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Performance of Grain Sorghum Hybrids in Alabama

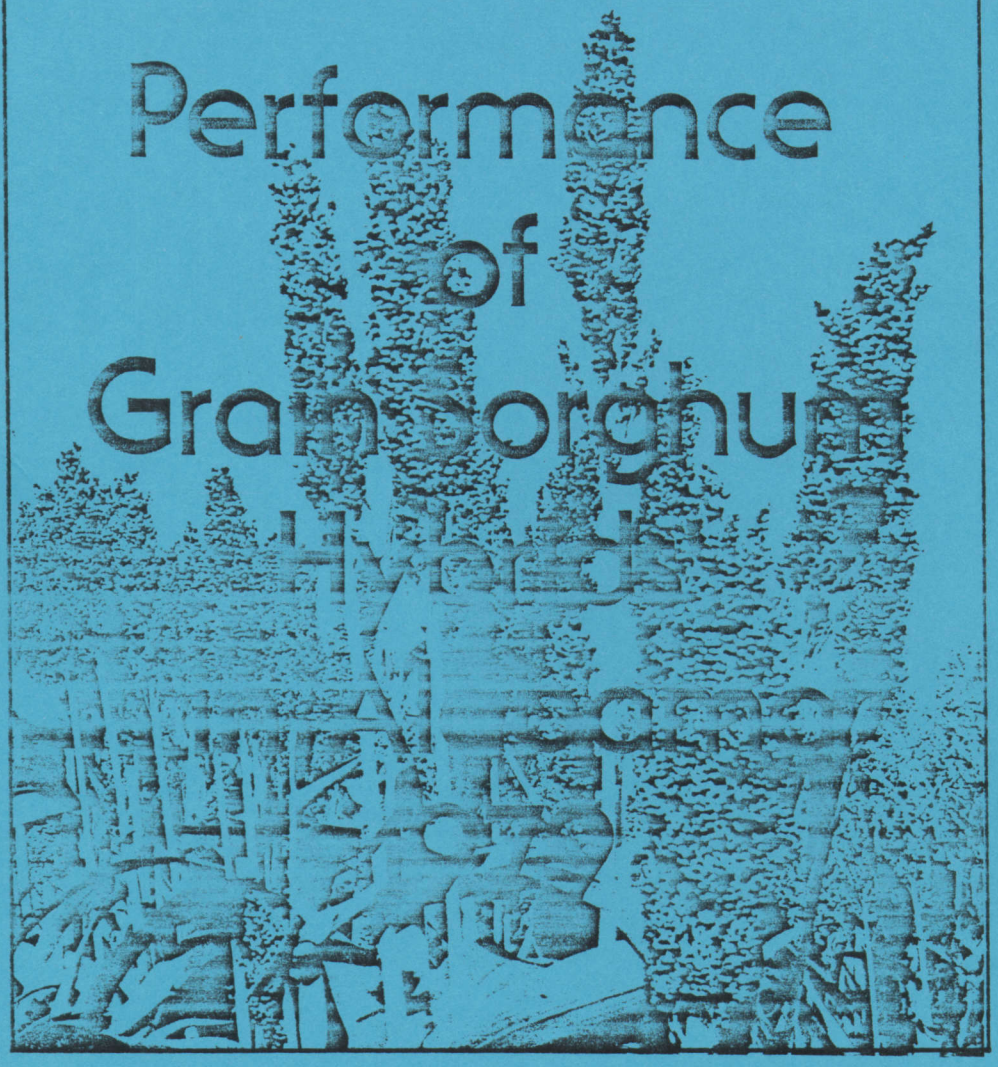

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TABLE OF CONTENTS

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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 1979 tests were planted at eight locations. Grain yields were high at Crossville, Headland, and Fairhope, intermediate at Winfield, and low at Marion Junction and Monroeville. Bagged head estimates of yield from Prattville and Camden were high. Factors mainly responsible for low yields were inadequate rainfall during the season and insect and disease damage. Bird damage estimates were high at Prattville and Camden. Due to extensive damage from drought and insects, data from Marion Junction were not reported in 1977. Three-year averages were obtained for this location by averaging data from 1976, 1978, and 1979.

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 3, 4, 7, 10, 13, 16, 19, and 22.

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Sources of seed used in the tests are listed on pages 38 and 39 .

Data

Yield

Grain yields are given in bushels per acre adjusted to 14% moisture at 56 pounds per bushel. At Prattville and Camden yields were calculated from 10 heads per plot. The heads were selected at random and protected from bird damage by covering with perforated paper bags soon after blooming. Plot yields were then calculated by multiplying the average weight of grain per head obtained from the 10 bagged heads times the number of heads per plot. At other locations yields were calculated from the weight of grain obtained from harvesting the whole plot. At Crossville, Camden, Monroeville, and Fairhope plots were harvested with a plot combine. At all other locations, plots were hand harvested and heads sent to Auburn where they were threshed on a stationary thresher prior to weighing.

Bird damage

Visual estimates of bird damage were made at all locations. Where plot yields are reported, estimates of bird damage can be used to indicate the amount of grain loss caused by birds and to compare the bird damage of the various hybrids. However, when bagged head estimates of yield are shown, estimates of bird damage are not estimates of yield reduction. In this case, estimates of bird damage only give relative comparisons among hybrids for bird damage. When estimates of bird damage are not shown, no significant bird damage occurred at the locatio during the year(s) involved.

In selecting a hybrid, one should consider bird populations present

in relation to the size of area to be planted. Bird damage can be a major problem on small field plantings. If bird damage is anticipated, hybrids with low estimates of bird damage should be used.

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 many lodged plants would be missed by a combine. However, they are included in the yields of hand harvested plots in this report.

Plant Height

Plant height was measured from the soil surface at the base of the plant to the tip of the head. Poor head exsertion may result in excessive green plant material in the harvested grain, as well as damage to the lower part of the head resulting from water accumulating at the terminal leaf.

Head Type

Open or loose heads may be important in the Southeastern United States. Open heads allow better air movement and faster drying after rains or dew. This 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 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 3, 4, 7, 10, 13, 16, 19, and 22.

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. Also, some variation may be due to the relatively small samples obtained from the 10-head sampling method described earlier. 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 for comparing yields at each location in 1979. The difference in yields between two hybrids much exceed the L.S.D. value to be considered significantly different. The C.V., coefficient of variation, 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. Then the acceptable hybrid list is tabulated by combining 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

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

Table 1. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Upper Coastal Plain Substation, Winfield, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]
		Bu/A	Pct.	Ft.	In.	Rating
Growers	GSA-1180	50.1	0	2.7	3.4	2.0
Surgro	ORO	49.8	0	2.5	1.9	2.5
Northrup, King	Savanna 5	49.5	8	3.4	5.4	1.9
Funk's	G-522	48.7	2	2.5	2.1	2.4
Funk's	G-522DR	46.9	0	2.7	1.9	2.2
McCurdy	M51YG	46.9	1	2.5	2.3	2.4
Taylor-Evans	T-E Y101-R	46.0	1	2.7	2.2	2.3
DeKalb	BR-65+	44.8	0	3.1	5.5	2.0
Growers	ML-135	44.3	1	2.6	1.9	2.4
Growers	GSA 1334 BR	42.3	4	2.7	2.9	2.8
Funk's	G-516BR	41.3	2	2.7	2.9	2.8
Pioneer	B815	41.0	18	3.4	4.1	2.3

[1/] Measured from terminal leaf to base of the head.
[2/] 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, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]
		Bu/A	Pct.	Ft.	In.	Rating
Surgro	ORO	57.5	0	2.8	2.1	2.3
Pennington	Penngrain YE	56.8	6	2.9	2.3	2.1
Growers	GSA-1180	54.5	0	3.0	3.1	1.5
Funk's	G-522	53.4	3	2.8	2.0	2.1
Northrup, King	Savanna 5	53.3	13	3.9	5.5	1.4
Ring Around	808 GB	53.0	0	3.1	2.0	1.9
Taylor-Evans	T-E Y101-R	52.4	2	3.1	2.5	2.0
Coker	7675	52.3	1	3.0	1.5	1.5
McCurdy	M51YG	52.1	2	2.9	2.3	2.1
Warner	W-744DR	51.2	3	3.3	2.3	2.5
Taylor-Evans	T-E Dinero	50.9	1	2.8	2.0	1.8
Growers	ML-135	49.9	2	2.9	2.0	2.1
Funk's	G-522DR	49.5	1	3.0	2.0	1.8
McCurdy	Birds-Off 91AYG	48.6	0	3.2	2.3	2.5
DeKalb	BR-65+	47.2	0	3.4	4.6	1.5
McCurdy	M53YG	44.8	5	3.1	3.0	1.9
Growers	GSA 1334 BR	43.5	6	3.0	2.9	2.8
Funk's	G-516BR	43.4	3	3.0	3.1	2.6
Pioneer	B815	42.2	28	3.7	3.8	2.0
Paymaster	DR 1035	41.3	0	3.0	2.5	2.0
Paymaster	BRY-93	39.9	21	3.2	3.0	2.4

[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 at the Upper Coastal Plain Substation, Winfield, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Pennington	Penngrain YE	64.7	0	2.3	1.8	7/4	2.3
Paymaster	DR 1085	62.6	0	2.6	2.8	7/2	1.3
Coker	7675	61.6	0	2.5	1.8	7/6	1.0
Surgro	ORO XTRA	58.7	0	2.5	1.3	7/4	1.3
McCurdy	M51YG	57.9	0	2.4	2.0	7/2	2.0
Surgro	ORO	57.2	0	2.3	2.0	7/2	2.5
Taylor-Evans	T-E Y101-D	57.0	0	2.7	2.0	7/3	2.0
Ring Around	787	56.6	0	2.8	2.3	7/6	1.5
Funk's	G-522	56.3	0	2.3	1.5	7/2	2.3
Funk's	G-522DR	56.0	0	2.8	2.0	7/7	1.5
Northrup, King	Savanna 5	54.9	1	3.0	3.5	7/2	1.0
Ring Around	808GB	54.7	0	2.6	1.5	7/4	2.0
Taylor-Evans	T-E Dinero	53.6	0	2.3	1.8	7/7	1.5
Taylor-Evans	T-E Y101-R	52.7	0	2.5	1.8	7/5	2.0
McCurdy	Birds-Off 91AYG	52.0	0	2.6	2.0	7/5	3.0
Ring Around	733 GB	51.6	0	2.3	1.5	7/4	2.0
Growers	GSA-1180	51.2	0	2.5	3.3	7/2	1.3
Growers	GSA-1290	50.6	0	2.4	2.3	7/2	1.5
McNair	6193	50.5	0	2.6	2.8	7/2	1.0
DeKalb	BR-65+	50.4	0	2.8	4.3	7/3	1.0
Growers	ML-135	50.1	0	2.3	1.5	7/2	2.3
Funk's	G-611	49.7	0	2.7	2.5	7/6	2.3
Paymaster	R-1090	48.7	0	2.5	2.3	7/4	2.8
Pioneer	8311	48.3	1	2.7	2.5	7/2	1.8
McCurdy	M53YG	46.6	0	2.6	2.3	7/2	1.8

Table 3. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Upper Coastal Plain Substation, Winfield, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Coker	7681BR	46.5	0	2.6	2.0	7/7	2.5
Pioneer	B815	46.3	0	3.1	4.3	7/10	1.8
Ring Around	811A GB	45.7	0	2.8	2.8	7/6	2.0
Northrup, King	2778	45.3	0	2.5	3.0	7/2	2.0
Funk's	1762	43.3	1	2.3	1.8	7/2	3.0
DeKalb	D-42a	43.3	0	2.3	1.5	7/2	2.0
Ring Around	807	39.4	0	2.5	2.8	7/8	2.3
Warner	W-744DR	38.5	0	2.7	2.0	7/10	2.5
Growers	GSA 1334 BR	37.5	0	2.4	3.0	7/3	3.0
McNair	656 BR	35.8	0	2.5	1.8	7/4	3.0
Paymaster	BRY-93	34.2	2	2.6	2.8	7/4	2.8
Paymaster	DR 1035	34.0	0	2.4	2.8	7/2	2.3
Funk's	G-516BR	32.1	0	2.4	2.5	7/6	3.0
Test average:		49.4					
L.S.D. (.05):		13.3					
C.V. (%):		23					

[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 20, 1979.
Plot Size: 2 rows, 20 feet long, 40 inch row spacing.
Nitrogen Rate: 150 lb. (N/A).
Herbicide: Aatrex .

Table 4. Yield and Other Characteristics of Bird Resistant Grain Sorghum Hybrids Tested at the Sand Mountain Substation, Crossville, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Paymaster	BRY-93	104.6	2	3.9	5.6	7/22	2.0
Growers	GSA 1334 BR	101.5	1	3.8	6.5	7/25	2.5
Funk's	G-516 BR	98.6	0	3.9	6.3	7/25	2.8
McNair	656 BR	97.8	1	3.8	5.5	7/23	2.5
Warner	W-744DR	91.9	0	3.8	5.3	7/23	2.3
Northrup, King	Savanna 5	91.6	1	4.3	5.6	7/18	1.0
Coker	7681BR	88.3	0	3.8	5.4	7/25	2.0
DeKalb	BR-65+	86.9	0	4.2	6.9	7/24	1.0
Pioneer	B815	85.4	0	4.2	5.0	7/23	2.0
McCurdy	Birds-Off 91AYG	84.4	1	3.9	5.8	7/23	2.3
Test average:		93.1					
L.S.D. (.05):		9.5					
C.V. (%):		9					

[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 19, 1979.
Plot size: 2 rows, 20 feet long, 36 inch row spacing.
Nitrogen Rate: 110 lb (N/A), split application.
Herbicide: Atrazine.

Table 5. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at Prattville Experiment Field, Prattville, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Pioneer	B815	62.4	1	4.2	5.1	1.9	4
Growers	GSA 1334 BR	60.8	0	3.6	3.8	3.0	1
DeKalb	BR-64	60.1	1	4.5	6.1	2.7	5
Funk's	G-516BR	58.6	0	3.6	2.6	2.8	0
Northrup, King	Savanna 5	55.3	4	4.8	7.0	1.0	2
DeKalb	BR-65+	54.2	0	4.1	5.4	1.4	2
Funk's	G-522DR	52.8	0	3.7	4.6	1.7	14
Surgro	ORO	52.7	0	3.5	3.3	2,3	17
Funk's	G-522	52.6	0	3.4	3.5	2.3	30
Growers	ML-135	50.1	0	3.5	3.0	2.7	19
Taylor-Evans	T-E Y101-R	48.9	0	3.4	4.5	2.1	13
Surgro	ORO T	42.7	23	4.0	3.5	1.7	45

1/Measured from the terminal leaf to the base of the head.
2/1 = tight; 2 = medium; 3 = loose.

Table 6. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Prattville Experiment Field, Prattville, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]	Estimate of bird damage[4/]
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Coker	7681BR	83.2	0	3.9	2.9	2.4	5
Pioneer	B815	81.4	1	4.4	4.0	1.9	7
Paymaster	BRY-93	79.4	1	3.8	3.5	2.5	2
Growers	GSA 1334 BR	78.0	0	3.7	3.0	3.0	2
Warner	W-744DR	76.9	0	3.8	2.9	2.9	3
Funk's	G-516BR	76.5	0	3.6	2.3	2.9	1
DeKalb	BR-65+	71.9	0	4.1	5.5	1.1	3
Taylor-Evans	T-E Dinero	70.9	0	3.6	3.0	1.5	35
DeKalb	BR-64	70.1	2	4.6	5.1	2.6	8
Funk's	G-522DR	69.4	0	3.8	2.9	1.5	20
Pennington	Penngrain YE	66.4	0	3.5	3.1	2.3	17
Northrup, King	Savanna 5	66.1	1	4.7	5.5	1.0	3
DeKalb	DK-54	65.6	3	4.0	1.9	1.3	39
Growers	ML-135	63.8	0	3.5	3.3	2.5	29
Surgro	ORO	63.2	0	3.6	3.0	2.0	23
Funk's	G-522	63.1	0	3.6	3.1	2.3	42
Taylor-Evans	T-E Y101-R	60.7	0	3.5	3.4	1.8	20
McCurdy	Birds-Off 91AYG	60.5	0	3.5	2.8	2.8	2
Ring Around	807	59.7	0	3.6	2.9	1.6	36
Surgro	ORO T	52.0	33	4.1	2.9	1.4	64

[1/] Measured from the terminal leaf to base of the head.
[2/] 1 = tight; 2 = medium; 3 = loose.

Table 7. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Prattville Experiment Field, Prattville, 1979

Brand name	Hybrid	Yield[1] Bu/A	Lodging Pct.	Height Ft.	Head exsertion[2] In.	Mid-bloom Date	Head type[3] Rating	Estimate of bird damage[4] Pct.
Pioneer	B815	98.0	0	4.5	5.3	6/29	1.8	5
Coker	7681BR	97.8	0	4.1	4.0	6/29	2.8	3
Coker	7675	93.8	0	4.0	5.0	6/29	1.3	23
DeKalb	BR-64	90.1	0	4.8	5.5	6/29	3.0	2
Warner	W-744DR	88.3	0	4.0	4.5	6/29	3.0	2
Paymaster	BRY-93	87.5	0	4.1	5.0	6/27	2.8	1
Growers	GSA 1334 BR	83.9	0	3.8	3.5	6/29	3.0	0
Funk's	G-522DR	82.5	0	4.2	4.8	6/29	1.5	21
Funk's	G-516BR	82.2	0	3.8	3.0	6/27	3.0	0
Taylor-Evans	T-E Dinero	80.7	0	3.9	4.0	6/29	1.8	52
Surgro	ORO-T XTRA	78.9	0	4.6	4.8	6/29	1.3	77
Pennington	Penngrain YE	75.2	0	3.7	4.0	6/27	2.3	13
DeKalb	DK-54	75.1	0	4.1	2.8	6/29	1.5	58
Surgro	ORO XTRA	74.1	0	4.0	3.8	6/29	1.3	43
DeKalb	BR-65+	73.3	0	4.3	6.5	6/28	1.0	3
McNair	656 BR	73.2	0	3.7	3.3	6/29	3.0	0
Northrup, King	2884	71.3	0	4.3	5.3	6/28	1.0	88
Surgro	ORO	71.0	0	3.7	3.5	6/27	2.3	18
Funk's	G-522	70.1	0	3.6	3.8	6/27	2.5	51
Northrup, King	Savanna 5	69.7	0	5.0	6.0	6/27	1.0	1
Pioneer	8311	69.5	0	4.0	4.0	6/28	2.0	25
Ring Around	733 GB	68.1	0	3.6	4.5	6/27	1.8	60
Northrup, King	2778	68.0	0	4.0	5.5	6/28	1.8	55
Funk's	G-611	67.8	0	4.1	5.0	7/1	1.8	62

Table 7. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Prattville Experiment Field, Prattville, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage[4]
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
Growers	GSA 1444W	66.7	0	3.9	4.3	7/1	1.0	92
Paymaster	DR 1085	66.3	0	3.6	4.0	6/27	1.3	42
Taylor-Evans	T-E Y101-R	66.3	0	3.5	4.3	6/27	2.0	15
DeKalb	BR-45+	65.9	0	3.7	6.0	6/28	2.0	2
Growers	ML-135	65.3	0	3.5	3.8	6/28	2.5	36
McCurdy	Birds-Off 91AYG	63.1	0	3.6	3.5	7/1	3.0	1
DeKalb	D-42a	62.8	0	3.4	3.8	6/27	2.0	37
McNair	6193	61.8	0	3.8	6.0	6/28	1.0	36
Ring Around	807	61.7	0	3.7	4.0	6/29	1.8	52
Surgro	ORO T	61.0	0	4.4	3.8	6/28	1.5	85
McCurdy	M53YG	60.2	0	3.9	5.0	6/26	1.3	35
Taylor-Evans	T-E Y101-D	57.8	0	4.1	5.0	6/28	1.5	72
Paymaster	R 1090	56.7	0	3.8	4.8	6/27	2.8	60
Funk's	1762	56.5	0	3.3	2.0	6/28	2.8	6
Test average:		72.7						
L.S.D. (.05):		18.2						
C.V. (%):		21						

1/Yields determined from bagged heads and 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.
4/Note: Bagged head estimates of yield removes the influence of bird damage.

Planted: April 23, 1979
Plot size: 2 rows, 30 feet long, 36 inch row spacing.
Nitrogen Rate: 130 lb (N/A).
Herbicide: None.

Table 8. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Black Belt Substation, Marion Junction, 1976, 1978 and 1979[1/]

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[2/]	Head type[3/]
		Bu/A	Pct.	Ft.	In.	Rating
Pennington	Penngrain YE	61.9	0	3.7	4.7	2.3
Funk's	G-516BR	61.7	0	3.9	4.1	3.0
Growers	ML-135	60.9	0	3.6	3.1	2.4
Funk's	G-522	60.7	0	3.6	4.4	2.3
McNair	656 BR	60.5	0	3.9	4.3	3.0
Surgro	ORO T	59.5	2	4.4	4.2	2.0
Surgro	ORO	58.7	0	3.7	4.0	2.4
Growers	GSA 1334 BR	56.7	0	4.0	4.8	2.9
Pioneer	B815	55.3	2	4.4	3.9	1.8

[1/]Data were not reported in 1977 due to drought and insect damage.
[2/]Measured from terminal leaf to base of the head.
[3/]1 = tight; 2 = medium; 3 = loose.

Table 9. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Black Belt Substation, Marion Junction, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1]	Head type[2]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Warner	W-744DR	57.6	0	4.3	3.8	2.2	2
Pennington	Penngrain YE	54.8	0	3.9	5.5	2.1	4
Coker	7675	53.7	0	4.0	4.7	2.0	3
Paymaster	R 1090	53.6	0	4.0	5.2	3.0	2
McNair	656 BR	53.1	0	4.0	4.4	3.0	2
Coker	7681BR	53.1	2	4.4	3.4	2.3	2
Funk's	G-522DR	52.3	0	4.0	3.5	1.9	5
Taylor-Evans	T-E Y101-D	52.1	0	3.9	4.7	2.1	5
Taylor-Evans	T-E Y101-R	51.2	0	3.7	5.1	2.0	4
Funk's	G-522	50.5	0	3.7	4.8	2.1	5
Growers	ML-135	49.3	0	3.7	3.3	2.3	5
Funk's	G-516BR	49.1	0	4.0	4.2	3.0	2
Surgro	ORO	48.8	0	3.8	4.1	2.3	6
Paymaster	DR 1085	48.7	0	3.8	4.4	2.0	7
DeKalb	BR-45+	47.5	0	3.6	5.8	2.0	3
Pioneer	8311	46.1	0	3.7	3.2	2.0	4
Growers	GSA 1334 BR	45.7	0	4.1	4.9	3.0	4
Pioneer	8815	45.2	4	4.5	4.2	2.0	2
McCurdy	M53YG	45.0	2	4.1	4.8	2.0	4
Surgro	ORO T	43.2	3	4.5	4.1	2.0	4
DeKalb	BR-65+	41.3	0	4.4	6.4	1.8	2
Northrup, King	Savanna 5	40.8	5	5.0	7.9	1.0	2
DeKalb	BR-64	32.6	6	4.7	7.2	2.5	6

[1] Measured from terminal leaf to base of the head.
[2] 1 = tight; 2 = medium; 3 = loose.

Table 10. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, Marion Junction, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
Warner	W-744DR	57.9	0	4.2	3.6	7/10	2.3	3
Funk's	1762	49.1	0	3.2	1.9	7/8	2.3	10
Coker	7675	48.5	0	4.0	3.9	7/10	2.0	6
Ring Around	733 GB	47.7	0	3.6	4.0	7/7	2.0	8
Paymaster	BRY-93	46.9	0	4.4	6.0	7/12	2.0	3
Funk's	G-516BR	45.4	0	4.0	4.4	7/11	3.0	3
McNair	656 BR	43.9	0	4.1	4.2	7/10	3.0	3
Coker	7681BR	43.8	0	4.5	3.8	7/11	2.3	3
Pennington	Penngrain YE	43.1	0	3.9	4.4	7/13	2.0	7
Growers	ML-135	42.5	0	3.7	2.9	7/10	2.3	7
McCurdy	M53YG	42.0	0	4.3	4.7	7/9	2.0	6
Paymaster	DR 1085	41.2	0	3.8	4.9	7/6	2.0	11
Surgro	ORO T XTRA	41.2	0	5.0	5.0	7/14	1.3	5
Surgro	ORO XTRA	41.1	0	4.0	4.0	7/10	2.0	7
Taylor-Evans	T-E Y101-D	40.8	0	3.8	3.7	7/9	2.0	6
Paymaster	R 1090	39.0	0	4.1	4.8	7/11	3.0	3
Taylor-Evans	T-E Y101-R	38.2	0	3.8	4.5	7/9	2.0	6
Pioneer	B815	38.0	0	4.4	3.6	7/10	2.0	3
Funk's	G-522	37.9	0	3.7	3.8	7/5	2.0	6
Taylor-Evans	T-E Dinero	37.9	0	3.9	2.7	7/12	1.7	4
DeKalb	DK-54	37.5	0	4.6	3.8	7/10	1.7	6
Funk's	G-522DR	37.1	0	3.9	2.7	7/10	2.0	6
DeKalb	BR-45+	36.1	0	3.4	4.0	7/11	2.0	5
Surgro	ORO T	35.9	0	4.8	3.9	7/12	2.0	5
McNair	6193	35.8	0	3.9	4.2	7/11	2.0	9
McCurdy	Birds-Off 91AYG	35.2	0	4.1	5.2	7/12	3.0	3

Table 10. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Black Belt Substation, Marion Junction, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
DeKalb	BR-64	35.1	0	4.7	5.8	7/8	3.0	7
Northrup, King	2778	34.5	0	4.6	5.7	7/8	2.0	7
Northrup, King	Savanna 5	34.3	0	5.1	7.0	7/12	1.0	3
Surgro	ORO	34.2	0	3.9	2.8	7/7	2.0	8
DeKalb	BR-65+	33.8	0	4.4	6.5	7/10	1.7	3
Pioneer	8311	30.8	0	3.6	2.3	7/12	2.0	6
Growers	GSA 1334 BR	30.0	0	4.3	5.2	7/10	3.0	5
DeKalb	D-42a	29.7	0	3.7	3.4	7/10	2.0	6
Northrup, King	2884	29.0	0	4.6	4.9	7/12	1.3	5
Funk's	G-611	27.0	0	3.9	3.6	7/12	2.0	6
Ring Around	807	24.5	0	3.9	4.4	7/12	2.0	3
Growers	GSA 1444W	23.6	0	4.3	3.7	7/15	2.3	3
Test average:		38.2						
L.S.D. (.05):		11.2						
C.V. (%):		21.6						

[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 20, 1979.
Plot size: 2 rows, 16 feet long, 36 inch row spacing.
Nitrogen Rate: 120 lb (N/A), split application.
Herbicide: Atrazine.

Table 11. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Lower Coastal Plain Substation, Camden, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]
		Bu/A	Pct.	Ft.	In.	Rating
Northrup, King	Savanna 5	71.8	0	3.9	5.0	1.0
Funk's	G-516BR	63.4	0	3.1	2.6	3.0
DeKalb	BR-64	63.1	0	4.0	4.9	2.4
Pioneer	B815	59.8	0	3.7	3.4	1.7
Growers	GSA 1334 BR	56.1	0	3.1	3.0	2.9
Pioneer	8311	54.8	0	3.1	2.2	1.8
Surgro	ORO T	51.4	1	3.3	2.9	2.6
Funk's	G-522	48.1	0	2.9	2.4	2.6
Taylor-Evans	T-E Y101-R	46.0	0	3.1	4.2	2.5
Growers	ML-135	44.8	0	2.9	3.1	2.5
Surgro	ORO	40.3	0	2.9	2.5	2.0

[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 Two Years at the Lower Coastal Plain Substation, Camden, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1]/	Head type[2]/
		Bu/A	Pct.	Ft.	In.	Rating
Northrup, King	Savanna 5	99.0	1	4.0	6.3	1.0
Warner	W-744DR	98.2	1	3.4	2.8	2.3
McCurdy	M53YG	97.6	3	3.1	2.7	2.1
DeKalb	BR-64	95.8	1	4.2	6.0	2.6
Pioneer	B815	94.1	0	3.7	4.4	1.8
DeKalb	BR-45+	90.0	1	3.0	3.9	2.0
Funk's	G-516BR	87.3	0	3.1	3.1	3.0
Growers	GSA 1334 BR	85.9	0	3.1	3.4	2.9
Surgro	ORO T	84.7	3	3.4	3.9	2.6
Taylor-Evans	T-E Y101-D	83.5	1	3.1	3.4	2.3
McCurdy	Birds-Off 91AYG	83.1	0	3.2	4.3	2.5
Pioneer	8311	81.6	0	3.0	2.8	1.6
Paymaster	R 1090	81.4	0	3.1	3.5	3.0
Funk's	G-522	81.0	0	2.9	3.0	2.5
Taylor-Evans	T-E Y101-R	80.5	0	3.2	4.7	2.5
Funk's	G-522DR	76.1	0	3.0	3.7	1.3
Pennington	Penngrain YE	71.5	0	3.0	2.5	2.5
Growers	ML-135	69.0	0	3.0	3.7	2.5
Surgro	ORO	63.2	0	3.0	3.1	1.9
Paymaster	DR 1085	56.7	0	3.0	3.9	1.9

1/Measured from terminal leaf to base of the head.
2/1 = tight; 2 = medium; 3 = loose.

Table 13. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Lower Coastal Plain Substation, Camden, 1979

Brand name	Hybrid	Yield[1] Bu/A	Lodging Pct.	Height Ft.	Head exsertion[2] In.	Mid-bloom Date	Head type[3] Rating	Estimate of bird damage[4] Pct.
DeKalb	BR-64	108.5	3	4.8	7.8	7/2	3.0	29
Coker	7681BR	103.6	0	3.8	4.4	7/1	2.3	31
Growers	GSA 1334 BR	99.3	0	3.4	4.6	6/29	3.0	23
Warner	W-744DR	98.1	1	3.5	2.3	7/1	2.5	31
DeKalb	BR-45+	96.7	1	3.4	5.0	6/28	2.3	26
Pioneer	8815	95.9	0	4.2	4.4	7/1	1.3	26
Northrup, King	Savanna 5	95.6	1	4.7	6.8	6/25	1.0	16
Funk's	G-611	93.1	0	3.7	4.1	7/1	2.0	71
McCurdy	M53YG	91.5	5	3.6	3.4	6/23	1.8	54
McNair	6193	89.8	0	3.3	5.5	7/1	1.3	31
Taylor-Evans	T-E Y101-R	89.0	0	3.9	6.9	6/28	2.3	71
Northrup, King	2778	89.0	1	3.8	4.5	6/24	2.3	49
Northrup, King	2884	88.6	1	4.0	3.6	6/25	2.8	63
Paymaster	DRY-93	87.3	1	3.6	3.8	6/23	2.8	13
DeKalb	BR-65+	86.2	0	4.1	9.0	7/1	1.8	43
Taylor-Evans	T-E Y101-D	85.0	1	3.5	4.0	6/26	2.0	43
Surgro	ORO T XTRA	83.1	1	3.7	2.9	7/1	1.3	70
McCurdy	Birds-Off 91AYG	80.3	0	3.8	5.9	7/2	2.3	29
Funk's	G-516BR	79.4	0	3.5	3.1	6/27	3.0	30
Ring Around	733 GB	76.7	0	3.5	4.3	6/29	3.0	71
DeKalb	D-42a	75.4	0	3.2	3.0	6/23	2.3	38
McNair	656 BR	75.2	0	3.4	3.3	6/29	2.5	28
Funk's	G-522	74.9	0	3.2	3.0	6/28	2.5	68
Ring Around	807	74.7	0	3.7	4.8	7/1	2.3	68
Taylor-Evans	T-E Dinero	74.7	3	3.7	5.1	7/1	1.3	71

Table 13. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Lower Coastal Plain Substation, Camden, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage[4]
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
Surgro	ORO T	73.5	6	4.1	4.5	6/28	2.5	88
Coker	7675	72.5	0	3.4	4.0	6/29	1.3	51
Funk's	G-522DR	71.0	0	3.4	3.8	7/2	1.5	61
Paymaster	R 1090	71.0	0	3.6	4.5	6/27	3.0	56
Pioneer	8311	69.1	0	3.5	3.6	6/28	1.3	56
DeKalb	DK-54	66.3	0	4.2	5.3	7/3	1.8	73
Surgro	ORO XTRA	63.5	0	3.9	4.6	7/1	1.5	70
Pennington	Penngrain YE	62.4	0	3.5	3.4	6/24	2.8	66
Surgro	ORO	61.5	0	3.5	3.9	6/27	2.3	66
Funk's	1762	61.0	1	2.8	2.0	6/25	3.0	55
Growers	GSA 1444W	60.1	0	4.0	4.5	7/2	2.3	83
Growers	ML-135	59.2	0	3.5	4.1	7/1	3.0	79
Paymaster	DR 1085	51.8	0	3.3	4.3	6/25	2.0	66
Test average:		79.9						
L.S.D. (.05):		21.5						
C.V. (%):		23						

1/Yields determined from bagged heads and 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.
4/Note: Bagged head estimates of yield removes the influence of bird damage.

Planted: April 20, 1979.
Plot size: 2 rows, 20 feet long, 36 inch row spacing.
Nitrogen Rate: 80 lb. (N/A).
Herbicide: Milogard . (Propazine).

Table 14. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Monroeville Experiment Field, Monroeville, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1]	Head type[2]
		Bu/A	Pct.	Ft.	In.	Rating
Pioneer	B815	64.2	0	3.9	12.2	1.7
Northrup, King	Savanna 5	60.9	3	4.3	16.3	1.0
Pennington	Penngrain BR	60.4	6	3.4	10.9	2.8
DeKalb	BR-64	57.7	1	4.0	14.9	2.6
Growers	GSA 1334 BR	53.6	0	3.5	13.3	3.0
Funk's	G-516BR	50.7	0	3.5	12.6	2.9
Taylor-Evans	T-E Y101-R	49.7	0	3.2	11.9	1.8
Surgro	ORO T	49.4	3	3.9	11.4	2.1
Growers	ML-135	49.2	0	3.1	11.7	2.3
Funk's	G-522	47.2	0	3.2	11.8	2.1

[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 Two Years at the Monroeville Experiment Field, Monroeville, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Pioneer	B815	53.0	0	3.4	10.5	1.9	3
Northrup, King	Savanna 5	52.5	0	3.6	14.5	1.0	1
Pennington	Penngrain BR	48.9	9	3.0	8.9	2.9	8
McNair	656 BR	44.8	0	2.9	8.4	3.0	2
Growers	GSA 1334 BR	44.6	0	3.0	12.6	3.0	1
Funk's	G-516BR	44.1	0	3.0	10.9	3.0	2
DeKalb	BR-64	44.0	1	3.5	13.5	2.5	4
DeKalb	BR-45+	42.6	0	2.9	11.1	1.5	3
Warner	W-744DR	39.7	0	3.0	10.6	2.1	3
McCurdy	Birds-Off 91AYG	37.0	0	3.2	10.0	3.0	6
Pennington	Penngrain YE	34.2	0	2.8	9.1	2.4	13
Funk's	G-522DR	34.0	0	2.9	9.5	1.5	8
Paymaster	R 1090	33.7	0	2.8	11.4	2.8	10
Taylor-Evans	T-E Y101-R	32.7	0	2.7	10.4	1.8	12
McCurdy	M53YG	30.8	0	2.9	9.3	1.6	8
Funk's	G-522	30.6	0	2.7	10.6	2.1	12
aylor-Evans	T-E Y101-D	29.2	0	2.9	10.4	1.5	13
Surgro	ORO-T	28.5	0	3.3	9.5	2.1	16
Paymaster	DR 1085	27.2	0	2.8	10.5	1.9	19
Growers	ML-135	27.2	0	2.6	9.3	2.5	14

[1/]Measured from terminal leaf to base of the head.
[2/]1 = tight; 2 = medium; 3 = loose.

Table 16. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Monroeville Experiment Field, Monroeville, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage[4]
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
Pioneer	B815	51.2	0	3.5	12	7/4	2.5	
DeKalb	BR-64	45.6	1	3.5	15	7/5	2.8	
Northrup, King	Savanna 5	44.0	0	3.5	17	7/2	1.0	
Funk's	G-516BR	41.6	0	2.9	12	7/4	3.0	
Pennington	Penngrain BR	40.8	0	2.8	9	7/4	3.0	
DeKalb	BR-65+	40.5	0	3.1	15	7/4	2.3	
McNair	656 BR	40.0	0	3.0	8	7/4	3.0	
Paymaster	BRY-93	39.8	0	2.9	14	7/3	3.0	
Growers	GSA 1334 BR	39.8	0	3.0	16	7/5	3.0	
Coker	7681BR	39.6	0	3.0	10	7/6	2.8	
DeKalb	BR-45+	37.9	0	2.9	12	7/3	1.8	
Warner	W-744DR	35.5	0	2.9	13	7/7	2.3	
McCurdy	Birds-Off 91AYG	35.1	0	3.3	11	7/7	3.0	
Funk's	G-522DR	31.5	0	2.8	11	7/5	1.8	
Growers	GSA-1290	29.3	0	2.7	10	7/4	2.0	
Funk's	1762	26.9	0	2.6	15	7/2	3.0	
Pennington	Penngrain YE	26.8	0	2.9	10	7/3	2.8	
Funk's	G-522	25.9	0	2.7	12	7/4	2.3	
Ring Around	811A GB	25.5	1	3.1	12	7/5	2.0	
Surgro	ORO T XTRA	25.5	1	3.4	11	7/5	1.8	
Taylor-Evans	T-E Y101-R	23.8	0	2.6	12	7/4	1.8	
Paymaster	R1090	23.8	0	2.8	12	7/4	2.8	
Coker	7675	23.6	0	2.9	12	7/5	1.8	
Taylor-Evans	T-E Dinero	23.0	0	2.7	10	7/5	1.8	

Table 16. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Monroeville Experiment Field, Monroeville, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]	Estimate of bird damage[4]
		Bu/A	Pct.	Ft.	In.	Date	Rating	Pct.
DeKalb	D-42a	22.9	0	2.7	14	7/3	2.0	
Paymaster	DR 1085	22.8	0	2.8	11	7/3	2.3	
McNair	6193	22.6	0	3.1	10	7/3	1.5	
Northrup, King	2778	22.5	0	2.8	10	7/3	2.0	
McCurdy	M51YG	22.4	0	2.6	12	7/2	2.0	
Growers	ML-135	22.4	0	2.6	10	7/4	2.8	
McCurdy	M53YG	21.9	1	3.0	10	7/3	2.0	
Ring Around	807	20.5	0	2.9	14	7/6	2.0	
Taylor-Evans	T-E Y101-D	19.5	0	2.8	11	7/4	2.0	
Funk's	G-611	18.8	0	2.9	14	7/7	1.8	
Northrup, King	2884	17.8	0	3.1	12	7/3	2.0	
Surgro	ORO T	16.8	0	3.4	10	7/4	2.3	
Test average:		29.7						
L.S.D.(.05):		6.2						
C.V. (%):		17						

[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.
[4] Bird damage estimates were not taken at this location in 1979.

Planted: May 2, 1979.
Plot size: 2 rows, 20 feet long, 36 inch row spacing.
Nitrogen Rate: 120 lb. (N/A).
Herbicide: Aatrex.

Table 17. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Wiregrass Substation, Headland, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1/]	Head type[2/]
		Bu/A	Pct.	Ft.	In.	Rating
Growers	GSA 1334 BR	68.2	0	3.3	3.3	2.5
Pioneer	B815	66.2	1	3.7	3.8	2.5
Northrup, King	Savanna 5	64.6	1	4.0	6.3	1.4
Pennington	Penngrain BR	62.5	1	3.3	4.0	2.5
Growers	ML-135	61.2	1	2.9	3.0	2.1
Funk's	G-516BR	60.9	0	3.2	3.7	2.5
McCurdy	M51YG	59.7	2	3.0	3.2	2.1
DeKalb	BR-64	58.7	0	3.9	4.9	2.2
Funk's	G-522	58.6	0	3.0	3.3	2.2
Taylor-Evans	T-E Y101-R	58.4	0	3.1	3.5	2.1
DeKalb	BR-65+	52.1	1	3.7	5.5	1.6
Surgro	ORO T	51.1	2	3.6	3.8	2.0

[1/] Measured from terminal leaf to base of the head.
[2/] 1 = tight; 2 = medium; 3 = loose.

Table 18. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Two Years at the Wiregrass Substation, Headland, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exsertion[1]	Head type[2]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Northrup, King	Savanna 5	84.5	0	4.4	7.2	1.2	0
Coker	7681BR	82.6	0	3.6	3.8	1.7	0
Pioneer	8815	81.6	0	4.0	4.6	1.2	0
Growers	GSA 1334 BR	81.2	0	3.6	3.9	2.0	0
Pennington	Penngrain BR	80.7	0	3.6	4.8	2.0	0
McCurdy	Brids-Off 91AYG	75.8	0	3.5	4.6	1.7	1
Growers	ML-135	75.2	0	3.1	3.8	1.7	1
McCurdy	M51YG	73.3	0	3.1	3.9	2.1	1
Paymaster	BRY-93	72.7	0	3.4	3.8	1.7	0
Funk's	G-516BR	72.0	0	3.5	3.9	2.0	0
Pennington	Penngrain YE	72.0	0	3.1	3.3	1.7	1
Taylor-Evans	T-E Dinero	71.5	0	3.5	4.0	2.0	3
Taylor-Evans	T-E Y101-R	70.2	0	3.4	4.6	1.7	4
Funk's	G-522	68.6	0	3.2	4.1	1.9	2
Coker	7675	68.6	0	3.4	3.8	1.9	3
Northrup, King	2884	65.5	0	3.7	4.4	1.9	5
Ring Around	807	62.1	0	3.5	4.1	2.1	13
DeKalb	BR-64	60.5	0	4.2	5.3	1.9	0
DeKalb	BR-65+	59.9	1	4.0	6.3	1.7	0
Surgro	ORO T	59.9	1	3.9	4.6	2.0	7
Funk's	G-522DR	57.3	0	3.2	4.1	2.0	3

[1] Measured from terminal leaf to base of the head.
[2] 1 = tight; 2 = medium; 3 = loose.

Table 19. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Wiregrass Substation, Headland, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Pennington	Penngrain BR	79.9	0	3.3	3.5	7/7	3.0
Paymaster	R 1090	76.6	0	3.3	3.0	7/8	3.0
Northrup, King	2884	74.1	0	3.3	3.5	7/3	1.5
Surgro	ORO T XTRA	73.8	2	3.8	4.0	7/6	1.0
Funk's	G-522	73.4	0	3.0	3.0	7/9	2.5
Paymaster	BRY-93	73.0	0	3.1	3.0	7/5	2.5
Warner	W-744DR	72.8	0	3.5	3.5	7/7	3.0
DeKalb	D-42a	72.6	0	2.6	2.5	7/6	2.0
Pioneer	B815	72.3	0	3.7	4.0	7/7	3.0
Coker	7681BR	72.1	0	3.4	3.5	7/5	2.5
McNair	656 BR	72.0	0	3.3	3.5	7/5	3.0
Pennington	Penngrain YE	71.5	0	2.8	2.5	7/5	2.5
Funk's	G-516BR	71.5	0	3.3	3.5	7/3	3.0
Coker	7675	71.1	0	3.0	3.0	7/5	1.5
Surgro	ORO T	70.9	1	3.8	4.5	7/3	2.0
Growers	ML-135	70.4	0	3.0	3.0	7/6	2.5
Taylor-Evans	T-E Dinero	69.3	0	3.1	3.0	7/3	1.5
McCurdy	M53YG	68.9	0	3.0	3.0	7/3	2.0
Taylor-Evans	T-E Y101-D	68.7	0	3.0	3.5	7/6	1.0
Northrup, King	2778	67.8	0	3.0	4.0	7/6	2.0
Growers	GSA-1290	67.6	0	3.1	3.0	7/5	1.5
Growers	GSA 1334 BR	67.5	0	3.3	3.0	7/8	3.0
McCurdy	M51YG	67.1	0	2.9	3.0	7/6	2.0
Paymaster	DR 1085	66.4	0	2.9	3.5	7/5	1.5
DeKalb	BR-64	66.4	0	4.0	4.0	7/7	2.5

Table 19. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Wiregrass Substation, Headland, 1979 (Continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Taylor-Evans	T-E Y101-R	66.2	0	3.3	3.5	7/5	2.5
Ring Around	811A GB	65.1	0	3.6	4.5	7/5	2.0
McCurdy	Birds-Off 91AYG	64.3	0	3.3	4.0	7/10	3.0
Funk's	G-611	64.0	0	3.3	3.0	7/7	2.0
DeKalb	BR-65+	62.8	0	3.8	5.0	7/7	1.5
Funk's	G-522DR	62.6	0	2.8	3.0	7/10	1.5
McNair	6193	57.6	0	2.8	3.0	7/6	1.0
Funk's	G-611	56.9	0	2.9	2.0	7/5	2.5
DeKalb	BR-45+	56.8	0	3.1	3.0	7/7	2.0
Northrup, King	Savanna 5	56.4	0	4.2	7.3	7/2	1.0
Ring Around	807	53.9	0	3.3	3.5	7/9	2.0
Test average:		68.0					
L.S.D. (.05):		7.6					
C.V. (%):		10					

[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 19, 1979
Plot size: 2 rows, 18 feet long, 36 inch row spacing.
Nitrogen rate: 100 lb. (N/A), split application.
Herbicide: Atrazine.

Table 20. Yield and Other Characteristics of Grain Sorghum Hybrids Tested Three Years at the Gulf Coast Substation, Fairhope, 1977-79

Brand name	Hybrid	Yield	Lodging	Height	Head exertion[1/]	Head type[2/]
		Bu/A	Pct.	Ft.	In.	Rating
Northrup, King	Savanna 5	65.5	2	4.6	7.8	1.0
Pioneer	B815	60.6	0	4.2	5.4	1.8
Pennington	Penngrain BR	58.2	0	4.0	5.5	3.0
Funk's	G-516BR	56.4	0	3.8	5.6	2.9
Growers	GSA 1334 BR	53.6	0	4.1	6.6	2.9
DeKalb	BR-64	53.3	0	4.6	7.9	2.9
Surgro	ORO T	51.9	2	4.3	6.4	2.4
Growers	ML-135	51.3	0	3.6	5.8	2.5
Funk's	G-522	51.2	0	3.6	4.9	2.6
DeKalb	BR-65+	50.9	0	4.0	7.4	1.3
McCurdy	M51YG	46.4	0	3.6	6.5	2.6
Taylor-Evans	T-E Y101-R	44.9	0	3.4	6.6	2.3

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 Two Years at the Gulf Coast Substation, Fairhope, 1978-79

Brand name	Hybrid	Yield	Lodging	Height	Head exertion[1]	Head type[2]	Estimate of bird damage
		Bu/A	Pct.	Ft.	In.	Rating	Pct.
Warner	W-744DR	80.9	0	4.1	5.4	2.8	1
Northrup, King	Savanna 5	77.0	3	5.0	8.4	1.0	0
Pennington	Penngrain BR	76.8	0	4.2	5.5	3.0	1
Pioneer	B815	74.8	1	4.4	6.0	1.6	0
Coker	7681BR	74.1	0	4.2	7.1	2.5	1
Funk's	G-516BR	72.0	0	3.8	5.6	2.9	3
Paymaster	BRY-93	71.9	3	4.3	6.6	2.6	0
Growers	GSA 1334 BR	70.3	1	4.2	7.3	2.9	3
Northrup, King	2884	70.3	0	4.4	7.3	1.1	11
Funk's	G-522DR	68.9	0	4.0	6.4	1.6	5
Taylor-Evans	T-E Dinero	66.9	0	3.9	5.8	1.1	4
Pennington	Penngrain YE	66.2	0	3.6	4.9	2.6	3
Taylor-Evans	T-E Y101-D	65.1	0	3.9	4.9	1.5	0
DeKalb	BR-64	65.0	0	4.8	7.6	2.9	1
Growers	ML-135	64.7	0	3.8	7.0	2.3	4
McNair	656 BR	64.6	0	4.2	7.1	3.0	0
Funk's	G-522	63.4	0	3.9	5.3	2.4	1
DeKalb	BR-65+	62.6	0	4.1	7.6	1.0	1
Taylor-Evans	T-E Y101-R	59.6	0	3.7	7.6	2.0	0
McCurdy	M51YG	58.9	0	3.8	7.3	2.4	3
Surgro	ORO T	58.2	3	4.5	6.6	2.3	11
McCurdy	Birds-Off 91AYG	58.1	0	4.0	7.0	2.9	3
Ring Around	807	45.6	0	3.7	5.9	1.8	25

[1]/Measured from terminal leaf to base of the head.
[2]/1 = tight; 2 = medium; 3 = loose.

Table 22. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, Fairhope, 1979

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
Pioneer	B815	73.8	2	3.8	5.5	6/28	2.3
Warner	W-744DR	73.4	0	3.7	6.3	6/27	2.5
Pennington	Penngrain BR	69.4	0	3.5	5.5	6/26	3.0
Northrup, King	2884	68.5	0	3.9	5.5	6/26	1.3
Coker	7681BR	68.3	0	3.8	8.0	6/28	2.3
Surgro	ORO T XTRA	67.8	0	4.1	5.0	7/01	1.5
Growers	GSA 1334 BR	66.3	2	3.7	6.0	6/28	3.0
Northrup, King	2778	61.7	1	3.4	6.6	6/24	1.8
McNair	656 BR	60.7	0	3.4	6.4	6/29	3.0
Funk's	G-522DR	60.4	0	3.4	6.8	6/27	1.3
Coker	7675	60.4	0	3.6	6.1	6/27	1.3
DeKalb	BR-64	60.2	1	4.1	6.1	6/26	3.0
Funk's	G-516BR	59.9	0	3.5	6.3	6/25	3.0
Northrup, King	Savanna 5	59.5	6	5.0	9.3	6/24	1.0
Paymaster	BRY-93	59.4	6	3.8	7.1	6/27	2.8
Funk's	G-611	59.0	0	3.4	5.0	7/01	2.0
Ring Around	811A GB	58.2	0	3.8	6.8	7/01	1.5
McCurdy	M53YG	57.5	0	3.4	7.0	6/24	1.5
Surgro	ORO T	57.2	6	3.9	5.3	7/01	2.3
DeKalb	D-42a	57.2	2	3.0	4.3	6/27	2.0
Paymaster	R 1090	57.0	0	3.4	5.3	6/27	3.0
Taylor-Evans	T-E Dinero	56.6	0	3.4	5.8	6/27	1.3
McCurdy	Birds-Off 91AYG	56.0	0	3.4	6.3	6/29	2.8
Funk's	G-522	53.9	0	3.5	5.8	6/26	2.8

Table 22. Yield and Other Characteristics of Grain Sorghum Hybrids Tested at the Gulf Coast Substation, Fairhope, 1979 (continued)

Brand name	Hybrid	Yield[1]	Lodging	Height	Head exsertion[2]	Mid-bloom	Head type[3]
		Bu/A	Pct.	Ft.	In.	Date	Rating
DeKalb	BR-65+	52.9	0	3.6	9.3	6/28	1.0
Pennington	Penngrain YE	52.9	0	3.2	5.8	6/25	2.8
Growers	GSA-1290	52.9	0	3.0	5.3	6/27	1.5
Taylor-Evans	T-E Y101-R	51.2	0	2.9	5.4	6/27	2.0
DeKalb	BR-45+	51.0	0	3.0	6.5	6/26	1.5
McCurdy	M51YG	51.0	0	3.4	9.8	6/24	2.8
Taylor-Evans	T-E Y101-D	50.9	0	3.4	5.6	6/28	1.8
Paymaster	DR 1085	50.0	0	3.3	6.6	6/24	1.8
McNair	6193	49.9	0	3.3	6.8	6/27	1.0
Growers	ML-135	49.5	0	3.2	6.5	6/27	2.5
Ring Around	807	45.3	0	3.2	4.4	7/2	1.5
Funk's	1762	35.4	0	2.8	3.0	6/26	3.0
Test average:		57.6					
L.S.D.(.05):		6.9					
C.V. (%):		10					

[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 17, 1979.
Plot size: 2 rows, 20 feet long, 36 inch row spacing.
Nitrogen Rate: 110 lb. (N/A), split application.
Herbicide: Atrazine.

Sources of Seed for the 1979 Grain Sorghum Tests

Entry designation	Source of seed
Coker	Coker's Pedigreed Seed Company
7675	Route 1, Box 150
*7681BR	Lubbock, Texas
DeKalb	DeKalb Ag Research, Inc.
*BR-45+	Route 2
*BR-64	Lubbock, Texas
*BR-65+	
D-42a	
DK-54	
Funk's	Louisiana Seed Co., Inc.
*G-516BR	P.O. Box 1867
G-522	Plainview, Texas
G-522DR	
G-611	
1762	
Growers	Growers Seed Association
GSA-1180	P.O. Box 1656
GSA-1290	Lubbock, Texas
*GSA-1334 BR	
GSA-1444W	
ML-135	
McCurdy	McCurdy Seed Co.
*Birds-Off 91AYG	Fremont, Iowa
M51YG	
M53YG	
McNair	McNair Seed Company
*656BR	P.O. Box 706
6193	Laurinburg, North Carolina
Paymaster	ACCO Seed
*BRY-93	P.O. Box 1630
DR 1035	Plainview, Texas
DR 1085	
R 1090	
Northrup, King	Northrup, King Co.
2778	P.O. Box 151
2779	Columbus, Mississippi
2884	
*Savanna 5	

Penngrain	Pennington Seed, Inc.
*BR	P.O. Box 290
YE	Madison, Georgia
Pioneer	Pioneer Hi-Bred International, Inc.
8311	1000 W. Jefferson St.
*B815	Tipton, Indiana
Ring Around	Ring Around Research
733 GB	P.O. Box 1629
787	Plainview, Texas
807	
808 GB	
811A GB	
Surgro	R.C. Young Seed and Grain Co.
ORO	624 27th Street
ORO T	Lubbock, Texas
ORO XTRA	
ORO T XTRA	
Taylor-Evans	Taylor-Evans Seed Co.
T-E Dinero	P.O. Box 68
T-E Y101-D	Tulia, Texas
T-E Y101-R	
Warner	George Warner Seed Co., Inc
*W-744DR	P.O. Box 1448
	Hereford, Texas

*Bird resistant hybrids

ACCEPTABLE HYBRIDS FOR 1980

All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hbyrid. 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, Prattville, and Camden, Central Alabama; Headland, Monroeville, and Fairhope, Southern Alabama. For further information on hybrids see individual location tables.

NORTHERN ALABAMA

Bird resistant

Brand name	Hybrid
DeKalb	BR-65+
Funk's	G-516BR
Growers	GSA 1334 BR
Northrup, King	Savanna 5

Non-Bird Resistant

Brand name	Hybrid
Funk's	G-522
Funk's	G-522DR
Growers	GSA-1180
McCurdy	M51YG
Surgro	ORO
Taylor-Evans	T-E Y101-R

CENTRAL ALABAMA[2]

Bird resistant

Brand name	Hybrid
DeKalb	BR-64
Funk's	G-516BR
Growers	GSA 1334 BR
Northrup, King	Savanna 5
Pioneer	B815

Non-Bird Resistant

Brand name	Hybrid
Funk's	G-522
Growers	ML-135
Pennington	Penngrain YE
Surgro	ORO T[1]

SOUTHERN ALABAMA

Bird resistant

Brand name	Hybrid
DeKalb	BR-64
Funk's	G-516BR
Growers	GSA 1334 BR
Northrup, King	Savanna 5
Pennington	Penngrain BR
Pioneer	B815

Non-Bird Resistant

Brand name	Hybrid
Funk's	G-522
Growers	ML-135
McCurdy	M51YG[1]
Surgro	ORO-T[1]
Taylor-Evans	Y101-R[1]

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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] 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 8, 9, and 10.

NOTE: All acceptable hybrids have been tested 3 years at one or more locations within the region.

Information contained herein is available to all
regardless of race, creed, or national origin