YE	71	0	3.4	2.3	6/21	2.0
Funk's	G-550	68	0	3.8	3.3	6/19	1.0
CNS	1290	68	0	3.4	3.3	6/20	1.0
Hunt	HT-128GDR	68	0	3.8	3.3	6/22	1.0
Hunt	HT-126 DR	68	0	3.8	3.3	6/18	1.0

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Table 8. Yield and Other Characteristics of Grain Sorghum Hybrids at the Prattville Experiment Field, Prattville, 1981

Brand name	Hybrid	Yield per acre 1/	Lodging	Plant height	Head exsertion 2/	Mid-bloom	Head Type 3/
		Bu.	Pct.	Ft.	In.	Date	Rating
Taylor Evans	T-E Y101-R	67	0	3.5	3.0	6/21	2.0
Ring Around	807	65	0	3.6	2.5	6/21	1.5
Dekalb	BR-65+	65	0	3.9	3.8	6/21	1.0
Funk's	G-522A	64	0	3.3	2.3	6/23	2.0
Pioneer	8311	64	0	3.6	1.5	6/23	2.0
Northrup King	2779	63	0	3.4	3.0	6/21	1.8
McCurdy	M51YG	62	0	3.3	1.2	6/20	2.0
P-A-G	5550	59	0	3.4	1.5	6/23	1.0
Test Average:		74					
L.S.D. (.05):		7					
C.V. (%):		8.5					

1/ Yield adjusted to 14% moisture and 56 lb. per bushel.
2/ Measured from terminal leaf to base of head.
3/ 1=tight; 2=medium; 3=loose.

Planted: April 9, 1981
Plot size: 2 rows, 20 feet long, 36-inch row spacing.
Nitrogen rate: 120 lb. (N/A), split application.
Herbicide: Milogard.

Table 9. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Black Belt Substation, Marion Junction, 1979-81

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Head type[3]
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	61	0	4.3	2.5	2.3
Coker	7675	60	0	3.5	2.6	1.9
Ring Around	733GB	57	0	3.3	2.6	2.3
Surgro	OROXTRA	57	0	3.6	3.0	1.8
Northrup King	SAVANNA 5	56	0	4.7	5.5	1.0
Surgro	ORO-T-XTRA	55	0	4.3	3.4	1.8
Pennington	PENNGRAIN YE	54	0	3.4	3.0	2.2
Funk's	G-522DR	53	0	3.5	2.2	1.9
Taylor Evans	T-E DINERO	52	0	3.5	2.4	1.9
CNS	1334BR	52	0	3.8	3.7	3.0
Taylor Evans	T-E Y101-R	51	0	3.3	3.4	2.1
Pioneer	8311	48	0	3.5	2.1	2.3
Funk's	G-522A	45	0	3.3	2.4	2.6
Dekalb	BR-65+	44	0	4.0	5.6	1.6
Funk's	G-611	44	0	3.6	2.8	2.3

1/ Yield 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.

Table 10. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Black Belt Substation, Marion Junction, 1980-81

Brand name	Hybrid	Yield per acre[1/]	Lodging	Plant height	Head exsertion[2/]	Head type[3/]
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	72	0	4.2	1.9	2.5
Northrup King	SAVANNA 5	67	0	4.5	4.8	1.0
Coker	7675	66	0	3.3	2.0	1.9
Surgro	OROXTRA	65	0	3.4	2.5	1.8
CNS	1334BR	63	0	3.6	3.0	3.0
Ring Around	733GB	61	0	3.1	1.9	2.5
Coker	7723	61	0	3.9	2.5	2.0
Funk's	G-522DR	61	0	3.3	2.0	1.9
Surgro	ORO-T-XTRA	61	0	3.9	2.6	2.0
Taylor Evans	T-E DINERO	60	0	3.2	2.3	2.0
Northrup King	2670	60	0	3.6	1.9	1.8
Pennington	PENNGRAIN YE	60	0	3.1	2.3	2.3
Pioneer	8311	57	0	3.4	2.0	2.5
Taylor Evans	T-E Y101-R	57	0	3.1	2.9	2.1
Funk's	G-550	53	0	3.2	1.5	2.0
Funk's	G-611	52	0	3.5	2.4	2.5
Dekalb	BR-65+	49	0	3.8	5.1	1.6
Funk's	G-522A	48	0	3.0	1.8	2.9

1/ Yield 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.

Table 11. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, Marion Junction, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]	Grain damage estimate
		Bu.	Pct.	Ft.	In.	Date	Rating	Pct.
Coker	7675	86	0	3.1	1.3	6/23	1.8	9
Surgro	OROXTRA	85	0	3.3	1.8	6/24	1.8	4
Gold Kist	GK802G	85	0	3.3	1.3	6/23	2.0	4
Pioneer	B815	80	0	4.1	1.5	6/27	3.0	4
Pennington	PENNGRAIN DINERO	80	0	3.2	2.3	6/26	2.0	8
Surgro	ORO-T-XTRA	79	0	3.9	1.8	6/25	2.0	5
Ring Around	733GB	79	0	3.0	1.3	6/24	2.5	6
Coker	7723	78	0	3.8	1.0	6/27	2.0	9
Ring Around	787	77	0	3.6	2.0	6/23	1.8	4
CNS	1290	77	0	3.1	2.3	6/24	2.3	5
Gold Kist	GK712G	75	0	3.0	2.0	6/23	2.0	6
Taylor Evans	T-E DINERO	75	0	3.0	1.5	6/27	2.0	8
Northrup King	SAVANNA 5	75	0	4.2	5.8	6/21	1.0	2
Northrup King	2670	75	0	3.6	1.8	6/24	1.5	4
Pennington	PENNGRAIN YE	74	0	3.1	1.5	6/23	2.3	9
P-A-G	6658	73	0	3.3	1.5	6/28	2.3	8
Taylor Evans	T-E Y101-R	72	0	3.1	2.0	6/22	2.0	10
Hunt	HT-126DR	72	0	3.3	4.0	6/21	1.0	3
Pioneer	8311	72	0	3.4	2.8	6/24	2.5	6
McCurdy	M57YG	71	0	3.4	1.0	6/27	2.0	6
CNS	1334BR	71	0	3.5	3.5	6/21	3.0	2
Funk's	G-550	69	0	3.3	1.3	6/23	2.0	5
Funk's	G-522DR	68	0	3.2	1.3	6/28	2.3	11
Northrup King	2779	67	0	3.1	2.5	6/21	2.3	8
P-A-G	5550	67	0	3.1	1.3	6/27	1.8	6
Dekalb	DK-64	66	0	4.1	5.5	6/22	2.0	6
Hunt	HT-128GDR	65	0	3.6	2.3	6/24	1.0	4
		64	0	3.1	2.8	6/23	2.0	10

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Table 11. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, Marion Junction, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]	Grain damage estimate
		Bu.	Pct.	Ft.	In.	Date	Rating	Pct.
McCurdy	M51YG	64	0	3.1	2.8	6/23	2.0	10
Ring Around	807	63	0	3.4	1.5	6/27	2.5	9
Funk's	G-1516BR	61	0	3.2	1.3	6/27	3.0	9
Funk's	G-611	57	0	3.4	1.3	6/27	2.3	15
Dekalb	BR-65+	57	0	3.7	4.3	6/24	1.5	6
Dekalb	DK-42Y	51	0	3.6	3.0	6/24	2.0	11
Funk's	G-522A	50	0	3.0	1.0	6/29	3.0	15
Coker	7737	48	0	3.4	1.0	7/01	1.5	16
Test average:		70						
L.S.D. (.05):		17						
C. V. (%):		20.2						

1/ Yield 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 8, 1981.
Plot size: 2 rows, 20 feet long, 36-inch row spacing.
Nitrogen rate: 80 lb. (N/A), split application.
Herbicide: Milogard.
Insecticide: Sevin and Diazinon, two and one applications, respectively.

Table 12. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the E. V. Smith Research Center, Shorter, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Dekalb	BR-65+	68	0	4.3	8.5	6/21	1.0
CNS	1290	66	0	3.7	6.5	6/20	2.5
Northrup King	SAVANNA 5	60	1	5.0	11.5	6/20	1.0
Pioneer	B815	58	1	4.6	1.5	6/24	2.3
Funk's	G-550	52	1	3.9	5.5	6/20	1.0
Northrup King	2779	51	0	3.6	7.0	6/20	2.3
Ring Around	733GB	50	1	3.8	5.5	6/20	2.3
Pennington	PENNGRAIN YE	50	1	3.6	8.0	6/21	2.0
Pioneer	8311	49	0	3.6	4.0	6/22	3.0
McCurdy	M51YG	49	0	3.5	6.0	6/19	1.8
Gold Kist	GK712G	48	11	3.6	6.0	6/19	1.5
Taylor Evans	T-E Y101-R	46	1	3.7	7.5	6/23	1.8
Dekalb	DK-42Y	44	13	3.8	9.0	6/21	1.3
Surgro	OROXTRA	43	9	3.8	4.5	6/21	1.3
Ring Around	807	43	0	3.6	4.0	6/22	1.3
Hunt	HT-126DR	40	4	3.6	2.5	6/21	2.5
Coker	7675	40	11	3.7	5.0	6/22	2.0
CNS	1334BR	38	20	4.0	5.5	6/22	3.0
Taylor Evans	T-E DINERO	38	1	3.5	1.0	6/27	1.3
Pennington	PENNGRAIN DINERO	37	0	3.3	0.5	6/27	2.0
Funk's	G-1516BR	37	4	3.8	1.0	6/22	2.8
McCurdy	M57YG	36	30	3.7	2.0	6/23	1.0
Funk's	G-611	36	3	3.7	0.5	6/25	1.5
Gold Kist	GK802G	34	3	3.4	0.0	6/23	1.5
Funk's	G-522DR	32	6	3.3	0.0	6/27	1.5
Ring Around	787	31	6	3.8	2.0	6/23	1.8
Hunt	HT-128GDR	31	5	3.7	0.0	6/27	1.5

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Table 12. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the E. V. Smith Research Center, Shorter, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
P-A-G	5550	30	10	3.4	0.5	6/25	1.8
Coker	7737	27	26	3.6	0.0	6/26	1.8
Funk's	G-522A	27	18	3.2	0.0	6/25	2.8
Northrup King	2670	24	56	4.0	3.0	6/22	1.3
P-A-G	6658	22	35	3.7	2.0	6/24	2.0
Surgro	ORO-T-XTRA	17	58	4.2	2.0	6/21	1.5
Dekalb	DK-64	15	43	3.9	1.0	6/24	2.5
Coker	7723	14	63	4.3	2.5	6/23	1.5
Test average:		40					
L.S.D. (.05):		9					
C.V. (%):		18.1					

1/ Yield 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 8, 1981.
Plot size: 2 rows, 20 feet long, 40-inch row spacing.
Nitrogen rate: 120 lb. (N/A), split application.
Herbicide: Milogard.
Insecticide: Lannate .

Table 13. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Monroeville Experiment Field, Monroeville, 1979-81

Brand name	Hybrid	Yield per acre[1/]	Lodging	Plant height	Head exsertion[2/]	Head type[3/]
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	66	0	4.2	13.6	2.1
Northrup King	SAVANNA 5	64	0	4.3	17.1	1.3
CNS	1334BR	61	0	3.7	14.9	3.0
CNS	1290	59	0	3.4	14.2	1.8
Pennington	PENNGRAIN YE	56	0	3.4	13.8	2.3
Funk's	G-522DR	55	0	3.4	13.1	1.6
Funk's	G-522A	54	0	3.2	13.9	2.3
Taylor Evans	T-E DINERO	53	0	3.4	13.2	1.6
Coker	7675	49	0	3.4	13.5	1.7
Funk's	G-611	48	0	3.6	14.3	1.7
Dekalb	D-42A	46	0	3.3	15.1	2.0
Surgro	ORO-T-XTRA	46	1	3.9	12.0	1.6

1/ Yield 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.

Table 14. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at Monroeville Experiment Field, Monroeville, 1980-81

Brand name	Hybrid	Yield per acre 1/	Lodging	Plant height	Head exsertion 2/	Head type 3/
		Bu.	Pct.	Ft.	In.	Rating
Pioneer	B815	74	0	4.5	14.4	1.9
CNS	1290	73	0	3.7	16.3	1.6
Northrup King	SAVANNA 5	73	1	4.7	17.1	1.5
Surgro	OROXTRA	72	0	3.8	14.0	1.6
CNS	1334BR	71	0	4.1	14.4	3.0
Pennington	PENNGRAIN YE	70	0	3.7	15.8	2.1
Taylor Evans	T-E DINERO	69	0	3.8	14.8	1.5
Funk's	G-522A	68	0	3.5	14.9	2.3
Funk's	G-550	67	1	4.1	13.3	1.4
Funk's	G-522DR	66	0	3.8	14.1	1.5
Coker	7737	65	0	4.1	13.1	1.5
Ring Around	733GB	65	0	3.8	15.1	2.1
Funk's	G-611	62	0	4.0	14.5	1.6
Northrup King	2779	61	0	3.8	16.3	2.1
Coker	7675	61	0	3.7	14.3	1.6
Dekalb	D-42A	58	0	3.7	15.6	2.0
Surgro	ORO-T-XTRA	56	1	4.1	12.5	1.5

1/ Yield 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.

Table 15. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Monroeville Experiment Field, Monroeville, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Taylor Evans	T-E DINERO-R	65	3	4.3	14.8	6/17	1/3
McCurdy	937YG	64	0	3.9	15.8	6/17	1.0
CNS	1290	62	0	4.0	15.8	6/17	1.3
Pioneer	B815	61	1	4.5	13.5	6/22	1.8
Pennington	PENNGRAIN YE	61	1	3.9	16.0	6/18	1.5
Northrup King	SAVANNA 5	60	1	4.7	16.0	6/20	1.0
Taylor Evans	T-E DINERO	59	0	4.0	14.8	6/20	1.0
McCurdy	M57YG	59	0	4.2	12.8	6/21	1.3
Funk's	G-550	58	2	4.3	12.8	6/16	1.0
Surgro	OROXTRA	58	0	4.0	13.5	6/19	1.3
Ring Around	733GB	57	0	4.0	14.5	6/19	1.8
Surgro	ORO-G-XTRA	56	1	4.3	12.8	6/20	1.0
Coker	7675	56	0	3.8	13.5	6/21	1.0
Gold Kist	GK802G	56	0	4.0	14.5	6/20	1.0
Hunt	HT-128GDR	55	0	4.3	13.0	6/20	1.5
Coker	7737	55	0	4.3	12.0	6/22	1.0
Funk's	G-522DR	55	0	4.0	12.8	6/21	1.0
Dekalb	DK-42Y	55	0	4.2	15.5	6/17	1.0
Northrup King	2779	54	0	4.0	15.5	6/17	1.8
CNS	1334BR	53	1	4.1	12.5	6/20	3.0
Funk's	G-611	53	0	4.1	13.8	6/21	1.0
Pennington	PENNGRAIN DINERO	53	0	3.8	12.5	6/22	1.3
Funk's	G-522A	53	0	3.5	14.0	6/20	2.0
Pioneer	8311	53	1	3.9	10.8	6/19	1.3
Ring Around	787	53	1	4.2	13.8	6/20	1.0
P-A-G	5550	52	0	4.1	12.8	6/20	1.0
P-A-G	6658	52	0	4.5	14.8	6/19	1.8

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Table 15. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Monroeville Experiment Field, Monroeville, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Ring Around	807	51	1	4.2	12.8	6/21	1.0
Hunt	HT-126DR	51	0	4.1	14.3	6/17	1.0
Surgro	ORO-T-XTRA	46	1	3.7	9.8	6/21	1.0
Coker	7723	45	1	4.9	13.3	6/20	1.3
Funk's	G-1516BR	43	1	4.0	13.5	6/22	2.5
Northrup King	2670	43	1	4.6	15.0	6/18	1.0
Dekalb	DK-64	41	2	4.6	15.3	6/20	1.3
Dekalb	D-42A	41	0	3.6	14.3	6/16	2.0
Test average:		54					
L.S.D. (.05):		11					
C.V. (%):		17.8					

1/ Yield 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 14, 1981.
Plot size: 2 rows, 20 feet long, 36-inch row spacing.
Nitrogen rate: 90 lb. (N/A), split application.
Herbicide: Aatrex.
Insecticide: Sevin, three applications.

Table 16. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Wiregrass Substation, Headland, 1979-81

Brand name	Hybrid	Yield per acre[1/]	Lodging	Plant height	Head exsertion[2/]	Head type[3/]
		Bu.	Pct.	Ft.	In.	Rating
Funk's	G-522A	72	1	3.2	4.9	2.7
Surgro	ORO-T-XTRA	70	1	3.8	5.0	1.4
Coker	7675	70	0	3.3	5.5	1.8
Dekalb	D-42A	69	0	3.0	4.8	2.1
Pennington	PENNGRAIN YE	66	0	3.2	5.5	2.8
CNS	1290	66	0	3.2	4.9	1.7
Funk's	G-522DR	64	0	3.2	5.4	1.8
Taylor Evans	T-E DINERO	63	0	3.2	4.9	1.8
CNS	1334BR	63	0	3.6	4.9	3.0
Funk's	G-611	61	0	3.5	4.5	2.2
Pioneer	B815	58	0	3.8	5.4	3.0
Northrup King	SAVANNA 5	49	1	4.1	7.5	1.2

1/ Yield adjusted to 14% moisture and 56 lb. per bushel.
2/ Measured from terminal leaf to base of the head.
3/ 1=tight; 2=measured; 3=loose.

Table 17. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Wiregrass Substation, Headland, 1980-81

Brand name	Hybrid	Yield per acre[1/]	Lodging	Plant height	Head exsertion[2/]	Head type[3/]
		Bu.	Pct.	Ft.	In.	Rating
Funk's	G-522A	71	2	3.3	5.9	2.8
Coker	7675	69	0	3.4	6.8	1.9
Surgro	ORO-T-XTRA	68	0	3.8	5.5	1.6
Surgro	OROXTRA	68	1	3.4	6.3	1.8
Dekalb	D-42A	67	0	3.2	6.0	2.1
Funk's	G-522DR	65	0	3.4	6.6	2.0
CNS	1290	65	0	3.2	5.9	1.8
Ring Around	733GB	64	0	3.3	5.9	2.9
Coker	7737	64	0	3.3	5.0	1.5
Pennington	PENNGRAIN YE	63	0	3.4	7.0	2.9
CNS	1334BR	60	0	3.8	5.9	3.0
Taylor Evans	T-E DINERO	60	0	3.3	5.9	2.0
Funk's	G-611	59	0	3.5	5.3	2.3
Funk's	G-550	58	0	3.2	5.5	1.5
Northrup King	2779	58	0	3.2	6.6	2.8
Pioneer	B815	51	0	3.9	6.1	3.0
Northrup King	SAVANNA 5	46	2	4.0	7.6	1.3

1/ Yield 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.

Table 18. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Wiregrass Substation, Headland, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
Coker	7675	81	0	3.7	4.5	6/9	2.5
Surgro	OROXTRA	80	1	3.9	4.0	6/10	2.0
CNS	1334BR	79	0	3.9	4.0	6/8	3.0
Surgro	ORO-T-XTRA	75	0	4.1	2.5	6/12	2.0
CNS	1290	75	0	3.5	3.0	6/9	2.0
Gold Kist	GK802G	74	1	3.7	2.5	6/11	3.0
Coker	7723	73	2	4.2	3.5	6/12	2.0
Ring Around	787	73	1	2.2	2.5	6/13	3.0
Funk's	G-522DR	72	0	3.7	3.0	6/12	3.0
P-A-G	6658	72	3	4.0	2.5	6/13	3.0
Funk's	G-522A	71	3	3.5	2.5	6/12	3.0
Pioneer	8311	71	0	3.7	2.5	6/12	3.0
Taylor Evans	T-E DINERO	70	0	3.6	3.0	6/11	2.5
Dekalb	DK-42Y	67	0	3.6	4.5	6/8	2.5
Surgro	ORO-G-XTRA	67	0	3.6	2.5	6/13	2.0
Funk's	G-611	66	1	3.8	4.0	6/12	2.5
Funk's	G-1516BR	66	0	3.8	3.0	6/8	3.0
Pennington	PENNGRAIN DINERO	65	0	3.5	2.0	6/10	3.0
Dekalb	D-42A	65	0	3.4	3.0	6/8	2.5
Pennington	PENNGRAIN YE	65	0	3.7	4.5	6/8	3.0
Coker	7737	64	0	3.4	2.0	6/13	2.0
McCurdy	M57YG	64	3	3.5	2,9	6/14	2.0
Dekalb	DK-64	64	3	3.7	3.0	6/8	3.0
Taylor Evans	T-E DINERO-R	63	2	3.5	3.0	6/10	2.0
Funk's	G-550	62	0	3.5	3.5	6/8	2.0
Ring Around	733GB	62	1	3,5	3,5	6/11	3.0
Pioneer	B815	62	0	4.0	3.0	6/17	3.0

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Table 18. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Wiregrass Substation, Headland, 1981

Brand name	Hybrid	Yield per acre[1]	Lodging	Plant height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu.	Pct.	Ft.	In.	Date	Rating
P-A-G	5550	60	3	3.8	3.5	6/13	2.5
Northrup King	2779	60	0	3.5	4.5	6/8	3.0
Northrup King	2670	59	1	3.8	3.0	6/12	2.0
McCurdy	937YG	59	5	3.3	2.5	6/8	3.0
Northrup King	SAVANNA 5	58	3	4.5	5.5	6/13	1.5
Ring Around	807	56	0	3.7	3.5	6/10	2.5
Hunt	HT-128GDR	44	3	3.8	4.0	6/12	2.0
Hunt	HT-126DR	43	3	3.7	3.0	6/8	2.0
Test average:		66					
L.S.D. (.05):		11					
C.V. (%):		14.5					

1/ Yield 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 9, 1981.
Plot size: 2 rows, 20 feet long, 36-inch row spacing.
Nitrogen date: 120 lb. (N/A), split application.
Herbicide: Milogard.
Insecticide: Ethyl parathion, and Lannate, two applications of each.

Table 19. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Gulf Coast Substation, Fairhope, 1979-81

Brand name	Hybrid	Yield per acre [1]	Lodging	Plant height	Head exsertion [2]	Head type [3]
		Bu.	Pct.	Ft.	In.	Rating
Northrup King	SAVANNA 5	93	3	5.0	8.0	1.0
Coker	7675	92	0	4.0	5.1	1.5
Funk's	G-552DR	91	0	3.9	5.2	1.5
Taylor Evans	T-E DINERO	89	0	4.0	5.9	1.4
Pioneer	B815	88	1	4.5	4.3	2.2
CNS	1334BR	87	1	4.2	6.3	3.0
CNS	1290	86	0	3.8	6.8	1.9
Funk's	G-522A	84	0	3.9	6.4	2.7
Funk's	G-611	84	0	4.1	5.5	2.3
Surgro	ORO-T-XTRA	82	1	4.8	5.4	1.7
Dekalb	D-42A	81	1	3.6	3.5	2.3
Pennington	PENNGRAIN YE	79	0	3.7	5.5	2.6

1/ Yield 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.

Table 20. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Gulf Coast Substation, Fairhope 1980-81

Brand name	Hybrid	Yield per acre 1/	Lodging	Plant height	Head exsertion 2/	Head type 3/
		Bu.	Pct.	Ft.	In.	Rating
Northrup King	SAVANNA 5	109	2	5.0	7.4	1.0
Coker	7675	107	0	4.2	4.6	1.6
Funk's	G-552DR	107	0	4.2	4.4	1.6
Taylor Evans	T-E DINERO	106	0	4.3	6.0	1.5
Coker	7737	103	0	4.4	2.5	1.3
Surgro	OROXTRA	103	0	4.1	4.5	1.6
CNS	1290	102	0	4.2	7.5	2.1
Funk's	G-522A	100	0	4.1	6.8	2.6
CNS	1334BR	98	0	4.5	6.4	3.0
Funk's	G-611	97	0	4.5	5.8	2.4
Pioneer	B815	96	0	4.8	3.6	2.1
Ring Around	733GB	95	0	3.8	5.6	2.3
Dekalb	D-42A	94	0	3.9	3.1	2.4
Pennington	PENNGRAIN YE	92	0	4.0	5.4	2.5
Funk's	G-550	92	1	4.3	4.1	1.1
Northrup King	2779	91	1	4.0	6.4	2.5
Surgro	ORO-T-XTRA	90	1	5.1	5.6	1.8

1/ Yield 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.

Table 21. Yield and Other Characteristics of Grain Sorghum Hybrids at the Gulf Coast Substation, Fairhope, 1981

Brand name	Hybrid	Yield per acre[1/]	Lodging	Plant height	Head exsertion[2/]	Mid-bloom	Head type[3/]
		Bu.	Pct.	Ft.	In.	Date	Rating
Northrup King	SAVANNA 5	104	4	5.1	10.3	6/1	1.0
Coker	7675	101	0	3.9	5.8	6/3	2.0
Funk's	G-1516BR	95	1	4.2	6.3	6/5	3.0
McCurdy	M57YG	95	0	4.3	5.3	6/5	1.5
CNS	1290	94	0	4.0	6.8	6/4	2.8
Taylor Evans	T-E DINERO	93	0	4.0	6.0	6/4	1.8
Gold Kist	GK802G	93	1	4.0	5.8	6/5	1.8
Northrup King	2670	93	2	4.6	7.3	6/5	2.5
Dekalb	DK-64	92	2	4.8	6.8	6/7	2.0
Funk's	G-552DR	92	0	4.0	6.8	6/5	2.0
Funk's	G-522A	89	0	3.9	8.0	6/3	3.0
Pennington	PENNGRAIN DINERO	89	1	4.0	7.0	6/4	1.8
Coker	7737	89	1	4.2	3.3	6/7	1.5
Hunt	HT-126DR	89	0	4.0	6.8	6/1	1.0
Taylor Evans	T-E DINERO-R	89	0	4.0	4.8	6/4	2.0
Surgro	OROXTRA	88	0	3.9	5.8	6/4	2.0
Hunt	HT-128GDR	88	2	4.5	5.5	6/4	1.0
Surgro	ORO-T-XTRA	88	2	4.8	6.3	6/5	2.3
Funk's	G-611	88	0	4.3	6.8	6/7	2.8
Ring Around	787	86	0	4.3	5.5	6/7	1.5
Pennington	PENNGRAIN YE	86	0	3.9	7.8	6/3	2.5
Coker	7723	85	3	5.0	6.3	6/5	2.0
CNS	1334BR	85	1	4.2	7.8	6/6	3.0
Ring Around	807	85	3	3.8	5.8	6/6	1.5
P-A-G	6658	85	2	4.2	5.8	6/5	2.8
Surgro	ORO-G-XTRA	83	0	4.4	5.3	6/6	1.5

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Table 21. Yield and Other Characteristics of Grain Sorghum Hybrids at the Gulf Coast Substation, Fairhope, 1981

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	8311	83	1	4.0	5.0	6/3	2.3
Funk's	G-550	83	1	4.1	5.5	6/6	1.3
Pioneer	B815	83	0	4.7	5.0	6/6	2.8
Northrup King	2779	83	1	3.9	7.5	6/2	3.0
McCurdy	937YG	82	0	3.8	8.8	6/1	1.8
Ring Around	733GB	80	0	3.6	5.5	6/4	2.5
Dekalb	D-42A	77	1	4.0	5.0	6/4	2.8
P-A-G	5550	76	1	3.9	3.8	6/5	1.8
Dekalb	DK-42Y	75	2	3.9	8.3	6/6	1.8
Test Average		88					
L.S.D. (.05):		9					
C. V. (%):		8.0					

1/ Yield 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: March 25, 1981.
Plot size: 2 rows, 20 feet long, 36-inch row spacing.
Nitrogen rate: 80 lb. (N/A), split application.
Herbicide: Atrazine.

Sources of Seed for the 1981 Grain Sorghum Tests

Entry designation	Source of Seed
CNS	Chem Nut, Inc.
1290	P. O. Box 3706
*1334BR	Albany, Georgia
Coker	Coker's Pedigreed Seed Company
7675	Route 1, Box 150
7723	Lubbock, Texas
7737	
Dekalb	Dekalb Ag. Research, Inc.
*BR-65+	Route 2
D-42A	Lubbock, Texas
DK-42Y	
DK-64	
Funk's	Louisiana Seed Company, Inc.
G-522A	P. O. Box 1867
G-522DR	Plainview, Texas
G-550	
G-611	
*G-1516BR	
Gold Kist	Gold Kist, Inc.
GK 552G	P. O. Box 644
GK 712G	Ashburn, Ga.
GK 802G	
Hunt	Hunt Seed Company, Inc.
HT-126DR	622 28th Street
HT-128GDR	Lubbock, Texas
McCurdy	McCurdy Seed Company
937YG	Fremont, Iowa
M51YG	
M57YG	
Northrup King	Northrup King Company
*SAVANNA 5	P. O. Box 151
2670	Columbus, Mississippi
2779	
P-A-G	PAG Seeds
5550	P. O. Box 9480
6658	Minneapolis, Mn.

Pennington	Pennington Seed, Inc.
PENNGRAIN DINERO	P. O. Box 290
PENNGRAIN YE	Madison, Georgia
Pioneer	Pioneer Hi-Bred International, Inc.
*B815	1000 West Jefferson Street
8311	Tipton, Indiana
Ring Around	Ring Around Products, Inc.
733GB	P. O. Box 589
787	Montgomery, Alabama
807	
Surgro	R. C. Young Seed and Grain Co.
ORO XTRA	624 27th Street
ORO-G-XTRA	Lubbock, Texas
ORO-T-XTRA	
Taylor-Evans	Taylor-Evans Seed Co.
T-E DINERO	P. O. Box 68
T-E DINERO-R	Tulia, Texas
R-E Y101-R	

*Bird resistant hybrid

ACCEPTABLE HYBRIDS FOR 1982

All of the acceptable hybrids are not equal in performance. It is suggested that individual location data of 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 [2]

Brand name	Hybrid
CNS	1334BR [3]
Northrup King	SAVANNA 5 [1]
Pioneer	B815 [3]

Non-bird resistant

Brand name	Hybrid
Coker	7675
Funk's	G-522A
Funk's	G-522DR
McCurdy	M51YG
Pennington	PENNGRAIN YE
Surgro	ORO XTRA
Taylor-Evans	T-E Y101-R [1]

CENTRAL ALABAMA

Bird resistant [2]

Brand name	Hybrid
CNS	1334BR
Dekalb	BR-65+ [1]
Northrup King	SAVANNA 5
Pioneer	B815

Non-bird resistant

Brand name	Hybrid
Coker	7675
Funk's	G-522A [1]
Funk's	G-522DR
Pennington	PENNGRAIN YE
Ring Around	733GB
Surgro	ORO XTRA
Surgro	ORO-T-XTRA
Taylor-Evans	T-E DINERO
Taylor-Evans	T-E Y101-R [1]

SOUTHERN ALABAMA

Bird resistant [2]

Brand name	Hybrid
CNS	1334BR
Northrup King	SAVANNA 5
Pioneer	B815

Non-bird resistant

Brand name	Hybrid
CNS	1290
Coker	7675
Funk's	G-522A
Funk's	G-522DR
Pennington	PENNGRAIN YE [1]
Taylor-Evans	T-E DINERO

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

[2] Bird resistant hybrids may be difficult to market, and may also have lower feeding value than non-bird resistant hybrids.

[3] This hybrid was found to be acceptable at Crossville, based on 3-year average yields at the Sand Mountain Substation.

Information contained herein is available to all persons regardless of race, color, sex, or national origin.