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1992 Grain Sorghum Performance Tests in Texas

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GRAIN SORGHUM PERFORMANCE TESTS IN TEXAS--1992

by

Dennis Pietsch
Research Associate
Texas Agricultural Experiment Station
Texas A&M University

Randy Gaas
Technician I
Texas Agricultural Experiment Station
Texas A&M University

Darrell T. Rosenow
Professor
Texas Agricultural Experiment Station
Lubbock

Fred Miller
Professor
Texas Agricultural Experiment Station
Texas A&M University

Gary C. Peterson
Assistant Professor
Texas Agricultural Experiment Station
Lubbock

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Keywords: Texas/grain sorghum/ performance tests/ yield/ disease/ insect resistance.	

GRAIN SORGHUM PERFORMANCE TESTS IN TEXAS--1992

D. R. Pietsch, Randy Gaas, D. T. Rosenow, F. R. Miller, and G. C. Peterson

INTRODUCTION

Grain sorghum continues to be a major commodity in Texas. From year to year, acreage in Texas has fluctuated based on rainfall patterns, climatic conditions, participation in various government supported programs, and price differential between commodities. This year 4.7 million acres were harvested by Texas farmers. This acreage represents a 62.1% increase over 1991 when 2.9 million acres were harvested. The Northern and Southern High Plains accounted for 52.1% of the State acreage as represented by Texas Crop Reporting Districts 1-N, 1-S, 2-N and 2-S as shown in Figure 1. The increase of acreage in these Reporting Districts can be attributed to planting grain sorghum on cotton acreage that was lost due to prolonged periods of heavy rainfall, flooding, and/or hail damage. District 1-S (Southern High Plains) had the largest increase of acreage from 165,000 acres in 1991 to 1.32 million acres in 1992 or a 700% increase. This District also accounted for 28.1% of the State's total acreage in 1992.

This year due to the increase of acreage, it is estimated that Texas farmers will produce 157.92 million cwt. of grain sorghum which is the most since 1982. With the increase in acreage, the State mean yield is estimated to decrease from 3,416 lb/A in 1991 to 3,360 lb/A in 1992. Due to the efforts of grain sorghum breeders, farmers now have an opportunity to plant white or cream sorghums in addition to the traditional red or bronze colored sorghums without sacrificing yields. In addition to the white or cream colored seed, sorghums that have straw colored glumes, tan plant color, and superior weathering ability will definitely have a marketing advantage. Farmers may have the opportunity to use different marketing strategies to enhance cash flow. Continued emphasis and efforts will be employed in using sorghum for food and animal feed both domestically and internationally. The white or light cream colored sorghums have dual advantages in animal feeds and human foods. These sorghums produce formulated feeds with significantly lighter color and overall improved appearance, which will benefit the U.S. feeder. In addition, the light colored sorghums will enhance export competitiveness of U.S. sorghum in world markets. The potential for using sorghum for food in the U.S. has never been realized, in part because we have never produced consistently sufficient quantities of high quality sorghum for the industry to use. The advantages of white grain types with tan plant color can be achieved with appropriate hybrids for feed and food quality that have the necessary agronomics, yield potential, and adaptation to Texas environmental conditions.

GRAIN SORGHUM PERFORMANCE TESTING IN TEXAS

This report presents the results of five irrigated and five non-irrigated grain sorghum performance tests. Approximate locations of test sites are shown in Figure 2 and represent the major grain sorghum production areas in Texas.

In addition, results of supplementary grain sorghum tests conducted at Runnels County, Halfway, Texas, and Lamesa, Texas are reported. The Runnels County test was conducted by the Winters, Texas Young Farmers Organization. The Halfway test was conducted separately from the State corn and grain sorghum performance tests. It was conducted as part of the sorghum and corn variety testing program at the Texas Agricultural Experiment Station (TAES) at Halfway in cooperation with the High Plains Research Foundation. The Lamesa Test was conducted by personnel of the Texas Agricultural Experiment Station, Lubbock, Texas. Results from these tests will be useful in determining the adaptability of grain sorghum in this area.

Grain sorghum seed producers and TAES plant breeders enter sorghum hybrids in the State testing program at several locations for evaluation under different and changing environmental conditions. Entry of a hybrid at a given location does not imply that it is recommended for that area. Data contained herein are a measure of performance of grain sorghum hybrids planted during a particular season at the location shown.

Selection of a grain sorghum hybrid is a basic management decision. Yield is the predominant criterion of a hybrid, but other agronomic information as provided in this report should be evaluated before a final decision is made.

ENTRIES

Official entry forms are mailed in December to everyone known to be interested in the grain sorghum testing program. Forms include the necessary information to make entries in any or all of the locations to be planted. No restrictions are placed on the number of hybrids a company may enter. Experimental materials are also accepted. All hybrids are entered on a fee basis under their brand name or number designation (Table 1). In addition, standard check hybrids are entered by TAES. After the test plantings are established, each participant receives a location sketch and planting plan for observation of the block during the growing season. After the data has been statistically analyzed, results from each individual test site are made available to participating companies, farmers, county extension agents, test cooperators, and anyone else who requests the information in a timely manner. A detailed publication combining all test results is produced at a later date.

FIELD-PLOT TECHNIQUE

Excessive amounts of seed were packaged and planted at all locations by one of the following methods:

1. Hand dropped through planter at Hondo, Danevang, Thrall, McKinney, and Dumas.
2. Cone planter at Weslaco, Gregory, College Station, and Lubbock.

After emergence, seedlings in each plot were hand thinned to a uniform spacing for a plant population recommended in the area.

Cultural practices were those adapted for general use in the area as determined by the cooperator. Field data were recorded at the appropriate time and other data collected at harvest. All locations, except the Lubbock Dryland Test were harvested with a MF8 combine modified for plot harvesting. Plot weight, bushel weight, and moisture were calculated with electronic equipment mounted on the combine. The Lubbock test was hand harvested and threshed by running samples through a plot combine.

DATA

The following data are reported and may or may not be quoted in this report for each respective location:

Grain color--designated by a respective seed company for that particular hybrid. R=red, Br=brown, Bz=bronze, Rt=red translucent, W=white, Wt=white translucent, Ct=cream translucent, Y=yellow.

Plant color--designated by a respective seed company for that particular hybrid. T=tan, R=red, P=purple.

Maturity class--maturity designated by a respective seed company for that particular hybrid. Early (E), medium-early (ME), medium (M), medium-late (ML), and late (L) designations are used.

Days to 50 percent flower--number of days from planting to, and including the day that an estimated 50 percent of the plants have reached anthesis.

Plant height--average inches from the ground to the tip of the panicle.

Panicle exertion--average inches from the flag leaf to the base of the panicle.

Panicle length--number of inches from base of panicle to tip of panicle.

Test weight--pounds per bushel of grain determined from all replications.

Bird damage--visual rating or percentage, not used in yield calculations.

Lodging--visual rating or percentage, not used in yield calculations.

Midge damage--percentage estimated but not used in yield calculations.

Leaf and Plant Death Rating --visual estimate at harvest : 1= no leaf and plant death 5 = leaves and stem completely dead

Desirability Rating--1=very good, 2=good, 3=average, 4=poor, 5=very poor

Check hybrids--those hybrids that are commonly used in a respective area that were not entered by a commercial company. They were included in the test on the basis of a survey taken by area county agents, farmers, and seed dealers.

Yield--determined as follows: plot weight x acre conversion factor x moisture correction factor. All yields are corrected to 13 percent moisture.

Statistical significance--shown for the yield of hybrids within each maturity group. Yields followed by the same letter are not significantly different at the 0.05 alpha level based on Duncan's multiple range test.

LSD--Least Significant Difference. A statistical tool measuring the difference between two entries. When two entries are compared and the difference between them is greater than the LSD, then the entries are judged to be significantly different.

CV--Coefficient of Variation. A statistical tool used to estimate the degree of confidence one may have in published data from replicated tests. C.V.'s below 15% generally indicate reliable, uniform data whereas C.V.'s over 15% are common and may lack precision, but the data may be useful for comparison.

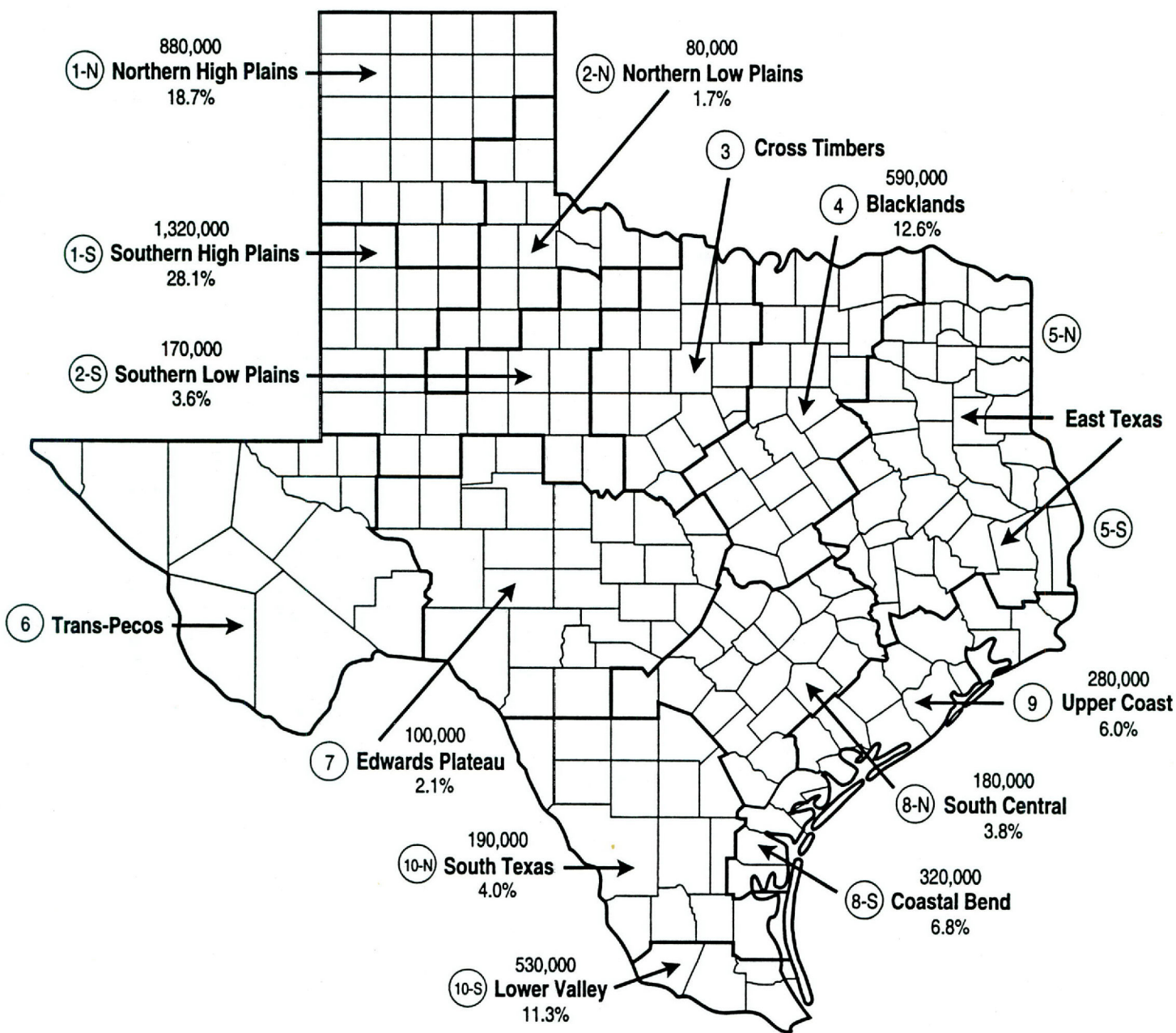
RESULTS

1992 was a very good year for conducting performance tests. The season started out with abundant moisture from record rainfall received during the fall and winter months. Planting was delayed at several locations due to wet soil conditions but overall, optimum planting dates were secured. The Thrall test was re-planted due to very poor stands attained after emergence. Very good yields were attained after the test was re-planted but the incidence of lodging was high in some hybrids due to charcoal rot. Outstanding yields were secured at McKinney, Lubbock Irrigated, and Dumas. General comments follow each test site and gives a brief summary of conditions during the growing season.

Results for each of the performance test locations are presented as follows:

1. Tables 2-11 summarize agronomic and test data information.
2. Tables 2A-11A present all performance test data obtained for hybrids entered at the respective locations. Some of these hybrids are in the experimental stage and seeds are not yet available in quantities for farm planting.
3. Tables 2B-11B are summaries of hybrids showing test yields and test ranks at respective locations for given time periods. The summaries are helpful in selection of hybrids for a particular area. Those hybrids not entered for a respective year are designated (--). Hybrids with same yields were ranked by computer.
4. Tables S1-S2 gives agronomic and test results from supplementary grain sorghum tests conducted by the Runnels County Young Farmers Organization of Winters, Texas.
5. Tables S3-S4 gives results of a supplementary grain sorghum variety test conducted at Halfway, Texas, in cooperation with the High Plains Research Foundation.
6. Tables S5-S6 gives results of a supplementary grain sorghum test conducted at Lamesa, Texas.

Figure 1. Acres and Percentage of Grain Sorghum Acreage Harvested by Texas Crop Reporting Districts, 1992 (1).



- NOTES:
- A. The figure below each crop reporting district is that district's percentage of the total harvested sorghum in Texas.
 - B. The circled figure is the number of each district.
 - C. The figure above the district name is the total harvested acres for that district.
 - D. The districts with no acreage presented are not considered major sorghum production areas. Grouped together, these districts account for 60,000 acres, or 1.3 percent of state acreage (1).

Figure 2. 1992 Grain Sorghum Performance Test Locations in Texas.

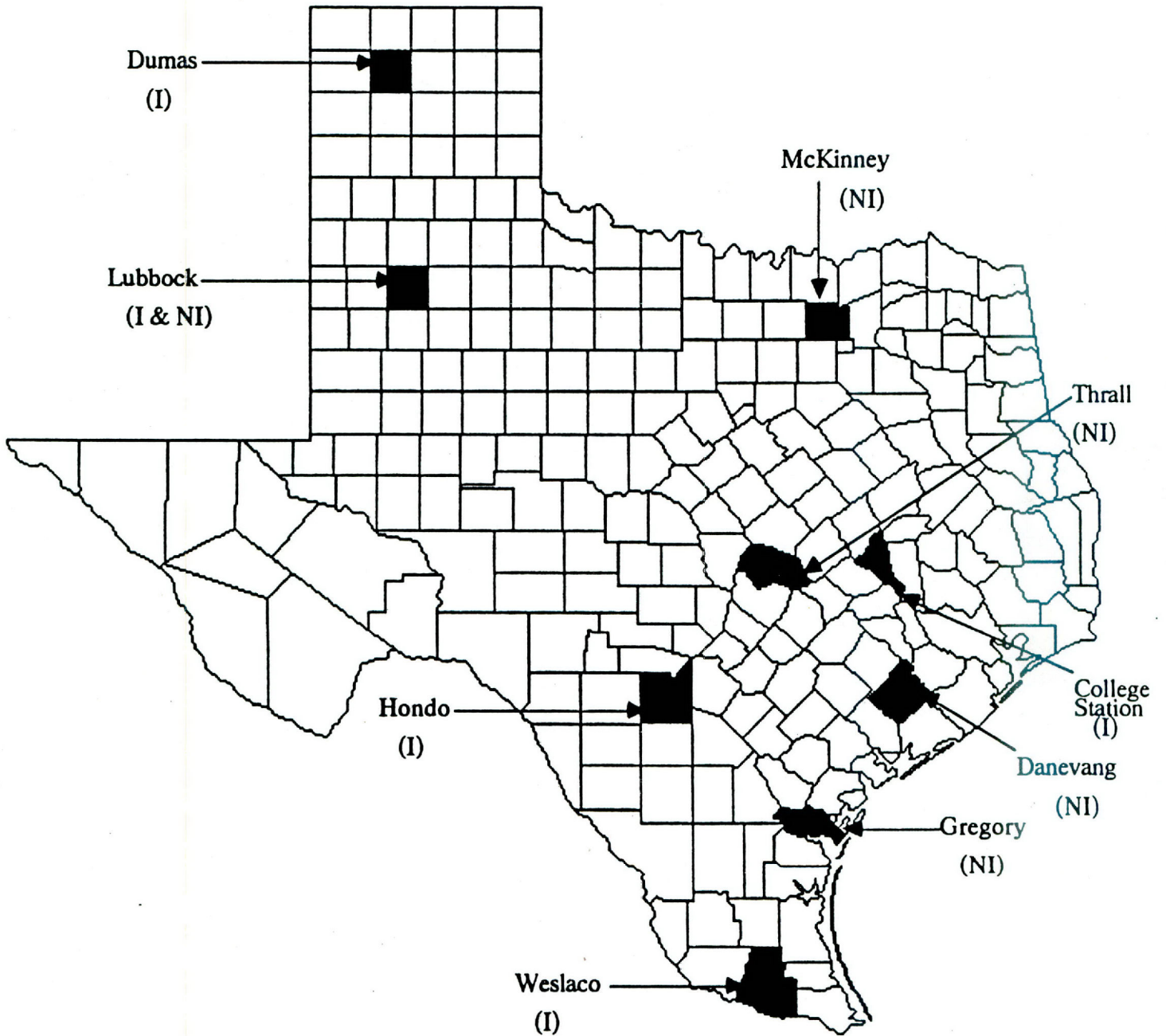


Table 1. Name, address and hybrid designation for participants in the 1992 Texas Grain Sorghum Performance Test

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
ASGROW SEED CO. P. O. Box 7570 Des Moines, IA 50322	A603	X	X	X	-	X	-	-	-	-	-
	Chaparral	-	-	-	-	-	X	-	-	-	-
Cargill Hybrid Seeds P.O. Box 5645 Minneapolis, MN 55440	837	X	X	X	X	X	X	X	X	X	X
	857 (X17055)	-	X	X	X	X	X	-	X	X	X
	X10216	-	X	X	-	-	X	X	-	X	-
	607E	-	-	-	-	-	-	-	-	X	-
	630	-	-	-	-	-	-	X	-	-	-
	618Y	-	-	-	-	-	-	X	-	-	-
	X37029 797	-	-	-	-	-	-	-	X	-	X
-	-	-	-	-	-	-	-	-	X	X	-
Conlee Seed Co., Inc. P.O. Box 23219 Waco, TX 76702-3219	Rustler	X	X	-	X	-	X	X	-	-	X
	Top Hand II	X	-	-	-	-	-	-	-	-	X
Crosbyton Seed Co., Inc. P.O. Box 429 Crosbyton, Tx 79322	GW2789X	X	-	X	-	-	-	-	-	-	-
	GW2780X	X	-	-	-	-	-	-	-	-	-
	GW6062X	X	-	X	-	X	-	-	-	-	-
	GW4850X	-	-	X	-	X	-	X	-	-	-
	GW5924	-	-	-	-	-	-	X	-	-	-
	GW5960	-	-	-	-	-	-	X	-	-	-
	GW7031	-	-	-	-	-	-	X	-	-	-
DEKALB PLANT GENETICS Rt. 2, Box 56 Lubbock, TX 79415	DEKALB DK-50	X	-	-	-	-	-	-	-	-	-
	DEKALB DK-37	X	X	-	X	X	X	X	-	-	-
	DEKALB DK-56	X	X	X	X	X	X	X	X	-	X
	DEKALB D-62 (X-061)	X	-	-	-	-	-	-	-	-	-
	DEKALB DK-40y	-	-	-	-	-	X	X	-	X	-
	DEKALB DK-66	-	-	-	-	-	-	-	X	-	X
	DEKALB D-57 DEKALB X-156	X -	- -	- -	- -	- -	- -	- -	- -	X -	- -

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
DEKALB Plant Genetics (continued)	DEKALB DK-38y	-	-	-	-	-	-	-	-	X	-
	DEKALB X-292	-	-	-	-	-	-	-	-	-	X
DELTA AND PINE LAND CO. 1301 E. 50th St. Lubbock, TX 79404	1558	X	X	X	X	-	X	-	-	-	-
	1552	X	X	X	X	X	X	X	-	-	-
	1710	X	X	-	X	X	-	-	-	-	-
	1506	-	-	X	-	X	X	X	X	X	X
	G-1616	X	-	-	-	-	-	-	X	-	X
	G-1482	-	-	-	-	-	-	X	-	X	-
DOUGLASS W. KING CO. P.O. Box 200320 San Antonio, TX 78220	dk780	-	X	X	X	-	X	-	-	-	-
	dk785E	-	-	X	X	-	X	-	X	-	-
	dk790E	-	-	X	X	-	X	-	X	-	-
	dk750X	-	-	-	-	-	-	-	-	X	-
Frontier Hybrids Inc. P.O. Box 177 Abernathy, TX 79311	F-524	X	X	X	X	X	X	X	X	-	X
	F-270G	-	-	-	-	-	-	-	-	X	-
	F-333Y	-	-	-	-	-	-	-	X	-	X
Garrison Seed Company Drawer 2420 Hereford, TX 79045	S.G.-942	-	-	-	-	-	-	X	X	-	X
	S.G.-925	-	-	-	-	-	-	-	X	-	X
	S.G.-858	-	-	-	-	-	-	X	-	X	-
	S.G.-821	-	-	-	-	-	-	-	-	-	X
	S.G.-833	-	-	-	-	-	-	X	-	X	-
	S.G.-822	-	-	-	-	-	-	X	X	X	X
	S.G.-651	-	-	-	-	-	-	X	-	X	-
George Warner Seed Co., Inc. P.O. Box 1448 Hereford, TX 79045	W-917-E	X	-	-	X	-	-	-	-	-	X
	W-876 DR	X	-	-	X	-	-	-	-	-	-
	W-902-W	X	-	X	-	-	-	-	-	-	X
	W-625-Y	-	-	-	-	-	-	X	-	-	-
	W-816-E	X	-	-	X	-	-	X	-	-	X
	W-818-E	-	-	-	-	-	-	X	-	-	-

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub [®] I [®]	Lub [®] D [®]	Dumas
George Warner Seed Co., Inc. (continued)	W-632-W	-	-	-	-	-	-	-	-	-	X
	W-528-W	-	-	-	-	-	-	-	-	X	-
Gro Agri Seed Co. P.O. Box 1656 Lubbock, TX 79408	GSC 3146	X	-	-	-	-	-	-	-	-	-
	GSC 3150	-	-	-	-	-	X	X	X	-	-
	GSC 1313	-	X	-	-	-	-	-	-	-	X
	GSC 3157	-	X	-	X	-	-	-	-	-	-
	GSC 1214E	-	-	-	-	-	-	-	-	X	-
	GSC 1290E	X	-	-	X	-	X	-	-	-	-
	GSC 3285X	-	-	-	X	-	-	-	-	-	X
	GSC 3186 (Exp 3186X)	-	-	-	-	-	-	-	-	-	-
	GSC 3260 (3260X)	-	-	-	X	-	X	-	-	-	-
	GSC 3280X	-	-	-	-	-	-	-	X	-	-
	GSC 1299	-	X	-	X	-	-	-	-	-	-
	GSC 3159	-	-	-	-	-	X	X	X	X	-
	GSC 3624 (3624X)	-	-	-	-	-	-	-	X	-	X
	GSC 1310AE	-	-	-	-	-	-	X	-	-	X
	GSC 3605	-	-	-	X	-	-	-	X	-	X
GSC 3622 (3622X)	-	-	-	-	-	-	-	-	X	-	
Harvest Master Seed Co. Box 56 Knippa, Tx 78870	HM 2280	-	X	X	-	-	-	-	-	-	-
	HM 2250	-	X	X	-	-	-	-	-	-	-
	HM 2000	-	X	X	-	-	-	-	-	-	-
HyPerformer Seed Co. 6075 Poplar Suite 500 Memphis, TN 38119	HSC Wings	X	X	X	X	-	X	-	-	-	-
	HSC Cherokee	X	X	X	X	-	X	X	X	X	-
	Honcho	-	-	-	-	-	-	-	-	X	-
	HSC 91HSC-17	X	X	X	X	-	X	-	-	-	-
	HSC 92HSC-01	-	X	-	X	-	-	X	-	-	-
	HSC 91HSC-20	-	-	-	-	-	-	X	-	-	-
	92HS102	-	-	-	-	-	-	-	X	-	-
HSC 89-3	-	-	-	-	-	-	-	X	X	-	

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
ICI Seeds (Garst Seed Co.) 6945 Vista Drive West Des Moines, IA 50266	ICI/Garst 5392	X	X	-	X	-	-	-	X	-	X
	ICI/Garst 5319	X	X	X	-	-	X	X	-	-	-
	ICI Seeds 5323	X	X	X	X	-	X	X	-	-	-
	ICI Seeds 5616	-	X	-	-	-	-	-	-	-	-
	ICI/Garst 5522Y	-	-	-	-	-	-	-	-	X	-
Jacques Seed Company 720 St. Croix Prescott, WI 54021	Jacques 444E	-	-	-	-	-	-	-	X	X	X
	Jacques 466-W	-	-	-	-	-	-	-	X	X	-
	Jacques 611E	-	-	-	-	-	-	-	X	-	X
	Jacques 375-W	-	-	-	-	-	-	-	-	X	-
Kelly Green Seeds, Inc. P.O. Box 916 Farwell, Tx 79325	KG-6614	X	-	-	-	-	-	-	-	-	-
	KG-6714	X	-	-	-	-	-	-	-	-	-
	KG-6814	X	-	-	-	-	-	-	-	-	-
	KG-6922	X	-	-	-	-	-	-	-	-	-
NC + Hybrids 3820 N. 56th P.O. Box 4408 Lincoln, NE 68504	NC+ 472	X	X	-	X	X	X	X	-	-	X
	NC+ 7B90	X	X	-	X	-	X	X	-	-	-
	NC+ 7B81E	X	X	-	-	-	-	-	-	-	X
	NC+ 573E	-	-	-	-	X	-	X	-	-	X
Northrup King Company 6139 37th St. Lubbock, TX 79407	2665	X	X	X	X	X	X	-	X	-	X
	KS 737	-	X	X	X	X	X	X	-	-	-
	KS 714Y	-	-	X	-	X	-	-	-	X	-
	KS 936	X	-	-	-	-	-	-	X	-	X
	KS 383Y	-	-	-	-	-	X	X	-	X	-
ORO Hybrids-R. C. Young Co. 624 27th St. Lubbock, TX 79404	ORO Amigo	X	X	X	X	X	X	X	X	-	X
	ORO G Xtra	-	-	-	-	-	X	-	-	-	X
	ORO Baron	-	-	-	-	-	-	-	-	-	-
	ORO Hombre	-	-	X	-	-	-	-	-	-	-
	ORO Quest (EXP. 9210)	X	X	-	X	X	-	-	-	X	-

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
ORO Hybrids-R.C. Young Co.	ORO Ultra	X	X	-	X	-	-	-	-	-	-
	ORO Edge	-	-	-	-	-	X	X	-	X	-
	ORO Ivory	-	-	-	-	-	-	-	-	X	-
	ORO EXP. 9211	X	X	X	X	-	-	X	X	-	X
Pioneer Hi-Bred Int'l., Inc. P.O. Box 788 Plainview, TX 79072	8195	-	X	X	X	-	-	-	-	-	-
	8118 (XS116)	-	X	X	X	-	-	-	-	-	-
	8313	-	X	X	X	-	X	X	-	-	-
	8379	-	-	-	-	-	X	X	-	-	-
	8601	-	-	-	-	-	X	X	-	-	-
	8699	-	-	-	-	-	X	X	-	-	-
	8452	-	-	-	-	-	-	-	-	X	-
	8310 (XS418) 8446	-	X	X	X	-	X	X	-	-	-
Pogue Seed Company P.O. Drawer 389 Kenedy, TX 78119	AG233	X	X	-	X	-	-	-	-	-	-
	Richardson Seeds, Inc. Box 60 Vega, TX 79092-0060	RS200E X55830 Sprint	X - -	- - -	- - -	- - -	- - -	X X -	- - -	- - -	- X X
SEEDCO Corporation 103 Erskine Lubbock, TX 79403	SC-705	X	X	-	-	-	-	-	-	-	-
	SC-710	X	X	-	-	-	-	-	-	-	-
Seed Source, Inc. 106 4th Street Leland, MS 38756	SPB011X	X	-	-	-	X	-	-	X	-	-
	SPB01940X	X	-	-	-	X	-	-	-	-	-
	SPB14938X	X	-	-	-	-	-	-	-	-	-
	SPB14937	-	-	-	-	X	-	-	-	-	-
	SPB16908X	-	-	-	-	X	-	-	X	-	X
	SPB16908X	-	-	-	-	-	-	-	X	-	X
	SPB19937X	-	-	-	-	-	-	-	X	-	-

Table 1. (Continued)

Company & Address	Hybrid	College										
		Weslaco	Gregory	Hondo	Danevang	Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas	
Seed Source, Inc. (continued)	SPB06942X	X	-	-	-	-	-	-	-	-	-	-
	SPB006X	-	-	-	-	-	-	-	X	-	-	-
	SPB14933X	-	-	-	-	-	-	-	-	-	-	X
	SPB11936X	-	-	-	-	-	-	-	-	-	-	X
Taylor-Evans Seed Co. P.O. Box 68 Tulia, TX 79088	T-E Y-75	-	X	X	X	X	X	-	X	-	-	X
	T-E 76	-	-	-	-	-	-	X	-	-	-	-
	T-E 77-E	X	-	-	-	-	-	-	X	-	-	X
	T-E 9121-X	X	-	-	-	X	-	-	-	-	-	X
	T-E Sonora (9202-X)	-	-	X	X	-	-	-	-	-	X	-
	T-E 9118-X	-	-	-	-	-	-	X	-	-	X	-
	T-E Prosper	-	-	-	-	-	X	X	-	-	-	-
	T-E Ranger	X	X	X	X	-	X	-	-	-	-	-
	T-E Eden	-	-	-	-	-	-	-	-	-	X	-
	T-E 9205-X	-	-	-	-	-	-	-	-	X	-	-
T-E Gage	-	-	-	-	-	-	-	-	-	X	-	
TEXAS SEED CO., INC. P.O. Drawer 599 221 Airport Boulevard Kenedy, TX 78119-0599	TS-488	-	X	X	X	-	X	-	-	-	-	-
Texas Agricultural Experiment Station (FM) College Station, TX 77843	ATx631 x R9021	X	X	X	X	X	X	-	X	X	X	X
	ATxARG-1 x 90T308	X	X	X	X	X	X	-	X	X	X	X
	A8618 x RTx434	X	X	X	X	X	X	-	X	X	X	X
	A8610 x R8505	X	X	X	X	X	X	-	X	X	X	X
	A8618 x 91C9188	X	X	X	X	X	X	-	X	X	X	X
	ATxARG-1 x R8505	X	X	X	X	X	X	-	X	X	X	X
	A8618 x RTx2783	X	X	X	X	X	X	-	X	X	X	X
	ATx631 x R8511	X	X	X	X	X	X	-	X	X	X	X
	A8618 x R6956	X	X	X	X	X	X	-	X	X	X	X
	ATx2752 x RTx430	X	X	X	X	X	X	X	X	X	X	X

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
Texas Agricultural Experiment Station (FM) (continued)	ATx 399 x RTx430	X	X	X	X	X	X	X	X	X	X
	ATx 378 x RTx430	X	X	X	X	X	X	X	X	X	X
Texas Agricultural Experiment Station (DR) College Station, TX 77843	A807 x Tx2817	X	-	X	X	-	X	X	X	-	-
	A807 x R3224(t)	X	-	-	X	X	-	-	X	X	-
	A1 x R8503	X	-	-	-	-	-	X	-	X	-
	A1 x Tx2783	X	-	-	-	-	-	-	-	-	-
	A4R x R7730	X	-	-	-	-	-	-	-	-	-
	ABON23 x 86EON361	X	-	-	-	X	-	-	X	-	X
	ABON34 x 86EON361	X	-	-	-	X	-	-	X	-	X
	A1 x Tx430	-	X	-	-	X	-	X	X	X	-
	A35 x Tx430	-	X	-	-	-	-	-	-	X	-
	A807 x TAM428	-	X	X	X	-	X	-	-	-	-
	A807 x R8503	-	X	-	X	-	-	-	-	-	-
	A35 x P46-1	-	X	-	-	-	-	-	-	-	-
	A35 x 89CC443	-	X	-	-	-	X	-	X	-	-
	Tx 2792 x Tx2783	-	-	X	-	-	-	-	-	-	-
	A807 x R7730	-	-	X	-	-	-	-	-	-	-
	ATx626 x 89CC443	-	-	-	-	X	-	-	-	-	-
	AVar x 86EON361	-	-	-	-	-	X	-	-	-	X
	AVar x 87EON366sis	-	-	-	-	-	X	-	X	-	X
	A807 x R3224(sh)	-	-	-	-	-	-	X	-	-	-
	A35 x R8503	-	-	-	-	-	-	X	-	-	-
A1 x P46-1	-	-	-	-	-	-	X	-	X	X	
A35 x (Tx430 x R9188)	-	-	-	-	-	-	-	X	-	X	
A4R x Tx430	-	-	-	-	-	-	-	-	X	-	
A1 x R8505(RTx436)	-	-	-	-	-	-	-	-	X	-	
AVar x 86EON361	-	-	-	-	-	-	-	-	X	-	
ABON34 x 87EON366	-	-	-	-	-	-	-	-	X	-	
ABON44 x R8505	-	-	-	-	-	-	-	-	-	X	

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas
Texas Agricultural Experiment Station (DR) (continued)	A1 x Tx2737	-	-	-	-	-	-	-	-	X	-
	A1 x Tx2794	-	-	-	-	-	-	-	-	X	-
	A1 x P37-1	-	-	-	-	-	-	-	-	X	-
	A35 x P37-1	-	-	-	-	-	-	-	-	X	-
	A1 x 89CC443	-	-	-	-	-	-	-	-	X	-
	A35 x 89CC443	-	-	-	-	-	-	-	-	X	-
	AVar x 89CC443	-	-	-	-	-	-	-	-	-	X
	ATx3042 x Tx2737	-	-	-	-	-	-	-	-	X	-
	ATx399 x Tx2737	-	-	-	-	-	-	-	X	X	X
	ATx399 x Tx2536	X	X	X	X	-	X	X	X	X	X
Texas Agricultural Experiment Station (GP) College Station, TX 77843	ATx2752 x GR107A-90M18	X	-	-	-	X	X	-	X	-	-
	A1 x GR107A-90M20	X	-	-	-	X	-	-	X	-	X
	A1 x GR108-90M31	X	-	X	-	-	-	-	-	-	-
	A1 x GR108-90M33	X	-	-	-	-	-	-	-	-	-
	A1 x GR116-90M34	X	X	X	-	-	X	X	X	-	-
	A1 x GR134A-90M49	X	-	-	-	X	-	-	-	-	X
	ATx2755 x MR102-90M2	-	X	-	-	X	X	X	-	X	-
	ATx2755 x MR120-90M8	-	X	-	-	X	X	X	-	X	-
	ATx2752 x GR107A-90M20	-	X	-	-	-	X	-	-	-	X
	ATx2752 x GR108-90M31	-	X	-	-	-	-	-	-	-	-
	ATx2752 x GR134A-90M50	-	X	-	-	-	-	-	X	-	X
	A1 x GR107-90M16	-	X	-	-	X	X	-	X	-	-
	ATx2752 x GR017A-90M19	-	-	X	-	-	-	-	-	-	-
	A35 x GR107A-90M20	-	-	X	-	-	-	-	-	-	X
	A1 x GR108-90M24	-	-	X	-	-	-	-	-	-	-
	ATx2752 x GR108-90M28	-	-	-	-	X	-	-	-	-	-
	A1 x GR108-90M30	-	-	-	-	X	-	-	-	-	-
A1 x GR107A-90M19	-	-	-	-	-	X	-	-	-	-	
A1 x GR126-90M36	-	-	-	-	-	-	X	X	X	-	

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Gregory	Hondo	Danevang	College Station	Thrall	McKinney	Lub"1"	Lub"D"	Dumas	
Texas Agricultural Experiment Station (GP) (continued)	A1 x GR107-90M17	-	-	-	-	-	-	X	-	-	-	
	ATx2752 x GR107-90M15	-	-	-	-	-	-	-	X	-	-	
	ATx2752 x GR107-90M16	-	-	-	-	-	-	-	X	-	-	
	ATx2752 x GR107-90M20	-	-	-	-	-	-	-	X	-	-	
	ATx2752 x GR126-90M36	-	-	-	-	-	-	-	X	-	X	
	ATx2752 x GR134A-90M49	-	-	-	-	-	-	-	X	-	X	
	A35 x GR107-90M15	-	-	-	-	-	-	-	-	X	-	
	A35 x GR017-90M16	-	-	-	-	-	-	-	-	X	-	
	A35 x GR017A-90M18	-	-	-	-	-	-	-	-	X	-	
	A35 x GR107-90M19	-	-	-	-	-	-	-	-	X	-	
	A35 x GR116-90M34	-	-	-	-	-	-	-	-	X	-	
	A35 x GR126-90M36	-	-	-	-	-	-	-	-	X	-	
	A35 x GR134A-90M49	-	-	-	-	-	-	-	-	X	-	
	A35 x GR134A-90M50	-	-	-	-	-	-	-	-	X	-	
	ATx2755 x MR112-90M4	-	-	-	-	-	-	-	-	-	X	-
	ATx2755 x MR112-90M6	-	-	-	-	-	-	-	-	-	X	-
	ATx2801 x MR102-90M2	-	-	-	-	-	-	-	-	-	X	-
	ATx2801 x MR112-90M4	-	-	-	-	-	-	-	-	-	X	-
	ATx2801 x MR112-90M6	-	-	-	-	-	-	-	-	-	X	-
	A35 x Tx2783	-	-	-	-	-	-	-	-	-	X	-
	A35 x Tx2864	-	-	-	-	-	-	-	-	-	X	-
	A35 x Tx2868	-	-	-	-	-	-	-	-	-	X	-
	ATx2755 x Tx2767	-	-	-	-	-	-	-	-	-	X	-
	ATx2755 x Tx2872	-	-	-	-	-	-	-	-	-	X	-
	ATx2792 x Tx2864	-	-	-	-	-	-	-	-	-	X	-
	ATx2792 x Tx2783	X	X	X	X	X	-	-	-	X	-	-
	A1 x Tx2862	X	X	X	X	X	-	-	-	X	-	X
A1 x Tx2783	-	-	-	-	-	X	X	X	-	-	-	
A1 x Tx2864	-	-	-	-	-	X	-	-	-	-	-	

Table 1. (Continued)

Company & Address	Hybrid	College									
		Weslaco	Gregory	Hondo	Danevang	Station	Thrall	McKinney	Lub [®] I [™]	Lub [®] D [™]	Dumas
Texas Agricultural Experiment Station (GP) (continued)	ATx2755 x Tx2880	-	-	-	-	X	X	X	-	X	-
	ATx2801 x Tx2872	-	-	-	-	X	-	-	-	X	-
	CHECK	X	X	X	X	-	X	X	X	X	X
	CHECK	X	X	X	X	-	X	X	X	X	X
	CHECK	X	X	-	-	-	-	X	-	-	X
	CHECK	X	-	-	-	-	-	X	-	-	X
	CHECK	-	-	-	-	-	-	X	-	-	-

TABLE 2.

AGRONOMIC AND TEST INFORMATION: WESLACO

TEST:	1992 Irrigated Grain Sorghum Performance Test
LOCATION:	Texas A&M University Research and Extension Center, Weslaco, Texas
COOPERATORS:	Ralph Morgan, John Drawe, Ray Castaneda, and Dennis Pietsch
SOIL TYPE:	Raymondville clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked, chiseled, disked, bedded
DATE PLANTED:	2-28&29-92
DATE THINNED:	3-25-92; thinned to approximately 5 plants/foot
PLOT LENGTH:	30'
FERTILIZER:	160-0-0; applied 80 lb N as liquid 32-0-0 on 2-14-92, and 80 lb N as liquid 32-0-0 on 4-9-92
HERBICIDE:	4 pt/A AATREX 4L (Atrazine) on 2-29-92
INSECTICIDE:	4 oz/A of Di-Syston on 3-26-92 for yellow sugarcane aphids; 5 oz/A of Lorsban for midge control on 5-20
RAINFALL:	January = 3.89"; February = 2.78"; March = 0.15"; April = 3.80"; May = 4.56"; June = 0.00"; July = 0.12"; Total = 15.3"
IRRIGATIONS:	One on 3-3-92 to insure proper germination
DATE HARVESTED:	7-7-92 with a MF8 plot combine
SIZE HARVESTED PLOT:	Two rows, each 30' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	85
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	5,178 lb/A; yields corrected to 13% moisture
TEST C.V:	7.1 percent

GENERAL INFORMATION: Grain sorghum is a major commodity in the Rio Grande Valley of Texas as represented by Texas Crop Reporting District 10-S. This year according to the Texas Agricultural Statistics Service, 530,000 acres of grain sorghum were planted in this District as compared to 286,000 acres in 1991. This accounts for 11.3% of the total Texas acreage which is estimated to be 4.7 million acres.

Conditions were not favorable for maximum grain sorghum production at this test site as was the case throughout the region. A combination of problems throughout the growing season probably affected potential yields. Although a near-optimum planting date was secured, cool damp weather hampered seedling emergence thus retarding early plant growth. At thinning, yellow sugarcane aphids were observed in the test block resulting in a slight reduction of plant stands. The test block was sprayed with an insecticide to control the pest. Maize Dwarf Mosaic Virus (MDMV) was observed in the test block and may have affected yields. Visual ratings for MDMV were taken by Ralph Morgan on June 8. Ratings are available from the Crop Testing Personnel upon request. Abundant rainfall during the flowering stage in addition to the high number of overcast days were contributing factors that also affected final yields. Although this is designated as an irrigated test site, only one irrigation was applied to the test block on March 3 which insured germination after planting. Due to above normal rainfall, no other irrigations were applied during the growing season.

The test mean yield was only 5,178 lb/A compared to the past 10-year average of 6,718 lb/A . Only two hybrids in the test produced over 6,000 lb/A.

Sometimes, after we have completed our test design and randomization, we receive late entries from a company desiring to have entries included in the performance test. These entries are usually planted on border rows and not replicated within the test. Such was the case with entries submitted by Kelly Green Seed Co. Although these hybrids were planted at the same time, the potential of the hybrids may not be reflected when compared to those randomized within the block.

Table 2A. GRAIN SORGHUM PERFORMANCE TEST; WESLACO, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Bird	Midge Dam- age %	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	74	52	7	0.0	0.0	60.5	15.4	6206	A
DEKALB D-62	DEKALB Plant Genetics	Bz	P	ML	75	54	8	0.0	1.7	59.8	15.0	6072	A-B
KS 936	Northrup King Co.	R	*	L	73	56	8	0.0	0.0	62.2	15.5	5938	A-C
A1 x Tx2783	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	76	55	4	0.0	0.0	61.2	15.5	5912	A-D
1552	Delta and Pine Land Co.	Bz	P	M	73	47	7	0.0	0.3	61.6	15.0	5903	A-D
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	74	50	10	0.0	0.0	60.1	15.0	5854	A-E
CHECK	Tx. Agri. Exp. Stat.	Bz	P	L	69	48	5	0.3	1.3	60.7	14.8	5832	A-F
ICI Seeds 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	73	49	7	0.0	1.0	60.3	14.6	5794	A-G
A4R x R7730	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	75	50	11	0.0	0.3	62.1	15.1	5782	A-G
Rustler	Conlee Seed Co., Inc.	R	P	M	69	52	8	0.0	0.0	59.7	14.8	5781	A-G
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	73	47	6	0.0	2.0	60.7	15.1	5753	A-G
1710	Delta and Pine Land Co.	Bz	P	ML	71	50	5	0.0	0.7	59.7	14.6	5751	A-G
AG 233	Pogue Seed Co.	Bz	R	ML	70	52	7	0.0	0.0	59.4	14.7	5744	A-G
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	*	*	*	73	51	8	0.0	1.3	62.0	15.0	5734	A-G
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	76	55	4	0.0	3.7	60.5	15.4	5704	A-H
837	Cargill Hybrid Seeds	Bz	P	ML	72	49	6	0.0	0.3	59.7	14.9	5695	A-I
NC+ 7B90	NC+ Hybrids	Bz	*	M	72	50	9	0.0	1.3	59.3	14.7	5668	A-J
F-524	Frontier Hybrids, Inc.	Bz	T	M	72	50	6	0.0	1.0	60.7	15.0	5662	A-J
2665	Northrup King Co.	R	*	ML	70	47	7	0.0	2.0	60.2	14.9	5661	A-J
A1 x GR108-90M33	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	76	51	3	0.0	0.0	61.0	15.4	5652	A-K
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	Bz	P	ML	69	51	7	0.0	1.0	58.1	15.1	5643	A-K
W-902-W	GEORGE WARNER SEED CO.	Wt	T	ML	79	57	8	0.0	6.7	60.2	15.0	5600	A-L
HSC Wings	HyPerformer Seed Co.	Bz	*	ML	70	51	6	0.0	1.0	60.5	15.0	5580	A-M
A603	ASGROW SEED CO.	R	P	ML	72	48	11	0.0	0.0	60.4	14.5	5576	A-M
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	69	49	6	0.0	1.3	60.1	14.8	5565	A-M
A1 x GR108-90M31	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	76	49	7	0.0	1.0	60.9	15.8	5528	A-M
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	75	48	5	0.0	0.0	60.9	15.6	5497	A-N
W-917-E	GEORGE WARNER SEED CO.	R	R	ML	69	50	8	1.0	0.7	60.5	15.2	5490	A-O
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	R	ML	75	49	4	0.0	0.0	61.5	15.6	5473	A-P
DEKALB DK-50	DEKALB Plant Genetics	Bz	P	ML	74	50	5	0.0	1.0	57.7	14.7	5463	A-Q

Table 2A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Bird	Midge Dam- age %	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	Wt	R	ML	75	49	5	0.0	0.7	60.8	15.2	5460	B-Q
ATx2752 x Tx430	Tx. Agri. Exp. Stat.	Bz	P	ML	70	49	8	0.0	0.0	60.1	14.9	5458	B-Q
T-E 77E	Taylor-Evans Seed Co.	Bz	P	L	69	48	7	0.3	1.0	59.3	14.9	5457	B-Q
GW2789X	Crosbyton Seed Co., Inc.	Bz	P	L	74	48	6	0.0	1.7	60.5	14.7	5449	B-R
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	69	54	9	0.3	0.3	60.5	15.0	5434	B-R
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	*	*	*	74	47	5	0.0	2.3	60.4	14.9	5420	B-S
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	Rt	P	M	74	50	5	0.0	0.0	59.5	14.9	5388	B-S
GSC 3146	Gro Agri Seed Co.	R	P	M	69	49	9	0.0	0.0	60.9	14.6	5371	B-S
W-876-DR	GEORGE WARNER SEED CO.	Bz	R	ML	71	50	7	0.0	0.0	59.7	14.8	5361	B-S
SPB14938X	Seed Source, Inc.	Bz	P	ML	70	61	12	1.7	0.7	60.3	14.7	5359	B-S
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	R	P	ML	72	49	7	0.0	0.7	59.9	14.8	5326	B-T
G-1616	Delta and Pine Land Co.	Bz	P	ML	73	52	7	0.0	0.0	58.6	14.6	5297	C-T
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	72	56	8	0.0	2.7	58.7	15.0	5290	C-T
HSC 91HSC-17	HyPerformer Seed Co.	Bz	*	ML	72	52	6	0.3	1.7	62.6	15.5	5266	C-U
SC-705	SEEDCO Corporation	Bz	P	M	72	50	8	0.0	1.3	60.7	15.0	5256	C-U
1558	Delta and Pine Land Co.	Rt	P	M	70	47	8	0.0	0.3	61.4	14.9	5256	C-U
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	75	55	6	0.0	2.7	60.1	15.4	5235	C-V
T-E Ranger	Taylor-Evans Seed Co.	R	P	ML	69	51	12	0.0	0.0	61.4	14.7	5234	C-V
Quest	ORO Hybrids-R.C. Young	Bz	P	ML	69	48	8	0.0	1.0	60.1	15.0	5168	D-W
CHECK	Tx. Agri. Exp. Stat.	Rt	P	M	69	49	8	0.3	0.0	59.5	15.1	5147	E-X
DEKALB D-57	DEKALB Plant Genetics	Bz	P	M	73	50	6	0.0	0.7	58.7	14.8	5125	E-X
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	74	46	8	0.0	0.7	61.7	15.2	5113	E-X
W-816-E	GEORGE WARNER SEED CO.	R	R	M	69	48	6	1.0	0.7	60.6	15.1	5099	F-X
T-E 9121-X	Taylor-Evans Seed Co.	R	P	ML	69	54	8	0.0	0.0	57.2	14.4	5080	F-X
HSC Cherokee	HyPerformer Seed Co.	R	*	M	69	48	6	0.0	0.0	56.6	14.7	5054	G-X
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	70	49	7	0.0	0.0	58.9	14.5	4953	H-X
GW2780X	Crosbyton Seed Co., Inc.	Bz	P	L	70	48	5	0.0	2.0	59.8	14.5	4946	I-X
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	Bz	P	ML	72	48	8	0.0	1.7	58.7	14.6	4942	J-X
NC+ 472	NC+ Hybrids	Bz	*	M	70	48	9	0.0	0.0	58.5	14.5	4906	K-X
GW6062X	Crosbyton Seed Co., Inc.	R	P	M	68	45	11	0.0	0.0	61.6	15.2	4901	K-X

Table 2A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Bird	Midge Dam- age %	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
KG-6814	KELLY GREEN SEEDS, INC.	Bz	*	ML	.	48	7	0.0	1.7	60.4	15.6	4883	L-X
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ML	69	51	8	1.7	2.3	60.0	15.4	4832	M-Y
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.	Wt	T	M	73	48	8	0.0	0.3	59.1	14.5	4756	N-Z
SC-710	SEEDCO Corporation	R	P	M	71	47	5	0.0	0.0	59.5	14.7	4744	O-Z
SPB06942X	Seed Source, Inc.	Bz	P	M	70	48	8	0.0	0.0	60.0	14.5	4736	P-Z
Top Hand II	Conlee Seed Co., Inc.	Bz	P	M	72	45	9	0.0	0.0	59.0	14.5	4735	P-Z
CHECK	Tx. Agri. Exp. Stat.	Rt	P	ML	68	47	6	0.0	0.3	60.6	14.9	4717	Q-AA
SPB011X	Seed Source, Inc.	Bz	P	M	73	48	5	0.0	2.7	59.4	15.0	4715	Q-AA
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	78	49	5	0.0	5.7	60.1	15.1	4704	R-AA
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.	Wt	R	ML	73	51	6	0.0	0.0	58.7	14.7	4683	S-AA
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	69	46	9	0.0	0.0	58.4	14.3	4675	S-AA
SPB01940X	Seed Source, Inc.	Bz	P	ML	73	46	7	0.0	0.3	55.9	13.9	4607	T-BB
ORO Ultra	ORO Hybrids-R.C. Young	Bz	P	ML	73	47	8	0.0	0.0	58.4	14.5	4583	T-CC
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	84	51	6	0.0	3.7	57.4	14.6	4535	U-CC
NC+ 7B81E	NC+ Hybrids	Bz	*	M	69	44	6	1.0	0.7	59.7	14.7	4501	V-DD
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	84	46	2	0.0	3.3	59.3	14.7	4446	W-DD
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	76	51	9	0.0	4.3	60.0	16.8	4427	W-DD
GSC 1290E	Gro Agri Seed Co.	Bz	P	ML	69	44	7	0.7	0.0	60.0	15.1	4409	X-DD
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	76	46	6	0.0	3.7	58.8	14.6	4404	X-DD
RS200E	Richardson Seeds, Inc.	Rt	R	ME	67	48	6	4.0	0.0	58.7	14.8	4116	Y-DD
KG-6714	KELLY GREEN SEEDS, INC.	Bz	*	ML	.	46	7	0.0	1.7	59.3	15.0	4069	Z-DD
KG-6614	KELLY GREEN SEEDS, INC.	R	*	ML	.	46	7	1.7	1.7	60.7	15.6	4005	AA-DD
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	76	41	8	0.0	4.5	55.9	14.6	3917	BB-DD
KG-6922	KELLY GREEN SEEDS, INC.	Bz	*	ML	.	53	8	0.7	4.7	59.2	15.5	3877	CC-DD
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	84	46	3	0.0	9.0	57.6	14.2	3811	DD

Test Mean = 5,178 lb/A Test C. V. = 7.1 LSD .05 = 588.8

Note 1: The ANOVA procedure was used for statistical analysis.

Table 2A. (CONTINUED)

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

* Pioneer 8313, Taylor-Evans T-E 77E, Gro Agri GSC 3150 and ORO Hybrids ORO Baron were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 2B. Three-year summary, Grain Sorghum Performance Test, Weslaco, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	1	6206	37	5396	5	6089
DEKALB D-62	DEKALB Plant Genetics	2	6072	1	6184	-	-
KS 936	Northrup King Co.	3	5938	-	-	-	-
A1 x Tx2783	Tx. Agri. Exp. Stat.(DR)	4	5912	60	5049	90	4613
1552	Delta and Pine Land Co.	5	5903	28	5567	-	-
DEKALB DK-56	DEKALB Plant Genetics	6	5854	72	4782	54	5513
CHECK (8313)		7	5832	17	5809	48	5568
ICI Seeds 5323	ICI Seeds (Garst Seed Co.)	8	5794	-	-	-	-
A4R x R7730	Tx. Agri. Exp. Stat.(DR)	9	5782	-	-	-	-
Rustler	Conlee Seed Co., Inc.	10	5781	16	5809	29	5774
ORO EXO. 9211	ORO Hybrids-R.C. Young	11	5753	-	-	-	-
1710	Delta and Pine Land Co.	12	5751	23	5635	-	-
AG 233	Pogue Seed Co.	13	5744	-	-	-	-
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	14	5734	-	-	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	15	5704	25	5597	59	5461
837	Cargill Hybrid Seeds	16	5695	45	5284	-	-
NC+ 7B90	NC+ Hybrids	17	5668	40	5320	32	5760
F-524	Frontier Hybrids, Inc.	18	5662	15	5814	6	6068
2665	Northrup King Co.	19	5661	38	5355	45	5609
A1 x GR108-90M33	Tx. Agri. Exp. Stat.(GP)	20	5652	-	-	-	-
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	21	5643	7	5943	-	-
W-902-W	GEORGE WARNER SEED CO.	22	5600	59	5054	-	-
HSC Wings	HyPerformer Seed Co.	23	5580	41	5319	63	5389
A603	ASGROW SEED CO.	24	5576	-	-	-	-
ORO Amigo	ORO Hybrids-R.C. Young	25	5565	48	5265	18	5887
A1 x GR108-90M31	Tx. Agri. Exp. Stat.(GP)	26	5528	-	-	-	-
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	27	5497	-	-	-	-
W-917-E	GEORGE WARNER SEED CO.	28	5490	22	5669	76	5225
A1 x Tx2862	Tx. Agri. Exp. Stat.	29	5473	-	-	-	-
DEKALB DK-50	DEKALB Plant Genetics	30	5463	4	6046	-	-

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	31	5460	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	32	5458	18	5787	82	5099
T-E 77E	Taylor-Evans Seed Co.	33	5457	63	5009	16	5910
GW2789X	Crosbyton Seed Co., Inc.	34	5449	-	-	-	-
DEKALB DK-37	DEKALB Plant Genetics	35	5434	31	5514	-	-
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	36	5420	-	-	-	-
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	37	5388	-	-	-	-
GSC 3146	Gro Agri Seed Co.	38	5371	-	-	49	5566
W-876DR	GEORGE WARNER SEED CO.	39	5361	67	4909	53	5517
SPB14938X	Seed Source, Inc.	40	5359	-	-	-	-
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	41	5326	-	-	-	-
G-1616	Delta and Pine Land Co.	42	5297	-	-	23	5834
ATx378 x RTx430	Tx. Agri. Exp. Stat.	43	5290	54	5196	72	5301
HSC 91HSC-17	HyPerformer Seed Co.	44	5266	-	-	-	-
SC-705	SEEDCO Corporation	45	5256	39	5345	31	5770
1558	Delta and Pine Land Co.	46	5256	29	5559	77	5187
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	47	5235	49	5262	-	-
T-E Ranger	Taylor-Evans Seed Co.	48	5234	-	-	40	5675
Quest	ORO Hybrids-R.C. Young	49	5168	-	-	-	-
CHECK (T-E Y-75)		50	5147	33	5458	85	5044
DEKALB D-57	DEKALB Plant Genetics	51	5125	-	-	-	-
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	52	5113	57	5116	-	-
W-816-E	GEORGE WARNER SEED CO.	53	5099	-	-	-	-
T-E 9121-X	Taylor-Evans Seed Co.	54	5080	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	55	5054	6	5993	78	5151
ATx399 x RTx430	Tx. Agri. Exp. Stat.	56	4953	44	5293	66	5358
GW2780X	Crosbyton Seed Co., Inc.	57	4946	-	-	-	-
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	58	4942	8	5929	-	-
NC+ 472	NC+ Hybrids	59	4906	34	5447	15	5932
GW6062X	Crosbyton Seed Co., Inc.	60	4901	-	-	-	-

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
KG-6814	KELLY GREEN SEEDS, INC.	61	4883	-	-	-	-
CHECK (GSC 3150)		62	4832	19	5786	12	5993
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	63	4756	-	-	-	-
SC-710	SEEDCO Corporation	64	4744	9	5908	93	4497
SPB06942X	Seed Source, Inc.	65	4736	-	-	-	-
Top Hand II	Conlee Seed Co., Inc.	66	4735	-	-	-	-
CHECK (ORO Baron)		67	4717	11	5877	79	5130
SPB011X	Seed Source, Inc.	68	4715	-	-	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.	69	4704	-	-	-	-
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	70	4683	73	4720	-	-
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	71	4675	12	5849	89	4647
SPB01940X	Seed Source, Inc.	72	4607	-	-	-	-
ORO Ultra	ORO Hybrids-R.C. Young	73	4583	30	5547	-	-
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	74	4535	-	-	-	-
NC+ 7B81E	NC+ Hybrids	75	4501	-	-	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	76	4446	76	4501	-	-
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	77	4427	83	3679	-	-
GSC 1290E	Gro Agri Seed Co.	78	4409	-	-	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	79	4404	79	4328	-	-
RS200E	Richardson Seeds, Inc.	80	4116	-	-	-	-
KG-6714	KELLY GREEN SEEDS, INC.	81	4069	-	-	-	-
KG-6614	KELLY GREEN SEEDS, INC.	82	4005	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	83	3917	-	-	-	-
KG-6922	KELLY GREEN SEEDS, INC.	84	3877	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	85	3811	-	-	-	-
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	-	-	2	6052	56	5506
dk 760	DOUGLASS W. KING CO, INC	-	-	21	5711	58	5484
ORO Zenith	ORO Hybrids-R.C. Young	-	-	26	5577	55	5507
ATx631 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	32	5479	47	5600
Rio Grande	Western Heritage Seed Co.	-	-	35	5435	30	5774

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 573	NC+ Hybrids	--	--	42	5316	87	5005
GSC 3148	Gro Agri Seed Co.	--	--	43	5295	50	5528
dk 775	DOUGLASS W. KING CO, INC	--	--	46	5273	3	6175
ORO G Xtra	ORO Hybrids-R.C. Young	--	--	51	5223	36	5716
T-E 76	Taylor-Evans Seed Co.	--	--	52	5217	8	6049
dk 780	DOUGLASS W. KING CO, INC	--	--	53	5210	64	5389
A1 x 86EON361	Tx. Agri. Exp. Stat.(DR)	--	--	55	5184	19	5871
KS 737	Northrup King Co.	--	--	61	5032	37	5714
ORO Hombre	ORO Hybrids-R.C. Young	--	--	64	5005	7	6058
AAArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	--	--	65	4963	57	5489
Rio Bravo	Western Heritage Seed Co.	--	--	66	4921	33	5726
SG-942	Garrison & Townsend, Inc.	--	--	77	4463	25	5827
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	--	--	80	4291	35	5718
Number Entries:		85		83		96	
Test Mean Yield:			5178		5300		5488

Note: Hybrids with the same yields were ranked by computer.

TABLE 3.

AGRONOMIC AND TEST INFORMATION: GREGORY

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	John Hunt's Farm, San Patricio County, Gregory, Texas
COOPERATORS:	Pustjevovsky and Sons, Darwin Anderson, Dennis Pietsch, Randy Gaas, Leon Synatschk, and Kenneth Schaefer
SOIL TYPE:	Victoria clay
ROW WIDTH:	38"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Plowed stalks with a Lehman plow, bedded (2)
DATE PLANTED:	3-2-92 with cone planter
DATE THINNED:	3-26-92; approximately 4-5 plants/foot
PLOT LENGTH:	26.5'
FERTILIZER:	Applied 300 lb/A of liquid 20-15-0 in Fall '91
HERBICIDE:	Banded 1 qt/A AAtrex 4L (atrazine) when grain sorghum was 4-5" tall
INSECTICIDE:	Applied 6 lb/A Furdan at planting.
RAINFALL:	From January 1 to mid-May, approximately 50 inches of rainfall were recorded. June and July were dry.
IRRIGATIONS:	None
DATE HARVESTED:	7-16-92 with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows x 26.5'
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	74
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	4,019 lb/A; yields corrected to 13% moisture
TEST C.V.:	10.7 percent

GENERAL INFORMATION: Average yields were attained at this test site despite record setting rainfall in the Coastal Bend area. According to rainfall records, approximately 50 inches of rainfall were recorded from January to mid-May at the test block.

Despite the abundant rainfall, an optimum planting date was secured and seedling emergence was rapid. Excellent plant stands were attained after thinning. At thinning, yellow sugarcane aphids, greenbugs, and chinch bugs were observed but the incidence was low; however, a heavy rain shortly after thinning eliminated the need of spraying. Excellent plant growth and development resulted from surface and subsoil moisture, but hot and dry weather conditions prevailed in June and July thus reducing potential yields.

This was the first year a mechanized plot harvester was used to harvest the test block. The MF8 plot combine harvested two rows, 26.5 feet long with plot weight, test weight, and moisture determined with electronic equipment mounted on the combine. The test mean yield was 4,109 lb/A compared to the past five year average of 3,936 lb/A. The following Table gives agronomic data for the test. The incidence of bird and midge damage was low with the range being from 0 to 7.5 percent and from 0 to 15 percent respectively. Excellent bushel weights were recorded with the range being from 55.5 to 61.2 lb/bu.

Table 3A. GRAIN SORGHUM PERFORMANCE TEST; GREGORY, TEXAS 1992

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Head Exser- tion Inches 7	Desir- ability Rating 5 8	Midge Dam- age % 9	Test Weight lb/bu 10	Mois- ture % 11	Yield lb/A 12	Stat. Sig., 0.05 6 13
8118	Pioneer Hi-Bred Int., Inc.	Bz	P	L	82	56	9	1.3	0.0	58.4	16.0	4836	A
8313	Pioneer Hi-Bred Int., Inc.	Bz	P	ML	79	48	6	1.0	0.0	59.5	15.7	4828	A
HSC Wings	HyPerformer Seed Co.	Bz	*	ML	81	52	8	1.8	0.0	59.3	16.2	4706	A-B
AG 233	Pogue Seed Co.	Bz	R	ML	80	52	7	1.5	0.0	59.7	16.0	4702	A-B
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	Ct	P	ML	81	53	7	1.3	0.0	55.5	17.4	4635	A-B
Rustler	Conlee Seed Co., Inc.	R	P	M	78	52	6	2.0	0.0	58.8	15.9	4590	A-C
A807 x R8503	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	83	52	7	1.6	0.0	57.3	21.0	4582	A-C
1710	Delta and Pine Land Co.	Bz	P	ML	78	51	5	1.6	0.0	58.2	16.1	4581	A-C
2665	Northrup King Co.	R	*	ML	79	47	6	1.8	2.5	60.6	15.7	4543	A-C
ICI 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	80	51	10	1.8	0.0	57.6	15.7	4533	A-D
CHECK	Tx. Agri. Exp. Stat.	R	R	ML	78	55	8	1.9	0.0	59.1	15.4	4481	A-E
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	77	55	10	1.6	0.0	58.2	16.6	4439	A-E
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	R	R	ML	80	52	6	1.8	0.0	58.2	15.2	4395	A-F
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	79	51	7	1.5	1.0	59.3	15.9	4384	A-F
ATx2752 x GR108-90M31	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	81	53	8	1.4	0.0	61.2	15.7	4376	A-F
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	81	52	8	1.3	0.5	58.7	16.2	4340	A-G
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	80	59	9	1.5	0.0	57.3	15.5	4334	A-G
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	Bz	P	ML	80	52	7	1.8	1.0	59.8	16.1	4333	A-G
F-524	Frontier Hybrids, Inc.	Bz	T	M	80	51	7	1.8	0.0	58.0	15.8	4318	A-G
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	R	ML	82	52	6	1.1	0.0	59.1	17.8	4278	A-G
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	79	49	6	2.0	0.0	59.4	15.2	4248	A-H
8310	Pioneer Hi-Bred Int., Inc.	R	R	ML	79	50	7	1.6	0.0	55.7	16.0	4239	A-I
837	Cargill Hybrid Seeds	Bz	P	ML	84	52	9	1.5	0.0	55.8	16.9	4219	A-I
dk 780	DOUGLASS W. KING CO, INC	R	*	ML	78	50	8	1.5	0.0	57.8	15.4	4210	A-I
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	79	52	7	1.4	0.0	59.3	15.9	4209	A-I
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	82	53	8	1.1	0.0	58.7	18.6	4194	A-I
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	83	54	10	1.3	0.0	59.8	16.0	4183	A-I
HM 2250	Harvest Master Seed Co.	Bz	R	ML	79	51	7	1.8	0.0	59.5	15.7	4177	A-I
HSC Cherokee	HyPerformer	R	*	M	79	51	8	2.0	0.0	58.0	15.4	4175	A-I
Quest	ORO Hybrids-R.C. Young	Bz	P	ML	80	50	11	1.3	0.0	58.6	15.9	4172	A-I

Table 3A. (CONTINUED)

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Head Exser- tion Inches 7	Desir- ability Rating 8	Midge Dam- age % 9	Test Weight lb/bu 10	Mois- ture % 11	Yield lb/A 12	Stat. Sig., 0.05 6
GSC 1313	Gro Agri Seed Co.	R	P	M	78	51	8	1.3	0.0	59.7	15.4	4163	A-I
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	79	48	8	2.4	0.0	56.1	14.8	4160	A-I
TS-488	TEXAS SEED CO., INC.	Bz	R	M	79	50	8	2.0	0.0	58.9	15.3	4158	A-I
ICI 5616	ICI Seeds (Garst Seed Co.)	R	P	M	75	47	8	2.0	0.0	58.1	15.3	4156	A-I
T-E Ranger	Taylor-Evans Seed Co.	R	P	M	78	51	10	1.8	0.0	60.0	15.6	4141	A-I
SC-710	SEEDCO Corporation	R	P	M	81	51	8	1.8	1.0	59.4	15.0	4134	A-I
HSC 91HSC-17	HyPerformer Seed Co.	Bz	*	ML	82	52	8	1.6	0.0	60.3	15.6	4126	A-I
X10216	Cargill Hybrid Seeds	Bz	P	M	76	49	9	1.4	0.0	58.2	15.3	4106	A-I
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	Bz	P	M	80	51	9	1.5	0.0	58.2	16.8	4105	A-I
A603	ASGROW SEED CO.	R	P	ML	81	50	11	1.3	0.0	59.1	16.3	4103	A-I
857	Cargill Hybrid Seeds	Bz	P	ML	82	47	5	1.6	1.5	58.2	15.7	4102	A-I
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	82	52	6	5.0	0.0	58.9	17.1	4092	A-I
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	80	50	7	2.3	1.0	60.5	15.8	4082	A-I
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	77	48	10	1.5	0.0	56.5	14.8	4033	A-J
8195	Pioneer Hi-Bred Int., Inc.	Bz	P	L	80	48	8	1.8	0.0	55.8	15.3	4022	A-J
GSC 1299	Gro Agri Seed Co.	Bz	P	ML	79	50	9	2.2	0.0	59.2	15.6	3969	A-J
NC+ 7B81E	NC+ Hybrids	Bz	*	M	76	43	6	1.3	0.0	58.9	15.1	3967	A-J
HM 2280	Harvest Master Seed Co.	R	R	ML	79	49	9	2.0	0.0	59.1	15.3	3960	A-J
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	84	61	9	1.5	0.0	56.8	19.3	3921	B-J
NC+ 472	NC+ Hybrids	Bz	*	M	80	47	7	1.8	0.0	56.9	15.5	3908	B-J
NC+ 7B90	NC+ Hybrids	Bz	*	M	81	49	7	1.8	0.0	57.2	15.6	3893	B-J
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	79	64	10	3.0	0.0	57.4	16.4	3851	B-K
GSC 3157	Gro Agri Seed Co.	Bz	P	ML	79	48	10	1.8	0.0	57.0	15.2	3833	B-K
1558	Delta and Pine Land Co.	Rt	P	M	79	51	8	2.2	0.0	59.7	15.6	3829	B-K
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	82	44	9	1.5	1.5	56.9	15.0	3721	C-K
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	79	48	8	1.8	0.0	56.2	15.4	3650	D-K
KS 737	Northrup King Co.	R	*	ML	76	51	9	1.8	0.0	59.1	15.3	3643	D-K
1552	Delta and Pine Land Co.	Bz	P	M	81	52	7	1.2	0.0	56.8	16.3	3634	E-L
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	82	54	12	1.5	0.0	58.9	18.0	3623	E-L
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	84	53	12	2.5	2.0	59.4	15.4	3623	E-L

Table 3A. (CONTINUED)

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	Desir- ability Rating 5	Midge Dam- age %	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 6
ORO Ultra	ORO Hybrids-R.C. Young	Bz	P	ML	79	47	7	1.6	0.0	56.6	15.3	3621	E-L
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	81	51	11	1.3	1.0	58.7	15.6	3613	E-L
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	Wt	R	ML	83	53	7	3.0	5.0	58.6	17.0	3594	E-L
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	51	8	1.8	0.0	56.5	17.9	3534	F-L
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ML	76	48	9	2.3	0.0	59.7	15.5	3518	F-L
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	84	61	9	2.4	5.0	57.4	19.6	3514	F-L
A35 x P46-1	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	81	53	13	1.1	0.0	58.1	15.7	3471	G-L
HSC 92HSC-01	HyPerformer Seed Co.	Bz	*	M	80	48	9	1.8	0.0	59.4	15.2	3461	G-L
HM 2000	Harvest Master Seed Co.	Rt	R	ME	75	46	5	2.1	0.0	57.0	15.2	3386	H-L
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ME	74	43	7	2.8	0.0	58.9	15.1	3357	I-L
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	55	11	2.3	2.5	57.0	16.7	3189	J-L
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	78	49	6	2.8	1.0	59.7	15.6	3018	K-M
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	52	7	2.6	15.0	56.8	15.6	2783	L-M
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	85	53	8	3.0	5.0	56.5	15.8	2377	M

Test Mean = 4019 Test C. V. = 10.7 LSD .05 = 695.0

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

1 Warner W-917-E, Pioneer 8379 and ORO Hybrids ORO Edge were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

2 Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

Table 3A. (CONTINUED)

- 3 Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.
- 4 Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.
- 5 Desirability rating: 1=very good 2=good 3=average 4=poor 5=very poor.
- 6 Duncan's multiple range test was used at the .05 level.

Table 3B. Three-year summary, Grain Sorghum Performance Test, Gregory, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
8118	Pioneer HI-Bred Int., Inc.	1	4836	-	-	-	-
8313	Pioneer HI-Bred Int., Inc.	2	4828	18	4337	69	3471
HSC Wings	HyPerformer Seed Co.	3	4706	34	4132	58	3611
AG 233	Pogue Seed Co.	4	4702	-	-	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.	5	4635	-	-	42	3749
Rustler	Conlee Seed Co., Inc.	6	4590	4	4634	47	3686
A807 x R8503	Tx. Agri. Exp. Stat.(DR)	7	4582	-	-	-	-
1710	Delta and Pine Land Co.	8	4581	19	4321	-	-
2665	Northrup King Co.	9	4543	8	4484	77	3271
ICI 5323	ICI Seeds (Garst Seed Co.)	10	4533	-	-	-	-
CHECK (W-917-E)		11	4481	-	-	-	-
DEKALB DK37	DEKALB Plant Genetics	12	4439	24	4273	17	3997
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	13	4395	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	14	4384	15	4369	67	3492
ATx2752 x GR108-90M31	Tx. Agri. Exp. Stat.(GP)	15	4376	-	-	-	-
ORO EXP. 9211	ORO Hybrids-R.C. Young	16	4340	-	-	-	-
ATx378 x RTx430	Tx. Agri. Exp. Stat.	17	4334	69	3516	72	3405
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	18	4333	10	4482	74	3372
F-524	Frontier Hybrids, Inc	19	4318	26	4225	-	-
A1 x Tx2862	Tx. Agri. Exp. Stat.	20	4278	-	-	-	-
T-E Y-75	Taylor-Evans Seed Co.	21	4248	48	3993	8	4207
8310	Pioneer Hi-Bred Int., Inc.	22	4239	-	-	-	-
837	Cargill Hybrid Seeds	23	4219	52	3950	-	-
dk 780	DOUGLASS W. KING CO, INC	24	4210	13	4392	1	4360
ORO Amigo	ORO Hybrids-R.C. Young	25	4209	50	3972	23	3901
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	26	4194	-	-	-	-
DEKALB DK-56	DEKALB Plant Genetics	27	4183	58	3842	15	4055
HM 2250	Harvest Master Seed Co.	28	4177	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	29	4175	36	4122	16	4038
Quest	ORO Hybrids-R.C. Young	30	4172	-	-	-	-
GSC 1313	Gro Agri Seed Co.	31	4163	25	4268	46	3686

Table 3B. Gregory, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	32	4160	31	4175	-	-
TS-488	TEXAS SEED CO., INC.	33	4158	11	4468	4	4277
ICI 5616	ICI Seeds (Garst Seed Co.)	34	4156	-	-	-	-
T-E Ranger	Taylor-Evans Seed Co.	35	4141	41	4072	78	3269
SC-710	SEEDCO Corporation	36	4134	29	4199	10	4143
HSC 91HSC-17	HyPerformer Seed Co.	37	4126	-	-	-	-
X10216	Cargill Hybrid Seeds	38	4106	-	-	-	-
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	39	4105	-	-	73	3378
A603	ASGROW SEED CO.	40	4103	-	-	-	-
857	Cargill Hybrid Seeds	41	4102	23	4277	-	-
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	42	4092	-	-	-	-
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	43	4082	-	-	-	-
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	44	4033	7	4502	77	3271
8195	Pioneer Hi-Bred Int., Inc.	45	4022	1	4797	-	-
GSC 1299	Gro Agri Seed Co.	46	3969	-	-	-	-
NC+ 7B81E	NC+ Hybrids	47	3967	-	-	11	4067
HM 2280	Harvest Master Seed Co.	48	3960	-	-	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	49	3921	73	3388	21	3952
NC+ 472	NC+ Hybrids	50	3908	12	4408	27	3828
NC+ 7B90	NC+ Hybrids	51	3893	6	4562	-	-
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	52	3851	61	3787	-	-
GSC 3157	Gro Agri Seed Co.	53	3833	-	-	-	-
1558	Delta and Pine Land Co.	54	3829	37	4107	5	4234
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	55	3721	-	-	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	56	3650	49	3983	51	3652
KS 737	Northrup King Co.	57	3643	35	4123	54	3631
1552	Delta and Pine Land Co.	58	3634	68	3522	-	-
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	59	3623	-	-	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	60	3623	82	1975	-	-
ORO Ultra	ORO Hybrids-R.C. Young	61	3621	39	4080	-	-
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	62	3613	-	-	-	-

Table 3B. Gregory, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	63	3594	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	64	3534	-	-	-	-
CHECK (8379)		65	3518	70	3476	29	3823
A8618 x R8505	Tx. Agri. Exp. Stat.(FM)	66	3514	-	-	-	-
A35 x P46-1	Tx. Agri. Exp. Stat.(DR)	67	3471	-	-	-	-
HSC 92HSC-01	HyPerformer Seed Co.	68	3461	-	-	-	-
HM 2000	Harvest Master Seed Co.	69	3386	-	-	-	-
CHECK (ORO Edge)		70	3357	-	-	-	-
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	71	3189	-	-	-	-
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	72	3018	-	-	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	73	2783	83	982	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	74	2377	-	-	-	-
dk 760	DOUGLASS W. KING CO, INC	-	-	5	4568	2	4299
GSC 3146	Gro Agri Seed Co.	-	-	17	4364	66	3506
847	Cargill Hybrid Seeds	-	-	21	4286	44	3704
ORO Baron	ORO Hybrids-R.C. Young	-	-	22	4282	24	3897
SC-705	SEEDCO Corporation	-	-	30	4191	59	3605
dk 776	DOUGLASS W. KING CO, INC	-	-	38	4105	7	4229
GSC 3148	Gro Agri Seed Co.	-	-	40	4079	3	4277
AAArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	46	4010	36	3798
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	-	-	51	3960	86	3049
ATx631 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	54	3930	75	3314
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	-	-	55	3915	60	3601
A35 x R8505	Tx. Agri. Exp. Stat.(DR)	-	-	59	3805	63	3533
A1 x Tx2783	Tx. Agri. Exp. Stat.(DR)	-	-	72	3409	85	3073
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	-	-	79	2588	37	3788
Number Entries:		74		83		89	
Test Mean Yield:			4019		3926		3669

Note: Hybrids with the same yields were ranked by computer.

TABLE 4.

AGRONOMIC AND TEST INFORMATION: HONDO

TEST:	1992 Irrigated Grain Sorghum Performance Test
LOCATION:	Vandenburg Farms; Wayne and Pat Stein, Hondo, Texas
COOPERATORS:	Wayne and Pat Stein, Wayne Scholtz, John Northcut, Dennis Pietsch, Randy Gaas, and Leon Synatschk
SOIL TYPE:	Knippa clay
ROW WIDTH:	38"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked twice in September, chiseled in November, bedded, and applied fertilizer in December
DATE PLANTED:	3-11-92, by hand, using JD80 Planter
DATE THINNED:	4-2-92, thinned by hand to approximately 5-6 plants/foot
PLOT LENGTH:	25'
FERTILIZER:	Applied 180 lb/A of 8-24-0-5 at bedding, and 120 lb/A of 82-0-0 prior to planting.
HERBICIDE:	None
INSECTICIDE:	3.5 lb/A of Counter (terbufos)
RAINFALL:	Approximately 20 inches
IRRIGATIONS:	1 application of approximately 2" at pre-boot stage
DATE HARVESTED:	7-28-92 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	62
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	5,612 lb/A; yields corrected to 13% moisture
TEST C.V.:	6.5 %

GENERAL INFORMATION: Outstanding yields were attained at this test site due to excellent soil conditions at planting and timely rainfall throughout the growing season. The season started with a full soil moisture profile from fall and winter rains. A near-optimum planting date was secured with excellent plant stands achieved after thinning. Due to timely rainfall, only one irrigation was applied to the test block (pre-boot stage) which insured continuous plant growth and development.

Flowering notes were taken at the appropriate time with days to 50% flower ranging from 75 to 86 days. The incidence of midge damage was low with only six plots having minimal damage. Bird damage was not significant. Lodging was not observed in the test block.

The test mean yield was 5,612 lb/A compared to the past five-year average of 4,950 lb/A. Twenty-two hybrids in the test produced over 6,000 lb/A.

Table 4A. GRAIN SORGHUM PERFORMANCE TEST; HONDO, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
A1 x GR116-90M34 8118	Tx. Agri. Exp. Stat.(GP) Pioneer Hi-Bred Int., Inc.	Wt Bz	R P	ML L	83 84	54 54	8 6	59.2 60.1	14.0 14.0	6740 6728	A A
ATx2752 x RTx430 857	Tx. Agri. Exp. Stat. Cargill Hybrid Seeds	Bz Bz	P P	ML ML	82 83	50 48	5 6	59.7 59.1	13.9 13.8	6686 6619	A-B A-C
8313	Pioneer Hi-Bred Int., Inc.	Bz	P	ML	80	47	5	60.1	14.1	6607	A-D
2665	Northrup King Co.	R	*	ML	81	45	6	58.9	13.6	6580	A-D
DEKALB DK-56 dk 790E	DEKALB Plant Genetics DOUGLASS W. KING CO, INC	R R	P P	ML ML	83 84	54 49	9 9	61.4 57.4	14.4 13.5	6478 6406	A-E A-F
HSC Wings ICI/Garst 5319	HyPerformer Seed Co. ICI Seeds (Garst Seed Co.)	Bz Bz	* P	ML ML	83 82	50 50	6 7	59.5 58.7	13.8 13.7	6361 6320	A-F A-G
1552	Delta and Pine Land Co.	Bz	P	M	82	50	8	60.1	14.1	6319	A-G
HM 2250 837	Harvest Master Seed Co. Cargill Hybrid Seeds	Bz Bz	R P	ML ML	82 83	51 50	6 8	58.6 60.1	13.9 13.9	6259 6254	A-H A-H
ATx378 x RTx430 A807 x R7730	Tx. Agri. Exp. Stat. Tx. Agri. Exp. Stat.(DR)	Bz Bz	P P	ML ML	82 82	57 52	7 10	58.5 59.1	13.6 14.4	6189 6186	A-I A-J
ORO Amigo A1 x GR108-90M24	ORO Hybrids-R.C. Young Tx. Agri. Exp. Stat.(GP)	Bz Rt	P P	ML ML	81 83	51 57	6 7	58.7 60.3	13.6 14.6	6174 6158	A-J A-K
ATx631 x R8511 F-524	Tx. Agri. Exp. Stat.(FM) Frontier Hybrids, Inc.	Wt Bz	T T	ML M	87 82	58 51	8 7	58.2 59.2	14.6 13.7	6126 6094	A-K A-K
ICI 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	84	49	8	56.1	13.3	6083	A-K
ORO EXP. 9211 T-E Ranger	ORO Hybrids-R.C. Young Taylor-Evans Seed Co.	Bz R	P P	ML M	83 82	52 50	6 9	59.1 58.0	13.9 13.9	6058 6005	A-L A-L
8310 W-902-W	Pioneer Hi-Bred Int., Inc. GEORGE WARNER SEED CO.	R Wt	R T	ML ML	81 86	52 56	8 7	60.9 59.9	14.1 14.1	5972 5902	B-M C-N
1506	Delta and Pine Land Co.	Ct	P	M	81	56	10	60.0	14.3	5899	C-N
A1 x GR108-90M31 CHECK	Tx. Agri. Exp. Stat.(GP) Tx. Agri. Exp. Stat.	Rt R	R P	ML M	84 83	51 51	5 6	60.6 59.4	14.6 13.6	5893 5872	C-N D-N
ATx2752 x GR107A-90M19 ATx2792 x Tx2783	Tx. Agri. Exp. Stat.(GP) Tx. Agri. Exp. Stat.	Rt R	P P	ML ML	83 83	50 51	7 5	58.6 57.4	13.7 13.6	5832 5756	E-N E-O
HSC 91HSC-17	HyPerformer Seed Co.	Bz	*	M	84	52	4	60.1	14.0	5735	E-O

Table 4A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
1558	Delta and Pine Land Co.	Rt	P	M	82	50	7	59.3	13.7	5708	F-P
GW2789X	Crosbyton Seed Co., Inc.	Bz	P	L	85	50	4	57.3	13.7	5609	G-Q
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	83	49	6	59.5	14.4	5606	G-Q
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	78	46	9	53.6	12.9	5580	G-Q
T-E Sonora	Taylor-Evans Seed Co.	Rt	P	M	83	49	7	58.5	13.5	5551	H-Q
ATxARG-1 x R8505 dk 785E	Tx. Agri. Exp. Stat.(FM) DOUGLASS W. KING CO, INC	Wt	T	M	83	52	7	59.1	13.8	5535	H-R
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	82	48	7	56.5	13.1	5507	I-R
A603	ASGROW SEED CO.	R	P	ML	82	52	10	58.4	13.8	5442	J-S
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	83	51	7	60.2	14.7	5423	K-S
HSC Cherokee	HyPerformer Seed Co.	R	*	M	81	50	7	57.7	13.7	5340	L-T
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	52	8	56.2	13.5	5257	M-U
ORO Hombre	ORO Hybrids-R.C. Young	R	P	ML	82	45	4	52.8	12.6	5233	N-U
HM 2280	Harvest Master Seed Co.	R	R	ML	82	50	6	58.0	13.6	5227	N-U
X10216	Cargill Hybrid Seeds	Bz	P	M	79	46	8	57.3	13.0	5200	N-U
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	82	50	7	57.6	13.5	5199	N-U
TS-488	TEXAS SEED CO., INC.	Bz	R	M	82	49	6	58.0	13.5	5159	N-U
GW4850X	Crosbyton Seed Co., Inc.	Bz	P	M	80	50	11	56.4	13.5	5062	O-V
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	83	52	10	58.5	14.0	4992	P-W
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	R	ML	83	49	6	59.8	14.2	4970	Q-W
GW6062X	Crosbyton Seed Co.,	R	P	L	81	46	8	57.6	13.5	4872	Q-W
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	87	57	8	58.7	14.2	4812	R-W
8195	Pioneer Hi-Bred Int., Inc.	Bz	P	L	85	46	6	50.7	12.2	4768	S-W
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	85	53	7	58.8	13.9	4754	S-W
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	86	46	4	54.7	13.6	4720	S-W
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	83	46	7	56.5	13.7	4693	T-W
HM 2000	Harvest Master Seed Co.	Rt	R	ME	77	44	6	57.0	13.4	4613	T-W
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	86	49	5	56.6	13.5	4606	U-W
KS 737	Northrup King Co.	R	*	ML	77	49	9	57.2	13.2	4569	U-W
KS 714Y	Northrup King Co.	C	*	M	79	49	9	57.3	13.4	4364	V-X

Table 4A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
A35 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	84	49	7	58.2	14.4	4288	W-X
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ME	75	52	9	54.5	13.5	3753	X

Test Mean = 5,612 Test C. V. = 6.5 LSD .05 = 592.9

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

* Conlee Rustler and DEKALB DK-37 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 4B. Three-year summary, Grain Sorghum Performance Test, Hondo, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	1	6740	--	--	--	--
8118	Pioneer Hi-Bred Int., Inc.	2	6728	--	--	--	--
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	3	6686	5	5828	58	4339
857	Cargill Hybrid Seeds	4	6619	11	5703	--	--
8313	Pioneer Hi-Bred Int., Inc.	5	6607	14	5613	13	5240
2665	Northrup King Co.	6	6580	9	5756	--	--
DEKALB DK-56	DEKALB Plant Genetics	7	6478	47	5004	--	--
dk 790E	DOUGLASS W. KING CO, INC	8	6406	--	--	--	--
HSC Wings	HyPerformer Seed Co.	9	6361	8	5758	6	5415
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	10	6320	2	5983	--	--
1552	Delta and Pine Land Co.	11	6319	--	--	--	--
HM 2250	Harvest Master Seed Co.	12	6259	7	5772	--	--
837	Cargill Hybrid Seeds	13	6254	12	5654	--	--
ATx378 x RTx430	Tx. Agri. Exp. Stat.	14	6189	6	5783	24	4890
A807 x R7730	Tx. Agri. Exp. Stat.(DR)	15	6186	--	--	--	--
ORO Amigo	ORO Hybrids-R.C. Young	16	6174	20	5504	25	4885
A1 x GR108-90M24	Tx. Agri. Exp. Stat.(GP)	17	6158	--	--	--	--
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	18	6126	24	5424	23	4928
F-524	Frontier Hybrids, Inc.	19	6094	10	5714	28	4816
ICI 5323	ICI Seeds (Garst Seed Co.)	20	6083	--	--	--	--
ORO EXP. 9211	ORO Hybrids-R.C. Young	21	6058	--	--	--	--
T-E Ranger	Taylor-Evans Seed Co.	22	6005	44	5021	7	5412
8310	Pioneer Hi-Bred Int., Inc.	23	5972	--	--	--	--
W-902-W	GEORGE WARNER SEED CO.	24	5902	--	--	--	--
1506	Delta and Pine Land Co.	25	5899	15	5603	--	--
A1 x GR108-90M31	Tx. Agri. Exp. Stat.(GP)	26	5893	--	--	--	--
CHECK (Rustler)		27	5872	4	5840	43	4560
ATx2752 x GR107A-90M19	Tx. Agri. Exp. Stat.(GP)	28	5832	--	--	--	--
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	29	5756	--	--	--	--
HSC 91HSC-17	HyPerformer Seed Co.	30	5735	--	--	--	--

Table 4B. Hondo, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
1558	Delta and Pine Land Co.	31	5708	26	5382	16	5125
GW2789X	Crosbyton Seed Co., Inc.	32	5609	-	-	-	-
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	33	5606	-	-	-	-
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	34	5580	40	5100	52	4436
T-E Sonora	Taylor-Evans Seed Co.	35	5551	-	-	-	-
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	36	5535	-	-	-	-
dk 785E	DOUGLASS W. KING CO, INC	37	5519	-	-	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	38	5507	29	5312	44	4531
A603	ASGROW SEED CO.	39	5442	-	-	-	-
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	40	5423	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	41	5340	28	5340	36	4651
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	42	5257	-	-	-	-
ORO Hombre	ORO Hybrids-R.C. Young	43	5233	41	5090	-	-
HM 2280	Harvest Master Seed Co.	44	5227	30	5293	-	-
X10216	Cargill Hybrid Seeds	45	5200	-	-	-	-
T-E Y-75	Taylor-Evans Seed Co.	46	5199	25	5395	47	4486
TS-488	TEXAS SEED CO., INC.	47	5159	21	5492	1	5779
GW4850X	Crosbyton Seed Co., Inc.	48	5062	-	-	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	49	4992	57	4606	-	-
A1 x Tx2862	Tx. Agri. Exp. Stat.	50	4970	-	-	-	-
GW6062X	Crosbyton Seed Co., Inc.	51	4872	-	-	-	-
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	52	4812	-	-	-	-
8195	Pioneer Hi-Bred Int., Inc.	53	4768	35	5220	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	54	4754	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	55	4720	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	56	4693	-	-	-	-
HM 2000	Harvest Master Seed Co.	57	4613	-	-	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	58	4606	62	3347	-	-
KS 737	Northrup King Co.	59	4569	48	4952	-	-
KS 714Y	Northrup King Co.	60	4364	46	5010	35	4681

Table 4B. Hondo, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A35 x Gr107A-90M20	Tx. Agri. Exp. Stat.(GP)	61	4288	61	4303	—	—
CHECK (DK-37)		62	3753	45	5014	—	—
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	—	—	1	6315	3	5629
dk 760	DOUGLASS W. KING CO, INC	—	—	3	5938	26	4869
847	Cargill Hybrid Seeds	—	—	13	5639	5	5548
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	—	—	16	5579	61	4095
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	—	—	19	5527	65	3628
dk 776	DOUGLASS W. KING CO, INC	—	—	22	5479	4	5556
dk 780	DOUGLASS W. KING CO, INC	—	—	36	5191	2	5696
ATx631 x R8505	Tx. Agri. Exp. Stat.(FM)	—	—	38	5155	60	4327
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	—	—	49	4939	57	4369
AAArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	—	—	53	4755	31	4759
8379	Pioneer Hi-Bred Int., Inc.	—	—	56	4656	18	5038
Number Entries:		62		62		65	
Test Mean Yield:			5612		5235		4778

Note: Hybrids with the same yields were ranked by computer.

TABLE 5. AGRONOMIC AND TEST INFORMATION: DANEVANG

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	E. E. Berndt Farm - Danevang, Texas
COOPERATORS:	E. E. Berndt, Dennis Pietsch, John Cosper, Randy Gaas, and Leon Synatschk
SOIL TYPE:	Lake Charles clay
ROW WIDTH:	40"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Shredded stalks, disked, bedded. Hipped two more times prior to planting
DATE PLANTED:	3-23-92: hand-dropped behind 8 row International planter
DATE THINNED:	4-16-92; thinned to approximately 6 plants/foot
PLOT LENGTH:	23'
FERTILIZER:	513 lb/A of 21-7-3-1.5 S-.05 Zn
HERBICIDE:	None
INSECTICIDE:	5.0 lb/A Furadan (carbofuran) at planting
RAINFALL:	Approximately 52 inches from January to harvest
IRRIGATIONS:	None
DATE HARVESTED:	7-29-92 with MF 8 plot combine
SIZE HARVESTED PLOT:	2 Rows, 23 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	70
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	4,676 lb/A; yields corrected to 13% moisture
TEST C.V.:	12.7 percent

GENERAL INFORMATION: Good yields were achieved at this test site despite adverse conditions during the growing season. Prolonged periods of rainfall from October to planting delayed normal field operations thus delaying planting until March 23. Although seedling emergence was rapid, continued rainfall delayed cultivation and sidedressing of fertilizer until late-April. Herbicide was not applied to the test block. Weeds were controlled by hand-hoeing. Timely rainfall during the flowering stage insured grain fill as reflected in the following Table.

The test mean yield was 4,676 lb/A compared to the past 3-year average of 4,813 lb/A. Midge was observed but was not a problem.

Table 5A. GRAIN SORGHUM PERFORMANCE TEST; DANEVANG, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head		Midge		Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
							Exser- tion Inches	% Lodge	Dam- age %	% Stand				
2665	Northrup King Co.	R	*	ML	78	50	6	0.7	0.0	98.3	58.4	14.5	6246	A
ICI 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	79	52	9	0.0	0.0	98.3	54.1	13.9	6009	A-B
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	R	P	ML	79	53	5	0.0	10.0	96.7	57.4	14.2	5930	A-C
8310	Pioneer Hi-Bred Int., Inc.	R	R	ML	81	55	7	0.0	0.0	100.0	56.8	14.4	5914	A-C
Quest	ORO Hybrids-R.C. Young	Bz	P	ML	77	52	8	0.0	0.7	100.0	56.4	14.0	5756	A-D
F-524	Frontier Hybrids, Inc.	Bz	T	M	78	54	6	0.3	0.0	98.3	56.9	14.4	5727	A-D
NC+ 472	NC+ Hybrids	Bz	*	M	79	49	7	0.0	0.0	100.0	55.9	13.9	5633	A-E
HSC 91HSC-17	HyPerformer Seed Co.	Bz	*	ML	82	52	5	0.0	0.0	100.0	57.0	14.1	5613	A-E
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	77	50	7	0.0	0.0	95.0	54.2	13.3	5603	A-E
W-917-E	GEORGE WARNER SEED CO.	R	R	ML	79	59	7	1.3	0.0	100.0	58.0	14.8	5548	A-F
dk 785E	DOUGLASS W. KING CO, INC	R	P	M	79	52	7	0.7	0.0	100.0	56.5	13.9	5544	A-F
W-876DR	GEORGE WARNER SEED CO.	Bz	R	ML	79	58	7	0.0	0.0	98.3	57.0	14.2	5421	A-G
8313	Pioneer Hi-Bred Int., Inc.	Bz	P	L	80	48	4	0.0	0.3	100.0	56.8	14.2	5418	A-H
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	73	57	11	1.7	0.0	98.3	57.9	14.6	5399	A-H
Rustler	Conlee Seed Co., Inc.	R	P	M	80	54	7	0.0	0.0	95.0	57.0	14.0	5378	A-H
ATx2752 x GR108-90M28	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	82	52	6	0.0	0.0	96.7	59.5	14.3	5299	A-I
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	79	54	7	0.0	0.0	96.7	56.7	14.2	5296	A-I
dk 790E	DOUGLASS W. KING CO, INC	R	P	ML	80	58	7	3.3	0.0	100.0	57.5	14.3	5213	A-J
HSC Cherokee	HyPerformer Seed Co.	R	*	M	81	52	7	0.0	0.0	98.3	58.4	14.0	5198	A-J
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	80	62	7	16.0	0.0	95.0	56.9	14.1	5145	A-J
8118	Pioneer Hi-Bred Int., Inc.	Bz	P	L	83	58	6	0.0	0.0	95.0	57.8	14.7	5117	A-K
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	80	53	7	0.0	0.0	100.0	57.8	14.2	5110	A-K
A807 x TAM428	Tx. Agri. Exp. Stat.	Rt	P	ML	81	55	6	0.0	0.0	93.3	58.4	15.4	5075	A-K
ORO Ultra	ORO Hybrids-R.C. Young	Bz	P	ML	80	52	7	0.0	0.0	93.3	55.9	13.6	5060	A-K
HSC Wings	HyPerformer Seed Co.	Bz	*	ML	81	53	6	0.0	0.0	100.0	57.0	14.1	5056	A-K
GSC 3285X	Gro Agri Seed Co.	Bz	P	ML	81	56	7	0.0	0.0	100.0	57.8	14.3	5037	B-K
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	82	55	9	1.0	0.0	98.3	56.2	14.7	5034	B-K
GSC 3605	Gro Agri Seed Co.	W	P	ML	81	57	8	0.0	0.0	98.3	56.6	15.8	5024	B-L
W-816-E	GEORGE WARNER SEED CO.	R	R	M	79	52	6	0.0	0.0	96.7	57.2	14.0	5017	B-L
HSC 92HSC-01	HyPerformer Seed Co.	Bz	*	M	80	51	6	0.0	0.0	100.0	57.0	13.9	4971	B-L

Table 5A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Lodge	Midge Dam- age %	% Stand	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
GSC 3260X	Gro Agri Seed Co.	Bz	P	ML	80	52	8	0.0	0.0	100.0	56.8	14.1	4962	B-L
1710	Delta and Pine Land Co.	Bz	P	ML	80	53	6	0.0	0.0	100.0	56.5	14.2	4957	B-L
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	82	52	7	0.0	0.0	100.0	57.4	14.1	4947	B-L
NC+ 7B90	NC+ Hybrids	Bz	*	M	80	53	6	0.3	0.0	100.0	55.1	13.8	4908	B-L
CHECK	Tx. Agri. Exp. Stat.	R	R	ML	80	52	7	0.0	0.0	93.3	56.5	13.9	4875	B-L
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	Bz	P	ML	81	52	7	0.0	0.0	96.7	55.7	13.6	4871	B-L
GSC 3157	Gro Agri Seed Co.	Bz	P	ML	80	50	8	0.0	0.0	100.0	55.0	13.7	4834	B-L
GSC 1299	Gro Agri Seed Co.	Bz	P	ML	80	52	8	0.0	0.0	98.3	58.4	14.5	4833	B-L
TS-488	TEXAS SEED CO., INC.	Bz	R	M	81	53	7	0.0	0.0	100.0	56.2	14.2	4817	B-L
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	80	52	7	0.0	0.0	100.0	56.3	13.9	4764	C-M
ATx626 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	80	60	8	1.0	0.0	100.0	58.2	14.6	4763	C-M
837	Cargill Hybrid Seeds	Bz	P	ML	81	54	7	0.0	0.0	98.3	57.0	14.4	4689	D-N
AG 233	Pogue Seed Co.	Bz	R	ML	81	53	6	0.0	0.0	100.0	56.8	14.1	4663	D-N
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	79	51	8	0.0	0.0	91.7	55.2	13.4	4625	D-O
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	81	57	10	0.0	0.0	95.0	57.2	14.5	4562	D-P
8195	Pioneer Hi-Bred Int., Inc.	Bz	P	L	82	50	8	0.0	0.0	100.0	53.4	13.8	4545	D-P
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	Rt	P	M	83	53	5	0.0	0.0	95.0	56.0	14.7	4543	D-P
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	81	56	5	0.0	0.0	93.3	58.0	14.1	4485	E-P
T-E Sonora	Taylor-Evans Seed Co.	Rt	P	M	81	52	9	0.0	0.0	100.0	56.6	13.8	4431	E-P
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	76	67	9	15.0	0.0	96.7	58.6	14.7	4375	F-Q
1558	Delta and Pine Land Co.	Rt	P	M	82	50	7	0.0	0.0	100.0	57.6	14.1	4251	G-Q
A807 x R8503	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	81	52	6	0.0	0.7	96.7	56.5	14.8	4228	G-Q
KS 737	Northrup King Co.	R	*	ML	76	52	10	1.7	0.0	100.0	57.0	14.3	4224	G-Q
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	81	51	6	0.0	0.0	96.7	58.7	14.5	4194	H-Q
1552	Delta and Pine Land Co.	Bz	P	M	80	51	6	0.0	0.0	95.0	57.8	14.2	4147	I-R
GSC 1290E	Gro Agri Seed Co.	Bz	P	ML	82	51	7	0.0	0.0	98.3	56.6	14.0	4007	J-R
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	82	52	6	0.0	0.0	96.7	56.8	14.7	3919	K-S
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	50	4	0.0	0.0	93.3	56.6	14.4	3813	L-T
857	Cargill Hybrid Seeds	Bz	P	ML	82	50	7	0.0	0.0	100.0	54.7	13.9	3809	L-T
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	85	54	6	0.0	0.0	95.0	57.1	14.5	3614	M-T

Table 5A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head		Midge		Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
							Exser- tion Inches	% Lodge	Dam- age %	% Stand				
A1 x GR108-90M30	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	83	52	6	0.0	0.0	96.7	57.9	14.2	3604	M-T
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	83	53	7	0.0	1.0	90.0	56.7	14.3	3559	N-T
T-E Ranger	Taylor-Evans Seed Co.	R	P	M	83	52	8	0.0	0.0	100.0	57.8	13.9	3435	O-U
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	86	53	8	0.0	0.0	95.0	55.5	14.5	3409	P-U
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	82	48	9	0.0	0.0	95.0	52.6	13.4	3238	Q-U
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ML	85	61	6	0.0	0.0	93.3	52.6	14.8	3001	R-U
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	R	ML	81	53	6	0.0	0.0	90.0	57.5	14.3	2815	S-U
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	85	58	7	0.0	0.0	96.7	53.8	14.1	2753	T-U
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	85	61	7	0.0	0.0	91.7	53.4	14.5	2666	T-U
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	85	62	6	0.7	0.0	86.7	50.5	16.2	2369	U
Test Mean = 4,676 Test C. V. = 12.7 LSD .05 = 961.1														

⌘ Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

* Douglass King dk780 and George Warner W-902-W were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 5B. Three-year summary, Grain Sorghum Performance Test, Danevang, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
2665	Northrup King Co.	1	6246	13	4856	35	4952
ICI 5323	ICI Seeds (Garst Seed Co.)	2	6009	-	-	-	-
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	3	5930	-	-	-	-
8310	Pioneer Hi-Bred Int., Inc.	4	5914	-	-	-	-
Quest	ORO Hybrids-R.C. Young	5	5756	-	-	-	-
F-524	Frontier Hybrids, Inc.	6	5727	45	4167	-	-
NC+ 472	NC+ Hybrids	7	5633	25	4666	40	4920
HSC 91HSC-17	HyPerformer Seed Co.	8	5613	-	-	-	-
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	9	5603	43	4265	83	3755
W-917-E	GEORGE WARNER SEED CO.	10	5548	-	-	6	5438
dk 785E	DOUGLASS W. KING CO, INC	11	5544	-	-	-	-
W-876DR	GEORGE WARNER SEED CO.	12	5421	-	-	25	5042
8313	Pioneer Hi-Bred Int., Inc.	13	5418	10	4876	21	5173
DEKALB DK-37	DEKALB Plant Genetics	14	5399	41	4351	71	4365
Rustler	Conlee Seed Co., Inc.	15	5378	7	4929	60	4651
ATx2752 x GR108-90M28	Tx. Agri. Exp. Stat.(GP)	16	5299	-	-	-	-
ORO Amigo	ORO Hybrids-R.C. Young	17	5296	4	4990	55	4741
dk 790E	DOUGLASS W. KING CO, INC	18	5213	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	19	5198	18	4767	32	4965
ATx378 x RTx430	Tx. Agri. Exp. Stat.	20	5145	58	2958	34	4961
8118	Pioneer Hi-Bred Int., Inc.	21	5117	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	22	5110	30	4591	47	4839
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	23	5075	-	-	-	-
ORO Ultra	ORO Hybrids-R.C. Young	24	5060	33	4562	-	-
HSC Wings	HyPerformer Seed Co.	25	5056	8	4922	5	5456
GSC 3285X	Gro Agri Seed Co.	26	5037	-	-	-	-
DEKALB DK-56	DEKALB Plant Genetics	27	5034	49	4040	62	4606
GSC 3605	Gro Agri Seed Co.	28	5024	-	-	-	-
W-816-E	GEORGE WARNER SEED CO.	29	5017	-	-	-	-
HSC 92HSC-01	HyPerformer Seed Co.	30	4971	-	-	-	-
GSC 3260X	Gro Agri Seed Co.	31	4962	-	-	-	-
1710	Delta and Pine Land Co.	32	4957	2	5009	14	5280

Table 5B. Danevang, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
T-E Y-75	Taylor-Evans Seed Co.	33	4947	36	4508	4	5481
NC+ 7B90	NC+ Hybrids	34	4908	15	4818	-	-
CHECK (dk 780)		35	4875	20	4756	1	5736
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	36	4871	5	4967	-	-
GSC 3157	Gro Agri Seed Co.	37	4834	-	-	-	-
GSC 1299	Gro Agri Seed Co.	38	4833	-	-	-	-
TS-488	TEXAS SEED CO., INC.	39	4817	35	4520	36	4943
ATx399 x RTx430	Tx. Agri. Exp. Stat.	40	4764	40	4360	58	4674
ATx626 x 89CC443	Tx. Agri. Exp. Stat.(DR)	41	4763	-	-	-	-
837	Cargill Hybrid Seeds	42	4689	-	-	-	-
AG 233	Pogue Seed Co.	43	4663	-	-	-	-
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	44	4625	54	3853	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	45	4562	-	-	-	-
8195	Pioneer Hi-Bred Int., Inc.	46	4545	55	3844	-	-
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	47	4543	-	-	-	-
ORO EXP. 9211	ORO Hybrids-R.C. Young	48	4485	-	-	-	-
T-E Sonora	Taylor-Evans Seed Co.	49	4431	-	-	-	-
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	50	4375	26	4664	-	-
1558	Delta and Pine Land Co.	51	4251	27	4640	11	5318
A807 x R8503	Tx. Agri. Exp. Stat.(DR)	52	4228	-	-	-	-
KS 737	Northrup King Co.	53	4224	37	4496	37	4938
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	54	4194	-	-	-	-
1552	Delta and Pine Land Co.	55	4147	31	4568	-	-
GSC 1290E	Gro Agri Seed Co.	56	4007	-	-	-	-
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	57	3919	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	58	3813	-	-	-	-
857	Cargill Hybrid Seeds	59	3809	39	4379	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	60	3614	-	-	-	-
A1 x GR108-90M30	Tx. Agri. Exp. Stat.(GP)	61	3604	-	-	-	-
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	62	3559	-	-	-	-
T-E Ranger	Taylor-Evans Seed Co.	63	3435	-	-	38	4933
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	64	3409	-	-	-	-

Table 5B. Danevang, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	65	3238	-	-	-	-
CHECK (W-902-W)		66	3001	-	-	-	-
A1 x Tx2862	Tx. Agri. Exp. Stat.	67	2815	-	-	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	68	2753	-	-	-	-
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	69	2666	-	-	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	70	2369	-	-	-	-
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	-	-	1	5274	14	5280
SG-942	Garrison & Townsend, Inc.	-	-	3	5004	16	5260
GS 712	ASGROW SEED CO.	-	-	6	4942	59	4655
X6030X	ASGROW SEED CO.	-	-	9	4884	74	4289
847	Cargill Hybrid Seeds	-	-	11	4862	8	5368
dk 760	DOUGLASS W. KING CO, INC.	-	-	12	4856	52	4788
GSC 3148	Gro Agri Seed Co.	-	-	14	4849	78	4149
8379	Pioneer Hi-Bred Int., INC.	-	-	16	4786	50	4797
GSC 3150	Gro Agri Seed Co.	-	-	21	4716	65	4541
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	22	4688	9	5350
NC+ 7B81E	NC+ Hybrids	-	-	23	4685	13	5298
T-E 77E	Taylor-Evans Seed Co.	-	-	29	4592	17	5258
GSC 1313	Gro Agri Seed Co.	-	-	38	4494	29	5012
A1 x Tx2783	Tx. Agri. Exp. Stat.(DR)	-	-	44	4251	19	5208
ORO G Xtra	ORO Hybrids-R.C. Young	-	-	46	4078	63	4584
ORO Baron	ORO Hybrids-R.C. Young	-	-	48	4070	43	4885
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	50	4034	72	4347
A1 x R8505	Tx. Agri. Exp. Stat.(DR)	-	-	53	3936	54	4760
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	-	-	59	2468	73	4338
Number Entries:		70		61		86	
Test Mean Yield:			4676		4387		4792

Note: Hybrids with the same yields were ranked by computer.

TABLE 6. AGRONOMIC AND TEST INFORMATION: COLLEGE STATION

TEST:	1992 Irrigated Grain Sorghum Performance Test
LOCATION:	Texas A&M University Farm, College Station, Texas
COOPERATORS:	F. Miller, T. Dusek, D. Pietsch, R. Gaas and L.Synatschk
SOIL TYPE:	Miller clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Grain sorghum
LAND PREPARATION:	Shredded, disked, moldboarded, disked, bedded, planted
DATE PLANTED:	3-24-92, cone planter
PLOT LENGTH:	17' 8"
FERTILIZER:	80-80-0 preplant, sidedress 100-0-0 on May 7
HERBICIDE:	1 lb/A Milogard 4L (propazine) + 2.5 lb/A Ramrod 4L (propachlor) on 3-24
INSECTICIDE:	7 lb/A Furadan 15G at planting; applied .25lb/A A.I. of Lorsban for yellow sugarcane aphids; two aerial sprayings of Asana on June 16 & 19 at label rate for midge
RAINFALL:	March = 1.00", April = 4.20", May = 10.3", June = 6.40", July = 2.30", August = 0.7" Total = 24.9
IRRIGATIONS:	1 application of approximately 3" on 7-13
DATE HARVESTED:	8-10-92
SIZE HARVESTED PLOT:	2 rows 17' 8"
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	53
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	Estimated to be between 70,000 and 90,000 plants/A
TEST MEAN:	6,000 lb/A; yields corrected to 13% moisture
TEST C.V.:	8.7 percent

GENERAL STATEMENT: Yields obtained in 1992 at the College Station test site were generally representative of those obtained by local farmers in the area. Few production problems were encountered in the growing season. The year was cooler than normal and rainfall was well distributed. Adequate soil moisture was available at planting although the seedbed was badly eroded from winter flooding. Distribution of rainfall was good from floral differentiation through black layer when no more rain was received until harvest. The trial was harvested with an experimental plot harvester. The two-row plots significantly reduced the coefficient of variation for the trial. Because of good radiation levels, good moisture conditions, and cooler than normal temperatures, yields were good on shorter than normal plants. The test mean yield of 6,000 lb/A and a C.V. of 8.7% suggests a good trial.

Disease incidence was not adequate to merit readings. Sorghum midge were observed in the test block and controlled by two aerial applications of an insecticide. Performance of the white grain, tan plant color hybrids was excellent at this location. Leaf quality was uniformly superior on the tan plant hybrids. Two hybrids in the trial had tan plant and red translucent grain which appeared well adapted.

Table 6A. GRAIN SORGHUM PERFORMANCE TEST; COLLEGE STATION, TEXAS 1992

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Panicle Length Inches 7	Panicle Exser- tion Inches 8	Desir- ability Rating 5	Test Weight lb/bu 9	Mois- ture % 10	Yield lb/A 11	Stat. Sig., 0.05 6
ATx635 x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	82	61	9	8	1.6	59.9	14.4	7928	A
A1 x Tx2783	Tx. Agri. Exp. Stat.	R	P	ML	80	58	9	6	1.4	56.8	13.9	7485	A-B
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	82	52	10	6	1.4	55.0	13.6	7193	A-C
837	Cargill Hybrid Seeds	Bz	P	ML	79	51	11	7	1.6	54.1	13.7	7153	A-C
ATx635 x 86EON361	Tx. Agri. Exp. Stat.(DR)	W	T	ML	78	68	12	12	1.8	57.8	14.7	7013	A-D
T-E Y-75	Taylor-Evans Seed Co.	R	P	M	79	51	9	7	1.7	55.9	13.3	6887	B-E
2665	Northrup King Co.	R	P	ML	78	48	9	6	2.5	55.4	13.3	6865	B-E
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	78	52	8	6	1.9	55.8	13.3	6784	B-F
F-524	Frontier Hybrids, Inc.	Bz	T	M	78	54	8	6	1.8	55.4	13.7	6738	B-G
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	82	55	10	7	1.1	57.1	13.9	6714	B-G
NC+ 573E	NC+ Hybrids	R	P	M	78	48	10	6	2.0	56.4	13.9	6649	B-H
1710	Delta and Pine Land Co.	Bz	P	ML	78	51	8	6	1.8	55.5	13.2	6610	B-H
857	Cargill Hybrid Seeds	Bz	P	ML	78	49	10	7	1.8	54.2	13.6	6558	B-H
SPB16908X	Seed Source, Inc.	Bz	P	M	80	52	11	7	1.8	52.3	13.2	6557	B-H
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	Wt	T	ML	79	53	10	9	1.4	57.1	13.5	6556	B-H
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	82	57	11	7	1.2	56.0	14.4	6537	B-H
Quest	ORO Hybrids-R.C. Young	Bz	P	ML	80	51	11	7	2.4	54.2	13.4	6506	B-H
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	Ct	P	ML	77	52	12	6	2.4	53.0	13.0	6443	C-I
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	84	58	10	6	1.3	55.9	14.6	6390	C-I
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	77	52	9	6	2.0	53.0	13.5	6381	C-I
1506	Delta and Pine Land Co.	Ct	P	M	77	57	12	10	2.2	56.3	14.0	6379	C-I
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	80	53	9	9	1.6	57.2	14.3	6370	C-I
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	R	R	ML	78	45	10	7	2.2	56.5	13.7	6301	C-J
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	W	T	L	78	55	11	7	1.4	56.2	13.5	6274	C-J
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	R	R	ML	78	51	11	6	2.5	55.6	13.8	6202	C-J
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	81	51	11	7	1.3	53.9	14.2	6202	C-J
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	79	49	9	7	2.2	51.7	13.0	6194	C-J
SPB01940X	Seed Source, Inc.	Bz	P	ML	79	48	11	7	2.5	50.2	12.4	6099	D-K
SPB011X	Seed Source, Inc.	Bz	P	M	81	52	10	7	2.1	53.2	13.5	6030	D-L
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	T	ML	82	51	12	7	1.4	53.8	13.3	6012	D-L

Table 6A. (CONTINUED)

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Panicle Length Inches 7	Head Exser- tion Inches 8	Desir- ability Rating 5	Test Weight lb/bu 9	Mois- ture % 10	Yield lb/A 11	Stat. Sig., 0.05 6
GW4850X	Crosbyton Seed Co., Inc.	Bz	P	M	77	52	10	9	2.2	54.8	13.3	5988	D-L
A1 x Tx2864	Tx. Agri. Exp. Stat.	W	P	ML	79	47	10	7	2.3	52.6	13.1	5901	E-L
NC+ 472	NC+ Hybrids	Bz	*	M	78	45	9	7	2.4	52.3	13.1	5846	E-M
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	R	P	ML	76	51	9	8	2.6	53.2	13.0	5840	E-M
1552	Delta and Pine Land Co.	Rt	P	M	77	52	9	7	1.5	55.7	14.0	5804	F-M
A1 x GR107A-90M19	Tx. Agri. Exp. Stat.(GP)	W	P	ML	78	54	11	8	1.9	54.4	13.8	5771	F-N
SPB14937	Seed Source, Inc.	Bz	P	M	79	54	10	7	2.5	52.8	13.2	5716	G-N
T-E 9121-X	Taylor-Evans Seed Co.	R	P	ML	78	57	8	6	1.7	51.9	13.7	5637	H-N
GW6062X	Crosbyton Seed Co., Inc.	R	P	L	76	49	12	8	2.3	55.7	13.8	5622	H-N
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	W	P	ML	77	53	10	7	2.1	53.2	13.3	5592	H-N
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	81	51	10	9	1.9	55.9	13.8	5400	I-O
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	R	P	ML	75	45	9	7	2.5	54.9	13.3	5398	I-O
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	78	58	10	8	1.9	54.0	14.0	5309	J-O
KS 737	Northrup King Co.	R	P	ML	75	52	11	10	2.8	53.8	13.2	5265	J-O
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	82	52	10	7	1.5	55.8	13.7	5260	J-O
KS 714Y	Northrup King Co.	C	P	M	77	51	11	8	3.2	53.7	13.1	5074	K-P
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	R	P	ML	79	55	12	7	2.2	56.7	14.3	5016	L-P
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	R	P	ML	76	63	10	11	2.9	55.4	15.7	4833	M-P
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	82	46	11	5	1.5	53.1	13.1	4756	N-P
ATx2801 x Tx2872	Tx. Agri. Exp. Stat.	W	P	ML	75	53	10	9	2.7	51.7	13.4	4528	O-P
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	82	45	10	6	1.7	52.8	13.1	4186	P
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	72	56	10	10	2.6	53.8	13.5	4156	P
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	R	P	ML	78	48	10	7	4.1	53.5	13.1	3117	Q

Test Mean = 6,000 Test C. V. = 8.7 LSD .05 = 841.5

Note 1: The ANOVA procedure was used for statistical analysis.

Table 6A. (CONTINUED)

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

- 1 Commercial check hybrids were not entered in the test. Hybrids that are commonly used in this area were already entered by commercial companies.
- 2 Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.
- 3 Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.
- 4 Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.
- 5 Dr. Fred Miller, Soil and Crop Sciences Department, Texas A & M University made the following desirability ratings: 1=very good 2=good 3=average 4=poor 5=very poor.
- 6 Duncan's multiple range test was used at the .05 level.

Table 6B. Three-year summary, Grain Sorghum Performance Test, College Station, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATx635 x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	1	7928	-	-	-	-
A1 x Tx2783	Tx. Agri. Exp. Stat.	2	7485	-	-	64	4155
A8618 x RT2783	Tx. Agri. Exp. Stat.(FM)	3	7193	15	4986	-	-
837	Cargill Hybrid Seeds	4	7153	6	5540	-	-
ATx635 x 86EON361	Tx. Agri. Exp. Stat.(DR)	5	7013	-	-	-	-
T-E Y-75	Taylor-Evans Seed Co.	6	6887	47	3777	44	5141
2665	Northrup King Co.	7	6865	48	3694	11	5660
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	8	6784	32	3997	38	5288
F-524	Frontier Hybrids, Inc.	9	6738	19	4748	13	5594
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	10	6714	-	-	-	-
NC+ 573E	NC+ Hybrids	11	6649	54	3128	-	-
1710	Delta and Pine Land Co.	12	6610	-	-	-	-
857	Cargill Hybrid Seeds	13	6558	44	3807	-	-
SPB16908X	Seed Source, Inc.	14	6557	-	-	-	-
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	15	6556	-	-	-	-
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	16	6537	13	5061	-	-
Quest	ORO Hybrids-R.C. Young	17	6506	-	-	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	18	6443	1	6225	1	6138
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	19	6390	5	5572	53	4932
ORO Amigo	ORO Hybrids-R.C. Young	20	6381	28	4203	32	5346
1506	Delta and Pine Land Co.	21	6379	9	5416	-	-
DEKALB DK-56	DEKALB Plant Genetics	22	6370	2	5885	56	4904
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	23	6301	46	3793	-	-
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	24	6274	-	-	-	-
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	25	6202	-	-	-	-
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	26	6202	-	-	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	27	6194	37	3874	30	5348
SPB01940X	Seed Source, Inc.	28	6099	-	-	-	-
SPB011X	Seed Source, Inc.	29	6030	-	-	-	-
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	30	6012	-	-	-	-

Table 6B. College Station, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
GW4850X	Crosbyton Seed Co., Inc.	31	5988	-	-	-	-
A1 x Tx2864	Tx. Agri. Exp. Stat.	32	5901	41	3840	-	-
NC+ 472	NC+ Hybrids	33	5846	-	-	-	-
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	34	5840	-	-	-	-
1552	Delta and Pine Land Co.	35	5804	-	-	35	5318
A1 x GR107A-90M19	Tx. Agri. Exp. Stat.(GP)	36	5771	39	3870	-	-
SPB14937	Seed Source, Inc.	37	5716	-	-	-	-
T-E 9121X	Taylor-Evans Seed Co.	38	5637	-	-	-	-
GW6062X	Crosbyton Seed Co., Inc.	39	5622	-	-	-	-
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	40	5592	3	5880	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	41	5400	24	4453	-	-
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	42	5398	-	-	-	-
ATx378 x RTx430	Tx. Agri. Exp. Stat.	43	5309	16	4981	6	5787
KS 737	Northrup King Co.	44	5265	59	1891	41	5237
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	45	5260	-	-	-	-
KS 714Y	Northrup King Co.	46	5074	60	1750	-	-
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	47	5016	33	3975	-	-
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	48	4833	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	49	4756	-	-	-	-
ATx2801 x Tx2872	Tx. Agri. Exp. Stat.	50	4528	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	51	4186	-	-	-	-
DEKALB DK-37	DEKALB Plant Genetics	52	4156	23	4564	-	-
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	53	3117	-	-	-	-
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	-	-	10	5276	39	5277
ATx631 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	12	5167	33	5339
AAArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	17	4956	61	4476
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	-	-	18	4829	37	5298
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	22	4571	3	5894
847	Cargill Hybrid Seeds	-	-	26	4253	31	5347
Rustler	Conlee Seed Co., Inc.	-	-	27	4241	17	5550

Table 6B. College Station, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ORO G Xtra	ORO Hybrids-R.C. Young	-	-	29	4175	20	5512
dk 780	DOUGLASS W. KING CO, INC	-	-	34	3927	14	5577
SG-942	Garrison & Townsend, Inc.	-	-	35	3908	2	6011
ORO Baron	ORO Hybrids-R.C. Young	-	-	36	3883	52	4944
HSC Cherokee	HyPerformer Seed Co.	-	-	42	3834	21	5507
HSC Wings	HyPerformer Seed Co.	-	-	43	3823	26	5406
T-E 76	Taylor-Evans Seed Co.	-	-	49	3654	4	5806
dk 760	DOUGLASS W. KING CO, INC	-	-	51	3475	7	5760
dk 776	DOUGLASS W. KING CO, INC	-	-	52	3232	29	5352
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	-	-	57	2639	45	5137
Number of Entries:		53		60		70	
Test Mean Yield:		6000		4228		5119	

Note: Hybrids with the same yields were ranked by computer.

TABLE 7.

AGRONOMIC AND TEST INFORMATION: THRALL

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	Stiles Farm Foundation, Thrall, Texas
COOPERATORS:	Dennis Pietsch, Cloyce Coffman, Randy Gaas, Leon Synatschk, and Calvin Rinn
SOIL TYPE:	Burleson clay
ROW WIDTH:	38"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Shredded, bedded, re-bed, sprayed Bladex at label rate for winter weed control
DATE PLANTED:	5-7-92, hand dropped behind a JD7300 Max Emerge 2
DATE THINNED:	N/A
PLOT LENGTH:	25'
FERTILIZER:	120-20-0 preplant
HERBICIDE:	Treated with Atrazine + Prowl Tank Mix at label rate, when sorghum was 12" tall
INSECTICIDE:	Two aerial applications of Asana for midge control
RAINFALL:	March = 3.08", April = 1.64", May = 8.62", June = 5.29", July = 0.58", August = .67" Total = 19.88"
IRRIGATIONS:	None
DATE HARVESTED:	8-25-92 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	74
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	3,308 lb/A; yields corrected to 13% moisture
TEST C. V.:	13.0 %

GENERAL INFORMATION: Seventy-four hybrids were entered by seventeen commercial companies and the Texas Agriculture Experiment Station at this site. This test is representative of conditions in the Southern Blacklands of Texas. As was the case in this entire region, prolonged periods of rainfall delayed normal field operations thus delaying planting. The test was planted on March 13th in an excellent seedbed prepared early. This is approximately ten days later than the optimum planting date for this area. Due to unexplainable reasons, abnormal seedling emergence resulted in very poor stands. Upon examination, it was determined that germination was very erratic within plots and between plots in each replication. Some seeds germinated and then died while other seedlings emerged but were very weak and eventually died. Plant samples were brought back to College Station but no definite determination was made for this occurrence.

On May 7th, the test was replanted using the same beds. Roundup was used after planting to kill any remaining plants from the initial planting. Approximately ten grams of seed were planted to each row. Seedling emergence was excellent and plots were not thinned. Timely rainfall in May and June resulted in rapid plant growth and development. Due to the late planting, the test block was sprayed twice for midge. Control was good but not entirely effective as reflected in the following Table.

Normally in this area, late planted sorghum does not have the same yield potential as does early planted sorghum due to lack of rainfall and high temperatures. This scenario was not true in 1992. Excellent yields were achieved despite a high plant population and a brief period of plant stress after flowering. Yields are reflected in the following Table with the test mean yield being 3,308 lb/A. Lodging was a problem in some hybrids due to charcoal rot.

Table 7A. GRAIN SORGHUM PERFORMANCE TEST; THRALL, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Stand	Midge Dam- age %	% Lodge	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Wt	P	M	62	52	6	100.0	0.0	0.0	62.2	14.6	5087	A
1552	Delta and Pine Land Co.	Bz	P	M	61	53	4	100.0	0.0	4.0	61.1	14.5	5028	A-B
1506	Delta and Pine Land Co.	Ct	P	M	63	55	4	100.0	0.0	0.0	61.9	14.5	4989	A-C
A603	ASGROW SEED CO.	R	P	ML	62	49	6	100.0	0.0	7.3	59.6	14.3	4751	A-D
857	Cargill Hybrid Seeds	Bz	P	ML	61	45	3	100.0	0.0	5.0	59.3	14.2	4585	A-E
A35 x R8503	Tx. Agri. Exp. Stat.(DR)	*	*	*	63	51	6	100.0	0.0	0.0	59.4	14.0	4441	A-F
DEKALB DK-40y	DEKALB Plant Genetics	Y	P	M	61	43	5	100.0	0.0	3.3	58.7	14.1	4419	A-F
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	63	52	6	100.0	0.0	3.7	59.7	14.4	4387	A-G
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	R	R	ML	63	50	3	95.0	1.7	3.3	58.4	14.0	4330	A-H
NC+ 472	NC+ Hybrids	Bz	*	M	61	44	2	100.0	5.0	6.7	56.5	13.7	4252	A-I
A807 x R8505	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	62	49	3	98.3	0.0	4.0	61.4	14.4	4246	A-I
ICI 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	62	47	4	100.0	0.0	11.7	59.2	13.9	4228	B-J
F-524	Frontier Hybrids, Inc.	Bz	T	M	61	54	4	100.0	8.3	6.7	57.8	14.3	4226	B-J
Fill	Tx. Agri. Exp. Stat.	*	*	*	61	53	4	100.0	13.3	10.0	59.6	14.0	4196	B-K
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	63	52	5	100.0	0.0	10.0	55.3	13.8	4178	B-L
8601	Pioneer Hi-Bred Int., Inc.	Bz	P	ME	60	44	4	100.0	7.7	0.0	58.0	13.7	4137	C-L
Rustler	Conlee Seed Co., Inc.	R	P	M	61	53	3	100.0	5.0	16.7	60.5	14.2	4072	D-M
8313	Pioneer Hi-Bred Int., Inc.	Bz	P	L	61	45	3	100.0	11.7	6.7	58.6	11.1	3986	D-N
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	61	51	4	100.0	20.0	13.3	59.0	13.9	3944	D-O
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	61	50	2	100.0	3.3	20.0	58.3	14.1	3888	D-P
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	65	47	3	100.0	0.0	0.0	59.3	14.0	3853	E-P
837	Cargill Hybrid Seeds	Bz	P	ML	62	50	3	100.0	0.0	13.3	58.3	13.9	3832	E-Q
1558	Delta and Pine Land Co.	Rt	P	M	61	46	5	100.0	6.7	16.7	59.3	14.1	3796	E-Q
GSC 1290E	Gro Agri Seed Co.	Bz	P	ML	61	44	4	100.0	15.0	3.3	54.6	12.0	3785	E-Q
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	62	54	3	100.0	0.0	8.3	59.8	14.1	3732	E-R
2665	Northrup King Co.	R	*	ML	62	46	3	100.0	1.7	6.7	59.7	13.9	3715	E-R
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	Bz	P	ML	61	51	4	100.0	5.0	18.3	60.1	14.1	3711	E-S
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	W	R	ML	63	48	3	100.0	0.0	11.7	58.7	13.8	3696	F-T
A807 x R3224 (sh)	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	62	45	2	98.3	0.0	0.7	60.0	14.1	3663	F-T
A1 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	W	R	ML	63	56	3	100.0	0.0	13.3	58.0	14.1	3571	F-T

Table 7A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Stand	Midge Dam- age %	% Lodge	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	59	47	6	100.0	25.0	8.3	54.9	13.7	3528	G-T
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	64	45	7	100.0	0.0	2.3	57.2	14.2	3510	G-T
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	63	53	2	96.7	1.7	12.0	56.5	13.9	3494	H-U
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	59	49	5	100.0	21.7	0.0	57.2	14.1	3440	I-V
Chaparral	ASGROW SEED CO.	Bz	P	ME	60	47	3	100.0	20.0	3.3	58.1	14.1	3372	I-W
GSC 3260X	Gro Agri Seed Co.	Bz	P	ML	61	52	5	100.0	15.0	18.3	56.2	13.7	3355	J-X
8310	Pioneer Hi-Bred Int., Inc.	R	R	M	61	54	4	100.0	3.3	20.0	57.8	14.1	3341	K-X
KS 737	Northrup King Co.	R	*	ML	60	46	7	100.0	51.7	3.3	56.7	14.0	3320	K-X
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	61	44	4	100.0	16.7	18.3	55.5	13.4	3312	K-X
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	63	48	4	100.0	0.0	14.0	58.5	14.1	3307	L-X
T-E Ranger	Taylor-Evans Seed Co.	R	P	M	60	45	5	96.7	28.3	2.3	56.7	14.4	3233	M-Y
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	66	41	2	100.0	1.7	0.0	55.9	13.9	3231	M-Y
NC+ 7B90	NC+ Hybrids	Bz	*	M	61	51	4	100.0	3.3	31.7	58.2	13.9	3209	M-Y
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	R	P	ML	59	47	3	100.0	3.3	28.3	57.4	13.7	3207	M-Y
HSC Cherokee	HyPerformer Seed Co.	R	*	M	60	50	4	100.0	13.3	11.7	57.0	14.1	3170	N-Z
GSC 3150	Gro Agri Seed Co.	Bz	P	ML	62	50	2	93.3	0.7	33.3	58.3	13.1	3100	N-AA
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	65	42	2	100.0	0.7	1.3	56.7	13.9	3088	O-AA
X8919	Northrup King Co.	R	*	M	60	46	4	100.0	35.0	0.7	54.9	13.6	3021	P-BB
ATxARG-1 x 80C2241	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	61	46	4	100.0	8.3	2.3	56.1	13.5	2947	Q-BB
X8930	Northrup King Co.	C	*	M	60	41	3	100.0	36.7	0.7	56.5	14.3	2891	R-BB
8379	Pioneer Hi-Bred Int., Inc.	Bz	P	ML	60	43	4	100.0	18.3	3.7	55.1	13.9	2890	R-BB
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	66	40	3	100.0	0.0	4.0	56.5	13.7	2878	R-CC
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	61	52	4	100.0	15.0	36.7	59.1	14.0	2860	R-DD
T-E Prosper	Taylor-Evans Seed Co.	Bz	P	M	61	42	4	100.0	20.0	0.0	54.8	13.5	2823	S-EE
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	61	55	4	100.0	5.0	43.3	58.1	13.5	2817	T-EE
TS-488	TEXAS SEED CO., INC.	Bz	R	M	62	44	5	100.0	8.3	30.0	58.7	14.0	2619	U-FF
RS200E	Richardson Seeds, Inc.	Rt	R	ME	60	45	5	100.0	28.3	11.7	54.8	14.5	2610	V-FF
A1 x Tx2783	Tx. Agri. Exp. Stat.	R	P	ML	63	53	2	96.7	0.0	50.0	57.7	14.1	2531	W-FF
CHECK	Tx. Agri. Exp. Stat.	R	R	ML	61	47	5	100.0	15.0	38.3	54.4	14.0	2516	W-FF
dk 790E	DOUGLASS W. KING CO. INC	R	P	ML	61	49	5	100.0	16.7	33.3	58.6	14.3	2490	W-FF

Table 7A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head		Midge		Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
							Exser- tion Inches	% Stand	Dam- age %	% Lodge				
HSC Wings	HyPerformer Seed Co.	Bz	*	ML	61	48	3	100.0	3.3	35.0	57.9	14.1	2476	X-FF
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	65	42	2	100.0	0.0	10.0	58.2	13.7	2402	Y-GG
X10216	Cargill Hybrid Seeds	Bz	P	M	61	43	3	100.0	48.3	0.0	52.4	15.5	2324	Z-GG
dk 785E	DOUGLASS W. KING CO, INC	R	P	M	62	44	1	100.0	1.7	35.0	56.2	14.1	2233	AA-HH
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ML	61	49	4	100.0	11.7	50.0	56.2	14.0	2215	BB-HH
ORO Baron	ORO Hybrids-R.C. Young	Rt	P	ML	61	47	4	100.0	11.7	55.0	57.8	14.1	2179	BB-HH
X55830	Richardson Seeds, Inc.	Rt	R	E	60	52	7	100.0	51.7	18.3	51.5	15.9	2020	CC-HH
KS 383Y	Northrup King Co.	C	*	ME	60	43	4	100.0	66.7	0.0	52.1	14.2	2011	DD-HH
HSC 91HSC-17	HyPerformer Seed Co.	Bz	*	ML	63	47	3	100.0	5.0	55.0	58.4	14.2	1977	EE-HH
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	R	P	ML	62	61	7	100.0	0.0	60.0	58.7	14.7	1943	FF-HH
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	R	P	ML	62	48	4	100.0	0.0	75.0	55.9	13.2	1833	FF-HH
ORO Edge	ORO Hybrids-R.C. Young	Bz	P	ME	59	44	3	98.3	53.3	0.0	51.7	14.0	1757	FF-HH
GSC 3159	Gro Agri Seed Co.	Bz	P	ME	60	42	4	100.0	68.3	0.0	49.4	13.2	1603	GG-HH
8699	Pioneer Hi-Bred Int., Inc.	Bz	P	E	59	46	8	100.0	83.3	0.0	46.5	13.7	1466	HH

Test Mean = 3,308 Test C. V. = 13.0 LSD .05 = 694.5

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

* Douglass King dk780 and ICI Seeds Garst 5392 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 7B. Three-year summary, Grain Sorghum Performance Test, Thrall, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A35 x 89CC443	Tx. Agri. Exp. Stat.	1	5087	-	-	-	-
1552	Delta and Pine Land Co.	2	5028	35	5058	12	2416
1506	Delta and Pine Land Co.	3	4989	3	5933	8	2566
A603	ASGROW SEED CO.	4	4751	-	-	-	-
857	Cargill Hybrid Seeds	5	4585	25	5243	-	-
A35 x R8503	Tx. Agri. Exp. Stat.(DR)	6	4441	-	-	-	-
DEKALB DK-40y	DEKALB Plant Genetics	7	4419	37	5055	-	-
DEKALB DK-56	DEKALB Plant Genetics	8	4387	46	4975	2	2791
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	9	4330	-	-	-	-
NC+ 472	NC+ Hybrids	10	4252	32	5113	48	1930
A807 x TAM428	Tx. Agri. Exp. Stat.(DR)	11	4246	-	-	-	-
ICI 5323	ICI Seeds (Garst Seed Co.)	12	4228	-	-	-	-
F-524	Frontier Hybrids, Inc.	13	4226	22	5254	-	-
Fill		14	4196	-	-	-	-
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	15	4178	-	-	-	-
8601	Pioneer Hi-Bred Int., Inc.	16	4137	29	5210	-	-
Rustler	Conlee Seed Co., Inc.	17	4072	34	5082	75	1567
8313	Pioneer Hi-Bred Int., Inc.	18	3986	48	4929	80	1515
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	19	3944	15	5448	51	1864
ORO Amigo	ORO Hybrids-R.C. Young	20	3888	43	4997	59	1760
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	21	3853	-	-	-	-
837	Cargill Hybrid Seeds	22	3832	-	-	-	-
1558	Delta and Pine Land Co.	23	3796	57	4720	52	2664
GSC 1290E	Gro Agri Seed Co.	24	3785	-	-	-	-
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	25	3732	-	-	-	-
2665	Northrup King Co.	26	3715	28	5215	88	1396
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	27	3711	21	5266	84	1449
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	28	3696	-	-	-	-
A807 x R3224(sh)	Tx. Agri. Exp. Stat.(DR)	29	3663	-	-	-	-
A1 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	30	3571	49	4922	-	-

Table 7B. Thrall, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATx399 x RTx430	Tx. Agri. Exp. Stat.	31	3528	31	5136	77	1558
A8610 x R6956	Tx. Agri. Exp. Stat.(FM)	32	3510	-	-	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	33	3494	-	-	26	2249
DEKALB DK-37	DEKALB Plant Genetics	34	3440	55	4752	1	2801
Chaparral	ASGROW SEED CO.	35	3372	69	3945	-	-
GSC 3260X	Gro Agri Seed Co.	36	3355	-	-	-	-
8310	Pioneer Hi-Bred Int., Inc.	37	3341	-	-	-	-
KS 737	Northrup King Co.	38	3320	58	4578	40	2051
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	39	3312	47	4936	94	1062
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	40	3307	-	-	-	-
T-E Ranger	Taylor-Evans Seed Co.	41	3233	-	-	50	1906
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	42	3231	-	-	-	-
NC+ 7B90	NC+ Hybrids	43	3209	19	5303	-	-
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	44	3207	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	45	3170	16	5434	37	2121
GSC 3150	Gro Agri Seed Co.	46	3100	23	5246	36	2133
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	47	3088	-	-	-	-
X8919	Northrup King Co.	48	3021	-	-	-	-
ATxARG-1 x 80C2241	Tx. Agri. Exp. Stat.(FM)	49	2947	-	-	-	-
X8930	Northrup King Co.	50	2891	-	-	-	-
8379	Pioneer Hi-Bred Int., Inc.	51	2890	63	4414	10	2511
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	52	2878	-	-	-	-
T-E Y-75	Taylor-Evans Seed Co.	53	2860	5	5800	6	2656
T-E Prosper	Taylor-Evans Seed Co.	54	2823	-	-	-	-
ATx378 x RTx430	Tx. Agri. Exp. Stat.	55	2817	7	5616	45	1960
TS-488	TEXAS SEED CO., INC.	56	2619	20	5277	-	-
RS200E	Richardson Seeds, Inc.	57	2610	-	-	-	-
A1 x Tx2783	Tx. Agri. Exp. Stat.	58	2531	2	5950	90	1387
CHECK (dk 780)		59	2516	4	5803	16	2339
dk 790E	DOUGLASS W. KING CO, INC	60	2490	-	-	-	-

Table 7B. Thrall, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HSC Wings	HyPerformer Seed Co.	61	2476	14	5486	34	2156
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	62	2402	-	-	-	-
X10216	Cargill Hybrid Seeds	63	2324	-	-	-	-
dk 785E	DOUGLASS W. KING CO, INC	64	2233	-	-	-	-
CHECK (ICI/Garst 5392)		65	2215	11	5544	-	-
ORO Baron	ORO Hybrids-R.C. Young	66	2179	-	-	-	-
X55830	Richardson Seeds, Inc.	67	2020	-	-	-	-
KS 383Y	Northrup King Co.	68	2011	-	-	-	-
HSC 91HSC-17	HyPerformer Seed Co.	69	1977	-	-	-	-
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	70	1943	6	5644	-	-
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	71	1833	33	5100	-	-
ORO Edge	ORO Hybrids-R.C. Young	72	1757	62	4436	-	-
GSC 3159	Gro Agri Seed Co.	73	1603	67	4177	29	2212
8699	Pioneer Hi-Bred Int., Inc.	74	1466	-	-	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	1	6777	52	1862
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	8	5566	27	2230
dk 776	DOUGLASS W. KING CO, INC	-	-	9	5559	39	2058
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	13	5504	20	2325
GSC 1313	Gro Agri Seed Co.	-	-	17	5423	28	2212
GSC 3148	Gro Agri Seed Co.	-	-	18	5321	54	1833
NC+ 573E	NC+ Hybrids	-	-	24	5243	42	2723
dk 760	DOUGLASS W. KING CO, INC	-	-	30	5138	71	1618
GSC 1299	Gro Agri Seed Co.	-	-	39	5020	17	2333
630	Cargill Hybrid Seeds	-	-	52	4845	78	1533
8573	Pioneer Hi-Bred Int., INC.	-	-	54	4760	24	2279
Number Entries:		74		70		94	
Test Mean Yield:			3308		5054		1954

Note: Hybrids with the same yield were ranked by computer.

TABLE 8.

AGRONOMIC AND TEST INFORMATION: MCKINNEY

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	Bailey Farms near Prosper, Texas
COOPERATORS:	Scott Bailey, Ken White, Dennis Pietsch, Randy Gaas, Leon Synatschk and Cloyce Coffman
SOIL TYPE:	Houston black clay
ROW WIDTH:	30"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked (2), field cultivated
DATE PLANTED:	4-3-92, by hand
PLOT LENGTH:	25'
FERTILIZER:	Broadcast 100 lb/A of Anhydrous Ammonia preplant and 100 lb/A of 10+34+0 at planting
HERBICIDE:	Banded .5 lb of Atrazine 4L at planting
INSECTICIDE:	Banded 5 lb Counter 15G in furrow at planting
RAINFALL:	Jan.=4.28",Feb.=2.83", March=4.60", April=1.58", May = 6.69"; June = 4.50"; July = 3.59"; August = .46"; Total = 28.53"
IRRIGATIONS:	None
DATE HARVESTED:	8-21-92 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	69
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	Plants were thinned to approximately 5 plants/foot
TEST MEAN:	5,735 lb/A; yields corrected to 13% moisture
TEST C.V.:	6.4 percent

GENERAL INFORMATION: Conditions were favorable for outstanding yields to be achieved at this site and represents the potential of grain sorghum. The season started with ample moisture from fall, winter and early spring rainfall. An optimum planting date was secured. Excellent plant stands were achieved after the test block was hand-thinned to approximately 4-5 plants per foot. Timely rains during the growing season and a good fertilization program allowed for rapid growth and development and alleviated plant stress.

The test mean yield was 5,735 lb/A compared to the past 3-year average of 4,296 lb/A. Twenty-three hybrids in the test produced over 6,000 lb/A. Lodging was observed in several hybrids, but the incidence was low. Excellent bushel weights were recorded as reflected in the following Table.

Table 8A. GRAIN SORGHUM PERFORMANCE TEST; MCKINNEY, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Stand	% Lodge	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
CHECK	Tx. Agri. Exp. Stat.	*	*	*	78	50	7	100.0	0.0	60.3	14.1	6882	A
NC+ 472	NC+ Hybrids	Bz	*	M	78	44	6	100.0	0.0	57.2	13.8	6657	A-B
8310	Pioneer Hi-Bred Int., Inc.	R	R	M	76	49	8	100.0	6.7	60.5	14.0	6601	A-B
CHECK	Tx. Agri. Exp. Stat.	*	*	*	77	47	8	100.0	0.0	57.6	13.6	6591	A-B
HSC Cherokee	HyPerformer Seed Co.	R	*	M	77	50	8	100.0	0.0	59.8	14.3	6582	A-B
GSC 3150	Gro Agri Seed Co.	Bz	P	ML	79	50	7	100.0	0.0	60.4	14.3	6434	A-C
W-818-E	GEORGE WARNER SEED CO.	Bz	R	M	77	55	12	100.0	0.0	60.6	14.5	6359	A-D
Rustler	Conlee Seed Co., Inc.	R	P	M	78	51	8	100.0	0.0	59.5	14.1	6351	A-E
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	78	49	8	100.0	0.7	59.5	14.2	6347	A-E
837	Cargill Hybrid Seeds	Bz	P	ML	80	48	8	100.0	0.0	58.9	14.1	6315	A-F
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	Bz	P	ML	79	50	8	100.0	0.0	60.1	14.2	6302	A-G
F-524	Frontier Hybrids, Inc.	Bz	T	M	79	50	8	100.0	4.0	59.5	14.2	6283	A-H
NC+ 7B90	NC+ Hybrids	Bz	*	M	79	48	7	100.0	0.0	59.5	13.9	6254	A-I
W-816-E	GEORGE WARNER SEED CO.	R	R	M	77	49	7	96.7	1.7	59.5	14.4	6248	A-J
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	Ct	P	ML	77	48	8	100.0	0.0	57.8	13.6	6244	A-J
NC+ 573E	NC+ Hybrids	R	*	M	77	46	8	100.0	0.0	59.5	14.3	6158	A-K
CHECK	Tx. Agri. Exp. Stat.	*	*	*	77	44	8	100.0	0.0	59.5	14.2	6106	B-L
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	77	46	7	100.0	0.0	58.6	13.7	6065	B-M
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	76	43	9	100.0	0.0	54.7	13.1	6054	B-M
8601	Pioneer Hi-Bred Int., Inc.	Bz	P	ME	74	49	8	100.0	0.0	59.9	14.2	6054	B-M
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	78	51	7	100.0	0.0	60.3	14.3	6038	B-N
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	79	58	9	100.0	1.0	58.2	14.3	6002	B-O
8313	Pioneer Hi-Bred Int., Inc.	Bz	P	L	78	44	7	100.0	0.0	60.0	14.4	6001	B-O
KS 737	Northrup King Co.	R	*	ML	77	49	9	100.0	1.7	59.9	14.3	5968	B-P
GW5960	Crosbyton Seed Co., Inc.	Bz	P	ME	75	49	9	100.0	0.0	58.2	13.6	5953	B-Q
1506	Delta and Pine Land Co.	Ct	P	M	76	53	12	100.0	3.3	59.1	14.2	5931	B-Q
T-E Prosper	Taylor-Evans Seed Co.	Br	P	M	76	45	9	100.0	0.0	59.7	13.6	5913	B-Q
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	79	49	8	100.0	0.0	61.0	14.7	5809	C-R
W-625-Y	GEORGE WARNER SEED CO.	Y	R	M	76	51	12	100.0	0.0	59.3	14.2	5751	C-S
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	80	52	8	100.0	0.0	59.1	14.2	5745	C-S

Table 8A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Stand	% Lodge	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
8379	Pioneer Hi-Bred Int., Inc.	Bz	P	ML	77	46	8	100.0	0.0	61.0	14.3	5718	C-S
SG-833	Garrison & Townsend, Inc.	Bz	R	M	77	49	10	100.0	1.7	59.5	13.9	5715	C-S
630	Cargill Hybrid Seeds	Bz	P	ME	75	47	9	100.0	2.3	59.3	14.2	5660	D-S
1482	Delta and Pine Land Co.	Bz	P	ME	76	48	9	100.0	0.0	58.7	14.0	5650	D-S
A1 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	W	R	ML	78	54	8	100.0	0.0	59.5	14.0	5648	D-S
HSC 91HSC-20	HyPerformer Seed Co.	Bz	*	ME	75	49	10	98.3	8.3	58.9	13.8	5641	D-S
GW4850X	Crosbyton Seed Co., Inc.	Bz	P	M	77	48	10	98.3	6.7	58.9	14.0	5604	D-S
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	79	51	12	100.0	0.7	60.6	15.0	5591	E-S
ICI 5323	ICI Seeds (Garst Seed Co.)	R	P	ML	83	49	9	100.0	0.0	60.1	14.3	5588	E-S
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	R	P	ML	75	61	11	100.0	0.0	60.4	14.4	5572	F-S
ORO Edge	ORO Hybrids-R.C. Young	Bz	P	ME	75	43	7	100.0	0.0	57.3	13.8	5564	F-S
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	R	P	ML	77	52	8	95.0	0.0	59.9	14.7	5549	G-T
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	77	49	6	100.0	0.0	59.3	14.3	5530	H-T
GSC 3159	Gro Agri Seed Co.	Bz	P	ME	75	44	8	100.0	0.0	57.8	13.6	5527	H-T
T-E 76	Taylor-Evans Seed Co.	R	P	M	78	45	6	100.0	0.0	55.9	13.3	5521	H-T
SG-822	Garrison & Townsend, Inc.	Ct	T	M	78	51	9	100.0	0.0	59.2	14.1	5498	I-T
A1 x Tx2783	Tx. Agri. Exp. Stat.	R	P	ML	79	55	7	100.0	0.0	60.1	14.6	5487	J-T
1552	Delta and Pine Land Co.	Bz	P	M	77	49	7	100.0	0.0	58.6	14.0	5445	K-T
HSC 92HSC-01	HyPerformer Seed Co.	Bz	*	M	78	47	8	100.0	0.0	59.1	14.0	5443	K-T
GW7031	Crosbyton Seed Co., Inc.	Ct	P	ME	74	46	10	100.0	0.0	57.2	13.6	5442	K-T
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	R	P	ML	76	50	9	100.0	0.0	57.8	13.4	5417	K-T
DEKALB DK-40y	DEKALB Plant Genetics	Y	P	M	75	47	10	100.0	2.7	59.1	13.8	5400	K-T
618Y	Cargill Hybrid Seeds	Ct	P	ME	75	47	10	100.0	0.0	55.9	13.4	5377	L-T
SG-858	Garrison & Townsend, Inc.	R	P	M	78	46	7	100.0	0.0	57.9	13.9	5361	L-T
CHECK	Tx. Agri. Exp. Stat.	*	*	*	75	46	10	100.0	0.0	57.9	13.8	5350	L-T
A1 x GR107-90M17	Tx. Agri. Exp. Stat.(GP)	R	R	ML	76	46	8	100.0	0.0	60.2	14.4	5349	L-T
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	R	P	ML	74	44	8	100.0	0.0	58.4	13.2	5323	M-T
X8919	Northrup King Co.	R	*	M	74	48	10	100.0	6.7	60.1	13.9	5307	M-T
X10216	Cargill Hybrid Seeds	Bz	P	M	77	47	10	100.0	0.0	58.4	14.1	5273	N-T
DEKALB DK-37	DEKALB Plant Genetics	Bz	P	ME	72	51	9	100.0	1.7	60.2	14.4	5264	O-T

Table 8A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Stand	% Lodge	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
GSC 1310AE	Gro Agri Seed Co.	Bz	P	M	78	46	9	100.0	0.0	59.8	13.8	5206	P-U
CHECK	Tx. Agri. Exp. Stat.	*	*	*	74	42	8	100.0	0.0	55.9	13.5	5197	Q-U
A1 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	R	R	ML	78	48	7	100.0	0.0	60.7	14.7	5114	R-U
A35 x (Tx430 x R9188) 8699	Tx. Agri. Exp. Stat.(DR) Pioneer Hi-Bred Int., Inc.	Rt	P	ML	81	51	13	100.0	0.0	59.3	14.6	5095	R-U
		Bz	P	E	75	47	9	100.0	0.0	58.6	14.0	5091	R-U
GW5924	Crosbyton Seed Co., Inc.	Bz	P	ME	74	45	10	100.0	0.0	57.5	13.7	5003	S-U
SG-651	Garrison & Townsend, Inc.	Ct	T	ME	78	50	11	100.0	3.5	56.8	13.5	4798	T-V
T-E 9118-X	Taylor-Evans Seed Co.	Ct	P	M	76	48	9	100.0	0.0	58.7	13.3	4528	U-V
KS 383Y	Northrup King Co.	C	*	ME	76	40	6	100.0	2.7	57.2	13.2	4329	V

Test Mean = 5,735 Test C. V. = 6.4 LSD .05 = 595.9

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

* East Texas ET610, ET602, ET Exp3, ET Exp1, and ET Exp2 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 8B. Three-year summary, Grain Sorghum Performance Test, McKinney, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
CHECK (ET610)		1	6882	20	4575	56	3859
NC+ 472	NC+ Hybrids	2	6657	32	4365	34	4080
8310	Pioneer Hi-Bred Int., Inc.	3	6601	-	-	-	-
CHECK (ET602)		4	6591	51	3924	49	3921
HSC Cherokee	HyPerformer Seed Co.	5	6581	45	4136	28	4132
GSC 3150	Gro Agri Seed Co.	6	6434	-	-	-	-
W-818-E	GEORGE WARNER SEED CO.	7	6359	-	-	-	-
Rustler	Conlee Seed Co., Inc.	8	6351	19	4595	18	4233
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	9	6347	2	5405	48	3925
837	Cargill Hybrid Seeds	10	6315	-	-	-	-
ICI/Garst 5319	ICI Seeds (Garst Seed Co.)	11	6302	-	-	20	4207
F-524	Frontier Hybrids, Inc.	12	6283	15	4713	-	-
NC+ 7B90	NC+ Hybrids	13	6254	-	-	-	-
W-816-E	GEORGE WARNER SEED CO.	14	6248	-	-	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	15	6244	8	5020	60	3744
NC+ 573E	NC+ Hybrids	16	6158	31	4373	-	-
CHECK (ET Exp3)		17	6106	-	-	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	18	6065	21	4507	46	3959
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	19	6054	47	4035	25	4150
8601	Pioneer Hi-Bred Int., Inc.	20	6054	16	4712	-	-
ORO Amigo	ORO Hybrids-R.C. Young	21	6038	3	5330	31	4125
ATx378 x RTx430	Tx. Agri. Exp. Stat.	22	6002	22	4491	24	4162
8313	Pioneer Hi-Bred Int., Inc.	23	6001	29	4402	29	4130
KS 737	Northrup King Co.	24	5968	11	4869	58	3798
GW5960	Crosbyton Seed Co., Inc.	25	5953	-	-	-	-
1506	Delta and Pine Land Co.	26	5931	9	5004	50	3916
T-E Prosper	Taylor-Evans Seed Co.	27	5913	-	-	-	-
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	28	5809	-	-	-	-
W-625-Y	GEORGE WARNER SEED CO.	29	5751	12	4845	-	-
ORO EXP. 9211	ORO Hybrids-R.C. Young	30	5745	-	-	-	-

Table 8B. McKinney, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
8379	Pioneer Hi-Bred Int., Inc.	31	5718	17	4672	81	3446
SG-833	Garrison & Townsend, Inc.	32	5715	-	-	-	-
630	Cargill Hybrid Seeds	33	5660	24	4440	70	3623
1482	Delta and Pine Land Co.	34	5650	-	-	-	-
A1 x GR126-90M36	Tx. Agri. Exp. Stat.	35	5648	-	-	-	-
HSC 91HSC-20	HyPerformer Seed Co.	36	5641	-	-	-	-
GW4850X	Crosbyton Seed Co., Inc.	37	5604	-	-	-	-
DEKALB DK-56	DEKALB Plant Genetics	38	5591	27	4422	2	4777
ICI 5323	ICI Seeds (Garst Seed Co.)	39	5588	-	-	-	-
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	40	5572	-	-	-	-
ORO Edge	ORO Hybrids-R.C. Young	41	5564	26	4427	-	-
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	42	5549	-	-	-	-
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	43	5530	53	3778	36	4064
GSC 3159	Gro Agri Seed Co.	44	5527	50	3937	-	-
T-E 76	Taylor-Evans Seed Co.	45	5521	23	4465	35	4071
SG-822	Garrison & Townsend, Inc.	46	5498	-	-	-	-
A1 x Tx2783	Tx. Agri. Exp. Stat.	47	5487	-	-	17	4266
1552	Delta and Pine Land Co.	48	5445	-	-	51	3910
HSC 92HSC-01	HyPerformer Seed Co.	49	5443	-	-	-	-
GW7031	Crosbyton Seed Co., Inc.	50	5442	-	-	-	-
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	51	5417	-	-	-	-
DEKALB DK-40y	DEKALB Plant Genetics	52	5400	14	4740	32	4090
618Y	Cargill Hybrid Seeds	53	5377	1	5575	79	3498
SG-858	Garrison & Townsend, Inc.	54	5361	35	4326	-	-
CHECK (ET Exp1)		55	5350	-	-	-	-
A1 x GR107-90M17	Tx. Agri. Exp. Stat.(GP)	56	5349	-	-	-	-
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	57	5323	-	-	-	-
X8919	Northrup King Co.	58	5307	-	-	-	-
X10216	Cargill Hybrid Seeds	59	5273	-	-	-	-
DEKALB DK-37	DEKALB Plant Genetics	60	5264	6	5080	72	3605

Table 8B. McKinney, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
GSC 1310AE	Gro Agri Seed Co.	61	5206	-	-	-	-
CHECK (ET Exp2)		62	5197	-	-	-	-
A1 x GR107-90M16	Tx. Agri. Exp. Stat.	63	5114	-	-	-	-
A35 x (Tx430 x R9188)	Tx. Agri. Exp. Stat.(DR)	64	5095	5	5132	-	-
8699	Pioneer Hi-Bred Int., Inc.	65	5091	-	-	-	-
GW5924	Crosbyton Seed Co., Inc.	66	5003	-	-	-	-
SG-651	Garrison & Townsend, Inc.	67	4798	-	-	-	-
T-E 9118-X	Taylor-Evans Seed Co.	68	4528	-	-	-	-
KS 383Y	Northrup King Co.	69	4329	-	-	-	-
G-1616	Delta and Pine Land Co.	-	-	4	5255	5	4501
ORO Ivory	ORO Hybrids-R.C. Young	-	-	10	4914	75	3525
8573	Pioneer Hi-Bred Int., Inc.	-	-	13	4815	87	3259
A1 x R8505	Tx. Agri. Exp. Stat.(DR)	-	-	28	4413	8	4403
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	33	4359	55	3864
ORO G Xtra	ORO Hybrids-R.C. Young	-	-	37	4310	21	4200
DN31	DyNA Seeds Ltd.	-	-	43	4208	53	3907
F-457	Frontier Hybrids, Inc.	-	-	44	4180	37	4044
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	49	3947	45	3960
1492	Delta and Pine Land Co.	-	-	56	3375	65	3673
Number Entries:		69		62		90	
Test Mean Yield:		5735		4279		3919	

Note: Hybrids with the same yield were ranked by computer.

TABLE 9. AGRONOMIC AND TEST INFORMATION: LUBBOCK-LIMITED IRRIGATION

TEST:	1992 Limited Irrigated Grain Sorghum Performance Test
LOCATION:	Texas A&M University Agricultural Research and Extension Center, Lubbock, Texas
COOPERATORS:	D.T. Rosenow and C.A. Woodfin
SOIL TYPE:	Olton loam
ROW WIDTH:	40"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked and bedded
DATE PLANTED:	5-12-92; cone planter
DATE THINNED:	6-14-92, to 3" spacing = 52,000 plants/A
PLOT LENGTH:	16'
FERTILIZER:	200+0+0
HERBICIDE:	1.5 lb/A A.I.Milogard (propazine) pre-emerge
INSECTICIDE:	Applied 7 lb/A of Counter 20CR (terbufos) at planting. Applied .5 pt/A Lorsban for late infestation of greenbugs
RAINFALL:	May = 4.05"; June = 4.55", July = 1.66"; August = 1.49"; September = 1.13"; Total = 12.88"
IRRIGATIONS:	7-13-92 = 4"; 8-7-92 = 4"
DATE HARVESTED:	9-28-92
SIZE HARVESTED PLOT:	2 rows 16'
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	81
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	7,447 lb/A; corrected to 13% moisture
TEST C. V.:	8.1 percent

GENERAL INFORMATION: Below normal temperatures and timely rainfall during the growing season were contributing factors resulting in above average yields. After an optimum planting date was achieved, the test block suffered a period of cool wet weather with some hail and high winds which retarded early plant growth and development. Good growing conditions soon followed resulting in excellent plant growth and panicle development. Greenbugs were observed late in the season, contributing to a few "hot spots" of lodged plants. Bird damage was very light. Silver and red tape was used for bird control and worked very well. The large acreage of sorghum in the area also reduced bird damage. Stands were excellent and there was no disease problems. Dry warm weather after September 1 resulted in some moderate moisture stress causing premature plant death and lodging in a few entries. A leaf and plant death rating is shown in Table 9A.

Table 9A. LIMITED IRRIGATED GRAIN SORGHUM PERFORMANCE TEST; LUBBOCK, TEXAS 1992

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Head			L & P Death Rating 5	Mois- ture % 7	Yield lb/A 8	Stat. Sig., 0.05 9
							Exser- tion Inches 10	% Bird 11	% Lodge 12				
DEKALB DK-66	DEKALB Plant Genetics	Bz	P	L	82	51	1	0.0	0.7	2.6	15.5	9054	A
KS 936	Northrup King Co.	R	*	L	82	50	2	0.0	0.0	1.8	16.9	8946	A-B
SG-942	Garrison & Townsend, Inc.	Bz	P	L	79	47	1	1.7	0.0	2.0	16.6	8465	A-C
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	78	49	2	3.3	0.3	2.2	15.1	8335	A-D
dk 790E	DOUGLASS W. KING CO, INC	R	P	L	79	49	2	2.7	0.0	2.1	13.8	8313	A-E
1506	Delta and Pine Land Co.	Ct	P	M	76	49	5	3.3	0.0	1.5	14.3	8275	A-F
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	82	49	5	0.0	0.0	1.9	14.8	8268	A-F
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	77	44	1	0.3	0.7	2.2	14.0	8242	A-F
Jacques 611E	Jacques Seed Co.	Bz	P	ML	80	44	1	0.0	0.0	2.1	14.8	8202	A-F
ATx2752 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	78	50	3	1.3	0.7	2.8	14.0	8197	A-F
DEKALB X-156	DEKALB Plant Genetics	Bz	P	ML	79	48	2	0.7	0.0	1.8	14.6	8117	A-G
SPB19937X	Seed Source, Inc.	R	P	M	77	48	2	3.3	0.0	1.8	14.9	8081	A-H
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	77	45	2	0.0	0.0	2.0	14.6	8050	A-I
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	Rt	P	M	78	45	1	0.0	0.0	2.1	14.8	8023	A-I
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	79	49	2	1.0	1.0	2.6	14.5	8020	A-I
T-E 9205-X	Taylor-Evans Seed Co.	B	P	ML	79	45	1	1.7	0.0	2.2	14.5	7999	A-I
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	78	50	5	3.7	0.0	1.7	14.+9	7968	A-J
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	81	50	2	0.7	0.3	2.6	13.3	7952	A-K
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	79	48	4	3.3	1.7	2.6	15.4	7926	A-K
T-E 77E	Taylor-Evans Seed Co.	B	P	L	77	45	1	3.3	0.7	2.0	14.5	7915	A-K
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	76	48	5	5.0	0.0	1.9	14.4	7902	A-K
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	Rt	R	ML	78	47	2	0.7	0.0	2.1	13.9	7853	A-K
857	Cargill Hybrid Seeds	Bz	P	ML	77	43	2	1.7	0.0	1.9	13.9	7841	A-K
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	R	P	ML	79	48	3	0.0	0.3	2.0	14.0	7775	B-L
SPB011X	Seed Source, Inc.	Bz	P	M	79	47	1	0.0	0.7	2.2	14.5	7772	B-L
HSC Cherokee	HyPerformer Seed Co.	R	*	M	77	46	2	3.3	0.0	2.0	12.7	7743	B-L
GSC 3605	Gro Agri Seed Co.	W	P	ML	78	47	3	1.7	0.0	1.6	13.6	7732	B-L
F-524	Frontier Hybrids, Inc.	Bz	T	ML	77	45	3	0.3	0.0	2.3	14.7	7712	C-L
X37029	Cargill Hybrid Seeds	Bz	P	ML	79	43	2	0.0	0.0	1.8	14.4	7711	C-L
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	Bz	P	ML	77	42	4	0.0	0.0	2.1	13.6	7705	C-L

Table 9A. (CONTINUED)

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Head Exser- tion Inches 7	% Bird 8	% Lodge 9	L & P Death Rating 5	Mois- ture % 10	Yield lb/A 11	Stat. Sig., 0.05 6
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	Wt	R	ML	78	50	2	0.0	0.0	2.1	13.9	7701	C-L
2665	Northrup King Co.	R	*	ML	79	42	1	0.0	0.0	2.3	13.9	7694	C-L
GSC 3150	Gro Agri Seed Co.	Bz	P	ML	77	44	2	0.0	0.0	2.0	13.5	7680	C-M
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	79	48	5	0.0	0.0	1.8	13.8	7678	C-M
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	76	42	2	1.7	0.0	1.7	14.3	7625	C-M
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	79	48	2	1.0	0.0	1.9	13.6	7619	C-M
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	75	46	3	5.0	0.0	1.9	12.4	7574	C-N
G-1616	Delta and Pine Land Co.	Bz	P	ML	76	44	2	1.0	0.0	1.6	14.2	7524	C-N
ATx2752 x GR107-90M15	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	78	45	2	0.0	0.0	1.8	13.2	7512	C-N
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	78	44	2	0.0	0.0	2.2	14.3	7478	C-N
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	80	49	2	0.0	1.0	2.5	18.4	7471	C-N
HSC 89-3	HyPerformer Seed Co.	Bz	*	M	77	45	2	1.3	1.0	1.9	12.6	7462	C-N
dk 785E	DOUGLASS W. KING CO, INC	R	P	ML	78	47	2	0.3	0.3	2.2	14.3	7449	C-O
A1 x R8505(RTx436)	Tx. Agri. Exp. Stat.(DR)	Wt	P	ML	78	47	2	0.7	0.0	2.1	14.9	7445	C-O
SG-925	Garrison & Townsend, Inc.	R	P	ML	77	45	2	0.7	0.0	2.2	13.3	7401	C-O
A1 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	Wt	R	ML	78	51	2	0.0	0.0	1.9	14.0	7385	C-O
92HS102	HyPerformer Seed Co.	Ct	*	M	77	45	2	1.7	0.0	1.7	13.1	7371	C-O
CHECK	Tx. Agri. Exp. Stat.	Ct	P	ML	76	46	4	0.0	0.0	1.8	14.7	7337	C-O
ATx2752 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	78	40	2	0.0	0.0	2.3	14.2	7322	C-O
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	W	T	ML	79	50	2	0.0	0.7	2.5	14.0	7318	C-O
Jacques 466-W	Jacques Seed Co.	Ct	P	ML	77	44	4	0.7	0.0	1.6	15.3	7307	C-O
SPB11905X	Seed Source, Inc.	R	P	M	78	44	3	0.0	0.3	2.2	14.1	7301	C-O
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	79	48	5	0.0	1.3	2.2	13.5	7284	C-O
F-333Y	Frontier Hybrids, Inc.	Y	T	M	79	44	3	0.0	0.0	1.9	14.2	7258	C-O
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	Ct	P	ML	75	47	1	1.3	2.0	2.3	13.2	7235	C-O
SG-822	Garrison & Townsend, Inc.	Ct	T	M	77	44	2	1.7	0.0	1.7	15.7	7191	D-O
ATx2752 x GR107-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	79	44	1	1.7	0.0	1.9	14.5	7173	D-O
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	80	45	2	0.0	0.0	2.3	13.7	7159	D-O
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	80	46	4	0.0	0.0	2.4	15.6	7068	E-P
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	80	47	3	0.7	0.0	2.3	12.7	7059	F-P

Table 9A. (CONTINUED)

Hybrid 1	Company Or Brand Name	Grain Color 2	Plant Color 3	Matu- rity Class 4	Days To 50% Flower 5	Plant Height Inches 6	Head Exser- tion Inches 7	% Bird 8	% Lodge 9	L & P Death Rating 5	Mois- ture % 12	Yield lb/A 13	Stat. Sig., 0.05 6
SPB006X	Seed Source, Inc.	Bz	P	M	76	46	3	0.0	3.3	1.8	13.6	7057	F-P
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	78	46	2	1.0	0.0	2.5	13.9	7049	F-P
GSC 3280X	Gro Agri Seed Co.	Bz	P	ML	78	46	2	1.0	2.0	2.7	12.5	7044	F-P
GSC 3624	Gro Agri Seed Co.	Ct	P	ML	76	44	5	4.3	0.0	2.0	13.9	7037	F-P
CHECK	Tx. Agri. Exp. Stat.	Y	P	M	76	44	3	0.0	0.0	1.5	14.4	6927	G-P
837	Cargill Hybrid Seeds	Bz	P	ML	75	45	1	4.0	0.7	2.6	12.7	6907	G-P
AVar(ATx635) x 86EON361	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	78	53	2	0.0	2.7	2.3	13.8	6886	G-P
A1 x Tx2868	Tx. Agri. Exp. Stat.	Wt	P	ML	78	49	2	4.0	0.0	1.9	13.7	6851	H-P
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	Rt	P	ML	77	46	4	3.3	0.0	1.9	13.9	6836	H-P
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	75	51	4	1.7	0.3	2.0	13.6	6816	I-P
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	Wt	T	ML	79	48	3	0.7	0.7	2.4	13.4	6734	J-Q
AVar x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	80	53	1	0.0	15.0	3.8	13.2	6708	K-Q
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	78	51	4	0.7	0.0	1.5	14.3	6556	L-Q
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	76	41	3	0.0	5.0	2.3	13.3	6442	M-Q
Jacques 444E	Jacques Seed Co.	Bz	P	M	76	43	2	1.0	5.0	2.2	13.9	6441	M-Q
ATx2752 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	77	44	2	3.3	3.3	2.2	13.9	6372	N-Q
797	Cargill Hybrid Seeds	Bz	P	M	77	41	2	0.3	0.7	3.0	14.3	6363	N-Q
ABON34 x 87EON366	Tx. Agri. Exp. Stat.(DR)	Wt	T	ML	78	46	2	0.0	6.3	3.7	12.6	6223	O-Q
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	R	ML	77	49	2	4.3	0.0	1.6	14.4	6219	O-Q
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	Bz	P	ML	75	41	3	5.0	0.7	2.6	13.0	5889	P-Q
GSC 3159	Gro Agri Seed Co.	Bz	P	ME	70	38	2	6.7	0.0	1.8	11.7	5639	Q

Test Mean = 7447 Test C. V. = 8.1 LSD .05 = 972.3

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

Table 9A. (CONTINUED)

- 1 NC+ Hybrids NC+ 271 and DeKalb DK-41Y were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.
- 2 Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.0
- 3 Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.
- 4 Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.
- 5 LEAF AND PLANT DEATH RATING: 1=no leaf and plant death 5=leaves and stem completely dead.
- 6 Duncan's multiple range test was used at the .05 level.

Table 9B. Three-year summary, Limited Irrigation Grain Sorghum Performance Test, Lubbock, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DEKALB DK-66	DEKALB Plant Genetics	1	9054	10	6861	2	6211
KS 936	Northrup King Co.	2	8946	-	-	-	-
SG-942	Garrison & Townsend, Inc.	3	8465	-	-	1	6338
ATx378 x RTx430	Tx. Agri. Exp. Stat.	4	8335	19	6643	43	5233
dk 790E	DOUGLASS W. KING CO, INC	5	8313	-	-	-	-
1506	Delta and Pine Land Co.	6	8275	65	5337	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	7	8268	6	7080	-	-
ORO Amigo	ORO Hybrids-R.C. Young	8	8242	20	6577	68	4934
Jacques 611E	Jacques Seed Co.	9	8202	-	-	-	-
ATx2752 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	10	8197	22	6506	-	-
DEKALB X-156	DEKALB Plant Genetics	11	8117	-	-	-	-
SPB19937X	Seed Source, Inc.	12	8081	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	13	8050	13	6813	16	5648
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	14	8023	-	-	-	-
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	15	8020	-	-	-	-
T-E 9205-X	Taylor-Evans Seed Co.	16	7999	-	-	-	-
DEKALB DK-56	DEKALB Plant Genetics	17	7968	46	5911	33	5359
A8618 x Rtx2783	Tx. Agri. Exp. Stat.(FM)	18	7952	26	6439	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	19	7926	11	6859	51	5125
T-E 77E	Taylor-Evans Seed Co.	20	7915	35	6243	44	5232
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	21	7902	-	-	-	-
ATx2752 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	22	7853	-	-	-	-
857	Cargill Hybrid Seeds	23	7841	17	6720	-	-
ATx2792 x Tx2783	Tx. Agri. Exp. Stat.	24	7775	-	-	-	-
SPB011X	Seed Source, Inc.	25	7772	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	26	7743	-	-	42	5236
GSC 3605	Gro Agri Seed Co.	27	7732	-	-	-	-
F-524	Frontier Hybrids, Inc.	28	7712	2	7999	14	5652
X37029	Cargill Hybrid Seeds	29	7711	-	-	-	-
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	30	7705	3	7425	-	-

Table 9B. Lubbock-Limited Irrigation. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	31	7701	75	4808	-	-
2665	Northrup King Co.	32	7694	47	5884	23	5545
GSC 3150	Gro Agri Seed Co.	33	7680	12	6834	13	5656
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	34	7678	-	-	85	4405
ATx399 x RTx430	Tx. Agri. Exp. Stat.	35	7625	40	6132	65	4956
ORO EXP. 9211	ORO Hybrids-R.C. Young	36	7619	-	-	-	-
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	37	7574	66	5305	57	5039
G-1616	Delta and Pine Land Co.	38	7524	58	5593	22	5582
ATx2752 x GR107-90M15	Tx. Agri. Exp. Stat.(GP)	39	7512	56	5642	-	-
T-E Y-75	Taylor-Evans Seed Co.	40	7478	44	6001	21	5593
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	41	7471	54	5719	-	-
HSC 89-3	HyPerformer Seed Co.	42	7462	-	-	-	-
dk 785E	DOUGLASS W. KING CO, INC	43	7449	-	-	-	-
A1 x R8505(RTx436)	Tx. Agri. Exp. Stat.(DR)	44	7445	39	6143	67	4943
SG-925	Garrison & Townsend, Inc.	45	7401	-	-	-	-
A1 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	46	7385	14	6813	-	-
92HS102	HyPerformer Seed Co.	47	7371	-	-	-	-
CHECK (NC+ 271)		48	7337	15	6811	34	5346
ATx2752 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	49	7322	25	6447	-	-
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	50	7318	-	-	-	-
Jacques 466-W	Jacques Seed Co.	51	7307	-	-	-	-
SPB11905X	Seed Source, Inc.	52	7301	-	-	-	-
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	53	7284	-	-	-	-
F-333Y	Frontier Hybrids, Inc.	54	7258	62	5433	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	55	7235	78	4457	64	4979
SG-822	Garrison & Townsend, Inc.	56	7191	-	-	40	5249
ATx2752 x GR107-90M20	Tx. Agri. Exp. Stat.(GP)	57	7173	51	5768	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	58	7159	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	59	7068	-	-	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	60	7059	-	-	-	-

Table 9B. Lubbock-Limited Irrigation. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
SPB006X	Seed Source	61	7057	--	--	--	--
A807 x Tx2817	Tx. Agri. Exp. Stat.(DR)	62	7049	--	--	--	--
GSC 3280X	Gro Agri Seed Co.	63	7044	--	--	--	--
GSC 3624	Gro Agri Seed Co.	64	7037	--	--	--	--
CHECK (DK-41y)		65	6927	36	6190	41	5247
837	Cargill Hybrid Seeds	66	6907	5	7127	--	--
AVar(ATx635) x 86EON361	Tx. Agri. Exp. Stat.(DR)	67	6886	4	7276	--	--
A1 x Tx2868	Tx. Agri. Exp. Stat.	68	6851	--	--	--	--
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	69	6836	--	--	--	--
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	70	6816	82	4074	--	--
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	71	6734	--	--	--	--
AVar x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	72	6708	--	--	--	--
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	73	6556	--	--	--	--
ATX399 X TX2536	Tx. Agri. Exp. Stat.	74	6442	43	6035	48	5154
Jacques 444E	Jacques Seed Co.	75	6441	--	--	--	--
ATx2752 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	76	6372	52	5752	--	--
797	Cargill Hybrid Seeds	77	6363	--	--	--	--
ABON34 x 87EON366	Tx. Agri. Exp. Stat.(DR)	78	6223	--	--	--	--
A1 x Tx2862	Tx. Agri. Exp. Stat.	79	6219	67	5244	--	--
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	80	5889	41	6091	74	4811
GSC 3159	Gro Agri Seed Co.	81	5639	--	--	--	--
GSC 1313	Gro Agri Seed Co.	--	--	7	6904	27	5474
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	--	--	9	6864	30	5415
Rustler	Conlee Seed Co., Inc.	--	--	21	6569	54	5115
OSAGE	ASGROW SEED CO.	--	--	30	6400	79	4614
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	--	--	33	6255	58	5031
KS 737	Northrup King Co.	--	--	34	6252	75	4777
Jacques 606E	Jacques Seed Co.	--	--	38	6144	38	5255
Towhead	Conlee Seed Co., Inc.	--	--	48	5879	36	5326
TOPAZ	ASGROW SEED CO.	--	--	55	5656	73	4861

Table 9B. Lubbock-Limited Irrigation. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A1 x Tx2783	Tx. Agri. Exp. Stat.	-	-	64	5344	4	6071
AArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	70	5066	70	4877
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	83	3714	71	4874
A1 x Tx2737	Tx. Agri. Exp. Stat.(DR)	-	-	85	3274	72	4864
Number of Entries:		81		85		87	
Test Mean Yield:		7447		5899		5227	

Note: Hybrids with the same yield were ranked by computer.

TABLE 10. AGRONOMIC AND TEST INFORMATION: LUBBOCK-DRYLAND

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	Texas A&M University Agricultural Research and Extension Center, Lubbock, Texas
COOPERATORS:	G.C. Peterson and J.W. Jones
SOIL TYPE:	Amarillo fine sandy loam
ROW WIDTH:	40"
PREVIOUS CROP:	Sorghum
LAND PREPARATION:	Shredded sorghum stalks from previous year, disc-bedded on top of old beds
DATE PLANTED:	6-23-92; cone planter
DATE THINNED:	7-14-92
PLOT LENGTH:	16'
FERTILIZER:	Applied 40+0+0 per acre before planting
HERBICIDE:	Applied 1.6 lb/A Milogard (propazine) preplant and 1.75 pt/A Dual at layby.
INSECTICIDE:	Applied 7.0 lb/A Counter 15G (terbufos) at planting and 0.9 pt/A Asana and .5 pt/A Lorsban applied 8-22-92 for midge and greenbug control.
RAINFALL:	May = 4.05"; June = 4.55"; July = 1.66"; August = 1.49"; September = 1.13"; October=0.00" Total = 12.88"
IRRIGATIONS:	None
DATE HARVESTED:	10-29-92
SIZE HARVESTED PLOT:	1/1000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	91
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	26,000 plants/A

GENERAL INFORMATION: This was a good dryland test with excellent plant stands. Above average rainfall filled the subsoil profile and allowed for quick seed emergence. Warm dry conditions after September 1 contributed to significant moisture stress during the grain filling stage. This resulted in considerable premature leaf and plant death and associated lodging in certain hybrids. Asana and Lorsban were applied for midge and greenbug control with excellent results. The plots had no disease, bird or midge damage.

Land preparation consisted of shredding sorghum stalks from the previous year, running sweeps between rows for weed control, and disc bedding on top of old beds. This was the tenth consecutive year that the same beds have been used in this manner. Furrow dikes are maintained in every row essentially year round, with dikes re-established in every row following planting.

Plots were hand harvested and threshed with a plot thresher. Lodged plants were harvested and used in yield determination.

Table 10A. DRYLAND GRAIN SORGHUM PERFORMANCE TEST; LUBBOCK, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Lodge	% Bird	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
797	Cargill Hybrid Seeds	Bz	P	M	55	37	2	16.7	0.0	10.1	4246	A
dk 750y	DOUGLASS W. KING CO, INC	Y	P	M	59	43	4	0.0	0.0	10.3	4229	A-B
T-E Sonora	Taylor-Evans Seeds Co.	Bz	P	M	54	36	2	3.3	0.0	10.2	4227	A-B
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	57	39	2	6.7	0.0	10.2	4218	A-C
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	57	43	2	10.0	0.0	10.4	4191	A-D
DEKALB DK-40y	DEKALB Plant Genetics	Y	P	ME	54	38	2	0.0	0.0	10.2	4177	A-E
ATx2801 x Tx2872	Tx. Agri. Exp. Stat.	Wt	P	ML	59	42	3	26.7	0.0	10.0	4172	A-E
A1 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	60	44	2	13.3	0.0	10.1	4171	A-E
A35 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	60	42	3	0.0	0.0	10.9	4166	A-F
A35 x GR107-90M15	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	60	43	4	0.0	0.0	10.4	4165	A-F
857	Cargill Hybrid Seeds	Bz	P	ML	56	38	3	6.7	0.0	10.6	4151	A-F
X10216	Cargill Hybrid Seeds	Bz	P	M	54	40	4	10.0	0.0	10.2	4108	A-F
Quest	ORO Hybrids-R.C. Young	Bz	P	ML	55	37	3	0.0	0.0	10.3	4063	A-G
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	Bz	P	ML	54	36	3	0.0	0.0	10.2	4017	A-H
A35 x Tx2864	Tx. Agri. Exp. Stat.	Wt	P	ML	58	43	3	0.0	0.0	10.1	3983	A-I
ATx2755 x MR120-90M8	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	55	46	4	3.3	0.0	9.9	3972	A-I
HSC Cherokee	HyPerformer Seed Co.	R	*	M	59	39	2	6.7	0.0	10.1	3966	A-I
8446	Pioneer Hi-Bred Int., Inc.	Bz	P	M	54	39	3	3.3	0.0	10.3	3948	A-J
A1 x Tx430	Tx. Agri. Exp. Stat.	Ct	P	ML	58	43	2	0.0	0.0	10.0	3926	A-J
KS 710	Northrup King Co.	R	*	ML	53	35	3	3.3	3.3	9.9	3918	A-J
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	Rt	P	ML	54	38	4	10.0	0.0	10.1	3911	A-J
CHECK	Tx. Agri. Exp. Stat.	Bz	P	M	56	42	3	3.3	0.0	10.3	3872	A-K
A35 x GR107-90M16	Tx. Agri. Exp. Stat.	Rt	P	ML	62	44	3	0.0	0.0	10.5	3870	A-L
SG-651	Garrison & Townsend, Inc.	Ct	T	ME	54	42	3	5.0	0.0	10.1	3858	A-L
1506	Delta and Pine Land Co.	Ct	P	M	59	43	4	0.0	0.0	10.2	3854	A-L
A35 x (Tx430 x R9188)	Tx. Agri. Exp. Stat.(DR)	Rt	P	ML	64	43	4	0.0	0.0	10.0	3852	A-L
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	55	37	3	3.3	0.0	10.1	3837	A-L
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	60	43	3	6.7	0.0	10.3	3827	A-M
SG-822	Garrison & Townsend, Inc.	Ct	T	M	56	42	4	16.7	0.0	10.4	3789	A-M
A1 x Tx2794	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	57	44	3	16.7	0.0	10.2	3783	A-M

Table 10A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Lodge	% Bird	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	53	36	1	3.3	0.0	10.4	3783	A-M
GSC 3622	Gro Agri Seed Co.	Ct	P	ME	52	37	2	0.0	0.0	10.2	3775	A-M
Jacques 444E	Jacques Seed Co.	Bz	P	M	55	37	2	0.0	0.0	9.9	3764	A-M
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	57	41	3	21.7	0.0	10.4	3748	A-M
X8930	Northrup King Co.	Ct	*	M	53	35	1	0.0	0.0	10.2	3736	A-M
KS 383Y	Northrup King Co.	Ct	*	ME	53	34	1	3.3	0.0	10.2	3734	A-M
ATx2755 x Tx2767	Tx. Agri. Exp. Stat.	Rt	P	ML	59	41	3	0.0	0.0	10.2	3726	A-M
ATx631 x R8511	Tx. Agri. Exp. Stat.	Wt	T	ML	61	42	3	20.0	0.0	10.5	3701	A-M
A1 x Tx2737	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	55	44	2	20.0	0.0	10.1	3658	A-N
A35 x Tx2868	Tx. Agri. Exp. Stat.	Wt	P	ML	61	44	4	0.0	0.0	9.9	3633	A-N
T-E Gage	Taylor-Evans Seed Co.	Ct	P	M	54	41	2	0.0	0.0	10.1	3633	A-N
SG-858	Garrison & Townsend, Inc.	R	P	M	59	36	2	6.7	0.0	10.4	3632	A-N
ATx2755 x MR112-90M4	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	57	42	3	20.0	0.0	10.4	3616	A-O
Honcho	HyPerformer Seed Co.	Bz	*	ME	54	37	2	5.0	0.0	10.1	3616	A-O
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	56	46	3	25.0	0.0	10.0	3616	A-O
8452	Pioneer Hi-Bred Int., Inc.	Bz	P	M	53	38	4	0.0	0.0	10.3	3613	A-O
Jacques 375-W	Jacques Seed Co.	Ct	P	ME	53	42	3	0.0	0.0	10.2	3597	A-O
CHECK	Tx. Agri. Exp. Stat.	Y	P	M	57	38	2	15.0	0.0	10.4	3591	A-O
HSC 89-3	HyPerformer Seed Co.	Bz	*	M	56	39	3	3.3	0.0	10.5	3584	A-O
A35 x P37-1	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	61	44	4	0.0	0.0	9.8	3583	A-O
A35 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	63	41	3	0.0	0.0	10.2	3553	A-O
A35 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	60	43	3	0.0	0.0	10.3	3525	A-O
ATx2801 x MR112-90M4	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	60	46	4	33.3	0.0	10.1	3518	A-O
ICI/Garst 5522y	ICI Seeds (Garst Seed Co.)	Ct	P	M	56	43	3	13.3	0.0	10.0	3514	A-O
F-270G	Frontier Hybrids, Inc.	Bz	T	ME	52	40	3	16.7	0.0	10.0	3459	A-O
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	63	41	3	0.0	0.0	10.3	3452	A-O
ATx2801 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	61	40	2	10.0	0.0	10.1	3433	A-O
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	Bz	P	M	56	41	4	0.0	0.0	10.1	3425	A-O
A35 x GR107A-90M20	Tx. Agri. Exp. Stat.	Rt	P	ML	59	41	3	0.0	0.0	9.8	3420	A-O
A807 x R3224(t)	Tx. Agri. Exp. Stat.(DR)	Rt	P	M	61	41	2	10.0	0.0	10.0	3418	A-O

Table 10A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days		Head			Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
					To 50% Flower	Plant Height Inches	Exser- tion Inches	% Lodge	% Bird			
A35 x GR107A-90M19	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	62	42	3	0.0	0.0	10.1	3412	A-O
SG-833	Garrison & Townsend, Inc.	Bz	R	M	56	36	3	0.0	0.0	10.2	3406	A-O
A1 x P37-1	Tx. Agri. Exp. Stat.(DR)	Ct	P	M	57	43	3	36.7	0.0	10.3	3392	A-O
A35 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	62	45	5	0.0	0.0	9.9	3378	A-O
T-E 9118-X	Taylor-Evans Seed Co.	Ct	P	M	54	38	2	6.7	0.0	10.3	3360	A-O
ATx2755 x Tx2872	Tx. Agri. Exp. Stat.	Rt	P	ML	56	41	3	16.7	0.0	10.3	3342	A-O
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	62	42	2	6.7	0.0	10.6	3338	A-O
DEKALB DK-38y	DEKALB Plant Genetics	Y	P	ME	53	36	3	0.0	0.0	10.2	3261	A-O
GSC 1214E	Gro Agri Seed Co.	Ct	P	ME	53	41	3	3.3	0.0	9.9	3242	A-P
ATx3042 x Tx2737	Tx. Agri. Exp. Stat.	Bz	P	E	52	41	4	13.3	0.0	10.0	3237	A-P
1482	Delta and Pine Land Co.	Bz	P	ME	56	37	3	0.0	0.0	10.5	3233	A-P
607E	Cargill Hybrid Seeds	Bz	P	ME	53	38	3	6.7	0.0	10.0	3216	A-P
T-E Eden	Taylor-Evans Seed Co.	R	P	ME	52	35	1	3.3	0.0	9.7	3171	B-P
ATx2801 x MR112-90M6	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	59	44	4	23.3	0.0	10.2	3153	C-P
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	67	43	3	0.0	0.0	10.6	3139	D-P
ATx2755 x MR112-90M6	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	58	43	3	53.3	0.0	10.1	3133	D-P
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	59	44	3	11.7	0.0	10.0	3118	E-P
Sprint	Richardson Seeds, Inc.	Rt	R	E	50	42	4	16.7	0.0	10.2	3098	F-Q
A35 x Tx2783	Tx. Agri. Exp. Stat.	Rt	P	ML	64	44	3	0.0	0.0	10.3	3012	G-Q
X55830	Richardson Seeds, Inc.	Rt	R	E	53	44	3	10.0	0.0	10.4	2948	H-Q
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	65	41	3	0.0	0.0	9.9	2933	I-Q
ORO Edge	ORO Hybrids-R.C. Young	Bz	P	ME	52	33	2	0.0	0.0	10.3	2931	I-Q
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	66	41	3	0.0	0.0	9.9	2888	J-Q
ABON44 x R8505	Tx. Agri. Exp. Stat.(DR)	Wt	T	ML	61	43	4	8.3	0.0	10.3	2829	K-R
GSC 3159	Gro Agri Seed Co.	Bz	P	ME	52	33	1	2.0	0.0	10.1	2802	L-R
ORO Ivory	ORO Hybrids-R.C. Young	Ct	P	M	53	41	2	20.0	0.0	10.3	2764	M-R
W-528-W	GEORGE WARNER SEED CO.	Ct	R	ME	56	42	3	68.3	0.0	10.2	2621	N-R
A35 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	65	48	5	0.0	0.0	10.4	2558	O-R
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	67	43	4	3.3	0.0	10.0	2207	P-R
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	67	43	2	0.0	3.3	10.5	2094	Q-R

Table 10A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Lodge	% Bird	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	66	45	2	0.0	0.0	10.0	1872	R

Test Mean = 3,534 Test C. V. = 14.6 LSD .05 = 831.8

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

1 NC+ Hybrids NC+ 271 and DeKalb DK-41Y were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

2 Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

3 Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

4 Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

5 LEAF AND PLANT DEATH RATING: 1=no leaf and plant death 5=leaves and stem completely dead.

6 Duncan's multiple range test was used at the .05 level.

Table 10B. Three-year summary, Dryland Grain Sorghum Performance Test, Lubbock, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
797	Cargill Hybrid Seeds	1	4246	-	-	-	-
dk 750y	DOUGLASS W. KING CO, INC	2	4229	-	-	-	-
T-E Sonora	Taylor-Evans Seed Co.	3	4227	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	4	4218	37	2223	76	1067
A1 x R8503	Tx. Agri. Exp. Stat.(DR)	5	4191	39	2128	72	1089
DEKALB DK-40y	DEKALB Plant Genetics	6	4177	12	2624	33	1823
ATx2801 x Tx2872	Tx. Agri. Exp. Stat.	7	4172	-	-	-	-
A1 x 89CC443	Tx. Agri. Exp. Stat.(DR)	8	4171	-	-	-	-
A35 x GR134-90M50	Tx. Agri. Exp. Stat.(GP)	9	4166	-	-	-	-
A35 x GR107-90M15	Tx. Agri. Exp. Stat.(GP)	10	4165	-	-	-	-
857	Cargill Hybrid Seeds	11	4151	49	1920	-	-
X10216	Cargill Hybrid Seeds	12	4108	-	-	-	-
Quest	ORO Hybrids-R.C. Young	13	4063	-	-	-	-
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	14	4017	55	1639	6	2321
A35 x Tx2864	Tx. Agri. Exp. Stat.	15	3983	51	1851	-	-
ATx2755 x MR1120-90M8	Tx. Agri. Exp. Stat.(GP)	16	3972	-	-	-	-
HSC Cherokee	HyPerformer Seed Co.	17	3966	-	-	-	-
8446	Pioneer Hi-Bred Int., Inc.	18	3948	-	-	-	-
A1 x Tx430	Tx. Agri. Exp. Stat.(DR)	19	3926	32	2306	18	2061
KS 710	Northrup King Co.	20	3918	54	1681	14	2132
ATx2755 x Tx2880	Tx. Agri. Exp. Stat.	21	3911	-	-	-	-
CHECK (DK-46)		22	3872	50	1880	57	1405
A35 x GR107-90M16	Tx. Agri. Exp. Stat.(GP)	23	3870	25	2374	-	-
SG-651	Garrison & Townsend, Inc.	24	3858	-	-	-	-
1506	Delta and Pine Land Co.	25	3854	46	1963	-	-
A35 x (Tx430 x R9188)	Tx. Agri. Exp. Stat.(DR)	26	3852	48	1937	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	27	3837	34	2270	81	799
ATx378 x RTx430	Tx. Agri. Exp. Stat.	28	3827	15	2503	49	1611
SG-822	Garrison & Townsend, Inc.	29	3789	-	-	17	2067
A1 x Tx2794	Tx. Agri. Exp. Stat.(DR)	30	3783	14	2512	9	2268

Table 10B. Lubbock-Dryland. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	31	3783	27	2354	67	1178
GSC 3622	Gro Agri Seed Co.	32	3775	-	-	-	-
Jacques 444E	Jacques Seed Co.	33	3764	-	-	-	-
ATx2755 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	34	3748	-	-	-	-
X8930	Northrup King Co.	35	3736	-	-	-	-
KS 383Y	Northrup King Co.	36	3734	-	-	-	-
ATx2755 x Tx2767	Tx. Agri. Exp. Stat.	37	3726	-	-	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	38	3701	-	-	-	-
A1 x Tx2737	Tx. Agri. Exp. Stat.(DR)	39	3658	5	2771	12	2169
A35 x Tx2868	Tx. Agri. Exp. Stat.	40	3633	52	1793	-	-
T-E Gage	Taylor-Evans Seed Co.	41	3633	-	-	-	-
SG-858	Garrison & Townsend, Inc.	42	3632	-	-	-	-
ATx2755 x MR112-90M4	Tx. Agri. Exp. Stat.(GP)	43	3616	-	-	-	-
Honcho	HyPerformer Seed Co.	44	3616	-	-	-	-
A1 x P46-1	Tx. Agri. Exp. Stat.(DR)	45	3616	41	2103	-	-
8452	Pioneer Hi-Bred Int., Inc.	46	3613	3	2861	3	2380
Jacques 375-W	Jacques Seed Co.	47	3597	-	-	-	-
CHECK (DK-41y)		48	3591	1	2917	25	2000
HSC 89-3	HyPerformer Seed Co.	49	3584	-	-	-	-
A35 x P37-1	Tx. Agri. Exp. Stat.	50	3583	-	-	-	-
A35 x GR107A-90M18	Tx. Agri. Exp. Stat.(GP)	51	3553	-	-	-	-
A35 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	52	3525	-	-	-	-
ATx2801 x MR112-90M4	Tx. Agri. Exp. Stat.(GP)	53	3518	-	-	-	-
ICI/Garst 5522y	ICI Seeds (Garst Seed Co.)	54	3514	22	2390	-	-
F-270G	Frontier Hybrids, Inc.	55	3459	24	2389	20	2053
A35 x 89CC443	Tx. Agri. Exp. Stat.(DR)	56	3452	59	1095	-	-
ATx2801 x MR102-90M2	Tx. Agri. Exp. Stat.(GP)	57	3433	-	-	-	-
A35 x Tx430	Tx. Agri. Exp. Stat.(DR)	58	3425	21	2439	35	1787
A35 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	59	3420	-	-	-	-
A807 x R324(t)	Tx. Agri. Exp. Stat.(DR)	60	3418	-	-	-	-

Table 10B. Lubbock-Dryland. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A35 x GR107A-90M19	Tx. Agri. Exp. Stat.(GP)	61	3412	-	-	-	-
SG-833	Garrison & Townsend, Inc.	62	3406	-	-	-	-
A1 x P37-1	Tx. Agri. Exp. Stat.(DR)	63	3392	-	-	-	-
A35 x GR116-90M34	Tx. Agri. Exp. Stat.(GP)	64	3378	-	-	-	-
T-E 9118-X	Taylor-Evans Seed Co.	65	3360	-	-	-	-
ATx2755 x Tx2872	Tx. Agri. Exp. Stat.	66	3342	-	-	-	-
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	67	3338	-	-	-	-
DEKALB DK-38y	DEKALB Plant Genetics	68	3261	-	-	-	-
GSC 1214E	Gro Agri Seed Co.	69	3242	9	2676	38	1750
ATx3042 x Tx2737	Tx. Agri. Exp. Stat.	70	3237	10	2648	40	1743
1482	Delta and Pine Land Co.	71	3233	-	-	-	-
607E	Cargill Hybrid Seeds	72	3216	38	2180	29	1886
T-E Eden	Taylor-Evans Seed Co.	73	3171	31	2322	19	2055
ATx2801 x MR112-90M6	Tx. Agri. Exp. Stat.(GP)	74	3153	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	75	3139	-	-	-	-
ATx2755 x MR112-90M6	Tx. Agri. Exp. Stat.(GP)	76	3133	-	-	-	-
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	77	3118	-	-	-	-
Sprint	Richardson Seeds, Inc.	78	3098	-	-	-	-
A35 x Tx2783	Tx. Agri. Exp. Stat.	79	3012	57	1359	26	1990
X55830	Richardson Seeds, Inc.	80	2948	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	81	2933	-	-	-	-
ORO Edge	ORO Hybrids_R.C. Young	82	2931	-	-	-	-
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	83	2888	-	-	-	-
ABON44 x R8505	Tx. Agri. Exp. Stat.(DR)	84	2829	-	-	-	-
GSC 3159	Gro Agri Seed Co.	85	2802	20	2445	2	2454
ORO Ivory	ORO Hybrids-R.C. Young	86	2764	6	2762	66	1187
W-528-W	GEORGE WARNER SEED CO.	87	2621	-	-	-	-
A35 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	88	2558	-	-	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	89	2207	-	-	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	90	2094	-	-	-	-

Table 10B. Lubbock-Dryland. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	91	1872	-	-	-	-
618Y	Cargill Hybrid Seeds	-	-	2	2862	13	2136
A1 x P37-3	Tx. Agri. Exp. Stat.(DR)	-	-	4	2834	22	2022
Rio Bravo	Western Heritage Seed Co.	-	-	13	2534	39	1743
T-E Y-60	Taylor-Evans Seed Co.	-	-	16	2476	45	1643
Rio Grande	Western Heritage Seed Co.	-	-	18	2464	61	1313
Jacques 377-W	Jacques Seed Co.	-	-	19	2457	27	1954
KS 714Y	Northrup King Co.	-	-	26	2371	15	2113
T-E X150	Taylor-Evans Seed Co.	-	-	28	2353	30	1854
SENECA	ASGROW SEED CO.	-	-	33	2282	8	2286
F-300G	Frontier Hybrids, Inc.	-	-	35	2236	69	1149
630	Cargill Hybrid Seeds	-	-	36	2235	50	1548
G-1492	Delta and Pine Land Co.	-	-	43	2040	75	1069
KS 710	Northrup King Co.	-	-	54	1681	14	2132
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	-	-	56	1527	62	1294
Number of Entries:		91		61		82	
Test Mean Yield:			3534		2200		1673

Note: Hybrids with the same yields were ranked by computer.

TABLE 11.

AGRONOMIC AND TEST INFORMATION: DUMAS

TEST:	1992 Irrigated Grain Sorghum Performance Test
LOCATION:	Tri-C Farms, Dumas, Texas
COOPERATORS:	Joe Cox, Buddy Cox, Mike Cox, Dennis Pietsch, Randy Gaas, Leon Synatschk, and Robert Harris
SOIL TYPE:	Sherman silty clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Wheat
LAND PREPARATION:	disked, sweep, chiseled, and bedded
DATE PLANTED:	5-20-92, by hand
DATE THINNED:	6-24-92; thinned to approximately 90,000 plants/acre
PLOT LENGTH:	25'
FERTILIZER:	Applied 250 lb/A of Anhydrous Ammonia pre-plant and 100 lb/A of 11-52-0 + 4lb/A Zinc pre-plant
HERBICIDE:	Applied 1.25 lb/A of AAtrex 90 (atrazine)
INSECTICIDE:	8-19-92: Applied 1 pt/A Lorsban for greenbug control
IRRIGATIONS:	Pre-plant and 3 irrigations of approximately 4"/irrigation
DATE HARVESTED:	10-21-92 with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows-25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	80
NUMBER REPLICATIONS:	3
NUMBER ROWS/PLOT:	2
TEST MEAN:	9,595 lb/A; yields corrected to 13% moisture
TEST C. V.:	6.9 percent

GENERAL INFORMATION: Near-perfect conditions throughout the growing season resulted in outstanding yields at this site. An excellent seedbed was available for the May 20 planting date which is considered to be optimum for this area. Seedling emergence was rapid and excellent stands were attained. Excellent plant growth resulted from above normal rainfall and a timely irrigation schedule throughout the growing season.

The test mean yield was 9,595 lb/A compared to the past three year average of 7,746 lb/A. It is interesting to note that 26 hybrids in the test produced over 10,000 lb/A. Test weights were incredible with the range being from 58.9 lb/bu to 64.8 lb/bu as reflected in the following Table. This was a very uniform test as indicated by the low coefficient of variation (6.9%). The test was harvested with a MF 8 plot combine equipped with electronic equipment that measured plot weight, moisture, and test weight. A freeze was recorded at the test site approximately two weeks prior to harvest, thus moisture content at harvest was virtually the same for all hybrids.

Bird damage was observed, particularly in the earlier maturing hybrids, but damage was minimal. Greenbugs were also observed but controlled by applying the insecticide Lorsban.

Appreciation is expressed to Norman Wuthrich, Research Associate, Texas A&M University Research and Extension Center, Halfway, Texas for recording flowering notes at the appropriate time.

Table 11A. GRAIN SORGHUM PERFORMANCE TEST; DUMAS, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days		Head			Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
					To 50% Flower	Plant Height Inches	Exser- tion Inches	% Bird	Test Weight lb/bu			
DEKALB DK-66	DEKALB Plant Genetics	Bz	P	L	82	59	5	0.0	64.8	14.5	12234	A
SG-942	Garrison & Townsend, Inc.	Bz	P	L	78	55	3	0.0	64.6	14.4	11706	A-B
T-E 9121-X	Taylor-Evans Seed Co.	R	P	ML	75	57	4	0.3	64.3	14.0	11230	A-C
Jacques 611E	Jacques Seed Co.	Bz	P	ML	77	53	5	0.0	63.2	14.0	10891	B-D
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	77	51	6	0.0	62.2	14.0	10811	B-E
KS 936	Northrup King Co.	R	*	L	82	62	8	0.0	63.3	14.1	10742	B-F
T-E 77E	Taylor-Evans Seed Co.	B	P	L	76	51	4	0.3	63.1	14.0	10738	B-F
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	80	58	8	0.0	61.7	14.3	10683	B-G
ORO G Xtra	ORO Hybrids-R.C. Young	Bz	P	ML	79	50	5	0.0	62.8	14.0	10678	B-G
W-816-E	GEORGE WARNER SEED CO.	R	R	M	77	52	4	0.7	63.1	13.8	10646	B-G
W-917-E	GEORGE WARNER SEED CO.	R	R	ML	77	56	5	0.0	63.2	14.0	10643	B-G
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	Bz	P	ML	74	49	7	1.7	62.8	13.7	10506	B-H
Rustler	Conlee Seed Co., Inc.	R	P	M	77	52	5	0.0	62.3	14.1	10500	B-H
X37029	Cargill Hybrid Seeds	Bz	P	ML	77	46	5	0.0	61.4	13.9	10499	B-H
837	Cargill Hybrid Seeds	Bz	P	ML	76	51	6	1.0	62.4	13.9	10443	BI
W-902-W	GEORGE WARNER SEED CO.	Wt	T	ML	79	60	9	0.0	62.9	14.2	10403	BI
DEKALB X-292	DEKALB Plant Genetics	Bz	P	L	83	57	4	0.0	63.2	14.4	10385	BI
F-524	Frontier Hybrids, Inc.	Bz	T	ML	77	53	5	0.0	62.4	14.0	10384	BI
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	Rt	P	ML	77	52	6	0.0	63.1	14.1	10357	C-J
GSC 3605	Gro Agri Seed Co.	W	R	ML	77	52	6	0.0	62.8	14.2	10226	C-K
ATx2752 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	81	59	7	0.0	63.4	14.2	10178	C-K
GSC 1313	Gro Agri Seed Co.	R	P	M	76	51	4	0.3	61.8	13.9	10171	C-K
AVar x 86EON361	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	75	61	7	0.0	62.2	13.7	10161	C-K
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	Wt	T	ML	81	60	8	0.0	62.8	14.1	10075	C-K
857	Cargill Hybrid Seeds	Bz	P	ML	76	47	5	0.0	62.6	13.9	10061	C-K
ORO EXP. 9211	ORO Hybrids-R.C. Young	Bz	P	ML	80	52	5	0.0	62.2	14.0	10008	C-L
ATx378 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	81	60	7	0.0	62.1	14.0	9986	C-M
DEKALB X-156	DEKALB Plant Genetics	Bz	P	ML	81	55	5	0.0	61.7	14.0	9957	C-M
ORO Amigo	ORO Hybrids-R.C. Young	Bz	P	ML	78	53	4	0.0	61.4	14.0	9930	C-M
DEKALB DK-56	DEKALB Plant Genetics	R	P	ML	75	54	9	1.0	63.1	14.0	9909	C-M

Table 11A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Bird	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
797	Cargill Hybrid Seeds	Bz	P	M	77	45	5	0.0	60.7	13.8	9898	C-M
CHECK	Tx. Agri. Exp. Stat.	*	*	*	75	50	6	0.0	62.0	14.0	9892	C-N
SG-925	Garrison & Townsend, Inc.	R	P	ML	76	50	4	0.0	61.6	13.8	9861	D-O
2665	Northrup King Co.	R	*	ML	76	47	3	0.0	60.9	14.0	9853	D-O
SG-821	Garrison & Townsend, Inc.	Ct	T	ML	78	53	8	0.0	62.0	14.0	9844	D-O
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	W	T	L	78	52	6	0.0	62.7	13.8	9827	D-P
CHECK	Tx. Agri. Exp. Stat.	Bz	P	L	79	49	7	0.0	61.7	13.9	9825	D-P
1506	Delta and Pine Land Co.	Ct	P	M	74	56	10	16.0	62.3	13.9	9790	D-P
CHECK	Tx. Agri. Exp. Stat.	Bz	P	ML	75	46	6	0.3	62.1	13.8	9775	D-P
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	Wt	T	ML	75	49	6	6.7	61.0	13.7	9765	D-P
AVar x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	77	60	6	0.0	62.9	13.8	9746	D-P
SG-822	Garrison & Townsend, Inc.	Ct	T	M	76	50	6	0.0	62.0	14.0	9706	D-Q
GSC 3624	Gro Agri Seed Co.	Ct	P	ML	77	50	7	0.0	62.4	13.9	9673	D-R
SPB16908X	Seed Source, Inc.	Bz	P	M	75	51	7	1.3	60.9	13.9	9660	D-R
GSC 3285X	Gro Agri Seed Co.	Bz	P	ML	81	53	5	0.0	61.1	13.9	9631	D-R
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	78	53	7	0.0	61.1	13.9	9558	D-S
T-E Y-75	Taylor-Evans Seed Co.	Rt	P	M	77	51	5	0.0	61.2	13.8	9507	E-S
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	77	49	4	0.0	61.3	13.9	9505	E-S
AVar x 89CC443	Tx. Agri. Exp. Stat.(DR)	Wt	T	L	75	58	7	0.0	63.3	13.7	9446	E-T
G-1616	Delta and Pine Land Co.	Bz	P	ML	74	54	6	4.3	60.4	13.7	9431	F-T
NC+ 573E	NC+ Hybrids	R	*	M	77	48	4	0.0	61.5	13.9	9422	F-T
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	Bz	P	ML	77	50	6	0.0	61.6	13.9	9376	F-U
ATx2792 x Tx2868	Tx. Agri. Exp. Stat.	Rt	P	ML	77	51	7	0.0	62.6	14.0	9358	G-U
Jacques 444E	Jacques Seed Co.	Bz	P	M	75	50	6	0.0	60.8	13.9	9338	G-U
GSC 1310AE	Gro Agri Seed Co.	Bz	P	ML	76	46	6	0.0	62.6	13.8	9261	H-U
ATx399 x RTx430	Tx. Agri. Exp. Stat.	Bz	P	ML	75	48	4	0.0	60.3	13.8	9251	H-U
W-632-W	GEORGE WARNER SEED CO.	Wt	R	M	76	49	7	0.0	62.4	13.9	9224	H-U
NC+ 7B81E	NC+ Hybrids	Bz	*	M	79	43	4	0.0	61.6	13.9	9162	H-V
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	76	51	5	0.0	62.4	14.0	9088	I-W
A1 x Tx2862	Tx. Agri. Exp. Stat.	Rt	P	ML	75	54	5	0.0	62.5	14.0	9087	I-W

Table 11A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Plant Color ***	Matu- rity Class ****	Days To 50% Flower	Plant Height Inches	Head Exser- tion Inches	% Bird	Test Weight lb/bu	Mois- ture %	Yield lb/A	Stat. Sig., 0.05 *****
NC+ 472	NC+ Hybrids	Bz	*	M	76	46	3	0.0	59.5	13.8	8996	J-W
Top Hand II	Conlee Seed Co., Inc.	Bz	P	M	76	47	6	0.0	60.1	13.7	8973	K-W
SPB11905X	Seed Source, Inc.	R	P	M	78	47	6	0.0	60.8	13.7	8652	L-X
ATx2752 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	77	49	4	0.0	60.7	13.8	8638	L-X
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	Bz	P	ML	77	46	7	0.0	61.0	13.8	8620	M-X
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	Wt	T	M	81	54	8	0.0	61.4	14.0	8527	N-X
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	79	52	11	0.0	60.4	13.6	8518	O-X
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	Rt	R	ML	81	50	7	0.0	59.7	13.7	8464	P-X
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	Rt	P	ML	79	54	9	0.0	59.1	13.6	8358	Q-X
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	Bz	P	ML	76	47	4	0.0	59.1	13.7	8346	R-X
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	Wt	P	ML	74	51	5	0.0	60.7	13.7	8328	R-X
ATx2792 x Tx2864	Tx. Agri. Exp. Stat.	Rt	P	ML	77	48	5	0.0	59.1	13.7	8243	S-X
F-333Y	Frontier Hybrids, Inc.	Y	T	M	76	49	6	0.0	58.9	13.4	8238	S-X
SPB14933X	Seed Source, Inc.	R	P	M	75	50	7	0.7	59.4	13.6	8203	S-X
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	78	54	8	0.0	60.5	13.6	8147	T-X
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	Rt	P	ML	81	46	5	0.0	61.2	14.0	8036	U-X
CHECK	Tx. Agri. Exp. Stat.	Ct	P	M	75	49	6	6.7	61.2	13.7	7877	V-X
RS200E	Richardson Seeds, Inc.	Rt	R	ME	75	46	5	1.0	58.9	13.5	7755	W-X
SPB11936X	Seed Source, Inc.	R	P	M	81	55	6	0.0	59.5	13.6	7539	X
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	Rt	T	M	79	49	8	0.0	59.3	13.8	7463	X

Test Mean = 9595 Test C. V. = 6.9 LSD .05 = 1068.0

Note 1: The ANOVA procedure was used for statistical analysis.

Note 2: Hybrid names starting or ending with an "X" denote a commercial experimental. Hybrids entered by the Texas Agricultural Experiment Station are either in the experimental stage or being tested as experimental check hybrids. Individuals may contact respective seed companies for the availability of planting seed for the upcoming crop year.

Table 11A. (CONTINUED)

* Northrup King KS737, Pioneer 8195, Pioneer 8379, and Taylor-Evans T-E Gage were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: R=Red Br=Brown Bz=Bronze Rt=Red translucent W=White Wt=White translucent Ct=Cream Translucent.

*** Plant color designated by respective seed companies: T=Tan R=Red P=Purple. Those hybrids designated with an asterisk (*) indicates company did not submit plant color.

**** Maturity classification for hybrids designated by the respective seed companies: E=Early M=Medium ML=Medium Late L=Late.

***** Duncan's multiple range test was used at the .05 level.

Table 11B. Three-year summary, Grain Sorghum Performance Test, Dumas, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DEKALB DK-66	DEKALB Plant Genetics	1	12234	1	10029	1	8798
SG-942	Garrison & Townsend, Inc.	2	11706	3	9637	20	7942
T-E 9121-X	Taylor-Evans Seed Co.	3	11230	-	-	-	-
Jacques 611E	Jacques Seed Co.	4	10891	-	-	-	-
ATx2752 x RTx430	Tx. Agri. Exp. Stat.	5	10811	57	8055	-	-
KS 936	Northrup King Co.	6	10742	-	-	-	-
T-E 77E	Taylor-Evans Seed Co.	7	10738	24	8756	40	7470
A8610 x R8505	Tx. Agri. Exp. Stat.(FM)	8	10683	5	9528	-	-
ORO G Xtra	ORO Hybrids-R.C. Young	9	10678	6	9510	21	7927
W-816-E	GEORGE WARNER SEED CO.	10	10646	-	-	-	-
W-917-E	GEORGE WARNER SEED CO.	11	10643	4	9565	14	8026
A4R x Tx430	Tx. Agri. Exp. Stat.(DR)	12	10506	40	8474	11	8081
Rustler	Conlee Seed Co., Inc.	13	10500	16	9016	49	7328
X37029	Cargill Hybrid Seeds	14	10499	-	-	-	-
837	Cargill Hybrid Seeds	15	10443	30	8666	-	-
W-902-W	GEORGE WARNER SEED CO.	16	10403	9	9369	-	-
DEKALB X-292	DEKALB Plant Genetics	17	10385	-	-	-	-
F-524	Frontier Hybrids, Inc.	18	10384	28	8688	63	7078
ATx2792 x Tx2862	Tx. Agri. Exp. Stat.	19	10357	-	-	-	-
GSC 3605	Gro Agri Seed Co.	20	10226	18	8885	4	8238
ATx2752 x GR126-90M36	Tx. Agri. Exp. Stat.(GP)	21	10178	-	-	-	-
GSC 1313	Gro Agri Seed Co.	22	10171	45	8315	42	7451
AVar x 86EON361	Tx. Agri. Exp. Stat.(DR)	23	10161	83	7065	-	-
ATx631 x R8511	Tx. Agri. Exp. Stat.(FM)	24	10075	10	9342	9	8088
857	Cargill Hybrid Seeds	25	10061	66	7873	-	-
ORO EXP. 9211	ORO Hybrids-R.C. Young	26	10008	-	-	-	-
ATx378 x RTx430	Tx. Agri. Exp. Stat.	27	9986	29	8667	35	7545
DEKALB X-156	DEKALB Plant Genetics	28	9957	-	-	-	-
ORO Amigo	ORO Hybrids-R.C. Young	29	9930	36	8543	27	7715
DEKALB DK-56	DEKALB Plant Genetics	30	9909	65	7910	32	7589
797	Cargill Hybrid Seeds	31	9898	-	-	-	-
CHECK (KS 737)		32	9892	33	8607	77	6475
SG-925	Garrison & Townsend, Inc.	33	9861	-	-	-	-

Table 11B. Dumas, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
2665	Northrup King Co.	34	9853	55	8059	50	7322
SG-821	Garrison & Townsend, Inc	35	9844	-	-	-	-
ABON23 x 86EON361	Tx. Agri. Exp. Stat.(DR)	36	9827	-	-	-	-
CHECK (8195)		37	9825	-	-	-	-
1506	Delta and Pine Land Co.	38	9790	37	8541	-	-
CHECK (8379)		39	9775	76	7526	19	7954
ABON34 x 86EON361	Tx. Agri. Exp. Stat.(DR)	40	9765	-	-	-	-
AVar x 87EON366sis	Tx. Agri. Exp. Stat.(DR)	41	9746	-	-	-	-
SG-822	Garrison & Townsend, Inc.	42	9706	-	-	31	7618
GSC 3624	Gro Agri Seed Co.	43	9673	-	-	-	-
SPB16908X	Seed Source, Inc.	44	9660	-	-	-	-
GSC 3285X	Gro Agri Seed Co.	45	9631	-	-	-	-
A8618 x RTx2783	Tx. Agri. Exp. Stat.(FM)	46	9558	15	9040	-	-
T-E Y-75	Taylor-Evans Seed Co.	47	9507	38	8478	57	7170
ATx2752 x GR134A-90M50	Tx. Agri. Exp. Stat.(GP)	48	9505	-	-	-	-
AVar x 89CC443	Tx. Agri. Exp. Stat.(DR)	49	9446	-	-	-	-
G-1616	Delta and Pine Land Co.	50	9431	62	7979	26	7718
NC+ 573E	NC+ Hybrids	51	9422	54	8068	-	-
ICI/Garst 5392	ICI Seeds (Garst Seed Co.)	52	9376	50	8144	-	-
ATx2792 x Tx2868	Tx. Agri. Exp. Stat.	53	9358	-	-	-	-
Jacques 444E	Jacques Seed Co.	54	9338	-	-	-	-
GSC 1310AE	Gro Agri Seed Co.	55	9261	-	-	-	-
ATx399 x RTx430	Tx. Agri. Exp. Stat.	56	9251	75	7625	62	7121
W-632-W	GEORGE WARNER SEED CO.	57	9224	-	-	61	7139
NC+ 7B81E	NC+ Hybrids	58	9162	22	8776	-	-
A1 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	59	9088	-	-	-	-
A1 x Tx2862	Tx. Agri. Exp. Stat.	60	9087	-	-	-	-
NC+ 472	NC+ Hybrids	61	8996	64	7951	-	-
Top Hand II	Conlee Seed Co., Inc.	62	8973	-	-	-	-
SPB11905X	Seed Source, Inc.	63	8652	-	-	-	-
ATx2752 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	64	8638	-	-	-	-
ATx399 x Tx2737	Tx. Agri. Exp. Stat.	65	8620	81	7352	58	7167
ATxARG-1 x R8505	Tx. Agri. Exp. Stat.(FM)	66	8527	-	-	-	-

Table 11B. Dumas, Texas. (Continued)

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
A8618 x RTx434	Tx. Agri. Exp. Stat.(FM)	67	8518	-	-	-	-
A8618 x 91C1988	Tx. Agri. Exp. Stat.(FM)	68	8464	-	-	-	-
A8618 x R6956	Tx. Agri. Exp. Stat.(FM)	69	8358	14	9053	-	-
ATx399 x Tx2536	Tx. Agri. Exp. Stat.	70	8346	77	7510	2	8487
A1 x GR134A-90M49	Tx. Agri. Exp. Stat.(GP)	71	8328	-	-	-	-
ATx2792 x Tx2864	Tx. Agri. Exp. Stat.	72	8243	68	7846	-	-
F-333Y	Frontier Hybrids, Inc.	73	8238	72	7703	-	-
SPB14933X	Seed Source, Inc.	74	8203	-	-	-	-
ATx631 x R9021	Tx. Agri. Exp. Stat.(FM)	75	8147	-	-	-	-
ATx2752 x GR107A-90M20	Tx. Agri. Exp. Stat.(GP)	76	8036	74	7644	-	-
CHECK (T-E Gage)		77	7877	-	-	-	-
RS200E	Richardson Seeds, Inc.	78	7755	-	-	-	-
SPB11936X	Seed Source, Inc.	79	7539	-	-	-	-
ATxARG-1 x 90T308	Tx. Agri. Exp. Stat.(FM)	80	7463	-	-	-	-
ATx631 x 80C2241	Tx. Agri. Exp. Stat.(FM)	-	-	2	9776	55	7189
A1 x Tx2783	Tx. Agri. Exp. Stat.(DR)	-	-	8	9413	7	8155
ATx631 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	20	8847	66	7034
OSAGE	ASGROW SEED CO.	-	-	39	8476	25	7723
847	Cargill Hybrid Seeds	-	-	43	8368	36	7532
GSC 3150	Gro Agri Seed Co.	-	-	44	8367	28	7712
GS 712	ASGROW SEED CO.	-	-	46	8267	45	7368
GSC 3148	Gro Agri Seed Co.	-	-	48	8207	51	7321
AVar x R8504	Tx. Agri. Exp. Stat.(FM)	-	-	51	8128	76	6566
AAArg34 x R8505	Tx. Agri. Exp. Stat.(FM)	-	-	59	8033	75	6867
Towhead	Conlee Seed Co., Inc.	-	-	60	8030	29	7665
T-E Wahoo	Taylor-Evans Seed Co.	-	-	63	7978	3	8420
TOPAZ	ASGROW SEED CO.	-	-	71	7707	60	7145
Number Entries:		80		84		80	
Test Mean Yield:			9595		8401		7490

Note: Hybrids with the same yields were ranked by computer.

SUPPLEMENT

This section contains results from supplementary grain sorghum tests conducted at Runnels County, and Halfway, Texas. Although these tests are not official performance test sites evaluated under Project 1418, results may be used as necessary to determine the adaptability in these areas.

Table S1. Gary Jacob's Grain Sorghum Variety Test (Runnels County, 1992).

OBJECTIVES

Variety tests provide producers with the opportunity of comparing new varieties of grain sorghum with varieties that have been successfully grown under varying weather conditions in Runnels County. Utilization of new varieties, that are equal to or exceed currently available varieties, should increase production and income of county producers.

MATERIALS AND METHODS USED

This was a strip plot with a check variety (Warner 632W) planted between every second or third variety. Variation between checks was used to adjust the yields to reduce impact made by variety location. Plots were harvested by a combine using a weigh-wagon. Moisture was taken from each variety harvested and used to adjust the yield to a standard 14% moisture.

AGRONOMIC AND TEST INFORMATION

TEST:	1992 Dryland Grain Sorghum Performance Test
LOCATION:	3 miles west of Winters, Texas
COOPERATORS:	Gary Jacob (Producer) Mike Mauldin (County Extension Agent) Rick Minzenmayer (Extension Agent-Entomology Runnels & Tom Green Counties) Dr. Billy Warrick (Extension Agronomist:San Angelo)
SOIL TYPE:	Portales clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Cotton
DATE PLANTED:	April 24, 1992 with an 8-row John Deere 804 planter
PLANTING RATE:	Approximately 4 pounds per acre
FERTILIZER:	30-10-0
HERBICIDES:	None
MOISTURE @ PLANTING	Good underground moisture

Table S2. Results From 28 Grain Sorghum Hybrids and 1 Check Hybrid, Runnels County, 1992.

Variety	Test Weight Pounds Per Bushel	Percent Moisture	Yield Per Acre At 14% Moisture	Gross Income, Per Acre \$3.40 Per CWT
Deltapine 1482	53	14.9	4326	147.09
Warner 560	52	17.8	4013	136.43
Cargill 797 CS	57	16.5	3770	128.17
Pioneer 8452	55	15.5	3753	127.59
Northrup King KS 383Y	56	15.7	3510	119.34
DeKalb DK 40y	54	17.0	3488	118.56
Hi-Yield 6111C	54	17.2	3313	112.63
DeKalb DK 56	56	16.9	3264	110.96
Deltapine 1505Y	56	15.5	3263	107.56
Deltapine 1506	56	15.6	3154	107.24
Hi-Yield 4411C	55	18.2	3122	106.16
Northrup King KS 714Y	58	18.0	2895	98.43
Pioneer 8446	58	14.1	2775	94.33
Check (Warner 632W)	56	14.0	2749	93.47
Northrup King KS 710	56	16.8	2748	93.44
Western Heritage Rio Grande	59	14.0	2703	91.90
Pioneer 8505	54	15.7	2661	90.47
ORO 9201	54	14.0	2565	87.21
Western Heritage Rio Bravo	54	16.5	2513	85.45
Warner 528W	54	17.6	2510	85.35
ORO 9202	56	16.8	2504	85.14
Golden Acres T-E Rio	55	16.3	2504	85.13
Cargill X10216 CS	55	18.5	2214	75.28
ORO 9206	52	17.8	1946	66.16
HyPerformer Cherokee	46	19.2	1824	62.01
Golden Acres T-E Eden	54	17.2	1762	59.91
Warner 818E	51	18.6	1670	56.78
DeKalb DK 18	51	16.6	1429	48.59
Browning Challenger	45	19.8	1398	47.53

SUMMARY

Twenty-eight grain sorghum varieties were planted by Gary Jacob in northern Runnels County, three miles west of Winters, Texas on farm road 153. Normal dryland production practices were used. Yields were reduced in some varieties due to midge damage. When reviewing the test results, producers should keep in mind that this is only one years data. Year to year consistency should be a primary consideration on selecting varieties of grain sorghum to be planted.

ECONOMIC ANALYSIS

There is a 309 percent difference between the yield of the lowest and highest varieties in the test. Using a price of \$3.40 per cwt. for grain sorghum, this results in a difference of \$99.56 per acre. The higher yield and income of the best varieties in this test justifies the adoption of these into certain farm production.

ACKNOWLEDGMENTS

Sincere appreciation is expressed to Gary Jacob for establishing and managing the dryland grain sorghum variety test. Also, a word of thanks to all those that assisted with the county grain sorghum tour and to those that assisted in harvesting the plots. A special thanks to all the seed companies that donated seed for the test plot.

TABLE S3.

AGRONOMIC AND TEST INFORMATION: HALFWAY, TEXAS
Supplementary Grain Sorghum Test

TITLE:	Single row irrigated grain sorghum performance test at the Texas Agricultural Experiment Station, Halfway, Texas, 1992	
AUTHORS:	N.E. Wuthrich, C. A. Woodfin, J. W. Jones, D. T. Rosenow, G. C. Peterson, Research Associate, Senior Research Associate, Research Associate, Professor and Associate Professor	
METHODS & MATERIALS:	Experimental Design:	Triple lattice
	Plot Size:	6.66 ft(2 beds x 21 ft)
	Plot Spacing:	Single row on 40-inch spaced beds
	Soil Type:	Pullman clay loam
	Previous Crop:	Corn
	Fertilizer:	170-55-0-4.5 liquid (N-P-K-S)
	Herbicide:	1 lb ai/A Atrazine, 1.5 lbs ai/A Dual
	Insecticide:	9.5 lbs/A Counter 20CR preplant
	Irrigations:	2.85, 2.26, 2.63, 2.25, and 2.04 in/A applied on July 21, Aug 3, 17, 28 and Sep 15
	Rainfall:	Jan-Oct (27.59")
	Planting Date:	June 5
	Seeding Rate:	82,887 seeds/A
	Plant Population:	See Table S2
	Harvest Date:	October 26

RESULTS & DISCUSSION:

Table S4 contains all agronomic data recorded in 1992.

Yields were excellent in this test, with a record mean of 10,090 lb/A. Near perfect weather conditions were conducive for plant growth and grain production.

Beneficial rainfall prior to planting and during the early part of the growing season provided adequate moisture without irrigation.

The systemic insecticide, Counter 20CR, was applied preplant for greenbug control. No insecticide was needed after emergence.

No crop loss was noted.

Three replications with 2-row plots were combine harvested. Grain yields were adjusted to 13% moisture and converted to pounds per acre.

Table S4. Grain yield and other agronomic data for forty-nine hybrids evaluated under irrigation at the Texas Agricultural Experiment Station, Halfway, Texas, 1992.

Company or Brand Name	Hybrid Designation	Grain	Duncan's	Days	Plant Height (In)	Head		Height Unif. 5	Head Type 6	Mois- ture %	Matu- rity 7
		Yield lb/A 1	5% Level 2	To Flower 3		Exs. Inches 4					
DEKALB Plant Genetics	DEKALB DK-66	11409	A	69	66	6	3.0	3.0	14.0	L	
Garrison & Townsend, Inc	SG-942	11285	A-B	67	62	4	3.0	3.0	13.9	L	
Taylor-Evans Seed Co.	T-E Y-77E	11134	A-C	66	60	6	3.0	3.0	13.1	L	
DEKALB Plant Genetics	DEKALB X-292	11114	A-D	70	62	4	2.0	3.0	14.9	L	
Frontier Hybrids, Inc.	F-524	11098	A-E	67	59	7	3.0	2.7	13.7	L	
SEEDCO Corporation	SC-705	11084	A-E	66	59	8	3.0	3.0	14.0	ML	
Gro Agri Seed Co.	GSC 3150	11063	A-E	65	61	6	2.7	3.0	13.7	ML	
Triumph Seed Co., Inc.	Two 80-D	11030	A-E	66	62	6	3.0	3.0	13.4	ML	
Tx. Agri. Exp. Stat.	ATx2752 x Tx2783	10799	A-F	68	60	4	3.0	2.7	13.9	ML	
Triumph Seed Co., Inc.	TR 82G	10788	A-F	68	62	7	3.3	2.0	13.2	ML	
DEKALB Plant Genetics	DEKALB X-156	10777	A-F	67	61	7	2.0	3.3	15.1	L	
Taylor-Evans Seed Co.	T-E 9205-X	10745	A-F	67	61	5	3.0	3.0	13.2	L	
ORO Hybrids	ORO EXP. 9212	10718	A-F	66	63	6	3.0	3.0	13.4	L	
ORO Hybrids	ORO Amigo	10692	A-G	66	59	7	2.7	3.0	13.2	ML	
Tx. Agri. Exp. Stat.	ATx2752 x RTx430	10653	A-G	67	58	6	2.3	3.0	13.8	ML	
Tx. Agri. Exp. Stat.(DR)	AVar (ATx635) x R8505 (RTx436)	10619	A-G	68	72	11	3.3	2.0	13.9	ML	
Tx. Agri. Exp. Stat.(DR)	AVar (ATx635) x 86EON361	10531	A-H	64	68	10	2.7	2.0	12.9	ML	
DOUGLASS W. KING CO, INC	dk 790E	10514	A-H	64	64	7	3.3	2.0	12.6	L	
ICI Seeds Inc.	Garst 5392	10468	A-H	67	58	7	3.0	3.0	14.0	ML	
ORO Hybrids	ORO EXP. 9211	10442	A-I	67	59	6	3.0	3.0	13.0	L	
DEKALB Plant Genetics	DEKALB DK-56	10440	A-I	64	61	10	2.7	3.0	13.8	L	
AgriPro Seed Co.	AP 9850	10370	A-J	68	61	6	2.7	2.3	13.7	ML	
Garrison & Townsend, Inc.	SG-821	10631	A-J	68	62	12	4.0	2.3	13.2	ML	
GEORGE WARNER SEED CO.	W-902-W	10302	A-J	69	64	8	3.3	3.0	14.4	L	
Gro Agri Seed Co.	GSC 3605	10234	B-K	68	60	8	3.0	2.0	14.2	L	
Taylor-Evans Seed Co.	T-E Y-75	10225	B-K	64	58	7	2.7	3.0	13.0	M	
Tx. Agri. Exp. Stat.(GP)	ATx2752 x GR134A-90M50	10153	C-L	68	55	5	2.7	2.7	14.0	ML	
Triumph Seed Co., Inc.	TR 65-G	10010	D-M	64	58	7	3.0	3.0	13.2	M	
Tx. Agri. Exp. Stat.	ATx399 x RTx430	9991	E-M	65	56	8	2.7	2.7	13.1	ML	
Tx. Agri. Exp. Stat.(GP)	ATx2752 x GR107A-90M19	9920	F-M	67	57	4	3.0	2.7	13.0	ML	

Table S4. (CONTINUED)

Company or Brand Name	Hybrid Designation	Grain Yield lb/A 1	Duncan's 5% Level 2	Days To Flower 3	Plant Height (In) 4	Head Exs. Inches 5	Height Unif. 6	Head Type 7	Mois- ture % 8	Matu- rity 9
SEEDCO Corporation	SC-710	9917	F-M	65	60	7	3.0	2.7	12.8	ML
Tx. Agri. Exp. Stat.(GP)	A1 x Tx2783	9898	F-M	66	61	5	2.3	3.0	13.7	ML
Northrup King Co.	KS 936	9880	F-M	70	66	9	3.3	2.0	13.5	L
AgriPro Seed Co.	ST686	9836	F-M	65	58	7	2.3	2.3	12.6	M
Tx. Agri. Exp. Stat.(GP)	ATx2792 x Tx2783	9708	F-M	67	59	6	2.0	3.0	12.9	ML
Garrison & Townsend, Inc.	SG-822	9599	G-M	65	59	11	4.0	3.0	13.2	M
Tx. Agri. Exp. Stat.(GP)	ATx2752 x GR126-90M36	9589	G-M	69	64	7	2.7	3.0	14.3	ML
Taylor-Evans Seed Co.	T-E Sonora	9435	H-M	66	56	9	2.3	3.0	14.0	ML
Garrison & Townsend, Inc.	SG-925	9353	I-M	64	59	8	3.0	3.0	12.6	ML
Tx. Agri. Exp. Stat.(DR)	A1 x R8505 (RTx436)	9294	J-M	68	60	8	4.0	3.0	14.7	ML
Tx. Agri. Exp. Stat.(GP)	ATx2792 x Tx2868	9293	J-M	65	54	8	3.0	3.0	14.1	ML
Tx. Agri. Exp. Stat.(GP)	ATx2752 x GR134A-90M49	9176	K-M	67	55	4	3.0	2.0	13.0	ML
Tx. Agri. Exp. Stat.(DR)	ABON34 x 86EON361	9138	K-M	66	54	7	2.0	3.0	12.5	ML
AgriPro Seed Co.	AP 9670	9113	L-M	66	52	5	2.3	3.0	12.9	M
Tx. Agri. Exp. Stat.(DR)	ABON34 x R8505 (RTx436)	9100	L-M	68	59	9	2.7	3.0	14.1	ML
Tx. Agri. Exp. Stat.(GP)	ATx2752 x GR107A-90M20	8987	M	71	54	6	4.0	3.0	14.2	ML
Tx. Agri. Exp. Stat.(GP)	A1 x GR107A-90M19	8964	M	64	56	3	3.0	2.7	13.6	ML
Conlee Seed Co., Inc.	Exp 244	8949	M	62	46	7	1.7	2.3	12.5	E
Tx. Agri. Exp. Stat.	RS610	6207	N	58	58	11	3.0	2.0	12.1	ME

Test Mean = 10089 Test C. V. = 5.5 LSD .05 = 893.8

Note : The ANOVA procedure was used for statistical analysis.

1 All yields adjusted to 13% moisture.

2 Any two hybrids having a common letter are not significantly different at the 0.05 probability level.

3 Number of days from planting until date when majority of heads are in half-bloom.

Table S4. (CONTINUED)

4 Head exertion is average number of inches from flag leaf to the base of the head.

5 Height uniformity rating: 1 = uniform 5 = irregular.

6 Head type rating 1-5: 1 = tight, compact head 5 = loose, open head.

7 Seed company maturity designation: ME = medium early, M = medium, ML = medium late, L = late.

TABLE S5.

AGRONOMIC AND TEST INFORMATION: LAMESA, TEXAS
Supplementary Grain Sorghum Test

TITLE:	Dryland grain sorghum performance test at Lamesa AG-CARES, Lamesa, Texas, 1992.	
AUTHORS:	D. T. Rosenow and C. A. Woodfin, Professor and Research Associate	
METHODS & MATERIALS:	Experimental Design:	Randomized block with 3 replications
	Plot Size:	6.66 ft (2 beds x 17 ft)
	Plot Spacing:	Single row on 40-inch spaced beds
	Soil Type:	Amarillo fine sandy loam
	Previous Crop:	Dryland cotton
	Fertilizer:	42-0-0 preplant in April
	Herbicide:	1.5 lb ai/a Dual on July 24
	Insecticide:	1.25 pt/A Lannate on September 16 for midge and headworms
	Planting Date:	July 10
	Seeding Rate:	30,000 seed /A and hand thinned to uniform stand of approximately 26,000 plants per acre
	Harvest Date:	November 10

RESULTS & DISCUSSION:

Table 1 contains all data recorded in 1992. Grain yields were excellent with a top yield of 7,393 lb/A, and a test mean yield of 4,223 lb/A. The test was originally planted on June 25 in the dryland southwest corner of AG-CARES. However, very poor stands were obtained due to Treflan damage. Treflan had been applied prior to bedding in late 1991 in anticipation of planting cotton in 1992. The test was then replanted on July 10, and by planting deeper in the bed, generally adequate stands were obtained. The test plots were hand harvested (1/2000 A=6.6 ft) and threshed with a plot combine.

Above normal rainfall and cooler than normal temperatures contributed to excellent plant growth and development and high yield expression. A warm, dry fall was favorable for this late planting date. Some hybrids were not mature at the first killing freeze on November 4, and these hybrids still had somewhat higher grain moisture at harvest. Hybrids that flowered in about 70 or more days would normally be considered too late-maturing for a July 10 planting in the Lamesa area. Also, the above normal rainfall tended to be beneficial to later maturing hybrids, which would often not be the case in a more normal rainfall year. Some midge developed in the test block which warranted one spraying of an insecticide. Some control was achieved, but damage still occurred in some hybrids. Midge damage ratings were taken, and the resistance in experimental midge resistant hybrids was very evident. Grain yields were not adjusted for midge damage. Also, in some of the very late flowering hybrids, some cool temperature induced sterility was present, and was difficult to separate from midge damage. There was no bird or disease damage. Greenbugs were observed in the test block, but populations were low and controlled by parasites.

All seed company entries, except those beginning or ending with an X, are commercially available. Most TAES hybrids are experimental and not commercially available.

Table S6. Grain yield and other agronomic data for one hundred and four grain sorghum hybrids grown under dryland conditions at Lamesa AG CARES, Lamesa, Texas, 1992.

Company or Brand Name	Hybrid Designation	Grain Yield lb/A 1	Duncan's 5% Level 2	Days To Flower 3	Plant Height (In) 4	Head Exs. Inches 4	% Midge Damage (CAW) 5	% Midge Damage (GCP) 5	Percent Stand %	Mois- ture %
Tx. Agri. Exp. Stat.	ATx2801*MR102-90M2	7393	a	69	51	4	0.0	1.0	98	14.6
Tx. Agri. Exp. Stat.	ATx2755*MR102-90M2	6426	ab	64	43	3	0.0	1.0	92	11.5
Tx. Agri. Exp. Stat.	A1*P37-1	6145	abc	66	49	3	0.0	1.3	90	12.0
Tx. Agri. Exp. Stat.	A8618*RTx2783	5851	a-d	75	46	2	0.0	1.3	80	15.2
Tx. Agri. Exp. Stat.	A1*Tx430	5722	a-e	66	46	2	1.7	2.0	77	13.3
HyPerformer Seed Co.	HSC 89-3	5696	a-f	64	46	4	3.7	2.3	93	13.6
Tx. Agri. Exp. Stat.	A1*R8503	5519	b-g	63	45	2	1.0	1.7	85	13.2
Tx. Agri. Exp. Stat.	ATx2801*MR112-90M6	5466	b-h	65	52	4	0.0	1.0	95	14.0
Tx. Agri. Exp. Stat.	A35*Tx2783	5441	b-i	73	55	6	2.0	1.7	100	15.7
Tx. Agri. Exp. Stat.	A8618*91C9188	5418	b-j	73	44	3	0.0	1.7	95	14.0
Tx. Agri. Exp. Stat.	ATx2755*MR112-90M4	5368	b-k	64	44	5	0.0	1.0	92	11.1
Tx. Agri. Exp. Stat.	ATx2755*MR112-90M6	5364	b-k	64	47	5	0.0	1.0	94	12.1
Tx. Agri. Exp. Stat.	ATX2755*Tx2880	5339	b-k	61	41	4	0.0	1.0	99	10.8
Tx. Agri. Exp. Stat.	ATx2755*Tx2767	5337	b-k	63	46	4	0.0	1.0	93	10.8
Garrison & Townsend, Inc.	SG-858	5326	b-k	68	42	3	8.0	2.7	95	12.8
Tx. Agri. Exp. Stat.	A8618*RTx434	5233	b-l	63	48	4	5.0	1.7	91	13.2
Tx. Agri. Exp. Stat.	A8610*R8505	5194	b-l	69	51	4	3.7	2.3	88	14.3
Richardson Seed Co.	X55830	5177	b-l	60	51	5	0.0	2.0	93	10.6
Tx. Agri. Exp. Stat.	ATx2755*Tx2872	5155	b-l	54	49	8	0.0	1.0	100	9.5
Tx. Agri. Exp. Stat.	ATx2801*MR112-90M4	5054	b-m	66	52	7	0.0	1.0	98	12.1
Tx. Agri. Exp. Stat.	A35*GR126-90M36	5033	b-n	73	56	7	0.0	2.0	100	14.7
Tx. Agri. Exp. Stat.	A35*GR107A-90M20	5026	b-n	72	53	6	1.7	2.3	94	15.1
Tx. Agri. Exp. Stat.	ATx2752*Tx430 (Check)	4910	b-o	73	46	3	9.3	2.7	95	14.3
Garrison & Townsend, Inc.	SG-833	4885	b-o	67	41	3	1.7	3.0	95	14.6
Tx. Agri. Exp. Stat.	ATx2801*Tx2872	4884	b-o	65	49	6	0.0	1.0	92	12.8
Delta and Pine Land Co.	1506	4862	b-o	65	50	6	2.7	2.0	77	16.0
Pioneer Hi-Bred Int.	8452	4825	b-o	61	43	4	3.3	3.3	89	12.6
Tx. Agri. Exp. Stat.	ATx378*Tx430 (Check)	4783	b-p	73	51	4	9.3	2.3	90	13.7
Cargill Hybrid Seeds	797	4754	b-p	64	41	3	2.7	3.0	100	12.2
Tx. Agri. Exp. Stat.	A.BON44 *R8505	4707	b-p	67	47	5	2.7	2.0	95	14.5

Table S6. (CONTINUED)

Company or Brand Name	Hybrid Designation	Grain Yield lb/A 1	Duncan's 5% Level 2	Days To Flower 3	Plant Height (In) 4	Head Exs. Inches 5	% Midge Damage (CAW) 5	% Midge Damage (GCP) 5	Percent Stand %	Mois- ture %
Triumph Seed Co.	TR56yG	4691	b-p	64	42	3	0.0	2.3	95	12.6
Richardson Seed Co.	Sprint	4657	b-p	59	42	3	0.0	1.7	93	10.5
Frontier Hybrids, Inc.	F-280G	4644	b-p	67	45	5	2.0	2.3	96	12.5
Tx. Agri. Exp. Stat.	A807*R3224(t)	4490	c-p	68	51	2	1.0	2.5	100	12.2
Tx. Agri. Exp. Stat.	A35*GR107A-90M19	4462	c-p	72	47	6	2.7	2.0	98	16.3
Tx. Agri. Exp. Stat.	A35*G107A90M18	4409	c-p	72	49	3	7.7	3.3	97	13.6
George Warner Seed Co.	W-528-W	4383	c-p	66	59	4	8.3	3.0	92	14.7
Tx. Agri. Exp. Stat.	ATx399*Tx2536 (Check)	4338	c-q	66	40	3	8.3	3.7	100	11.3
HyPerformer Seed Co.	HSC Cherokee	4335	c-q	69	46	3	13.3	3.0	92	13.9
Cargill Hybrid Seeds	857	4328	c-q	67	43	6	4.7	2.3	95	14.2
DeKalb Plant Genetics	DK-46	4305	c-q	62	45	5	1.0	1.7	93	12.7
Tx. Agri. Exp. Stat.	A1*Tx2737	4290	c-q	67	46	4	1.0	2.3	88	13.2
DeKalb Plant Genetics	DK-40y	4288	c-q	63	44	4	3.7	2.0	97	12.1
Tx. Agri. Exp. Stat.	ATx3042*Tx2737 (Check)	4281	c-q	62	45	5	6.7	4.3	92	11.7
Tx. Agri. Exp. Stat.	A1*89CC443	4222	dq	72	48	2	1.7	1.7	97	16.4
DeKalb Plant Genetics	DK-38y	4211	dq	60	38	5	1.5	2.5	92	12.4
Tx. Agri. Exp. Stat.	ATx631*R8511	4197	dq	70	49	6	7.7	1.7	57	15.7
Tx. Agri. Exp. Stat.	A35*Tx2868	4163	d-r	72	51	8	5.0	2.0	100	11.8
Northrup King Co.	KS 710	4150	d-r	65	41	3	9.0	3.3	95	12.1
Cargill Hybrid Seeds	X10216	4143	d-r	66	42	4	7.7	2.3	93	11.6
ORO Hybrids	ORO Ivory	4101	d-r	64	43	4	1.3	2.0	82	14.0
Tx. Agri. Exp. Stat.	A35*(Tx430*R9188)	4092	e-r	69	44	5	5.0	2.7	89	16.3
Tx. Agri. Exp. Stat.	A35*GR134A-90M50	4077	e-r	77	50	5	6.3	2.3	100	17.0
Tx. Agri. Exp. Stat.	ATx2755*MR120-90M8	4048	e-r	67	48	5	9.0	2.0	95	12.5
Tx. Agri. Exp. Stat.	A35*Tx430	4048	e-r	67	46	5	11.0	3.0	97	14.4
Tx. Agri. Exp. Stat.	A35*GR134A-90M49	4001	e-r	72	49	6	3.8	2.0	99	12.1
Asgrow Seed Co.	X4251	3891	e-s	65	42	4	6.0	3.0	92	13.3
Tx. Agri. Exp. Stat.	A35*Tx2864	3899	e-s	73	45	7	5.0	2.3	97	12.7
AgriPro Seed Co.	AP 9830	3886	e-s	67	47	3	9.3	3.7	80	13.4
Garrison & Townsend, Inc.	SG-822	3879	e-s	66	44	3	10.0	2.7	78	13.9

Table S6. (CONTINUED)

Company or Brand Name	Hybrid Designation	Grain Yield lb/A 1	Duncan's 5% Level 2	Days To Flower 3	Plant Height (In) 4	Head Exs. Inches 4	% Midge Damage (CAW) 5	% Midge Damage (GCP) 5	Percent Stand %	Mois- ture %
Douglass King Co.	dk-750y	3837	e-s	68	46	5	9.3	3.3	98	15.0
ORO Hybrids	ORO Exp. 9201	3816	e-s	64	33	3	3.3	2.7	77	11.8
Tx. Agri. Exp. Stat.	A35*GR116-90M34	3780	f-s	76	51	5	4.0	2.3	98	14.7
George Warner Seed Co.	W-624y	3762	g-s	69	45	5	15.0	3.7	96	13.8
Tx. Agri. Exp. Stat.	A1*Tx2794	3736	g-s	74	46	2	3.4	2.0	93	12.1
Tx. Agri. Exp. Stat.	A8618*R6956	3719	g-s	76	50	5	1.0	2.0	95	16.5
Garrison & Townsend, Inc.	SG-651	3713	g-s	69	45	5	10.7	2.3	95	10.7
Tx. Agri. Exp. Stat.	ATx399*Tx430 (Check)	3707	g-s	67	46	3	9.0	3.0	100	11.4
GroAgri Seed Co.	GSC 3159	3690	g-s	61	36	2	5.0	2.0	93	11.1
Taylor Evans Seed Co.	T-E 9202X	3661	g-s	70	42	3	25.0	4.0	93	12.9
DeKalb Plant Genetics	DK-41y	3657	g-s	73	43	4	13.3	2.3	77	12.4
Tx. Agri. Exp. Stat.	A1*P46-1	3649	g-s	67	47	3	3.3	2.3	88	13.5
Cargill Hybrid Seeds	607E	3619	g-s	60	40	3	6.0	4.0	92	11.2
Taylor Evans Seed Co.	T-E Gage	3617	g-s	71	42	3	4.3	2.7	95	13.9
Jacques Seed Co.	Jacques 375-W	3602	g-s	70	42	4	8.3	2.0	72	14.1
Jacques Seed Co.	Jacques 444-E	3585	h-s	67	41	2	16.7	5.3	87	13.0
ORO Hybrids	ORO Edge	3583	h-s	62	37	3	2.7	2.3	83	9.3
Northrup King Co.	X8930	3577	h-s	63	37	2	11.7	3.3	80	13.9
Taylor Evans Seed Co.	T-E Eden	3568	h-s	62	40	3	8.3	2.7	90	11.0
AgriPro Seed Co.	AP 9690	3567	h-s	73	45	3	11.3	3.3	79	12.7
Tx. Agri. Exp. Stat.	A35*GR107-90M16	3545	h-s	76	47	6	6.0	2.7	100	15.2
DeKalb Plant Genetics	DK-39y	3512	i-s	63	36	3	5.0	2.7	90	12.2
ICI Seeds, Inc.	Garst 5522y	3488	j-s	67	45	4	8.3	2.0	85	13.7
Tx. Agri. Exp. Stat.	ATx631*R9021	3482	k-s	73	52	5	11.7	3.7	84	11.8
Taylor Evans Seed Co.	T-E 9188-X	3464	k-s	66	37	3	4.7	2.7	97	13.6
Tx. Agri. Exp. Stat.	RS610	3455	k-s	63	41	4	5.0	3.7	63	10.6
Tx. Agri. Exp. Stat.	A35*89CC443	3452	k-s	72	46	5	7.0	2.3	95	17.0
ORO Hybrids	ORO Exp. 9210	3450	k-s	72	43	3	25.0	4.5	93	15.2
GroAgri Seed Co.	GSC 1214E	3449	k-s	66	42	3	7.3	3.0	97	13.0
GroAgri Seed Co.	GSC 3622X	3396	l-s	66	39	2	4.3	1.7	95	14.9

Table S6. (CONTINUED)

Company or Brand Name	Hybrid Designation	Grain Yield lb/A 1	Duncan's 5% Level 2	Days To Flower 3	Plant Height (In) 4	Head Exs. Inches 4	% Midge Damage (CAW) 5	% Midge Damage (GCP) 5	Percent Stand %	Mois- ture %
Tx. Agri. Exp. Stat.	ATxARG-1*90T308	3395	l-s	76	45	4	4.3	2.3	96	15.6
Tx. Agri. Exp. Stat.	AOK11*Tx2737 (Check)	3346	l-s	68	43	3	12.3	2.7	93	13.0
Northrup King Co.	KS 383y	3327	l-s	69	35	2	9.0	3.3	88	14.2
Northrup King Co.	KS 524	3308	l-s	62	40	3	11.0	3.0	85	12.5
Pioneer Hi-Bred Int.	8446	3172	m-s	65	41	3	6.5	3.5	95	13.4
HyPerformer Seed Co.	Honcho	3146	m-s	66	41	4	15.0	4.0	95	12.5
Triumph Seed Co.	TR 58Y	3129	n-s	70	46	3	13.3	5.0	93	12.5
Tx. Agri. Exp. Stat.	A35*GR107-90M15	3084	o-s	70	44	6	20.0	4.0	90	15.3
Tx. Agri. Exp. Stat.	A35*P37-1	3088	o-s	70	47	5	12.7	2.7	83	13.2
Delta and Pineland Co.	1482	3033	o-s	62	41	3	6.7	2.7	96	9.7
Hi Yield	Hi Yield II	2890	p-s	65	41	3	20.0	4.0	95	11.8
Tx. Agri. Exp. Stat.	ATx399*Tx2737 (Check)	2429	qrs	68	38	3	25.0	5.0	93	12.9
Asgrow Seed Co.	XP4060	2257	rs	67	41	4	13.0	4.3	88	11.5
Tx. Agri. Exp. Stat.	ABON34*R8505	2005	s	75	48	3	25.0	4.0	95	14.5

Mean Yield=4,223 lb/A

CV=21.2%

LSD=1,500lb/A

- 1 All yields adjusted to 13% moisture.
- 2 Any two hybrids having a common letter are not significantly different at the 0.05 probability level.
- 3 Number of days from planting until date when one-half of the heads have started to flower.
- 4 Head exertion is the average number of inches from the flag leaf to the base of the head.
- 5 Average percent of midge damage estimated by C. A. Woodfin on November 2.
- 6 Average midge damage rating by G. C. Peterson on November 10, where 1=0-10%, 2=10-20%, 3=21-30%, 4=31-40%, 5=41-50%, to 9=81-100%.
- 7 Average estimated percent stand in the harvested area.

LITERATURE CITED

1. Texas Agricultural Facts. November 23, 1992

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