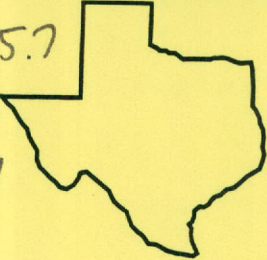


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1993 Corn Performance Tests in Texas



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**Departmental
Technical
Report No. 94-1**

1993 CORN PERFORMANCE TESTS IN TEXAS

by

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THE TEXAS AGRICULTURAL EXPERIMENT STATION
The Texas A&M University System/College Station, Texas

1993 CORN PERFORMANCE TESTS IN TEXAS

Dennis Pietsch, A.J. Bockholt, Leon Synatschk, and Frank Fojt III

INTRODUCTION

Corn continues to be a major commodity in Texas. This year, Texas farmers harvested 1.9 million acres of corn compared to 1.62 million acres in 1992, or a 17.2% increase. Since Texas is climatically diversified, factors such as price, precipitation patterns, and participation in government supported programs have contributed to fluctuation of acreage over years.

Although corn has been traditionally produced for feed purposes, recent emphasis has been placed on using corn for human consumption. Hybrids are now being produced that are nutritionally balanced which could expand market opportunities; therefore, it is imperative to evaluate hybrids for food quality and agronomic characteristics for both food and feed corn. This year, four irrigated and five non-irrigated test sites were evaluated in the major production areas of Texas. These performance tests give farmers the opportunity to assess hybrids and assist them in determining which hybrids are adapted in their area. Most of the corn production in Texas is located on the High Plains as represented in Figure 1 as Texas Crop Reporting Districts 1N & 1S. This year approximately 875,000 acres were harvested in these Districts which accounted for 46.1 percent of corn harvested in Texas. Approximate locations of the 1993 test sites are shown in Figure 2. Irrigated tests are designated with an (I) and non-irrigated sites with a (NI).

In addition, results of a supplementary corn hybrid test conducted at Halfway, Texas is included. This test was conducted at the Texas A&M University Research Center at Halfway in cooperation with the High Plains Research Foundation. Results from this test will be useful in determining the adaptability of corn in this area.

CORN PERFORMANCE TESTING IN TEXAS

Corn hybrids are evaluated annually for field performance at several locations that are representative of Texas corn production areas (Figure 1). This program is conducted by personnel from the Crop Testing Program, TAMU, College Station, Texas under Project 1418; and is financed by fees from participating commercial seed companies (Table 1). All locations are designated annually by a committee of representatives from the seed industry and the Texas Agricultural Experiment Station (TAES). Test sites are on privately owned farms or at Texas A&M University Research and Extension Centers. Corn seed producers use the State Testing Program to determine the performance of their material at several locations 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 in this publication are a measure of performance of corn hybrids planted during a particular season at the locations shown.

ENTRIES AND REPORTS

Official entry forms are mailed in December to everyone who has expressed an interest in the Texas corn performance testing program. The forms include the necessary information to make entries in any or all of the locations to be planted. There are no restrictions on the number of hybrids a company may enter, and experimental materials are accepted. All hybrids are entered on a fee basis under their brand name or number designation (Table 1). In addition, commercial and standard check hybrids were entered by TAES at selected locations. The commercial checks are hybrids commonly grown in a respective area that were not already entered in the test. These were derived from a survey conducted by area county agents, farmers, and seed dealers near the respective test sites and designated as "CHECK". After the test plantings are established, each participant receives a location sketch and planting plan for observation of the test 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 TECHNIQUES

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

1. Hand-dropped through planter at Wharton, Castroville, Bardwell, Thrall, McKinney and Dumas
2. Cone planter at Weslaco, Corpus Christi, and College Station.

After emergence, seedlings in each plot were hand-thinned to stands recommended by the company entering the hybrid.

Cultural and agronomic practices adapted for general use in the area were used as determined by the cooperator. Field data were recorded at the appropriate time and other data collected at harvest. All locations were harvested with a MF 8 plot combine that was equipped with electronic equipment mounted on the combine that measured plot weight, test weight, and moisture.

DATA

The following agronomic data are reported. Each item listed may or may not be quoted in this report for each of the respective locations.

Cob color--designated by companies when hybrids are entered: R = red, W = white, P = pink.

Grain color--designated by companies when hybrids are entered: Y = yellow, W = white.

Days to silk--number of days from planting to the time that 50 percent of the plants are showing silk.

Plant height--number of inches from ground to top of tassel.

Ear height--number of inches from ground to base of ear.

Moisture--determined at harvest with electronic equipment mounted on plot combine.

Plant population--calculated from number of plants in harvested plots x acre conversion factor.

Percent Erect plants--percentage of plants in the harvest area from all replications that are not lodged or broken below the ear. These counts were made at time of harvest.

Test weight--determined at harvest with electronic equipment mounted on plot combine.

Yield--determined by the following method: mean plot weight x acre conversion factor x $(100 - \text{mean moisture}/100 - 15.5)/56$. Yield is expressed in bushels per acre (bu/A).

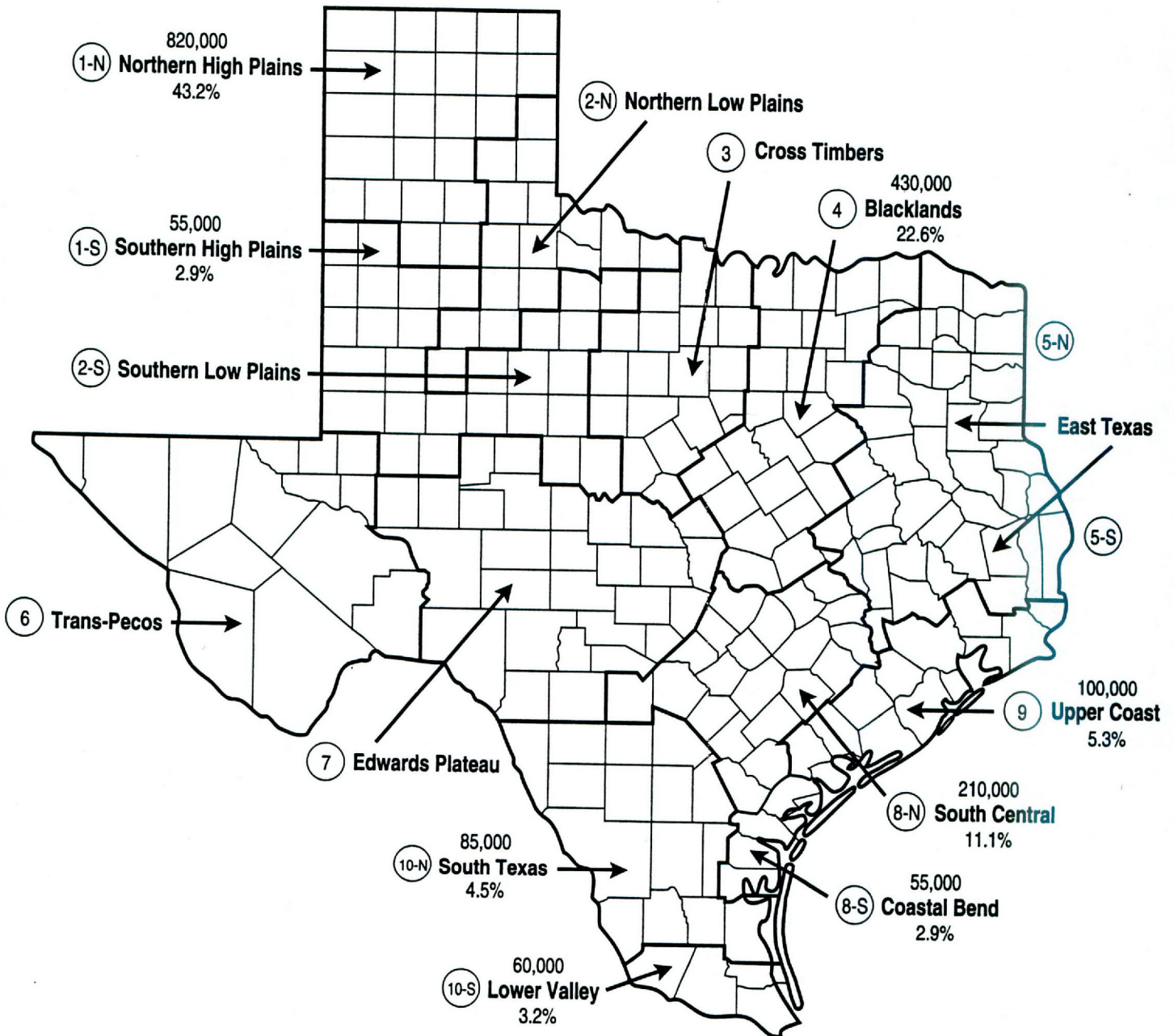
Statistical significance--indicated according to Duncan's Multiple Range Test method at the 0.05 alpha level.

RESULTS

Results of the performance test locations are presented as follows:

1. Tables 2-10 summarize agronomic and test data information.
2. Tables 2A-10A show performance test information from the respective locations. Some hybrids are in the experimental stage and seed are not available in quantities for farm planting. These hybrids are designated by an experimental number. Individuals may contact seed companies in Table 1 for the availability of planting seed for a particular hybrid.
3. Tables 2B-10B are summaries of hybrids showing test yields and test ranks at respective locations for the past 3 year period. These are helpful in the selection of hybrids for a particular area. Hybrids not entered for a respective year are designated (--). Hybrids with the same yields were ranked by computer.
4. Tables S1-S2 give results of a supplementary corn variety test conducted at Halfway, Texas. This test was conducted separately from the State corn performance tests. It was conducted as part of the sorghum and corn hybrid testing program at the Texas Agricultural Experiment Station at Halfway in cooperation with the High Plains Research Foundation.

Figure 1. Acres and Percentage of Corn Acreage Harvested by Texas Crop Reporting Districts, 1993 (1).



- NOTES:
- A. The figure below each crop reporting district is that district's percentage of the total harvested corn 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 corn production areas. Grouped together, these districts account for 85,000 acres, or 4.5 percent of state acreage (1).

FIGURE 2. 1993 CORN TEST LOCATIONS IN TEXAS

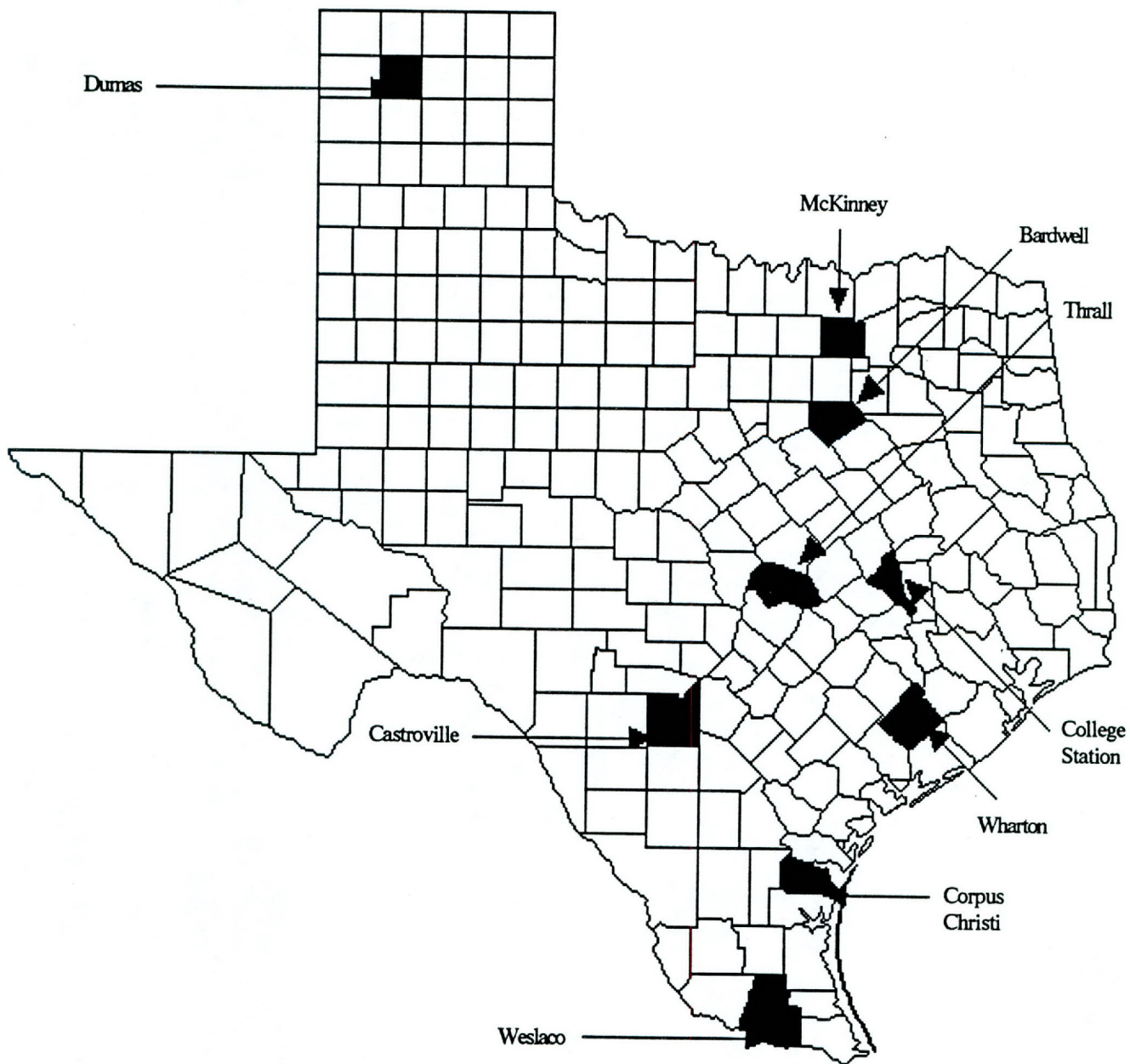


Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- Weslaco Christi ville Wharton College Station Thrall Bardwell McKinney Dumas									
		Weslaco	Christi	ville	Wharton	College Station	Thrall	Bardwell	McKinney	Dumas	
DEKALB Plant Genetics 3100 Sycamore Road DeKalb, IL 60115	D799 (EXP9137)	X	-	-	-	-	-	-	-	-	
	EXP9138 (X)	X	-	-	-	-	-	-	-	-	
	EXP2700 (X)	X	-	-	-	-	-	-	-	-	
	DK743	-	X	X	X	X	X	X	X	-	
	DK715	-	X	-	X	X	-	-	-	X	
	DK689	-	-	X	-	-	-	-	-	-	
	DK683	-	-	-	-	-	X	X	X	-	
	DK657 (EXP165)	-	-	-	-	-	-	-	-	X	
	DK652	-	-	-	-	-	-	-	-	X	
	DK656	-	-	-	-	-	-	-	-	X	
	DELTA AND PINE LAND CO. 1301 E. 50th St. Lubbock, TX 79404	4682	X	X	X	X	X	X	X	-	-
		G-4673B	-	X	X	-	X	X	X	X	X
		4581	-	X	-	-	-	-	-	X	X
8695		-	X	X	X	X	X	X	X	-	
6157X		-	-	-	X	-	-	-	-	-	
4662		-	-	-	-	-	-	-	-	X	
DOUGLASS W. KING CO. P.O. Box 200320 San Antonio, TX 78220	5114	-	X	X	-	-	X	X	-	-	
	9239x	-	X	X	-	-	-	X	-	-	
	9106x	-	X	-	-	-	-	-	-	-	
	9265x	-	X	X	-	-	-	-	-	-	
	9240x	-	X	-	-	-	-	-	-	-	
	9292x	-	-	X	-	-	-	-	-	X	

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- Weslaco Christi ville Wharton College Station Thrall Bardwell McKinney Dumas									
		Weslaco	Christi	ville	Wharton	College Station	Thrall	Bardwell	McKinney	Dumas	
DOUGLASS KING (Continued)	9297x	-	-	X	-	-	-	-	-	-	
	5154	-	-	-	X	X	-	-	-	-	
	6154	-	-	-	X	X	-	-	-	-	
	9206	-	-	-	X	-	-	-	-	-	
	5201	-	-	-	-	-	-	-	-	-	
	9223x	-	-	-	-	-	-	X	-	X	
	9224x	-	-	-	-	-	-	X	-	X	
	92119x	-	-	-	-	-	-	-	-	X	
	9111x	-	-	-	-	-	-	-	-	X	
	9254x	-	-	-	-	-	-	-	-	X	
	9661x	-	-	-	-	-	-	-	-	X	
	Frontier Hybrids, Inc. P.O. Box 177 Abernathy, TX 79311	F-3200	X	X	X	X	-	X	X	-	X
		F-3040	X	X	X	X	-	-	-	-	X
F-3038		-	-	-	-	X	-	-	-	X	
F-3100		-	-	-	-	-	X	-	-	-	
George Warner Seed Co., Inc. P.O. 1448 Hereford, TX 79045	W-2170	-	X	-	X	-	X	X	X	X	
	WxC-171	-	-	-	-	-	-	-	-	X	
Germain's Inc. P.O. Box 12447 Fresno, CA 93777	GC 16703	-	-	-	-	-	-	-	-	X	

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- College									
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas	
GLOBAL TECH. INC. 7200 Hickman Road Des Moines, Iowa 50322	GT-01	X	-	-	-	-	-	-	-	-	
	GT-02	X	-	-	-	-	-	-	-	-	
	GT-03	X	-	-	-	-	-	-	-	-	
	GT-04	X	-	-	-	-	-	-	-	-	
	GT-05	X	-	-	-	-	-	-	-	-	
	GT-06	X	-	-	-	-	-	-	-	-	
	GT-07	X	-	-	-	-	-	-	-	-	
	GT-08	X	-	-	-	-	-	-	-	-	
	GT-09	X	-	-	-	-	-	-	-	-	
	GT-10	X	-	-	-	-	-	-	-	-	
	GT-11	X	-	-	-	-	-	-	-	-	
HyPerformer Seed Co. 6075 Poplar, Suite 500 Memphis, TN 38137	HS 9843	X	X	X	X	X	X	X	X	X	
	HS 9905	X	X	X	X	X	-	-	X	X	
	HS 9822	X	-	-	X	-	-	-	X	X	
	HS 9848	X	X	X	X	X	X	X	X	X	
	HS 9944	X	X	X	X	X	X	X	X	X	
	HS 9977	X	X	X	X	X	-	-	X	X	
	HS 9502	X	-	-	X	-	-	-	X	X	
	HS 9911	-	-	-	X	-	-	-	X	-	
	HB 127002 (x)	-	-	-	X	-	-	-	X	X	
	HS 9610	-	-	-	-	-	-	-	-	X	
	ICI Seeds (Garst Seed Co.) 2505 Candlewood Dr. Manhattan, KS 66502	8315	-	X	X	X	-	X	-	-	-
		8281x	-	X	X	X	-	X	-	-	-
		8260	-	-	-	X	-	-	-	X	-

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- College								
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas
NC+ Hybrids Box 4408 Lincoln, NE 68500	NC+ 5037	X	X	-	X	-	-	-	-	-
	NC+ 6959	X	X	-	X	-	X	X	X	-
	NC+ 7117	X	X	-	X	-	X	X	X	-
	NC+ 7507	X	X	-	X	-	X	X	X	-
	NC+ 7665	X	X	-	X	-	X	X	X	-
Northrup King Company 6139 37th Lubbock, TX 79407	N 8811	-	X	X	X	X	X	X	X	X
	N 748	-	X	X	X	-	-	-	-	-
	N 6330	-	-	-	-	-	-	X	X	-
	N 7816	-	-	-	-	-	-	-	-	X
Mycogen Plant Sciences 505 South 87th P.O. Box 68 Tulia, Texas 79088	Myc GSC-4202	X	X	X	X	X	X	-	X	X
	Myc GSC-4172	-	X	X	X	X	X	-	X	-
	Myc GSC-4175	-	X	-	X	-	-	-	-	X
	Myc GSC-4626	-	X	-	-	-	-	-	-	-
	Myc GSC-4214	-	-	X	X	X	X	-	X	X
	Myc GSC Exp. 7388x	-	-	X	-	-	-	-	-	-
	Myc GSC-4192	-	-	-	X	-	-	-	-	X
	Myc GSC-4161	-	-	-	-	-	-	-	-	X
	Myc ORO 188	X	X	X	X	X	X	X	X	X
	Myc ORO 166 (x211)	X	X	X	X	X	X	-	X	X
	Myc ORO Exp. 5309x	-	-	X	X	-	-	-	-	-
	Myc ORO 142	-	-	-	-	-	X	X	-	X
	Myc ORO Exp. 5351x	-	-	-	-	-	X	-	-	-
	Myc ORO 190	-	-	-	-	-	-	-	-	X
	Myc ORO Exp. 5360	-	-	-	-	-	-	-	-	X

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- College									
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas	
Mycogen (Continued)	Myc T-E 9586	X	X	X	X	X	X	X	X	-	
	Myc T-E 7070	X	-	X	X	-	X	X	X	X	
	Myc T-E X-9332	X	-	-	-	-	-	-	-	-	
	Myc T-E X-9319	-	X	-	-	-	-	-	-	-	
	Myc T-E X-9348	-	X	-	X	-	X	-	-	-	
	Myc T-E X-9341	-	-	X	-	X	-	-	-	-	
	Myc T-E X-9320	-	-	X	-	-	-	-	-	X	
	Myc T-E 7065	-	-	-	X	-	X	X	-	X	
	Myc T-E 6951	-	-	-	-	-	-	-	-	X	
	Pioneer Hi-Bred Int., Inc. P.O. Box 788 Plainview, TX 79072	3163 (X1812)	-	X	X	X	X	X	X	X	X
		3156 (X1813)	-	X	X	X	X	X	X	X	-
		3167	-	X	X	X	X	-	-	-	-
		3245	-	X	X	X	X	X	X	X	X
3085		-	X	-	X	X	-	-	-	-	
3394		-	X	X	X	X	X	X	X	X	
3346 (X1616)		-	-	-	-	-	X	X	X	X	
3317		-	-	-	-	-	X	X	X	-	
X1132N		-	-	-	-	-	X	X	X	-	
X1132R		-	-	-	-	-	X	X	X	-	
3162		-	-	-	-	-	-	-	-	X	
X1182M		-	-	-	-	-	-	-	-	X	
X1182T		-	-	-	-	-	-	-	-	X	

Table 1. (Continued)

Company & Address	Hybrid	Weslaco	Corpus Christi	Castro-ville	Wharton	College Station	Thrall	Bardwell	McKinney	Dumas
Pioneer Overseas Corporation 1702 S Int. Blvd. Weslaco, TX 78596	3050W	X	-	-	-	-	-	-	-	-
Pogue Seed Company P.O. Drawer 389 Kenedy, TX 78119	AG 4555	X	-	-	-	-	-	-	-	-
SEEDCO Corporation 103 Erskine Lubbock, TX 79403	SC-119	-	X	-	-	-	-	-	-	-
TERRA INTERNATIONAL, INC. Terra Centre, 600 4th St. Sioux City, IA 51101	TERRA - TR700E TERRA - TR1167 TERRA - E1168	X X X	- - -	X X X	X X X	X X X	- - -	- - -	X X X	X X X
	TERRA - TR702E TERRA - 641E	X -	- -	X -	X -	X -	- -	- -	X X	X X
Triumph Seed Co., Inc. P.O. Box 1050 Ralls, Tx 79357	2010	X	-	-	-	-	-	-	-	X
TEXAS SEED CO., INC. 221 Airport Boulevard Kenedy, TX 78119-0599	TS-777	-	X	X	X	-	-	-	-	-

Table 1. (Continued)

Company & Address	Hybrid	Corpus		Castro- ville	College					
		Weslaco	Christi		Wharton	Station	Thrall	Bardwell	McKinney	Dumas
Texas Agricultural Experiment Station	Tx Exp 91208	X	X	X	X	X	X	X	X	X
	Tx Exp 93202	X	-	-	-	-	X	-	-	-
	Tx Exp 92218	-	X	-	-	-	X	X	-	-
	Tx Exp 93204	-	-	X	X	X	X	-	-	-
	Tx Exp 93206	-	-	X	X	X	-	-	-	-
	Tx Exp 92202	-	-	-	-	-	-	-	X	-
	Tx Exp 93212	-	-	-	-	-	-	-	-	X
	Tx Exp 93214	-	-	-	-	-	-	-	-	X

TABLE 2.

AGRONOMIC AND TEST INFORMATION: WESLACO

TEST:	1993 Irrigated Corn Performance Test
LOCATION:	Texas A&M University Research and Extension Center, Weslaco, Texas
COOPERATORS:	Jesus Ayala, John Drawe, & Dennis Pietsch
SOIL TYPE:	Hidalgo clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Grain Sorghum
LAND PREPARATION:	Disked, chiseled, disked, bedded
DATE PLANTED:	2-16-93
DATE THINNED:	3-9&10-93, thinned to seed company recommendations
PLOT LENGTH:	22'
FERTILIZER:	200+0+0; 80 lb/A as N-32 1/7/93, 120 lbs N/ac as N-32 applied 3/31/93.
HERBICIDE:	1.5 pt/A Atrazine on 2/18/93, post plant
INSECTICIDE:	8.7 lb/ac Lorsban 15G at plant
RAINFALL:	January = 0.44"; February = 1.33"; March = 1.57"; April = 0.08"; May = 3.3"; June = 6.70"; Total = 13.42"
IRRIGATIONS:	1-19 (preplant); and 4-5; 4-21; 5-7; approx. 4"/application
DATE HARVESTED:	7-14&15-93, with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows, 22' each or 1/396 ACF
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	60
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP:	21,552 plants/A
TEST MEAN:	111.5 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	9.9 percent

Yields at this test site do not reflect the potential of corn production in this area; therefore, caution should be used in interpreting these results. An optimum planting date was achieved at this test site and rapid seedling emergence resulted from an excellent seedbed. Excellent plant growth and development resulted from rainfall in March and a timely irrigation schedule in April. The test block was irrigated on May 7, but a thunderstorm accompanied by very high winds and rainfall (2.42") occurred on May 9 resulting in severe root lodging from the wet soil conditions. This may have been a contributing factor resulting in reduced yields. Due to the severe lodging, plant and ear height readings were taken from only two replications at harvest. Also at harvest, plant counts and number of lodged plants were recorded from all four replications and a percent calculated. This is reflected in the following Table under the heading "PERCENT ERECT PLANTS."

The test mean yield was 111.5 bu/A compared to 164.6 bu/A in 1992. The past three year average was 133.2 bu/A. Although yields were low, bushel weights were very good with the range being from 54.3 lb/bu to 61.0 lb/bu.

Table 2A. CORN PERFORMANCE TEST; WESLACO, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
HS 9843	HyPerformer Seed Company	Y	R	77	81	30	13.6	21384	23.0	57.7	148.5	A
TERRA - TR702E	Terra International, Inc	Y	R	77	82	32	15.0	24057	16.0	57.6	147.1	A-B
TERRA - TR1167	Terra International, Inc	Y	R	76	80	28	13.3	23661	10.5	57.6	139.0	A-C
HS 9502	HyPerformer Seed Company	Y	R	76	84	31	13.6	24057	21.4	58.2	138.1	A-C
HS 9944	HyPerformer Seed Company	Y	R	78	85	33	15.3	26730	27.0	59.2	136.7	A-D
8327	Cargill Hybrid Seeds	Y	R	75	80	32	13.6	23067	13.3	58.1	136.2	A-E
F-3200	Frontier Hybrids, Inc.	Y	R	76	81	30	13.6	22671	16.6	58.1	134.1	A-F
NC+ 6959	NC+ Hybrids	Y	R	76	84	30	13.6	21681	16.9	58.3	132.5	A-G
3050W	PIONEER OVERSEAS CORP.	W	W	78	84	29	15.4	20196	32.8	58.9	130.7	A-H
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	77	85	29	13.5	23265	37.0	58.1	130.5	A-I
2010	TRIUMPH SEED CO., INC.	Y	R	76	85	30	13.6	20097	9.9	57.7	130.1	A-J
Myc T-E 7070	Mycogen Plant Sciences	Y	R	76	81	28	13.5	20394	18.4	58.5	130.0	A-J
EXP. 9138(x)	DEKALB Plant Genetics	W	P	76	83	27	14.9	18909	7.9	60.0	129.7	B-J
HS 9905	HyPerformer Seed Company	Y	R	76	80	30	14.9	23463	8.9	59.9	129.4	B-J
A9751	Asgrow Mexicana, SA de CV	W	W	82	91	34	13.1	22473	54.6	50.4	127.6	C-K
7997	Cargill Hybrid Seeds	Y	R	74	84	30	13.5	19701	22.6	58.7	127.4	C-K
CM-CENTELLA	CERES INT., de Semillas	W	W	76	82	26	12.2	21780	17.7	57.3	126.1	C-L
NC+ 5037	NC+ Hybrids	Y	R	76	84	32	13.5	22176	27.2	57.1	125.2	C-M
TERRA - E1168	Terra International, Inc.	Y	R	77	82	31	13.7	23463	15.6	58.9	123.7	C-N
NC+ 7507	NC+ Hybrids	Y	R	79	82	37	13.6	22077	35.0	58.0	123.1	C-N
CHECK	Tx. Agri. Exp. Stat.	*	*	80	82	34	13.3	22869	8.7	58.3	122.6	C-N
CM-82	CERES INT., de Semillas	W	W	82	82	30	25.0	22869	33.3	55.9	122.5	C-N
AG 4555	Pogue Seed Company	Y	R	75	85	32	14.8	23958	60.3	60.2	122.0	C-N
D799	DEKALB Plant Genetics	W	R	82	91	38	15.5	20790	11.9	60.4	121.6	C-N
Myc ORO 166	Mycogen Plant Sciences	Y	R	77	88	31	13.6	22176	25.4	57.9	120.4	C-O
HS 9848	HyPerformer Seed Company	Y	R	77	81	31	13.6	22374	10.6	59.0	120.1	C-O
HS 9822	HyPerformer Seed Company	Y	R	77	84	32	13.5	20295	37.6	57.8	118.7	D-P
Rx945	Asgrow Seed Company	Y	R	76	86	34	13.8	25047	12.3	58.9	118.3	D-P
CHECK	Tx. Agri. Exp. Stat.	*	*	78	80	27	13.5	22176	67.9	56.6	117.1	E-P
NC+ 7117	NC+ Hybrids	Y	R	77	83	31	13.6	23463	12.7	58.5	116.6	F-P

Table 2A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days			Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches	Ear Height Inches						
HS 9977	HyPerformer Seed Co.	Y	R	80	80	28	14.7	22374	12.4	59.7	114.0	G-Q
A9620	Asgrow Mexicana, SA de CV	W	W	86	86	34	14.9	25047	14.6	58.4	113.1	H-R
A9622	Asgrow Mexicana, SA de CV	W	W	92	92	33	15.2	24255	19.6	61.0	112.8	H-R
F-3040	Frontier Hybrids, Inc.	Y	R	82	82	34	13.5	22275	39.1	57.5	111.7	H-R
Myc T-E X-9332	Mycogen Plant Sciences	Y	R	86	86	34	13.8	21285	27.0	57.0	111.6	H-R
Myc ORO 188	Mycogen Plant Sciences	Y	R	84	84	32	14.4	24156	4.9	57.5	111.4	H-R
7897	Cargill Hybrid Seeds	Y	R	87	87	30	13.6	22869	51.1	57.0	111.2	I-R
4682	Delta and Pine Land Company	Y	R	78	78	28	13.9	22473	50.2	57.7	111.1	J-S
NC+ 7665	NC+ Hybrids	Y	R	83	83	31	13.7	19602	3.5	57.0	108.7	K-S
8427	Cargill Hybrid Seeds	Y	R	72	72	29	13.6	21681	12.8	57.7	107.6	L-S
Rx919	Asgrow Seed Company	Y	R	77	85	32	13.8	19602	82.3	57.9	107.2	L-S
EXP. 2700(x)	DEKALB Plant Genetics	W	W	76	85	32	13.5	22077	6.3	56.5	106.8	M-S
TERRA - TR700E	Terra International, Inc.	Y	R	78	75	33	15.5	22374	6.2	58.7	106.1	M-S
Myc T-E 9586	Mycogen Plant Sciences	Y	R	77	84	34	15.5	18018	3.3	58.7	104.7	N-S
93202Y	Tx. Agri. Exp. Stat.	Y	P	77	90	35	13.6	20097	20.2	57.2	102.2	O-T
Rx959W	Asgrow Mexicana, SA de CV	W	W	80	88	32	15.1	20493	5.3	59.7	101.4	O-T
A9572	Asgrow Mexicana, SA de CV	W	W	79	86	31	15.3	22275	24.0	58.8	100.3	P-T
CM-2452T	CERES INT., de Semillas	W	W	78	78	26	24.7	21582	15.1	55.6	96.5	Q-U
91208Y	Tx. Agri. Exp. Stat.	Y	P	79	83	33	14.3	16236	23.2	57.5	94.6	R-U
GT-06	GLOBAL TECHNOLOGIES, INC	W	W	80	85	36	12.8	20988	5.7	55.5	92.4	S-V
GT-05	GLOBAL TECHNOLOGIES, INC	W	W	80	87	30	13.9	18018	20.9	56.0	85.2	T-V
GT-07	GLOBAL TECHNOLOGIES, INC	W	W	81	88	38	14.4	18711	7.9	57.3	82.6	U-W
GT-04	GLOBAL TECHNOLOGIES, INC	W	W	80	85	34	14.1	19899	8.5	55.4	79.0	U-X
GT-03	GLOBAL TECHNOLOGIES, INC	W	W	82	87	31	11.3	21780	20.9	55.1	75.7	V-X
GT-09	GLOBAL TECHNOLOGIES, INC	W	W	82	86	37	15.4	18315	7.0	56.3	75.1	V-X
GT-10	GLOBAL TECHNOLOGIES, INC	W	W	81	77	34	17.0	17919	7.2	54.3	74.7	V-X
GT-11	GLOBAL TECHNOLOGIES, INC	W	W	84	88	37	14.0	18018	24.2	55.7	65.4	W-Y
GT-01	GLOBAL TECHNOLOGIES, INC	W	W	82	83	28	14.2	19998	16.3	54.7	64.1	X-Y

Table 2A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
GT-02	GLOBAL TECHNOLOGIES, INC	W	W	80	87	33	14.1	21186	7.9	55.4	62.4	X-Y
GT-08	GLOBAL TECHNOLOGIES, INC	W	W	81	76	31	15.9	18216	7.1	58.3	55.6	Y

TEST MEAN= 111.5 TEST C.V.= 9.9 LSD .05= 15.4

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

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

* ICI 8315 and Pioneer 3245 were entered as a commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

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

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9843	HyPerformer Seed Company	1	148.5	1	191.6	-	-
TERRA-TR702E	Terra International, Inc.	2	147.1	-	-	-	-
TERRA-TR1167	Terra International, Inc.	3	139.0	2	184.5	-	-
HS 9502	HyPerformer Seed Company	4	138.1	-	-	-	-
HS 9944	HyPerformer Seed Company	5	136.7	-	-	-	-
8327	Cargill Hybrid Seeds	6	136.2	-	-	-	-
F-3200	Frontier Hybrids, Inc.	7	134.1	-	-	-	-
NC+ 6959	NC+ Hybrids	8	132.5	4	181.8	-	-
3050W	PIONEER OVERSEAS CORP.	9	130.7	-	-	-	-
Myc Grower's 4202	Mycogen Plant Sciences	10	130.5	15	173.7	-	-
2010	TRIUMPH SEED CO., INC.	11	130.1	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	12	130.0	-	-	-	-
EXP. 9138(x)	DEKALB Plant Genetics	13	129.7	-	-	-	-
HS 9905	HyPerformer Seed Company	14	129.4	-	-	-	-
A9751	Asgrow Mexicana, SA de CV	15	127.6	-	-	-	-
7997	Cargill Hybrid Seeds	16	127.4	11	176.0	-	-
CM-CENTELLA	CERES INT., de Semillas	17	126.1	-	-	-	-
NC+ 5037	NC+ Hybrids	18	125.2	-	-	-	-
TERRA-E1168	Terra International, Inc.	19	123.7	-	-	-	-
NC+ 7507	NC+ Hybrids	20	123.1	6	179.9	4	116.3
CHECK (3245)	Tx. Agri. Exp. Stat.	21	122.6	10	177.7	-	-
CM-82	CERES INT., de Semillas	22	122.5	-	-	-	-
AG 4555	Pogue Seed Company	23	122.0	44	147.3	-	-
D799	DEKALB Plant Genetics	24	121.6	-	-	-	-
Myc ORO 166	Mycogen Plant Sciences	25	120.4	-	-	-	-
HS 9848	HyPerformer Seed Company	26	120.1	-	-	-	-
HS 9822	HyPerformer Seed Company	27	118.7	-	-	-	-
Rx945	Asgrow Seed Company	28	118.3	-	-	-	-
CHECK (ICI/Garst 8315)	Tx. Agri. Exp. Stat.	29	117.1	12	174.9	14	110.9
NC+ 7117	NC+ Hybrids	30	116.6	-	-	-	-

Table 2B. Weslaco, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9977	HyPerformer Seed Company	31	114.0	--	--	--	--
A9620	Asgrow Mexicana, SA de CV	32	113.1	--	--	--	--
A9622	Asgrow Mexicana, SA de CV	33	112.8	--	--	--	--
F-3040	Frontier Hybrids, Inc.	34	111.7	--	--	--	--
Myc T-E X-9332	Mycogen Plant Sciences	35	111.6	--	--	--	--
Myc ORO 188	Mycogen Plant Sciences	36	111.4	--	--	--	--
7897	Cargill Hybrid Seeds	37	111.2	--	--	--	--
4682	Delta and Pine Land Company	38	111.1	16	170.3	--	--
NC+ 7665	NC+ Hybrids	39	108.7	--	--	--	--
8427	Cargill Hybrid Seeds	40	107.6	28	161.2	29	104.6
Rx919	Asgrow Seed Company	41	107.2	--	--	--	--
EXP. 27700(x)	DEKALB Plant Genetics	42	106.8	--	--	--	--
TERRA-TR700E	Terra International, Inc.	43	106.1	20	167.7	--	--
Myc T-E 9586	Mycogen Plant Sciences	44	104.7	26	163.1	23	109.0
93202Y	Tx. Agri. Exp. Stat.	45	102.2	--	--	--	--
Rx959W	Asgrow Mexicana, SA de CV	46	101.4	--	--	--	--
A9572	Asgrow Mexicana, SA de CV	47	100.3	--	--	--	--
CM-2452T	CERES INT., de Semillas	48	96.5	--	--	--	--
91208Y	Tx. Agri. Exp. Stat.	49	94.6	--	--	--	--
GT-06	GLOBAL TECHNOLOGIES, INC	50	92.4	--	--	--	--
GT-05	GLOBAL TECHNOLOGIES, INC	51	85.2	--	--	--	--
GT-07	GLOBAL TECHNOLOGIES, INC	52	82.6	--	--	--	--
GT-04	GLOBAL TECHNOLOGIES, INC	53	79.0	--	--	--	--
GT-03	GLOBAL TECHNOLOGIES, INC	54	75.7	--	--	--	--
GT-09	GLOBAL TECHNOLOGIES, INC	55	75.1	--	--	--	--
GT-10	GLOBAL TECHNOLOGIES, INC	56	74.7	--	--	--	--
GT-11	GLOBAL TECHNOLOGIES, INC	57	65.4	--	--	--	--
GT-01	GLOBAL TECHNOLOGIES, INC	58	64.1	--	--	--	--
GT-02	GLOBAL TECHNOLOGIES, INC	59	62.4	--	--	--	--
GT-08	GLOBAL TECHNOLOGIES, INC	60	55.6	--	--	--	--

Table 2B. Weslaco, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ICI/Sunbelt 1803	ICI Seeds(Garst Seed Co)	--	--	21	167.7	22	109.0
HS 9704	HyPerformer Seed Company	--	--	22	167.6	9	113.9
D 736B	DEKALB Plant Genetics	--	--	27	162.5	28	106.4
HS 9911	HyPerformer Seed Company	--	--	30	160.4	26	107.7
CHECK (Myc Grower's 4172)		--	--	31	160.3	3	117.5
NC+ 8410	NC+ Hybrids	--	--	33	159.6	5	115.8
PP9137(X)	DEKALB Plant Genetics	--	--	35	158.6	37	100.8
KING'S 6154	DOUGLASS W. KING CO., INC.	--	--	36	158.3	33	103.5
Myc ORO 188	Mycogen Plant Sciences	--	--	42	148.9	18	110.5
84202Y	Tx. Agri. Exp. Stat.	--	--	48	129.1	44	93.8
Number Entries:		60		48		50	
Test Mean Yield (bu/A):			111.5		164.6		105.5

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

TABLE 3. AGRONOMIC AND TEST INFORMATION: CORPUS CHRISTI

TEST:	1993 Dryland Corn Performance Test
LOCATION:	Texas A&M University Research and Extension Center, Corpus Christi, Texas
COOPERATORS:	Kenneth Schaefer, Dennis Pietsch, Randy Gaas and Leon Synatschk
SOIL TYPE:	Victoria clay
ROW WIDTH:	38"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Stalks shredded, disked, chiseled, and bedded
DATE PLANTED:	2-16-93 by cone planter
DATE THINNED:	3-25-93 thinned to seed company recommendations
PLOT LENGTH:	22'
FERTILIZER:	126+9+0+12(S)+6(Zn); 310 lb/A 25-3-0-4S + 6 lb/A Zinc on 1-16-93; 150 lb/A liquid 32-0-0 on 4-7-93
HERBICIDE:	1 qt/A Atrazine on 4-7-93 1 qt/A Prowl on 4-13-93
INSECTICIDE:	6 lb/A of Counter (terbufos) at planting
RAINFALL:	September '92 =3.75"; October =1.14"; November =2.37"; December =.83"; January =.40"; February =1.58"; March = 2.51"; April = 2.13"; May = 6.34"; June =8.49"; Total =29.54"
IRRIGATIONS:	None
DATE HARVESTED:	7-22-93, with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows, 22' each or 1/312.63 ACF
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	56
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP:	21,177 plants/A
TEST MEAN:	137.6 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	5.8 percent

GENERAL INFORMATION: An excellent seedbed, an optimum planting date, timely rainfall and good management were contributing factors that resulted in outstanding yields at this test site. The test block was prepared in December and received abundant rainfall during the fall and winter months which recharged the soil profile. Seedbed conditions were excellent for the February 16 planting date and seedling emergence was rapid. Timely rains in April and May contributed to continuous plant growth and development. Additional rainfall during the tassel-silk stage insured grain fill.

The test mean yield was 137.8 bu/A with six hybrids producing over 150 bu/A. Broken and lodged plants were not a problem in the test as reflected in the following Table. Test weights were good with the range being from 55.0 lb/bu to 60.3 lb/bu.

Table 3A. CORN PERFORMANCE TEST; CORPUS CHRISTI, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
F-3200	Frontier Hybrids, Inc.	Y	R	80	79	29	14.2	24932	100.0	56.8	158.7	A
3167	Pioneer Hi-Bred Int'l., Inc.	Y	R	84	80	29	12.7	18680	99.6	56.5	156.2	A-B
NC+ 7665	NC+ Hybrids	Y	R	84	88	36	16.1	22197	99.6	56.2	152.9	A-C
Myc T-E 9586	Mycogen Plant Sciences	Y	R	82	83	34	11.9	21728	99.6	56.7	151.9	A-D
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	82	80	31	12.5	21493	100.0	56.7	150.6	A-E
HS 9944	HyPerformer Seed Company	Y	R	82	83	30	14.4	20555	100.0	57.7	150.6	A-E
CHECK	Tx. Agri. Exp. Stat.	Y	R	83	81	31	11.8	22431	99.7	56.9	149.2	A-F
HS 9843	HyPerformer Seed Company	Y	R	80	81	28	14.5	21415	100.0	57.4	147.0	A-G
SC-119	SEEDCO Corporation	Y	R	82	79	28	14.8	22040	99.3	58.4	146.8	A-H
NC+ 6959	NC+ Hybrids	Y	R	80	81	28	15.5	21571	100.0	57.1	146.4	A-I
HS 9977	HyPerformer Seed Company	Y	R	81	79	25	11.7	21571	100.0	60.3	146.3	A-I
NC+ 7507	NC+ Hybrids	Y	R	82	82	30	15.1	21806	100.0	56.9	146.2	A-I
HS 9905	HyPerformer Seed Company	Y	R	80	78	27	15.0	23213	100.0	59.3	146.1	A-I
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	80	79	25	13.7	22744	99.0	57.5	146.1	A-I
Myc ORO 166	Mycogen Plant Sciences	Y	R	81	79	26	13.7	23369	100.0	57.6	144.6	B-J
3085	Pioneer Hi-Bred Int'l., Inc	Y	W	85	88	34	12.9	19852	100.0	56.7	144.4	B-J
W-2170	George Warner Seed Co., Inc	Y	R	81	78	28	15.7	22040	100.0	58.0	144.2	B-J
5154	DOUGLASS W. KING CO., INC.	Y	R	82	83	35	14.1	22431	100.0	57.6	144.0	B-J
HS 9848	HyPerformer Seed Company	Y	R	80	77	29	14.7	22978	100.0	57.7	143.0	B-K
8695	Delta and Pine Land Company	Y	R	81	82	31	13.3	20555	99.6	56.4	142.9	B-K
DK715	DEKALB Plant Genetics	Y	P	78	80	25	15.1	21884	97.9	56.8	142.4	C-K
DK743	DEKALB Plant Genetics	Y	R	82	85	26	13.7	22119	98.2	56.7	141.6	C-L
N8811	Northrup King Company	Y	R	81	80	33	11.2	21337	99.6	59.8	141.4	C-L
8315	ICI Seeds	Y	R	83	82	31	15.0	19696	99.2	57.8	141.2	C-L
Myc ORO 188	Mycogen Plant Sciences	Y	R	82	82	34	12.9	21650	99.6	55.6	141.1	C-L
Myc T-E X-9319	Mycogen Plant Sciences	Y	R	78	80	29	14.2	21728	100.0	58.1	141.0	C-L
5114	DOUGLASS W. KING CO., INC.	Y	R	81	80	30	15.2	22666	100.0	57.8	141.0	C-L
CHECK	Tx. Agri. Exp. Stat.	Y	R	82	82	33	16.5	21884	97.9	56.9	140.5	C-L
NC+ 7117	NC+ Hybrids	Y	R	81	77	27	15.3	22431	100.0	58.2	139.6	C-M
NC+ 5037	NC+ Hybrids	Y	R	80	75	26	13.8	21415	100.0	56.2	139.1	C-M

Table 3A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days		Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches								
91208Y	Tx. Agri. Exp. Stat.	Y	P	82	80	31	15.7	20165	100.0	57.2	138.2	D-N	
9239X	DOUGLASS W. KING CO., INC.	Y	P	83	79	29	12.2	22119	100.0	56.3	137.5	E-N	
Myc Grower's 4715	Mycogen Plant Sciences	Y	W	80	82	28	15.7	22040	100.0	60.1	136.2	F-O	
X748	Northrup King Company	Y	R	81	78	28	14.7	20868	100.0	58.8	136.0	F-O	
Myc T-E X-9348	Mycogen Plant Sciences	Y	R	79	81	28	14.4	21493	98.5	58.2	136.0	F-O	
3245	Pioneer Hi-Bred Int'l., Inc	Y	P	81	82	26	14.2	18836	100.0	59.5	135.7	F-O	
Rx899	Asgrow Seed Company	Y	R	82	77	29	15.5	21962	100.0	57.1	135.4	F-O	
Fill	Tx. Agri. Exp. Stat.	Y	W	84	91	39	22.7	22040	99.3	55.3	135.1	F-O	
Myc Grower's 4626	Mycogen Plant Sciences	W	W	82	82	29	13.0	21337	98.9	58.7	135.1	F-O	
9265x	DOUGLASS W. KING CO., INC.	Y	R	81	81	29	14.5	22900	99.7	57.7	133.2	G-O	
G-4673B	Delta and Pine Land Company	Y	R	81	81	29	14.4	19852	99.2	57.8	132.9	G-O	
4581	Delta and Pine Land Company	Y	R	82	78	28	15.0	20529	100.0	58.9	132.7	H-O	
4682	Delta and Pine Land Company	Y	R	84	79	29	14.9	19618	100.0	55.0	132.3	I-O	
3163	Pioneer Hi-Bred Int'l., Inc	Y	R	82	82	29	15.6	19383	97.2	56.4	131.7	J-O	
Rx919	Asgrow Seed Company	Y	R	81	81	28	15.1	20243	98.5	58.3	131.3	J-P	
92218Y	Tx. Agri. Exp. Stat.	Y	P	83	79	27	14.9	20712	100.0	55.8	129.4	K-P	
3156	Pioneer Hi-Bred Int'l., Inc	Y	R	81	82	30	16.5	19774	100.0	57.7	128.1	L-P	
TS-777	Texas Seed Co., Inc.	Y	R	77	75	23	15.9	20165	98.1	59.3	126.5	M-P	
F-3040	Frontier Hybrids, Inc.	Y	R	78	78	26	13.6	23760	100.0	57.2	124.8	N-P	
3394	Pioneer Hi-Bred Int'l., Inc	Y	R	77	76	23	13.5	20399	100.0	56.8	123.6	O-P	
9240x	DOUGLASS W. KING CO., INC.	Y	R	83	82	27	13.8	22588	97.6	57.6	123.6	O-P	
8327	Cargill Hybrid Seeds	Y	R	79	79	28	14.4	17898	100.0	58.4	123.5	O-P	
7997	Cargill Hybrid Seeds	Y	R	78	82	26	13.8	16804	100.0	58.5	118.3	P-Q	
8281x	ICI Seeds	Y	R	79	75	23	13.7	20321	100.0	58.3	106.7	Q-R	
7897	Cargill Hybrid Seeds	Y	R	81	84	33	14.0	17976	100.0	56.3	106.6	Q-R	
8427	Cargill Hybrid Seeds	Y	R	77	76	21	15.2	17742	100.0	59.1	104.7	R	

TEST MEAN= 137.6 TEST C.V= 5.8 LSD .05= 11.1

Table 3A. (CONTINUED)

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

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

* Pioneer 3165 and DEKALB DK 689 were entered as check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Table 3B. Three Year Summary, Corn Performance Test, Corpus Christi, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
F-3200	Frontier Hybrids, Inc.	1	158.7	-	-	-	-
3167	Pioneer Hi-Bred Int'l., Inc	2	156.2	-	-	-	-
NC+ 7665	NC+ Hybrids	3	152.9	-	-	-	-
Myc T-E 9586	Mycogen Plant Sciences	4	151.9	-	-	-	-
Myc Grower's 4172	Mycogen Plant Sciences	5	150.6	38	122.3	18	94.3
HS 9944	HyPerformer Seed Company	6	150.6	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	7	149.2	-	-	-	-
HS 9843	HyPerformer Seed Company	8	147.0	4	153.6	-	-
SC-119	SEEDCO Corporation	9	146.8	-	-	-	-
NC+ 6959	NC+ Hybrids	10	146.4	18	138.7	-	-
HS 9977	HyPerformer Seed Company	11	146.3	3	155.1	-	-
NC+ 7507	NC+ Hybrids	12	146.2	8	147.6	20	92.2
HS 9905	HyPerformer Seed Company	13	146.1	2	160.3	-	-
Myc Grower's 4202	Mycogen Plant Sciences	14	146.1	-	-	-	-
Myc ORO 166	Mycogen Plant Sciences	15	144.6	-	-	-	-
3085	Pioneer Hi-Bred Int'l., Inc	16	144.4	5	149.3	32	79.9
W-2170	George Warner Seed Co., Inc	17	144.2	-	-	-	-
9106x	DOUGLASS W. KING CO., INC.	18	144.0	-	-	-	-
HS 9848	HyPerformer Seed Company	19	143.0	-	-	-	-
8695	Delta and Pine Land Company	20	142.9	26	131.4	-	-
DK715	DEKALB Plant Genetics	21	142.4	27	131.3	23	91.5
DK743	DEKALB Plant Genetics	22	141.6	41	116.5	14	98.0
N8811	Northrup King Company	23	141.4	-	-	-	-
8315	ICI Seeds	24	141.2	-	-	-	-
Myc ORO 188	Mycogen Plant Sciences	25	141.1	30	129.6	-	-
Myc T-E X-9319	Mycogen Plant Sciences	26	141.0	-	-	-	-
5114	DOUGLASS W. KING CO., INC.	27	141.0	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	28	140.5	-	-	-	-
NC+ 7117	NC+ Hybrids	29	139.6	-	-	-	-
NC+ 5037	NC+ Hybrids	30	139.1	-	-	-	-

Table 3B. Corpus Christi, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
91208Y	Tx. Agri. Exp. Stat.	31	138.2	-	-	-	-
9239x	DOUGLASS W. KING CO., INC.	32	135.7	-	-	-	-
Myc Grower's 4715	Mycogen Plant Sciences	33	136.2	10	147.0	-	-
X748	Northrup King Company	34	136.0	-	-	-	-
Myc T-E X-9348	Mycogen Plant Sciences	35	136.0	-	-	-	-
3245	Pioneer Hi-Bred Int'l., Inc	36	135.7	42	114.9	2	110.7
Rx899	Asgrow Seed Company	37	135.4	-	-	-	-
Fill	Tx. Agri. Exp. Stat.	38	135.1	-	-	-	-
Myc Grower's 4626	Mycogen Plant Sciences	39	135.1	7	147.8	-	-
9265x	DOUGLASS W. KING CO., INC.	40	133.2	-	-	-	-
G-4673B	Delta and Pine Land Company	41	132.9	36	127.6	22	91.5
4581	Delta and Pine Land Company	42	132.7	-	-	-	-
4682	Delta and Pine Land Company	43	132.3	11	146.8	-	-
3163	Pioneer Hi-Bred Int'l., Inc	44	131.7	12	145.1	-	-
Rx919	Asgrow Seed Company	45	131.3	-	-	-	-
92218Y	Tx. Agri. Exp. Stat.	46	129.4	-	-	-	-
3156	Pioneer Hi-Bred Int'l., Inc	47	128.1	21	137.2	-	-
TS-777	Texas Seed Co., Inc.	48	126.5	13	143.0	9	100.8
F-3040	Frontier Hybrids, Inc.	49	124.8	-	-	-	-
3394	Pioneer Hi-Bred Int'l., Inc	50	123.6	28	130.5	-	-
9240x	DOUGLASS W. KING CO., INC.	51	123.6	-	-	-	-
8327	Cargill Hybrid Seeds	52	123.5	-	-	-	-
7997	Cargill Hybrid Seeds	53	118.3	16	139.5	-	-
8281x	ICI Seeds	54	106.7	-	-	-	-
7897	Cargill Hybrid Seeds	55	106.6	-	-	-	-
8427	Cargill Hybrid Seeds	56	104.7	19	138.1	17	95.6
NC+ 7304	NC+ Hybrids	-	-	1	161.9	8	102.1
Myc T-E 6994	Mycogen Plant Sciences	-	-	20	137.3	3	104.5
Myc T-E 6996	Mycogen Plant Sciences	-	-	23	136.7	31	86.2
91204Y	Tx. Agri. Exp. Stat.	-	-	29	130.5	16	95.7

Table 3B. Corpus Christi, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9911	HyPerformer Seed Company	--	--	--	--	--	--
GSC 4192	Gro Agri Seed Co.	--	--	--	--	--	--
G-4666	Delta and Pine Land Company	--	--	--	--	--	--
GSC 4172	Gro Agri Seed Co.	--	--	--	--	--	--
Number Entries:		56		46		36	
Test Mean Yield (bu/A):			137.6		134.2		93.5

Note: Hybrids with the same yields were ranked by computer

TABLE 4.

AGRONOMIC AND TEST INFORMATION: CASTROVILLE

TEST:	1993 Irrigated Corn Performance Test
LOCATION:	Stinson & Stinson, Inc., Castroville, Texas
COOPERATORS:	Hilton Stinson, R. Q. Stinson, Wayne Scholtz, Steve Bradshaw, Dennis Pietsch, Randy Gaas, and Leon Synatschk
SOIL TYPE:	Castroville clay loam
ROW WIDTH:	36"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Shred stalks, disked twice, chiseled, bedded
DATE PLANTED:	3-11-93, hand dropped through a JD 80 planter
DATE THINNED:	4-5&6-93, thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	114+19+0+10(S)+2(Zn); Applied 475 lb/A of 24-4-0-2S + 2lb/A Zinc sidedress early April
HERBICIDE:	1 qt/A Atrazine in January
INSECTICIDE:	7 lb/A of Counter at Planting
RAINFALL:	March= 3.5" April= 2.6" May= 9.8" June= 9.3" July= 0.0" Total= 25.2"
IRRIGATIONS:	Applied 2 irrigations of approximately 3" each during growing season
DATE HARVESTED:	8-3&4-93 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Restricted randomized block
NUMBER ENTRIES:	53
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	23,300 plants/A
TEST MEAN:	164.4 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	5.6 percent

GENERAL INFORMATION: This test site is representative of conditions in the Medina Valley Area of Texas which is considered a major food corn growing area of Texas. Fifty-four hybrids were entered by 17 commercial companies and the Texas Agricultural Experiment Station. Abundant rainfall and good growing conditions were contributing factors that resulted in outstanding yields. After the test block was planted, a period of cool temperatures were recorded but did not affect seedling emergence. Excellent plant stands were attained after thinning. The test block was irrigated twice during the growing season and each time followed by heavy rains which allowed for continuous plant growth and development.

The test mean yield was 164.4 bu/A compared to 148.3 bu/A in 1992. Sixteen hybrids in the test produced over 170 bu/A. Excellent bushel weights were recorded as reflected in the following Table. The incidence of broken and lodged plants were very low. This was a very uniform test as indicated by the low coefficient of variation (5.6%).

Table 4A. CORN PERFORMANCE TEST; CASTROVILLE, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	78	111	43	12.3	25192	99.7	57.3	196.6	A
Myc ORO 166	Mycogen Plant Sciences	Y	R	79	111	45	12.0	25991	100.0	54.9	188.3	A-B
DK743	DEKALB Plant Genetics	Y	R	79	114	46	15.4	25265	100.0	59.3	183.7	A-C
F-3200	Frontier Hybrids, Inc.	Y	R	78	105	44	12.3	24248	100.0	52.8	182.0	A-D
TERRA - TR702E	Terra International, Inc.	Y	R	80	104	45	13.9	26789	100.0	59.3	179.7	A-E
TERRA - TR1167	Terra International, Inc.	Y	R	78	105	47	12.5	24394	100.0	57.1	178.1	B-F
TERRA - E1168	Terra International, Inc.	Y	R	79	108	45	12.0	26499	100.0	55.0	176.7	B-G
3163	Pioneer Hi-Bred Int'l., Inc.	Y	R	80	110	43	13.2	21199	100.0	56.3	176.6	B-H
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	79	106	49	15.4	24248	100.0	56.5	174.4	B-I
Myc T-E 7070	Mycogen Plant Sciences	Y	R	78	113	45	11.8	23014	100.0	58.9	174.2	B-J
3245	Pioneer Hi-Bred Int'l., Inc.	Y	P	79	109	42	12.3	21635	100.0	57.5	172.5	C-K
G-4673B	Delta and Pine Land Company	Y	R	77	110	45	12.9	23014	100.0	56.9	172.2	C-K
Myc ORO 188	Mycogen Plant Sciences	Y	R	79	109	48	15.4	24902	100.0	58.9	171.9	C-L
8695	Delta and Pine Land Company	Y	R	79	109	51	15.4	22143	99.7	57.5	171.7	C-L
HS 9905	HyPerformer Seed Company	Y	R	77	101	38	14.5	23595	100.0	58.9	171.3	C-M
Rx919	Asgrow Seed Company	Y	R	79	117	49	13.4	23014	100.0	57.3	171.0	C-M
HS 9977	HyPerformer Seed Company	Y	R	79	102	40	14.8	24031	100.0	59.4	169.7	C-N
TERRA - TR700E	Terra International, Inc.	Y	R	79	105	46	15.5	23450	100.0	57.5	169.1	C-O
Myc T-E X-9341	Mycogen Plant Sciences	Y	R	79	111	50	15.8	22288	99.7	57.9	168.7	C-O
Rx 945	Asgrow Seed Company	Y	W	79	116	48	14.5	22433	100.0	58.6	168.1	C-O
DK689	DEKALB Plant Genetics	Y	R	80	108	47	12.3	24394	100.0	58.5	166.9	D-P
HS 9944	HyPerformer Seed Company	Y	R	80	112	49	13.5	22724	100.0	58.0	166.7	D-Q
7897	Cargill Hybrid Seeds	Y	R	78	114	51	13.0	22506	100.0	57.7	166.6	D-Q
93206Y	Tx. Agri. Exp. Stat.	Y	P	79	110	47	13.5	22506	100.0	56.3	166.4	D-Q
Myc T-E X-9341	Mycogen Plant Sciences	Y	R	81	109	47	14.4	22651	99.7	57.1	166.0	D-Q
Myc Grower's Exp. 7388	Mycogen Plant Sciences	Y	R	76	109	49	12.1	24539	100.0	57.3	165.7	E-Q
3167	Pioneer Hi-Bred Int'l., Inc.	Y	R	81	108	41	16.1	20836	100.0	55.4	165.0	E-Q
Myc ORO Exp. 5309x	Mycogen Plant Sciences	Y	R	80	109	48	13.5	22143	100.0	59.0	165.0	E-Q
HS 9843	HyPerformer Seed Company	Y	R	78	106	50	12.1	23813	100.0	55.7	164.6	E-Q
3156	Pioneer Hi-Bred Int'l., Inc.	Y	R	77	109	46	12.5	22433	99.7	58.0	163.9	E-Q

Table 4A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc Grower's 4214 8427	Mycogen Plant Sciences Cargill Hybrid Seeds	Y	R	79	107	46	12.0	25628	100.0	56.8	162.4	F-R
X748	Northrup King Company	Y	R	75	97	34	13.2	24902	100.0	58.9	162.2	F-R
9239x	DOUGLASS W. KING CO., INC.	Y	R	78	107	47	12.0	23595	100.0	55.3	162.1	F-R
HS 9848	HyPerformer Seed Company	Y	R	79	109	48	14.8	23813	100.0	59.5	160.6	G-R
		Y	R	78	107	45	12.0	24539	100.0	58.2	160.4	H-R
F-3040 7997	Frontier Hybrids, Inc. Cargill Hybrid Seeds	Y	R	75	103	45	11.5	24466	100.0	56.1	160.2	I-R
5114	DOUGLASS W. KING CO., INC.	Y	R	76	110	39	11.9	21199	100.0	55.1	158.6	I-S
N8811	Northrup King Company	Y	R	79	110	48	11.9	22143	100.0	59.6	158.4	I-S
8315	ICI Seeds	Y	R	78	102	38	14.5	21635	100.0	58.6	157.8	J-S
		Y	R	80	110	49	12.0	20618	100.0	57.6	157.8	J-S
91208Y 4682	Tx. Agri. Exp. Stat. Delta and Pine Land Company	Y	P	78	107	45	13.3	23232	100.0	57.0	157.3	K-S
8327	Cargill Hybrid Seeds	Y	R	81	104	46	12.6	24684	100.0	57.0	155.7	L-S
9292x	DOUGLASS W. KING CO., INC.	Y	R	78	108	49	12.3	23522	100.0	56.2	155.6	L-S
93204Y	Tx. Agri. Exp. Stat.	Y	P	79	109	45	15.2	24684	100.0	58.3	155.3	M-S
		Y	W	79	109	44	13.6	23668	100.0	57.2	155.1	M-S
9297x 8281x	DOUGLASS W. KING CO., INC. ICI Seeds	Y	P	81	115	45	16.7	24103	100.0	56.5	154.1	N-S
Rx896	Asgrow Seed Company	Y	R	77	100	42	11.5	21054	100.0	53.4	153.3	O-S
Myc 7220	Mycogen Plant Sciences	Y	R	79	106	44	11.7	22216	100.0	57.5	151.3	P-S
9265x	DOUGLASS W. KING CO., INC.	Y	R	75	101	43	11.3	22361	100.0	56.0	150.6	Q-S
		Y	R	78	103	40	13.2	23305	99.7	57.3	147.7	R-S
3394 TS-777	Pioneer Hi-Bred Int'l., Inc. Texas Seed Co., Inc.	Y	R	76	102	41	10.9	22288	100.0	55.6	146.4	R-S
CHECK	Tx. Agri. Exp. Stat.	Y	R	76	104	38	13.2	21562	100.0	57.7	144.2	S
		W	W	83	116	51	17.6	19820	98.5	56.3	118.6	T

TEST MEAN= 164.4 TEST C.V.= 5.6 LSD .05= 12.9

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

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

Table 4A. (CONTINUED)

* **Asgrow Rx 405W** was entered as a commercial check hybrid at our discretion. The hybrid is intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Table 4B. Three-year summary, Corn Performance Test, Castroville, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc Grower's 4202	Mycogen Plant Sciences	1	196.9	7	163.5	-	-
Myc ORO 166	Mycogen Plant Sciences	2	188.3	-	-	-	-
DK743	DEKALB Plant Genetics	3	183.7	-	-	-	-
F-3200	Frontier Hybrids, Inc.	4	182.0	-	-	-	-
TERRA-TR702E	Terra International, Inc.	5	179.7	-	-	-	-
TERRA-TR1167	Terra International, Inc.	6	178.1	21	149.1	-	-
TERRA-E1168	Terra International, Inc.	7	176.7	-	-	-	-
3163	Pioneer Hi-Bred Int'l., Inc	8	176.6	2	173.3	-	-
Myc Grower's 4172	Mycogen Plant Sciences	9	174.4	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	10	174.2	-	-	-	-
3245	Pioneer Hi-Bred Int'l., Inc	11	172.5	6	165.2	3	176.3
G-4673B	Delta and Pine Land Company	12	172.2	-	-	-	-
Myc ORO 188	Mycogen Plant Sciences	13	171.9	23	147.9	4	173.2
8695	Delta and Pine Land Company	14	171.7	-	-	-	-
HS 9905	HyPerformer Seed Company	15	171.3	4	167.3	-	-
Rx919	Asgrow Seed Company	16	171.0	-	-	-	-
HS 9977	HyPerformer Seed Company	17	169.7	12	155.4	-	-
TERRA-TR700E	Terra International, Inc.	18	169.1	10	160.9	-	-
Myc T-E X-9341	Mycogen Plant Sciences	19	168.7	-	-	-	-
Rx 945	Asgrow Seed Company	20	168.1	-	-	-	-
DK689	DEKALB Plant Genetics	21	166.9	-	-	-	-
HS 9944	HyPerformer Seed Company	22	166.7	-	-	-	-
7897	Cargill Hybrid Seeds	23	166.6	-	-	-	-
93206Y	Tx. Agri. Exp. Stat.	24	166.4	-	-	-	-
Myc T-E X-9341	Mycogen Plant Sciences	25	166.0	-	-	-	-
Myc Grower's Exp. 7388	Mycogen Plant Sciences	26	165.7	-	-	-	-
3167	Pioneer Hi-Bred Int'l., Inc	27	165.0	-	-	-	-
Myc ORO Exp. 5309x	Mycogen Plant Sciences	28	165.0	-	-	-	-
HS 9843	HyPerformer Seed Company	29	164.6	3	170.8	-	-
3156	Pioneer Hi-Bred Int'l., Inc	30	163.9	27	144.0	-	-

Table 4B. Castroville, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc Grower's 4214	Mycogen Plant Sciences	31	162.4	--	--	--	--
8427	Cargill Hybrid Seeds	32	162.2	--	--	--	--
X748	Northrup King Company	33	162.1	--	--	--	--
9239x	DOUGLASS W. KING CO., INC.	34	160.6	--	--	--	--
HS 9848	HyPerformer Seed Company	35	160.4	--	--	--	--
F-3040	Frontier Hybrids, Inc.	36	160.2	--	--	--	--
7997	Cargill Hybrid Seeds	37	158.6	--	--	--	--
5114	DOUGLASS W. KING CO., INC.	38	158.4	--	--	--	--
N8811	Northrup King Company	39	157.8	--	--	--	--
8315	ICI Seeds	40	157.8	--	--	--	--
91208Y	Tx. Agri. Exp. Stat.	41	157.3	9	160.9	--	--
4682	Delta and Pine Land Company	42	155.7	26	144.9	--	--
8327	Cargill Hybrid Seeds	43	155.6	--	--	--	--
9292x	DOUGLASS W. KING CO., INC.	44	155.3	--	--	--	--
93204Y	Tx. Agri. Exp. Stat.	45	155.1	--	--	--	--
9297x	DOUGLASS W. KING CO., INC.	46	154.1	--	--	--	--
8281x	ICI Seeds	47	153.3	--	--	--	--
Rx896	Asgrow Seed Company	48	151.3	--	--	--	--
Myc T-E X-9320	Mycogen Plant Sciences	49	150.6	--	--	--	--
9265x	DOUGLASS W. KING CO., INC.	50	147.7	--	--	--	--
3394	Pioneer Hi-Bred Int'l., Inc	51	146.4	32	131.8	--	--
TS-777	Texas Seed Co., Inc.	52	144.2	29	140.9	18	157.5
CHECK (Rx 405W)	Tx. Agri. Exp. Stat.	53	118.6	25	147.1	23	154.5
Myc T-E 9586	Mycogen Plant Sciences	--	--	8	162.7	8	167.9
3085	Pioneer Hi-Bred Int'l., Inc	--	--	11	157.1	2	177.2
91202Y	Tx. Agri. Exp. Stat.	--	--	13	154.6	21	155.6
G-4673B	Delta and Pine Land Company	--	--	15	153.3	26	149.8
91204Y	Tx. Agri. Exp. Stat.	--	--	24	147.3	11	164.8
Number Entries:		53		38		44	
Test Mean Yield (bu/A):			164.4		148.3		157.3

TABLE 5. AGRONOMIC AND TEST INFORMATION: WHARTON

TEST:	1993 Dryland Corn Performance Test
LOCATION:	Larry Kalina Farm, Wharton, Texas
COOPERATORS:	Larry Kalina, Dennis Pietsch, Randy Gaas, Leon Synatschk, and John Coper
SOIL TYPE:	Asa sandy clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Disked, bedded, re-bedded, hipped, fertilized, and cultivated
DATE PLANTED:	4-19-93, hand dropped through a JD Max-Emerge planter
DATE THINNED:	5-15-93, thinned to seed company recommendations
PLOT LENGTH:	25 feet
FERTILIZER:	188+53+0+15(S); 550 lb/A of 25-7-0-2(S) preplant; sidedress 200 lbA of 25-7-0-2(S)
HERBICIDE:	Broadcast Bullet (Atrazine 1.5 lb/gal + Alachlor 2.5 lb/gal) at label rate
INSECTICIDE:	7 lb/A Force at planting
RAINFALL:	Jan = 4.7", Feb = 7.8" March = 6.0", April = 7.2", May = 9.0", June = 9.5", July = 0.0", Aug = 1.0 Sept. = 0.7 Total = 45.9"
IRRIGATIONS:	None
DATE HARVESTED:	8-19-93 with a combine provided by Asgrow Seed Co.
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	64
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	22,742 plants/A
TEST MEAN:	131.9 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	9.8 percent

GENERAL INFORMATION: Conditions were not favorable for maximum corn production in this area. Prolonged periods of rainfall from December to March hampered normal field operations thus delaying planting. The test was planted on April 19, which was approximately six weeks later than the optimum date for this area. Seedling emergence was rapid and excellent plant stands were attained after thinning.

Despite the late planting, exceptional yields were still attained. Yields from the test block may be higher than in surrounding areas because the test was planted in a well drained area of the field.

The test mean yield was 131.9 bu/A compared to 163.7 bu/A in 1992. Thirteen hybrids in the test produced over 140 bu/A. Lodging and broken plants were not a problem as reflected in the following Table.

Appreciation is expressed to Asgrow Seed Co. for providing a plot combine to harvest the test. Plot weight, test weight, and moisture were recorded with electronic equipment mounted on the combine.

Table 5A. CORN PERFORMANCE TEST; WHARTON, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days		Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches								
TERRA -TR700E 3245	Terra International, Inc. Pioneer Hi-Bred Int'l., Inc	Y	R	61	107	46	17.3	25356	100.0	54.6	157.3	A	
HS 9905	HyPerformer Seed Company	Y	P	61	110	42	15.7	20062	100.0	58.3	150.3	A-B	
8281X	ICI Seeds	Y	R	60	102	38	17.7	24112	100.0	56.0	145.0	A-C	
ORO 166	ORO Hybrids/AgriGenetics	Y	R	61	103	42	14.7	23134	99.4	56.8	144.8	A-C	
		Y	R	62	105	45	13.7	25617	100.0	56.3	144.3	A-D	
7997	Cargill Hybrid Seeds	Y	R	60	107	41	14.0	20912	100.0	57.5	143.9	A-D	
3156	Pioneer Hi-Bred Int'l., Inc	Y	R	62	109	47	17.3	20389	100.0	55.9	142.9	A-E	
TERRA -TR1167	Terra International, Inc.	Y	R	62	105	45	15.3	23657	100.0	56.7	142.1	A-F	
TERRA -TR702E	Terra International, Inc.	Y	R	62	102	43	16.8	24746	98.9	56.4	141.7	A-F	
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	62	106	42	14.0	24964	100.0	56.9	140.9	A-G	
6164	DOUGLASS W. KING CO., INC.	Y	W	64	109	48	17.7	25029	99.7	52.9	140.4	A-G	
HS 9502	HyPerformer Seed Company	Y	R	60	102	42	14.0	23330	100.0	55.4	140.1	A-G	
8315	ICI Seeds	Y	R	63	108	49	14.7	20912	99.7	57.0	140.0	A-G	
NC+ 6959	NC+ Hybrids	Y	R	61	105	45	15.2	21827	99.4	56.8	139.8	A-G	
Rx919	Asgrow Seed Company	Y	R	63	111	46	17.0	22611	99.7	55.5	139.7	A-G	
HS 9911	HyPerformer Seed Company	Y	R	62	107	46	16.3	22154	100.0	56.7	139.5	A-G	
TERRA - E1168	Terra International, Inc.	Y	R	62	104	42	14.0	24768	100.0	57.1	139.3	A-G	
F-3200	Frontier Hybrids, Inc.	Y	R	62	106	46	15.3	25617	99.5	56.8	137.7	A-H	
NC+ 5037	NC+ Hybrids	Y	R	60	103	45	14.0	21500	99.7	55.7	137.2	A-H	
F-3040	Frontier Hybrids, Inc.	Y	R	58	106	42	15.3	24702	100.0	57.6	137.1	A-H	
3085	Pioneer Hi-Bred Int'l., Inc.	Y	W	63	119	54	17.2	18995	98.6	56.1	137.0	A-H	
Myc T-E X-9348	Mycogen Plant Sciences	Y	R	61	109	47	14.9	23983	100.0	57.1	136.6	A-H	
8260	ICI Seeds	Y	R	60	105	41	14.4	23700	100.0	57.7	136.5	A-H	
3167	Pioneer Hi-Bred Int'l., Inc	Y	R	63	105	43	19.2	19997	99.7	54.0	136.1	A-H	
6157x	Delta and Pine Land Company	Y	R	61	109	43	15.7	22415	100.0	57.2	133.9	A-H	
CHECK	Tx. Agri. Exp. Stat.	*	*	60	105	41	15.1	22380	100.0	56.4	133.9	A-H	
DK743	DEKALB Plant Genetics	Y	R	61	112	45	18.9	22284	99.7	54.7	133.8	A-H	
HS 9822	HyPerformer Seed Company	Y	R	62	107	40	13.7	23983	99.2	57.1	133.5	A-H	
X748	Northrup King Company	Y	R	60	107	42	14.3	21870	100.0	56.8	133.4	B-H	
3394	Pioneer Hi-Bred Int'l., Inc	Y	R	59	104	43	13.9	21108	99.7	56.9	132.8	B-H	

Table 5A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc Grower's 4192	Mycogen Plant Sciences	Y	R	59	103	39	16.6	25421	100.0	57.9	132.0	B-H
3163	Pioneer Hi-Bred Int'l., Inc	Y	R	64	105	38	16.4	20651	100.0	55.3	131.8	B-H
6154	DOUGLASS W. KING CO., INC.	Y	R	63	111	47	14.8	25182	99.3	55.7	131.7	B-H
TS-777	Texas Seed Co., Inc.	Y	R	58	103	34	15.6	23199	100.0	56.8	131.7	B-H
7897	Cargill Hybrid Seeds	Y	R	61	112	48	16.9	19605	100.0	56.9	131.7	B-H
HS 9843	HyPerformer Seed Company	Y	R	62	104	46	15.3	21882	100.0	57.1	130.6	B-H
8327	Cargill Hybrid Seeds	Y	R	62	104	44	15.6	22873	100.0	55.8	129.5	B-H
Myc T-E 7070	Mycogen Plant Sciences	Y	R	64	106	45	13.9	24310	99.5	57.4	128.9	B-H
NC+ 7507	NC+ Hybrids	Y	R	64	106	48	14.5	19997	99.0	56.8	128.9	B-H
Myc T-E 9586	Mycogen Plant Sciences	Y	R	62	106	41	17.8	23134	100.0	55.1	128.8	B-H
8427	Cargill Hybrid Seeds	Y	R	58	105	36	16.8	22023	100.0	57.0	128.6	B-H
Rx896	Asgrow Seed Company	Y	R	62	105	41	13.7	22829	100.0	55.7	128.4	B-H
Myc ORO Exp. 5309x	Mycogen Plant Sciences	Y	R	62	104	46	15.8	23962	99.6	56.9	128.2	B-H
DK715	DEKALB Plant Genetics	Y	P	61	105	40	15.4	23591	99.4	57.0	128.0	B-H
8695	Delta and Pine Land Company	Y	R	61	109	47	18.4	20651	99.7	55.0	127.3	B-H
Myc T-E 7065	Mycogen Plant Sciences	Y	R	62	103	44	14.5	23526	98.6	57.0	127.1	B-H
W-2170	George Warner Seed Co., Inc	Y	R	62	104	44	14.4	21958	100.0	57.7	125.9	C-H
N8811	Northrup King Company	Y	R	62	104	40	16.8	20912	99.4	57.6	125.4	C-H
Myc Grower's 4214	Mycogen Plant Sciences	Y	R	63	105	43	14.5	24964	99.7	58.2	124.8	C-H
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	62	106	45	17.4	25029	100.0	55.4	124.8	C-H
91208Y	Tx. Agri. Exp. Stat.	Y	P	63	108	47	14.6	23134	100.0	55.0	124.6	C-H
Myc ORO 188	Mycogen Plant Sciences	Y	R	63	108	45	18.5	21958	100.0	54.9	124.5	C-H
4682	Delta and Pine Land Company	Y	R	64	106	45	16.1	21239	100.0	54.5	124.2	C-H
HS 9977	HyPerformer Seed Company	Y	R	63	104	40	17.3	21631	99.7	57.0	123.5	C-H
93206Y	Tx. Agri. Exp. Stat.	Y	P	62	111	45	16.5	22742	100.0	53.8	123.3	C-H
CHECK	Tx. Agri. Exp. Stat.	*	*	61	103	40	14.4	22284	100.0	55.4	122.0	C-H
5154	DOUGLASS W. KING CO., INC.	Y	R	62	106	46	16.0	23265	99.4	55.8	121.0	C-H
NC+ 7665	NC+ Hybrids	Y	R	65	106	45	15.1	20389	99.4	54.9	120.7	C-H
HB 127002(X)	HyPerformer Seed Company	Y	R	64	102	39	14.2	22088	100.0	55.9	120.7	C-H
Myc Grower's 4715	Mycogen Plant Sciences	Y	R	62	105	42	18.2	24180	96.2	57.2	120.3	D-H

Table 5A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
HS 9848	HyPerformer Seed Company	Y	R	62	106	44	14.3	21827	100.0	57.0	118.6	E-H
NC+ 7117	NC+ Hybrids	Y	R	64	102	40	14.3	20912	100.0	57.3	118.2	F-H
CHECK	Tx. Agri. Exp. Stat.	*	*	65	105	43	18.7	25356	100.0	53.2	116.6	G-H
HS 9944	HyPerformer Seed Company	Y	R	63	105	43	14.4	23461	99.7	55.9	114.6	H

TEST MEAN= 131.9 TEST C.V.= 9.8 LSD .05= 18.9

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

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

* Delta and Pine Land G-4673B, Pioneer 3317, and Pioneer 3165 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: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Table 5B. Three-year summary, Corn Performance Test, Wharton, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
TERRA-TR700E	Terra International, Inc.	1	157.3	14	172.9	-	-
3245	Pioneer Hi-Bred Int'l., Inc	2	150.3	21	168.5	41	88.2
HS 9905	HyPerformer Seed Company	3	145.0	-	-	-	-
8281X	ICI Seeds	4	144.8	-	-	-	-
Myc ORO 166	Mycogen Plant Sciences	5	144.3	-	-	-	-
7997	Cargill Hybrid Seeds	6	143.9	33	163.7	-	-
3156	Pioneer Hi-Bred Int'l., Inc	7	142.9	-	-	-	-
TERRA-TR1167	Terra International, Inc.	8	142.1	38	160.4	-	-
TERRA-TR702E	Terra International, Inc.	9	141.7	-	-	-	-
Myc Grower's 4202	Mycogen Plant Sciences	10	140.9	32	163.9	-	-
9206x	DOUGLASS W. KING CO., INC.	11	140.4	-	-	-	-
HS 9502	HyPerformer Seed Company	12	140.1	-	-	-	-
8315	ICI Seeds	13	140.0	-	-	-	-
NC+ 6959	NC+ Hybrids	14	139.8	34	163.0	-	-
Rx919	Asgrow Seed Company	15	139.7	-	-	-	-
HS 9911	HyPerformer Seed Company	16	139.5	48	151.0	5	117.9
TERRA-E1168	Terra International, Inc.	17	139.3	-	-	-	-
F-3200	Frontier Hybrids, Inc.	18	137.7	-	-	-	-
NC+ 5037	NC+ Hybrids	19	137.2	-	-	-	-
F-3040	Frontier Hybrids, Inc.	20	137.1	-	-	-	-
3085	Pioneer Hi-Bred Int'l., Inc	21	137.0	-	-	-	-
Myc T-E X-9348	Mycogen Plant Sciences	22	136.6	-	-	-	-
8260	ICI Seeds	23	136.5	-	-	-	-
3167	Pioneer Hi-Bred Int'l., Inc	24	136.1	-	-	-	-
6157x	Delta and Pine Land Company	25	133.9	-	-	-	-
CHECK (3165)	Tx. Agri. Exp. Stat.	26	133.9	20	168.6	9	113.4
DK743	DEKALB Plant Genetics	27	133.8	1	200.6	6	116.4
HS 9822	HyPerformer Seed Company	28	133.5	-	-	-	-
X748	Northrup King Company	29	133.4	-	-	-	-
3394	Pioneer Hi-Bred Int'l., Inc	30	132.8	-	-	-	-

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Table 5B. Wharton, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc Grower's 4192	Mycogen Plant Sciences	31	132.0	-	-	-	-
3163	Pioneer Hi-Bred Int'l., Inc	32	131.8	13	173.9	-	-
6154	DOUGLASS W. KING CO., INC.	33	131.7	-	-	-	-
TS-777	Texas Seed Co., Inc.	34	131.7	56	139.8	31	99.8
7897	Cargill Hybrid Seeds	35	131.7	-	-	-	-
HS 9843	HyPerformer Seed Company	36	130.6	11	176.5	-	-
8327	Cargill Hybrid Seeds	37	129.5	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	38	128.9	-	-	-	-
NC+ 7507	NC+ Hybrids	39	128.9	30	164.8	3	121.8
Myc T-E 9586	Mycogen Plant Sciences	40	128.8	-	-	-	-
8427	Cargill Hybrid Seeds	41	128.6	59	137.3	28	101.6
Rx896	Asgrow Seed Company	42	128.4	10	178.8	17	106.3
Myc ORO Exp. 5309x	Mycogen Plant Sciences	43	128.2	-	-	-	-
DK715	DEKALB Plant Genetics	44	128.0	36	160.5	15	108.4
8695	Delta and Pine Land Company	45	127.3	18	169.2	-	-
Myc T-E 7065	Mycogen Plant Sciences	46	127.1	-	-	-	-
W-2170	George Warner Seed Co., Inc	47	125.9	44	154.6	-	-
N8811	Northrup King Company	48	125.4	-	-	-	-
Myc Grower's 4214	Mycogen Plant Sciences	49	124.8	-	-	-	-
Myc Grower's 4172	Mycogen Plant Sciences	50	124.8	27	165.6	11	109.9
91208Y	Tx. Agri. Exp. Stat.	51	124.6	26	166.1	-	-
Myc ORO 188	Mycogen Plant Sciences	52	124.5	7	180.6	20	104.9
4682	Delta and Pine Land Company	53	124.2	25	167.0	-	-
HS 9977	HyPerformer Seed Company	54	123.5	19	169.1	-	-
93206Y	Tx. Agri. Exp. Stat.	55	123.3	-	-	-	-
CHECK (G-4673B)	Tx. Agri. Exp. Stat.	56	122.0	41	158.4	33	97.4
5154	DOUGLASS W. KING CO., INC.	57	121.0	-	-	-	-
NC+ 7665	NC+ Hybrids	58	120.7	-	-	-	-
HB 127002(X)	HyPerformer Seed Company	59	120.7	-	-	-	-
Myc Grower's 4715	Mycogen Plant Sciences	60	120.3	-	-	38	93.1

Table 5B. Wharton, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9848	HyPerformer Seed Company	61	118.6	-	-	-	-
NC+ 7117	NC+ Hybrids	62	118.2	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	63	116.6	-	-	-	-
HS 9944	HyPerformer	64	114.6	-	-	-	-
DK 689	DEKALB Plant Genetics	-	-	2	192.9	18	150.6
3085	Pioneer Hi-Bred Int'l., Inc	-	-	5	178.1	8	113.5
NC+ 7304	NC+ Hybrids	-	-	31	164.3	27	102.0
G-4666	Delta and Pine Land Company	-	-	42	157.4	7	113.5
91204Y	Tx. Agri. Exp. Stat.	-	-	45	153.8	13	108.9
HS 9704	HyPerformer Seed Company	-	-	47	153.5	35	96.4
<u>N6873</u>	<u>Northrup King Company</u>	<u>--</u>	<u>--</u>	<u>58</u>	<u>138.6</u>	<u>26</u>	<u>102.0</u>
Number Entries:		64		60		50	
Test Mean Yield (bu/A):			131.9		163.7		100.7

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

TABLE 6. AGRONOMIC AND TEST INFORMATION: COLLEGE STATION

TEST:	1993 Irrigated Corn Performance Test
LOCATION:	Texas A&M University Research Farm, College Station, Texas
COOPERATORS:	Dennis Pietsch, Randy Gaas, Leon Synatschk, A.J. Bockholt, Frank Fojt III, and Larry Flax
SOIL TYPE:	Ships clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Disked and bedded
DATE PLANTED:	2-26-93
DATE THINNED:	4-13-93, thinned to seed company recommendations
PLOT LENGTH:	21'
FERTILIZER:	172+72+24; Applied 600 lb/A of 12-12-4 on 1-28-93. Sidedress 100 lb N/A as N-32 on 4-19-93
HERBICIDE:	3-5-93 Applied 1.25 qt/A of Dual (metolachlor) + 2 qt/A of liquid AAtrex (atrazine)
INSECTICIDE:	Applied Counter 15G at label rate at planting
RAINFALL:	February .22", March = 4.61", April = 3.86", May 7.26", June = 11.12", July = 0", August = 0." Total = 27.07"
IRRIGATIONS:	None
DATE HARVESTED:	8-18-93 with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows - 21' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	42
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	25,209 plants/A
TEST MEAN:	176.4 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	4.9 %

GENERAL INFORMATION: Forty-two hybrids were entered at this test site which is representative of conditions in the northeastern portion of Texas Crop Reporting District 8-N or the South Central Region. An optimum planting date, ample moisture, and good growing conditions were contributing factors that resulted in record yields. The season started with a full soil moisture profile from fall and winter rainfall. The test was planted on February 26, and seedling emergence was rapid. Timely rains in April, May, and June contributed to continuous plant growth and development. It is interesting to note that this site is designated as an irrigated test, but due to the large amount of rainfall received, no irrigations were applied.

Record yields were achieved this year as reflected in the following Table. The test mean yield was 176.4 bu/A compared to 170.8 bu/A in 1992. Sixteen hybrids produced over 180 bu/A. Outstanding bushel weights were also recorded from the test block. Due to the hot and dry weather conditions in July and August, a rapid "dry-down" period was experienced, thus grain moisture at harvest was low. Lodging was not observed in the test block. Disease and insect pressure was minimal.

Table 6A. CORN PERFORMANCE TEST; COLLEGE STATION, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days		Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk									
DK743	DEKALB Plant Genetics	Y	R	94		105	41	11.6	29351	100.0	57.5	195.6	A
TERRA - TR1167	Terra International, Inc.	Y	R	93		102	42	11.1	27796	100.0	57.4	188.7	A-B
HS 9843	HyPerformer Seed Company	Y	R	93		102	44	11.2	26221	100.0	58.9	187.9	A-C
TERRA - TR702E	Terra International, Inc.	Y	R	95		98	38	11.3	26655	100.0	57.3	185.7	A-D
3163	Pioneer Hi-Bred Int'l., Inc.	Y	R	94		101	40	11.2	22817	100.0	58.5	185.7	A-D
3245	Pioneer Hi-Bred Int'l., Inc.	Y	P	94		104	37	11.4	22610	100.0	60.9	184.9	A-E
G-4673B	Delta and Pine Land Company	Y	R	93		104	41	11.4	25203	100.0	59.6	184.5	A-E
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	94		104	47	11.4	24580	100.0	59.6	184.3	A-E
8695	Delta and Pine Land company	Y	R	94		102	39	11.6	24269	100.0	58.4	183.6	A-F
Myc ORO 166	Mycogen Plant Sciences	Y	R	94		104	39	11.3	26344	100.0	59.0	183.2	A-G
Myc ORO 188	Mycogen Plant Sciences	Y	R	95		100	39	11.7	26240	100.0	60.4	183.2	A-G
TERRA - E1168	Terra International, Inc.	Y	R	94		104	41	11.4	28729	100.0	58.1	182.2	A-G
TERRA - TR700E	Terra International, Inc.	Y	R	94		106	46	11.5	25514	100.0	58.5	182.1	A-G
DK715	DEKALB Plant Genetics	Y	R	91		102	38	11.0	27899	100.0	55.9	181.9	A-G
Myc T-E 9586	Mycogen Plant Sciences	Y	R	94		107	43	11.6	24684	100.0	59.0	180.9	A-G
4682	Delta and Pine Land Company	Y	R	94		100	40	10.9	24580	100.0	55.8	180.9	A-G
Rx919	Asgrow Seed Company	Y	W	94		108	45	11.6	25514	100.0	59.7	179.1	B-H
Myc Grower's 4214	Mycogen Plant Sciences	Y	R	94		102	42	11.3	27070	100.0	58.9	178.1	B-H
HS 9905	HyPerformer Seed Company	Y	R	93		99	36	11.7	26966	100.0	60.7	177.9	B-H
HS 9848	HyPerformer Seed Company	Y	R	94		103	40	11.4	27277	100.0	59.2	177.7	B-H
Rx896	Asgrow Seed Company	Y	R	94		103	42	11.3	24788	100.0	57.6	177.6	B-H
3085	Pioneer Hi-Bred Int'l., Inc	Y	R	97		108	42	11.8	23128	100.0	60.2	177.1	B-I
7897	Cargill Hybrid Seeds	Y	R	93		107	44	11.5	24062	100.0	61.6	177.0	B-I
6154	DOUGLASS W. KING CO., INC.	Y	R	96		106	45	11.3	26551	100.0	58.8	176.3	B-I
HS 9944	HyPerformer Seed Company	Y	R	95		104	43	11.3	25825	100.0	59.1	176.2	B-I
7997	Cargill Hybrid Seeds	Y	R	90		101	37	11.0	24580	100.0	57.2	176.1	B-I
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	94		104	38	11.1	26655	100.0	59.1	175.3	B-J
N8811	Northrup King Company	Y	R	93		100	40	11.4	26240	100.0	60.9	175.0	B-J
93206Y	Tx. Agri. Exp. Stat.	Y	P	94		105	43	11.5	24995	100.0	57.0	174.1	B-K
CHECK	Tx. Agri. Exp. Stat.	Y	R	94		104	40	11.1	26032	100.0	58.0	173.9	B-K

Table 6A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days			Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches	Ear Height Inches						
HS 9977	HyPerformer Seed Company	Y	R	94	99	38	11.9	25306	100.0	60.9	173.0	C-K
3156	Pioneer Hi-Bred Int'l., Inc.	Y	R	93	100	40	11.3	22091	100.0	58.8	171.6	D-K
5154	DOUGLASS W. KING CO., INC.	Y	R	94	100	43	11.6	25329	100.0	57.1	170.0	E-L
Myc T-E X-9341	Mycogen Plant Sciences	Y	R	96	104	45	11.7	25629	100.0	60.0	169.7	E-L
8327	Cargill Hybrid Seeds	Y	R	93	101	42	11.1	25410	100.0	58.5	168.5	F-L
3167	Pioneer Hi-Bred Int'l., Inc	Y	R	95	102	40	11.9	21365	100.0	60.2	168.3	G-L
93204Y	Tx. Agri. Exp. Stat.	Y	W	95	101	40	11.5	24373	100.0	57.9	164.5	H-L
F-3038	Frontier Hybrids, Inc.	Y	R	91	96	37	11.3	26551	100.0	59.6	162.5	I-L
8427	Cargill Hybrid Seeds	Y	R	91	97	34	11.7	24580	100.0	59.8	161.4	J-L
3394	Pioneer Hi-Bred Int'l., Inc.	Y	R	90	99	39	11.0	22402	100.0	56.7	160.0	K-L
91208Y	Tx. Agri. Exp. Stat.	Y	P	94	103	42	11.4	23647	100.0	58.8	159.9	K-L
CHECK	Tx. Agri. Exp. Stat.	*	*	90	97	38	11.5	25618	100.0	60.7	155.7	L

TEST MEAN = 176.4 TEST C.V. = 4.9 LSD .05 = 12.1

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

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

* NC+ 7117 and MO17 x B73 were entered as check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

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

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DK743	DEKALB Plant Genetics	1	195.6	-	-	-	-
TERRA-TR1167	Terra International, Inc.	2	188.7	-	-	-	-
HS 9843	HyPerformer Seed Company	3	187.9	8	179.7	-	-
TERRA-TR702E	Terra International, Inc.	4	185.7	-	-	-	-
3163	Pioneer Hi-Bred Int'l., Inc	5	185.7	9	179.6	-	-
3245	Pioneer Hi-Bred Int'l., Inc	6	184.9	7	181.0	8	171.7
G-4673B	Delta and Pine Land Company	7	184.5	30	165.8	27	148.5
Myc Grower's 4172	Mycogen Plant Sciences	8	184.3	4	186.7	11	170.1
8695	Delta and Pine Land Company	9	183.6	-	-	-	-
Myc ORO 166	Mycogen Plant Sciences	10	183.2	19	172.5	-	-
Myc ORO 188	Mycogen Plant Sciences	11	183.2	-	-	-	-
TERRA-E1168	Terra International, Inc.	12	182.2	-	-	-	-
TERRA-TR700E	Terra International, Inc.	13	182.1	1	196.7	-	-
DK715	DEKALB Plant Genetics	14	181.9	-	-	-	-
Myc T-E 9586	Mycogen Plant Sciences	15	180.9	3	187.6	23	153.1
4682	Delta and Pine Land Company	16	180.9	17	172.7	-	-
Rx919	Asgrow Seed Company	17	179.1	-	-	-	-
Myc Grower's 4214	Mycogen Plant Sciences	18	178.1	-	-	-	-
HS 9905	HyPerformer Seed Company	19	177.9	20	171.4	-	-
HS 9848	HyPerformer Seed Company	20	177.7	-	-	-	-
Rx896	Asgrow Seed Company	21	177.6	-	-	-	-
3085	Pioneer Hi-Bred Int'l., Inc	22	177.1	5	184.7	2	186.7
7897	Cargill Hybrid Seeds	23	177.0	-	-	-	-
6154	DOUGLASS W. KING CO., INC.	24	176.3	6	184.7	1	189.3
HS 9944	HyPerformer Seed Company	25	176.2	-	-	-	-
7997	Cargill Hybrid Seeds	26	176.1	14	175.0	17	164.3
Myc Grower's 4202	Mycogen Plant Sciences	27	175.3	-	-	-	-
N8811	Northrup King Company	28	175.0	-	-	-	-
93206Y	Tx. Agri. Exp. Stat.	29	174.1	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	30	173.9	-	-	-	-

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

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9977	HyPerformer Seed Company	31	173.0	-	-	-	-
3156	Pioneer Hi-Bred Int'l., Inc	32	171.6	-	-	-	-
5154	DOUGLASS W. KING CO., INC.	33	170.0	-	-	-	-
Myc T-E X-9341	Mycogen Plant Sciences	34	169.7	-	-	-	-
8327	Cargill Hybrid Seeds	35	168.5	-	-	-	-
3167	Pioneer Hi-Bred Int'l., Inc	36	168.3	-	-	-	-
93204Y	Tx. Agri. Exp. Stat.	37	164.5	-	-	-	-
F-3038	Frontier Hybrid Seeds	38	162.5	-	-	-	-
8427	Cargill Hybrid Seeds	39	161.4	36	156.4	-	-
3394	Pioneer Hi-Bred Int'l., Inc	40	160.0	35	157.4	-	-
91208Y	Tx. Agri. Exp. Stat.	41	159.9	24	169.6	-	-
CHECK	Tx. Agri. Exp. Stat.	42	155.7	-	-	-	-
Myc ORO 188	Mycogen Plant Sciences	-	-	2	193.2	6	178.1
91204Y	Tx. Agri. Exp. Stat.	-	-	18	172.6	31	139.5
G-4666	Delta and Pine Land Company	-	-	23	170.6	12	168.3
91202Y	Tx. Agri. Exp. Stat.	-	-	28	167.1	24	150.3
NC+ 7304	NC+ Hybrids	-	-	32	163.1	15	164.9
Number Entries:		42		40		35	
Test Mean Yield (bu/A):			176.4		170.8		159.9

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

TABLE 7.

AGRONOMIC AND TEST INFORMATION: THRALL

TEST:	1993 Dryland Corn Performance Test
LOCATION:	Stiles Farm Foundation, Thrall, Texas
COOPERATORS:	Cloyce Coffman, Dennis Pietsch, Randy Gaas, Leon Synatschk, and Calvin Rinn
SOIL TYPE:	Burleson clay
ROW WIDTH:	38"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Shredded, bedded, re-bedded, sprayed Bladex at label rate for winter weed control
DATE PLANTED:	2-24-93, hand dropped behind a JD 7300 Max-Emerge 2 planter
DATE THINNED:	4-1-93, thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	120+20+0: Applied 3-5-93, shanked in both side of row
HERBICIDE:	Applied broadcast tank mix of 1 qt/A of Atrazine 4L + 1 qt/A of Prowl 4L at spike stage
INSECTICIDE:	6.5 lb/A of Counter 15G (terbufos) in-furrow at planting
RAINFALL:	Due to a malfunctioning weather station located on the Stiles Farm, rainfall was not recorded. It was estimated that above average rainfall fell during the fall and winter months but no rain in July and August.
IRRIGATIONS:	None
DATE HARVESTED:	8-5&6-93 with MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows - 25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	50
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	21,231 plants/A
TEST MEAN:	144.0 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	6.0%

GENERAL INFORMATION: Favorable growing conditions throughout the growing season resulted in outstanding yields at this Southern Blackland test site in Texas. The season started with abundant soil moisture from fall and winter rains. An optimum planting date was secured. Excellent plant stands were attained after thinning. Due to timely rains, the test block did not suffer moisture stress until very late grain fill, thus resulting in continuous plant growth and development.

The test mean yield was 144.1 bu/A with 11 hybrids producing over 150 bu/A. Excellent bushel weights were recorded as reflected in the following Table. Due to very hot and dry weather conditions in July and early-August, dry-down was rapid and moisture at harvest was very low. The incidence of lodging was very low.

Table 7A. CORN PERFORMANCE TEST; THRALL, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc ORO Exp. 5351x	Mycogen Plant Sciences	Y	R	90	103	42	11.4	23179	100.0	56.6	162.9	A
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	92	102	40	11.2	22560	100.0	56.8	158.0	A-B
7997	Cargill Hybrid Seeds	Y	R	88	99	38	11.0	21459	100.0	55.4	156.5	A-C
3163	Pioneer Hi-Bred Int'l., Inc	Y	R	92	101	42	11.3	18571	99.6	56.0	155.7	A-C
F-3200	Frontier Hybrids, Inc.	Y	R	91	99	39	11.2	24623	100.0	56.0	155.5	A-C
Myc T-E 7070	Mycogen Plant Sciences	Y	R	92	104	38	11.3	23041	100.0	58.6	155.4	A-C
8327	Cargill Hybrid Seeds	Y	R	92	99	39	11.3	22560	100.0	56.4	154.0	A-C
DK743	DEKALB Plant Genetics	Y	P	91	105	37	13.3	22422	100.0	56.3	153.1	A-D
F-3100	Frontier Hybrids, Inc.	Y	R	92	98	38	11.4	24211	100.0	58.2	152.2	A-E
HS 9843	HyPerformer Seed Company	Y	R	91	99	38	11.2	23385	100.0	56.9	151.4	A-E
NC+ 6959	NC+ Hybrids	Y	R	92	100	41	11.1	21528	100.0	56.4	151.1	A-E
FILL	Tx. Agri. Exp. Stat.	*	*	93	99	41	12.2	22078	100.0	56.4	149.6	A-F
3245	Pioneer Hi-Bred Int'l., Inc	Y	R	91	104	36	11.3	18571	100.0	59.8	149.1	A-F
5114	DOUGLAS W. KING CO., INC.	Y	R	92	96	39	11.3	21872	100.0	58.1	149.1	A-F
Myc ORO 188	Mycogen Plant Sciences	Y	R	93	97	39	12.1	22147	100.0	57.1	148.9	A-F
N8811	Northrup King Company	Y	R	92	98	36	11.9	21734	100.0	59.9	148.9	A-F
DK683	DEKALB Plant Genetics	Y	R	92	100	40	11.7	23179	100.0	56.2	148.7	A-F
Rx897	Asgrow Seed Company	Y	R	92	101	43	11.4	23110	100.0	58.3	148.7	A-F
Myc T-E X-9348	Mycogen Plant Sciences	Y	R	90	104	44	11.5	22285	100.0	58.1	147.8	B-G
8315	ICI Seeds	Y	R	93	99	41	11.3	20290	100.0	56.9	147.6	B-G
Rx919	Asgrow Seed Company	Y	R	92	106	42	11.7	22904	100.0	59.0	147.3	B-H
Myc ORO 166	Mycogen Plant Sciences	Y	R	92	104	35	11.1	20978	100.0	56.8	146.4	B-H
CHECK	Tx. Agri. Exp. Stat.	Y	R	88	95	34	12.0	21459	100.0	58.0	145.5	B-I
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	93	99	41	11.7	21734	99.4	56.4	145.2	B-I
8427	Cargill Hybrid Seeds	Y	R	88	95	35	11.8	20496	100.0	58.8	145.0	B-I
HS 9848	HyPerformer Seed Company	Y	R	91	95	39	11.1	22697	100.0	58.0	144.5	B-I
NC+ 7117	NC+ Hybrids	Y	R	92	96	38	11.1	22491	100.0	55.7	144.3	B-I
X1132R	Pioneer Hi-Bred Int'l., Inc	Y	R	93	103	34	11.2	18983	100.0	57.6	144.3	B-I
NC+ 7507	NC+ Hybrids	Y	R	93	98	42	11.3	22078	99.7	57.3	143.7	B-J
7897	Cargill Hybrid Seeds	Y	R	91	104	39	11.5	21391	100.0	56.8	143.5	B-J

Table 7A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
3156	Pioneer Hi-Bred Int'l., Inc.	Y	R	91	104	40	11.4	18295	100.0	57.7	143.1	B-J
8281X	ICI Seeds	Y	R	91	97	39	11.1	22354	100.0	56.2	142.7	B-J
8695	Delta and Pine Land Company	Y	R	92	97	39	12.0	19946	100.0	56.3	142.4	C-J
NC+ 5037	NC+ Hybrids	Y	R	91	94	38	10.8	21528	100.0	54.8	142.4	C-J
W-2170	George Warner Seed Co., Inc	Y	R	91	97	41	11.3	21666	100.0	56.9	142.0	C-J
G-4673B	Delta and Pine Land Company	Y	R	91	98	37	11.3	19877	99.7	58.2	141.8	C-J
Myc T-E 9586	Mycogen Plant Sciences	Y	R	92	99	40	12.1	21322	100.0	56.8	141.2	C-J
Myc Grower's 4214	Mycogen Plant Sciences	Y	R	92	98	39	11.1	21941	100.0	56.9	138.2	D-J
Myc T-E 7065	Mycogen Plant Sciences	Y	R	92	96	39	11.2	21459	100.0	57.7	137.9	D-J
HS 9944	HyPerformer Seed Company	Y	R	93	103	41	11.5	23179	100.0	56.8	137.5	E-J
91208Y	Tx. Agri. Exp. Stat.	Y	P	93	103	42	11.4	20840	100.0	56.4	136.9	E-J
3346	Pioneer Hi-Bred Int'l., Inc	Y	P	88	97	38	10.9	17470	100.0	58.3	135.6	F-J
Myc ORO 142	Mycogen Plant Sciences	Y	R	92	96	38	11.3	21184	100.0	55.6	133.3	G-K
92218Y	Tx. Agri. Exp. Stat.	Y	P	93	98	39	11.4	20909	100.0	55.7	132.7	G-K
CHECK	Tx. Agri. Exp. Stat.	Y	R	92	95	39	11.2	21666	100.0	57.4	132.3	H-K
3394	Pioneer Hi-Bred Int'l., Inc	Y	R	88	97	36	10.7	18158	100.0	55.6	130.7	I-K
X1132N	Pioneer Hi-Bred Int'l., Inc	Y	R	88	97	37	11.2	17883	99.2	56.4	130.4	I-K
3317	Pioneer Hi-Bred Int'l., Inc	Y	R	90	97	37	10.8	17745	99.6	55.2	128.7	J-K
4682	Delta and Pine Land Company	Y	R	94	97	37	11.1	19877	100.0	55.7	119.4	K-L
93204Y	Tx. Agri. Exp. Stat.	Y	W	92	98	36	11.2	16163	100.0	56.2	114.5	L
TEST MEAN= 144.1 TEST C.V.= 5.9 LSD .05= 12.0												

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

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

* Texas Seed TS777 and Asgrow Rx899 were entered as a commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

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

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc ORO Exp. 5351x	Mycogen Plant Sciences	1	162.9	-	-	-	-
Myc Grower's 4202	Mycogen Plant Sciences	2	158.0	-	-	-	-
7997	Cargill Hybrid Seeds	3	156.5	16	155.7	14	170.8
3163	Pioneer Hi-Bred Int'l., Inc	4	155.7	6	162.7	-	-
F-3200	Frontier Hybrids, Inc.	5	155.5	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	6	155.4	-	-	-	-
8327	Cargill Hybrid Seeds	7	154.0	-	-	-	-
DK743	DEKALB Plant Genetics	8	153.1	8	161.6	1	192.9
F-3100	Frontier Hybrids, Inc.	9	152.2	23	152.9	-	-
HS 9843	HyPerformer Seed Company	10	151.4	5	165.6	-	-
NC+ 6959	NC+ Hybrids	11	151.1	-	-	-	-
FILL	Tx. Agri. Exp. Stat.	12	149.6	-	-	-	-
3245	Pioneer Hi-Bred Int'l., Inc	13	149.1	21	154.1	2	191.4
5114	DOUGLASS W. KING CO., INC.	14	149.1	-	-	-	-
Myc ORO 188	Mycogen Plant Sciences	15	148.9	1	168.5	8	176.5
N8811	Northrup King Company	16	148.9	-	-	-	-
DK683	DEKALB Plant Genetics	17	148.7	-	-	-	-
Rx897	Asgrow Seed Company	18	148.7	2	167.3	-	-
Myc T-E X-9348	Mycogen Plant Sciences	19	147.8	-	-	-	-
8315	ICI Seeds	20	147.6	-	-	-	-
Rx919	Asgrow Seed Company	21	147.3	-	-	-	-
Myc ORO 166	Mycogen Plant Sciences	22	146.4	-	-	-	-
CHECK (Rx 899)	Tx. Agri. Exp. Stat.	23	145.5	12	159.6	15	170.5
Myc Grower's 4172	Mycogen Plant Sciences	24	145.2	30	151.1	12	173.3
8427	Cargill Hybrid Seeds	25	145.0	34	143.4	-	-
HS 9848	HyPerformer Seed Company	26	144.5	-	-	-	-
NC+ 7117	NC+ Hybrids	27	144.3	-	-	-	-
X1132R	Pioneer Hi-Bred Int'l., Inc	28	144.3	-	-	-	-
NC+ 7507	NC+ Hybrids	29	143.7	-	-	-	-
7897	Cargill Hybrid Seeds	30	143.5	-	-	-	-

Table 7B. Thrall, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3156	Pioneer Hi-Bred Int'l., Inc	31	143.1	13	159.1	-	-
8281X	ICI Seeds	32	142.7	-	-	-	-
8695	Delta and Pine Land Company	33	142.4	-	-	-	-
NC+ 5037	NC+ Hybrids	34	142.4	-	-	-	-
W-2170	George Warner Seed Co., Inc	35	142.0	-	-	-	-
G-4673B	Delta and Pine Land Company	36	141.8	38	139.1	10	173.6
Myc T-E 9586	Mycogen Plant Sciences	37	141.2	3	166.9	-	-
Myc Grower's 4214	Mycogen Plant Sciences	38	138.2	-	-	-	-
Myc T-E 7065	Mycogen Plant Sciences	39	137.9	-	-	-	-
HS 9944	HyPerformer Seed Company	40	137.5	-	-	-	-
91208Y	Tx. Agri. Exp. Stat.	41	136.9	-	-	-	-
3346	Pioneer Hi-Bred Int'l., Inc	42	135.6	-	-	-	-
Myc ORO 142	Mycogen Plant Sciences	43	133.3	-	-	-	-
92218Y	Tx. Agri. Exp. Stat.	44	132.7	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	45	132.3	-	-	-	-
3394	Pioneer Hi-Bred Int'l., Inc	46	130.7	31	150.0	-	-
X1132N	Pioneer Hi-Bred Int'l., Inc	47	130.4	-	-	-	-
3317	Pioneer Hi-Bred Int'l., Inc	48	128.7	-	-	-	-
4682	Delta and Pine Land Company	49	119.4	35	140.2	-	-
93204Y	Tx. Agri. Exp. Stat.	50	114.5	-	-	-	-
3170	Pioneer Hi-Bred Int'l., Inc	-	-	10	160.5	3	187.1
DK 689	DEKALB Plant Genetics	-	-	14	157.9	19	167.2
ICI/Garst 8315	ICI Seeds	-	-	15	157.2	9	176.0
HS 9911	HyPerformer Seed Company	-	-	24	152.9	18	167.4
G-4666	Delta and Pine Land Company	-	-	25	151.7	25	162.7
DK 715	DEKALB Plant Genetics	--	--	32	148.0	13	172.5

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

TABLE 8. AGRONOMIC AND TEST INFORMATION: BARDWELL

TEST:	1993 Dryland Corn Performance Test
LOCATION:	Bob Beakley Farm, Bardwell, Texas
COOPERATORS:	Bob Beakley, Dennis Pietsch, A.J. Bockholt, Randy Gaas, Leon Synatschk, and Gary Stanford
SOIL TYPE:	Houston black clay
ROW WIDTH:	36"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked in winter of '92, minimum tillage
DATE PLANTED:	3-8-93; hand dropped through a JD 7100 Max-Emerge 2 planter
DATE THINNED:	4-27&28-93; thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	74+34+0; Applied 100 lb/A of 10-34-0 at planting, 200 lb/A of 32-0-0 sidedress
HERBICIDE:	Applied 1.5 lb/A of AAtrex (atrazine) at planting
INSECTICIDE:	5.0 lb/A Counter (terbufos) at planting on 18" band
RAINFALL:	Excessive rainfall in fall of '92 to planting March=4.0"; April=5.00"; May=2.0"; June= 0.0"; Total=11.0"
DATE HARVESTED:	8-9-93 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	46
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	16,988 plants/A
TEST MEAN:	76.8 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	12.8 percent

GENERAL INFORMATION: Conditions were not favorable for maximum corn production in this area. The season started with ample soil moisture from fall and winter rains. A near-optimum planting date was secured but prolonged periods of cold and wet weather after planting retarded seedling emergence. The test block suffered a light freeze which affected final plant stands in some plots. Plant growth and development was limited by short supply of N and also slowed by very heavy rains in March and April. Good growing conditions soon followed, but hot and dry weather persisted from early-May to late-June resulting in severe plant stress. The test block did receive approximately 7" of rain in late June which helped alleviate plant stress but was too late to affect final yields.

The test mean yield was 76.8 bu/A compared to the past three year average of 118.5 bu/A. Only three hybrids produced over 90 bu/A. Number of days to obtain 50% silk were relatively late due to the unfavorable weather conditions experienced in the growing season. Grain moisture at harvest was low due to rapid dry down caused by the hot and dry conditions in July and August.

Table 8A. CORN PERFORMANCE TEST; BARDWELL, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
CHECK	Tx. Agri. Exp. Stat.	Y	R	97	71	26	12.9	17932	100.0	55.4	99.2	A
3163	Pioneer Hi-Bred Int'l., Inc.	Y	R	95	76	28	11.7	14738	100.0	58.1	92.1	A-B
NC+ 6959	NC+ Hybrids	Y	R	96	74	27	11.5	21417	99.7	58.7	90.4	A-C
DK743	DEKALB Plant Genetics	Y	R	95	69	26	14.6	17569	100.0	55.1	89.1	A-D
HS 9843	HyPerformer Seed Co.	Y	R	94	75	27	11.5	19747	100.0	57.6	88.5	A-E
DK683	DEKALB Plant Genetics	Y	R	96	75	26	12.1	18731	100.0	55.8	88.1	A-E
9239x	DOUGLASS W. KING CO., INC.	Y	R	99	74	27	12.3	20618	99.3	58.1	87.2	A-F
X1132R	Pioneer Hi-Bred Int'l., Inc.	Y	R	95	74	24	11.2	16262	100.0	58.8	86.1	A-G
Rx919	Asgrow Seed Company	Y	R	97	74	26	11.5	20328	100.0	57.8	85.8	A-H
8327	Cargill Hybrid Seeds	Y	R	97	77	28	11.4	19965	100.0	56.6	83.1	A-I
G-4673B	Delta and Pine Land Company	Y	R	95	74	26	12.0	18731	100.0	58.1	78.9	B-J
Myc ORO 188	Mycogen Plant Sciences	Y	R	96	74	30	12.5	18223	99.2	54.9	78.8	B-J
8695	Delta and Pine Land Company	Y	R	96	76	30	12.9	16625	99.1	55.2	78.8	B-J
3245	Pioneer Hi-Bred Int'l., Inc.	Y	P	95	73	25	11.5	15536	100.0	60.3	78.5	B-J
3394	Pioneer Hi-Bred Int'l., Inc.	Y	R	91	71	26	11.4	16408	100.0	58.1	78.3	B-J
4682	Delta and Pine Land Company	Y	R	97	76	31	11.3	16771	100.0	55.0	78.3	B-J
CHECK	Tx. Agri. Exp. Stat.	Y	R	97	68	28	11.8	16916	100.0	56.6	78.2	B-J
9223x	DOUGLASS W. KING CO., INC.	Y	P	94	76	32	11.7	19965	100.0	59.3	78.1	B-J
7897	Cargill Hybrid Seeds	Y	R	96	78	30	11.9	17351	99.2	56.9	78.1	B-J
7997	Cargill Hybrid Seeds	Y	R	93	74	27	10.9	19820	100.0	56.8	77.8	B-J
Myc T-E 7070	Mycogen Plant Sciences	Y	R	96	77	23	10.8	18731	100.0	55.8	77.3	B-J
Rx897	Asgrow Seed Company	Y	R	95	77	28	11.5	18150	100.0	56.2	77.1	B-J
Rx951W	Asgrow Seed Company	W	W	99	81	29	13.0	17497	100.0	59.1	77.0	B-J
N8811	Northrup King Company	Y	R	95	71	28	12.5	15391	99.5	59.1	76.0	B-J
CHECK	Tx. Agri. Exp. Stat.	Y	R	97	75	29	13.3	17497	99.6	55.1	75.3	B-J
3156	Pioneer Hi-Bred Int'l., Inc.	Y	R	94	80	28	12.3	11689	100.0	59.2	75.2	B-J
X1132N	Pioneer Hi-Bred Int'l., Inc.	Y	R	90	74	25	11.9	15609	100.0	55.9	75.0	B-J
F-3200	Frontier Hybrids, Inc.	Y	R	95	76	29	11.4	17787	100.0	56.1	74.7	B-J
Myc T-E 9586	Mycogen Plant Sciences	Y	R	94	77	31	13.6	13287	100.0	55.8	74.4	C-J
W-2170	George Warner Seed Co., Inc	Y	R	95	79	30	11.4	14302	100.0	57.0	74.3	C-J

Table 8A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
NC+ 7507	NC+ Hybrids	Y	R	96	76	31	11.2	13721	100.0	56.6	73.8	C-J
N6330	Northrup King Company	Y	R	92	67	25	11.4	16553	100.0	57.2	73.4	C-J
HS 9944	HyPerformer Seed Company	Y	R	96	77	27	11.9	16262	99.6	55.6	72.8	D-J
8427	Cargill Hybrid Seeds	Y	R	92	69	22	12.0	21054	100.0	59.1	72.4	D-J
5114	DOUGLASS W. KING CO., INC.	Y	R	96	75	30	11.0	15827	100.0	56.6	71.6	D-J
93202Y	Tx. Agri. Exp. Stat.	Y	P	95	82	30	11.8	14423	99.3	57.7	71.2	E-J
HS 9848	HyPerformer Seed Company	Y	R	96	76	26	11.4	14230	96.9	56.3	69.7	F-J
NC+ 7117	NC+ Hybrids	Y	R	96	71	25	10.7	18440	100.0	55.4	69.5	G-J
3346	Pioneer Hi-Bred Int'l., Inc.	Y	P	92	69	30	11.4	14423	100.0	57.6	69.1	G-K
Myc T-E 7065	Mycogen Plant Sciences	Y	R	95	76	27	11.0	15682	100.0	56.3	68.8	G-K
3317	Pioneer Hi-Bred Int'l., Inc.	Y	R	92	70	30	11.6	14883	100.0	56.4	68.2	H-K
NC+ 5037	NC+ Hybrids	Y	R	95	75	27	11.4	13649	99.5	55.6	68.2	H-K
92218Y	Tx. Agri. Exp. Stat.	Y	P	97	76	28	12.0	19941	100.0	55.1	66.7	I-K
Myc ORO 142	Mycogen Plant Sciences	Y	R	97	76	28	10.9	17642	100.0	56.4	64.5	J-K
9224x	DOUGLASS W. KING CO., INC.	Y	R	94	77	28	12.0	19312	100.0	60.3	63.4	J-K
91208Y	Tx. Agri. Exp. Stat.	Y	P	96	81	32	11.6	11326	100.0	56.7	53.1	K

TEST MEAN= 76.8 TEST C.V= 12.8 LSD .05= 13.9

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

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

* Pioneer 3165, DK-689, and Myc Growers 4172 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: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Table 8B. Three-year summary, Corn Performance Test, Bardwell, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
CHECK (3165)	Tx. Agri. Exp. Stat.	1	99.2	-	-	14	152.0
3163	Pioneer Hi-Bred Int'l., Inc.	2	92.1	5	154.5	-	-
NC+ 6959	NC+ Hybrids	3	90.4	16	147.8	-	-
DK743	DEKALB Plant Genetics	4	89.1	12	150.9	13	153.7
HS 9843	HyPerformer Seed Company	5	88.5	7	153.6	-	-
DK683	DEKALB Plant Genetics	6	88.1	-	-	-	-
9239x	DOUGLASS W. KING CO., INC.	7	87.2	-	-	-	-
X1132R	Pioneer Hi-Bred Int'l., Inc	8	86.1	-	-	-	-
Rx919	Asgrow Seed Company	9	85.8	-	-	-	-
8327	Cargill Hybrid Seeds	10	83.1	-	-	-	-
G-4673B	Delta and Pine Land Company	11	78.9	43	129.0	11	155.0
Myc ORO 188	Mycogen Plant Sciences	12	78.8	-	-	-	-
8695	Delta and Pine Land Company	13	78.8	17	147.4	-	-
3245	Pioneer Hi-Bred Int'l., Inc	14	78.5	1	163.1	6	-
3394	Pioneer Hi-Bred Int'l., Inc	15	78.3	40	133.1	-	-
4682	Delta and Pine Land Company	16	78.3	-	-	-	-
CHECK (DK689)	Tx. Agri. Exp. Stat.	17	78.2	10	151.3	36	138.5
9223x	DOUGLASS W. KING CO., INC.	18	78.1	-	-	-	-
7897	Cargill Hybrid Seeds	19	78.1	-	-	-	-
7997	Cargill Hybrid Seeds	20	77.8	11	151.1	1	164.4
Myc T-E 7070	Mycogen Plant Sciences	21	77.3	-	-	-	-
Rx897	Asgrow Seed Company	22	77.1	-	-	-	-
Rx951W	Asgrow Seed Company	23	77.0	-	-	-	-
N8811	Northrup King Company	24	76.0	-	-	-	-
CHECK (Grower's 4172)	Tx. Agri. Exp. Stat.	25	75.3	15	147.9	23	145.6
3156	Pioneer Hi-Bred Int'l., Inc	26	75.2	18	145.6	-	-
X1132N	Pioneer Hi-Bred Int'l., Inc	27	75.0	-	-	-	-
F-3200	Frontier Hybrids, Inc.	28	74.7	-	-	-	-
Myc T-E 9586	Mycogen Plant Sciences	29	74.4	2	157.4	15	157.2
W-2170	George Warner Seed Co., Inc	30	74.3	-	-	-	-

Table 8B. Bardwell, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 7507	NC+ Hybrids	31	73.8	14	149.0	--	--
N6330	Northrup King Company	32	73.4	36	135.1	--	--
HS 9944	HyPerformer Seed Company	33	72.8	--	--	--	--
8427	Cargill Hybrid Seeds	34	72.4	30	138.7	--	--
5114	DOUGLASS W. KING CO., INC.	35	71.6	--	--	--	--
93202Y	Tx. Agri. Exp. Stat.	36	71.2	--	--	--	--
HS 9848	HyPerformer Seed Company	37	69.7	--	--	--	--
NC+ 7117	NC+ Hybrids	38	69.5	--	--	--	--
3346	Pioneer Hi-Bred Int'l., Inc	39	69.1	--	--	--	--
Myc T-E 7065	Mycogen Plant Sciences	40	68.8	--	--	--	--
3317	Pioneer Hi-Bred Int'l., Inc	41	68.2	--	--	--	--
NC+ 5037	NC+ Hybrids	42	68.2	--	--	--	--
92218Y	Tx. Agri. Exp. Stat.	43	66.7	--	--	--	--
Myc ORO 142	Mycogen Plant Sciences	44	64.5	--	--	--	--
9224x	DOUGLASS W. KING CO., INC.	45	63.4	--	--	--	--
91208Y	Tx. Agri. Exp. Stat.	46	53.1	--	--	--	--
3170	Pioneer Hi-Bred Int'l., Inc	--	--	4	155.8	10	155.0
Myc ORO 188	Mycogen Plant Sciences	--	--	9	152.4	2	164.1
NC+ 7304	NC+ Hybrids	--	--	21	143.8	12	154.7
HS 9704	HyPerformer Seed Company	--	--	22	143.5	21	147.2
Rx 899	Asgrow Seed Company	--	--	32	141.6	3	161.2
Myc Grower's 4192	Mycogen Plant Sciences	--	--	26	139.9	32	140.5
91202Y	Tx. Agri. Exp. Stat.	--	--	28	138.8	19	147.5
92216Y	Tx. Agri. Exp. Stat.	--	--	35	136.8	41	133.0
NC+ 5963	NC+ Hybrids	--	--	42	130.6	38	134.1
G-4666	Delta and Pine Land Company	--	--	46	125.8	35	134.1
Number Entries:		46		46		42	
Test Mean Yield (bu/A):			76.8		142.8		47.0

TABLE 9.

AGRONOMIC AND TEST INFORMATION: McKINNEY

TEST:	1993 Dryland Corn Performance Test
LOCATION:	Jerry Davis Farm
COOPERATORS:	Jerry Davis, Kenneth White, Dennis Pietsch, Leon Synatschk, and Cloyce Coffman
SOIL TYPE:	Houston black clay
ROW WIDTH:	30"
PREVIOUS CROP:	Soybeans
LAND PREPARATION:	Disked, field cultivated
DATE PLANTED:	3-16-93, hand-dropped through a JD Max-Emerge planter
DATE THINNED:	5-5-93, thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	138+34+0 + 1 lb/A of Zn at planting
HERBICIDE:	1 lb/A of Atrazine Pre-Plant. 1/2 pt/A Banvel + .66 oz/A of Accent on 5-8-93
INSECTICIDE:	3 lb/A Counter 20CR at planting
RAINFALL:	March=2.48", April=3.98", May = 1.63"; June = 3.36"; July = 0.0"; August = 0.0"; Total = 11.45"
IRRIGATIONS:	None
DATE HARVESTED:	8-8-93 with MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	52
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	20,543 plants/A
TEST MEAN:	84.1 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	13.4 percent

GENERAL INFORMATION: This test site is located in a major corn production area of Texas and is representative of conditions in the Northern Blacklands. In 1993 it is estimated that 430,000 acres of corn were harvested in this area which accounts for 22.6% of Texas' harvested corn acreage. Although conditions were not favorable for maximum corn production, good yields were still attained at this site. Due to wet soil conditions from prolonged rainfall, the test was planted on March 16, which was approximately 2 weeks later than the optimum planting date. Cool and wet conditions after planting hampered seedling emergence and early plant growth. The test block was sprayed with a combination of Banvel + Accent to control field bindweed and johnsongrass. Excellent control was obtained.

Due to early season cool temperatures and a period of moisture stress during the tassel-silk stage, potential yields were reduced. The test mean yield was 84.1 bu/A compared to the past 3-year average of 114.0 bu/A . Lodging and broken plants were observed in the block but the incidence was low.

Table 9A. CORN PERFORMANCE TEST; MCKINNEY, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days		Plant Height Inches	Ear Height Inches	Mois- ture %	Plant		Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches				Pop. Per Acre	% Erect Plants			
7897	Cargill Hybrid Seeds	Y	R	90	81	28	12.6	22913	98.9	57.2	106.4	A	
TERRA - TR1167	Terra International, Inc.	Y	R	92	83	29	12.8	23087	98.5	53.6	105.1	A-B	
X1132R	Pioneer Hi-Bred Int'l., Inc.	Y	R	92	85	25	12.3	20038	100.0	57.6	102.8	A-C	
HS 9843	HyPerformer Seed Company	Y	R	93	83	32	13.8	19863	99.6	53.9	101.7	A-D	
7997	Cargill Hybrid Seeds	Y	R	88	79	25	11.7	23000	97.3	56.1	100.7	A-E	
3346	Pioneer Hi-Bred Int'l., Inc.	Y	P	89	73	28	12.3	20735	93.7	57.2	99.4	A-F	
8427	Cargill Hybrid Seeds	Y	R	87	73	26	12.7	21257	99.6	57.2	97.3	A-G	
X1132N	Pioneer Hi-Bred Int'l., Inc.	Y	R	86	75	27	12.8	17163	98.5	56.3	95.1	A-H	
3394	Pioneer Hi-Bred Int'l., Inc.	Y	R	89	75	27	12.0	19863	99.6	56.2	92.9	A-I	
HS 9848	HyPerformer Seed Company	Y	R	92	75	27	12.9	22477	96.3	55.3	92.0	A-I	
8327	Cargill Hybrid Seeds	Y	R	92	82	30	13.0	22738	96.2	54.0	91.7	A-I	
DK683	DEKALB Plant Genetics	Y	R	93	81	32	13.2	22477	96.1	54.7	91.0	A-J	
Myc T-E 9586	Mycogen Plant Sciences	Y	R	92	77	30	13.5	22913	99.6	57.1	91.0	A-J	
TERRA - TR641E	Terra International, Inc.	Y	R	88	67	23	12.3	21344	95.5	54.2	90.4	A-J	
Myc ORO 188	Mycogen Plant Sciences	Y	R	92	76	30	12.9	22913	95.8	50.7	90.1	A-J	
HS 9944	HyPerformer Seed Company	Y	R	94	82	28	12.1	22041	97.2	54.1	90.1	A-J	
Myc Grower's 4172	Mycogen Plant Sciences	Y	R	93	76	29	13.2	19515	92.9	53.9	88.8	A-J	
NC+ 6959	NC+ Hybrids	Y	R	93	76	25	13.3	22913	99.2	53.0	88.3	A-J	
HS 9822	HyPerformer Seed Company	Y	R	92	85	28	12.7	20299	99.6	54.1	86.6	B-K	
Rx897	Asgrow Seed Company	Y	R	93	80	29	12.9	22564	99.2	53.4	86.6	B-K	
3317	Pioneer Hi-Bred Int'l., Inc.	Y	R	90	73	25	12.1	19341	99.5	54.9	86.5	B-K	
NC+ 5037	NC+ Hybrids	Y	R	91	74	23	12.3	21954	99.2	55.5	86.3	B-K	
Rx919	Asgrow Seed Company	Y	R	93	82	27	12.9	19689	97.3	56.2	85.9	B-K	
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	92	82	24	12.6	20647	97.3	54.4	85.6	B-K	
HS 9905	HyPerformer Seed Company	Y	R	91	71	24	13.4	20560	95.3	56.1	85.6	B-K	
W-2170	George Warner Seed Co., Inc	Y	R	91	75	28	12.9	19515	98.7	55.1	84.4	C-K	
DK743	DEKALB Plant Genetics	Y	R	93	80	23	12.9	21344	96.7	53.9	84.1	C-K	
3245	Pioneer Hi-Bred Int'l., Inc.	Y	P	91	78	23	12.4	19428	100.0	58.5	83.7	C-K	
HS 9911	HyPerformer Seed Company	Y	R	91	77	32	12.7	20299	97.9	56.3	83.4	C-K	
CHECK	Tx. Agri. Exp. Stat.	*	*	90	79	24	13.5	19863	93.0	56.0	82.1	D-K	

Table 9A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
TERRA - TR702E	Terra International, Inc.	Y	R	93	71	25	14.7	20996	97.1	53.4	81.0	E-L
HS 9977	HyPerformer Seed Company	Y	R	92	80	26	12.6	20125	98.3	56.6	80.7	E-L
HS 9502	HyPerformer Seed Company	Y	R	91	77	23	12.3	20647	99.6	55.1	80.2	F-L
N6330	Northrup King Company	Y	R	87	68	25	11.9	19689	98.7	55.4	80.0	F-L
TERRA - TR700E	Terra International, Inc.	Y	R	93	76	27	14.0	18992	95.4	54.0	79.2	G-L
3163	Pioneer Hi-Bred Int'l., Inc	Y	R	92	76	24	12.0	18557	99.1	53.7	78.5	G-L
Myc ORO 166	Mycogen Plant Sciences	Y	R	94	78	24	12.6	24394	98.2	54.5	78.1	G-L
3156	Pioneer Hi-Bred Int'l., Inc.	Y	R	91	82	31	13.1	15943	83.6	57.2	77.4	G-L
NC+ 7507	NC+ Hybrids	Y	R	94	80	31	11.9	20038	97.4	52.9	76.6	H-L
G-4673B	Delta and Pine Land Company	Y	R	92	77	26	12.3	18818	99.1	54.8	76.3	H-L
CHECK	Tx. Agri. Exp. Stat.	*	*	95	73	26	12.0	25091	96.2	52.6	75.7	H-L
N8811	Northrup King Company	Y	R	93	77	25	12.6	19602	98.7	56.4	75.2	H-L
Myc Grower's 4214	Mycogen Plant Sciences	Y	R	93	70	26	12.6	20735	99.2	54.3	74.5	I-L
8695	Delta and Pine Land Company	Y	R	94	74	28	12.9	19079	97.3	53.6	74.1	I-L
HB 127002(X)	HyPerformer Seed Company	Y	R	94	74	24	12.5	19950	96.5	54.9	73.3	I-L
NC+ 7117	NC+ Hybrids	Y	R	94	77	25	12.7	19428	100.0	54.5	73.2	I-L
Myc T-E 7070	Mycogen Plant Sciences	Y	R	93	83	24	13.0	21693	98.4	53.5	73.0	I-L
TERRA -E1168	Terra International, Inc.	Y	R	92	74	24	12.3	19689	96.5	54.9	72.6	I-L
8260	ICI Seeds	Y	R	92	76	22	12.9	19689	100.0	55.9	71.9	J-L
4581	Delta and Pine Land Company	Y	R	93	78	27	12.8	19341	99.5	54.0	67.4	K-L
91208Y	Tx. Agri. Exp. Stat.	Y	P	94	80	28	13.3	15594	92.2	54.9	61.7	L
92202Y	Tx. Agri. Exp. Stat.	Y	W	96	88	32	13.6	17424	99.5	54.8	61.5	L

TEST MEAN= 84.1 TEST C.V.= 13.4 LSD .05= 15.9

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

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

* Texas Seed TS777 and ICI 8315 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

Table 9A. (CONTINUED)

** Grain color designated by respective seed companies: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Table 9B. Three-year summary, Corn Performance Test, McKinney, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
7897	Cargill Hybrid Seeds	1	106.4	-	-	-	-
TERRA-TR1167	Terra International, Inc.	2	105.1	5	132.9	-	-
X1132R	Pioneer Hi-Bred Int'l., Inc	3	102.8	-	-	-	-
HS 9843	HyPerformer Seed Company	4	101.7	1	144.8	-	-
7997	Cargill Hybrid Seeds	5	100.7	3	140.0	3	183.9
3346	Pioneer Hi-Bred Int'l., Inc	6	99.4	-	-	-	-
8427	Cargill Hybrid Seeds	7	97.3	4	134.9	-	-
X1132N	Pioneer Hi-Bred Int'l., Inc	8	95.1	-	-	-	-
3394	Pioneer Hi-Bred Int'l., Inc	9	92.9	32	114.0	-	-
HS 9848	HyPerformer Seed Company	10	92.0	-	-	-	-
8327	Cargill Hybrid Seeds	11	91.7	-	-	-	-
DK683	DEKALB Plant Genetics	12	91.0	-	-	-	-
Myc T-E 9586	Mycogen Plant Sciences	13	91.0	6	132.0	27	149.7
TERRA-TR641E	Terra International, Inc.	14	90.4	10	128.9	-	-
Myc ORO 188	Mycogen Plant Sciences	15	90.1	12	126.1	25	149.8
HS 9944	HyPerformer Seed Company	16	90.1	-	-	-	-
Myc Grower's 4172	Mycogen Plant Sciences	17	88.8	25	119.2	15	155.3
NC+ 6959	NC+ Hybrids	18	88.3	-	-	-	-
HS 9822	HyPerformer Seed Company	19	86.6	-	-	-	-
Rx897	Asgrow Seed Company	20	86.6	17	124.0	-	-
3317	Pioneer Hi-Bred Int'l., Inc	21	86.5	-	-	-	-
NC+ 5037	NC+ Hybrids	22	86.3	-	-	-	-
Rx919	Asgrow Seed Company	23	85.9	-	-	-	-
Myc Grower's 4202	Mycogen Plant Sciences	24	85.6	-	-	-	-
HS 9902	HyPerformer Seed Company	25	85.6	-	-	-	-
W-2170	George Warner Seed Co., Inc	26	84.4	-	-	-	-
DK743	DEKALB Plant Genetics	27	84.1	2	141.1	7	162.1
3245	Pioneer Hi-Bred Int'l., Inc	28	83.7	26	118.3	1	190.5
HS 9911	HyPerformer Seed Company	29	83.4	-	-	31	141.2
CHECK (3165)	Tx. Agri. Exp. Stat.	30	82.1	18	123.0	30	141.5

Table 9B. McKinney, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
TERRA-TR702E	Terra International, Inc.	31	81.0	-	-	-	-
HS 9977	HyPerformer Seed Company	32	80.7	-	-	-	-
HS 9502	HyPerformer Seed Company	33	80.2	-	-	-	-
N6330	Northrup King Company	34	80.0	-	-	-	-
TERRA-TR700E	Terra International, Inc.	35	79.2	7	131.7	-	-
3163	Pioneer Hi-Bred Int'l., Inc	36	78.5	8	131.0	-	-
Myc ORO 166	Mycogen Plant Sciences	37	78.1	-	-	-	-
3156	Pioneer Hi-Bred Int'l., Inc	38	77.4	9	129.8	-	-
NC+ 7507	NC+ Hybrids	39	76.6	-	-	-	-
G-4673B	Delta and Pine Land Company	40	76.3	19	122.7	13	160.2
CHECK (TS-777)	Tx. Agri. Exp. Stat.	41	75.7	20	122.5	29	145.0
N8811	Northrup King Company	42	75.2	-	-	-	-
Myc Grower's 4214	Mycogen Plant Sciences	43	74.5	-	-	-	-
8695	Delta and Pine Land Company	44	74.1	-	-	-	-
HB 127002(X)	HyPerformer Seed Company	45	73.3	-	-	-	-
NC+ 7117	NC+ Hybrids	46	73.2	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	47	73.0	-	-	-	-
TERRA-E1168	Terra International, Inc.	48	72.6	-	-	-	-
8260	ICI Seeds	49	71.9	-	-	-	-
4581	Delta and Pine Land Company	50	67.4	35	110.4	-	-
91208Y	Tx. Agri. Exp. Stat.	51	61.7	34	111.1	-	-
92202Y	Tx. Agri. Exp. Stat.	52	61.5	-	-	-	-
HS 9704	HyPerformer Seed Company	-	-	11	126.6	12	160.4
Rx 899	Asgrow Seed Company	-	-	14	125.0	14	158.0
3170	Pioneer Hi-Bred Int'l., Inc	-	-	21	121.7	10	161.1
G-4513	Delta and Pine Land Company	-	-	36	110.1	16	155.1
Number Entries:		52		40		32	
Test Mean Yield (bu/A):			84.1		122.0		157.5

TABLE 10.

AGRONOMIC AND TEST INFORMATION: DUMAS

TEST:	1993 Irrigated Corn Performance Test
LOCATION:	Dale Coleman Farm - Dumas, Texas
COOPERATORS:	Dale Coleman, Harold Grall, Dennis Pietsch, Randy Gaas, Leon Synatschk, Robert Harris, A. J. Bockholt
SOIL TYPE:	Sherman silty clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Chiseled (2), disked
DATE PLANTED:	4-22-93; by hand through JD Max Emerge planter
DATE THINNED:	5-19-93; thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	306+51+0; 267 lb/A of N applied as Anhydrous Ammonia, preplant; applied 150 lb/A of 10-34-0, 50 lb/A of 32-0-0, and 25 lb/A of 28-0-0 through center pivot throughout growing season
HERBICIDE:	Banded 4 lb/A of Dual 25G at planting; applied by ground rig .38 oz/A Beacon, and .5 pt/A of Banvel, 2 pt/A Prowl during growing season
INSECTICIDE:	Applied 1 lb/A of Lorsban through center pivot at post-tassel stage.
RAINFALL:	2.8" during growing season
IRRIGATIONS:	17.53" were applied through center pivot
DATE HARVESTED:	9-29-93, with plot combine
SIZE HARVESTED PLOT:	2 rows, 25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	72
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	30,109 plants/A
TEST MEAN:	192.6 bu/A, yields corrected to 15.5% moisture
TEST C. V.:	7.5 percent

GENERAL INFORMATION: This site was the largest of nine corn performance test in Texas and is representative of conditions in the Northern High Plains. It is estimated that farmers harvested 820,000 acres of corn in this region (Texas Crop Reporting District 1-N) which accounts for 43.2 percent of Texas' 1.9 million acres.

Conditions were not favorable for maximum corn production at this site. The test block received less than 3" of rainfall during the growing season thus requiring additional irrigations to be applied. Hot and dry conditions particularly during the tassel-silk stage probably reduced potential yields.

The test block was planted by hand-dropping seed through a JD MaxEmerge planter. Plant stands attained after thinning were excellent, with the mean plant population being 30,109 plants per acre.

The test mean yield was 192.6 bu/A compared to the past 3-year average of 196.0 bu/A. Twenty-seven hybrids produced over 200 bu/A. Moisture at harvest was relatively high and contributed to the low test weights. Lodging and broken plants were observed and are presented in the following Table under the heading "% ERECT PLANTS."

Appreciation is expressed to Asgrow Seed Company, Plainview, Texas, for providing a plot combine to harvest the test. Just prior to harvest, number plants, and number erect plants were counted from all replications. Silk notes were recorded by Norman Wuthrich, Research Associate, Texas A&M University Research and Extension Center, Halfway, Texas.

Table 10A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1993

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height In.	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Wt. lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
9111x	DOUGLASS W. KING CO., INC.	Y	R	86	101	46	25.2	31363	93.6	54.0	215.0	A
4581	Delta and Pine Land Company	Y	R	84	99	41	24.5	28575	97.0	54.9	215.0	A-B
W-2170	George Warner Seed Co., Inc	Y	R	85	99	45	22.9	32757	91.5	54.5	214.4	A-C
CHECK	Tx. Agri. Exp. Stat.	Y	R	86	108	41	25.9	27704	92.1	53.0	213.3	A-D
CHECK	Tx. Agri. Exp. Stat.	Y	R	85	100	45	24.3	28314	98.2	53.0	213.2	A-D
TERRA-TR1167	Terra International, Inc.	Y	R	86	102	47	25.2	29534	94.7	54.7	213.2	A-D
Rx899	Asgrow Seed Company	Y	R	85	96	41	23.5	28924	98.8	55.2	213.1	A-D
Myc Grower's 4214	Mycogen Plant Sciences	Y	R	87	101	47	24.3	31712	97.3	54.6	212.3	A-E
8327	Cargill Hybrid Seeds	Y	R	84	100	48	24.4	29447	71.9	53.4	212.1	A-F
HB 127002 (X)	HyPerformer Seed Company	Y	R	86	101	43	23.4	28117	96.6	54.2	211.6	A-G
AP 674	AgriPro Seeds	Y	R	86	104	50	24.7	31973	92.6	52.6	210.7	A-H
HS 9822	HyPerformer Seed Company	Y	R	86	104	45	25.2	27966	99.7	53.9	210.7	A-H
F-3200	Frontier Hybrids, Inc.	Y	R	85	100	46	25.2	32409	93.5	52.7	210.1	A-I
2010	TRIUMPH SEED COMPANY, INC.	Y	R	85	102	46	26.2	31712	94.8	52.5	210.1	A-I
92119x	DOUGLASS W. KING CO., INC.	Y	R	84	99	42	24.6	30579	97.7	55.0	209.6	A-J
DK657	DEKALB Plant Genetics	Y	R	85	101	42	22.5	33280	97.4	54.2	209.2	A-K
Myc T-E 7065	Mycogen Plant Sciences	Y	R	84	98	42	26.4	31712	94.8	54.6	207.1	A-K
HS 9502	HyPerformer Seed Company	Y	R	85	97	40	21.2	31973	96.5	55.4	205.9	A-L
Rx896	Asgrow Seed Company	Y	R	84	103	47	25.2	31102	91.9	53.7	205.5	A-L
Myc ORO Exp. 5360x	Mycogen Plant Sciences	Y	R	85	99	44	21.0	29882	95.9	54.7	204.7	A-L
3394	Pioneer Hi-Bred Int'l., Inc	Y	R	87	91	36	17.5	27356	96.8	56.8	203.9	A-L
HS 9848	HyPerformer Seed Company	Y	R	84	99	44	25.1	28750	96.4	54.3	202.7	A-M
4662	Delta and Pine Land Company	Y	R	86	102	47	22.3	29011	86.5	55.1	202.2	A-M
Myc Grower's 4202	Mycogen Plant Sciences	Y	R	86	99	44	25.0	31102	96.1	53.3	201.4	A-M
TERRA - E1168	Terra International, Inc.	Y	R	86	97	41	24.2	30753	97.7	53.6	200.6	A-N
G-4673B	Delta and Pine Land Company	Y	R	86	99	43	23.9	29185	92.2	54.0	200.3	A-N
3245	Pioneer Hi-Bred Int'l., Inc	Y	P	85	102	36	21.2	30056	96.8	57.4	200.1	A-N
7997	Cargill Hybrid Seeds	Y	R	86	99	39	21.1	29621	96.5	55.8	199.7	A-N
WxC-171	George Warner Seed Co., Inc	Y	R	86	93	42	21.5	31537	97.2	55.2	198.3	A-O
Myc T-E 7070	Mycogen Plant Sciences	Y	R	86	104	46	25.3	34500	97.0	52.8	196.4	A-P

Table 10A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Ht. In.	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Wt. lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc ORO 166	Mycogen Plant Sciences	Y	R	86	104	45	24.7	31102	94.7	53.4	195.2	A-P
3162	Pioneer Hi-Bred Int'l., Inc	Y	P	85	97	38	24.2	28575	98.2	56.0	194.0	A-Q
X1182M	Pioneer Hi-Bred Int'l., Inc	Y	R	85	98	40	20.6	28924	97.6	56.8	193.8	A-Q
TERRA - TR702E	Terra International., Inc.	Y	R	85	101	45	28.2	31537	97.0	54.4	193.6	A-Q
3346	Pioneer Hi-Bred Int'l., Inc	Y	P	86	95	38	20.0	31799	98.4	55.2	192.8	A-Q
HS 9905	HyPerformer Seed Company	Y	R	86	95	36	25.6	29011	95.8	54.7	191.7	A-Q
F-3040	Frontier Hybrids, Inc.	Y	R	85	98	44	22.9	30840	93.2	53.0	191.3	A-R
Myc T-E 6951	Mycogen Plant Sciences	Y	R	85	98	42	21.8	31189	93.0	56.3	191.3	A-R
Myc ORO 142	Mycogen Plant Sciences	Y	R	86	100	41	26.0	28227	95.4	54.6	190.9	A-R
DK652	DEKALB Plant Genetics	Y	R	86	96	34	24.3	30579	97.4	52.4	190.5	A-R
DK646	DEKALB Plant Genetics	Y	R	86	102	39	21.5	29708	97.7	53.8	189.2	B-R
Rx743	Asgrow Seed Company	Y	R	86	99	39	21.8	28924	97.6	54.7	189.2	C-R
HS 9843	HyPerformer Seed Company	Y	R	84	103	46	25.9	27617	98.7	54.2	188.6	D-R
DK743	DEKALB Plant Genetics	Y	P	85	102	41	23.4	30492	95.4	52.1	188.1	D-R
HS 9977	HyPerformer Seed Company	Y	R	86	99	41	26.8	28314	98.5	53.4	188.1	D-R
Myc Grower's 4161	Mycogen Plant Sciences	Y	R	85	99	41	21.8	31450	93.1	53.6	188.0	D-R
N8811	Northrup King Company	Y	R	87	98	41	26.8	30231	94.8	54.3	187.6	D-R
Myc 7220	Mycogen Plant Sciences	Y	R	86	98	43	22.7	33454	93.8	54.2	186.7	E-R
X1182T	Pioneer Hi-Bred Int'l., Inc	Y	R	85	98	42	22.8	28314	96.6	53.4	186.5	F-R
7897	Cargill Hybrid Seeds	Y	R	86	101	46	23.5	30579	94.3	55.6	185.9	G-R
3163	Pioneer Hi-Bred Int'l., Inc	Y	R	86	97	39	25.5	31189	96.4	51.5	185.1	H-R
8427	Cargill Hybrid Seeds	Y	R	86	95	38	23.9	30144	95.4	54.8	184.9	I-R
N7816	Northrup King Company	Y	R	84	95	43	23.5	30318	93.4	53.2	183.9	J-S
93212Y	Tx. Agri. Exp. Stat.	Y	P	86	102	43	22.7	30056	89.9	52.9	183.2	K-S
F-3038	Frontier Hybrids, Inc.	Y	R	87	92	41	21.5	29621	96.2	53.9	181.4	L-S
CHECK	Tx. Agri. Exp. Stat.	Y	R	86	98	43	24.5	28053	89.4	55.5	181.0	L-S
9223x	DOUGLASS W. KING CO., INC.	Y	R	84	104	52	21.2	29011	93.4	56.1	178.0	M-S
Myc Grower's 4715	Mycogen Plant Sciences	Y	R	85	104	45	26.8	28401	97.9	55.6	177.3	N-S
TERRA - TR641E	Terra International, Inc.	Y	R	86	95	40	20.1	29272	96.7	56.2	175.4	O-S
HS 9610	HyPerformer Seed Company	Y	R	84	95	35	22.0	26310	94.0	54.1	173.8	P-S

Table 10A. (CONTINUED)

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days To 50% Silk	Plant Height Inches	Ear Height Inches	Mois- ture %	Plant Pop. Per Acre	% Erect Plants	Test Wt. lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
Myc Grower's 4192	Mycogen Plant Sciences	Y	R	84	97	40	21.6	31712	92.6	54.8	173.7	P-S
93214Y	Tx. Agri. Exp. Stat.	Y	P	86	98	42	20.9	30231	90.2	52.4	173.4	P-S
TERRA - TR700E	Terra International, Inc.	Y	R	85	101	50	26.2	26833	87.3	52.2	173.2	P-S
9261x	DOUGLASS W. KING CO., INC.	Y	R	87	102	46	24.4	28575	95.7	53.5	172.0	P-S
Myc ORO 188	Mycogen Plant Sciences	Y	R	85	99	46	26.0	30492	92.0	52.5	171.8	P-S
Myc ORO 190	Mycogen Plant Sciences	Y	R	84	98	40	21.4	30928	92.1	54.9	171.6	P-S
9254x	DOUGLASS W. KING CO., INC.	Y	R	85	99	52	26.4	30056	95.4	53.7	171.6	P-S
9292x	DOUGLASS W. KING CO., INC.	Y	R	87	107	46	30.1	33890	94.3	53.7	168.9	Q-S
9224x	DOUGLASS W. KING CO., INC.	Y	R	86	100	39	23.9	30840	89.5	54.2	168.7	Q-S
GC 16703	Germain's Inc.	Y	R	86	98	48	18.0	32496	58.4	56.3	168.4	Q-S
HS 9944	HyPerformer Seed Company	Y	R	85	99	51	26.1	27530	95.9	52.4	165.8	R-S
91208Y	Tx. Agri. Exp. Stat.	Y	P	87	105	55	25.9	29882	94.2	52.2	159.1	S

Test Mean = 192.6 Test C. V. = 7.5 LSD .05 = 20.05

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

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

* DeKalb DK-743, NC+ 6959, and dk 5114 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: Y=Yellow W=White.

*** Cob color designated by respective seed companies: R=Red W=White P=Pink.

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

Note: Hybrids with same yields were ranked by computer.

Table 10B. Three-year summary, Corn Performance Test, Dumas, Texas.

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
9111x	DOUGLASS W. KING CO., INC.	1	215.1	-	-	-	-
4581	Delta and Pine Land Company	2	215.0	21	200.5	6	214.7
W-2170	George Warner Seed Co., Inc.	3	214.4	2	215.1	-	-
CHECK	Tx. Agri. Exp. Stat.	4	213.3	-	-	-	-
CHECK	Tx. Agri. Exp. Stat.	5	213.2	-	-	-	-
TERRA - TR1167	Terra International, Inc.	6	213.2	15	205.7	-	-
Rx899	Asgrow Seed Company	7	213.1	-	-	-	-
Myc Grower's 4214	Mycogen Plant Sciences	8	212.3	-	-	-	-
8327	Cargill Hybrid Seeds	9	212.1	-	-	-	-
HB 127002(X)	HyPerformer Seed Company	10	211.6	5	212.6	-	-
AP 674	AgriPro Seeds	11	210.7	-	-	-	-
HS 9822	HyPerformer Seed Company	12	210.7	69	173.4	-	-
F-3200	Frontier Hybrids, Inc.	13	210.1	34	190.6	-	-
2010	TRIUMPH SEED COMPANY, INC.	14	210.1	-	-	-	-
92119x	DOUGLASS W. KING CO., INC.	15	209.6	-	-	-	-
DK657	DEKALB Plant Genetics	16	208.2	-	-	-	-
Myc T-E 7065	Mycogen Plant Sciences	17	207.1	-	-	-	-
HS 9502	HyPerformer Seed Company	18	205.9	47	185.2	-	-
Rx896	Asgrow Seed Company	19	205.5	-	-	-	-
Myc ORO Exp. 5360x	Mycogen Plant Sciences	20	204.7	-	-	-	-
3394	Pioneer Hi-Bred Int'l., Inc	21	203.9	-	-	-	-
HS 9848	HyPerformer Seed Company	22	202.7	-	-	-	-
4662	Delta and Pine Land Company	23	202.2	14	206.1	-	-
Myc Grower's 4202	Mycogen Plant Sciences	24	201.4	27	196.3	3	220.6
TERRA - E1168	Terra International, Inc.	25	200.6	-	-	-	-
G-4673B	Delta and Pine Land Company	26	200.3	37	190.1	19	206.0
3245	Pioneer Hi-Bred Int'l., Inc	27	200.1	66	174.9	1	223.3
7997	Cargill Hybrid Seeds	28	199.7	52	182.6	29	201.6
WxC-171	George Warner Seed Co., Inc.	29	198.3	-	-	-	-
Myc T-E 7070	Mycogen Plant Sciences	30	196.4	-	-	-	-

Table 10B. Dumas, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc ORO 166	Mycogen Plant Sciences	31	195.2	--	--	--	--
3162	Pioneer Hi-Bred Int'l., Inc	32	194.0	6	210.6	26	202.3
X1182M	Pioneer Hi-Bred Int'l., Inc	33	193.8	--	--	--	--
TERRA - TR702E	Terra International, Inc.	34	193.6	--	--	--	--
3346	Pioneer Hi-Bred Int'l., Inc	35	192.8	--	--	--	--
HS 9905	HyPerformer Seed Company	36	191.7	40	188.2	--	--
F-3040	Frontier Hybrids, Inc.	37	191.3	12	206.5	2	222.3
Myc T-E 6951	Mycogen Plant Sciences	38	191.3	8	209.9	--	--
Myc ORO 142	Mycogen Plant Sciences	39	190.9	--	--	--	--
DK652	DEKALB Plant Genetics	40	190.5	--	--	--	--
DK646	DEKALB Plant Genetics	41	189.2	4	212.7	--	--
Rx743	Asgrow Seed Company	42	189.2	--	--	--	--
HS 9843	HyPerformer Seed Company	43	188.6	48	184.9	--	--
DK743	DEKALB Plant Genetics	44	188.1	1	221.8	--	--
HS 9977	HyPerformer Seed Company	45	188.1	30	195.4	--	--
Myc Grower's 4161	Mycogen Plant Sciences	46	188.0	36	190.2	40	196.3
N8811	Northrup King Company	47	187.6	--	--	--	--
Myc 7220	Mycogen Plant Sciences	48	186.7	--	--	--	--
X1182T	Pioneer Hi-Bred Int'l., Inc	49	186.5	--	--	--	--
7897	Cargill Hybrid Seeds	50	185.9	--	--	--	--
3163	Pioneer Hi-Bred Int'l., Inc	51	185.1	--	--	--	--
8427	Cargill Hybrid Seeds	52	184.9	--	--	--	--
N7816	Northrup King Company	53	183.9	26	196.9	21	205.2
93212Y	Tx. Agri. Exp. Stat.	54	183.2	--	--	--	--
F-3038	Frontier Hybrids, Inc.	55	181.4	25	197.7	31	201.0
CHECK	Tx. Agri. Exp. Stat.	56	181.0	--	--	--	--
9223x	DOUGLASS W. KING CO., INC.	57	178.0	--	--	--	--
Myc Grower's 4715	Mycogen Plant Sciences	58	177.3	62	177.6	35	198.0
TERRA - TR641E	Terra International, Inc.	59	175.4	32	192.2	--	--
HS 9610	HyPerformer Seed Company	60	173.8	--	--	--	--

Table 10B. Dumas, Texas (Continued).

HYBRID	COMPANY	1993		1992		1991	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Myc Grower's 4192	Mycogen Plant Sciences	61	173.7	45	186.3	32	200.6
93214Y	Tx. Agri. Exp. Stat.	62	173.4	-	-	-	-
TERRA - TR700E	Terra International, Inc.	63	173.2	-	-	-	-
9261X	DOUGLASS W. KING CO., INC.	64	172.0	-	-	-	-
Myc ORO 188	Mycogen Plant Sciences	65	171.8	16	205.7	27	201.9
Myc ORO 190	Mycogen Plant Sciences	66	171.6	63	176.8	23	204.7
9254x	DOUGLASS W. KING CO., INC.	67	171.6	-	-	-	-
9292x	DOUGLASS W. KING CO., INC.	68	168.9	-	-	-	-
9224x	DOUGLASS W. KING CO., INC.	69	168.7	-	-	-	-
GC 16703	Germain's Inc.	70	168.4	-	-	-	-
HS 9944	HyPerformer Seed Company	71	165.8	-	-	-	-
91208Y	Tx. Agri. Exp. Stat.	72	159.1	10	209.4	45	193.7
91214Y	Tx. Agri. Exp. Stat.	-	-	7	210.4	48	192.6
KING'S 5114	DOUGLASS W. KING CO., INC.	-	-	9	209.9	9	211.0
NC+ 5963	NC+ Hybrids	-	-	19	202.7	8	212.3
G-4513	Delta and Pine Land Company	-	-	22	199.6	10	210.4
DK715	DEKALB Plant Genetics	-	-	23	199.4	25	203.8
Jacques 9220	Jacques Seed Company	-	-	29	195.4	20	205.3
W-2166	George Warner Seed Company	-	-	33	191.3	39	196.6
USN 328 (Exp)	Seed Source, Inc.	-	-	50	183.2	62	175.5
Myc Grower's 4195	Mycogen Plant Sciences	-	-	53	182.6	11	209.7
N6330	Northrup King Company	-	-	56	180.2	24	204.2
KING'S 9103-X	DOUGLASS W. KING CO., INC.	-	-	67	173.9	57	186.1
Myc ORO Exp. 1006	Mycogen Plant Sciences	--	--	70	170.6	7	213.0
Number Entries:		72		81		64	
Test Mean Yield (bu/A):			192.6		188.0		199.1

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

SUPPLEMENT

This section contains results from supplementary corn tests conducted at Halfway, Texas. Although tests are not official performance test sites evaluated under project 1418, results may be used as necessary to determine the adaptability of hybrids in this area.

**TABLE S1. AGRONOMIC AND TEST INFORMATION: HALFWAY, TEXAS
Supplementary Corn Test**

TITLE:	Corn grain hybrid performance test at the Texas Agricultural Experiment Station, Halfway, Texas, 1993.	
AUTHORS:	N.E. Wuthrich, D.T. Rosenow, G.C. Peterson, respectively Research Associate, Professor, Assistant Professor	
METHODS & MATERIALS:	Experimental Design:	Randomized complete block with three reps
	Plot Size:	13.3 ft (4 beds x 30 ft.)
	Row Spacing:	Single row on 40-inch spaced beds
	Soil Type:	Pullman clay loam
	Previous Crop:	Cotton
	Fertilizer:	229+0+0+70(Ca); Applied as liquid NCal-23
	Herbicide:	1.3 lbs ai/A Atrazine, 1.8 lbs ai/A Lasso, .75 lbs ai/A Prowl plus .5 lbs ai/A Lasso at layby
	Insecticide:	1.2 lbs ai/A Counter 15G
	Irrigations:	Preplant plus 3.8, 2.3, 2.3, 2.7, 2.9, 1.8, 2.6, 2.8 acre in/A applied on May 28 June 7, 14, 18, July 6, 12, 26, and August 11
	Planting Date:	April 13
	Plant Population:	See Table S2
	Harvest Date:	September 21

RESULTS & DISCUSSION:

Table S2 contains all the agronomic data recorded in 1993. The test mean was 9,729 lb/A. Yields were good considering this year's growing conditions. Plots were hand-thinned for uniform spacing and population after emergence. Total plant population was counted and recorded as plants per acre before harvest.

The high incidence of lodging was attributed to restricted use of pesticides by air before entomologists cleared the emergency use of acceptable pesticides. Plots were not sprayed due to the delay of a control schedule.

Late season heat stress, mite and corn borer infestations, and total ears harvested due to lodging limited higher yields.

Plots were harvested with a 4-row combine equipped with a weight meter and a corn saver unit. Grain yields were adjusted to 15.5% moisture after harvest.

Table S2. Grain yield and other agronomic data for 40 corn grain hybrids evaluated for grain production at the Texas Agricultural Experiment Station, Halfway, Texas, 1993.

Company Or Brand Name	Hybrid Designation	Yield In lb/A *	Duncan's MRT At 5% Level **	Yield In bu/A ***	Days To Silk ****	Ear Height (In)	Moisture %	Broken Plants % *****	Plant Pop. Per Acre
ICI	8272	10888	A	194.4	82.0	49.3	13.8	15.6	30883
Mycogen Plant Sciences	Myc ORO 166	10628	A-B	189.8	87.0	55.3	13.9	16.5	32954
Cargill	8327	10532	A-B	188.1	85.0	55.7	13.5	9.6	31356
Mycogen Plant Sciences	Myc ORO 120	10416	A-B	186.0	80.0	46.3	13.9	18.8	27395
Northrup King	N7816	10360	A-B	185.0	81.0	55.0	13.4	18.6	30302
Douglass W. King	King 5201	10352	A-B	184.9	85.0	57.3	13.8	8.1	33390
Mycogen Plant Sciences	Myc 4214	10184	A-B	181.9	85.0	56.7	13.6	13.1	31319
Frontier	F-3038	10171	A-B	181.6	80.0	48.7	13.7	16.4	31283
Pioneer Hi-Bred	3346	10158	A-B	181.4	76.0	48.3	12.9	19.6	31646
Frontier	F-3040	10098	A-C	180.3	83.0	54.3	13.8	20.5	31356
Triumph	2010	10060	A-C	179.6	82.0	54.3	14.3	11.2	29648
Mycogen Plant Sciences	Myc T-E 7065	10055	A-C	179.6	86.0	50.3	13.9	11.9	28304
Pioneer Hi-Bred	3162	9979	A-C	178.2	79.0	40.7	13.6	11.9	28376
Frontier	F-3200	9950	A-C	177.7	84.0	53.0	13.6	10.0	31537
Terra	TR 700E	9911	A-D	177.0	85.0	55.3	14.5	16.3	26087
Garrison & Townsend, Inc	SG-8519	9864	A-D	176.2	84.0	51.0	13.6	11.7	25506
Cargill	7997	9828	A-D	175.5	80.0	46.0	13.4	22.3	31428
Mycogen Plant Sciences	Myc 4192	9808	A-D	175.1	80.0	42.3	14.2	17.1	30302
Terra	TR1167	9800	A-D	175.0	84.0	53.0	13.8	12.1	30593
Northrup King	X748	9763	A-D	174.3	86.0	53.7	13.8	10.9	29939
Frontier	F-3100	9718	A-D	173.5	85.0	52.0	13.7	14.9	31501
Mycogen Plant Sciences	Myc T-E 7070	9670	A-D	172.7	86.0	55.3	13.6	12.6	29793
Northrup King	N6330	9654	A-D	172.4	80.0	45.3	12.7	15.0	32555
DeKalb Plant Genetics	DK 657	9623	A-D	171.8	82.0	47.3	14.4	22.6	32954
Seedco	SC119	9598	A-D	171.4	87.0	53.7	14.0	17.7	28594

Table S2. (Continued)

Company Or Brand Name	Hybrid Designation	Yield In lb/A *	Duncan's MRT At 5% Level **	Yield In bu/A ***	Days To Silk ****	Ear Height (In)	Moisture %	Broken Plants % *****	Plant Pop. Per Acre
Mycogen Plant Sciences	Myc 4161	9593	A-D	171.3	80.0	49.3	13.5	23.8	30956
Douglass W. King	King 5114	9583	A-D	171.1	85.0	52.7	13.5	11.4	28267
JCR Golden Harvest	H-2530	9581	A-D	171.1	81.0	42.7	12.5	13.3	31174
Triumph	TRX2622	9568	A-D	170.9	80.0	43.3	13.1	21.6	29212
AgriPro	AP 674	9562	A-D	170.7	83.0	57.0	13.6	14.4	26233
Mycogen Plant Sciences	Myc 4202	9444	A-D	168.6	86.0	52.7	13.7	15.2	29139
AgriPro	AP 605	9442	A-D	168.6	80.0	46.7	12.9	22.0	31574
DeKalb Plant Genetics	DK 652	9225	B-D	164.7	84.0	43.7	13.1	18.8	31501
Mycogen Plant Sciences	Myc ORO 142	9221	B-D	164.7	85.0	52.3	13.7	11.2	28631
Terra	TR 641E	9187	B-D	164.0	79.0	46.3	13.3	18.1	29466
Triumph	1452	9091	B-D	162.3	84.0	47.3	12.7	20.7	30048
Douglass W. King	King 5202	9056	B-D	161.7	85.0	51.7	13.4	12.9	30629
Garrison & Townsend, Inc	SG-8521	9037	B-D	161.4	83.0	52.0	13.3	15.9	29503
ICI	8310	8526	C-D	152.2	83.0	43.0	12.6	12.1	28812
Mycogen Plant Sciences	Myc ORO 188	8314	D	148.5	85.0	55.7	14.1	21.8	27177

TEST MEAN= 173.9 bu/A

TEST C.V.= 8.2

LSD .05= 23.1

* Adjusted to 15.5% moisture

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

*** lb/A /56=bu/A

**** Number of days from planting until first silk

***** Percent broken plants below the ear

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LITERATURE CITED

1. Texas Agricultural Facts. November 18, 1993.

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