

Grain Sorghum

1984 Missouri Crop Performance



Special Report 321

January, 1984

Minor, Morris, Knerr, Lawman, Sparks

TABLE OF CONTENTS

COMPARING HYBRIDS	3
EXPERIMENTAL PROCEDURES	4
Entries	4
Field Plot Design	4
Plot Management	4
Data Recorded	4
Cultural Practices (Table 1)	5
Rainfall and Temperature (Table 2)	6
Map of Test Locations (Figure 1)	7
RESULTS	
Overall Summary (Table 3)	8
Full-Season Tests	
Novelty (Table 4)	10
Columbia (Table 5)	12
Lamar (Table 6)	14
Parma (Table 7)	16
Full Season Summary (Table 8)	18
Double Crop Tests	
Columbia (Table 9)	20
Lamar (Table 10)	21
Portageville (Table 11)	22
Double Crop Summary (Table 12)	23
Grain Sorghum Characteristics (Table 13)	24
Grain Sorghum Seed Company Addresses (Table 14)	27

THE AUTHORS

Harry C. Minor is an Associate Professor of Agronomy and State Extension Specialist, Carl G. Morris is a Senior Research Specialist, and Delbert Knerr, Eric Lawman, and Virgil Sparks are Research Specialists.

ACKNOWLEDGEMENTS

The authors recognize and express their appreciation to the following individuals for their part in making the 1984 grain sorghum performance trials possible: Randall Snoot, Foreman, Greenley Memorial Center, Novelty; John Pehlmann, Superintendent, Agronomy Research Center, Columbia; Wally Norton, Lamar; Claude Keasler Farms, Inc., Parma; and Joe Scott, Superintendent, Delta Research Center, Portageville.

Special recognition is given to Calvin Jones, Area Agronomist at Lamar for his assistance in all phases of the program. Appreciation is also extended to Robert Rowland for his computer programming of this Special Report.

1984

GRAIN SORGHUM

This report is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station, which reports on Research Project 363. The work was supported in part by funds from the Missouri Seed Improvement Association and fees from the companies submitting hybrids for evaluation. The University of Missouri began its performance testing program for grain sorghum hybrids in 1958. The number of commercial entries in the program has grown from 40 in 1958 to 126 today.

The large number of commercial hybrids available makes selection of a superior hybrid difficult. To intelligently select from among available hybrids, a reliable, unbiased and up-to-date source of information is needed. The objective of the University of Missouri's performance testing program is to provide this information. The tests are conducted under as uniform conditions as possible. Small plots are used to reduce the chance of soil and climatic variations occurring from one plot to another. Results obtained should aid the individual grower in judging the relative merits of many of the commercial grain sorghum hybrids available in Missouri.

COMPARING HYBRIDS

The performance of a hybrid cannot be measured with absolute precision. Uncontrollable variability is involved in the determination of each yield average. This variability is often the result of soil disuniformity, but many other conditions may contribute to it. Because variability exists in all field experimentation, statistics are used as a tool to assist in making decisions. The statistical tool used in the analysis of trials reported here is the test of least significant difference (L.S.D.). The L.S.D. is quite simple to apply; when two entries are compared and the difference between them is greater than the L.S.D., the entries are judged to be significantly different. Differences smaller than the L.S.D. may have occurred by chance and are judged to be non-significant.

Hybrid performance may seem inconsistent from location to location and from year to year because of differences in rainfall, temperature, soil fertility, diseases, insects, and other factors. To obtain an improved estimate of relative hybrid performance, results from more than one location or year should be considered. In this publication, an effort has been made to facilitate comparisons across years and locations.

In each trial, the "top yielding" hybrids have been identified. These hybrids are those that did not yield significantly less than the highest yielding hybrid in the test. They are denoted in the tables by an asterisk (*) next to their yields. Thus, by going down a column, the highest yielding hybrids in a trial can be readily identified. By going across, the relative performance of a hybrid during several years or at several locations can be evaluated. From the standpoint of yield, the most desirable hybrids will be those among the "top yielding" hybrids (that is, have an asterisk) the greatest number of times.

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a grain sorghum hybrid. Stalk strength and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. Poor stalk strength and/or susceptibility to pests may decrease harvestable yield because of lodging or

stand loss. For growers considering grain sorghum as a double crop, maturation within the available season is essential. Therefore, when selecting a hybrid the data presented on agronomic characteristics other than yield should also be considered.

The Missouri Agricultural Experiment Station does not make specific recommendations for hybrids. It is suggested that farmers growing a new hybrid for the first time consider the information contained in this report and then grow a small acreage to determine adaptability. This should be the practice for all new hybrids regardless of origin.

Full-season grain sorghum performance trials were planted at four locations in 1984. These were the Greenley Memorial Center near Novelty in Knox County, the Agronomy Research Center near Columbia in Boone County, the Wally Norton farm near Lamar in Barton County, and the Carl Keasler farm near Parma in Stoddard County. See Figure 1, Page 7 for the locations of trials in various parts of Missouri.

Double crop grain sorghum performance trials were planted at three locations in 1984. These were the Agronomy Research Center near Columbia in Boone County, the Wally Norton farm near Lamar in Barton County, and the Delta Research Center near Portageville in Pemiscot County. See Figure 1, Page 7 for the locations of these trials.

EXPERIMENTAL PROCEDURES

Entries. All producers of hybrid seed were eligible to enter hybrids in the 1984 evaluation trials. Participation was voluntary and no control was exercised by the program over which, or how many, hybrids were entered. However, to help finance the evaluation program, a fee of \$60 per location was charged for each hybrid entered by the seed producer. In addition to the fee entries, a broader-based program was continued in which certain widely-grown hybrids were included on a no-fee basis. Identification of these widely-grown hybrids was made through a telephone survey of companies which market commercial hybrids in Missouri.

Field Plot Design. All tests were arranged in lattice field plot designs with three replications. Plots were four rows wide and 25 feet long at all locations. The two center rows were harvested to measure yield.

Plot Management. The tests were planted and harvested with commercial equipment modified for small plot work. Details of the management practices followed at each location are given in Table 1, Page 5.

Data Recorded. Bloom date was recorded when 50% of the plants in a plot were shedding pollen. The other agronomic characteristics were evaluated at harvest. Head compactness was scored on a scale of 1 to 5. A score of 1 indicates the most compact or tight head while 5 indicates the most lax or loose head. Lodging was determined by counting the number of culms inclined more than 30 degrees from vertical. This value was converted to a percentage of the total number of culms in each plot. Yield was measured in number of pounds per acre at a moisture content of 12.5%. An electronic moisture tester was used for all moisture readings. For conversion of yield to bushels/acre, divide pounds/acre by 56.

In addition to the notes taken on the standard grain sorghum trials, test weight was measured in one of the double crop trials. Test weight provides a measure of relative maturity at frost.

TABLE 1. CULTURAL PRACTICES USED IN THE 1984 GRAIN SORGHUM EVALUATION TRIALS.

Location (County)	Cooperator	Fertilizer N-P205-K20	Herbicide	Pest- icide	Row Width (in)	Density (Plants/A)	Date of Planting	Date of Harvest
Novelty (Knox)	Randell Smoot*	160- 60-120	Ramrod + Atrazine	None	30	104,500 6 Pl/Ft	5-18-84	10-10-84
Columbia (Boone)	John Poehlmann*	220-150-175	Ramrod + Atrazine	None	30	104,500 6 Pl/Ft	5-08-84	9-19-84
Lamar (Barton)	Wally Norton	180- 40- 80	Ramrod + Atrazine	None	30	104,500 6 Pl/Ft	5-15-84	9-18-84
5 Parma (Stoddard)	Claude Keasler Farms, Inc.	100-150-150	Ramrod + Atrazine	None	38	82,500 6 Pl/Ft	5-23-84	10-19-84
1 Columbia (Boone)	John Poehlmann*	160-100-100	Ramrod + Atrazine	None	30	104,500 6 Pl/Ft	7-09-84	11-07-84
1 Lamar (Barton)	Wally Norton	80- 60- 80	Ramrod + Atrazine	None	30	104,500 6 Pl/Ft	7-03-84	11-07-84
1 Portageville (Pemiscot)	Joe Scott*	154- 30- 60	Ramrod + Atrazine	Lorsban	30	104,500 6 Pl/Ft	7-02-84	10-26-84

* Experiment Station Managers.

1 Double Crop trial

TABLE 2. RAINFALL AND TEMPERATURE DURING THE 1984 GROWING SEASON.

LOCATION	MONTH	RAINFALL			TEMPERATURE		
		INCHES	DEPART FROM NORMAL	RAINY DAYS	°F	DEPART FROM NORMAL	90° OR ABOVE
NOVELTY *	MAY	5.7	+1.5	8	57.7	-5.0	0
	JUNE	9.3	+5.4	8	71.7	+0.2	0
	JULY	1.6	-2.4	7	72.5	-2.7	6
	AUGUST	0.1	-3.7	1	76.0	+2.0	13
COLUMBIA	MAY	3.5	-1.0	8	60.8	-3.3	0
	JUNE	6.9	+3.1	9	74.4	+1.5	3
	JULY	1.7	-1.8	3	75.5	-2.3	14
	AUGUST	1.1	-1.8	2	77.0	+1.0	19
LAMAR	MAY	3.3	-1.6	7	61.2	-4.1	0
	JUNE	3.8	-1.0	8	74.5	+0.8	6
	JULY	1.2	-2.0	4	74.5	-4.3	14
	AUGUST	0.5	-2.8	2	77.5	+0.3	22
PARMA*	MAY	6.2	+1.0	10	66.1	—	0
	JUNE	1.1	-2.6	5	79.7	—	19
	JULY	5.7	+1.9	6	79.0	—	19
	AUGUST	3.6	0.0	3	80.0	—	21
PORTAGEVILLE	MAY	—	—	—	—	—	—
	JUNE	3.5	-0.2	5	79.0	+1.7	16
	JULY	1.3	-2.1	6	77.5	-3.2	15
	AUGUST	2.5	-0.3	4	76.5	-2.5	5

— DATA NOT AVAILABLE.

* NOVELTY (KIRKSVILLE DATA), AND PARMA (DEXTER DATA).



FIGURE 1. TEST SITE LOCATIONS.

- STANDARD TEST
- X DOUBLE CROP TEST
- STANDARD AND DOUBLE CROP TESTS

RESULTS

Results for each location include data on 50% bloom date, plant height, percent off-type heads, percent lodging, moisture at harvest and yield adjusted to 12.5% moisture.

Grain sorghum hybrids were evaluated in four regular and three double crop trials in 1984 (Figure 1, Page 7). Management was as uniform as possible across locations. Details are presented in Table 1, Page 5.

Results for individual full season locations are presented in Tables 4 through 8. Significant variation among hybrids was observed at each location. The differences between the highest and lowest yielding hybrids are summarized in Table 3. Results from Lamar were more variable than usual because of above normal moisture early in the season and excessive lodging in the area of the experiment.

Double crop grain sorghum trials were planted at Columbia, Lamar, and Portageville following wheat which yielded approximately 35, 65, and 65 bushels per acre respectively. Below average grain sorghum yields at Columbia were due to inadequate moisture during July and August. Results for individual double crop grain sorghum tests are presented in Tables 10 through 12.

Maturity group classification of each hybrid was supplied by the companies making the entry. Criteria for the classification used are:

- Group 1 - Earlier than RS 610
- Group 2 - Between RS 610 and RS 671
- Group 3 - Between RS 671 and RS 702
- Group 4 - Later than RS 702

Table 3. Grain Sorghum Yield Summary

Location	Number of Entries	Double Crop	Yield (pounds/acre) Range	Average	Data Table
Full Season Tests					
Novelty	107	no	4215-6290	5200	4
Columbia	107	no	5449-8068	6561	5
Lamar	107	no	2632-5373	4188	6
Parma	107	no	5273-9558	7897	7
Double Crop Tests					
Columbia	41	yes	0-2386	727	9
Lamar	41	yes	1649-3747	2527	10
Portageville	41	yes	3333-5843	4588	11

TABLE 4. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED NEAR NOVELTY ON THE GREENLEY MEMORIAL CENTER IN 1982-84.
PLANTED: 18 MAY 1984. HARVESTED: 10 OCTOBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984					LODGING (%)			YIELD (LB/ACRE)		
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	1984	1983	1982	1984	1983	1982	
	MATURITY GROUP 1										
MFA GS-103	8- 5	37	0.0	1.6	0.0	--	--	5370	--	--	
CARGILL 40	8- 4	40	0.0	3.6	0.0	0.0	--	5205	3442*	--	
TERRA HT45G	8- 4	42	0.0	3.0	0.0	--	--	5081	--	--	
HYPERFORMER 1225DR	8-13	38	0.0	3.0	0.0	0.0	0.0	5022	3098	5558*	
RING AROUND RA 433-A	8- 6	38	0.0	1.6	0.0	--	--	5006	--	--	
STAUFFER SEEDS 530GR	8- 5	41	0.0	1.6	0.0	--	--	4791	--	--	
MATURITY GROUP 2											
PAYMASTER 1091	8-11	42	0.0	3.3	0.0	--	--	5854*	--	--	
CONLEE TOP HAND II	8-11	40	0.0	2.6	0.0	0.0	--	5725*	3490*	--	
PAG 662	8-14	41	0.0	3.3	0.0	0.0	0.0	5697*	3302	5597*	
FUNKS G-550	8- 8	43	0.0	2.0	0.0	0.0	0.0	5684*	4089*	5749*	
PAYMASTER R1090##	8- 8	40	0.0	4.6	0.0	0.0	--	5625	3853*	--	
TRIUMPH TWO 80-D	8-17	38	0.0	2.0	0.0	0.0	0.0	5513	3567*	6165*	
WARNER W-839 DR	8-12	39	0.0	2.0	0.0	0.0	0.0	5502	2788	6036*	
MCCURDY M747	8-11	38	0.0	2.6	0.0	--	--	5389	--	--	
HYPERFORMER 1330DR	8-12	46	0.0	1.3	0.0	0.0	0.0	5333	3956*	5868*	
NC+ 271	8- 7	44	0.0	3.0	0.0	0.0	0.0	5330	3491*	5545*	
TRIUMPH TWO 64YG	8- 8	37	0.0	2.6	0.0	0.0	0.0	5312	3120	5745*	
GOLDEN HARVEST H-510B	8-14	38	0.0	2.0	0.0	0.0	0.0	5298	3310	6175*	
GREEN SEED G-820	8-10	39	0.0	3.0	0.0	--	--	5294	--	--	
GOLDEN HARVEST H-505BW	8- 7	43	0.0	3.0	0.0	0.0	--	5262	4037*	--	
JACQUES 408	8- 7	38	0.0	4.3	0.0	--	--	5252	--	--	
PAYMASTER 1022	8- 7	40	0.0	2.6	0.0	--	--	5240	--	--	
TRIUMPH TWO 70-D	8-14	38	0.0	2.3	0.0	0.0	0.0	5233	3416*	5616*	
LYNK 595#	8- 9	38	0.0	3.0	0.0	--	--	5210	--	--	
FONTANELLE 5583	8-14	38	0.0	2.3	0.0	0.0	0.0	5193	3380*	5952*	
PRIZE EXP.205	8- 7	45	0.0	3.3	0.4	--	--	5167	--	--	
PRIZE EXP.206	8-12	39	0.0	3.0	0.0	--	--	5156	--	--	
KITCHEN KSC 870	8-13	39	0.0	2.6	0.0	--	--	5074	--	--	
PAG 4462	8-10	40	0.0	3.3	0.0	0.0	--	5070	3688*	--	
CARGILL 70	8- 6	38	0.0	3.3	0.0	0.0	0.0	5069	3324	5552*	
WARNER W-685 DR	8- 7	45	0.0	2.6	0.8	0.0	--	5056	2966	--	
KITCHEN KSC 865	8-10	37	0.0	3.0	0.0	--	--	5027	--	--	
PAYMASTER R109-A	8-14	37	0.0	3.3	0.0	0.0	--	5019	3545*	--	
PIONEER HYBRID 8515	8- 5	42	0.0	3.0	0.0	0.0	0.0	5019	3098	5873*	
WAC 686	8- 9	37	0.0	2.0	0.0	--	--	5000	--	--	
MCCURDY M737	8- 6	36	0.0	3.3	0.0	0.0	0.0	4994	3255	5763*	
AGRATECH GK 712 G	8- 7	38	0.0	3.3	0.0	0.0	--	4985	3462*	--	
PAG 5665	8- 7	40	0.0	3.3	0.0	0.0	--	4968	3595*	--	
JACQUES 505	8- 5	38	0.0	3.0	0.0	--	--	4944	--	--	
PAG 6658	8-11	40	0.0	3.0	0.0	0.0	--	4871	3771*	--	
CARGILL 55	8- 5	41	0.0	3.6	0.0	0.0	--	4853	3628*	--	
DEKALB DK-46	8-10	43	0.0	2.3	0.0	--	--	4842	--	--	
CONLEE WRANGLER	8-10	48	0.0	2.0	0.0	0.0	--	4826	3380*	--	
CARGILL X31036	8-11	37	0.0	4.3	0.0	--	--	4817	--	--	
DEKALB DK-42Y##	8- 9	39	0.0	2.6	0.0	0.0	0.0	4792	3566*	5517*	
NORTHROP KING 2244	8- 4	40	0.0	2.0	0.0	0.0	0.0	4771	3459*	5530*	
GOLDEN HARVEST H-545B	8-12	36	0.0	3.0	0.0	0.0	0.0	4765	3850*	5951*	
PAYNE SEED PGS-384	8- 4	41	0.0	3.3	0.0	--	--	4723	--	--	
GARRISON SG-688	8- 4	41	0.0	3.3	0.0	--	--	4715	--	--	
NC+ 172	8- 9	38	0.0	2.3	0.0	--	--	4552	--	--	
PIONEER 8585	8- 8	38	0.0	3.3	0.0	--	--	4296	--	--	
MATURITY GROUP 3											
TAYLOR-EVANS T-E Y-77	8-11	42	0.0	1.6	0.0	0.0	0.0	6290**	3357*	5766*	
DEKALB DK-59E	8-17	39	0.0	1.6	0.0	--	--	5882*	--	--	
PAYMASTER DR1125	8-13	38	0.0	2.6	0.0	0.0	0.0	5881*	3789*	6136*	
PAYMASTER 1099	8-10	35	0.0	2.6	0.0	0.0	0.0	5833*	3176	5482	
TERRA HT126DR	8-13	38	0.0	2.3	0.0	0.0	0.0	5744*	3377*	5912*	
WAC 710DR	8-14	37	0.0	2.0	0.0	0.0	0.0	5620	3584*	6208*	
KITCHEN KSC 872	8-12	42	0.0	2.0	0.0	--	--	5573	--	--	
WARNER W-744 DR#	8-12	38	0.0	4.6	0.0	0.0	0.0	5557	3667*	6153*	
GARRISON SG-932	8-14	42	0.0	2.0	0.0	--	--	5549	--	--	
NORTHROP KING X8139	8-12	39	0.4	2.0	0.0	0.0	--	5548	3460*	--	
FONTANELLE 6651	8-13	40	0.0	2.0	0.0	0.0	0.0	5498	3695*	5973*	
FUNKS G-522A	8- 8	39	0.0	5.0	0.0	0.0	0.0	5492	3272	6041*	
FUNKS HW-2308	8- 4	39	0.0	2.6	0.0	--	--	5488	--	--	
RING AROUND RA 787	8-13	42	0.0	2.0	0.0	0.0	0.0	5484	3038	6018*	
JACQUES 606	8-13	42	0.0	2.0	0.0	0.0	0.0	5477	4008*	5973*	
WAC D701 G	8-16	42	0.0	1.3	0.0	0.0	0.0	5476	3603*	5777*	
GROWERS GSC 1295	8-11	40	0.0	2.3	0.0	0.0	--	5461	3266	--	
ASGROW TOPAZ##	8-12	37	0.0	2.3	0.0	0.0	0.0	5430	3395*	5953*	
STAUFFER SEEDS 9750	8-13	39	0.0	2.0	0.0	0.0	--	5427	3831*	--	
MFA GS-384	8- 8	42	0.0	2.3	0.0	--	--	5407	--	--	
MFA GS-301A##	8- 7	38	0.0	2.6	0.0	0.0	0.0	5377	3388*	5703*	
PAG X9408	8-15	42	0.0	1.6	0.0	--	--	5365	--	--	

TABLE 4. CONTINUED

BRAND-HYBRID	1984								YIELD (LB/ACRE)		
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			1984	1983	1982	
					1984	1983	1982				
RING AROUND RA 808	8-10	42	0.0	4.6	0.0	--	--	5327	--	--	
STAUFFER SEEDS 734GR	8- 7	38	0.0	2.3	0.0	--	--	5316	--	--	
FUNKS G-522DR##	8- 9	41	0.0	2.3	0.0	0.0	0.0	5313	3890*	5937*	
GARRISON SG-922	8-10	39	0.0	2.0	0.0	--	--	5313	--	--	
PIONEER HYBRID 8222	8-12	39	0.0	3.0	0.0	0.0	0.0	5299	3808*	5579*	
NC+ 174	8-13	41	0.0	2.0	0.0	0.0	0.0	5274	4123**	6285**	
PIONEER HYBRID 8300	8-13	41	0.0	3.3	0.0	0.0	0.0	5254	3499*	6022*	
GARST 5521	8-10	37	0.0	3.0	0.0	--	--	5252	--	--	
TAYLOR-EVANS T-E DINERO	8-13	38	0.0	2.0	0.0	0.0	0.0	5242	2876	6062*	
ORO G XTRA	8-15	41	0.0	1.6	0.0	0.0	0.0	5207	3446*	5780*	
GARST 5511	8- 7	37	0.0	3.0	0.0	--	--	5204	--	--	
COKER 7675	8-12	41	0.0	2.0	0.0	0.0	0.0	5182	3535*	5886*	
PIONEER HYBRID 8333	8- 6	40	0.0	3.6	0.0	--	--	5172	--	--	
CARGILL 80	8- 7	41	0.0	3.0	0.0	--	--	5124	--	--	
ASGROW MUSTANG##	8- 7	38	0.0	3.6	0.0	0.0	0.0	5115	3689*	5781*	
AGRATECH GK 802 G	8-12	40	0.0	2.0	0.0	0.0	--	5097	3063	--	
GROWERS GSA 1310A	8-10	35	0.0	2.6	0.0	--	--	5058	--	--	
RICHARDSON Y-322A	8- 7	39	0.0	2.6	0.0	--	--	5000	--	--	
NORTHRUP KING 2778##	8- 9	38	0.0	3.0	0.0	0.0	0.0	4993	3573*	5483	
MFA GS-10##	8-12	37	0.0	3.6	0.0	0.0	0.0	4966	3497*	5525*	
WARNER W-851 DR	8-13	37	0.0	2.0	0.0	0.0	0.0	4893	3538*	6031*	
WARNER W-746 DR#	8- 6	40	0.0	3.0	0.0	--	--	4884	--	--	
GARRISON SG-Y85DR	8-11	37	0.9	3.0	0.0	--	--	4838	--	--	
O'S GOLD GS5100	8- 8	38	0.0	3.6	0.0	0.0	0.0	4838	3301	6052*	
ASGROW CHAPARRAL	8-12	41	0.0	2.3	0.0	--	--	4806	--	--	
PAYNE SEED PGS-484	8-13	34	0.0	2.0	0.0	--	--	4741	--	--	
MARTIN	8- 9	36	0.0	2.0	0.0	0.0	0.0	4528	2009	4774	
CARGILL X31095	8-18	34	0.0	2.0	0.0	--	--	4270	--	--	
MATURITY GROUP 4											
FUNKS G-1711	8-11	41	0.0	2.0	0.0	0.0	--	5826*	3522*	--	
O'S GOLD GS712	8-16	43	0.0	2.0	0.0	0.0	0.0	5418	3894*	6216*	
WAC 715DR	8-13	44	0.0	2.0	0.0	0.0	1.0	5362	3769*	5997*	
GARST 5319	8-15	41	0.0	2.0	0.0	--	--	5246	--	--	
ASGROW COLT	8-16	41	0.0	2.0	0.0	0.0	0.0	5193	3573*	5921*	
CARGILL X21062	8-16	37	0.0	3.0	0.0	--	--	4215	--	--	

TRIAL AVERAGE		39	0.0	2.6	0.0	0.3	0.0	5200	3490	5745	
L.S.D. AT .05								642	797	774	

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 5. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED NEAR COLUMBIA ON THE AGRONOMY RESEARCH CENTER IN 1982-84.
 PLANTED: 8 MAY 1984. HARVESTED: 19 SEPTEMBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
MATURITY GROUP 1										
HYPERFORMER 1225DR	7-23	51	0.0	4.3	0.0	0.0	0.0	7238*	5676*	6663
MFA GS-103	7-23	47	0.0	2.3	0.0	--	--	7049	--	--
CARGILL 40	7-23	49	0.0	3.0	0.0	0.0	--	6896	5000	--
RING AROUND RA 433-A	7-22	45	0.0	2.6	0.0	--	--	6228	--	--
STAUFFER SEEDS 530GR	7-22	56	0.0	2.0	3.9	--	--	5892	--	--
TERRA HT45G	7-22	55	0.0	3.3	6.3	--	--	5699	--	--
MATURITY GROUP 2										
WARNER W-839 DR	7-25	51	0.0	3.0	0.0	0.0	0.0	7491*	5656*	7160*
KITCHEN KSC 870	7-25	51	0.0	3.6	0.0	--	--	7269*	--	--
AGRATECH GK 712 G	7-24	49	0.0	2.3	0.0	0.0	--	7135	4853	--
PAYMASTER 1091	7-22	51	0.0	3.6	0.4	--	--	7110	--	--
PAG 662	7-26	53	0.0	4.6	0.0	0.0	1.0	7041	5710*	5830
FUNKS G-550	7-23	56	0.0	2.0	0.2	0.0	0.9	7039	5221	6898*
PIONEER HYBRID 8515	7-24	54	0.0	2.3	0.7	0.0	0.6	6981	5846*	7530*
PRIZE EXP.206	7-23	48	0.0	2.3	0.0	--	--	6978	--	--
TRIUMPH TWO 70-D	7-26	50	0.0	3.0	0.0	0.0	0.0	6933	5429*	7309*
GOLDEN HARVEST H-510B	7-25	49	0.0	3.6	0.0	0.0	0.0	6922	5748*	6814
NC+ 172	7-25	46	0.0	2.6	0.0	--	--	6915	--	--
FONTANELLE 5583	7-25	52	0.0	3.0	0.2	0.0	0.0	6877	5235	6527
GOLDEN HARVEST H-505BW	7-24	57	0.0	2.3	0.0	0.0	--	6843	5973*	--
CONLEE TOP HAND II	7-24	51	0.0	3.3	0.0	0.0	--	6841	5309	--
LYNK 595#	7-24	49	0.0	2.6	0.0	--	--	6840	--	--
DEKALB DK-46	7-25	57	0.0	2.0	0.0	--	--	6809	--	--
PAYMASTER R1090##	7-24	46	0.0	4.6	0.0	0.0	--	6803	5091	--
TRIUMPH TWO 64YG	7-23	44	0.0	3.3	0.0	0.0	0.0	6794	4995	7407*
JACQUES 505	7-24	49	0.0	2.6	0.0	--	--	6732	--	--
KITCHEN KSC 865	7-25	49	0.0	3.6	0.0	--	--	6707	--	--
CARGILL 70	7-25	49	0.0	2.6	0.0	0.0	0.0	6699	4863	6982*
WAC 686	7-24	49	0.8	2.6	1.1	--	--	6689	--	--
MCCURDY M737	7-24	50	0.0	3.0	0.8	0.0	0.0	6682	5570*	6830
GOLDEN HARVEST H-545B	7-24	46	0.0	3.0	0.0	0.0	0.4	6681	5154	6821
MCCURDY M747	7-25	52	0.0	3.3	0.0	--	--	6662	--	--
PAYNE SEED PGS-384	7-23	53	0.0	3.0	0.0	--	--	6638	--	--
PIONEER 8585	7-22	48	0.0	4.6	0.4	--	--	6506	--	--
PAYMASTER 1109-A	7-26	46	0.0	4.6	0.0	0.0	--	6379	5044	--
NC+ 271	7-25	59	0.0	3.0	0.4	0.0	2.3	6362	4645	7589*
NORTHTRUP KING 2244	7-23	49	0.0	5.0	1.0	0.2	0.0	6348	4698	6674
JACQUES 408	7-24	49	0.0	3.3	0.0	--	--	6301	--	--
DEKALB DK-42Y##	7-25	49	0.0	2.0	0.0	0.0	0.0	6223	4846	7282*
GREEN SEED G-820	7-24	49	0.0	3.3	0.0	--	--	6206	--	--
PRIZE EXP.205	7-23	58	0.0	2.6	7.8	--	--	6204	--	--
WARNER W-685 DR	7-23	56	0.0	2.6	4.2	0.0	--	6203	4660	--
GARRISON SG-688	7-24	56	0.0	3.0	0.0	--	--	6193	--	--
PAYMASTER 1022	7-22	50	0.0	3.0	0.0	--	--	6174	--	--
CARGILL X31036	7-24	45	0.0	5.0	0.0	--	--	6173	--	--
PAG 5665	7-21	48	0.0	4.3	0.0	0.0	--	6168	5869*	--
PAG 6658	7-24	54	0.0	4.3	0.0	0.0	--	5973	5428*	--
TRIUMPH TWO 80-D	7-24	53	0.0	2.6	0.0	0.2	0.0	5883	5548*	7650*
PAG 4462	7-22	55	0.0	4.0	5.3	0.0	--	5822	5769*	--
CARGILL 55	7-22	50	0.0	3.6	1.2	0.0	--	5762	5103	--
CONLEE WRANGLER	7-25	60	0.0	2.3	8.6	0.0	--	5666	5161	--
HYPERFORMER 1330DR	7-24	61	0.0	2.0	12.0	0.0	0.0	5449	6083*	6750
MATURITY GROUP 3										
RICHARDSON Y-322A	7-24	53	0.0	2.0	0.7	--	--	8068**	--	--
GROWERS GSC 1295	7-24	51	0.0	3.6	0.0	0.0	--	7504*	5547*	--
FUNKS G-522DR##	7-23	52	0.0	3.6	0.0	0.0	0.0	7386*	5427*	7516*
ASGROW TOPAZ##	7-25	53	0.0	3.3	0.0	0.0	0.0	7306*	6254**	7206*
GARRISON SG-922	7-23	51	0.0	3.6	0.5	--	--	7166*	--	--
FUNKS G-522A	7-24	49	0.0	4.0	0.0	0.0	0.0	7139	5619*	6797
COKER 7675	7-27	49	0.0	3.6	0.0	0.0	0.0	7089	5606*	7206*
AGRATECH GK 802 G	7-23	55	0.0	4.0	1.7	0.0	--	7031	5299	--
GARST 5511	7-23	49	0.0	2.6	0.0	--	--	6980	--	--
WARNER W-744 DR#	7-25	49	0.0	4.3	0.0	0.0	0.0	6959	5833*	7454*
PIONEER HYBRID 8333	7-24	52	0.0	3.0	0.0	--	--	6944	--	--
PAYMASTER DR1125	7-26	49	0.0	3.3	0.0	0.0	0.0	6934	5847*	7200*
ASGROW CHAPARRAL	7-24	54	0.0	2.6	0.0	--	--	6923	--	--
FUNKS HW-2308	7-24	49	0.0	3.3	0.0	--	--	6875	--	--
PIONEER HYBRID 8300	7-24	55	0.0	3.6	0.0	0.0	0.0	6867	5302	7569*
TAYLOR-EVANS T-E Y-77	7-26	55	0.0	2.6	0.0	0.0	1.2	6864	4626	6554
TAYLOR-EVANS T-E DINERO	7-25	47	0.0	3.0	0.0	0.0	0.0	6852	5186	7116*
GARST 5521	7-25	49	0.0	4.0	0.0	--	--	6803	--	--
ORO G XTRA	7-25	55	0.0	2.6	1.4	0.0	0.0	6790	5144	7678**
CARGILL X31095	7-27	47	0.0	2.0	0.0	--	--	6736	--	--
MFA GS-384	7-25	57	0.0	3.0	0.0	--	--	6708	--	--
FONTANELLE 6651	7-25	54	1.1	2.3	0.0	0.0	0.0	6702	5442*	6896*

TABLE 5. CONTINUED

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF- TYPE HEADS (%)	CMPT- NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
DEKALB DK-59E	7-29	48	0.0	2.0	0.0	--	--	6688	--	--
JACQUES 606	7-25	56	0.0	2.3	0.0	0.0	0.0	6686	5754*	7263*
TERRA HT126DR	7-24	51	0.0	3.0	0.0	0.0	0.0	6654	5480*	7107*
O'S GOLD GS5100	7-24	46	0.0	2.3	0.0	0.0	0.0	6640	5111	6988*
NORTHROP KING X8139	7-26	48	0.0	2.3	0.1	0.0	--	6622	5843*	--
ASGROW MUSTANG##	7-24	50	0.0	2.6	0.0	0.0	0.0	6616	5880*	6905*
WARNER W-746 DR#	7-25	50	0.0	4.3	0.0	--	--	6582	--	--
CARGILL 80	7-24	49	0.0	3.3	0.0	--	--	6568	--	--
RING AROUND RA 787	7-25	52	0.0	2.3	0.0	0.0	0.0	6550	5519*	7349*
WAC 710DR	7-26	49	0.0	3.0	0.0	0.0	0.0	6526	5456*	6932*
PAG X9408	7-25	56	0.0	2.3	0.0	--	--	6478	--	--
GARRISON SG-932	7-25	56	0.0	3.0	1.4	--	--	6426	--	--
PIONEER HYBRID 8222	7-24	52	0.0	3.6	0.0	0.0	0.0	6426	4929	6621
WARNER W-851 DR	7-26	51	0.0	2.6	3.3	0.0	0.0	6412	5272	7490*
MFA GS-301A##	7-25	46	0.0	2.6	0.0	0.0	0.0	6381	5137	7053*
STAUFFER SEEDS 734GR	7-24	43	0.0	2.3	0.0	--	--	6371	--	--
NC+ 174	7-23	57	0.0	3.0	1.7	0.0	0.0	6311	5830*	7071*
MFA GS-10##	7-25	48	0.0	4.3	0.0	0.0	0.0	6304	5339*	6861
GROWERS GSA 1310A	7-24	46	0.0	3.3	0.0	--	--	6248	--	--
PAYMASTER 1099	7-23	48	0.0	3.6	0.0	0.0	0.0	6175	6060*	6775
GARRISON SG-Y85DR	7-25	47	0.0	3.0	0.0	--	--	6074	--	--
KITCHEN KSC 872	7-25	55	0.0	2.6	0.0	--	--	6065	--	--
STAUFFER SEEDS 9750	7-25	55	0.0	2.3	0.0	0.0	--	6047	4755	--
PAYNE SEED PGS-484	7-25	52	0.0	3.3	0.0	--	--	6025	--	--
RING AROUND RA 808	7-27	50	0.0	4.0	0.5	--	--	6006	--	--
WAC D701 G	7-25	52	0.0	2.3	0.9	0.0	0.0	5839	5545*	6836
NORTHROP KING 2778##	7-24	53	0.0	3.0	0.0	0.0	0.5	5772	4833	7208*
MARTIN	7-25	47	0.0	4.0	0.0	0.0	0.0	5485	4021	4824
MATURITY GROUP 4										
ASGROW COLT	7-23	57	0.0	3.6	0.0	0.0	0.0	6666	5980*	7477*
O'S GOLD GS712	7-23	52	0.0	2.3	0.0	0.0	0.0	6302	5165	6885
WAC 715DR	7-27	61	0.0	2.0	7.6	0.0	0.9	6081	5593*	6425
GARST 5319	7-26	52	0.0	2.3	0.4	--	--	6032	--	--
FUNKS G-1711	7-23	51	0.0	3.0	1.8	0.0	--	5743	5587*	--
CARGILL X21062	7-29	46	0.0	3.6	0.0	--	--	5557	--	--

TRIAL AVERAGE		51	0.0	3.1	0.7	0.0	0.2	6561	5339	6864
L.S.D. AT .05								914	931	790

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 6. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED NEAR LAMAR ON THE WALLY NORTON FARM IN 1984, THE DON CULVER IN 1983, AND THE CARL BARNHART FARM IN 1982. PLANTED: 15 MAY 1984. HARVESTED: 18 SEPTEMBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
MATURITY GROUP 1										
CARGILL 40	7-22	48	0.0	3.3	25.8	0.0	--	4691*	2625	--
RING AROUND RA 433-A	7-22	43	0.0	2.6	11.7	--	--	4665*	--	--
HYPERFORMER 1225DR	7-25	45	0.0	2.3	10.6	0.0	0.0	4645*	2714	6703*
MFA GS-103	7-21	40	0.0	2.3	7.4	--	--	3937	--	--
STAUFFER SEEDS 530GR	7-22	46	0.0	2.0	41.2	--	--	3685	--	--
TERRA HT45G	7-23	48	0.0	3.0	83.3	--	--	2632	--	--
MATURITY GROUP 2										
DEKALB DK-46	7-27	58	0.0	2.0	0.8	--	--	5373**	--	--
KITCHEN KSC 865	7-24	46	0.0	3.0	17.1	--	--	5058*	--	--
CARGILL X31036	7-25	43	0.0	4.6	7.1	--	--	4985*	--	--
NC+ 271	7-25	50	0.0	2.0	10.7	0.0	0.0	4970*	3249*	6658*
GOLDEN HARVEST H-505BW	7-21	49	0.0	2.3	10.9	0.0	--	4913*	2669	--
CONLEE TOP HAND II	7-24	45	0.0	2.6	48.6	0.0	--	4909*	1969	--
DEKALB DK-42Y##	7-24	47	0.0	2.0	1.1	0.0	0.0	4884*	2891	5862
FONTANELLE 5583	7-23	45	0.0	3.3	27.9	0.0	0.0	4763*	2972	6671*
PAG 662	7-24	45	0.0	3.6	11.4	0.0	0.0	4738*	2533	6164
PRIZE EXP.206	7-22	45	0.0	2.6	33.2	--	--	4715*	--	--
PAYMASTER 1022	7-22	50	0.0	2.6	55.9	--	--	4714*	--	--
FUNKS G-550	7-22	51	0.0	2.0	25.8	0.0	0.0	4685*	3229*	6600*
MCCURDY M737	7-22	44	0.0	2.6	62.5	0.0	0.0	4626*	2825	5961
PIONEER 8585	7-21	42	0.5	3.6	3.8	--	--	4596*	--	--
PAYMASTER R109-A	7-22	45	0.0	3.3	61.4	0.0	--	4557*	2432	--
WARNER W-839 DR	7-25	45	0.0	3.0	36.9	0.0	0.0	4552*	2725	6423
JACQUES 505	7-23	49	0.0	3.0	28.3	--	--	4504*	--	--
TRIUMPH TWO 70-D	7-24	45	0.0	3.0	19.1	0.0	0.0	4452*	2197	7205*
MCCURDY M747	7-22	51	0.2	3.3	67.2	--	--	4440*	--	--
TRIUMPH TWO 80-D	7-24	50	0.0	2.6	72.0	0.0	0.0	4430*	2692	6613*
PRIZE EXP.205	7-22	53	0.2	3.0	95.3	--	--	4338*	--	--
HYPERFORMER 1330DR	7-24	51	0.0	2.0	86.1	0.0	5.2	4294*	2819	6118
NC+ 172	7-24	42	0.0	2.6	51.1	--	--	4241*	--	--
WARNER W-685 DR	7-24	55	0.0	2.3	67.3	0.0	--	4214*	2568	--
CARGILL 70	7-23	46	0.9	3.0	67.2	0.0	0.0	4198*	3052*	6103
NORTHROP KING 2244	7-22	39	0.0	3.0	29.6	0.0	0.0	4170*	2429	6376
CONLEE WRANGLER	7-24	55	0.2	3.0	78.6	0.0	--	4081*	2659	--
PAYMASTER R1090##	7-25	49	0.0	3.6	50.8	0.0	--	4024	3723**	--
JACQUES 408	7-24	44	0.0	3.3	40.9	--	--	3877	--	--
PIONEER HYBRID 8515	7-23	46	0.0	3.0	54.7	0.0	0.0	3868	3036*	6492
GOLDEN HARVEST H-545B	7-23	41	0.0	3.3	22.2	0.0	0.0	3835	2935	6363
PAG 4462	7-20	51	0.0	3.6	88.6	0.0	--	3831	2384	--
KITCHEN KSC 870	7-24	46	0.0	3.0	39.8	--	--	3797	--	--
LYNK 595#	7-22	46	0.0	3.0	64.1	--	--	3773	--	--
AGRATECH GK 712 G	7-23	46	0.0	2.6	51.3	0.0	--	3694	2362	--
GREEN SEED G-820	7-24	45	0.0	3.0	19.2	--	--	3681	--	--
WAC 686	7-23	46	0.7	2.6	55.3	--	--	3605	--	--
TRIUMPH TWO 64YG	7-22	43	0.0	3.0	63.9	0.0	0.0	3584	2819	6230
PAG 6658	7-27	44	0.0	2.6	34.0	0.0	--	3559	2517	--
GOLDEN HARVEST H-510B	7-24	41	0.0	3.0	50.2	0.0	0.0	3526	2445	6088
GARRISON SG-688	7-22	43	0.0	2.6	93.0	--	--	3369	--	--
PAYMASTER 1091	7-24	45	0.0	3.0	40.2	--	--	3368	--	--
PAG 5665	7-24	39	0.0	3.6	54.9	0.0	--	3194	2952	--
PAYNE SEED PGS-384	7-23	50	0.0	2.0	68.8	--	--	3066	--	--
CARGILL 55	7-23	43	0.0	2.6	82.3	0.0	--	2822	3007	--
MATURITY GROUP 3										
GROWERS GSC 1295	7-25	48	0.0	2.6	51.1	0.0	--	5058*	2470	--
NORTHROP KING X8139	7-24	45	0.0	2.0	6.4	0.0	--	4949*	2548	--
RING AROUND RA 787	7-26	54	0.0	2.0	25.6	0.0	0.0	4844*	2835	6733*
PIONEER HYBRID 8300	7-25	48	0.0	2.6	7.0	0.0	0.0	4783*	2784	6972*
NC+ 174	7-25	50	0.0	2.0	29.8	0.0	0.0	4755*	3028*	6894*
FUNKS G-522DR##	7-23	48	0.0	2.6	41.5	0.0	0.0	4722*	2559	6379
O'S GOLD GS5100	7-23	43	0.0	3.3	42.8	0.0	0.0	4704*	2782	6392
PAYMASTER DR1125	7-24	47	0.0	3.3	53.7	0.0	0.0	4691*	2699	6490
FONTANELLE 6651	7-25	50	0.0	2.3	46.9	0.0	0.0	4673*	2702	6254
STAUFFER SEEDS 734GR	7-25	49	0.0	3.0	40.4	--	--	4646*	--	--
AGRATECH GK 802 G	7-25	46	0.0	3.0	12.4	0.0	--	4644*	2839	--
GARRISON SG-932	7-24	50	0.0	2.0	57.7	--	--	4629*	--	--
PAYNE SEED PGS-484	7-25	47	0.0	3.3	42.8	--	--	4595*	--	--
MFA GS-10##	7-25	46	0.0	3.6	17.3	0.0	0.0	4564*	2373	6230
WAC D701 G	7-25	48	0.0	2.3	43.4	0.0	0.0	4533*	3344*	6347
FUNKS G-522A	7-24	44	0.0	3.6	74.5	0.0	0.0	4520*	2726	6416
WARNER W-744 DR#	7-25	43	0.5	3.6	27.1	0.0	0.0	4496*	2991	7152*
ASGROW TOPAZ##	7-25	46	0.0	2.6	42.2	0.0	0.0	4486*	2730	6761*
ASGROW MUSTANG##	7-24	47	0.0	2.3	34.0	0.0	0.0	4446*	2999	6181
CARGILL 80	7-24	46	0.0	2.6	18.3	--	--	4441*	--	--
MFA GS-301A##	7-23	43	0.0	2.6	35.1	0.0	0.0	4433*	2200	6037

TABLE 6. CONTINUED.

BRAND-HYBRID	1984				LOGGING (%)			YIELD (LB/ACRE)		
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	1984	1983	1982	1984	1983	1982
	WAC 710DR	7-24	47	0.0	3.6	39.3	0.0	0.0	4414*	2886
PIONEER HYBRID 8222	7-24	45	0.2	3.0	3.9	0.0	0.0	4388*	2738	6600*
DEKALB DK-59E	7-26	42	0.0	2.6	7.9	--	--	4340*	--	--
FUNKS HW-2308	7-24	42	0.0	3.6	12.5	--	--	4248*	--	--
TAYLOR-EVANS T-E Y-77	7-23	48	0.0	2.0	37.4	0.0	0.4	4221*	2365	6857*
GARRISON SG-Y85DR	7-23	48	0.0	2.6	18.6	--	--	4198*	--	--
MFA GS-384	7-24	53	0.0	2.0	64.8	--	--	4185*	--	--
TAYLOR-EVANS T-E DINERO	7-24	48	0.0	3.3	44.5	0.0	0.0	4173*	2810	6036
GARRISON SG-922	7-24	46	0.0	3.3	16.1	--	--	4159*	--	--
GARST 5521	7-24	48	0.0	2.6	68.2	--	--	4143*	--	--
TERRA HT126DR	7-24	43	0.0	2.6	49.8	0.0	0.0	4121*	2961	6394
JACQUES 606	7-24	47	0.0	2.3	54.7	0.0	0.0	4105*	2776	6226
KITCHEN KSC 872	7-25	49	0.0	2.0	33.4	--	--	4064*	--	--
GROWERS GSA 1310A	7-23	48	0.0	3.0	46.2	--	--	4014	--	--
ORO G XTRA	7-23	46	0.0	2.0	13.4	0.0	0.0	3966	2917	6729*
NORTHRUP KING 2778##	7-21	48	0.0	3.3	79.4	0.0	0.0	3911	2793	6195
STAUFFER SEEDS 9750	7-25	50	0.0	2.6	71.2	0.0	--	3798	3012*	--
RING AROUND RA 808	7-24	48	0.0	4.0	54.3	--	--	3772	--	--
ASGROW CHAPARRAL	7-25	41	0.0	2.6	64.7	--	--	3718	--	--
PIONEER HYBRID 8333	7-23	43	0.0	3.0	43.1	--	--	3654	--	--
RICHARDSON Y-322A	7-25	44	0.0	2.6	61.5	--	--	3648	--	--
WARNER W-851 DR	7-24	43	0.0	2.6	75.7	0.0	0.0	3590	2134	6526
MARTIN	7-26	44	0.0	4.0	20.5	0.0	0.0	3558	1834	4365
PAG X9408	7-25	46	0.0	2.3	60.7	--	--	3531	--	--
WARNER W-746 DR#	7-20	49	0.0	4.0	47.2	--	--	3531	--	--
PAYMASTER 1099	7-21	45	0.0	2.3	67.2	0.0	0.0	3458	2863	6394
GARST 5511	7-24	44	0.0	3.0	48.9	--	--	3431	--	--
CARGILL X31095	7-26	40	0.0	2.0	31.9	--	--	3372	--	--
COKER 7675	7-25	41	0.0	3.0	35.5	0.0	0.0	3307	2701	6422
MATURITY GROUP 4										
FUNKS G-1711	7-24	43	0.0	2.3	64.9	0.0	--	4426*	3399*	--
O'S GOLD GS712	7-25	51	0.0	2.0	42.0	0.0	0.0	4384*	2516	6305
ASGROW COLT	7-26	47	0.0	3.0	55.4	4.0	0.0	4258*	2180	7335**
WAC 715DR	7-24	50	0.0	2.0	77.4	0.0	3.9	3854	3135*	6474
GARST 5319	7-25	46	0.0	2.3	31.3	--	--	3765	--	--
CARGILL X21062	7-30	41	0.0	3.6	27.0	--	--	3678	--	--

TRIAL AVERAGE		46	0.0	2.8	42.5	0.1	0.1	4188	2720	6289
L.S.D. AT .05								1320	714	803

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 7. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED NEAR PARMA ON THE CLAUDE KEASLER FARM IN 1982-84. PLANTED: 23 MAY 1984. HARVESTED: 19 OCTOBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
MATURITY GROUP 1										
CARGILL 40	7-21	51	0.0	4.0	0.0	3.6	--	8700*	5610	--
HYPERFORMER 1225DR	7-23	53	0.0	1.0	0.0	0.0	0.0	8231*	9189*	7059
STAUFFER SEEDS 530GR	7-21	52	0.0	1.0	0.0	--	--	8134*	--	--
TERRA HT45G	7-18	52	0.0	1.6	0.0	--	--	6652	--	--
MFA GS-103	7-18	50	0.1	1.0	0.0	--	--	6201	--	--
RING AROUND RA 433-A	7-21	48	0.0	1.0	0.0	--	--	6160	--	--
MATURITY GROUP 2										
HYPERFORMER 1330DR	7-21	61	0.0	1.3	0.1	0.9	0.0	9558**	3705	7830*
PAYMASTER 1022	7-19	52	0.0	1.3	0.0	--	--	9297*	--	--
PAG 6658	7-22	59	0.0	3.3	0.0	2.5	--	8957*	6014	--
CONLEE WRANGLER	7-23	59	0.0	1.0	0.0	2.1	--	8754*	8662*	--
WARNER W-685 DR	7-17	59	0.0	1.3	0.0	8.0	--	8752*	6473	--
PIONEER HYBRID 8515	7-19	53	0.0	1.6	0.0	11.9	0.0	8745*	4775	7601*
TRIUMPH TWO 80-D	7-25	55	0.1	1.0	0.0	8.0	0.0	8627*	6239	7566*
PAYMASTER 1091	7-21	52	0.0	2.0	0.0	--	--	8568*	--	--
PAG 5665	7-21	50	0.0	4.3	0.0	16.0	--	8414*	6476	--
DEKALB DK-46	7-23	57	2.5	1.6	0.0	--	--	8402*	--	--
WAC 686	7-21	54	0.1	1.3	0.0	--	--	8358*	--	--
PAYNE SEED PGS-384	7-18	55	0.1	2.0	0.0	--	--	8303*	--	--
JACQUES 505	7-23	50	0.0	1.3	0.0	--	--	8258*	--	--
NC+ 271	7-22	54	0.5	3.0	0.0	8.4	0.0	8179*	6491	7054
TRIUMPH TWO 64YG	7-22	50	0.0	2.3	0.0	6.9	0.0	8145*	5766	6732
FUNKS G-550	7-22	53	0.3	1.0	0.0	2.3	0.0	8116*	6668	6012
GOLDEN HARVEST H-505BW	7-24	55	0.0	3.3	0.4	13.0	--	8107*	6904	--
CARGILL X31036	7-21	49	0.0	4.0	0.0	--	--	8020	--	--
GARRISON SG-688	7-19	52	0.0	1.6	0.0	--	--	8019	--	--
GOLDEN HARVEST H-545B	7-22	52	0.0	4.0	0.0	18.6	0.0	8000	5706	7842*
LYNK 595#	7-24	49	0.0	1.6	0.0	--	--	7963	--	--
CARGILL 55	7-23	52	0.0	3.6	0.0	20.1	--	7907	7024	--
PRIZE EXP.205	7-26	59	0.0	2.3	2.0	--	--	7888	--	--
PAYMASTER R109-A	7-19	48	0.0	4.0	0.0	5.6	--	7810	5861	--
AGRATECH GK 712 G	7-23	49	0.0	1.6	0.0	0.7	--	7794	4943	--
PAG 4462	7-18	53	0.0	3.3	0.0	19.2	--	7783	4083	--
CARGILL 70	7-21	50	0.1	3.0	0.0	4.9	0.0	7760	5509	6639
DEKALB DK-42Y##	7-24	50	0.4	1.3	0.1	12.2	0.0	7746	5580	6857
PAYMASTER R1090##	7-23	51	0.0	4.6	0.1	2.4	--	7673	7818*	--
KITCHEN KSC 865	7-19	52	0.0	4.0	0.0	--	--	7641	--	--
CONLEE TOP HAND II	7-22	52	0.0	2.0	0.0	4.0	--	7623	8439*	--
MCCURDY M747	7-22	50	0.0	1.6	0.0	--	--	7388	--	--
KITCHEN KSC 870	7-22	52	0.1	1.3	0.0	--	--	7351	--	--
NORTHRUP KING 2244	7-17	49	0.0	3.3	0.0	0.2	0.0	7344	5779	6311
NC+ 172	7-24	48	0.4	2.0	0.0	--	--	7281	--	--
FONTANELLE 5583	7-23	51	0.0	1.0	0.0	7.5	0.0	7242	6500	7089
WARNER W-839 DR	7-22	53	0.0	1.3	0.0	3.0	0.0	7241	7115	7490*
PRIZE EXP.206	7-23	47	0.1	1.6	0.0	--	--	7146	--	--
PAG 662	7-24	55	0.0	5.0	0.0	2.6	0.0	7081	6271	7689*
GOLDEN HARVEST H-510B	7-24	52	0.0	1.3	0.0	5.8	0.0	7069	6553	6837
MCCURDY M737	7-23	48	0.0	1.3	0.0	0.9	0.0	6985	6468	6227
JACQUES 408	7-22	56	0.0	5.0	0.0	--	--	6951	--	--
TRIUMPH TWO 70-D	7-22	53	0.0	1.3	0.0	8.6	0.0	6790	7039	6922
PIONEER 8585	7-24	52	0.0	1.6	0.0	--	--	6577	--	--
GREEN SEED G-820	7-22	49	0.0	3.6	0.0	--	--	6419	--	--
MATURITY GROUP 3										
PIONEER HYBRID 8300	7-23	56	0.0	4.6	0.0	5.2	0.0	9217*	6822	7216
TAYLOR-EVANS T-E Y-77	7-23	56	0.0	1.0	0.0	0.0	0.0	9141*	9414**	6888
NC+ 174	7-23	57	0.0	1.0	0.0	3.4	0.1	9110*	7008	8239*
GARST 5521	7-21	51	0.1	2.0	0.0	--	--	9070*	--	--
WAC D701 G	7-22	55	0.1	1.0	0.1	6.0	0.0	9009*	6316	7163
GROWERS GSA 1310A	7-22	49	0.0	2.0	0.0	--	--	8897*	--	--
PAYMASTER DR1125	7-23	52	0.0	1.3	0.0	13.3	0.0	8852*	6959	7131
COKER 7675	7-21	54	0.0	1.6	0.1	15.2	0.0	8825*	5796	7268
MFA GS-384	7-24	56	0.0	1.0	0.0	--	--	8820*	--	--
NORTHRUP KING 2778##	7-22	57	0.4	2.0	0.0	10.1	0.0	8797*	7419*	6580
RING AROUND RA 787	7-26	56	0.0	1.0	0.0	19.7	0.0	8724*	6708	7603*
ASGROW TOPAZ##	7-24	55	0.0	1.6	0.0	7.7	0.0	8708*	5251	7474*
STAUFFER SEEDS 9750	7-24	54	0.0	1.0	0.0	2.6	--	8690*	7091	--
GARRISON SG-932	7-23	55	0.0	1.0	0.0	--	--	8635*	--	--
STAUFFER SEEDS 734GR	7-22	52	0.0	2.0	0.0	--	--	8557*	--	--
AGRATECH GK 802 G	7-21	53	0.0	1.6	0.0	3.8	--	8518*	4887	--
PIONEER HYBRID 8333	7-23	52	0.0	4.3	0.0	--	--	8434*	--	--
ASGROW MUSTANG##	7-23	50	0.0	1.6	0.1	1.5	0.0	8364*	6990	6769
PAG X9408	7-24	54	0.0	1.0	0.0	--	--	8346*	--	--
PAYNE SEED PGS-484	7-22	52	0.0	1.3	0.0	--	--	8281*	--	--
WARNER W-851 DR	7-20	50	0.0	1.3	0.0	3.4	0.0	8265*	6345	8011*

TABLE 7. CONTINUED.

BRAND-HYBRID	1984					LODGING (%)			YIELD (LB/ACRE)		
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	1984	1983	1982	1984	1983	1982	
	FONTANELLE 6651	7-24	53	0.0	1.0	0.0	7.4	0.0	8185*	6708	6683
WARNER W-744 DR#	7-25	56	0.0	5.0	0.0	1.7	0.0	8089*	6662	7896*	
ORO G XTRA	7-25	55	0.0	1.0	0.0	0.0	0.1	8074*	7921*	7604*	
RICHARDSON Y-322A	7-21	53	0.1	1.3	0.0	--	--	8055*	--	--	
RING AROUND RA 808	7-23	52	0.1	3.0	0.0	--	--	7994	--	--	
FUNKS G-522A	7-21	50	0.0	4.3	0.0	1.9	0.0	7989	7383*	7170	
NORTHROP KING X8139	7-22	51	0.0	1.0	0.0	18.6	--	7898	5450	--	
PIONEER HYBRID 8222	7-26	52	0.4	3.3	0.0	1.3	0.0	7893	7027	7277	
WARNER W-746 DR#	7-21	57	0.0	4.0	0.0	--	--	7882	--	--	
TERRA HT126DR	7-23	51	0.0	1.3	0.0	9.8	0.0	7845	6077	7858*	
JACQUES 606	7-24	53	0.0	1.0	0.0	--	--	7789	--	--	
CARGILL X31095	7-25	52	0.0	1.0	0.0	--	--	7761	--	--	
WAC 710DR	7-21	52	0.0	1.6	0.0	30.0	0.0	7701	6000	7071	
MFA GS-301A##	7-24	50	0.0	2.0	0.0	7.3	0.0	7602	6488	7522*	
ASGROW CHAPARRAL	7-23	52	0.0	1.6	0.0	--	--	7577	--	--	
GARRISON SG-Y85DR	7-20	53	0.0	3.0	0.0	--	--	7526	--	--	
FUNKS HW-2308	7-21	49	0.0	1.3	0.0	--	--	7503	--	--	
MFA GS-10##	7-23	48	0.0	4.0	0.0	6.2	0.0	7423	6813	6638	
CARGILL 80	7-26	51	0.0	2.3	0.0	--	--	7401	--	--	
DEKALB DK-59E	7-26	53	0.0	1.6	0.0	--	--	7335	--	--	
PAYMASTER 1099	7-24	49	0.0	2.3	0.0	5.6	0.0	7316	5941	5593	
FUNKS G-522DR##	7-24	53	0.0	1.0	0.0	14.8	0.0	7299	7313*	7366*	
GROWERS GSC 1295	7-23	50	0.0	2.0	0.0	7.5	--	7236	5856	--	
O'S GOLD GS5100	7-23	48	0.1	2.0	0.0	10.7	0.1	7120	5644	8322*	
TAYLOR-EVANS T-E DINERO	7-23	50	0.0	1.3	0.2	5.5	0.0	6882	7867*	7917*	
GARRISON SG-922	7-24	52	0.0	1.0	0.0	--	--	6819	--	--	
KITCHEN KSC 872	7-24	52	0.0	1.0	0.0	--	--	6776	--	--	
GARST 5511	7-25	50	0.0	1.6	0.0	--	--	6767	--	--	
MARTIN	7-19	47	0.4	3.6	0.0	3.0	0.0	5273	3256	5040	
MATURITY GROUP 4											
FUNKS G-1711	7-23	54	0.0	1.0	0.0	1.8	--	8321*	7654*	--	
ASGROW COLT	7-29	55	0.0	3.6	1.1	--	--	8209*	--	--	
WAC 715DR	7-23	63	0.0	1.0	0.0	0.8	0.0	7953	8265*	8045*	
CARGILL X21062	7-29	52	0.0	5.0	0.0	--	--	7736	--	--	
O'S GOLD GS712	7-25	53	0.0	1.0	0.0	--	--	7390	--	--	
GARST 5319	7-23	53	0.0	1.3	0.2	--	--	7024	--	--	
TRIAL AVERAGE		52	0.1	2.1	0.0	7.4	0.0	7897	6373	6862	
L.S.D. AT .05								1532	2175	1026	

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 8. PERFORMANCE RECORD OF GRAIN SORGHUM HYBRIDS EVALUATED AT FOUR MISSOURI LOCATIONS (NOVELTY, COLUMBIA, LAMAR, AND PARMA) IN 1984.

BRAND-HYBRID	Y I E L D (LB/ACRE)				MEAN
	NOVELTY	COLUMBIA	LAMAR	PARMA	
MATURITY GROUP 1					
CARGILL 40	5205	6896	4691*	8700*	6373*
HYPERFORMER 1225DR	5022	7238*	4645*	8231*	6284*
MFA GS-103	5370	7049	3937	6201	5639
STAUFFER SEEDS 530GR	4791	5892	3685	8134*	5626
RING AROUND RA 433-A	5006	6228	4665*	6160	5515
TERRA HT45G	5081	5699	2632	6652	5016
MATURITY GROUP 2					
FUNKS G-550	5684*	7039	4685*	8116*	6381*
DEKALB DK-46	4842	6809	5373**	8402*	6357*
PAYMASTER 1022	5240	6174	4714*	9297*	6356*
GOLDEN HARVEST H-505BW	5262	6843	4913*	8107*	6281*
CONLEE TOP HAND II	5725*	6841	4909*	7623	6275*
PAYMASTER 1091	5854*	7110	3368	8568*	6225*
NC+ 271	5330	6362	4970*	8179*	6210*
WARNER W-839 DR	5502	7491*	4552*	7241	6197*
HYPERFORMER 1330DR	5333	5449	4294*	9558**	6159*
PIONEER HYBRID 8515	5019	6981	3868	8745*	6153*
PAG 662	5697*	7041	4738*	7081	6139*
TRIUMPH TWO 80-D	5513	5883	4430*	8627*	6113*
JACQUES 505	4944	6732	4504*	8258*	6110*
KITCHEN KSC 865	5027	6707	5058*	7641	6108*
WARNER W-685 DR	5056	6203	4214*	8752*	6056
PAYMASTER R1090##	5625	6803	4024	7673	6031
FONTANELLE 5583	5193	6877	4763*	7242	6019
CARGILL X31036	4817	6173	4985*	8020	5999
PRIZE EXP.206	5156	6978	4715*	7146	5999
MCCURDY M747	5389	6662	4440*	7388	5970
TRIUMPH TWO 64YG	5312	6794	3584	8145*	5959
LYNK 595#	5210	6840	3773	7963	5947
PAYMASTER R109-A	5019	6379	4557*	7810	5941
CARGILL 70	5069	6699	4198*	7760	5932
WAC 686	5000	6689	3605	8358*	5913
DEKALB DK-42Y##	4792	6223	4884*	7746	5911
AGRATECH GK 712 G	4985	7135	3694	7794	5902
PRIZE EXP.205	5167	6204	4338*	7888	5899
KITCHEN KSC 870	5074	7269*	3797	7351	5873
TRIUMPH TWO 70-D	5233	6933	4452*	6790	5852
PAG 6658	4871	5973	3559	8957*	5840
CONLEE WRANGLER	4826	5666	4081*	8754*	5832
MCCURDY M737	4994	6682	4626*	6985	5822
GOLDEN HARVEST H-545B	4765	6681	3835	8000	5820
NC+ 172	4552	6915	4241*	7281	5747
GOLDEN HARVEST H-510B	5298	6922	3526	7069	5704
PAG 5665	4968	6168	3194	8414*	5686
PAYNE SEED PGS-384	4723	6638	3066	8303*	5683
NORTHROP KING 2244	4771	6348	4170*	7344	5658
PAG 4462	5070	5822	3831	7783	5627
JACQUES 408	5252	6301	3877	6951	5595
GARRISON SG-688	4715	6193	3369	8019	5574
PIONEER 8585	4296	6506	4596*	6577	5494
GREEN SEED G-820	5294	6206	3681	6419	5400
CARGILL 55	4853	5762	2822	7907	5336
MATURITY GROUP 3					
TAYLOR-EVANS T-E Y-77	6290**	6864	4221*	9141*	6629**
PAYMASTER DR1125	5881*	6934	4691*	8852*	6590*
PIONEER HYBRID 8300	5254	6867	4783*	9217*	6530*
ASGROW TOPAZ##	5430	7306*	4486*	8708*	6483*
RING AROUND RA 787	5484	6550	4844*	8724*	6401*
NC+ 174	5274	6311	4755*	9110*	6363*
AGRATECH GK 802 G	5097	7031	4644*	8518*	6323*
GARST 5521	5252	6803	4143*	9070*	6317*
GROWERS GSC 1295	5461	7504*	5058*	7236	6315*
GARRISON SG-932	5549	6426	4629*	8635*	6310*
FUNKS G-522A	5492	7139	4520*	7989	6285*
MFA GS-384	5407	6708	4185*	8820*	6280*
WARNER W-744 DR#	5557	6959	4496*	8089*	6275*
FONTANELLE 6651	5498	6702	4673*	8185*	6265*
NORTHROP KING X8139	5548	6622	4949*	7898	6254*
STAUFFER SEEDS 7346R	5316	6371	4646*	8557*	6223*
WAC D701 G	5476	5839	4533*	9009*	6214*
RICHARDSON Y-322A	5000	8068**	3648	8055*	6193*
FUNKS G-522DR##	5313	7386*	4722*	7299	6180*
ASGROW MUSTANG##	5115	6616	4446*	8364*	6135*
COKER 7675	5182	7089	3307	8825*	6101*
TERRA HT126DR	5744*	6654	4121*	7845	6091*
WAC 710DR	5620	6526	4414*	7701	6065
DEKALB DK-59E	5882*	6688	4340*	7335	6061
GROWERS GSA 1310A	5058	6248	4014	8897*	6054

TABLE 8. CONTINUED.

BRAND-HYBRID	Y I E L D (LB/ACRE)				
	NOVELTY	COLUMBIA	LAMAR	PARMA	MEAN
PIONEER HYBRID 8333	5172	6944	3654	8434*	6051
FUNKS HW-2308	5488	6875	4248*	7503	6029
JACQUES 606	5477	6686	4105*	7789	6014
ORO G XTRA	5207	6790	3966	8074*	6009
PIONEER HYBRID 8222	5299	6426	4388*	7893	6002
STAUFFER SEEDS 9750	5427	6047	3798	8690*	5991
MFA GS-301A##	5377	6381	4433*	7602	5948
PAG X9408	5365	6478	3531	8346*	5930
PAYNE SEED PGS-484	4741	6025	4595*	8281*	5911
CARGILL 80	5124	6568	4441*	7401	5884
NORTHRUP KING 2778##	4993	5772	3911	8797*	5868
GARRISON SG-922	5313	7166*	4159*	6819	5864
O'S GOLD GS5100	4838	6640	4704*	7120	5826
MFA GS-10##	4966	6304	4564*	7423	5814
WARNER W-851 DR	4893	6412	3590	8265*	5790
TAYLOR-EVANS T-E DINERO	5242	6852	4173*	6882	5787
RING AROUND RA 808	5327	6006	3772	7994	5775
ASGROW CHAPARRAL	4806	6923	3718	7577	5756
WARNER W-746 DR#	4884	6582	3531	7882	5720
PAYMASTER 1099	5833*	6175	3458	7316	5696
GARRISON SG-Y85DR	4838	6074	4198*	7526	5659
KITCHEN KSC 872	5573	6065	4064*	6776	5620
GARST 5511	5204	6980	3431	6767	5596
CARGILL X31095	4270	6736	3372	7761	5535
MARTIN	4528	5485	3558	5273	4711
MATURITY GROUP 4					
ASGROW COLT	5193	6666	4258*	8209*	6082*
FUNKS G-1711	5826*	5743	4426*	8321*	6079*
O'S GOLD GS712	5418	6302	4384*	7390	5874
WAC 715DR	5362	6081	3854	7953	5813
GARST 5319	5246	6032	3765	7024	5517
CARGILL X21062	4215	5557	3678	7736	5297
TRIAL AVERAGE	5200	6561	4188	7897	5961
L.S.D. AT .05	642	914	1320	1532	559

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 9. PERFORMANCE OF DOUBLE CROP GRAIN SORGHUM HYBRIDS EVALUATED NEAR COLUMBIA ON THE AGRONOMY RESEARCH CENTER IN 1982-84. PLANTED: 9 JULY 1984. HARVESTED: 7 NOVEMBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
MATURITY GROUP 1										
DEKALB DK-38	9- 6	43	0.0	2.6	0.0	0.0	0.0	2285*	2755*	2758
PIONEER HYBRID 8585	9-15	39	0.0	2.3	0.0	--	--	1879*	--	--
STAUFFER SEEDS 535GR	9-10	44	0.0	2.0	0.0	--	--	1169	--	--
RING AROUND RA 433-A	9-11	37	0.0	2.0	0.0	--	--	1117	--	--
NORTHRUP KING 1210	9- 3	35	0.0	4.7	0.0	0.0	0.0	1094	1728	3040*
CARGILL 30	9- 8	36	0.0	2.6	0.0	--	--	1041	--	--
TRIUMPH TWO 54YG	9-11	42	0.0	2.0	2.2	0.0	0.0	979	2301*	3333*
PAG 4462	9-16	46	0.0	1.6	1.5	--	--	948	--	--
TAYLOR-EVANS T-E Y-44-R	9-10	38	0.2	2.6	0.0	0.0	0.0	941	1930	3398*
RICHARDSON 85E#	9- 6	42	0.0	1.6	0.0	--	--	857	--	--
PIONEER HYBRID 8790	9- 6	37	0.0	2.3	0.0	--	--	701	--	--
WAC 652G	9- 9	47	0.0	2.3	0.9	--	--	676	--	--
TAYLOR-EVANS T-E Y-45-G	9- 7	42	0.0	2.3	0.0	0.0	0.0	653	2866*	2750
PIONEER HYBRID 8680	9- 9	39	0.0	1.3	0.0	0.0	0.0	586	2561*	2495
TRIUMPH TWO 50YG	9-10	36	0.0	1.3	0.0	0.0	0.0	584	2171	--
GROWERS SG 10	9- 6	38	0.0	2.3	0.0	--	--	504	--	--
PAG 3385	9-13	38	0.0	1.0	0.0	--	--	323	--	--
TAYLOR-EVANS T-E DINERO-E	9-22	40	0.0	1.6	0.0	--	--	199	--	--
PAG 3339	9-12	42	0.0	2.3	1.9	--	--	141	--	--
MATURITY GROUP 2										
PAYMASTER 1022	9-10	39	0.0	1.6	0.0	0.0	--	2386**	2273*	--
FUNKS G-1400	9- 9	40	0.0	2.0	0.0	0.0	--	1703*	2643*	--
DEKALB DK-42Y##	9-19	39	0.0	1.7	0.0	0.0	--	1404	2317*	--
PIONEER HYBRID 8515	9-13	41	0.0	2.3	0.0	--	--	1351	--	--
ASGROW NUGGET	9-19	39	0.0	1.6	0.0	--	--	932	--	--
PAYMASTER R1090##	9-22	40	0.0	1.7	0.0	0.0	--	650	3138*	--
O'S GOLD GS709	9-10	43	0.0	2.0	3.6	0.0	0.0	645	2213*	2942
NORTHRUP KING 2244	9-13	41	0.0	2.0	0.0	0.0	--	596	2241*	--
WARNER W-685 DR	9- 9	46	0.0	1.6	0.0	0.0	--	559	2768*	--
WAC 686	9-16	46	0.3	1.3	0.0	--	--	556	--	--
GARRISON SG-688	9- 9	39	0.0	1.6	1.5	--	--	435	--	--
FUNKS G-550	9-17	40	0.0	1.3	0.0	--	--	334	--	--
GARRISON SG-686	9- 9	42	0.0	1.6	0.0	--	--	327	--	--
WARNER W-832 DR	9 20	45	0.0	1.0	0.2	0.0	--	129	3037*	--
PAYMASTER R109-A	9-24	40	0.0	1.6	0.0	0.0	--	0	3119*	--
PAYMASTER 1091	9-23	47	0.0	1.0	0.0	--	--	0	--	--
MATURITY GROUP 3										
ASGROW TOPAZ##	9-27	42	0.0	1.0	0.0	0.0	--	794	3003*	--
ASGROW MUSTANG##	9-21	38	0.0	2.0	0.0	--	--	163	--	--
FUNKS G-522DR##	9-25	39	0.0	1.6	0.0	0.0	--	161	3480*	--
MFA GS-10##	9-24	39	0.0	2.0	0.0	0.0	--	0	2025	--
MFA GS-301A##	9-22	38	0.0	2.0	0.0	0.0	--	0	2168	--
MFA GS-384	9-20	45	0.0	1.3	0.0	--	--	0	--	--
TRIAL AVERAGE										
L.S.D. AT .05		41	0.0	1.9	0.3	0.5	0.0	727	2530	2459
								914	1573	656

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 10. PERFORMANCE OF DOUBLE CROP GRAIN SORGHUM HYBRIDS EVALUATED NEAR LAMAR ON THE WALLY NORTON FARM IN 1984, THE DON CULVER FARM IN 1983, AND THE SOUTHWEST CENTER IN 1982. PLANTED: 3 JULY 1984. HARVESTED: 7 NOVEMBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984										
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	TEST+ WT (LB)	LODGING (%)			YIELD (LB/ACRE)		
						1984	1983	1982	1984	1983	1982
MATURITY GROUP 1											
PAG 3339	9- 6	36	0.0	2.3	57	0.0	--	--	3093*	--	--
DEKALB DK-38	9- 5	39	0.0	2.0	56	0.0	22.2	52.3	3073*	1064*	4778*
STAUFFER SEEDS 535GR	9- 5	35	0.0	2.0	56	0.0	--	--	3071*	--	--
PIONEER HYBRID 8585	9- 7	38	0.0	1.6	54	0.0	--	--	2894	--	--
GROWERS SG 10	9- 5	38	0.0	1.6	55	0.0	--	--	2852	--	--
RICHARDSON 85E#	9- 3	36	0.0	1.3	53	0.0	--	--	2750	--	--
TRIUMPH TWO 54YG	9- 7	32	0.0	2.0	56	0.0	18.2	21.3	2710	711	4721*
PIONEER HYBRID 8680	9- 4	35	0.0	1.3	56	0.0	29.7	16.7	2687	809*	4659*
TAYLOR-EVANS T-E Y-44-R	9- 4	34	0.0	2.0	56	0.0	7.4	39.3	2684	1285*	4556*
PIONEER HYBRID 8790	9- 3	30	0.0	1.3	55	0.0	--	--	2678	--	--
RING AROUND RA 433-A	9- 6	37	0.0	1.0	54	0.0	--	--	2627	--	--
CARGILL 30	9- 3	35	0.0	2.0	54	0.0	--	--	2566	--	--
PAG 4462	9- 9	36	0.0	2.0	52	0.0	--	--	2493	--	--
TAYLOR-EVANS T-E Y-45-G	9- 6	36	0.0	1.6	52	0.0	8.2	34.1	2486	1208*	4772*
TRIUMPH TWO 50YG	9- 6	37	0.0	2.0	54	0.0	13.7	--	2472	1025*	--
NORTHROP KING 1210	9- 3	32	0.0	2.3	54	0.0	8.8	36.0	2421	1041*	4341*
WAC 652G	9- 6	34	0.0	1.3	54	0.0	--	--	2366	--	--
TAYLOR-EVANS T-E DINERO-E	9- 8	38	0.0	2.0	48	0.0	--	--	2258	--	--
PAG 3385	9- 9	32	0.0	1.3	47	0.0	--	--	1649	--	--
MATURITY GROUP 2											
PAYMASTER 1022	9- 6	36	0.0	2.3	55	0.0	43.1	--	3747**	862*	--
GARRISON SG-686	9- 5	39	1.4	1.6	54	0.0	--	--	3171*	--	--
ASGROW NUGGET	9- 8	36	0.0	1.6	56	0.0	--	--	3006*	--	--
FUNKS G-550	9- 7	36	0.0	1.6	51	0.0	--	--	2911	--	--
WARNER W-685 DR	9- 7	42	0.0	1.0	53	0.0	14.9	--	2791	816*	--
GARRISON SG-688	9- 6	40	0.0	2.6	55	0.0	--	--	2671	--	--
PIONEER HYBRID 8515	9- 8	35	0.0	2.0	55	0.0	--	--	2607	--	--
FUNKS G-1400	9- 6	35	0.0	2.6	53	0.0	19.8	--	2558	660	--
WAC 686	9- 7	38	0.8	1.0	52	0.0	--	--	2514	--	--
O'S GOLD GS709	9- 6	37	0.0	1.6	54	0.0	23.6	40.5	2371	1050*	5015*
NORTHROP KING 2244	9- 6	38	0.0	1.0	55	0.0	22.5	--	2328	913*	--
DEKALB DK-42Y##	9- 9	34	0.0	1.6	49	0.0	12.6	--	2171	909*	--
WARNER W-832 DR	9- 8	36	0.0	1.0	52	0.0	14.9	--	2135	1052*	--
PAYMASTER R109-A	9-10	35	0.0	2.3	49	0.0	24.3	--	2088	815*	--
PAYMASTER R1090##	9-11	34	0.0	2.3	49	0.0	12.7	--	2021	1130*	--
PAYMASTER 1091	9- 9	39	0.0	1.3	46	0.0	--	--	1757	--	--
MATURITY GROUP 3											
FUNKS G-522DR##	9- 9	36	0.0	1.3	49	0.0	31.7	--	2387	981*	--
MFA GS-384	9- 8	38	0.0	1.0	50	0.0	--	--	2364	--	--
ASGROW MUSTANG##	9- 8	33	0.0	2.0	47	0.0	--	--	2080	--	--
MFA GS-10##	9- 9	33	0.0	2.3	46	0.0	15.5	--	2072	1145*	--
MFA GS-301A##	9- 8	31	0.0	1.6	47	0.0	11.1	--	2061	1463*	--
ASGROW TOPAZ##	9- 9	34	0.0	2.0	51	0.0	17.7	--	1952	1024*	--
TRIAL AVERAGE											
L.S.D. AT .05		36	0.1	1.7	52	0.0	15.1	38.5	2527	950	4615
									815	689	1022

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

+ TEST WEIGHT WAS DETERMINED ON OVEN-DRIED GRAIN.

TABLE 11. PERFORMANCE OF DOUBLE CROP GRAIN SORGHUM HYBRIDS EVALUATED NEAR PORTAGEVILLE ON THE DELTA RESEARCH CENTER IN 1982-84. PLANTED: 2 JULY 1984. HARVESTED: 26 OCTOBER 1984. PLANTING RATE: 6 SEEDS/FT.

BRAND-HYBRID	1984									
	50% BLOOM DATE	PLANT HEIGHT (IN)	OFF-TYPE HEADS (%)	CMPT-NESS SCORE	LODGING (%)			YIELD (LB/ACRE)		
					1984	1983	1982	1984	1983	1982
MATURITY GROUP 1										
DEKALB DK-38	8-22	54	0.0	3.6	2.8	32.8	0.5	5551*	4005*	2804**
GROWERS SG 10	8-21	52	0.0	2.3	0.3	--	--	5529*	--	--
PAG 3339	8-24	47	0.0	4.0	1.3	--	--	5048*	--	--
WAC 652G	8-24	50	0.0	3.0	0.0	--	--	4887*	--	--
RICHARDSON 85E#	8-21	47	0.0	1.0	0.4	--	--	4878*	--	--
TAYLOR-EVANS T-E Y-45-G	8-22	52	0.0	3.6	0.4	30.3	0.7	4653*	3832*	1653
TAYLOR-EVANS T-E DINERO-E	8-26	44	0.0	1.0	0.0	--	--	4576*	--	--
PAG 3385	8-26	43	0.0	1.0	0.0	--	--	4430*	--	--
PIONEER HYBRID 8680	8-23	45	0.0	1.6	1.1	21.2	0.0	4368*	2790	2315*
CARGILL 30	8-21	47	0.0	4.3	4.9	--	--	4324	--	--
TRIUMPH TWO 50YG	8-24	44	0.0	1.0	0.0	2.0	--	4312	5445*	--
PIONEER HYBRID 8585	8-24	45	0.0	1.6	0.0	--	--	4097	--	--
PIONEER HYBRID 8790	8-20	46	0.3	2.0	0.5	--	--	4060	--	--
RING AROUND RA 433-A	8-22	45	0.0	1.0	0.1	--	--	4019	--	--
PAG 4462	8-24	49	0.0	4.3	0.2	--	--	3960	--	--
TRIUMPH TWO 54YG	8-23	50	0.0	2.0	1.2	1.1	0.0	3839	6225**	1646
TAYLOR-EVANS T-E Y-44-R	8-21	48	0.0	4.3	0.0	30.4	0.0	3721	4969*	2140*
STAUFFER SEEDS 535GR	8-23	53	0.0	2.6	0.7	--	--	3545	--	--
NORTHRUP KING 1210	8-20	41	0.0	5.0	0.0	9.6	0.5	3333	4031*	2074*
MATURITY GROUP 2										
PIONEER HYBRID 8515	8-25	52	0.0	3.0	0.5	--	--	5431*	--	--
FUNKS G-550	8-25	52	0.9	1.3	0.0	--	--	5315*	--	--
PAYMASTER 1091	8-27	52	0.0	2.0	0.0	--	--	5302*	--	--
WAC 686	8-26	48	0.0	1.0	0.0	--	--	5137*	--	--
GARRISON SG-686	8-22	56	0.0	1.0	0.0	--	--	5122*	--	--
PAYMASTER R109-A	8-27	46	0.0	3.6	0.0	3.8	--	5120*	4532*	--
WARNER W-685 DR	8-22	53	0.0	1.0	1.4	21.0	--	5070*	4180*	--
WARNER W-832 DR	8-25	51	0.0	1.0	0.0	2.8	--	4967*	3743*	--
PAYMASTER 1022	8-25	47	0.0	1.6	0.0	10.0	--	4605*	3281	--
PAYMASTER R1090##	8-27	48	0.0	5.0	0.1	19.9	--	4585*	3862*	--
DEKALB DK-42Y##	8-28	48	0.0	4.0	0.0	25.9	--	4572*	4548*	--
FUNKS G-1400	8-22	50	0.0	3.6	0.0	0.3	--	4494*	5052*	--
NORTHRUP KING 2244	8-24	43	0.0	1.6	0.0	7.4	--	3878	5382*	--
O'S GOLD GS709	8-23	52	0.0	4.0	0.0	2.3	1.4	3872	5093*	1458
ASGROW NUGGET	8-24	41	0.0	1.6	0.2	--	--	3838	--	--
GARRISON SG-688	8-23	48	0.0	2.3	0.9	--	--	3557	--	--
MATURITY GROUP 3										
ASGROW TOPAZ##	8-28	53	0.0	1.0	0.0	3.3	--	5843**	3558	--
MFA GS-301A##	8-28	44	0.0	2.0	0.0	17.5	--	5468*	5863*	--
MFA GS-10##	8-27	44	0.0	4.3	0.0	9.3	--	4885*	4317*	--
FUNKS G-522DR##	8-28	50	0.0	1.3	0.0	2.4	--	4778*	3537	--
ASGROW MUSTANG##	8-28	43	0.0	2.3	0.0	--	--	4688*	--	--
MFA GS-384	8-30	52	0.0	1.6	0.6	--	--	4453*	--	--
TRIAL AVERAGE										
TRIAL AVERAGE		48	0.0	2.4	0.4	13.1	0.5	4588	4030	1921
L.S.D. AT .05								1507	2556	944

-- DATA NOT AVAILABLE.

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 12. PERFORMANCE RECORD OF DOUBLE CROP GRAIN SORGHUM HYBRIDS EVALUATED AT THREE MISSOURI LOCATIONS (COLUMBIA, LAMAR, AND PORTAGEVILLE) IN 1984.

BRAND-HYBRID	Y I E L D (LB/ACRE)			MEAN
	COLUMBIA	LAMAR	PORTAGEVILLE	
MATURITY GROUP 1				
DEKALB DK-38	2285*	3073*	5551*	3636**
GROWERS SG 10	504	2852	5529*	2962
PIONEER HYBRID 8585	1879*	2894	4097	2957
RICHARDSON 85E#	857	2750	4878*	2828
PAG 3339	141	3093*	5048*	2761
CARGILL 30	1041	2566	4324	2644
WAC 652G	676	2366	4887*	2643
TAYLOR-EVANS T-E Y-45-G	653	2486	4653*	2597
STAUFFER SEEDS 535GR	1169	3071*	3545	2595
RING AROUND RA 433-A	1117	2627	4019	2588
PIONEER HYBRID 8680	586	2687	4368*	2547
TRIUMPH TWO 54YG	979	2710	3839	2509
PIONEER HYBRID 8790	701	2678	4060	2480
PAG 4462	948	2493	3960	2467
TRIUMPH TWO 50YG	584	2472	4312	2456
TAYLOR-EVANS T-E Y-44-R	941	2684	3721	2449
TAYLOR-EVANS T-E DINERO-E	199	2258	4576*	2344
NORTHRUP KING 1210	1094	2421	3335	2283
PAG 3385	323	1649	4430*	2134
MATURITY GROUP 2				
PAYMASTER 1022	2386**	3747**	4605*	3579*
PIONEER HYBRID 8515	1351	2607	5431*	3130*
FUNKS G-1400	1703*	2558	4494*	2918
GARRISON SG-686	327	3171*	5122*	2873
FUNKS G-550	334	2911	5315*	2853
WARNER W-685 DR	559	2791	5070*	2807
WAC 686	556	2514	5137*	2736
DEKALB DK-42Y##	1404	2171	4572*	2716
ASGROW NUGGET	932	3006*	3838	2592
PAYMASTER R1090##	650	2021	4585*	2419
WARNER W-832 DR	129	2135	4967*	2410
PAYMASTER R109-A	0	2088	5120*	2403
PAYMASTER 1091	0	1757	5302*	2353
O'S GOLD GS709	645	2371	3872	2296
NORTHRUP KING 2244	596	2328	3878	2267
GARRISON SG-688	435	2671	3557	2221
MATURITY GROUP 3				
ASGROW TOPAZ##	794	1952	5843**	2863
MFA GS-301A##	0	2061	5468*	2510
FUNKS G-522DR##	161	2387	4778*	2442
MFA GS-10##	0	2072	4885*	2319
ASGROW MUSTANG##	163	2080	4688*	2310
MFA GS-384	0	2364	4453*	2272
TRIAL AVERAGE				
	727	2527	4588	2614
L.S.D. AT .05				
	914	815	1507	589

** HIGHEST YIELDING HYBRID IN THE TEST.

* HYBRID WHICH DID NOT YIELD SIGNIFICANTLY LESS THAN THE HIGHEST YIELDING HYBRID IN THE TEST.

WIDELY-GROW HYBRID.

BIRD RESISTANT.

TABLE 13. CHARACTERISTICS OF GRAIN SORGHUM HYBRIDS.*

DESIGNATION	BIRD RESIS- TANT	MAT- URITY GROUP	COLOR		ENDO- SPERM TYPE	BIOTYPE E GR. BUG RESPONSE
			SEED COAT	ENDO- SPERM		
ASGROW TOPAZ	NO	3	R	HY	N	S
ASGROW MUSTANG	NO	3	R	HY	N	S
ASGROW CHAPARRAL	NO	3	R	HY	N	S
ASGROW COLT	NO	4	R	HY	N	S
ASGROW NUGGET	NO	2	R	HY	N	S
CARGILL 40	NO	1	Y	HY	HW	S
CARGILL 55	NO	2	Y	HY	HW	S
CARGILL 70	NO	2	Y	HY	HW	S
CARGILL 80	NO	3	Y	HY	HW	S
CARGILL 30	NO	1	Y	HY	HW	S
CARGILL X31095	NO	3	R	HY	N	S
CARGILL X21062	NO	4	R	HY	N	S
CARGILL X31036	NO	2	R	HY	N	S
COKER 7675	NO	3	R	HY	N	S
CONLEE TOP HAND II	NO	2	Y	HY	N	S
CONLEE WRANGLER	NO	2	Y	HY	N	S
DEKALB DK-42Y	NO	2	Y	Y	N	T
DEKALB DK-59E	NO	3	R	HY	N	R
DEKALB DK-46	NO	2	R	HY	N	R
DEKALB DK-38	NO	1	R	HY	N	S
FONTANELLE 6651	NO	3	-	HY	-	T
FONTANELLE 5583	NO	2	-	HY	-	T
FUNKS G-522DR	NO	3	R	HY	-	S
FUNKS G-1711	NO	4	R	HY	-	S
FUNKS G-522A	NO	3	R	HY	-	S
FUNKS G-550	NO	2	W	HY	-	S
FUNKS HW-2308	NO	3	R	HY	-	S
FUNKS G-1400	NO	2	R	HY	-	S
GARRISON SG-932	NO	3	R	HY	N	S
GARRISON SG-922	NO	3	R	HY	N	S
GARRISON SG-Y85DR	NO	3	R	HY	N	S
GARRISON SG-688	NO	2	R	HY	N	S
GARRISON SG-686	NO	2	R	HY	N	S
GARST 5511	NO	3	R	HY	N	-
GARST 5319	NO	4	R	HY	N	-
GARST 5521	NO	3	R	HY	N	-
GOLDEN HARVEST H-510B	NO	2	BZ	Y	N	S
GOLDEN HARVEST H-545B	NO	2	BZ	Y	N	S
GOLDEN HARVEST H-505BW	NO	2	W	W	N	S
GOLD KIST GK 802 G	NO	3	R	HY	N	S
GOLD KIST GK 712 G	NO	2	R	HY	N	R
GREEN SEED G820	NO	2	R	Y	N	S
GROWERS GSA 1310A	NO	3	R	HY	-	S
GROWERS GSC 1295	NO	3	R	HY	-	S
GROWERS SG 10	NO	1	R	HY	-	S
HYPERFORMER 1225DR	NO	1	R	HY	-	S
HYPERFORMER 1330DR	NO	2	R	HY	-	S
JACQUES 606	NO	3	BZ	HY	N	S
JACQUES 505	NO	2	BZ	HY	N	S
JACQUES 408	NO	2	BZ	HY	N	S

TABLE 13. CONTINUED

DESIGNATION	BIRD RESIS- TANT	MAT- URITY GROUP	COLOR		ENDO- SPERM TYPE	BIOTYPE E GR. BUG RESPONSE
			SEED COAT	ENDO- SPERM		
KSC 865	NO	2	R	Y	N	S
KSC 870	NO	2	R	Y	N	S
KSC 872	NO	3	R	Y	N	S
LYNK 595	YES	-	R	Y	N	T
MCCURDY M737	NO	2	Y	HY	N	S
MCCURDY M747	NO	2	Y	HY	N	S
MFA GS-10	NO	3	R	HY	N	S
MFA GS-301A	NO	3	R	HY	N	R
MFA GS-384	NO	3	R	HY	N	S
MFA GS-103	NO	1	R	HY	N	S
NC+ 174	NO	3	BZ	Y	N	S
NC+ 271	NO	2	W	Y	N	T
NC+ 172	NO	2	BZ	Y	N	S
NK 2244	NO	2	R	HY	N	S
NK 2778	NO	3	R	Y	N	S
NK 2665	NO	3	R	Y	N	S
NK 1210	NO	1	R	Y	N	S
ORO G XTRA	NO	3	R	HY	N	S
O' S GOLD GS5100	NO	3	BZ	HY	N	S
O' S GOLD GS712	NO	4	BZ	HY	N	S
O' S GOLD GS709	NO	2	BZ	HY	N	S
PAG 5665	NO	2	Y	HY	-	S
PAG 6658	NO	2	Y	HY	-	S
PAG 662	NO	2	Y	HY	-	S
PAG X9408	NO	3	Y	HY	-	S
PAG 4462	NO	1	Y	HY	-	S
PAG 3385	NO	1	Y	HY	-	S
PAG 3339	NO	1	Y	HY	-	S
PAYMASTER R1090	NO	2	R	HY	N	S
PAYMASTER R109-A	NO	2	R	HY	N	S
PAYMASTER 1022	NO	2	R	HY	N	S
PAYMASTER 1091	NO	2	R	HY	N	S
PAYMASTER 1099	NO	3	R	HY	N	S
PAYMASTER DR1125	NO	3	R	HY	N	S
PAYNE SEED PGS-484	NO	3	R	HY	N	S
PAYNE SEED PGS-384	NO	2	R	HY	N	S
PIONEER 8585	NO	1	R	W	N	S
PIONEER 8790	NO	1	R	W	N	S
PIONEER 8222	NO	3	R	HY	N	S
PIONEER 8300	NO	3	R	HY	N	S
PIONEER 8515	NO	2	R	HY	N	S
PIONEER 8333	NO	3	R	HY	N	S
PIONEER 8680	NO	1	R	W	N	S
PRIZE EXP.206	NO	2	-	Y	N	R
PRIZE EXP.205	NO	2	-	Y	N	R
RICHARDSON Y-322A	NO	3	R	HY	HW	T
RICHARDSON 85E	YES	1	R	W	HW	T
RING AROUND RA 808	NO	3	R	HY	N	S
RING AROUND RA 787	NO	3	R	HY	N	S
RING AROUND RA 433-A	NO	1	R	HY	N	S

TABLE 13. CONTINUED

DESIGNATION	BIRD RESIS- TANT	MAT- URITY GROUP	COLOR		ENDO- SPERM TYPE	BIOTYPE E GR. BUG RESPONSE
			SEED COAT	ENDO- SPERM		
STAUFFER SEEDS 9750	NO	3	R	HY	N	S
STAUFFER SEEDS 734	NO	3	R	HY	N	S
STAUFFER SEEDS 530	NO	1	R	HY	N	S
STAUFFER SEEDS 535	NO	1	R	HY	N	S
T-E DINERO	NO	3	R	HY	N	T
T-E Y-77	NO	3	R	HY	N	T
T-E Y-45-G	NO	1	R	HY	N	T
T-E Y-44-R	NO	1	R	HY	N	T
T-E DINERO-E	NO	1	R	HY	N	T
TERRA HT45G	NO	1	Y	HY	N	S
TERRA HTL26DR	NO	3	Y	HY	N	S
TRIUMPH TWO 80-D	NO	2	R	HY	N	S
TRIUMPH TWO 70-D	NO	2	R	HY	N	S
TRIUMPH TWO 64YG	NO	2	R	HY	N	S
TRIUMPH TWO 54YG	NO	1	R	HY	N	S
TRIUMPH TWO 50YG	NO	1	R	HY	N	S
WAC 686	NO	2	R	HY	N	R
WAC D701G	NO	3	R	HY	N	S
WAC 710DR	NO	3	R	HY	N	S
WAC 715DR	NO	4	R	HY	N	S
WAC 652G	NO	1	R	HY	N	S
WARNER W-851DR	NO	3	R	HY	N	S
WARNER W-839DR	NO	2	R	HY	N	T
WARNER W-685DR	NO	2	R	HY	N	S
WARNER W-744DR	YES	3	R	HY	N	S
WARNER W-746DR	YES	3	R	W	N	S
WARNER W-832DR	NO	2	R	HY	N	S

* THE ABOVE INFORMATION FOR COMMERCIAL HYBRIDS WAS TAKEN FROM ENTRY FORMS PROVIDED BY THE COMPANY.

- DATA NOT AVAILABLE.

COLOR CODES
HY - HETEROYELLOW
W - WHITE
Y - YELLOW
R - RED
BZ - BRONZE

ENDOSPERM TYPE CODE
HW - HETEROWAXY
N - NON-WAXY
W - WAXY

DISEASE REACTION CODE
S - SUSCEPTIBLE
T - TOLERANT
R - RESISTANT

TABLE 14. CONTINUED

BRAND	HYBRID/VARIETY	SEED SOURCE
ASGROW	TOPAZ, MUSTANG, COLT, NOGGET, CHAPARRAL	ASGROW SEED COMPANY, 7000 FORTAGE ROAD, KALAMAZOO, MI 49001
CARGILL	30, 40, 55, 70, 80, X31095, X21062, X31036	CARGILL SEEDS, BOX 5645, MINNEAPOLIS, MN 55440
COKER	7675	COKER'S PEDIGREED SEED COMPANY, BOX 340, 900 DARLINGTON HWY., HARTSVILLE, SC 29550
CONLEE	WRANGLER, TOP HAND II	CONLEE SEED COMPANY, INC., BOX 7247, WACO, TX 76714-7247
DEKALB	DK-59E, DK-46, DK-42Y, DK-38	DEKALB-PFIZER GENETICS, RT. 2, LUBBOCK, TX 79415
FONTANELLE	5583, 6651	FONTANELLE HYBRIDS, RT. 1, NICKERSON, NE 68044
FUNKS	G-522DR, G-522A, G-1400, HW-2308, G-1711, G-550	FUNK SEEDS INTERNATIONAL, 719 26TH ST., LUBBOCK, TX 79404
GARRISON	SG-686, SG-688, SG-Y85DR, SG-922, SG-932	GARRISON SEED & COMPANY, INC., BOX 927, HEREFORD, TX 79045
GARST	5319, 5511, 5521	GARST SEED COMPANY, BOX 300, COON RAPIDS, IA 50058
GOLDEN HARVEST	H-510B, H-505BW, H-545B	COLUMBIANA SEED COMPANY, ELDRED, IL 62027
GOLD KIST	GK 712 G, GK 802 G	AGRATECH SEEDS, INC., BOX 644, ASHBURN, GA 31714
GREEN SEED	G820	GREEN SEED COMPANY, BOX 943, GALLATIN, TN 37066
GROWERS	GSC 1295, GSA 1310A, SG 10	GROAGRI SEED COMPANY, BOX 1656, LUBBOCK, TX 79408
HYPERFORMER	1225DR, 1330DR	HYPERFORMER SEED COMPANY, 5100 FOPLAR, SUITE 3200, MEMPHIS, TN 38137
JACQUES	408, 505, 606	JACQUES SEED COMPANY, 720 ST. CROIX STREET, PESCOTT, WI 54021
KCS	865, 870, 872	KITCHEN SEED COMPANY, INC., HWY 36 WEST, HANNIBAL, MO 63401
LYNK	595	LYNK PRODUCTS, RT. 1, BOX 362, EAST PRAIRIE, MO 63845
MC CURDY	M737, M747	MC CURDY SEED COMPANY, BOX 66, FREMONT, IA 52561
MFA	GS-10, GS-301A, GS-384, GS-103	RING AROUND PRODUCTS, 12200 FORD RD., SUITE 410, DALLAS, TX 75234
NC+	172, 174, 271	NC+ HYBRIDS, 3820 N. 56TH ST., BOX 4408, LINCOLN, NE 68504
NORTHRUP KING	1210, 2244, 2665, 2778	NORTHRUP KING COMPANY, BOX 251, SIDNEY, IL 61877
ORO	G XTRA	R. C. YOUNG SEED & GRAIN COMPANY, 624 27TH ST., LUBBOCK, TX 79404
O'S GOLD	GS5100, GS709, GS712	O'S GOLD SEED COMPANY, BOX 460, PARKERSBURG, IA 50665
PAG	3339, 3385, 4462, 5665, 6658, 662, X9408	PAG SEEDS, BOX 9480, MINNEAPOLIS, MN 55440

TABLE 14. CONTINUED

BRAND	HYBRID/VARIETY	SEED SOURCE
PAYMASTER	1022, 1091, 1099, DR1125, R1090, R109-A	PAYMASTER SEEDS, BOX 9493, MINNEAPOLIS, MN 55440
PAYNE SEED	FGS-384, FGS-484	PAYNE SEED COMPANY, 16445 ADDISON RD., SUITE 2, DALLAS, TX 75248
PIONEER	8222, 8300, 8333, 8515, 8585, 8680, 8790	PIONEER HI-BRED INT., INC., EASTERN DIVISION, 1000 W. JEFFERSON ST., TIPTON, IN 46072
PRIZE	205, 206	HARTZLER SEED CO., RT 1, BOX 458, HARRISONVILLE, MO 64701
RA	787, 808, 433-A	RING AROUND PRODUCTS, 12200 FORD RD., SUITE 410, DALLAS, TX 75234
RICHARDSON	Y-322A, 85E	RICHARDSON SEEDS, INC., DRAWER B, VEGA, TX 79092
STAUFFER SEEDS	530, 535, 734, 9750	STAUFFER SEEDS, INC., 975 DURKIN DRIVE, SPRINGFIELD, IL 62704
T-E	DINERO, Y-77, Y-44-R, DINERO-E, Y-45-G	TAYLOR-EVANS SEED COMPANY, BOX 68, TULIA, TX 79088
TERRA	HT45G, HT126DR	TERRA SEED COMPANY, BOX 10121, LUBBOCK, TX 79408
TRIUMPH	TWO 50YG, TWO 54YG, TWO 64YG, TWO 70-D, TWO 80-D	TRIUMPH SEED COMPANY, BOX 1050, RALLS, TX 79357
WAC	652G, 686, D701G, 710DR, 751DR	SEEDTEC INTERNATIONAL, INC., BOX 2212, HEREFORD, TX 79045
WARNER	W-685DR, W-744DR, W-746DR, W-832DR, W-839DR, W-851DR	GEORGE WARNER SEED COMPANY, INC., BOX 1448, HEREFORD, TX 79045
MARTIN	UMC, FOUNDATION SEED, COLUMBIA, MD 65211	