



# PERFORMANCE OF GRAIN SORGHUM HYBRIDS IN ALABAMA



1984

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



## PERFORMANCE OF GRAIN SORGHUM HYBRIDS IN ALABAMA, 1984

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### INTRODUCTION

Grain sorghum performance tests are conducted annually throughout Alabama by the Alabama Agricultural Experiment Station. These tests give a comparison of hybrid performance under the conditions at a particular location. The locations used represent 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.

### 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. Test plots were two 36-inch rows, 20 feet in length. The target plant population was 60,000 plants per acre, with a seeding rate 25 percent higher to ensure a good stand. Test cultural practices are listed in table 1.

Grain yields were obtained by harvesting the whole test plot, either by hand or plot combine, and adjusting harvested grain weight and moisture to a standard 14 percent moisture and 56 pounds per bushel.

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Lodging is given as the percentage of plants broken or leaning at an angle of more than 45 degrees. The seedheads of lodged plants were not included in the yields reported.

Days to mid-bloom is one measure of relative maturity. This is taken as days from planting to the date when approximately one-half of the heads in the plot are in bloom.

A ratoon, or stubble, crop was harvested at Headland. The first harvest was combined and the stalks were cut to a 6-inch height. An additional 50 pounds of nitrogen per acre were sidedressed to the 6-inch stubble. The initial harvest plus the ratoon harvest is given as total yield.

The preliminary grain sorghum hybrid test, table 13, is used to evaluate new hybrids and experimental lines. If a new hybrid does well in the preliminary test, it is planted in the regular test the next year.

The test at the Tennessee Valley Substation was lost after a week of standing water on the test in late May caused delayed herbicide damage.

At Prattville, Headland, and Marion Junction, bird damage was moderate. In these tests, the bird-resistant hybrids showed no damage, while the non bird-resistant hybrids suffered bird damage which ranged from 0 to 80 percent of yield. Bird damage can be a problem in small fields. In selecting a hybrid, consideration should be given to bird populations; if damage is anticipated, bird-resistant hybrids should be used. Bird-resistant grain sorghum hybrids are sometimes difficult to market and may have lower feed value than the non bird-resistant hybrids.

## VARIETY COMPARISONS

The performance of hybrids varies among years and locations. Small yield differences among hybrids may be the result of slight environmental or cultural differences rather than differences in yield potential among hybrids. To aid in determining real differences, a statistical analysis of variance was performed on the data from each location. The L.S.D. (least significant difference) at the 5 percent level is reported to help determine real differences between hybrid yields for each location in 1984. If the yield difference is greater than the L.S.D. value between two hybrids at a given location, the two hybrids are considered to be significantly different in yield. The C.V. (coefficient of variation) is a measure of test variability. An increase in its value indicates a decrease in the precision of the test data.

The list of acceptable hybrids is based on 3-year-average grain yield and lodging data. The list is divided into three regions, north, central, and south. Since all acceptable hybrids are not equal in performance, a review of the data from several years at the test location similar to your situation is the most reliable method for selecting a hybrid best suited for your farming needs.

## ACKNOWLEDGMENTS

The performance trials were conducted in cooperation with the following substation and experiment field superintendents and their staffs whose quality work makes this report a reliable source of information for farmers in their areas.

Northern Alabama

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

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

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

Central Alabama

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

Prattville Experiment Field, Prattville - D.P. Moore, Superintendent

E.V. Smith Research Center, Shorter - W.B. Gordon, Superintendent

Southern Alabama

Monroeville Experiment Field, Monroeville - J.R. Akridge, Superintendent

Wiregrass Substation, Headland - H. Ivey, Superintendent

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

Appreciation is also expressed to W.H. Hearn, C. Jacks, and Sally Bagwell, Research Data Analysis, for the computation, summarization, and analysis of the data in this report.

Table 1. Locations and Cultural Practices for the 1984 Grain Sorghum Hybrid Tests

Location	Planting date	Nitrogen rate <sup>1</sup>	Plant population	Harvest date	Herbicides	Insecticides <sup>2</sup>
Tennessee Valley Substation (Belle Mina)	Test lost due to cold, wet spring weather and delayed herbicide damage.					
Sand Mountain Substation (Crossville)	May 11	115	60,000	September 7	Atrazine <sup>3</sup>	Lannate (2)
Upper Coastal Plain Substation (Winfield)	May 15	130	60,000	September 6	Atrazine + Paraquat	None
E.V. Smith Research Center (Shorter)	May 20	125	60,000	September 12	Atrazine + Dual	Lannate (1)
Prattville Experiment Field (Prattville)	April 13	80	60,000	August 6	Atrazine	Sevin (1)
Black Belt Substation (Marion Junction)	April 23	120	60,000	August 22	Atrazine	Sevin (5)
Monroeville Experiment Field (Monroeville)	April 17	90	60,000	August 22	Atrazine	Sevin (3)
Wiregrass Substation (Headland)	April 26	120	60,000	August 7	Atrazine	Nudrin (1)
Gulf Coast Substation (Fairhope)	April 12	80	60,000	August 21	Milogard	Sevin (1)

<sup>1</sup>Pounds per acre N. Lime, phosphorus, and potassium were applied according to soil test recommendations.

<sup>2</sup>Spray materials (number of applications).

<sup>3</sup>Atrazine alone was applied post emergence.

TABLE 2. YIELD AND LODGING AVERAGES FOR NORTHERN ALABAMA, 1982-1984 <sup>1/</sup>

BRAND-HYBRID	YIELD PER ACRE	LODGED STALKS	
		BU.	PCT.
PIONEER B-815	90	14.2	
FUNK'S G-522A	87	8.0	
N-K SAVANNA 5	86	14.8	
TERRA HT 126DR	86	11.3	
FUNK'S G-522DR	85	11.1	
COKER 7675	84	7.8	
TAYLOR-EVANS DINERO	84	2.7	
MCCURDY M-57YG	83	8.3	
NORTHUP KING 2660	82	4.3	
AGRATECH GK 802G	81	2.6	
HYPERCERMER 1225DR	80	3.0	
PENN PENNGRAIN YE	79	2.9	
DEKALB CK 59	78	1.9	
COKER 7638	77	14.4	
RING ARCOND RA 733	76	4.4	
FUNK'S G-611	76	5.6	

<sup>1/</sup> BELLE MINA, CROSSVILLE, WINFIELD.  
 1983 and 1984 BELLE MINA DATA NOT INCLUDED.  
 \*BIRD-RESISTANT HYBRID

TABLE 3. CROSSVILLE GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984 YIELD BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	MID- BLCCM	1984		LODGED STALKS PCT.
					MO./DAY	BIRD DAMAGE PCT.	
N-K SAVANNA 5	141	86	89	7/21	0.0	0.0	
HYPERFORMER 1330DR	136	95	-	7/26	0.0	0.0	
FUNK'S G-522A	131	102	96	7/21	0.0	0.0	
PIONEER B-815	130	107	108	7/23	0.0	0.0	
TERRA HT 126DR	130	104	97	7/23	0.0	0.0	
DEKALB DK 64	126	79	-	7/21	15.0	0.0	
AGRATECH GK 712G	126	95	-	7/21	0.0	0.0	
FUNK'S G-522DR	126	102	99	7/23	0.0	0.0	
NORTHROP KING 2660	125	98	94	7/21	0.0	0.0	
PIONEER 8300	125	-	-	7/22	0.0	0.0	
MCCURDY M-57YG	125	102	96	7/26	0.0	0.0	
PICNEER 8222	124	99	-	7/21	0.0	0.0	
RING ARUND RA 808	124	99	-	7/24	0.0	0.0	
PICNEER 8333	122	-	-	7/22	0.0	0.0	
COKER 7675	121	97	95	7/23	0.0	0.0	
HYPERFORMER 1225DR	121	99	95	7/23	0.0	0.0	
PENN PENN GRAIN YE	120	95	90	7/22	0.0	0.0	
COKER 7638	120	94	83	7/21	0.0	0.0	
MCCURDY M-737	119	96	-	7/22	1.0	0.0	
AGRATECH GK 802G	118	99	94	7/24	0.0	0.0	
PENN PENN GRAIN DR	118	97	-	7/23	0.0	0.0	
RING ARUND RA 787	115	98	-	7/22	0.0	0.0	
RING ARUND RA 733	115	92	84	7/22	0.0	0.0	
FUNK'S G-611	115	98	93	7/24	0.0	0.0	
DEKALB DK 59	115	101	97	7/26	0.0	0.0	
FUNK'S G-1711	113	-	-	7/26	0.0	0.0	
TAYLOR-EVANS DINERO	113	98	94	7/23	0.0	0.0	
NORTHROP KING 2244	105	84	-	7/21	3.0	0.0	
FUNK'S G-1498	90	82	-	7/20	25.0	0.0	
TEST MEAN	121						
L.S.D. (.05)		10.9					
C.V. (%)		6.4					

TABLE 4. WINFIELD GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984 YIELD BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	1984			
				MID- BL.COM	BIRD MO./DAY	DAMAGE	LODGED STALKS PCT.
RING ARCOND PA 737	77	74	-	7/27	-	-	0.0
COKER 7675	76	77	76	7/27	-	-	0.0
TERRA HT 1260R	71	74	77	8/1	-	-	0.0
PIONEER 8300	71	-	-	7/27	-	-	0.0
N-K SAVANNA 5	68	78	80	7/27	-	-	0.0
FUNK'S G-522DR	67	72	78	7/27	-	-	0.0
MCCURDY M-57YG	66	79	79	8/1	-	-	0.0
TAYLOR-EVANS DINERO	66	76	76	8/1	-	-	0.0
COKER 7638	66	70	68	7/27	-	-	0.0
RING ARCOND RA 808	65	69	-	8/1	-	-	0.0
NORTHROP KING 2660	64	73	71	8/1	-	-	0.0
AGRATECH GK 712G	63	65	-	7/27	-	-	0.0
NORTHROP KING 2244	63	59	-	7/27	-	-	0.0
DEKALB DK 64	63	70	-	7/27	-	-	5.0
FUNK'S G-522A	62	79	81	7/27	-	-	0.0
RING ARCOND RA 733	62	68	72	8/1	-	-	0.0
DEKALB DK 59	61	65	66	8/1	-	-	0.0
PENN PENN GRAIN YE	61	71	72	7/27	-	-	0.0
PICNEER 8-815	60	70	73	8/1	-	-	0.0
AGRATECH GK 802G	59	69	72	8/1	-	-	0.0
HYPERFMR 1330DP	59	69	-	8/1	-	-	0.0
MCCURDY M-737	59	69	-	8/1	-	-	0.0
PENN PENN GRAIN DR	58	69	-	8/1	-	-	0.0
HYPERFMR 1225DR	58	67	68	8/1	-	-	0.0
PICNEER 8222	57	68	-	8/1	-	-	0.0
FUNK'S G-1711	54	-	-	8/1	-	-	0.0
PICNEER 8333	53	-	-	8/1	-	-	0.0
FUNK'S G-611	49	65	62	8/1	-	-	0.0
FUNK'S G-1498	42	50	-	7/27	-	-	0.0
TEST MEAN	62						
L.S.D. (.05)	15.4						
C.V. (%)	17.7						

TABLE 5. YIELD AND LODGING AVERAGES FOR CENTRAL ALABAMA, 1982-1984<sup>1</sup>

BRAND-HYBRID	YIELD PER ACRE	LODGED STALKS	
		BU.	PCT.
PICNEER B-315*	78	0.0	
N-K SAVANNA 5*	78	0.8	
TAYLOR-EVANS DINERC	72	0.0	
AGRATECH GK 802G	72	0.0	
TERRA HT 126DR	71	0.0	
FUNK'S G-522DR	70	0.0	
FUNK'S G-522A	70	3.3	
PENN PENN GRAIN YE	70	0.0	
COKER 7675	69	0.0	
HYPERFORMER L225DR	68	0.0	
MCCURDY M-57YG	67	0.0	
COKER 7723	66	0.0	
COKER 7638	65	0.0	
AGRATECH GK 712G	65	0.0	
RING AROUND RA 733	63	0.0	
FUNK'S G-611	63	0.0	
DEKALB DK 59	60	0.0	
DEKALB CK 64	57	6.4	

1/ SHORTER, PRATTVILLE, AND MARION JUNCTION.

\*BIRD-RESISTANT HYBRID.

TABLE 6. SHORTER GRAIN SORGHUM HYBRID TRIAL, 1984.

BRAND-HYBRID	1984 YIELD BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	MID- BLOOM MO./DAY	1984		LODGED PC%
					BIRD DAMAGE PC%	STALKS PC%	
TERPA HT 1260R	56	45	53	7/20	0.0	0.0	
FUNK'S G-522DR	50	44	57	7/28	0.0	0.0	
TAYLGR-EVANS DINERC	50	45	54	7/28	0.0	0.0	
RING ARCOND RA 808	50	48	-	7/26	0.0	0.0	
PIONEER 8222	49	44	-	7/28	0.0	0.0	
PIONEER 8300	48	-	-	7/27	0.0	0.0	
FUNK'S G-1498	48	41	-	7/27	0.0	0.0	
COKER 7675	47	38	52	7/27	0.0	0.0	
RING AROUND RA 787	47	45	-	7/27	0.0	0.0	
HYPERCGRMER 1225DR	46	45	57	7/28	0.0	0.0	
HYPERCGRMER 1330DR	46	44	-	7/28	0.0	0.0	
FUNK'S G-1711	46	-	-	7/26	0.0	0.0	
NORTHRUP KING 2244	45	44	-	7/28	0.0	0.0	
AGRTECH GK 712G	45	42	56	7/27	0.0	0.0	
PIONEER 8-815	44	46	60	7/26	0.0	0.0	
MCCURDY M-57YG	44	38	49	7/27	0.0	0.0	
AGRTECH GK 802G	43	43	56	7/28	0.0	0.0	
PENN PENNGRAIN YE	43	39	55	7/27	0.0	0.0	
RING ARGUND RA 733	43	41	53	7/28	0.0	0.0	
DEKALB DK 64	43	39	41	7/28	0.0	0.0	
MCCURDY M-737	43	42	-	7/26	0.0	0.0	
PENN PENNGRAIN DR	41	40	-	7/28	0.0	0.0	
V-K SAVANNA 5	38	42	52	7/27	0.0	0.0	
COKER 7638	37	38	49	7/28	0.0	0.0	
FUNK'S G-611	33	34	43	7/26	0.0	0.0	
COKER 7723	32	37	48	7/26	0.0	0.0	
FUNK'S G-522A	31	39	56	7/26	0.0	0.0	
DEKALB DK 59	29	32	40	7/27	0.0	0.0	
PIONEER 8333	28	-	-	7/28	0.0	0.0	
TEST MEAN	43						
L.S.D. (.05)	18.4						
C.V. (%)	30.5						

TABLE 7. PRATTVILLE GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984 YIELD BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	MID- BLOOM	1984		LODGED STALKS PCT.
					MO./DAY	BIRD DAMAGE PCT.	
PICNEER 8-815	97	83	98	6/25	0.0	0.0	
N-K SAVANNA 5	94	80	97	6/23	0.0	0.0	
RING AROUND RA 808	80	68	-	6/27	5.0	0.0	
FUNK'S G-522A	79	67	86	6/24	20.0	0.0	
HYPERFOMER 1225DR	75	60	83	6/24	10.0	0.0	
PICNEER 8333	73	-	-	6/24	5.0	0.0	
TERPA HT 1260R	72	70	92	6/25	5.0	0.0	
PENN PENN GRAIN YE	71	62	84	6/25	10.0	0.0	
FUNK'S G-1711	71	-	-	6/30	5.0	0.0	
COKEK 7638	70	68	84	6/23	20.0	0.0	
TAYLOR-EVANS DINERO	70	66	88	6/24	10.0	0.0	
DEKALB DK 59	70	63	78	7/1	0.0	0.0	
AGRATECH GK 802G	70	67	88	6/24	15.0	0.0	
RING AROUND RA 733	69	61	77	6/24	5.0	0.0	
FUNK'S G-611	69	60	80	6/24	10.0	0.0	
COKER 7675	69	64	86	6/25	0.0	0.0	
FUNK'S G-5220R	69	58	81	6/24	20.0	0.0	
AGRATECH GK 712G	69	63	83	6/23	30.0	0.0	
PIONEER 8222	68	61	-	6/24	20.0	0.0	
RING ARUND RA 787	67	57	-	6/24	40.0	0.0	
PENN PENN GRAIN DR	65	63	-	6/24	20.0	0.0	
MCCURDY M-737	64	61	-	6/22	15.0	0.0	
PIONEER 8300	61	-	-	6/25	10.0	0.0	
MCCURDY M-57YG	61	58	83	6/26	10.0	0.0	
HYPERCORMER 1330DR	59	54	-	6/26	5.0	0.0	
COKER 7723	56	51	78	6/27	15.0	0.0	
FUNK'S G-1498	51	47	-	6/22	30.0	0.0	
DEKALB DK 64	39	41	67	6/23	40.0	0.0	
NORTHRUP KING 2244	21	35	-	6/19	80.0	0.0	
TEST MEAN		67					
L.S.D. (.05)		14.0					
C.V. (%)		14.8					

TABLE 8. MARION JUNCTION GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984 YIELD BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	MID- BLCCM	1984		LODGED STALKS PCT.
					MO./DAY	BIRDS DAMAGE PCT.	
N-K SAVANNA 5	72	65	84	7/11	0.0	0.0	
RING AROUND RA 787	70	64	-	7/9	5.0	0.0	
PIONEER B-815	69	63	76	7/12	15.0	0.0	
COKER 7723	67	61	71	7/11	10.0	0.0	
PIONEER 8300	65	-	-	7/11	5.0	0.0	
HYPERFARMER 1330DR	64	58	-	7/11	10.0	0.0	
DEKALB DK 64	63	57	64	7/6	10.0	0.0	
TERRA HT 126DR	62	58	68	7/11	10.0	0.0	
FUNK'S G-5224	61	61	68	7/12	10.0	0.0	
COKER 7675	60	57	70	7/12	5.0	0.0	
FUNK'S G-522DR	60	57	72	7/11	15.0	0.0	
PENN PENN GRAIN YE	59	58	70	7/8	15.0	0.0	
MCCURDY M-57YG	58	59	68	7/14	10.0	0.0	
HYPERFARMER 1225DR	58	52	65	7/12	15.0	0.0	
TAYLOR-EVANS DINERO	58	61	76	7/10	10.0	0.0	
FUNK'S G-1498	58	55	-	7/7	5.0	0.0	
FUNK'S G-1711	57	-	-	7/14	10.0	0.0	
RING AROUND RA 808	57	48	-	7/14	10.0	0.0	
PIONEER 8333	56	-	-	7/10	5.0	0.0	
PENN PENN GRAIN DR	55	55	-	7/13	10.0	0.0	
AGRATECH GK 802G	55	55	71	7/12	15.0	0.0	
COKER 7638	55	51	63	7/7	10.0	0.0	
MCCURDY M-737	53	49	-	7/5	15.0	0.0	
RING AROUND RA 733	53	51	60	7/10	5.0	0.0	
PIONEER 8222	52	56	-	7/13	5.0	0.0	
FUNK'S G-611	52	52	67	7/13	10.0	0.0	
DEKALB DK 59	50	49	63	7/14	10.0	0.0	
AGRATECH GK 712G	47	45	56	7/7	10.0	0.0	
NORTHRUP KING 2244	42	46	-	7/5	20.0	0.0	
TEST MEAN	58						
L.S.D. (.05)	9.1						
C.V. (%)	11.1						

TABLE 9. YIELD AND LODGING AVERAGES FOR SOUTHERN ALABAMA, 1982-1984<sup>1/</sup>

BRAND-HYBRID	YIELD PER ACRE	LODGED STALKS	
		BU.	PC%
N-K SAVANNA 5*	86	0.1	
PICNEER B-815*	76	0.2	
MCCURDY M-57YG	74	0.1	
NORTHRUF KING 2660	72	0.1	
TERRA HT 126DR	69	1.7	
PENN PENNGRAIN YE	68	1.1	
HYPERCERMER 1225DR	68	0.0	
TAYLOR-EVANS DINERC	67	0.0	
FUNK'S G-522DR	67	0.0	
AGRATECH GK 802G	67	0.3	
FUNK'S G-522A	67	0.0	
COKER 7675	64	0.0	
DEKALB DK 64	63	0.1	
DEKALB DK 59	63	0.0	
COKER 7723	61	0.2	
FUNK'S G-611	60	0.0	
RING ARCOND RA 733	59	0.3	

<sup>1/</sup>HEADLAND, MONROEVILLE, AND FAIRHOPE.

\*BIRD-RESISTANT HYBRID.

TABLE 10. MONROEVILLE GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYB RID	1984 BU.	1983-84 2-YR. AV. BU.	1982-84 3-YR. AV. BU.	MID- SEASON MO./DAY	1984	
					BIRD PCT.	LODGED STALKS PCT.
N-K SAVANNA 5	82	59	68	6/25	0.0	0.0
PICNEER B-815	73	59	62	6/28	0.0	0.0
MCCURDY M-57YG	73	59	59	6/30	0.0	0.0
HYPERCGRMER 1225DR	71	58	59	6/30	0.0	0.0
TEKKA HT 126DR	68	60	63	6/28	0.0	0.0
PENN PENNGRAIN YE	67	55	60	6/28	0.0	0.0
MCCURDY M-737	65	49	-	6/26	0.0	0.0
COKER 7675	65	55	59	7/1	0.0	0.0
FUNK'S G-522DR	64	55	59	7/1	0.0	0.0
DEKALB DK 64	63	55	55	6/26	0.0	0.0
DEKALB DK 59	61	48	51	7/2	0.0	0.0
FUNK'S G-1711	60	-	-	7/1	0.0	0.0
PIONEER 8300	60	-	-	6/30	0.0	0.0
TAYLOR-EVANS DINERO	59	53	58	6/29	0.0	0.0
AGRATECH GK 712G	58	46	-	6/29	0.0	1.0
NORTHROP KING 2660	58	54	57	6/30	0.0	0.0
PICNEER 8333	57	-	-	6/28	0.0	0.0
AGRATECH GK 802G	56	51	58	7/1	0.0	0.0
PIONEER 8222	55	48	-	6/30	0.0	0.0
FUNK'S G-611	54	49	55	7/1	0.0	0.0
RING AROUND RA 733	54	47	51	6/28	0.0	0.0
FUNK'S G-522A	53	52	57	6/30	0.0	0.0
HYPERCGRMER 1330DR	53	54	-	6/28	0.0	0.0
COKER 7723	51	47	55	7/1	0.0	0.0
FUNK'S G-1498	47	47	-	6/23	0.0	0.0
PENN PENNGRAIN DR	46	48	-	6/29	0.0	0.0
RING AROUND RA 808	41	38	-	7/1	0.0	0.0
NORTHROP KING 2144	39	42	-	6/25	0.0	0.0
TEST MEAN	59					
L.S.D. (.05)	14.0					
C.V. (%)	16.9					

TABLE II. HEADLAND GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984		TOTAL BU. <sup>a</sup>	1983-84 2-YR. AV. BU. <sup>a</sup>	1982-84 3-YR. AV. BU. <sup>a</sup>	MID- BLOOM MO./DAY	1984	
	YIELD BU. <sup>a</sup>	PAICON BU. <sup>a</sup>					BIRD PCI. <sup>a</sup>	LODGED PCI. <sup>a</sup>
N-K SAVANNA 5	91	31	121	124	121	-	2.0	0.0
PIONEER B-815	80	37	116	104	101	-	10.0	0.0
MCCURDY M-57YG	70	39	110	98	97	-	15.0	0.0
HYPERFORMER 1330DR	70	35	105	92	-	-	15.0	0.0
DEKALB DK 64	62	38	100	87	81	-	20.0	0.0
AGRATECH GK 802G	75	24	99	74	79	-	15.0	0.0
PIONEER 8333	61	37	98	-	-	-	25.0	0.0
NORTHRUP KING 2660	75	22	98	87	91	-	30.0	0.0
TAYLOR-EVANS DINERO	71	25	96	76	79	-	15.0	0.0
HYPERFORMER 1225DR	75	21	96	83	80	-	25.0	0.0
COKER 7723	70	25	95	78	79	-	20.0	0.0
DEKALB DK 59	62	33	95	79	76	-	15.0	0.0
TERRA HT 1260R	69	26	95	77	76	-	20.0	0.0
FUNK'S G-1711	56	38	94	-	-	-	20.0	0.0
PIONEER 8222	60	34	94	88	-	-	10.0	0.0
PIONEER 8300	61	33	94	-	-	-	15.0	0.0
RING AROUND RA 733	67	25	93	78	72	-	20.0	0.0
RING ARCONDO RA 808	62	29	90	76	-	-	20.0	0.0
PENN PENNGRAIN YE	65	25	90	85	82	-	15.0	0.0
PENN PENNGRAIN DR	68	20	87	69	-	-	20.0	0.0
FUNK'S G-522A	60	26	85	81	81	-	20.0	0.0
FUNK'S G-522DR	59	27	85	75	76	-	20.0	0.0
COKER 7675	66	17	83	72	76	-	15.0	0.0
FUNK'S G-611	57	25	82	69	71	-	20.0	0.0
MCCURDY M-737	59	23	82	80	-	-	35.0	0.0
AGRATECH GK 712G	57	19	76	71	-	-	30.0	0.0
NORTHRUP KING 2244	40	24	65	65	-	-	40.0	0.0
FUNK'S G-1498	35	22	57	62	-	-	50.0	0.0
TEST MEAN	64							
L.S.D. (.05)	10.5							
C.V. (%)	11.6							

TABLE 12. FAIRHOPE GRAIN SORGHUM HYBRID TRIAL, 1984

BRAND-HYBRID	1984 YIELD	1983-84 2-YR. AV.	1982-84 3-YR. AV.	MID- BLADE	1984		LODGED STALKS
					BU.	MC./DAY	
N-K SAVANNA 5	65	59	69	6/15	0.0	1.0	
TERRA HT 126DR	62	61	69	6/15	0.0	0.0	
NORTHROP KING 2660	61	61	69	6/18	0.0	1.0	
AGRATECH GK 802G	58	53	64	6/15	0.0	0.0	
PIONEER R-815	57	57	65	6/20	0.0	2.0	
TAYLOR-EVANS DINERC	56	55	66	6/15	0.0	0.0	
MCCURDY M-57YG	55	56	64	6/15	0.0	0.0	
PIONEER 8222	54	52	-	6/15	0.0	0.0	
HYPERFORMER 1225DR	52	53	64	6/15	0.0	0.0	
FUNK'S G-522DR	52	57	67	6/15	0.0	0.0	
PIONEER 8300	51	-	-	6/18	0.0	0.0	
DEKALB DK 59	51	51	62	6/20	5.0	0.0	
FUNK'S G-1498	49	45	-	6/15	0.0	0.0	
PENN PENN GRAIN DR	49	53	-	6/15	0.0	0.0	
FUNK'S G-522A	48	54	62	6/13	0.0	0.0	
MCCURDY M-737	46	50	-	6/13	0.0	1.0	
PENN PENN GRAIN YE	46	47	61	6/15	0.0	0.0	
COKER 7675	45	45	58	6/15	0.0	0.0	
AGRATECH GK 712G	43	42	-	6/13	0.0	0.0	
HYPERFARMER 1330DR	42	44	-	6/18	5.0	2.0	
RING ARUND RA 733	42	45	54	6/15	0.0	3.0	
FUNK'S G-1711	42	-	-	6/18	5.0	1.0	
PIONEER 8333	40	-	-	6/13	0.0	0.0	
DEKALB DK 64	40	47	54	6/18	0.0	1.0	
NORTHROP KING 2244	39	40	-	6/13	0.0	0.0	
RING ARUND RA 808	37	42	-	6/18	0.0	0.0	
FUNK'S G-611	32	43	55	6/18	0.0	0.0	
COKER 7723	24	36	50	6/18	0.0	2.0	
TEST MEAN		48					
L.S.D. (.05)		14.6					
C.V. (%)		21.6					

TABLE 13. PRELIMINARY GRAIN SORGHUM HYBRID TRIAL, 1984 <sup>1/</sup>

BRAND-HYBREID	1984	MID-	BIRD	LOGGED
	YIELD BU.	MO./DAY	PCT.	STALKS PCT.
FUNK'S HW-6212	85	7/26	0.0	0.0
PIONEER 8515	79	7/28	0.0	0.0
DEKALB X 304	73	7/27	0.0	0.0
MCCURDY M-747	71	7/28	0.0	0.0
FUNK'S HW-6045	70	7/26	0.0	0.0
STAUFFER 530GR	69	7/26	0.0	0.0
FFR 321	65	7/28	0.0	0.0
RING AROUND RA 790DR	61	7/28	0.0	0.0
RING AROUND RA 777DR	61	7/28	0.0	0.0
DEKALB DK 45	60	7/26	0.0	0.0
DEKALB DA-50	60	7/27	0.0	0.0
NORTHRUP KING X-8242	58	7/28	0.0	0.0
DEKALB M-565	58	7/27	0.0	0.0
AGRATECH GK 552G	57	7/27	0.0	0.0
STAUFFER 734GR	57	7/27	0.0	0.0
STAUFFER S-9750	56	7/28	0.0	0.0
FFR 174	54	7/26	0.0	0.0
FFR 331	46	7/28	0.0	0.0
NORTHRUP KING X 8139	46	7/28	0.0	0.0
TEST MEAN	62			
L.S.D. (.05)	19.5			
C.V. (%)	22.0			

<sup>1/</sup> SHORTER

Sources of Seed for the 1984 Grain Sorghum Tests

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Entry designation	Source of seed
Agratech brand hybrids.....	Agratech Seeds, Inc. P.O. Box 644 Ashburn, GA 31714
Coker brand hybrids.....	Coker's Pedigreed Seed Co. Route 1 Box 150 Lubbock, TX 79408
DeKalb brand hybrids.....	DeKalb Ag. Research, Inc. Route 2 Lubbock, TX 79408
FFR brand hybrids.....	FFR Cooperative 4112 E. State Road 225 W. Lafayette, IN 47906
Funk's brand hybrids.....	Louisiana Seed Company, Inc. P.O. Box 1867 Plainview, TX 79702
Hyperformer brand hybrids.....	Helena Chemical Company 5100 Poplar Avenue Memphis, TN 38137
McCurdy brand hybrids.....	McCurdy Seed Company Fremont, IA 52561
Northrup King brand hybrids.....	Northrup King Company P.O. Box 151 Columbus, Mississippi 39701
Pennington brand hybrids.....	Pennington Seed, Inc. P.O. Box 290 Madison, GA 30650
Pioneer brand hybrids.....	Pioneer Hi-bred International, Inc. 1000 West Jefferson Street Tipton, IN 46072
Ring Around brand hybrids.....	Louisiana Seed Company, Inc. P.O. Box 1867 Plainview, TX 79702

(continued on the following page)

Sources of Seed for the 1984 Grain Sorghum Tests (continued)

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Entry designation	Source of seed
Stauffer brand hybrids.....	Stauffer Seeds, Inc. 975 S. Durkin Dr. Springfield, IL 62704
Taylor-Evans brand hybrids.....	Taylor-Evans Seed Company P.O. Box 68 Tulia, TX 79088
Terra brand hybrids.....	Terra Seed Company P.O. Box 10121 Lubbock, TX 79408

ACCEPTABLE HYBRIDS FOR 1985

All acceptable hybrids have been tested for 3 consecutive years in the region listed. All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hybrid. The hybrids are listed in descending order of 3-year average yield for each region.

NORTHERN ALABAMA

<u>Brand Name</u>	<u>Hybrid</u>
**Pioneer	B-815
Funk's	G-522A
**Northrup King	Savanna 5
Terra	HT 126DR
Funk's	G-522DR
Coker	7675
Taylor-Evans	Dinero
McCurdy	M-57YG
Northrup King	2660
AgraTech	GK 802G
*Pennington	Penngrain YE
*Ring Around	RA 733
*Funk's	G-611

CENTRAL ALABAMA

<u>Brand Name</u>	<u>Hybrid</u>
**Pioneer	B-815
**Northrup King	Savanna 5
Taylor-Evans	Dinero
AgraTech	GK-802G
Terra	HT 126DR
Funk's	G-522DR
Funk's	G-522A
Pennington	Penngrain YE
Coker	7675
Hyperformer	1225DR

SOUTHERN ALABAMA

<u>Brand Name</u>	<u>Hybrid</u>
**Northrup King	Savanna 5
**Pioneer	B-815
McCurdy	M-57YG
Northrup King	2660
Terra	HT 126DR
Pennington	Penngrain YE
Hyperformer	1225DR
Taylor-Evans	Dinero
Funk's	G-522DR
AgraTech	GK 802G
Funk's	G-522DR
AgraTech	GK 802G
Funk's	G-522A
*Coker	7675
*Funk's	G-611

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

\*\*Bird resistant hybrids may be difficult to market, and may also have lower feeding value than non-bird resistant varieties.



