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1992 Corn Performance Tests in Texas

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1992 CORN PERFORMANCE TESTS IN TEXAS

by

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THE TEXAS AGRICULTURAL EXPERIMENT STATION
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KEYWORDS: Texas/corn/hybrids/performance test/yield/disease/insect resistance.

1992 CORN PERFORMANCE TESTS IN TEXAS

Dennis Pietsch, A.J. Bockholt, Randy Gaas, and Frank Fojt III

INTRODUCTION

Since Texas is climatically diversified, corn continues to be one of the the major commodities planted by farmers. Factors such as price, precipitation patterns, and participation in government supported programs have contributed to fluctation of acreage over years and between growing areas of the State. This year Texas farmers harvested 1.45 million acres of corn compared to 1.50 million acres in 1991 or a 3.3% decrease. Although acreage decreased, the State yield is estimated to be 110.0 bu/A which is the same as in 1991.

Corn has been traditionally produced for feed purposes, but 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. Texas produces over 50% of the corn used for food purposes in the United States; 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 632,000 acres were harvested in these Districts which accounted for 43.6 percent of corn harvested in Texas. Approximate locations of the 1992 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.

Northern Corn Leaf Blight--a visual rating presented in Table 3A-1.

Southern Corn Leaf Blight--a visual rating presented in Table 3A-1.

Southern Corn Rust--a visual rating expressed in percent taken from three replications. Presented in Tables 3A-1 and 5A-1.

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

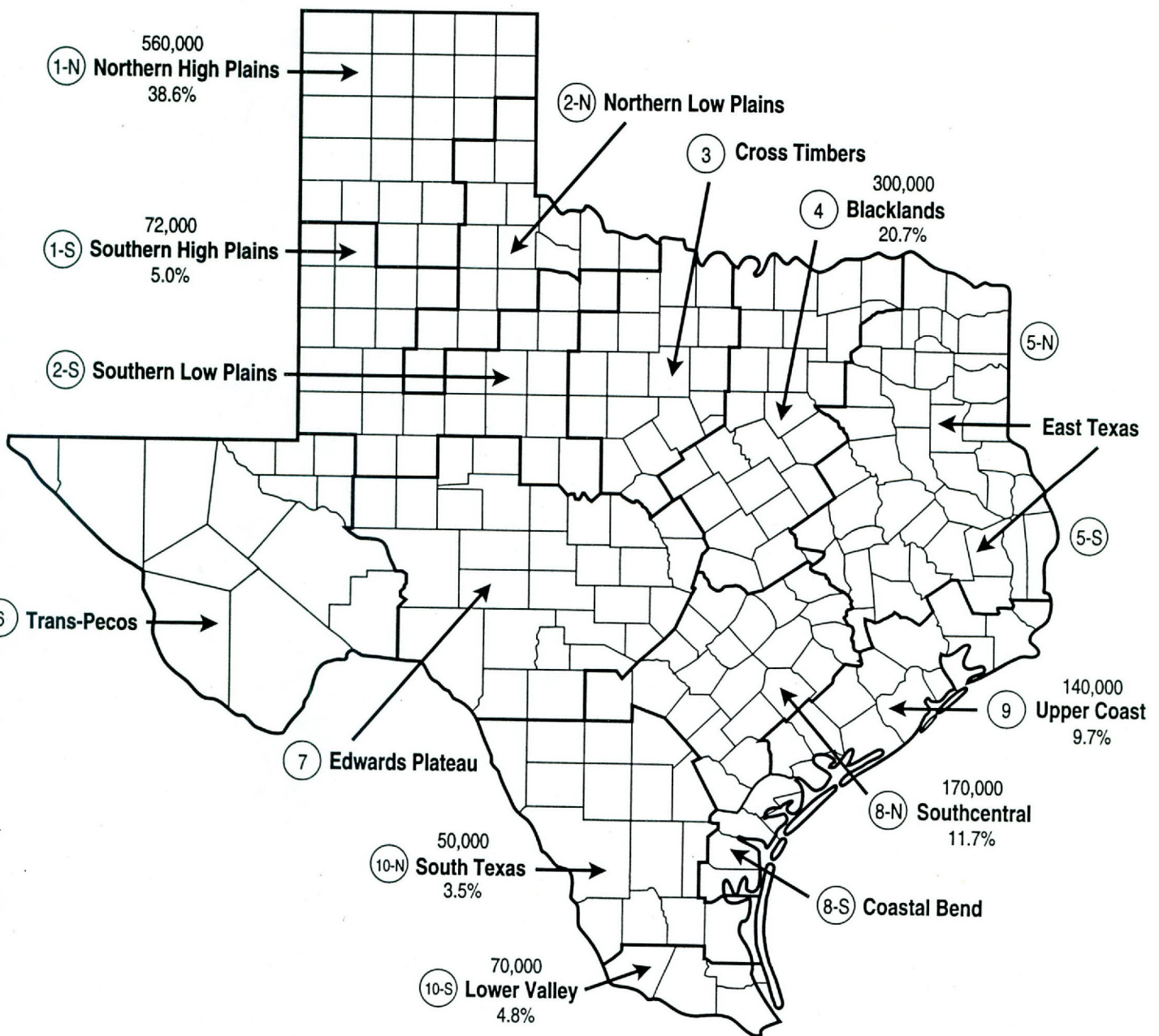
Nine performance tests were planted and harvested in 1992. The season started with a full soil moisture profile from record rainfall during the fall and winter months. Continuous rainfall at some sites resulted in extensive flooding. Due to wet soil conditions, field operations were delayed thus optimum planting dates were not achieved at a number of test sites. Although planting was delayed, good growing conditions and timely rains during the growing season resulted in outstanding yields at numerous test sites. Above average yields were recorded at Weslaco, Corpus Christi, Wharton, and College Station. Near-average yields were attained at Bardwell, Castroville, and McKinney. Due to unaccountable factors, yields at the Dumas test were considered below average. 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. Table 3A-1 gives disease ratings for hybrids entered at the Corpus Christi Test. Table 5A-1 gives Southern Corn Rust Ratings for each replication.

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. Due to severe drought conditions in 1989 and 1990, the Corpus Christi test was not harvested; therefore, Table 3B shows a two-year summary.

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, 1992 (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 88,000 acres, or 6.1 percent of state acreage (1).

Figure 2. 1992 Corn Test Locations in Texas

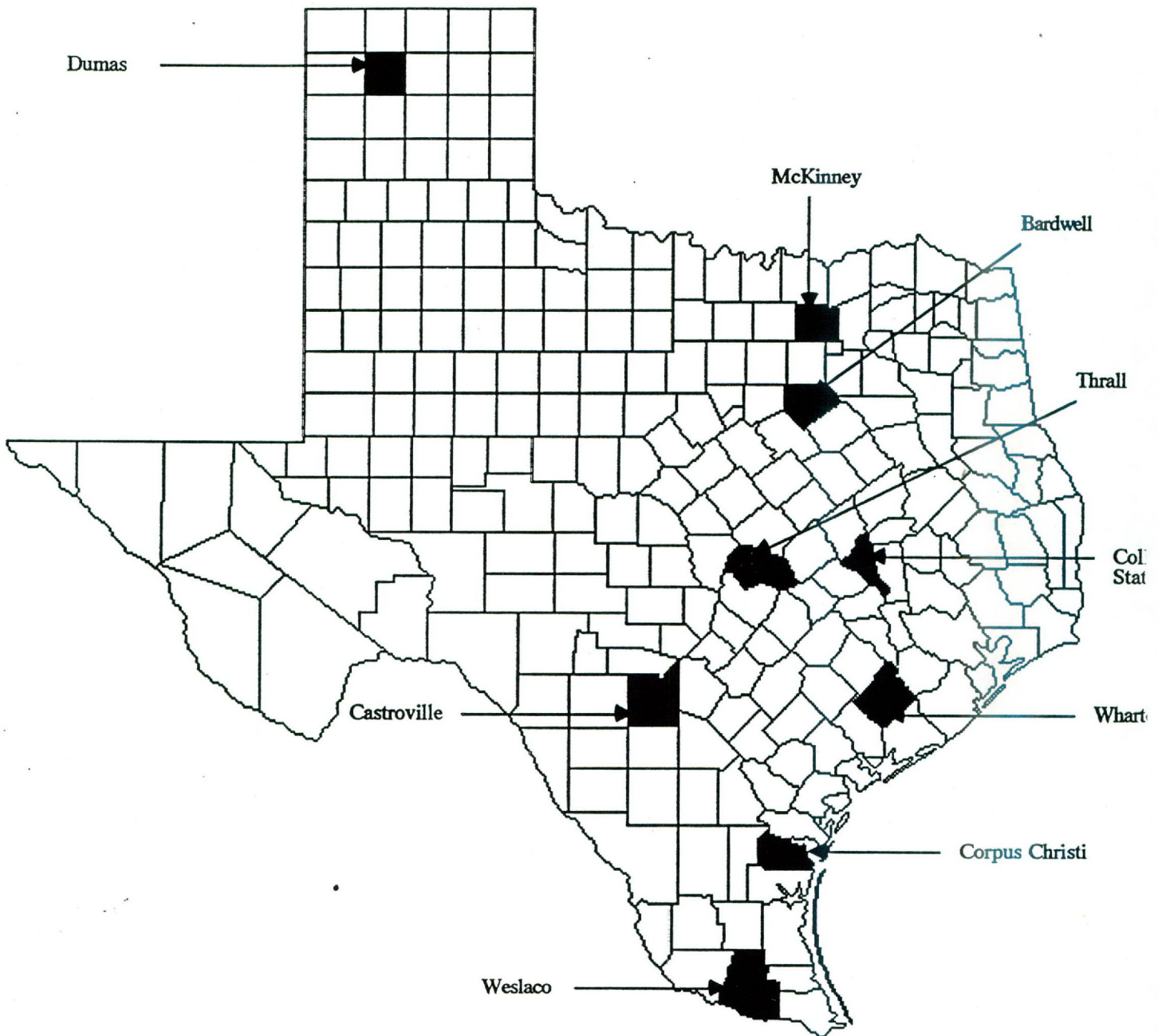


Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro-			College					
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas
GroAgri Seed Company P.O. Box 1656 Lubbock, TX 79408	GSC-4172	-	X	X	X	X	X	X	-	-
	GSC-4175	-	-	-	X	-	-	-	-	-
	GSC-4192	-	X	X	-	-	-	X	-	X
	GSC-4715	-	X	-	-	-	-	-	-	X
	GSC-4626	-	X	-	X	-	-	-	-	-
	GSC-4195	-	-	-	X	X	X	-	-	X
	GSC-4202	X	-	X	X	-	-	-	-	X
	GSC 4161	-	-	-	-	-	-	-	-	X
HyPerformer Seed Co. 6075 Poplar, Suite 500 Memphis, TN 38137	HS 9911	-	X	X	X	X	X	X	X	-
	HS 9843	X	X	X	X	X	X	X	X	X
	HS 9704	X	X	X	X	-	-	X	X	-
	HS 9822	-	-	-	-	-	-	-	-	X
	HS 9977	-	X	X	X	-	-	-	-	X
	HS 9502	-	-	-	-	-	-	-	-	X
	HS9905	-	X	X	-	X	-	-	-	X
	HB 127002	-	-	-	-	-	-	-	-	X
ICI Seeds (Garst Seed Co.) 2505 Candlewood Dr. Manhattan, KS 66502	ICI/Garst 8315	X	X	-	X	-	X	X	X	-
	ICI/Garst Sunbelt 1803	X	X	-	X	-	-	-	-	-
Jacques Seed Co. 720 St. Croix St. Prescott, WI 54021	Jacques 9220	-	-	-	-	-	-	-	-	X
	Jacques 8210	-	-	-	-	-	-	-	-	X
	Jacques 7970	-	-	-	-	-	-	-	-	X
NC+ Hybrids 3820 N. 56th St. PO Box 4408 Lincoln, NE 68504	NC+ 7507	X	X	-	X	X	-	X	-	-
	NC+ 7304	X	X	-	X	X	-	X	-	X
	NC+ 8410	X	-	-	-	-	-	-	-	-

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro- College								
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas
NC+ Hybrids (continued)	NC+ 6959	X	X	-	X	X	-	X	-	X
	NC+ 5037	-	-	-	-	-	-	-	-	X
Northrup King Company 6139 37th Lubbock, TX 79407	N 6873	-	-	-	X	-	-	-	-	-
	N 7816	-	-	-	X	X	X	X	X	X
	N 6330	-	-	-	-	-	-	X	-	X
ORO Hybrids-R.C. Young 624 27th St. Lubbock, TX 79404	ORO 188	X	X	X	X	X	X	X	X	X
	ORO 166	X	-	-	X	X	X	-	-	X
	ORO 270	-	X	X	X	-	-	X	-	-
	ORO Exp 1008X	-	-	-	-	-	-	-	-	X
	ORO 190	-	-	-	-	-	-	-	-	X
	ORO Exp 1006X	-	-	-	-	-	-	-	-	X
Pioneer Hi-Bred Int., Inc. P.O. Box 788 Plainview, TX 79072	X1612	-	X	X	X	X	X	X	X	X
	3170	-	-	-	-	-	X	X	X	-
	3394	-	X	X	X	X	X	X	X	-
	3085	-	X	X	X	X	-	-	-	-
	3245	-	X	X	X	X	X	X	X	X
	X1813	-	X	X	X	X	X	X	X	-
	3317	-	-	-	-	-	-	-	-	X
	3162	-	-	-	-	-	-	-	-	X
	X1812	-	X	X	X	X	X	X	X	-
	X1616	-	-	-	-	-	X	X	X	X
	X1811	-	X	X	X	X	X	X	X	X
	X1814	-	-	-	-	-	-	-	-	X
	3279	-	-	-	-	-	X	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
Pogue Seed Company P.O. Drawer 389 Kenedy, TX 78119	AG 4555	X	-	-	-	-	-	-	-	-
SEEDCO Corporation 103 Erskine Lubbock, TX 79403	SC-119	X	-	-	-	-	-	-	-	-
Seed Source Inc. 106 4th Street Leland, MS 38756	USN328 (X)	-	-	-	-	-	-	-	-	X
SeKo Distributing Company 2703 Highs Plains C.T. Ft. Collins, CO 80526	SeKo 1151X	X	-	-	-	-	-	-	-	-
	SeKo 1152X	X	-	-	-	-	-	-	-	-
	SeKo 1118X	X	-	-	-	-	-	-	-	-
	SeKo 1180X	X	-	-	-	-	-	-	-	-
	SeKo 1181X	X	-	-	-	-	-	-	-	-
Taylor-Evans Seed Company P.O. Box 68 Tulia, TX 79088	T-E 6951	-	-	-	-	-	-	-	-	X
	T-E 9586	X	-	X	X	X	X	X	X	-
	T-E 2908-X	-	-	-	-	-	X	X	-	X
	T-E 6996	-	X	-	-	-	-	-	-	-
	T-E 6994	-	X	-	X	-	-	-	-	-
	T-E 7081	-	-	-	X	-	-	X	X	-
	T-E 9106-X	X	-	X	X	X	X	X	-	-
	T-E 2904-X	-	-	-	-	-	-	-	-	X
	T-E 2905-X	-	-	-	-	-	-	-	-	X
	T-E 2907-X	-	-	-	-	-	-	-	-	X

Table 1. (Continued)

Company & Address	Hybrid	Corpus Castro-			College					
		Weslaco	Christi	ville	Wharton	Station	Thrall	Bardwell	McKinney	Dumas
Texas Agricultural Experiment Station	Tx Exp 91208Y	-	-	X	X	X	-	X	X	X
	Tx Exp 91210Y	-	-	-	-	-	X	X	-	-
	Tx Exp 92206Y	X	X	-	-	-	X	-	-	-
	Tx Exp 92204Y	X	-	-	-	-	-	-	-	-
	Tx Exp 90211W	-	X	-	-	-	X	-	X	-
	Tx Exp 84202Y	X	X	-	-	-	X	-	-	-
	Tx Exp 92212Y	-	-	X	-	X	-	X	-	-
	Tx Exp 91206Y	-	X	-	-	-	-	-	-	-
	Tx Exp 91204Y	X	X	X	X	X	X	-	X	-
	Tx Exp 91202Y	-	-	X	X	X	X	X	X	X
	Tx Exp 92220Y	-	-	-	X	-	-	-	-	-
	Tx Exp 92218Y	-	-	-	X	X	-	-	-	-
	Tx Exp 92216Y	-	-	-	-	X	-	X	-	-
	Tx Exp 92210Y	-	-	-	-	-	-	X	-	-
	Tx Exp 92214Y	-	-	-	X	-	-	-	-	X
	Tx Exp 92202Y	-	-	-	-	X	-	-	-	-
	CHECK	X	X	X	X	-	-	X	X	-
	CHECK	X	X	X	-	-	-	-	X	-
	CHECK	X	X	-	-	-	-	-	X	-

TABLE 2.

AGRONOMIC AND TEST INFORMATION: WESLACO

TEST:	1992 Irrigated Corn Performance Test
LOCATION:	Texas A&M University Research and Extension Center, Weslaco, Texas
COOPERATORS:	Jesus Ayala, John Drawe, Ray Castaneda, Dennis Pietsch
SOIL TYPE:	Hidalgo clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Grain Sorghum and Cotton
LAND PREPARATION:	Disked, chiseled, disked, bedded
DATE PLANTED:	2-25 & 26-92
DATE THINNED:	3-25-92, thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	200-0-0; applied 80 lb N of liquid 32-0-0 on 2-17-92, and sidedress 120 lb N of liquid 32-0-0 on 3-30-92.
HERBICIDE:	1.5 pt/A Atrazine + 1 pt/A Roundup on 2-27-92
INSECTICIDE:	None
RAINFALL:	February = 0.05"; March = 0.15"; April = 4.16"; May = 7.38"; June = 1.05"; July = 0.00"; Total = 12.79"
IRRIGATIONS:	4-14, and 5-14; approx. 4"/application
DATE HARVESTED:	7-8&9-92, with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows, 30' each or 1/290.4 ACF
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	48
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP:	24,858 plants/A
TEST MEAN:	164.6 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	6.8 percent

GENERAL INFORMATION: Excellent growing conditions, optimum plant stands, and good management resulted in outstanding yields at the test site. Due to wet soil conditions, planting was delayed approximately two weeks from the optimum planting date. Seedling emergence was rapid and excellent plant stands were attained after thinning. Continuous plant growth and development resulted from a timely irrigation schedule and rainfall.

This year, a MF8 plot combine was used to harvest the test block. Two rows, 30 feet long were harvested with plot weight, test weight, and moisture calculated with electronic equipment mounted on the combine. The test mean yield was 164.6 bu/A compared to the past five year average of 128.1 bu/A. Five hybrids in the test produced over 180 bu/A. Excellent bushel weights were also achieved as shown in the following Table. The Table also indicates under the heading of "PERCENT ERECT" that broken and lodged plants were not a problem. Even though some plants may have been lodged, the combine had the ability to "pick-up" those plants and harvest the ear. The incidence of disease and insect damage was minimal.

Table 2A. CORN PERFORMANCE TEST; WESLACO, TEXAS 1992

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									
HS 9843	HyPerformer Seed Co.	Y	R	65		98	38	14.7	24539	90.8	59.0	191.6	A
TERRA - TR1167	TERRA INT., INC.	Y	R	65		96	39	14.5	25918	97.5	60.8	184.5	A-B
SeKo 1118X	SeKo Distributing Co.	Y	R	65		97	38	13.3	24902	96.8	56.6	182.7	A-C
NC+ 6959	NC+ Hybrids	Y	R	66		99	39	14.8	26572	79.2	60.2	181.8	A-D
WxC-330	GEORGE WARNER SEED CO.	Y	R	67		96	39	15.7	25337	85.7	59.1	180.7	A-E
NC+ 7507	NC+ Hybrids	Y	R	67		98	42	14.2	26209	93.4	60.1	179.9	A-F
EXP9123 (X)	DEKALB Plant Genetics	W	W	69		112	49	17.0	26499	92.6	59.4	179.9	A-F
W-2170	GEORGE WARNER SEED CO.	Y	R	67		100	40	14.4	27588	86.3	59.0	179.1	A-G
SeKo 1181X	SeKo Distributing Co.	Y	R	65		97	39	14.2	24757	91.8	58.7	178.7	A-G
CHECK	Tx. Agri. Exp. Stat.	Y	P	66		100	33	14.4	25265	98.0	60.2	177.7	A-H
7997	Cargill Hybrid Seeds	Y	R	62		98	36	13.8	25773	97.2	59.0	176.0	A-I
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	67		103	45	13.9	22796	87.6	57.7	174.9	A-I
SC-119	SEEDCO Corporation	Y	R	67		100	42	14.8	26209	80.6	59.6	174.6	A-I
T-E 9106-X	Taylor-Evans Seed Co.	Y	R	66		101	40	13.5	24103	91.3	59.1	173.9	A-J
GSC 4202	Gro Agri Seed Co.	Y	R	66		103	38	13.3	23958	90.3	57.4	173.7	A-J
4682	Delta and Pine Land Co.	Y	R	67		95	41	14.4	23305	85.7	58.9	172.8	A-J
92204Y	Tx. Agri. Exp. Stat.	Y	R	67		96	36	16.3	25265	95.7	58.3	170.3	B-K
NC+ 7304	NC+ Hybrids	Y	R	66		100	40	14.3	25555	93.2	59.3	170.0	B-K
Conlee 117-W	Conlee Seed Co., Inc.	W	W	64		99	40	22.8	23377	95.0	61.0	167.9	B-L
TERRA - TR700E	TERRA INT., INC.	Y	R	66		97	40	17.0	23159	87.5	58.4	167.7	B-L
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	Y	R	62		93	27	14.8	26426	96.4	60.3	167.7	B-L
HS 9704	HyPerformer Seed Co.	Y	R	63		93	37	14.8	24539	96.7	57.9	167.6	B-L
F-3100	Frontier Hybrids, Inc.	Y	R	67		100	41	14.0	25773	87.6	58.3	167.3	B-L
TERRA - TR1160	TERRA INT., INC.	Y	R	62		94	34	13.2	22651	96.5	56.6	165.3	B-M
NC+ 6485	NC+ Hybrids	Y	R	63		95	35	13.7	25120	99.1	59.6	164.7	C-M
T-E 9586	Taylor-Evans Seed Co.	Y	R	66		95	41	16.7	21127	69.8	58.9	163.1	D-M
D736B	DeKalb Plant Genetics	Y	R	71		111	51	15.5	23087	74.8	54.0	162.5	D-N
8427	Cargill Hybrid Seeds	Y	R	62		92	29	15.3	25700	90.7	59.0	161.2	E-N
TERRA - TR621E	TERRA INT., INC.	Y	R	63		90	31	14.8	25846	98.0	57.1	160.9	F-N
HS 9911	HyPerformer Seed Co.	Y	R	63		96	34	14.7	24321	98.5	59.4	160.4	F-N

Table 2A. CORN PERFORMANCE TEST; WESLACO, TEXAS 1992

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	65	100	40	16.7	25192	71.2	59.6	160.3	F-N
SeKo 1180X	SeKo Distributing Co.	Y	R	62	91	30	13.7	26644	99.2	58.3	160.0	G-N
NC+ 8410	NC+ Hybrids	Y	R	66	95	36	15.1	26136	97.8	56.5	159.6	G-N
CHECK	Tx. Agri. Exp. Stat.	Y	R	62	98	32	12.7	23813	95.7	57.4	159.5	G-N
PP9137 (X)	DEKALB Plant Genetics	W	R	70	108	51	17.0	25555	78.1	58.9	158.6	H-N
KING'S 6154	DOUGLASS W. KING CO., INC.	Y	R	67	101	43	14.7	24321	85.4	57.1	158.3	H-N
D717A	DEKALB Plant Genetics	Y	R	65	102	41	16.5	22216	90.2	57.8	157.7	I-N
SeKo 1151X	SeKo Distributing Seed	Y	R	62	93	29	12.6	25918	97.2	57.8	156.7	I-N
SeKo 1152X	SeKo Distributing Seed	Y	R	63	96	35	13.3	27225	96.8	59.4	154.8	J-N
FCx11850	Frontier Hybrids, Inc.	Y	W	63	91	32	13.0	25265	97.4	57.8	151.6	K-O
92206Y	Tx. Agri. Exp. Stat.	Y	R	67	105	46	17.6	24974	94.5	54.9	149.2	LO
ORO 188	ORO Hybrids-R.C. Young	Y	R	66	98	41	16.4	24757	64.8	57.5	148.9	LO
TERRA - TR641E	TERRA INT., INC.	Y	R	62	90	30	13.5	24974	98.5	57.8	147.7	M-O
AG 4555	Pogue Seed Company	Y	R	64	99	34	14.5	21199	98.3	58.5	147.3	M-O
91204Y	Tx. Agri. Exp. Stat.	Y	R	65	100	41	15.0	25410	90.6	56.9	146.1	M-P
W-2190	GEORGE WARNER SEED CO.	Y	R	62	100	35	12.8	26862	90.3	57.9	143.2	N-P
Vx11541w	Vineyard Seed Co., Inc.	W	W	66	93	35	23.7	23450	54.2	55.4	133.8	O-P
84202Y	Tx. Agri. Exp. Stat.	Y	R	67	107	49	15.8	23450	60.7	55.2	129.1	P

Test Mean = 164.6 Test C. V. = 6.8 LSD .05 = 15.6

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 3245, Gro Agri GSC 4172 and AgriPro AP675 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 2B. Three-year summary, Corn Performance Test, Weslaco, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9843	HyPerformer Seed Co.	1	191.6	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	2	184.5	-	-	-	-
SeKo 1118X	SeKo Distributing Co.	3	182.7	-	-	-	-
NC+ 6959	NC+ Hybrids	4	181.8	-	-	-	-
WxC-330	GEORGE WARNER SEED CO.	5	180.7	-	-	-	-
NC+ 7507	NC+ Hybrids	6	179.9	4	116.3	1	153.2
EXP9123 (X)	DEKALB Plant Genetics	7	179.9	-	-	-	-
W-2170	GEORGE WARNER SEED CO.	8	179.1	-	-	-	-
SeKo 1181X	SeKo Distributing Co.	9	178.7	-	-	-	-
CHECK (3245)		10	177.7	-	-	-	-
7997	Cargill Hybrids Seeds	11	176.0	-	-	-	-
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	12	174.9	14	110.9	-	-
SC-119	SEEDCO Corporation	13	174.6	-	-	11	138.6
T-E 9106-X	Taylor-Evans Seed Co.	14	173.9	-	-	-	-
GSC 4202	Gro Agri Seed Co.	15	173.7	-	-	-	-
4682	Delta and Pine Land Co.	16	172.8	-	-	-	-
92204Y	Tx. Agri. Exp. Stat.	17	170.3	-	-	-	-
NC+ 7304	NC+ Hybrids	18	170.0	-	-	-	-
Conlee 117-W	Conlee Seed Co., Inc.	19	167.9	-	-	-	-
TERRA - TR700E	TERRA INT., INC.	20	167.7	-	-	-	-
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	21	167.7	22	109.0	-	-
HS 9704	HyPerformer Seed Co.	22	167.6	9	113.9	-	-
F-3100	Frontier Hybrids, Inc.	23	167.3	-	-	-	-
TERRA - TR1160	TERRA INT., INC.	24	165.3	-	-	-	-
NC+ 6485	NC+ Hybrids	25	164.7	-	-	-	-
T-E 9586	Taylor-Evans Seed Co.	26	163.1	23	109.0	9	141.1
D736B	DEKALB Plant Genetics	27	162.5	28	106.4	-	-
8427	Cargill Hybrid Seeds	28	161.2	29	104.6	-	-
TERRA - TR621E	TERRA INT., INC.	29	160.9	-	-	-	-
HS 9911	HyPerformer Seed Co.	30	160.4	26	107.7	29	130.3
CHECK (GSC 4172)		31	160.3	3	117.5	40	126.0
SeKo 1180X	SeKo Distributing Co.	32	160.0	-	-	-	-

Table 2B. Weslaco, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 8410	NC+Hybrids	33	159.6	5	115.8	--	--
CHECK (AP675)		34	159.5	--	--	--	--
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	--	--
D717A	DEKALB Plant Genetics	37	157.7	--	--	--	--
SeKo 1151X	SeKo Distributing Co.	38	156.7	--	--	--	--
SeKo 1152X	SeKo Distributing Co.	39	154.8	--	--	--	--
FCx11850	Vineyard Seed Co., Inc.	40	151.6	--	--	--	--
92206Y	Tx. Agri. Exp. Stat.	41	149.2	--	--	--	--
ORO 188	ORO Hybrids-R.C. Young Seed Co.	42	148.9	18	110.5	--	--
TERRA - TR641E	TERRA INT., INC.	43	147.7	--	--	--	--
AG 4555	Pogue Seed Co.	44	147.3	--	--	--	--
91204Y	Tx. Agri. Exp. Stat.	45	146.1	--	--	--	--
W-2190	GEORGE WARNER SEED CO.	46	143.2	--	--	35	128.6
Vx11541W	Vineyard Seed Co., Inc.	47	133.8	--	--	--	--
84202Y	Tx. Agri. Exp. Stat.	48	129.1	44	93.8	25	131.0
GSC 4175	Gro Agri Seed Co.	--	--	2	120.0	40	126.0
HS 9773	HyPerformer Seed Co.	--	--	8	114.1	4	145.1
T-E 7093	Taylor-Evans Seed Co.	--	--	12	112.1	15	135.5
TS-777	TEXAS SEED CO., INC.	--	--	16	110.7	46	120.0
KING'S 4154A	DOUGLASS W. KING CO., INC.	--	--	19	110.3	7	142.3
G-4673B	Delta and Pine Land Co.	--	--	30	104.3	8	141.2
KING'S 5154	DOUGLASS W. KING CO., INC.	--	--	31	104.0	10	140.8
W-2166	GEORGE WARNER SEED CO.	--	--	39	100.1	48	116.4
F-3085	Frontier Hybrids, Inc.	--	--	40	100.0	38	126.7
3165	Pioneer Hi-Bred Int., Inc.	--	--	42	98.3	2	149.4
Number Entries:		48		50		55	
Test Mean Yield:			164.6		105.5		129.4

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

TABLE 3. AGRONOMIC AND TEST INFORMATION: CORPUS CHRISTI

TEST:	1992 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:	2-20-92 by cone planter
DATE THINNED:	3-24-92, thinned to seed company recommendations
PLOT LENGTH:	22'
FERTILIZER:	310 lb/A 24-8-8-3S + 2 lb/A Managense on 12-10-91; 190 lb/A liquid 32-0-0 on 4-14-92
HERBICIDE:	.9 qt/A Atrazine on 12-11-91
INSECTICIDE:	6 lb/A of Counter (terbufos) at planting
RAINFALL:	September '91 =6.59"; October =.92"; November =.36"; December =6.63"; January =3.03"; February =3.40"; March = 4.11"; April = 2.29"; May = 7.67"; June =2.26"; July = 0.77"; Total =38.03"
IRRIGATIONS:	None
DATE HARVESTED:	7-10-92, with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows, 22' each or 1/312.63 ACF
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	46
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP:	20,720 plants/A
TEST MEAN:	134.2 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	8.2 percent

GENERAL INFORMATION: Outstanding yields were attained at this Coastal Bend location and may reflect the potential of corn in this area. The season started with a recharged soil moisture profile from abundant fall and winter rains. The test block was prepared in December thus resulting in an excellent seedbed for the February 20 planting. Seedling emergence was rapid and excellent plant stands were achieved after the March 23 thinning date. Timely rainfall in March and April insured continuous plant growth and development. Additional rains during the tassel-silk stage insured grain fill.

A MF8 plot combine was used to harvest the two-row 22 foot plots. Electronic equipment mounted on the combine calculated plot weight, test weight, and moisture.

The test mean yield was 134.2 bu/A compared to 93.5 bu/A in 1991 with 15 hybrids producing over 140 bu/A. Broken and lodged plants were observed in the test with counts made just prior to harvest. These counts are reflected in Table 3A under the heading of "PERCENT ERECT PLANTS." Test weights were good with the range being from 51.6 to 59.5 lb/bu.

Due to high rainfall and high humidity during the growing season, conditions were favorable for the occurrence of plant diseases. Hybrids within the test block were evaluated for a number of diseases that were present. Dr. Gary Odvody, Associate Professor, Plant Pathology, Texas A&M University Research and Extension Center, Corpus Christi, Texas took disease ratings from the test block on June 17. Disease readings were made for Northern Corn Leaf Blight (NCLB), Southern Corn Leaf Blight (SCLB), and Common Rust. Results of these readings are presented in Table 3A-1. It appears that there is a correlation between NCLB and yield. Those hybrids that are susceptible have a lower yield response than those that are resistant. A rating key is given at the end of Table 3A-1.

Table 3A. CORN PERFORMANCE TEST; CORPUS CHRISTI, TEXAS 1992

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+ 7304	NC+ Hybrids	Y	R	76	92	39	16.2	21181	95.6	57.6	161.6	A
HS 9905	HyPerformer Seed Co.	Y	R	74	90	32	19.4	23447	90.3	59.1	160.3	A-B
HS 9977	HyPerformer Seed Co.	Y	R	77	92	35	24.4	22978	98.0	57.2	155.1	A-C
HS 9843	HyPerformer Seed Co.	Y	R	75	95	39	15.2	23447	79.0	55.1	153.6	A-D
3085	Pioneer Hi-Bred Int., Inc.	Y	W	80	97	40	20.7	19305	93.5	53.4	149.3	A-E
HS 9704	HyPerformer Seed Co.	Y	R	74	93	36	15.6	23291	91.9	56.6	149.2	A-E
GSC 4626	GroAgri Seed Co.	W	W	74	96	36	23.7	22353	94.1	55.2	147.8	A-F
NC+ 7507	NC+ Hybrids	Y	R	77	92	41	15.7	20946	70.5	57.2	147.6	A-F
F-3100	Frontier Hybrids, Inc.	Y	R	76	91	36	15.9	21884	91.8	56.2	147.4	A-F
GSC 4715	Gro Agri Seed Co.	Y	W	75	95	35	20.0	22275	82.5	56.7	147.0	A-G
4682	Delta and Pine Land Co.	Y	R	77	89	37	17.0	20790	77.8	53.5	146.8	A-G
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	76	96	34	15.6	20712	91.7	56.0	145.1	A-H
TS-777	TEXAS SEED CO., INC.	Y	R	73	87	27	16.3	21337	98.2	57.9	143.0	A-H
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	Y	R	73	93	30	16.9	20321	100.0	58.4	142.4	B-H
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	77	93	40	15.5	19149	78.4	56.9	140.1	C-I
7997	Cargill Hybrid Seeds	Y	R	73	96	33	14.4	20243	92.3	56.8	139.5	C-J
91206Y	Tx. Agri. Exp. Stat.	Y	R	75	94	39	16.5	20712	92.5	55.5	138.9	C-J
NC+ 6959	NC+ Hybrids	Y	R	76	93	38	15.0	20790	78.2	53.7	138.7	C-J
8427	Cargill Hybrid Seeds	Y	R	73	88	31	17.6	17742	100.0	58.3	138.1	C-K
T-E 6994	Taylor-Evans Seed Co.	Y	R	73	95	37	14.9	20086	77.4	55.3	137.3	C-K
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	75	95	35	16.4	21103	83.7	55.7	137.2	C-K
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	73	89	33	13.6	21103	96.7	53.5	136.8	C-K
T-E 6996	Taylor-Evans Seed Co.	Y	R	74	95	37	18.5	19852	79.5	59.1	136.7	C-K
CHECK	Tx. Agri. Exp. Stat.	Y	R	77	92	41	16.6	20165	83.7	54.6	135.6	D-L
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	77	95	34	14.4	20086	59.9	55.0	131.6	E-M
8695	Delta and Pine Land Co.	Y	R	76	88	38	21.3	20790	73.3	55.4	131.4	E-M
DK715	DEKALB Plant Genetics	Y	P	74	92	34	17.2	18367	90.2	54.7	131.3	E-M
3394	Pioneer Hi-Bred Int. Inc.	Y	R	73	90	35	13.0	20165	85.3	53.4	130.5	E-M
91204Y	Tx. Agri. Exp. Stat.	Y	R	77	96	42	19.2	20477	76.0	55.4	130.5	E-M
ORO 188	ORO Hybrids-R.C. Young	Y	R	75	84	37	20.2	22588	64.7	57.0	129.6	F-M

Table 3A. CORN PERFORMANCE TEST; CORPUS CHRISTI, TEXAS 1992

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	74	94	29	15.2	20086	92.2	54.7	129.4	F-M
NC+ 6485	NC+ Hybrids	Y	R	73	96	35	13.8	20634	97.7	55.0	128.3	F-M
HS 9911	HyPerformer Seed Co.	Y	R	74	86	35	15.2	21259	90.1	56.0	128.3	F-M
GSC 4192	Gro Agri Seed Co.	Y	R	73	84	29	16.3	22197	94.7	57.2	128.2	F-M
CHECK	Tx. Agri. Exp. Stat.	Y	W	75	89	33	17.1	19305	98.0	59.5	127.8	G-M
G-4673B	Delta and Pine Land Co.	Y	R	74	90	36	14.1	20712	93.2	56.0	127.6	G-M
G-4666	Delta and Pine Land Co.	Y	R	74	96	34	14.9	20008	81.6	57.0	126.6	H-N
GSC 4172	Gro Agri Seed Co.	Y	R	76	87	34	19.0	21337	57.9	53.1	122.3	I-O
84202Y	Tx. Agri. Exp. Stat.	Y	P	78	96	43	17.1	19383	22.2	55.1	120.2	J-O
8620	Delta and Pine Land Co.	Y	R	74	86	28	15.6	19539	92.4	55.9	118.8	K-O
DK743	DEKALB Plant Genetics	Y	P	73	96	38	16.6	19539	82.8	56.3	116.5	L-O
3245	Pioneer Hi-Bred Int., Inc.	Y	P	74	92	31	13.7	19539	99.6	58.3	114.9	M-O
ORO 270	ORO Hybrids-R.C. Young	Y	R	78	89	32	17.6	21571	84.8	58.2	113.2	M-P
KING'S 6154	DOUGLASS W. KING CO., INC.	Y	R	79	94	39	13.7	20868	75.7	52.7	109.0	N-P
92206Y	Tx. Agri. Exp. Stat.	Y	W	81	99	43	23.2	20477	44.7	51.6	104.8	O-P
90211W	Tx. Agri. Exp. Stat.	Y	W	74	92	37	14.6	18992	80.2	52.2	96.5	P

Test Mean = 134.2 Test C. V. = 8.2 LSD .05 = 15.5

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 DK689, AgriPro AP675 and Conlee 202 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 3A-1. Disease ratings for forty-six hybrids in the 1992 Corpus Christi Corn Performance Test.

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
7997	Cargill	I	1.5	2.0	0.0
		II	2.0	2.5	0.0
		III	3.0	2.0	0.0
		IV	3.0	2.5	0.0
8427	Cargill	I	1.5	1.5	0.0
		II	1.5	1.5	0.0
		III	2.5	2.0	0.0
		IV	1.5	2.0	0.0
DK715	DeKalb	I	2.5	1.5	0.0
		II	2.5	2.0	0.0
		III	3.5	2.5	0.0
		IV	2.0	1.5	0.0
DK743	DeKalb	I	3.5	1.5	0.0
		II	4.0	1.5	0.0
		III	4.0	2.0	0.0
		IV	4.0	3.0	0.0
G-4673B	Delta & Pineland	I	3.0	2.0	3.0
		II	4.5	1.5	0.0
		III	4.5	3.0	2.0
		IV	4.5	2.0	2.0
G-4666	Delta & Pineland	I	2.0	3.5	0.0
		II	1.5	4.5	0.0
		III	3.0	1.5	0.0
		IV	4.5	2.0	0.0
4682	Delta & Pineland	I	1.5	1.5	0.0
		II	1.5	2.0	0.0
		III	1.5	1.5	0.0
		IV	1.5	3.0	0.0
8620	Delta & Pineland	I	3.0	2.5	3.5
		II	2.0	4.5	1.5
		III	2.5	2.5	2.0
		IV	2.0	4.0	1.5
8695	Delta & Pineland	I	3.0	2.0	0.0
		II	2.0	1.0	2.5
		III	3.0	2.5	0.0
		IV	3.0	3.0	1.5

Table 3A-1. (Continued)

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
F-3100	Frontier	I	1.5	2.5	0.0
		II	2.5	2.5	0.0
		III	3.0	2.5	0.0
		IV	2.5	3.0	0.0
GSC 4192	GroAgri	I	2.0	3.5	3.0
		II	3.5	2.0	2.0
		III	3.0	3.0	0.0
		IV	2.5	2.5	0.0
GSC 4172	GroAgri	I	2.5	3.5	0.0
		II	2.5	2.0	2.0
		III	3.0	1.5	0.0
		IV	3.0	3.0	1.5
GSC 4715	GroAgri	I	T	3.5	0.0
		II	1.5	1.5	1.5
		III	2.0	1.5	2.0
		IV	2.0	3.0	1.5
GSC 4626	GroAgri	I	1.0	2.5	0.0
		II	1.5	2.5	0.0
		III	1.5	2.5	0.0
		IV	1.5	1.5	0.0
HS 9704	HyPerformer	I	1.5	4.5	0.0
		II	2.0	2.5	0.0
		III	1.5	3.0	0.0
		IV	1.5	4.0	0.0
HS 9843	HyPerformer	I	2.0	2.5	0.0
		II	4.0	4.0	0.0
		III	3.0	2.0	0.0
		IV	2.0	4.0	0.0
HS 9905	HyPerformer	I	1.5	4.0	0.0
		II	2.5	3.0	0.0
		III	1.5	2.0	0.0
		IV	2.0	3.0	0.0
HS 9911	HyPerformer	I	2.0	3.0	0.0
		II	3.5	3.5	0.0
		III	4.0	2.5	0.0
		IV	2.5	3.5	0.0

Table 3A-1. (Continued)

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
HS 9977	HyPerformer	I	1.5	2.0	0.0
		II	3.0	3.5	0.0
		III	1.5	2.5	0.0
		IV	1.5	2.5	0.0
Garst 8315	ICI (Garst)	I	3.0	2.0	0.0
		II	3.0	3.0	0.0
		III	3.0	2.0	0.0
		IV	3.0	1.5	0.0
Sunbelt 1803	ICI (Garst)	I	1.0	3.0	0.0
		II	2.0	2.0	0.0
		III	1.5	2.5	0.0
		IV	2.5	3.0	0.0
NC+ 6485	NC+	I	1.5	2.5	0.0
		II	1.5	5.0	0.0
		III	2.0	4.0	0.0
		IV	3.5	3.0	0.0
NC+ 6959	NC+	I	2.5	3.5	0.0
		II	4.0	4.0	0.0
		III	3.0	2.0	0.0
		IV	2.5	2.5	0.0
NC+ 7304	NC+	I	1.5	2.0	0.0
		II	2.5	1.5	0.0
		III	2.0	2.5	0.0
		IV	1.5	3.0	0.0
NC+ 7507	NC+	I	3.0	2.0	0.0
		II	3.5	3.0	0.0
		III	3.5	1.5	0.0
		IV	3.5	1.5	0.0
ORO 188	ORO Hybrids	I	3.0	2.5	0.0
		II	3.0	2.5	0.0
		III	2.5	3.0	1.5
		IV	3.0	2.5	1.5
ORO 270	ORO Hybrids	I	4.5	1.5	0.0
		II	4.5	1.0	0.0
		III	3.5	2.0	0.0
		IV	4.0	2.0	1.5

Table 3A-1. (Continued)

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
X1612	Pioneer	I	2.0	2.5	2.0
		II	2.5	2.5	0.0
		III	2.5	2.5	0.0
		IV	2.0	2.5	0.0
X1811	Pioneer	I	3.0	3.0	0.0
		II	3.0	2.5	0.0
		III	3.0	1.5	0.0
		IV	3.5	3.0	0.0
X1812	Pioneer	I	1.0	2.5	0.0
		II	2.5	2.5	0.0
		III	2.5	3.0	0.0
		IV	2.0	1.5	0.0
X1813	Pioneer	I	2.0	3.5	0.0
		II	1.5	4.5	0.0
		III	2.5	2.0	0.0
		IV	3.5	2.0	0.0
3085	Pioneer	I	1.0	2.0	0.0
		II	1.5	2.5	0.0
		III	1.5	1.5	0.0
		IV	1.0	3.0	0.0
3245	Pioneer	I	4.0	4.0	0.0
		II	5.0	4.0	0.0
		III	4.5	2.0	0.0
		IV	4.5	3.0	0.0
3394	Pioneer	I	1.5	2.0	0.0
		II	2.5	2.0	0.0
		III	2.5	4.0	0.0
		IV	2.5	3.0	0.0
T-E 6994	Taylor-Evans	I	1.5	4.0	0.0
		II	3.0	3.0	0.0
		III	2.0	2.5	0.0
		IV	2.5	3.0	0.0
T-E 6996	Taylor-Evans	I	1.0	1.5	1.5
		II	2.0	2.5	2.0
		III	2.5	1.5	0.0
		IV	2.0	1.0	0.0

Table 3A-1. (Continued)

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
TS-777	Texas Seed	I	1.5	1.5	0.0
		II	1.5	1.5	1.5
		III	1.5	4.0	0.0
		IV	2.0	2.5	0.0
6154	Douglass King	I	3.5	1.5	0.0
		II	5.0	1.0	0.0
		III	5.0	2.0	0.0
		IV	4.5	1.0	0.0
84202	Tx. Ag. Exp. Stat.	I	2.0	3.5	0.0
		II	3.5	1.5	0.0
		III	3.5	2.0	0.0
		IV	3.5	2.0	1.5
91204	Tx. Ag. Exp. Stat.	I	1.5	3.0	0.0
		II	1.0	1.0	0.0
		III	1.5	3.0	1.5
		IV	2.0	2.5	0.0
90211	Tx. Ag. Exp. Stat.	I	1.0	4.0	0.0
		II	1.5	3.0	0.0
		III	1.5	3.5	0.0
		IV	2.0	3.0	2.0
91206	Tx. Ag. Exp. Stat.	I	1.0	3.0	0.0
		II	1.5	2.0	0.0
		III	1.0	2.0	1.5
		IV	1.5	3.5	2.0
92206	Tx. Ag. Exp. Stat.	I	4.0	2.0	0.0
		II	4.0	1.5	0.0
		III	4.5	1.5	0.0
		IV	4.0	2.0	0.0
Check 1	Tx. Ag. Exp. Stat.	I	1.0	3.0	2.0
		II	1.5	3.0	0.0
		III	2.0	2.5	0.0
		IV	1.5	4.0	0.0
Check 2	Tx. Ag. Exp. Stat.	I	1.0	2.0	0.0
		II	1.0	2.5	1.5
		III	1.0	3.0	0.0
		IV	1.0	3.0	2.0

Table 3A-1. (Continued)

HYBRID	COMPANY	REP	NCLB	SOUTHERN RUST	SCLB
Check 3	Tx. Ag. Exp. Stat.	I	1.5	2.0	0.0
		II	1.5	3.0	0.0
		III	1.5	3.5	0.0
		IV	1.5	2.5	1.5

Appreciation is expressed to Dr. Gary Odvody, Plant Pathologist, Texas A&M University Agricultural Research and Extension Center, Corpus Christi, Texas for obtaining reading on June 17, 1992 for Northern Corn Leaf Blight (NCLB), Southern Rust, and Southern Corn Leaf Blight. Rating scale is as follows:

Rating for NCLB (*Exserohilum turcicum*) and Southern Rust (*Puccinia polysora*) were on a scale of 0 to 5 where:

- 0= no rating possible.
- 1= resistant, disease not seen.
- 2= disease incidence on 50% or more plants but with low lesion and low overall disease severity.
- 3= Near 100% incidence with high lesion numbers and low to moderate overall disease severity.
- 4= 100% incidence with high lesion number and severity (coalesced lesions) on most plants.
- 5= most leaves and most plants killed by the disease.
- T= Trace of disease seen, extremely low incidence.

Rating scale for SCLB (*Bipolaris maydis*) same as for NCLB except 0= no rating possible due to low incidence of SCLB. Other SCLB ratings are relative ratings to differentiate hybrid response to the pathogen under the low disease pressure of SCLB in this test.

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

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 7304	NC+ Hybrids	1	161.6	8	102.1	-	-
HS 9905	HyPerformer Seed Co.	2	160.3	-	-	-	-
HS 9977	HyPerformer Seed Co.	3	155.1	-	-	-	-
HS 9843	HyPerformer Seed Co.	4	153.6	-	-	-	-
3085	Pioneer Hi-Bred Int., Inc.	5	149.3	32	79.9	-	-
HS 9704	HyPerformer Seed Co.	6	149.2	-	-	-	-
GSC 4626	Gro Agri Seed Co.	7	147.8	-	-	-	-
NC+ 7507	NC+ Hybrids	8	147.6	20	92.2	-	-
F-3100	Frontier Hybrids, Inc.	9	147.4	-	-	-	-
GSC 4715	Gro Agri Seed Co.	10	147.0	-	-	-	-
4682	Delta and Pine Land Co.	11	146.8	-	-	-	-
X1812	Pioneer Hi-Bred Int., Inc.	12	145.1	-	-	-	-
TS-777	TEXAS SEED CO., INC.	13	143.0	9	100.8	-	-
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	14	142.4	-	-	-	-
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	15	140.1	-	-	-	-
7997	Cargill Hybrid Seeds	16	139.5	-	-	-	-
91206Y	Tx. Agri. Exp. Stat.	17	138.9	-	-	-	-
NC+ 6959	NC+ Hybrids	18	138.7	-	-	-	-
8427	Cargill Hybrid Seeds	19	138.1	17	95.6	-	-
T-E 6994	Taylor-Evans Seed Co.	20	137.3	3	104.5	-	-
X1813	Pioneer Hi-Bred Int., Inc.	21	137.2	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	22	136.8	-	-	-	-
T-E 6996	Taylor-Evans Seed Co.	23	136.7	31	86.2	-	-
CHECK (DK689)		24	135.6	-	-	-	-
X1811	Pioneer Hi-Bred Int., Inc.	25	131.6	-	-	-	-
8695	Delta and Pine Land Co.	26	131.4	-	-	-	-
DK715	DEKALB Plant Genetics	27	131.3	23	91.5	-	-
3394	Pioneer Hi-Bred Int., Inc.	28	130.5	-	-	-	-
91204Y	Tx. Agri. Exp. Stat.	29	130.5	16	95.7	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	30	129.6	-	-	-	-

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

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
CHECK (AP675)		31	129.4	--	--	--	--
NC+ 6485	NC+ Hybrids	32	128.3	--	--	--	--
HS 9911	HyPerformer Seed Co.	33	128.3	4	103.3	--	--
GSC 4192	Gro Agri Seed Co.	34	128.2	11	100.3	--	--
CHECK (Conlee 202)		35	127.8	--	--	--	--
G-4673B	Delta and Pine Land Co.	36	127.6	22	91.5	--	--
G-4666	Delta and Pine Land co.	37	126.6	13	99.0	--	--
GSC 4172	Gro Agri Seed Co.	38	122.3	18	94.3	--	--
84202Y	Tx. Agri Exp. Stat.	39	120.2	36	67.3	--	--
8620	Delta and Pine Land Co.	40	118.8	--	--	--	--
DK743	DEKALB Plant Genetics	41	116.5	14	98.0	--	--
3245	Pioneer Hi-Bred Int., Inc.	42	114.9	2	110.7	--	--
ORO 270	ORO Hybrids-R.C. Young Seed Co.	43	113.2	--	--	--	--
KING'S 6154	DOUGLASS W. KING CO., INC.	44	109.0	--	--	--	--
92206Y	Tx. Agri. Exp. Stat.	45	104.8	--	--	--	--
90211W	Tx. Agri. Exp. Stat.	46	96.5	--	--	--	--
Number Entries:		46		36		--	
Test Mean Yield:			134.2		93.5		--

Note: Hybrids with the same yields were ranked by computer

TABLE 4.

AGRONOMIC AND TEST INFORMATION: CASTROVILLE

TEST:	1992 Irrigated Corn Performance Test
LOCATION:	Henry Lee Keller Farm, Castroville, Texas
COOPERATORS:	Wayne Scholtz, John Northcut, Dennis Pietsch, Randy Gaas, and Leon Synatschk
SOIL TYPE:	Knippa clay
ROW WIDTH:	36"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Shred stalks, disked twice, moldboard, disked, bedded and rod-weeded prior to planting
DATE PLANTED:	2-29-92, hand dropped behind a JD 80 planter
DATE THINNED:	3-31-92, thinned to seed company recommendations
PLOT LENGTH:	20'
FERTILIZER:	Applied 350 lb/A of 8-24-4-2 + 2 lb/A Zinc preplant; 125 lb/A of 82-0-0, preplant; and 300 lb/A of 32-0-0 at first cultivation
HERBICIDE:	Banded 1.5 pt/A AATREX (atrazine) at planting and applied 1.5 pt/A Prowl (pendimethalin) at last cultivation
INSECTICIDE:	7 lb/A of Force 1.5 G (tefluthrin) at planting and 4 lb/A of Furadan (carbofuran) in whorl at last cultivation
RAINFALL:	Approximately 20 inches during the growing season
IRRIGATIONS:	Applied 2 irrigations of approximately 3" each during growing season
DATE HARVESTED:	8-4-6-92 with a MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 20 feet long
TEST DESIGN:	Restricted Randomized block
NUMBER ENTRIES:	38
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	22,856 plants/A
TEST MEAN:	148.3 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	6.6 percent

GENERAL INFORMATION: This test site is considered a major food corn producing area in Texas and is recognized for the high quality corn produced. This site is representative of conditions in the Medina County Area of Texas.

Average yields were attained at this test site despite adequate rainfall and a timely irrigation schedule. An excellent seedbed and an earlier than normal planting date resulted in good seedling emergence. The test block suffered damage from a hailstorm when plants were 18-24 inches tall which may have reduced potential yields. Only two irrigations were applied to the test block due to timely rainfall. The irrigations insured plant growth and development and aided in grain fill.

Caution should be used when interpreting the column in the following Table designated "% ERECT PLANTS." At harvest, number of plants from each plot were counted along with number plants leaning more than 45 degrees. Plants that were leaning more than 45 degrees were classified as lodged plants. Even though some plots had very few erect plants, the combine was able to "pick-up" the stalks and harvest the ear; thus, yield was not affected.

The test mean yield was 148.3 bu/A compared to the past 3-year average of 152.2 bu/A. Ten hybrids produced over 160 bu/A. Bushel weights recorded from the test block were excellent. Moisture content at harvest was low as reflected in the Table.

Table 4A. CORN PERFORMANCE TEST; CASTROVILLE, TEXAS 1992

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						
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	71	103	41	12.6	23051	44.9	58.4	175.6	A
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	72	98	39	13.5	22234	38.0	55.9	173.3	A-B
HS 9843	HyPerformer Seed Co.	Y	R	72	94	43	13.2	24412	71.7	59.0	170.8	A-C
HS 9905	HyPerformer Seed Co.	Y	R	70	87	36	14.5	25501	45.2	59.7	167.3	A-D
GSC 4172	Gro Agri Seed Co.	Y	R	71	86	41	14.6	24140	16.2	56.9	166.0	A-E
3245	Pioneer Hi-Bred Int., Inc.	Y	P	70	97	34	13.4	21871	64.3	62.8	165.2	A-F
GSC 4202	GroAgri Seed Co.	Y	R	71	92	38	12.3	23958	56.1	58.2	163.5	A-G
T-E 9586	Taylor-Evans Seed Co.	Y	R	72	93	41	14.5	23051	20.9	57.9	162.7	A-G
91208Y	Tx. Agri. Exp. Stat.	Y	R	71	92	41	13.4	22415	54.3	57.9	160.9	A-H
TERRA - TR700E	TERRA INT., INC.	Y	R	71	92	40	14.9	22597	61.8	57.9	160.9	A-H
3085	Pioneer Hi-Bred Int., Inc.	Y	W	75	104	44	14.0	20873	12.6	59.9	157.1	BI
HS 9977	HyPerformer Seed Co.	Y	R	72	94	38	14.2	23867	77.2	62.1	155.4	C-I
91202Y	Tx. Agri. Exp. Stat.	Y	R	71	94	38	12.5	23051	43.7	58.9	154.6	C-I
TERRA - TR621E	TERRA INT., INC.	Y	R	69	93	35	13.1	25410	64.6	59.9	153.6	DI
G-4673B	Delta and Pine Land Co.	Y	R	69	90	35	13.2	22869	48.4	59.7	153.3	D-J
T-E 9106-X	Taylor-Evans Seed Co.	Y	R	71	94	35	12.7	21962	75.6	58.5	152.5	D-J
CHECK	Tx. Agri. Exp. Stat.	Y	W	75	103	47	15.5	23595	76.9	58.1	151.6	D-J
HS 9911	HyPerformer Seed Co.	Y	R	70	97	39	14.1	24049	92.5	60.7	151.4	D-J
HS 9704	HyPerformer Seed Co.	Y	R	70	89	39	12.8	23958	72.3	58.8	150.7	D-J
Vx01420w	Vineyard Seed Co., Inc.	W	W	71	91	40	14.6	20873	25.2	60.7	149.9	E-J
TERRA - TR1167	TERRA INT., INC.	Y	R	72	93	41	11.5	21326	24.7	57.6	149.1	F-J
TERRA - TR1160	TERRA INT., INC.	Y	P	69	98	41	12.1	24230	73.4	58.9	149.0	F-J
ORO 188	ORO Hybrids-R.C. Young	Y	R	71	91	41	14.0	22506	18.5	58.8	147.9	G-K
91204Y	Tx. Agri. Exp. Stat.	Y	R	72	98	46	14.0	23323	33.5	57.9	147.3	G-K
CHECK	Tx. Agri. Exp. Stat.	W	W	76	104	43	15.6	22143	35.2	56.1	147.1	G-K
4682	Delta and Pine Land Co.	Y	R	72	90	34	12.3	22778	37.1	56.2	144.9	H-K
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	71	98	43	12.7	20600	10.6	60.0	144.0	I-K
GSC 4192	Gro Agri Seed Co.	Y	R	68	88	35	12.7	26318	94.1	60.3	141.9	I-L
TS-777	TEXAS SEED CO., INC.	Y	R	67	87	29	13.9	23323	86.4	60.9	140.9	I-L
GC 06368	Germain's Seed Inc.	Y	R	70	104	38	13.6	22052	92.6	59.1	136.8	J-M

Table 4A. CORN PERFORMANCE TEST; CASTROVILLE, TEXAS 1992

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 - TR641E	TERRA INT., INC.	Y	R	68	87	32	12.7	21962	90.1	59.3	131.8	K-N
3394	Pioneer Hi-Bred Int., Inc.	Y	R	68	88	35	11.9	20691	90.8	57.4	127.8	L-N
Vx11541w	Vineyard Seed Co., Inc.	W	W	72	92	37	15.5	23777	28.2	57.8	126.5	L-N
FCx11850	Vineyard Seed Co., Inc.	Y	W	67	88	29	12.7	21599	68.5	60.0	126.4	L-N
FCxF1253	Vineyard Seed Co., Inc.	Y	W	71	92	30	12.7	21962	82.2	58.9	124.2	M-N
FCxF1261	Vineyard Seed Co., Inc.	Y	W	69	90	34	12.4	24230	90.3	61.2	120.8	N
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	68	91	32	11.7	21145	96.1	56.6	116.3	N
92212Y	Tx. Agri. Exp. Stat.	Y	R	73	87	38	12.2	21962	66.5	58.9	116.2	N

Test Mean = 148.3 TEST C. V. = 6.6 LSD .05 = 13.7

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.

* Asgrow Rx404 and Rx405W 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 4B. Three-year summary, Corn Performance Test, Castroville, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
X1811	Pioneer Hi-Bred Int., Inc.	1	175.6	-	-	-	-
X1812	Pioneer Hi-Bred Int., Inc.	2	173.3	-	-	-	-
HS 9843	HyPerformer Seed Co.	3	170.8	-	-	-	-
HS 9905	HyPerformer Seed Co.	4	167.3	-	-	-	-
GSC 4172	Gro Agri Seed Co.	5	166.0	-	-	-	-
3245	Pioneer Hi-Bred Int., Inc.	6	165.2	3	176.3	1	183.3
GSC 4202	Gro Agri Seed Co.	7	163.5	-	-	-	-
T-E 9586	Taylor-Evans Seed Co.	8	162.7	8	167.9	20	151.7
91208Y	Tx. Agri. Exp. Stat.	9	160.9	-	-	-	-
TERRA - TR700E	TERRA INT., INC.	10	160.9	-	-	-	-
3085	Pioneer Hi-Bred Int., Inc.	11	157.1	2	177.2	2	178.3
HS 9977	HyPerformer Seed Co.	12	155.4	-	-	-	-
91202Y	Tx. Agri. Exp. Stat.	13	154.6	21	155.6	-	-
TERRA - TR621E	TERRA INT., INC.	14	153.6	-	-	-	-
G-4673B	Delta and Pine Land Co.	15	153.3	26	149.8	26	145.8
T-E 9106-X	Taylor-Evans Seed Co.	16	152.5	-	-	-	-
CHECK (Rx404)		17	151.6	-	-	12	159.3
HS 9911	HyPerformer Seed Co.	18	151.4	-	-	37	131.1
HS 9704	HyPerformer Seed Co.	19	150.7	-	-	-	-
Vx01420w	Vineyard Seed Co., Inc.	20	149.9	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	21	149.1	-	-	-	-
TERRA - TR1160	TERRA INT., INC.	22	149.0	-	-	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	23	147.9	4	173.2	9	161.4
91204Y	Tx. Agri. Exp. Stat.	24	147.3	11	164.8	-	-
CHECK (Rx405W)		25	147.1	23	154.5	24	148.6
4682	Delta and Pine Land Co.	26	144.9	-	-	-	-
X1813	Pioneer Hi-Bred Int., Inc.	27	144.0	-	-	-	-
GSC 4192	Gro Agri Seed Co.	28	141.9	-	-	-	-
TS-777	TEXAS SEED CO., INC.	29	140.9	18	157.5	18	153.6
GC 06368	Germain's Seed Inc.	30	136.8	-	-	-	-

Table 4B. Castroville, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
TERRA - TR641E	TERRA INT., INC.	31	131.8	-	-	-	-
3394	Pioneer Hi-Bred Int., Inc.	32	127.8	-	-	-	-
Vx11541w	Vineyard Seed Co., Inc.	33	126.5	-	-	-	-
FCx11850	Vineyard Seed Co., Inc.	34	126.4	-	-	-	-
FCxF1253	Vineyard Seed Co., Inc.	35	124.2	-	-	-	-
FCxF1261	Vineyard Seed Co., Inc.	36	120.8	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	37	116.3	-	-	-	-
92212Y	Tx. Agri. Exp. Stat.	38	116.2	-	-	-	-
3165	Pioneer Hi-Bred Int., Inc.	-	-	5	169.3	22	151.4
G-4666	Delta and Pine Land Co.	-	-	9	167.5	27	145.6
HS 9773	HyPerformer Seed Co.	-	-	10	166.4	7	165.5
HS 9663	HyPerformer Seed Co.	-	-	13	162.5	8	163.8
KING'S 4154A	DOUGLASS W. KING CO., INC.	-	-	16	160.3	3	177.0
KING'S 5154	DOUGLASS W. KING CO., INC.	-	-	17	158.1	13	158.6
3170	Pioneer Hi-Bred Int., Inc.	-	-	20	156.5	16	154.5
V68W	Vineyard Seed Co., Inc.	-	-	24	152.9	10	160.5
ORO 180	ORO Hybrids-R.C. Young Seed Co.	-	-	27	147.1	11	159.7
Number Entries:		38		36		44	
Test Mean Yield:			148.3		157.3		148.8

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

TABLE 5.

AGRONOMIC AND TEST INFORMATION: WHARTON

TEST:	1992 Dryland Corn Performance Test
LOCATION:	Larry Kalina Farm, Wharton, Texas
COOPERATORS:	Larry Kalina, Dennis Pietsch, Randy Gaas, Leon Synatschk, and John Cospers
SOIL TYPE:	Asa sandy clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked, bedded, re-bedded, hipped, fertilized, and cultivated
DATE PLANTED:	3-23-92, hand dropped behind a JD Max-Emerge planter
DATE THINNED:	4-15-92, thinned to seed company recommendations
PLOT LENGTH:	25 feet
FERTILIZER:	550 lb/A of 25-7-0-2(Zn)
HERBICIDE:	Broadcast 3 qt/A of Lariat
INSECTICIDE:	7 lb/A Counter 15G (terbufos) at planting
RAINFALL:	Jan = 6.8", Feb = 7.9" March = 5.5", April = 7.4", May = 7.6", June = 3.5", July = 4.1", Total = 42.8"
IRRIGATIONS:	None
DATE HARVESTED:	8-6-92 with a combine provided by Garst Seed Co.
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	60
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	22,415 plants/A
TEST MEAN:	163.7 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	8.4 percent

GENERAL INFORMATION: Sixty hybrids were entered by 16 commercial companies and the Texas Agricultural Experiment Station which made this site one of the largest of nine corn performance test conducted in Texas by the Crop Testing Program. This site is located in a major corn producing area of Texas and is representative of the Upper Coast of Texas. This region will account for approximately 10% of Texas' 1.45 million acres harvested in 1992.

Despite a later than normal planting date, near-perfect growing conditions resulted in outstanding yields at this test site. Wet soil conditions delayed planting until March 23 which is approximately three weeks later than the optimum date. Seedling emergence was rapid and excellent plant stands were attained after thinning. Timely rainfall throughout the growing season insured continuous plant growth and development, alleviated plant stress, and insured grain fill. The test block received 42.8 inches of rainfall from January to August which is considered above normal for this period of time.

The test mean yield was 163.7 bu/A compared to 100.7 bu/A in 1991. Very seldom do we see dryland yields in Texas reach the levels as they did in this test. The incidence of broken and lodged plants were low as shown in the following Table. Excellent bushel weights were also recorded in the test block.

Southern Corn Rust was observed in the test block and visual ratings were made by Dr. R. A. Frederiksen and staff on July 16. Results of these readings are attached in a separate Table and expressed in percent infection. An explanation is given at the end of the Table.

Appreciation is expressed to Garst Seed Company, El Campo Research Center, 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 1992

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 ****
DK743	DEKALB Plant Genetics	Y	P	66	116	41	17.1	23983	98.9	58.4	200.3	A
DK689	DEKALB Plant Genetics	Y	P	66	110	44	16.0	23395	99.2	58.0	192.9	A-B
ORO Exp. 211	ORO Hybrids-R.C. Young	Y	P	66	108	37	14.4	26271	98.5	59.5	189.5	A-C
T-E 9106-X 3085	Taylor-Evans Seed Co. Pioneer Hi-Bred Int., Inc.	Y Y	R R	66 70	110 117	41 48	14.5 17.4	23134 21566	99.7 96.1	58.6 58.0	189.0 187.1	A-D A-E
KING'S 6154	DOUGLASS W. KING CO., INC.	Y	P	69	115	46	15.4	24768	98.9	58.2	182.6	A-F
ORO 188	ORO Hybrids-R.C. Young	Y	R	67	106	38	16.6	25552	98.2	58.2	180.6	A-G
ORO 270	ORO Hybrids-R.C. Young	Y	R	69	108	43	17.7	26336	99.8	58.9	179.9	A-G
X1813	Pioneer Hi-Bred Int., Inc.	Y	W	67	111	43	15.8	20716	95.9	57.9	179.0	A-G
T-E 9586	Taylor-Evans Seed Co.	Y	P	66	112	45	16.7	24310	98.7	57.7	178.8	A-H
HS 9843	HyPerformer Seed Co.	Y	R	65	106	42	14.9	21958	99.1	58.8	176.5	B-I
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	68	111	49	14.9	21173	99.1	59.6	174.5	B-J
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	67	109	39	15.4	19605	97.3	58.0	173.9	B-K
TERRA - TR700E	TERRA INT., INC.	Y	R	66	109	41	16.7	22873	97.4	58.0	172.6	B-L
GSC 4175	Gro Agri Seed Co.	Y	R	69	108	41	17.5	24964	99.5	59.6	171.9	B-L
F-3100	Frontier Hybrids, Inc.	Y	R	67	105	42	15.0	24049	98.6	59.0	171.0	B-M
T-E 6994	Taylor-Evans Seed Co.	Y	W	65	109	42	15.5	24114	98.6	58.3	170.4	B-M
8695	Delta and Pine Land Co.	Y	R	66	110	43	16.7	20847	99.1	57.8	169.2	C-M
HS 9977	HyPerformer Seed Co.	Y	R	67	106	35	17.2	22938	98.6	60.0	169.1	C-M
CHECK	Tx. Agri. Exp. Stat.	Y	R	69	110	43	17.3	22873	96.0	57.2	168.6	C-M
3245	Pioneer Hi-Bred Int., Inc.	Y	R	66	110	37	14.7	20389	99.4	60.7	168.5	C-M
TERRA - TR621E	TERRA INT., INC.	Y	R	65	104	34	16.8	24114	97.6	58.6	168.2	C-M
92218Y	Tx. Agri. Exp. Stat.	Y	R	69	110	40	16.3	22742	98.0	57.5	167.5	C-M
X1811	Pioneer Hi-Bred Int., Inc.	Y	R	66	113	42	14.7	19409	98.3	58.9	167.3	C-M
4682	Delta and Pine Land Co.	Y	R	68	109	44	15.5	20585	99.7	56.4	167.0	C-N
91208Y	Tx. Agri. Exp. Stat.	Y	R	67	108	38	15.4	23526	98.3	57.5	166.1	C-N
GSC 4172	Gro Agri Seed Co.	Y	R	66	106	40	16.8	23853	99.7	57.7	165.6	C-N
GSC 4626	Gro Agri Seed Co.	W	W	66	110	40	17.3	24572	98.7	58.4	165.6	C-N
WxC-330	GEORGE WARNER SEED CO.	Y	R	66	103	38	16.5	18233	98.9	57.5	165.4	D-N
NC+ 7507	NC+ Hybrids	Y	R	67	107	46	14.6	20259	97.1	58.3	164.8	E-N

Table 5A. CORN PERFORMANCE TEST; WHARTON, TEXAS 1992

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+ 7304	NC+ Hybrids	Y	R	68	107	43	14.9	21173	98.5	59.3	164.3	E-N
GSC 4202	Gro Agri Seed Co.	Y	R	66	107	39	14.5	23657	97.5	58.6	163.9	E-N
7997	Cargill Hybrid Seeds	Y	R	64	111	38	14.0	22415	98.0	59.3	163.7	E-O
NC+ 6959	NC+ Hybrids	Y	R	66	105	42	15.2	20585	99.7	57.8	163.0	E-P
GSC 4195	Gro Agri Seed Co.	Y	R	65	104	36	17.0	27186	99.3	58.3	162.6	F-P
DK715	DEKALB Plant Genetics	Y	P	65	102	32	16.3	23787	98.1	57.3	160.5	F-Q
8620	Delta and Pine Land Co.	Y	R	64	107	34	16.5	22219	100.0	59.4	160.5	F-Q
TERRA - TR1167	TERRA INT., INC.	Y	R	67	105	40	14.8	22938	98.6	58.2	160.4	F-Q
TERRA - TR1160	TERRA INT., INC.	Y	R	64	107	39	15.4	22873	98.9	60.1	160.3	F-Q
3394	Pioneer Hi-Bred Int., Inc.	Y	R	65	108	40	14.5	20389	99.7	58.9	159.3	F-Q
G-4673B	Delta and Pine Land Co.	Y	R	65	109	39	14.9	22415	99.1	58.4	158.4	F-Q
G-4666	Delta and Pine Land Co.	Y	R	65	109	38	15.5	21631	98.8	59.8	157.4	G-Q
T-E 7081	Taylor-Evans Seed Co.	Y	R	67	105	37	16.0	23003	98.9	59.8	157.2	G-Q
W-2170	GEORGE WARNER SEED CO.	Y	R	67	106	41	14.8	19801	99.0	58.4	154.6	H-Q
91204Y	Tx. Agri. Exp. Stat.	Y	R	66	112	44	16.3	23526	97.2	58.1	153.8	I-Q
TERRA - TR701E	TERRA INT., INC.	Y	R	65	103	33	16.7	23265	99.2	59.2	153.5	I-Q
HS 9704	HyPerformer Seed Co.	Y	R	66	106	40	15.2	23134	98.3	58.8	153.5	I-Q
HS 9911	HyPerformer Seed Co.	Y	R	66	110	38	15.4	22742	99.7	59.7	151.0	J-Q
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	Y	R	65	109	30	16.2	20259	99.7	59.3	150.4	J-R
92220Y	Tx. Agri. Exp. Stat.	Y	W	67	112	43	14.9	24049	98.9	59.4	150.0	K-R
92214Y	Tx. Agri. Exp. Stat.	Y	R	66	106	40	17.0	22873	99.7	58.4	149.4	L-R
N7816	Northrup King Co.	Y	R	64	106	38	14.4	20585	100.0	59.6	148.6	L-R
NC+ 6485	NC+ Hybrids	Y	R	65	108	39	15.3	21173	99.4	60.3	148.5	L-R
91202Y	Tx. Agri. Exp. Stat.	Y	R	66	109	40	15.6	22480	99.4	57.7	147.4	M-R
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	64	105	37	14.5	21672	100.0	57.2	142.8	N-R
TS-777	TEXAS SEED CO., INC.	Y	R	64	102	28	16.0	20847	99.7	59.7	139.8	O-R
W-3266	GEORGE WARNER SEED CO.	Y	R	66	112	41	15.4	19474	100.0	59.3	139.2	P-R
N-6873	Northrup King Co.	Y	R	64	107	38	14.7	21631	99.1	59.6	138.6	Q-R
8427	Cargill Hybrid Seeds	Y	R	65	104	34	16.0	21239	98.2	58.9	137.3	Q-R
W-2164	GEORGE WARNER SEED CO.	Y	P	65	114	37	14.7	18690	99.3	58.8	127.7	R

Table 5A. CORN PERFORMANCE TEST; WHARTON, TEXAS 1992

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 ****
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Test Mean = 163.7 TEST C. V. = 8.4 LSD .05 = 19.1

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.

* Pioneer 3165 was entered as a commercial check hybrid at our discretion. It 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 5A-1. Percent Southern Corn Rust Obtained From Sixty Hybrids Entered at Wharton, Texas Corn Performance Test--1992.

HYBRID	COMPANY	REP	REP	REP	MEAN
		I	II	III	%
		%	%	%	%
7997	CARGILL HYBRID SEEDS	18	5	8	10
8427	CARGILL HYBRID SEEDS	8	7	3	6
DK 689	DEKALB Plant Genetics	22	30	14	22 *
DK 715	DEKALB Plant Genetics	3	4	8	5
DK 743	DEKALB Plant Genetics	4	5	5	5
G-4673B	Delta and Pine Land Co.	9	30	12	17 *
G-4666	Delta and Pine Land Co.	25	7	12	15 *
4682	Delta and Pine Land Co.	12	15	23	17 *
8620	Delta and Pine Land Co.	1	8	7	5
8695	Delta and Pine Land Co.	7	7	5	6
KING'S 6154	DOUGLASS W. KING CO.	13	9	22	15 *
F-3100	Frontier Hybrids, Inc.	8	10	4	7
W-2170	GEORGE WARNER SEED CO.	18	15	6	13
W-3266	GEORGE WARNER SEED CO.	14	7	5	9
WxC-330	GEORGE WARNER SEED CO.	15	17	10	14 *
W-2164	GEORGE WARNER SEED CO.	17	30	18	22 *
GSC 4172	GroAgri Seed Co.	5	10	5	7
GSC 4195	GroAgri Seed Co.	4	2	3	3
GSC 4175	GroAgri Seed Co.	18	5	7	10
GSC 4202	GroAgri Seed Co.	15	30	5	17 *
GSC 4626	GroAgri Seed Co.	5	5	17	9
HS 9704	HyPerformer Seed Co.	5	4	2	4
HS 9843	HyPerformer Seed Co.	12	15	11	13
HS 9911	HyPerformer Seed Co.	13	9	18	13
HS 9977	HyPerformer Seed Co.	4	3	3	3
Garst 8315	ICI Seeds (Garst Seed Co.)	9	19	6	11
Sunbelt 1803	ICI Seeds (Garst Seed Co.)	5	7	5	6
NC+ 6485	NC+ Hybrids	5	10	27	14 *
NC+ 6959	NC+ Hybrids	18	8	14	13
NC+ 7304	NC+ Hybrids	8	25	16	16 *
NC+ 7507	NC+ Hybrids	14	25	12	17 *
N 7816	Northrup King Co.	30	10	6	15 *
N 6873	Northrup King Co.	30	30	4	21 *
ORO 188	ORO Hybrids-R.C. Young Seed Co.	5	6	2	4
ORO 270	ORO Hybrids-R.C. Young Seed Co.	6	8	9	8
ORO EXP. 211	ORO Hybrids-R.C. Young Seed Co.	9	19	27	18 *
X1612	Pioneer Hi-Bred Int., Inc.	8	12	27	16 *
X1811	Pioneer Hi-Bred Int., Inc.	18	7	24	16 *
X1812	Pioneer Hi-Bred Int., Inc.	15	12	10	12
X1813	Pioneer Hi-Bred Int., Inc.	18	8	5	10
3085	Pioneer Hi-Bred Int., Inc.	12	18	28	19 *

Table 5A-1. (Continued)

HYBRID	COMPANY	REP	REP	REP	MEAN
		I	II	III	%
		%	%	%	%
3245	Pioneer Hi-Bred Int., Inc.	25	25	25	25*
3394	Pioneer Hi-Bred Int., Inc.	18	28	12	19*
T-E 9586	Taylor-Evans Seed Co.	12	5	2	6
T-E 6994	Taylor-Evans Seed Co.	10	20	8	13
T-E 7081	Taylor-Evans Seed Co.	4	5	22	10
T-E 9106-X	Taylor-Evans Seed Co.	30	12	20	21 *
TERRA - TR 700E	TERRA INT., INC.	5	16	4	8
TERRA - TR 701E	TERRA INT., INC.	3	4	5	4
TERRA - TR 621E	TERRA INT., INC.	13	28	19	20 *
TERRA - TR 1160	TERRA INT., INC.	30	15	23	23 *
TERRA - TR 1167	TERRA INT., INC.	8	9	14	10
TS-777	TEXAS SEED CO.	5	4	8	6
92220Y	Tx. Agri. Exp. Stat.	23	10	3	12
91204Y	Tx. Agri. Exp. Stat.	5	15	17	12
92218Y	Tx. Agri. Exp. Stat.	5	8	11	8
91208Y	Tx. Agri. Exp. Stat.	7	6	5	6
91202Y	Tx. Agri. Exp. Stat.	6	5	5	5
92214Y	Tx. Agri. Exp. Stat.	27	12	30	23 *
CHECK-1 (P-3165)	Tx. Agri. Exp. Stat.	18	17	15	17 *

Readings were taken by Dr. R. A. Frederiksen and staff, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, Texas, on July 16th. According to Frederiksen, "those hybrids that have a "*" are probably more susceptible than they should be for this area. The disease was not uniform in the test, but those hybrids with high disease in any replication should be suscept."

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

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DK743	DEKALB Plant Genetics	1	200.3	6	116.4	-	-
DK689	DEKALB Plant Genetics	2	192.9	18	150.6	30	91.5
ORO EXP. 211	ORO Hybrids-R.C. Young Seed Co.	3	189.5	-	-	-	-
T-E 9106-X 3085	Taylor-Evans Seed Co. Pioneer Hi-Bred Int., Inc.	4	189.0	-	-	-	-
		5	178.1	8	113.5	1	126.6
KING'S 6154	DOUGLASS W. KING CO., INC.	6	182.6	14	108.5	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	7	180.6	20	104.9	5	111.9
ORO 270	ORO Hybrids-R.C. Young Seed Co.	8	179.9	-	-	-	-
X1813	Pioneer Hi-Bred Int., Inc.	9	179.0	-	-	-	-
T-E 9586	Taylor-Evans Seed Co.	10	178.8	17	106.3	32	91.0
HS 9843	HyPerformer Seed Co.	11	176.5	-	-	-	-
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	12	174.5	23	103.1	-	-
X1812	Pioneer Hi-Bred Int., Inc.	13	173.9	-	-	-	-
TERRA - TR700E	TERRA INT., INC.	14	172.9	-	-	-	-
GSC 4175	Gro Agri Seed Co.	15	171.9	-	-	-	-
F-3100	Frontier Hybrids, Inc.	16	171.0	-	-	-	-
T-E 6994	Taylor-Evans Seed Co.	17	170.4	-	-	-	-
8695	Delta and Pine Land Co.	18	169.2	-	-	-	-
HS 9977	HyPerformer Seed Co.	19	169.1	-	-	-	-
CHECK (3165)		20	168.6	9	113.4	34	88.5
3245	Pioneer Hi-Bred Int., Inc.	21	168.5	41	88.2	9	106.5
TERRA - TR621E	TERRA INT., INC.	22	168.2	-	-	-	-
92218Y	Tx. Agri. Exp. Stat.	23	167.5	-	-	-	-
X1811	Pioneer Hi-Bred Int., Inc.	24	167.3	-	-	-	-
4682	Delta and Pine Land Co.	25	167.0	-	-	-	-
91208Y	Tx. Agri. Exp. Stat.	26	166.1	-	-	-	-
GSC 4172	Gro Agri Seed Co.	27	165.6	11	109.9	2	120.9
GSC 4626	Gro Agri Seed Co.	28	165.6	-	-	-	-
WxC-330	GEORGE WARNER SEED CO.	29	165.4	-	-	-	-
NC+ 7507	NC+ Hybrids	30	164.8	3	121.8	51	74.7

Table 5B. Wharton, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 7304	NC+ Hybrids	31	164.3	27	102.0	-	-
GSC 4202	Gro Agri Seed Co.	32	163.9	-	-	-	-
7997	Cargill Hybrid Seeds	33	163.7	-	-	-	-
NC+ 6959	NC+ Hybrids	34	163.0	-	-	-	-
GSC 4195	Gro Agri Seed Co.	35	162.6	39	90.8	-	-
DK715	DEKALB Plant Genetics	36	160.5	15	108.4	58	68.2
8620	Delta and Pine Land Co.	37	160.5	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	38	160.4	-	-	-	-
TERRA - TR1160	TERRA INT., INC.	39	160.3	-	-	-	-
3394	Pioneer Hi-Bred Int., Inc.	40	159.3	-	-	-	-
G-4673B	Delta and Pine Land Co.	41	158.4	33	97.4	11	101.5
G-4666	Delta and Pine Land Co.	42	157.4	7	113.5	21	95.5
T-E 7081	Taylor-Evans Seed Co.	43	157.2	-	-	-	-
W-2170	GEORGE WARNER SEED CO.	44	154.6	-	-	-	-
91204Y	Tx. Agri. Exp. Stat.	45	153.8	13	108.9	-	-
TERRA - TR701E	TERRA INT., INC.	46	153.5	-	-	-	-
HS 9704	HyPerformer Seed Co.	47	153.5	35	96.4	-	-
HS 9911	HyPerformer Seed Co.	48	151.0	5	117.9	14	99.7
ICI/Sunbelt 1803	ICI Seeds (Garst Seed Co.)	49	150.4	-	-	-	-
92220Y	Tx. Agri. Exp. Stat.	50	150.0	-	-	-	-
92214Y	Tx. Agri. Exp. Stat.	51	149.4	-	-	-	-
N7816	Northrup King Co.	52	148.5	-	-	-	-
NC+ 6485	NC+ Hybrids	53	148.5	-	-	-	-
91202Y	Tx. Agri. Exp. Stat.	54	147.4	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	55	142.8	-	-	-	-
TS-777	TEXAS SEED CO., INC.	56	139.8	31	99.8	33	88.7
W-3266	GEORGE WARNER SEED CO.	57	139.2	-	-	22	93.2
N6873	Northrup King Co.	58	138.6	26	102.0	-	-
8427	Cargill Hybrid Seeds	59	137.3	28	101.6	57	69.6
W-2164	GEORGE WARNER SEED CO.	60	127.7	-	-	-	-

Table 5B. Wharton, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
8527	Cargill Hybrid Seeds	-	-	19	105.1	7	109.5
3170	Pioneer Hi-Bred Int., Inc.	-	-	24	102.5	8	108.3
Conlee 8850	Conlee Seed Co., Inc.	-	-	25	102.4	47	76.4
ICI/8250	ICI Seeds (Garst Seed Co.)	-	-	29	101.0	35	87.7
HS 9773	HyPerformer Seed Co.	-	-	30	100.1	26	92.3
Conlee 8631	Conlee Seed Co., Inc.	-	-	34	96.8	40	83.8
KING'S 5154	DOUGLASS W. KING CO., INC.	-	-	36	95.5	3	116.3
GSC 4715	Gro Agri Seed Co.	-	-	38	93.1	37	86.0
N8318	Northrup King Co.	-	-	40	88.8	60	67.1
ORO 190	ORO Hybrids-R.C. Young Seed Co.	-	-	45	80.4	39	84.3
GSC 2333	Gro Agri Seed Co.	-	-	46	78.3	16	97.6
KING'S 4154A	DOUGLASS W. KING CO., INC.	-	-	47	77.9	55	71.2
Number Entries:		60		50		67	
Test Mean Yield:			163.7		100.7		86.7

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

TABLE 6. AGRONOMIC AND TEST INFORMATION: COLLEGE STATION

TEST:	1992 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:	3-10-92
DATE THINNED:	4-10-92, thinned to seed company recommendations
PLOT LENGTH:	21'
FERTILIZER:	Applied 444 lb/A of 12-12-6 on April 13. Sidedress 280lb/A of 32-0-0 on April 28
HERBICIDE:	Applied 1.25 qt/A of Dual (metolachlor) + 2 qt/A of liquid AAtrex (atrazine) on March 23
INSECTICIDE:	Applied Counter 15G at label rate
RAINFALL:	March = 1.00", April = 4.20", May = 10.3", June = 6.40", July = 2.30", August = 0.7" Total = 24.9"
IRRIGATIONS:	1 irrigation on 6-19, of approximately 3.5"
DATE HARVESTED:	8-13-92 with a MF8 plot combine
SIZE HARVESTED PLOT:	2 rows - 21' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	40
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	24,158 plants/A
TEST MEAN:	170.8 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	6.4 %

GENERAL INFORMATION: Record yields were attained at this test site due to excellent growing conditions throughout the growing season. The season started with a full soil moisture profile from record rainfall during the winter months. A near-optimum planting date was secured and an excellent seedbed resulted in rapid seedling emergence. Optimum plant stands were attained after thinning. Timely rainfall in April, May, and June resulted in good plant growth and development. Only one irrigation was applied to the test block which insured proper grain fill.

The test mean yield was 170.8 bu/A compared to the past 10-year average of 134.7 bu/A. Seven hybrids produced between 181 and 196 bu/A. Good bushel weights were recorded as reflected in the following Table. Broken and lodged plants were not a problem. MDMV was observed, but the incidence was very low.

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

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 - TR700E	TERRA INT., INC.	Y	R	80	99	44	14.1	25203	99.6	58.1	196.7	A
ORO 188	ORO Hybrids-R.C. Young	Y	R	80	95	34	13.8	25929	99.2	57.6	193.2	A-B
T-E 9586	Taylor-Evans Seed Co.	Y	R	80	100	44	13.3	23440	99.1	56.9	187.6	A-C
GSC 4172	Gro Agri Seed Co.	Y	R	79	98	37	14.1	23025	99.5	58.0	186.7	A-D
3085	Pioneer Hi-Bred Int., Inc.	Y	W	82	100	43	14.9	21365	100.0	57.1	184.7	A-E
KING'S 6154	DOUGLASS W. KING CO., INC	Y	P	82	107	43	12.8	25825	100.0	57.8	184.7	A-E
3245	Pioneer Hi-Bred Int., Inc.	Y	P	77	97	34	13.4	21158	100.0	58.9	181.0	A-F
HS 9843	HyPerformer Seed Co.	Y	R	79	97	41	13.0	26344	100.0	58.1	179.7	A-F
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	79	100	36	12.5	21469	100.0	55.3	179.6	A-F
TERRA - TR1167	TERRA INT., INC.	Y	R	79	97	42	12.7	25825	99.6	57.4	179.3	A-G
92218Y	Tx. Agri. Exp. Stat.	Y	R	81	99	39	13.1	25825	99.6	56.2	178.7	A-G
TERRA - TR701E	TERRA INT., INC.	Y	R	77	93	34	13.8	24684	99.6	57.8	176.3	B-H
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	78	100	39	13.4	21884	99.5	57.2	175.2	B-H
7997	Cargill Hybrid Seeds	Y	R	77	100	37	12.8	23543	100.0	58.4	175.0	B-H
92212Y	Tx. Agri. Exp. Stat.	Y	R	81	96	39	13.2	24580	100.0	59.5	174.3	B-H
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	79	105	43	13.0	21676	98.6	58.0	173.3	C-H
4682	Delta and Pine Land Co.	Y	R	81	93	43	12.6	24788	99.6	54.8	172.7	C-H
91204Y	Tx. Agri. Exp. Stat.	Y	W	80	102	46	13.7	24166	100.0	57.4	172.6	C-H
ORO Exp. 211	ORO Hybrids-R.C. Young	Y	R	80	97	35	12.4	25306	100.0	56.9	172.5	C-H
HS 9905	HyPerformer Seed Co.	Y	R	78	91	36	13.7	25099	100.0	59.6	171.4	C-I
GSC 4195	Gro Agri Seed Co.	Y	R	77	93	32	13.5	26032	99.6	57.6	171.2	C-I
92216Y	Tx. Agri. Exp. Stat.	Y	R	80	101	40	13.7	25618	100.0	55.6	170.9	C-I
G-4666	Delta and Pine Land Co.	Y	R	78	100	38	13.1	24269	100.0	58.2	170.6	C-I
91208Y	Tx. Agri. Exp. Stat.	Y	R	80	102	40	12.8	25203	99.6	56.7	169.6	C-J
TERRA - TR621E	TERRA INT., INC.	Y	R	79	95	35	14.2	28522	98.9	57.2	169.0	C-J
HS 9911	HyPerformer Seed Co.	Y	R	78	98	38	13.0	23958	100.0	58.7	168.9	C-J
T-E 9106-X	Taylor-Evans Seed Co.	Y	R	79	98	38	12.2	23128	100.0	58.4	168.0	C-K
91202Y	Tx. Agri. Exp. Stat.	Y	R	80	99	38	12.8	23128	99.6	58.4	167.1	D-K
N7816	Northrup King Co.	Y	R	77	99	40	12.7	24580	100.0	57.2	167.0	D-K
G-4673B	Delta and Pine Land Co.	Y	R	79	99	39	13.1	25099	100.0	57.4	165.8	E-K

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

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+ 6959	NC+ Hybrids	Y	R	80	96	43	12.7	24995	100.0	57.0	164.0	F-K
NC+ 7304	NC+ Hybrids	Y	R	80	99	38	12.4	23440	100.0	58.9	163.1	F-K
NC+ 7507	NC+ Hybrids	Y	R	81	100	38	12.5	21262	98.5	57.5	162.1	F-K
NC+ 6485	NC+ Hybrids	Y	R	77	92	38	12.8	24062	100.0	58.0	159.4	G-K
3394	Pioneer Hi-Bred Int., Inc.	Y	R	77	93	38	12.4	21780	100.0	58.4	157.4	H-K
8427	Cargill Hybrid Seeds	Y	R	77	92	34	13.9	23958	99.6	58.4	156.5	H-K
NC+ 5963	NC+ Hybrids	Y	R	77	99	35	12.9	23854	99.6	58.8	151.9	I-L
TERRA - TR641E	TERRA INT., INC.	Y	R	77	91	32	13.3	25929	100.0	58.9	150.9	J-L
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	77	93	34	12.2	23025	100.0	51.8	149.0	K-L
92202Y	Tx. Agri. Exp. Stat.	Y	W	81	107	42	13.1	23336	97.8	56.6	138.7	L

Test Mean = 170.8 Test C. V. = 6.4 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.

* Commercial check hybrids were not entered in the test. Hybrids that are commonly used in the area were already entered by commercial companies.

** 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	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
TERRA - TR700E	TERRA INT., INC.	1	196.7	-	-	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	2	193.2	6	178.1	1	137.5
T-E 9586	Taylor-Evans Seed Co.	3	187.6	23	153.1	9	121.4
GSC 4172	Gro Agri Seed Co.	4	186.7	11	170.1	-	-
3085	Pioneer Hi-Bred Int., Inc.	5	184.7	2	186.7	23	114.5
KING'S 6154	DOUGLASS W. KING CO., INC.	6	184.7	1	189.3	-	-
3245	Pioneer Hi-Bred Int., Inc.	7	181.0	8	171.7	2	133.8
HS 9843	HyPerformer Seed Co.	8	179.7	-	-	-	-
X1812	Pioneer Hi-Bred Int., Inc.	9	179.6	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	10	179.3	-	-	-	-
92218Y	Tx. Agri. Exp. Stat.	11	178.7	-	-	-	-
TERRA - TR701E	TERRA INT., INC.	12	176.3	-	-	-	-
X1813	Pioneer Hi-Bred Int., Inc.	13	175.2	-	-	-	-
7997	Cargill Hybrid Seeds	14	175.0	17	164.3	-	-
92212Y	Tx. Agri. Exp. Stat.	15	174.3	-	-	-	-
X1811	Pioneer Hi-Bred Int., Inc.	16	173.3	-	-	-	-
4682	Delta and Pine Land Co.	17	172.7	-	-	-	-
91204Y	Tx. Agri. Exp. Stat.	18	172.6	31	139.5	-	-
ORO 166	ORO Hybrids-R.C. Young Seed Co.	19	172.5	-	-	-	-
HS 9905	HyPerformer Seed Co.	20	171.4	-	-	-	-
GSC 4195	Gro Agri Seed Co.	21	171.2	-	-	-	-
92216Y	Tx. Agri. Exp. Stat.	22	170.9	-	-	-	-
G-4666	Delta and Pine Land Co.	23	170.6	12	168.3	11	119.5
91208Y	Tx. Agri. Exp. Stat.	24	169.6	-	-	-	-
TERRA - TR621E	TERRA INT., INC.	25	169.0	-	-	-	-
HS 9911	HyPerformer Seed Co.	26	168.9	-	-	-	-
T-E 9106-X	Taylor-Evans Seed Co.	27	168.0	-	-	-	-
91202Y	Tx. Agri. Exp. Stat.	28	167.1	24	150.3	-	-
N7816	Northrup King Co.	29	167.0	-	-	-	-
G-4673B	Delta and Pine Land Co.	30	165.8	27	148.5	10	120.4

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

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 6959	NC+ Hybrids	31	164.0	-	-	-	-
NC+ 7304	NC+ Hybrids	32	163.1	15	164.9	-	-
NC+ 7507	NC+ Hybrids	33	162.1	-	-	-	-
NC+ 6485	NC+ Hybrids	34	159.4	-	-	-	-
3394	Pioneer Hi-Bred Int., Inc.	35	157.4	-	-	-	-
8427	Cargill Hybrid Seeds	36	156.4	-	-	17	116.7
NC+ 5963	NC+ Hybrids	37	151.9	-	-	-	-
TERRA - TR641E	TERRA INT., INC.	38	150.9	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	39	149.0	-	-	-	-
92202Y	Tx. Agri. Exp. Stat.	40	138.7	-	-	-	-
KING'S 5154	DOUGLASS W. KING CO., INC.	-	-	5	179.5	46	96.2
3170	Pioneer Hi-Bred Int., Inc.	-	-	7	171.8	5	127.8
3165	Pioneer Hi-Bred Int., Inc.	-	-	9	171.2	3	133.6
DK689	DEKALB Plant Genetics	-	-	18	159.7	40	100.4
9027	Cargill Hybrid Seeds	-	-	19	157.3	7	122.5
KING'S 4154A	DOUGLASS W. KING CO., INC.	-	-	22	156.1	25	111.5
Conlee 8850	Conlee Seed Co., Inc.	-	-	28	145.8	13	119.0
ORO 180	ORO Hybrids-R.C. Young Seed Co.	-	-	34	134.0	34	107.1
Number Entries:		40		35		50	
Test Mean Yield:			170.8		159.9		111.8

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

TABLE 7. AGRONOMIC AND TEST INFORMATION: THRALL

TEST:	1992 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:	3-13-92, hand dropped behind a JD 7300 Max-Emerge 2 planter
DATE THINNED:	4-13-92, thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	120-0-0: Applied post-plant, shanked in both side of row
HERBICIDE:	Broadcast 3 qt/A Lariat (Lasso + Atrazine) and 1 pt/A Roundup, pre-emerge
INSECTICIDE:	6.9 lb/A of Counter 15G (terbufos) at planting
RAINFALL:	March = 3.08", April = 1.64", May = 8.62", June = 5.29", July = 0.58", August = .67" Total = 19.88"
IRRIGATIONS:	None
DATE HARVESTED:	8-6-92 with MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows - 25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	40
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	21,377 plants/A
TEST MEAN:	153.8 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	5.9%

GENERAL INFORMATION: Abundant rainfall, excellent growing conditions, and a good fertility program were contributing factors resulting in outstanding yields at this Southern Blackland test site in Texas. The season started with a full soil moisture profile from above normal fall and winter rainfall. Wet soil conditions delayed the optimum planting date approximately two weeks. Excellent plant stands were secured after thinning and rapid plant growth and development resulted from an application of fertilizer and continuous rainfall. Due to wet soil conditions and rapid plant growth, the test block was not cultivated. Weeds were controlled by a pre-emerge applied herbicide. Timely rainfall during the tassel-silk stage insured grain fill and contributed to final yields.

The test mean yield was 153.8 bu/A compared to the record test mean yield of 166.0 bu/A in 1991. Eleven hybrids produced over 160 bu/A. Excellent bushel weights were recorded as presented in the following Table. The incidence of plant diseases were minimal.

Table 7A. CORN PERFORMANCE TEST; THRALL, TEXAS 1992

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								
ORO 188	ORO Hybrids-R.C. Young	Y	R	73	100	40	13.7	23729	99.7	59.4	168.5	A	
Rx897	ASGROW SEED CO.	Y	R	73	97	40	12.7	23523	100.0	60.8	167.3	A-B	
T-E 9586	Taylor-Evans Seed Co.	Y	R	74	97	36	13.4	22766	98.8	57.8	166.9	A-B	
T-E 2908-X	Taylor-Evans Seed Co.	Y	R	75	97	37	12.9	23798	99.7	59.4	166.3	A-C	
HS 9843	HyPerformer Seed Co.	Y	R	73	101	37	12.8	23248	100.0	56.6	165.6	A-D	
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	74	100	37	12.2	20153	100.0	56.2	162.7	A-E	
91204Y	Tx. Agri. Exp. Stat.	Y	W	73	102	37	13.8	20978	98.7	57.5	162.6	A-E	
DK743	DEKALB Plant Genetics	Y	P	72	107	36	14.3	21253	100.0	57.5	161.6	A-E	
T-E 9106-X	Taylor-Evans Seed Co.	Y	R	74	101	33	12.1	22973	100.0	56.8	161.4	A-E	
3170	Pioneer Hi-Bred Int., Inc.	Y	R	73	101	38	12.3	19877	100.0	55.9	160.5	A-F	
ORO Exp. 211	ORO Hybrids-R.C. Young	Y	R	73	98	33	12.2	22973	100.0	58.4	160.4	A-F	
Rx899	ASGROW SEED CO.	Y	R	73	98	39	12.6	21941	100.0	58.6	159.6	A-F	
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	73	98	35	12.7	19396	99.6	58.3	159.1	A-G	
DK689	DEKALB Plant Genetics	Y	P	75	99	40	12.0	22354	100.0	55.2	157.9	A-G	
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	75	99	35	11.8	20565	99.7	56.2	157.2	A-G	
7997	Cargill Hybrid Seeds	Y	R	70	104	36	12.0	22422	99.7	54.5	155.7	A-H	
GC 06368	Germain's Seed Inc.	Y	R	73	105	35	12.6	22560	99.7	57.3	155.4	A-H	
84202Y	Tx. Agri. Exp. Stat.	Y	R	76	107	49	13.3	22354	97.5	56.0	154.9	A-I	
GSC 4195	Gro Agri Seed Co.	Y	R	69	92	30	13.1	23523	99.7	55.9	154.7	A-I	
3279	Pioneer Hi-Bred Int., Inc.	Y	R	71	99	31	12.5	18502	99.6	57.7	154.1	A-J	
3245	Pioneer Hi-Bred Int., Inc.	Y	R	73	101	32	12.5	19190	99.6	59.0	154.1	A-J	
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	74	108	37	12.0	18639	100.0	56.0	153.7	A-J	
F-3100	Frontier Hybrids, Inc.	Y	R	74	97	38	12.4	22354	99.4	54.5	152.9	A-J	
HS 9911	HyPerformer Seed Co.	Y	R	72	94	35	12.6	22422	100.0	57.8	152.9	A-J	
G-4666	Delta and Pine Land Co.	Y	R	73	104	37	12.2	19465	100.0	57.8	151.7	B-K	
92206Y	Tx. Agri. Exp. Stat.	Y	W	76	106	45	14.0	21253	99.4	55.5	151.6	B-K	
Rx811	ASGROW SEED CO.	Y	R	70	100	34	12.4	21528	99.4	56.5	150.8	C-K	
X1616	Pioneer Hi-Bred Int., Inc.	Y	P	71	96	34	12.5	19877	100.0	57.0	150.4	C-K	
N7816	Northrup King Co.	Y	R	71	99	38	12.2	21391	100.0	55.1	150.2	D-K	
GSC 4172	Gro Agri Seed Co.	Y	R	74	98	40	12.9	21941	99.1	57.2	150.1	D-K	

Table 7A. CORN PERFORMANCE TEST; THRALL, TEXAS 1992

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.
				To 50% Silk								Sig., 0.05 ****
3394	Pioneer Hi-Bred Int., Inc.	Y	R	70	97	35	12.0	18777	99.6	56.1	150.0	D-K
DK715	DEKALB Plant Genetics	Y	P	71	101	35	12.2	20290	99.3	53.1	148.0	E-K
KING'S 6154	DOUGLASS W. KING CO., INC.	Y	R	77	105	43	12.5	23454	97.4	55.4	144.7	F-K
8427	Cargill Hybrid Seeds	Y	R	70	96	32	12.8	20978	100.0	58.3	143.4	G-K
4682	Delta and Pine Land Co.	Y	R	76	97	38	11.2	19190	100.0	53.6	140.2	H-K
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	70	98	36	11.4	20539	100.0	54.0	140.0	H-K
91210Y	Tx. Agri. Exp. Stat.	Y	W	76	107	41	13.3	22354	98.8	57.6	139.5	I-K
G-4673B	Delta and Pine Land Co.	Y	R	72	99	34	12.6	19258	99.6	57.3	139.1	I-K
90211W	Tx. Agri. Exp. Stat.	W	W	71	97	35	12.7	20634	99.0	52.4	138.3	J-K
91202Y	Tx. Agri. Exp. Stat.	Y	R	73	99	36	11.8	21253	99.7	54.7	136.9	K

Test Mean = 153.8 TEST C. V. = 5.9 LSD .05 = 12.8

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.

* Commercial Check hybrids were not entered in the test. Hybrids that are commonly used in this area were already entered by commercial companies.

** 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	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ORO 188	ORO Hybrids-R.C. Young Seed Co.	1	168.5	8	176.5	40	34.2
Rx 897	ASGROW SEED CO.	2	167.3	-	-	-	-
T-E 9586	Taylor-Evans Seed Co.	3	166.9	-	-	-	-
T-E 2908-X	Taylor-Evans Seed Co.	4	166.3	-	-	-	-
HS 9843	HyPerformer Seed Co.	5	165.6	-	-	-	-
X1812	Pioneer Hi-Bred Int., Inc.	6	162.7	-	-	-	-
91204Y	Tx. Agri. Exp. Stat.	7	162.6	-	-	-	-
DK743	DEKALB Plant Genetics	8	161.6	1	192.9	-	-
T-E 9106-X	Taylor-Evans Seed Co.	9	161.4	-	-	-	-
3170	Pioneer Hi-Bred Int., Inc.	10	160.5	3	187.1	22	43.2
ORO EXP. 211	ORO Hybrids-R.C. Young Seed Co.	11	160.4	-	-	-	-
Rx 899	ASGROW SEED CO.	12	159.6	15	170.5	-	-
X1813	Pioneer Hi-Bred Int., Inc.	13	159.1	-	-	-	-
DK689	DEKALB Plant Genetics	14	157.9	19	167.2	49	26.5
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	15	157.2	9	176.0	-	-
7997	Cargill Hybrid Seeds	16	155.7	14	170.8	-	-
GC 06368	Germain's Seed Inc.	17	155.4	-	-	-	-
84202Y	Tx. Agri. Exp. Stat.	18	154.9	-	-	47	28.8
GSC 4195	Gro Agri Seed Co.	19	154.7	-	-	-	-
3279	Pioneer Hi-Bred Int., Inc.	20	154.1	-	-	-	-
3245	Pioneer Hi-Bred Int., Inc.	21	154.1	2	191.4	11	47.0
X1811	Pioneer Hi-Bred Int., Inc.	22	153.7	-	-	-	-
F-3100	Frontier Hybrids, Inc.	23	152.9	-	-	-	-
HS 9911	HyPerformer Seed Co.	24	152.9	18	167.4	41	33.8
G-4666	Delta and Pine Land Co.	25	151.7	25	162.7	19	44.4
92206Y	Tx. Agri. Exp. Stat.	26	151.6	-	-	-	-
Rx 811	ASGROW SEED CO.	27	150.8	-	-	-	-
X1616	Pioneer Hi-Bred Int., Inc.	28	150.4	-	-	-	-
N7816	Northrup King Co.	29	150.2	-	-	-	-
GSC 4172	Gro Agri Seed Co.	30	150.1	12	173.3	35	35.7

Table 7B. Thrall, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3394	Pioneer Hi-Bred Int., Inc.	31	150.0	-	-	-	-
DK715	DEKALB Plant Genetics	32	148.0	13	172.5	29	41.7
KING'S 6154	DOUGLASS W. KING CO., INC.	33	144.7	-	-	-	-
8427	Cargill Hybrid Seeds	34	143.4	-	-	-	-
4682	Delta and Pine Land Co.	35	140.2	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	36	140.0	-	-	-	-
91210Y	Tx. Agri. Exp. Stat.	37	139.5	-	-	-	-
G-4673B	Delta and Pine Land Co.	38	139.1	10	173.6	3	54.0
90211W	Tx. Agri. Exp. Stat.	39	138.3	-	-	-	-
91202Y	Tx. Agri. Exp. Stat.	40	136.9	-	-	-	-
3085	Pioneer Hi-Bred Int., Inc.	-	-	4	183.4	54	19.2
NC+ 7507	NC+ Hybrids	-	-	7	176.8	20	43.8
GSC 2333	Gro Agri Seed Co.	-	-	21	165.5	32	39.0
HS 9663	HyPerformer Seed Co.	-	-	22	165.4	23	43.1
T-E 6996	Taylor-Evans Seed Co.	-	-	24	163.8	15	44.9
N8318	Northrup King Co.	-	-	26	162.6	16	44.7
KING'S 4154A	DOUGLASS W. KING CO., INC.	-	-	27	162.4	25	42.7
9027	Cargill Hybrid Seeds	-	-	29	159.7	9	47.5
3165	Pioneer Hi-Bred Int., Inc.	-	-	32	155.5	55	18.7
HS 9773	HyPerformer Seed Co.	-	-	33	155.5	33	38.8
Conlee 8850	Conlee Seed Co., Inc.	-	-	35	153.0	37	35.1
F-3038	Frontier Hybrids, Inc.	-	-	36	150.2	31	40.5
Number Entries:		40		40		57	
Test Mean Yield:			153.8		166.0		38.5

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

TABLE 8.

AGRONOMIC AND TEST INFORMATION: BARDWELL

TEST:	1992 Dryland Corn Performance Test
LOCATION:	Bob Beakley Farm, Bardwell, Texas
COOPERATORS:	Bob Beakley, Dennis Pietsch, A.J. Bockholt, Randy Gaas, Leon Synatschk, Cloyce Coffman, and Gary Stanford
SOIL TYPE:	Houston black clay
ROW WIDTH:	36"
PREVIOUS CROP:	Cotton
LAND PREPARATION:	Disked twice
DATE PLANTED:	3-17-92; hand dropped behind a JD 7100 Max-Emerge 2 planter
DATE THINNED:	4-21-92; thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	Applied 120 lb/A of 10-34-0 at planting, 120 lb/A of 32-0-0 at planting, 200 lb/A of 32-0-0 sidedress
HERBICIDE:	Applied 1.5 pt/A of AAtrex (atrazine) pre-emerge
INSECTICIDE:	5.0 lb/A Counter (terbufos) at planting on 18" band
RAINFALL:	Excessive rainfall was recorded from October thru harvest
IRRIGATIONS:	None
DATE HARVESTED:	8-20-92 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.:	21,106 plants/A
TEST MEAN:	142.8 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	6.9 percent

GENERAL INFORMATION: This test site is representative of conditions in the Central Blacklands of Texas which is considered a major corn producing area. According to preliminary figures, this region harvested approximately 300,000 acres of corn in 1992 or 20.7% of the States' total acreage.

Conditions were not favorable for maximum corn production in this area. Extended periods of rainfall from December through March delayed the optimum planting date approximately three weeks. Continued heavy rainfall during the early part of the growing season hampered normal root development and delayed early plant growth and development. The test block was planted in a well-drained area of the field which may have influenced final yields. Although yields in the test may have been higher than those in the surrounding area it does reflect the potential of corn production under above normal moisture conditions.

The test mean yield was 142.8 bu/A compared to 147.0 bu/A in 1991. Twelve hybrids in the test produced over 150 bu/A. The incidence of lodging was very low. Excellent bushel weights were recorded as reflected in the following Table.

Table 8A. CORN PERFORMANCE TEST; BARDWELL, TEXAS 1992

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								
3245	Pioneer Hi-Bred Int., Inc.	Y	R	76	108	34	13.2	19602	100.0	58.3	163.1	A	
T-E 9586	Taylor-Evans Seed Co.	Y	R	82	109	44	13.6	22651	90.4	56.8	157.4	A-B	
T-E 2908-X	Taylor-Evans Seed Co.	Y	R	81	104	41	13.0	23740	98.8	57.0	156.6	A-C	
3170	Pioneer Hi-Bred Int., Inc.	Y	R	77	106	39	13.0	19965	97.1	55.5	155.8	A-D	
X1812	Pioneer Hi-Bred Int. Inc.	Y	R	79	105	34	12.4	19747	99.6	56.6	154.5	A-E	
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	80	114	40	12.7	18077	96.0	57.7	154.0	A-F	
HS 9843	HyPerformer Seed Co.	Y	R	79	104	45	12.7	22361	100.0	56.2	153.6	A-F	
T-E 9106-X	Taylor-Evans Seed Co.	Y	R	81	107	42	12.5	23087	95.0	57.7	153.4	A-F	
ORO 188	ORO Hybrids-R.C. Young	Y	R	81	103	41	13.4	24031	94.0	57.8	152.4	A-G	
DK689	DEKALB Plant Genetics	Y	P	82	110	44	12.7	21998	92.7	56.4	151.3	A-H	
7997	Cargill Hybrid Seeds	Y	R	76	107	35	12.6	22143	98.7	54.9	151.1	A-H	
DK743	DEKALB Plant Genetics	Y	P	77	114	41	15.5	22869	94.0	56.0	150.9	A-I	
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	81	106	46	13.1	20546	96.1	56.8	149.8	A-J	
NC+ 7507	NC+ Hybrids	Y	R	80	108	48	12.5	21054	94.1	55.7	149.0	A-J	
GSC 4172	Gro Agri Seed Co.	Y	R	80	104	45	13.3	21998	90.8	56.1	147.9	A-K	
NC+ 6959	NC+ Hybrids	Y	R	80	106	46	12.7	21562	99.0	56.6	147.8	A-K	
8695	Delta and Pine Land Co.	Y	R	79	108	47	13.5	19965	98.5	55.8	147.4	A-K	
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	78	104	40	13.0	18295	99.2	57.9	145.6	B-L	
N7816	Northrup King Co.	Y	R	77	107	38	12.6	21127	100.0	59.0	144.0	B-M	
T-E 7081	Taylor-Evans Seed Co.	Y	R	77	102	35	13.5	22869	97.5	57.8	143.9	B-M	
NC+ 7304	NC+ Hybrids	Y	R	81	102	40	12.9	20401	99.6	56.9	143.8	B-M	
HS 9704	HyPerformer Seed Co.	Y	R	78	103	39	12.8	22796	99.7	55.7	143.5	B-M	
Rx899	ASGROW SEED CO.	Y	R	80	103	42	12.8	21490	99.3	56.9	141.6	B-N	
Rx911	ASGROW SEED CO.	Y	R	80	107	40	12.9	22579	99.7	57.0	141.2	B-N	
CHECK	Tx. Agri. Exp. Stat.	Y	R	76	104	39	14.7	20255	98.6	56.6	140.6	B-N	
GSC 4192	Gro Agri Seed Co.	Y	R	74	96	31	12.9	23305	99.4	56.7	139.9	C-N	
3279	Pioneer Hi-Bred Int., Inc.	Y	R	74	103	35	12.5	17351	98.7	57.1	139.9	C-N	
91202Y	Tx. Agri. Exp. Stat.	Y	R	79	108	46	13.2	21490	96.6	55.6	138.8	D-N	
91208Y	Tx. Agri. Exp. Stat.	Y	R	75	110	46	13.4	21417	95.9	56.1	138.7	D-N	
8427	Cargill Hybrid Seeds	Y	R	76	99	30	14.3	22288	92.8	57.4	138.7	D-N	

Table 8A. CORN PERFORMANCE TEST; BARDWELL, TEXAS 1992

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 ****
ORO 270	ORO Hybrids-R.C. Young	Y	R	81	103	40	15.0	24539	91.4	58.7	138.6	D-N
GC 06368	Germain's Seed Inc.	Y	R	77	107	37	13.5	20618	96.8	56.5	138.4	D-N
92212Y	Tx. Agri. Exp. Stat.	Y	W	80	99	39	13.2	21344	93.2	56.4	137.8	E-N
X1616	Pioneer Hi-Bred Int., Inc.	Y	P	75	101	35	12.6	18368	100.0	56.8	137.8	E-N
91210Y	Tx. Agri. Exp. Stat.	Y	W	82	117	52	14.1	22579	91.3	57.5	136.8	F-N
N6330	Northrup King Co.	Y	R	73	97	31	12.0	20909	99.7	54.3	135.1	G-N
92216Y	Tx. Agri. Exp. Stat.	Y	R	79	105	40	13.8	20038	97.5	56.5	134.2	H-N
92210Y	Tx. Agri. Exp. Stat.	Y	W	79	112	42	12.8	22070	95.7	56.5	134.1	H-N
NC+ 6485	NC+ Hybrids	Y	R	76	104	37	13.1	20909	97.9	57.5	133.5	I-N
3394	Pioneer Hi-Bred Int., Inc.	Y	R	73	98	35	12.4	17860	100.0	56.7	133.1	J-N
HS 9911	HyPerformer Seed Co.	Y	R	79	104	36	12.7	22433	99.0	57.8	132.7	J-N
NC+ 5963	NC+ Hybrids	Y	R	75	99	35	12.9	21199	99.0	56.1	130.6	K-N
G-4673B	Delta and Pine Land Co.	Y	R	78	106	42	12.7	18949	97.3	55.9	129.0	L-N
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	75	97	34	12.2	18658	98.8	53.2	127.8	M-N
8620	Delta and Pine Land Co.	Y	R	73	96	30	13.3	19384	98.1	57.2	125.9	N
G-4666	Delta and Pine Land Co.	Y	R	79	107	37	12.9	19965	99.6	57.3	125.8	N

Test Mean = 142.8 Test C. V. = 6.9 LSD .05 = 13.8

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 DK711 was entered as a commercial check hybrid at our discretion. It 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 8B. Three-year summary, Corn Performance Test, Bardwell, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3245	Pioneer Hi-Bred Int., Inc.	1	163.1	6	157.5	2	84.7
T-E 9586	Taylor-Evans Seed Co.	2	157.4	15	150.7	-	-
T-E 2908-X	Taylor-Evans Seed Co.	3	156.6	-	-	-	-
3170	Pioneer Hi-Bred Int., Inc.	4	155.8	10	155.0	16	70.2
X1812	Pioneer Hi-Bred Int., Inc.	5	154.5	-	-	-	-
X1811	Pioneer Hi-Bred Int., Inc.	6	154.0	-	-	-	-
HS 9843	HyPerformer Seed Co.	7	153.6	-	-	-	-
T-E 9106-X	Taylor-Evans Seed Co.	8	153.4	-	-	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	9	152.4	2	164.1	14	71.4
DK689	DEKALB Plant Genetics	10	151.3	36	138.5	24	67.2
7997	Cargill Hybrid Seeds	11	151.1	1	164.4	-	-
DK743	DEKALB Plant Genetics	12	150.9	13	153.7	-	-
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	13	149.8	4	158.6	-	-
NC+ 7507	NC+ Hybrids	14	149.0	-	-	-	-
GSC 4172	Gro Agri Seed Co.	15	147.9	23	145.6	-	-
NC+ 6959	NC+ Hybrids	16	147.8	-	-	-	-
8695	Delta and Pine Land Co.	17	147.4	-	-	-	-
X1813	Pioneer Hi-Bred Int., Inc.	18	145.6	-	-	-	-
N7816	Northrup King Co.	19	144.0	-	-	15	70.3
T-E 7081	Taylor-Evans Seed Co.	20	143.9	26	143.6	4	82.9
NC+ 7304	NC+ Hybrids	21	143.8	12	154.7	-	-
HS 9704	HyPerformer Seed Co.	22	143.5	21	147.2	-	-
Rx 899	ASGROW SEED CO.	23	141.6	3	161.2	-	-
Rx 911	ASGROW SEED CO.	24	141.2	-	-	-	-
CHECK (DK711)		25	140.6	-	-	41	56.3
GSC 4192	Gro Agri Seed Co.	26	139.9	32	140.2	36	59.9
3279	Pioneer Hi-Bred Int., Inc.	27	139.9	-	-	-	-
91202Y	Tx. Agri. Exp. Stat.	28	138.8	19	147.5	-	-
91208Y	Tx. Agri. Exp. Stat.	29	138.7	-	-	-	-
8427	Cargill Hybrid Seeds	30	138.7	-	-	32	64.9

Table 8B. Bardwell, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
ORO 270	ORO Hybrids-R.C. Young Seed Co.	31	138.6	-	-	-	-
GC 06368	Germain's Seed Inc.	32	138.4	-	-	-	-
92212Y	Tx. Agri. Exp. Stat.	33	137.8	-	-	-	-
X1616	Pioneer Hi-Bred Int., Inc.	34	137.8	-	-	-	-
91210Y	Tx. Agri. Exp. Stat.	35	136.8	41	133.0	-	-
N6330	Northrup King Co.	36	135.1	-	-	-	-
92216Y	Tx. Agri. Exp. Stat.	37	134.2	-	-	-	-
92210Y	Tx. Agri. Exp. Stat.	38	134.1	-	-	-	-
NC+ 6485	NC+ Hybrids	39	133.5	-	-	-	-
3394	Pioneer Hi-Bred Int., Inc.	40	133.1	-	-	-	-
HS 9911	HyPerformer Seed Co.	41	132.7	-	-	18	69.7
NC+ 5963	NC+ Hybrids	42	130.6	38	134.1	-	-
G-4673B	Delta and Pine Land Co.	43	129.0	11	155.0	13	71.9
X1612	Pioneer Hi-Bred Int., Inc.	44	127.8	-	-	-	-
8620	Delta and Pine Land Co.	45	125.9	-	-	-	-
G-4666	Delta and Pine Land Co.	46	125.8	35	138.7	19	69.0
ORO 188	ORO Hybrids-R.C. Young Seed Co.	-	-	5	157.8	29	65.8
3165	Pioneer Hi-Bred Int., Inc.	-	-	14	152.0	1	91.7
9027	Cargill Hybrid Seeds	-	-	17	149.4	10	75.3
NC+ 6414	NC+ Hybrids	-	-	18	148.6	27	66.9
3085	Pioneer Hi-Bred Int., Inc.	-	-	20	147.4	31	64.9
GSC 2333	Gro Agri Seed Co.	-	-	27	142.7	35	61.8
Conlee 8850	Conlee Seed Co., Inc.	-	-	31	140.8	49	48.9
HS 9773	HyPerformer Seed Co.	-	-	33	139.5	11	73.4
G-4513	Delta and Pine Land Co.	-	-	42	131.8	47	53.0
Number Entries:		46		42		52	
Test Mean Yield:			142.8		147.0		65.8

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

TABLE 9.

AGRONOMIC AND TEST INFORMATION: MCKINNEY

TEST:	1992 Dryland Corn Performance Test
LOCATION:	Johnny Standerfer Farm
COOPERATORS:	Johnny Standerfer, Ken White, Dennis Pietsch, Randy Gaas, Leon Synatschk and Cloyce Coffman
SOIL TYPE:	Houston black clay
ROW WIDTH:	30"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Disked (2), field cultivated
DATE PLANTED:	3-21-92, hand-dropped through a JD Max-Emerge 2 planter
DATE THINNED:	4-22-92, thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	100 lb/A of 10-34-0 + 1 Qt of Zn at planting, sidedress 100 lb of 82-0-0 + 100 lb of 32-0-0
HERBICIDE:	1 Qt/A of Atrazine 4L pre-emerge
INSECTICIDE:	6 lb of Thimet 15G at planting
RAINFALL:	Jan.=4.28", Feb.=2.83", March=4.60", April=1.58", May = 6.69"; June = 4.50"; July = 3.59"; August = .46"; Total = 28.53"
IRRIGATIONS:	None
DATE HARVESTED:	8-20-92 with MF 8 plot combine
SIZE HARVESTED PLOT:	2 rows, 25 feet long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	40
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	20,606 plants/A
TEST MEAN:	122.0 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	8.4 percent

GENERAL INFORMATION: Good plant stands, and ample moisture were contributing factors resulting in excellent yields at this test site. Although yields at this site did not attain the level they did last year, it still indicates the potential of corn in this area.

Record rainfall was recorded from November to March thus reducing field operations, but recharging the soil profile for this year. The test block was planted on March 21 which is approximately two weeks later than the optimum planting date. Seedling emergence was rapid and plant stands secured after thinning were good with the mean plant population being 20,600 plants per acre. Timely rainfall contributed to continued plant growth and development. Johnsongrass was a problem in the test but was controlled by hand-hoeing.

The test mean yield was 122.0 bu/A compared to last years record of 157.5 bu/A. Plant lodging was minimal as reflected in the following Table. Bushel weights were good with the range being from 52.7 lb/bu to 60.1 lb/bu.

Table 9A. CORN PERFORMANCE TEST; MCKINNEY, TEXAS 1992

Hybrid *	Company Or Brand Name	Grain Color **	Cob Color ***	Days			Mois- ture %	Plant		Test Weight lb/bu	Yield bu/A	Stat. Sig., 0.05 ****
				To 50% Silk	Plant Height Inches	Ear Height Inches		Pop. Per Acre	% Erect Plants			
HS 9843	HyPerformer Seed Co.	Y	R	82	100	41	13.7	22913	100.0	55.3	144.8	A
DK743	DEKALB Plant Genetics	Y	P	82	102	39	16.5	21867	97.6	53.9	141.1	A-B
7997	Cargill Hybrid Seeds	Y	R	80	104	35	13.0	24306	98.9	52.7	140.0	A-C
8427	Cargill Hybrid Seeds	Y	R	79	97	32	14.2	22128	100.0	56.1	134.9	A-D
TERRA - TR1167	TERRA INT., INC.	Y	R	82	99	41	13.7	24219	99.6	53.9	132.9	A-E
T-E 9586	Taylor-Evans Seed Co.	Y	R	84	103	41	15.5	22303	93.8	54.3	132.0	A-F
TERRA - TR700E	TERRA INT., INC.	Y	R	82	101	38	14.7	22216	95.3	53.3	131.7	A-G
X1812	Pioneer Hi-Bred Int., Inc.	Y	R	82	99	35	12.7	19341	99.1	53.2	131.0	A-G
X1813	Pioneer Hi-Bred Int., Inc.	Y	R	81	104	40	14.6	18208	98.6	56.7	129.8	A-H
TERRA - TR641E	TERRA INT., INC.	Y	R	79	94	32	14.7	23261	98.9	56.6	128.9	A-I
HS 9704	HyPerformer Seed Co.	Y	R	82	96	38	13.2	21693	98.4	54.8	126.6	B-J
ORO 188	ORO Hybrids-R.C. Young	Y	R	83	99	40	15.0	22738	95.4	55.1	126.1	B-K
TERRA - TR1160	TERRA INT., INC.	Y	R	80	103	38	13.7	22128	98.0	56.3	125.5	B-L
Rx899	ASGROW SEED CO.	Y	R	83	98	36	14.3	22564	100.0	53.7	125.0	B-M
91204Y	Tx. Agri. Exp. Stat.	Y	R	84	104	46	15.8	20647	95.8	50.7	124.5	B-N
SG-8519	Garrison & Townsend, Inc.	Y	R	83	96	35	14.9	20647	98.3	55.3	124.2	B-N
Rx897	ASGROW SEED CO.	Y	R	83	99	40	13.8	21867	100.0	55.4	124.0	B-N
CHECK	Tx. Agri. Exp. Stat.	Y	R	84	92	36	16.6	18818	97.7	54.0	123.0	C-N
G-4673B	Delta and Pine Land Co.	Y	R	82	102	36	14.8	20735	99.6	56.0	122.7	C-N
CHECK	Tx. Agri. Exp. Stat.	*	*	79	96	32	14.6	21519	99.2	53.6	122.5	C-N
3170	Pioneer Hi-Bred Int., Inc.	Y	P	81	101	35	14.1	18382	97.6	55.9	121.7	D-N
3279	Pioneer Hi-Bred Int., Inc.	Y	R	80	98	35	12.1	19341	100.0	55.2	121.0	D-N
TERRA - TR621E	TERRA INT., INC.	Y	R	82	97	33	14.8	20822	100.0	56.0	120.6	D-N
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	Y	R	84	101	41	14.7	18382	99.1	53.8	119.8	D-N
CHECK	Tx. Agri. Exp. Stat.	Y	R	83	99	37	15.0	19254	99.1	54.5	119.2	D-N
3245	Pioneer Hi-Bred Int., Inc.	Y	P	82	101	31	13.1	17424	98.5	60.1	118.3	D-N
T-E 7081	Taylor-Evans Seed Co.	Y	W	81	100	36	15.0	22477	98.1	57.4	117.3	D-N
91202Y	Tx. Agri. Exp. Stat.	Y	R	85	102	40	15.1	22651	98.1	51.0	116.9	E-N
N7816	Northrup King Co.	Y	R	81	98	36	14.5	21432	98.8	54.8	115.3	E-N
90211W	Tx. Agri. Exp. Stat.	W	W	82	96	41	14.2	22041	98.0	53.5	115.0	E-N

Table 9A. CORN PERFORMANCE TEST; MCKINNEY, TEXAS 1992

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 ****
Rx811	ASGROW SEED CO.	Y	R	81	102	33	12.7	21257	98.0	57.5	114.0	F-N
3394	Pioneer Hi-Bred Int., Inc.	Y	R	79	98	35	11.7	17860	100.0	55.9	114.0	G-N
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	79	99	32	11.6	18644	99.1	54.6	112.8	H-N
91208Y	Tx. Agri. Exp. Stat.	Y	R	86	104	40	15.7	23000	98.9	51.7	111.1	I-N
4581	Delta and Pine Land Co.	Y	R	82	95	35	14.1	17511	99.0	56.6	110.4	J-N
G-4513	Delta and Pine Land Co.	Y	R	80	98	31	14.4	18644	100.0	57.5	110.1	J-N
SG-8440A	Garrison & Townsend, Inc.	Y	R	82	99	38	14.2	17947	98.5	56.4	108.2	K-N
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	83	101	37	12.6	17511	93.5	58.2	107.8	L-N
SG-8515	Garrison & Townsend, Inc.	Y	R	80	99	35	14.1	19515	99.6	55.9	107.0	M-N
X1616	Pioneer Hi-Bred Int., Inc.	Y	P	80	96	35	12.2	16030	100.0	54.2	106.6	N

Test Mean = 122.0 Test C. V. = 8.4 LSD .05 = 14.4

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.

* Pioneer 3165, Texas Seed TS-777 and Gro Agri GSC 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 9B. Three-year summary, Corn Performance Test, McKinney, Texas.

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
HS 9843	HyPerformer Seed Co.	1	144.8	-	-	-	-
DK743	DEKALB Plant Genetics	2	141.1	7	162.1	-	-
7997	Cargill Hybrid Seeds	3	140.0	3	183.9	-	-
8427	Cargill Hybrid Seeds	4	134.9	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	5	132.9	-	-	-	-
T-E 9586	Taylor-Evans Seed Co.	6	132.0	27	149.7	-	-
TERRA - TR700E	TERRA INT., INC.	7	131.7	-	-	-	-
X1812	Pioneer Hi-Bred Int., Inc.	8	131.0	-	-	-	-
X1813	Pioneer Hi-Bred Int., Inc.	9	129.8	-	-	-	-
TERRA - TR641E	TERRA INT., INC.	10	128.9	-	-	-	-
HS 9704	HyPerformer Seed Co.	11	126.6	12	160.4	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	12	126.1	25	149.8	1	76.8
TERRA - TR1160	TERRA INT., INC.	13	125.5	-	-	-	-
Rx 899	ASGROW SEED CO.	14	125.0	14	158.0	-	-
91204Y	Tx. Agri. Exp. Stat.	15	124.5	-	-	-	-
SC-8519	Garrison & Townsend, Inc.	16	124.2	-	-	-	-
Rx 897	ASGROW SEED CO.	17	124.0	-	-	-	-
CHECK (3165)		18	123.0	30	141.5	2	75.9
G-4673B	Delta and Pine Land Co.	19	122.7	13	160.2	5	72.9
CHECK (TS-777)		20	122.5	29	145.0	-	-
3170	Pioneer Hi-Bred Int., Inc.	21	121.7	10	161.1	22	63.6
3279	Pioneer Hi-Bred Int., Inc.	22	121.0	-	-	-	-
TERRA - TR621E	TERRA INT., INC.	23	120.6	-	-	-	-
ICI/Garst 8315	ICI Seeds (Garst Seed Co.)	24	119.8	-	-	-	-
CHECK (GSC 4172)		25	119.2	15	155.3	-	-
3245	Pioneer Hi-Bred Int., Inc.	26	118.3	1	190.5	40	56.1
T-E 7081	Taylor-Evans Seed Co.	27	117.3	-	-	20	64.1
91202Y	Tx. Agri. Exp. Stat.	28	116.9	-	-	-	-
N7816	Northrup King Co.	29	115.3	-	-	-	-
90211W	Tx. Agri. Exp. Stat.	30	115.0	-	-	-	-

Table 9B. McKinney, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Rx 811	ASGROW SEED CO.	31	114.0	-	-	-	-
3394	Pioneer Hi-Bred Int., Inc.	32	114.0	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	33	112.8	-	-	-	-
91208Y	Tx. Agri. Exp. Stat.	34	111.1	-	-	-	-
4581	Delta and Pine Land Co.	35	110.4	-	-	-	-
G-4513	Delta and Pine Land Co.	36	110.1	16	155.1	14	66.2
SG-8440A	Garrison & Townsend, Inc.	37	108.2	-	-	-	-
X1811	Pioneer Hi-Bred Int., Inc.	38	107.8	-	-	-	-
SG-8515	Garrison & Townsend, Inc.	39	107.0	-	-	-	-
X1616	Pioneer Hi-Bred Int., Inc.	40	106.6	-	-	-	-
HS 9773	HyPerformer Seed Co.	-	-	8	161.9	19	64.2
GSC 4192	Gro Agri Seed Co.	-	-	9	161.2	10	68.8
ORO 180	ORO Hybrids-R.C. Young Seed Co.	-	-	19	154.0	3	74.4
HS 9663	HyPerformer Seed Co.	-	-	20	153.9	31	61.3
G-4666	Delta and Pine Land Co.	-	-	21	153.2	35	60.1
9027	Cargill Hybrid Seeds	-	-	22	151.2	4	74.1
HS 9911	HyPerformer Seed Co.	-	-	31	141.2	8	69.8
Conlee 8850	Conlee Seed Co., Inc.	-	-	32	134.3	7	72.3
Number Entries:		40		32		47	
Test Mean Yield:			122.0		157.5		62.4

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

TABLE 10.

AGRONOMIC AND TEST INFORMATION: DUMAS

TEST:	1992 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:	4-24-92; by hand through JD Max Emerge planter
DATE THINNED:	5-19-92; thinned to seed company recommendations
PLOT LENGTH:	25'
FERTILIZER:	261 lb/A of N applied as Anhydrous Ammonia, preplant; applied 130 lb/A of 10-34-0, 75 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 .67 oz/A Accent, and .5 pt/A of Banvel during growing season
INSECTICIDE:	Applied 1.5 pt/A of Lorsban through center pivot at post-tassel stage, and .04 AI of Capture for mites
RAINFALL:	Rainfall was not recorded at the test site, but estimated to be between 8-9"
IRRIGATIONS:	16.59" were applied through center pivot
DATE HARVESTED:	10-1-92 with plot combine
SIZE HARVESTED PLOT:	2 rows, 25' long
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	81
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	25,881 plants/A
TEST MEAN:	188.0 bu/A, yields corrected to 15.5% moisture
TEST C. V.:	11.1 percent

GENERAL INFORMATION: Eighty-one hybrids were planted at this site which made this the largest of nine corn performance tests in Texas. This test is representative of conditions in the Northern High Plains (Texas Crop Reporting District 1N) which is a major corn producing area of Texas. It is estimated that District 1N accounted for 560,000 acres of corn or 38.6% of Texas' acreage. The mean yield for this District was 164.3 bu/A compared to the State mean yield of 110.0 bu/A.

In interpreting results, yields do not reflect the potential of corn produced in this area in 1992. Outstanding yields were reported in adjacent fields, but below normal yields were achieved at the test block. We don't know exactly what the contributing factors were for the reduced yield, but it appears plant populations were low. The test block was planted by hand-dropping seed through a JD MaxEmerge planter. Seed distribution at planting was not ideal, thus plant populations attained after thinning were below the optimum population of 30-32,000 plants/acre. The mean population for the test was 25,881 plants/acre.

The test did receive above average rainfall during May and June which contributed to excellent plant growth and development. Only 16.59" of water were applied by irrigation using the LEPA system. The test mean was 188.0 bu/A compared to the past 4-year average of 204.9 bu/A at this site. Lodging was not a problem. The incidence of diseases and insects were minimal.

Appreciation is expressed to George Warner Seed Co., Hereford, Texas, for providing a plot combine to harvest the test. Just prior to harvest, number plants, number erect plants, and number smut 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 1992

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						
DK743	DEKALB Plant Genetics	Y	P	82	105	45	17.6	28401	96.0	57.7	221.8	A
W-2170	GEORGE WARNER SEED CO.	Y	R	84	102	43	21.4	28401	98.5	56.9	215.1	A-B
NC+ 6959	NC+ Hybrids	Y	R	85	104	48	16.7	27007	99.4	59.0	212.9	A-C
DK646	DEKALB Plant Genetics	Y	P	83	104	38	22.6	30144	99.4	54.6	212.7	A-C
HB 127002	HyPerformer Seed Co.	Y	R	84	98	45	21.8	25526	99.0	55.2	212.6	A-C
3162	Pioneer Hi-Bred Int., Inc.	Y	P	81	100	38	20.5	26397	97.7	57.4	210.6	A-D
91214Y	Tx. Agri. Exp. Stat.	Y	W	85	108	54	16.2	26397	95.7	58.6	210.4	A-D
T-E 6951	Taylor-Evans Seed Co.	Y	R	82	97	44	17.8	27704	98.1	57.6	209.9	A-D
KING'S 5114	DOUGLASS W. KING CO., INC.	Y	P	83	97	47	21.6	29098	97.0	57.4	209.9	A-D
91208Y	Tx. Agri. Exp. Stat.	Y	W	85	108	54	18.9	30231	97.7	57.0	209.4	A-D
WxC-330	GEORGE WARNER SEED CO.	Y	R	85	103	48	21.9	26397	98.3	55.9	206.6	A-E
F-3040	Frontier Hybrids, Inc.	Y	R	83	99	47	22.1	26397	97.0	55.6	206.5	A-E
X1814	Pioneer Hi-Bred Int., Inc.	Y	P	83	109	47	21.0	27181	98.4	57.3	206.4	A-E
4662	Delta and Pine Land Co.	Y	R	83	103	44	22.5	25178	99.0	55.6	206.1	A-F
TERRA - TR1167	TERRA INT., INC.	Y	R	84	104	48	22.2	25439	98.6	55.0	205.7	A-F
ORO 188	ORO Hybrids-R.C. Young	Y	R	84	100	46	24.5	23871	98.9	53.5	205.7	A-F
F-3100	Frontier Hybrids, Inc.	Y	R	85	105	49	22.1	26920	99.4	56.0	205.0	A-G
TERRA - TR621E	TERRA INT., INC.	Y	R	83	96	43	21.5	24568	97.9	55.0	204.9	A-G
NC+ 5963	NC+ Hybrids	Y	R	82	100	42	19.5	26484	98.7	56.9	202.7	A-H
8695	Delta and Pine Land Co.	Y	R	85	105	47	22.0	26136	98.3	53.5	201.0	A-H
4581	Delta and Pine Land Co.	Y	R	84	97	45	20.4	27878	98.8	55.9	200.5	A-I
G-4513	Delta and Pine Land Co.	Y	R	82	99	44	21.2	26833	97.7	56.3	199.6	A-J
DK715	DEKALB Plant Genetics	Y	P	82	100	39	18.4	27966	98.8	55.6	199.4	A-J
FCx11741	Vineyard Seed Co., Inc.	Y	W	84	103	43	22.4	23610	99.6	56.2	197.8	A-J
F-3038	Frontier Hybrids, Inc.	Y	R	83	102	40	18.9	26310	98.0	57.4	197.7	A-J
N7816	Northrup King Co.	Y	R	83	95	41	23.4	25091	99.0	54.5	196.9	A-J
GSC 4202	Gro Agri Seed Co.	Y	R	84	97	45	16.1	25003	97.6	56.4	196.3	A-J
GC 06368	Germain's Seed Inc.	Y	R	84	105	45	21.8	24132	100.0	56.2	196.1	A-J

Table 10A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1992

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 ****
Jacques 9220	Jacques Seed Co.	Y	R	83	102	47	24.7	26136	97.3	52.5	195.4	A-K
HS 9977	HyPerformer Seed Co.	Y	R	84	99	44	24.1	24916	97.2	54.3	195.4	A-K
8177	Cargill Hybrid Seeds	Y	R	82	101	48	22.0	26746	96.7	56.4	194.1	A-L
TERRA - TR641E	TERRA INT., INC.	Y	R	82	95	37	18.6	27356	93.9	57.8	192.2	A-L
W-2166	GEORGE WARNER SEED CO.	Y	R	82	94	42	20.0	24742	97.5	57.8	191.3	A-L
2010	Triumph Seed Co., Inc.	Y	R	84	104	49	22.2	23610	99.6	55.3	190.6	A-L
T-E 2908-X	Taylor-Evans Seed Co.	Y	R	85	103	43	21.8	26833	98.7	54.6	190.4	A-L
GSC 4161	Gro Agri Seed Co.	Y	R	82	98	44	18.9	26049	97.3	57.3	190.2	A-L
G-4673B	Delta and Pine Land Co.	Y	R	82	98	43	20.8	24045	99.3	55.2	190.1	A-L
X1811	Pioneer Hi-Bred Int., Inc.	Y	P	85	108	46	19.1	26136	98.0	59.0	189.4	A-L
Vx11468w	Vineyard Seed Co., Inc.	W	W	83	98	45	24.1	21954	98.4	56.4	188.4	A-L
HS 9905	HyPerformer Seed Co.	Y	R	83	94	39	21.9	28401	98.5	56.0	188.2	A-L
EXP165	DEKALB Plant Genetics	Y	P	82	104	42	21.0	24916	97.9	56.4	187.7	A-L
X1616	Pioneer Hi-Bred Int., Inc.	Y	P	82	94	38	18.6	23784	98.9	58.4	187.6	A-L
NC+ 6485	NC+ Hybrids	Y	R	83	103	46	24.2	26136	98.3	53.5	186.8	A-L
3317	Pioneer Hi-Bred Int., Inc.	Y	R	81	95	39	18.0	24655	97.9	57.3	186.5	A-L
GSC 4192	Gro Agri Seed Co.	Y	R	82	94	40	19.3	27791	97.2	56.2	186.3	A-L
T-E 2907-X	Taylor-Evans Seed Co.	Y	R	81	97	36	12.8	26920	98.4	56.6	186.1	A-L
HS 9502	HyPerformer Seed Co.	Y	R	83	95	39	15.8	27181	99.7	58.7	185.2	A-L
HS 9843	HyPerformer Seed Co.	Y	R	84	106	51	23.3	25265	97.9	54.5	184.9	A-L
TERRA - TR1160	TERRA INT., INC.	Y	R	84	106	46	22.3	23697	98.9	56.2	183.4	B-L
USN 328 (Exp.)	Seed Source, Inc.	Y	R	85	101	47	22.3	21867	99.6	55.7	183.2	B-L
SG-8519	Garrison & Townsend, Inc.	Y	R	85	100	45	19.4	25700	98.6	58.8	183.1	B-L
7997	Cargill Hybrid Seeds	Y	R	81	99	38	18.9	23522	98.1	58.4	182.6	B-L
GSC 4195	Gro Agri Seed Co.	Y	R	82	94	39	23.7	26572	96.4	55.0	182.6	B-L
ORO Exp. 211	ORO Hybrids-R.C. Young	Y	R	84	106	43	19.9	26397	97.0	55.9	181.9	B-L
T-E 2904-X	Taylor-Evans Seed Co.	Y	R	81	94	38	16.9	27094	96.8	56.9	181.0	B-L

Table 10A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1992

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						
N6330	Northrup King Co.	Y	R	82	91	37	16.5	26484	98.0	58.6	180.2	B-L
FCx11777	Vineyard Seed Co., Inc.	Y	W	82	101	40	24.9	23348	99.3	54.9	179.8	B-M
GC 16523 (Exp)	Germain's Seed Inc.	Y	R	82	94	35	14.8	24829	98.9	58.1	179.7	B-M
Vx11502w	Vineyard Seed Co., Inc.	W	W	83	88	41	20.9	23871	99.6	58.7	178.8	B-M
Jacques 8210	Jacques Seed Co.	Y	R	81	94	38	18.4	23871	96.0	56.6	178.4	B-M
Jacques 7970	Jacques Seed Co.	Y	R	82	91	38	17.3	24219	97.1	57.8	177.9	B-M
GSC 4715	Gro Agri Seed Co.	Y	W	83	101	41	21.4	27530	95.6	58.3	177.6	C-M
ORO 190	ORO Hybrids-R.C. Young	Y	R	82	98	41	20.2	28662	94.5	55.9	176.8	C-M
NC+ 7304	NC+ Hybrids	Y	R	85	101	45	21.0	24219	98.6	58.3	175.4	C-M
TERRA - TR701E	TERRA INT., INC.	Y	R	83	97	41	22.1	24742	97.5	54.3	174.9	D-M
3245	Pioneer Hi-Bred Int., Inc.	Y	P	84	102	38	16.5	27617	97.5	61.5	174.9	D-M
KING'S 9103x	DOUGLASS W. KING CO., INC.	Y	P	83	97	48	21.8	26484	98.0	56.7	173.9	D-M
8620	Delta and Pine Land Co.	Y	R	82	93	37	21.7	25003	97.2	55.2	173.6	D-M
HS 9822	HyPerformer Seed Co.	Y	R	84	102	44	20.1	25875	99.0	55.2	173.4	D-M
ORO Exp. 1006	ORO Hybrids-R.C. Young	Y	R	81	94	37	16.7	26310	97.7	57.1	170.6	E-M
T-E 2905-X	Taylor-Evans Seed Co.	Y	R	83	97	41	18.7	27530	97.2	56.3	170.2	E-M
FCx11758	Vineyard Seed Co., Inc.	Y	W	83	98	43	22.5	23610	96.7	56.7	169.7	E-M
NC+ 5037	NC+ Hybrids	Y	R	83	88	39	16.1	27181	99.4	58.8	168.9	F-M
Vx11616w	Vineyard Seed Co., Inc.	W	W	81	88	43	17.0	26659	96.7	58.7	167.8	G-M
X1612	Pioneer Hi-Bred Int., Inc.	Y	P	82	94	37	18.6	25962	98.7	57.3	166.1	H-N
SG-8521	Garrison & Townsend, Inc.	Y	R	84	103	47	18.5	26136	97.7	57.3	163.3	I-N
92218Y	Tx. Agri. Exp. Stat.	Y	W	86	103	46	22.4	26310	98.3	53.8	162.3	J-N
ORO Exp. 1008	ORO Hybrids-R.C. Young	Y	R	81	102	41	22.6	26833	95.1	55.3	158.2	K-N
KING'S 9202x	DOUGLASS W. KING CO., INC.	Y	P	82	99	47	19.4	25613	98.3	58.0	157.4	L-N
FCx11850	Vineyard Seed Co., Inc.	Y	W	82	91	35	19.3	23000	98.5	56.7	143.4	M-N
FCx11756	Vineyard Seed Co., Inc.	Y	W	82	95	43	21.0	21344	98.0	56.9	132.4	N

Test Mean = 188.0 Test C. V. = 11.1 LSD .05 = 29.1

Table 10A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1992

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.

* Commercial check hybrids were not entered in the test. Hybrids that are commonly used in this area were already entered by commercial companies.

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

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DK743	DEKALB Plant Genetics	1	221.8	-	-	-	-
W-2170	GEORGE WARNER SEED CO.	2	215.1	-	-	-	-
NC+ 6959	NC+ Hybrids	3	212.9	-	-	-	-
DK646	DEKALB Plant Genetics	4	212.7	-	-	-	-
HB 127002	HyPerformer Seed Co.	5	212.6	-	-	-	-
3162	Pioneer Hi-Bred Int., Inc.	6	210.6	26	202.3	51	202.8
91214Y	Tx. Agri. Exp. Stat.	7	210.4	48	192.6	-	-
T-E 6951	Taylor-Evans Seed Co.	8	209.9	-	-	19	221.6
KING'S 5114	DOUGLASS W. KING CO., INC.	9	209.9	9	211.0	-	-
91208Y	Tx. Agri. Exp. Stat.	10	209.4	45	193.7	-	-
WxC-330	GEORGE WARNER SEED CO.	11	206.6	-	-	-	-
F-3040	Frontier Hybrids, Inc.	12	206.5	2	222.3	27	217.7
X1814	Pioneer Hi-Bred Int., Inc.	13	206.4	-	-	-	-
4662	Delta and Pine Land Co.	14	206.1	-	-	-	-
TERRA - TR1167	TERRA INT., INC.	15	205.7	-	-	-	-
ORO 188	ORO Hybrids-R.C. Young Seed Co.	16	205.7	27	201.9	-	-
F-3100	Frontier Hybrids, Inc.	17	205.0	-	-	-	-
TERRA - TR621E	TERRA INT., INC.	18	204.9	-	-	-	-
NC+ 5963	NC+ Hybrids	19	202.7	8	212.3	-	-
8695	Delta and Pine Land Co.	20	201.0	-	-	-	-
4581	Delta and Pine Land Co.	21	200.5	6	214.7	-	-
G-4513	Delta and Pine Land Co.	22	199.6	10	210.4	3	235.2
DK715	DEKALB Plant Genetics	23	199.4	25	203.8	-	-
FCx11741	Vineyard Seed Co., Inc.	24	197.8	-	-	-	-
F-3038	Frontier Hybrids, Inc.	25	197.7	31	201.0	31	216.1
N7816	Nothrup King Co.	26	196.9	21	205.2	-	-
GSC 4202	Gro Agri Seed Co.	27	196.3	3	220.6	-	-
GC 06368	Germain's Seed Inc.	28	196.1	-	-	-	-
Jacques 9220	Jacques Seed Co.	29	195.4	20	205.3	7	228.9
HS 9977	HyPerformer Seed Co.	30	195.4	-	-	-	-
8177	Cargill Hybrid Seeds	31	194.1	-	-	-	-
TERRA - TR641E	TERRA INT., INC.	32	192.2	-	-	-	-

Table 10B. Dumas, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
W-2166	GEORGE WARNER SEED CO.	33	191.3	39	196.6	26	217.7
2010	Triumph Seed Co., Inc.	34	190.6	-	-	-	-
T-E 2908-X	Taylor-Evans Seed Co.	35	190.4	-	-	-	-
GSC 4161	Gro Agri Seed Co.	36	190.2	40	196.3	42	208.6
G-4673B	Delta and Pine Land Co.	37	190.1	19	206.0	1	250.4
X1811	Pioneer Hi-Bred Int., Inc.	38	189.4	-	-	-	-
Vx11468w	Vineyard Seed Co., Inc.	39	188.4	-	-	-	-
HS 9905	HyPerformer Seed Co.	40	188.2	-	-	-	-
EXP165	DEKALB Plant Genetics	41	187.7	-	-	-	-
X1616	Pioneer Hi-Bred Int., Inc.	42	187.6	-	-	-	-
NC+ 6485	NC+ Hybrids	43	186.8	-	-	-	-
3317	Pioneer Hi-Bred Int., Inc.	44	186.5	-	-	-	-
GSC 4192	Gro Agri Seed Co.	45	186.3	32	200.6	46	206.9
T-E 2907-X	Taylor-Evans Seed Co.	46	186.1	-	-	-	-
HS 9502	HyPerformer Seed Co.	47	185.2	-	-	-	-
HS 9843	HyPerformer Seed Co.	48	184.9	-	-	-	-
TERRA - TR1160	TERRA INT., INC.	49	183.4	-	-	-	-
USN 328 (Exp.)	Seed Source, Inc.	50	183.2	62	175.5	-	-
SG-8519	Garrison & Townsend, Inc.	51	183.1	-	-	-	-
7997	Cargill Hybrid Seeds	52	182.6	29	201.6	-	-
GSC 4195	Gro Agri Seed Co.	53	182.6	11	209.7	-	-
ORO Exp. 211	ORO Hybrids-R. C. Young Seed Co.	54	181.9	-	-	-	-
T-E 2904-X	Taylor-Evans Seed Co.	55	181.0	-	-	-	-
N6330	Northrup King Co.	56	180.2	24	204.2	-	-
FCx11777	Vineyard Seed Co., Inc.	57	179.8	-	-	-	-
GC 16523 (Exp)	Germain's Seed Inc.	58	179.7	-	-	-	-
Vx11502w	Vineyard Seed Co., Inc.	59	178.8	-	-	-	-
Jacques 8210	Jacques Seed Co.	60	178.4	-	-	59	197.4
Jacques 7970	Jacques Seed Co.	61	177.9	-	-	-	-
GSC 4715	Gro Agri Seed Co.	62	177.6	35	198.0	2	236.9
ORO 190	ORO Hybrids-R.C. Young Seed Co.	63	176.8	23	204.7	56	200.6
NC+ 7304	NC+ Hybrids	64	175.4	-	-	-	-

Table 10B. Dumas, Texas (Continued).

HYBRID	COMPANY	1992		1991		1990	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
TERRA - TR701E	TERRA INT., INC.	65	174.9	-	-	-	-
3245	Pioneer Hi-Bred Int., Inc.	66	174.9	1	223.3	36	212.1
KING'S 9103-X	DOUGLASS W. KING CO., INC.	67	173.9	57	186.1	-	-
8620	Delta and Pine Land Co.	68	173.6	-	-	-	-
HS 9822	HyPerformer Seed Co.	69	173.4	-	-	-	-
ORO Exp. 1006	ORO Hybrids-R.C. Young Seed Co.	70	170.6	7	213.0	-	-
T-E 2905-X	Taylor-Evans Seed Co.	71	170.2	-	-	-	-
FCx11758	Vineyard Seed Co., Inc.	72	169.7	-	-	-	-
NC+ 5037	NC+ Hybrids	73	168.9	-	-	-	-
Vx11616w	Vineyard Seed Co., Inc.	74	167.8	-	-	-	-
X1612	Pioneer Hi-Bred Int., Inc.	75	166.1	-	-	-	-
SG-8521	Garrison & Townsend, Inc.	76	163.3	-	-	-	-
92218Y	Tx. Agri. Exp. Stat.	77	162.3	-	-	-	-
ORO Exp. 1008	ORO Hybrids-R.C. Young Seed Co.	78	158.2	-	-	-	-
KING'S 9202X	DOUGLASS W. KING CO., INC.	79	157.4	-	-	-	-
FCx11850	Vineyard Seed Co., Inc.	80	143.4	-	-	-	-
FCx11756	Vineyard Seed Co., Inc.	81	132.4	-	-	-	-
WxC-170	GEORGE WARNER SEED CO.	-	-	12	208.5	14	225.6
9027	Cargill Hybrid Seeds	-	-	14	208.0	22	219.4
Conlee 8850	Conlee Seed Co., Inc.	-	-	17	206.5	49	204.7
T-E 7055	Taylor-Evans Seed Co.	-	-	28	201.8	10	227.6
Jacques 8510	Jacques Seed Co.	-	-	36	197.9	55	200.8
96001	Germain's Seed Inc.	-	-	46	193.3	39	210.4
ORO 180	ORO Hybrids-R.C. Young Seed Co.	-	-	49	192.5	23	219.1
ORO 120	ORO Hybrids-R.C. Young Seed Co.	-	-	58	185.4	52	202.2
90211W	Tx. Agri. Exp. Stat.	-	-	64	160.7	65	192.3
Number Entries:		81		64		90	
Test Mean Yield:			188.0		199.1		200.8

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, 1992.

AUTHORS: N.E. Wuthrich, D.T. Rosenow, G.C. Peterson, respectively Research Associate, Professor, Assistant Professor

METHODS & MATERIALS:

Experimental Design: Randomized complete block with four reps
 Plot Size: 13.3 ft (4 beds x 23 ft.)
 Row Spacing: Single row on 40-inch spaced beds
 Soil Type: Pullman clay loam
 Previous Crop: Soybeans
 Fertilizer: 275-65-0-9 (N-P-K-S)
 Herbicide: 1.5 lb ai/A Atrazine
 Insecticide: None
 Irrigations: Preplant plus 2.5, 2.1, 1.6 and 3.0 acre in/A applications July 10, 20, August 4 and 14
 Planting Date: April 25
 Plant Population: See Table S2
 Harvest Date: September 23 & 28

RESULTS & DISCUSSION:

Good yields were produced in this test with a mean of 10,736 lbs/A. Additional seed was planted for desired plant populations. Plots were hand thinned for uniform spacing and population after emergence. Plots were counted for total population per acre before harvest.

Beneficial rainfall during the middle part of the growing season provided adequate moisture without irrigation.

The higher percentages of broken plants were due to weak stalks and not corn borer infestation.

Two moderate hail storms in May and two in June damaged leaves and stalks and lowered the yield potential of the hybrids.

Plots were harvested with a 4-row plot combine equipped with a weight meter. Grain yields were adjusted to 15.5 percent moisture after harvest.

Table S2. Grain yield and other agronomic data for 44 corn grain hybrids evaluated for grain production at the Texas Agricultural Experiment Station, Halfway, Texas, 1992.

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
Taylor-Evans Seed Co.	T-E 2908-X	12824	A	229.0	74.3	42.3	15.3	3.6	30293
Garrison & Townsend, Inc.	SG-8519	12397	A-B	221.4	76.0	43.7	14.8	3.8	30293
DOUGLASS W. KING CO., INC.	KING'S 8114	12285	A-C	219.4	76.0	42.7	15.8	4.1	29110
Wilson Seeds, Inc.	2330	12251	A-C	218.8	75.3	41.3	17.5	5.2	26365
Garrison & Townsend, Inc.	SG-8521	12050	A-D	215.2	76.0	41.3	17.9	4.3	29394
ASGROW SEED CO.	Rx897	12046	A-D	215.1	75.7	46.7	15.6	4.6	30104
Triumph Seed Co., Inc.	2010	11958	A-E	213.5	75.3	47.3	15.6	4.3	27737
GEORGE WARNER SEED CO.	W-2170	11958	A-E	213.5	74.3	43.7	16.1	4.0	30909
Campbell Seed Co.	C-850	11834	A-F	211.3	75.7	45.7	16.1	5.3	25939
ICI Seeds (Garst Seed Co.)	ICI/Garst 8272	11602	A-G	207.2	74.3	40.7	16.3	4.4	32045
Taylor-Evans Seed Co.	T-E 9106-X	11568	A-H	206.6	75.0	42.7	17.5	4.3	29631
ORO Hybrids-R.C. Young	ORO Exp. 211	11386	A-I	203.3	74.7	40.0	17.0	6.8	30625
Pioneer Hi-Bred Int., Inc.	3162	11351	A-I	202.7	72.0	34.3	17.7	4.0	27501
Gro Agri Seed Co.	GSC 4202	11323	A-I	202.2	75.3	38.7	17.1	4.5	29157
Gro Agri Seed Co.	GSC 4161	11242	A-I	200.7	74.0	41.7	15.6	5.2	29299
Pioneer Hi-Bred Int., Inc.	X1814	11117	B-I	198.5	74.0	41.3	15.4	6.9	25939
Frontier Hybrids, Inc.	F-3100	11093	B-I	198.1	75.7	42.3	15.5	5.8	29252
Frontier Hybrids, Inc.	F-3040	11051	B-I	197.3	74.0	44.0	16.5	3.9	29962
Jacques Seed Co.	7970	11016	B-I	196.7	73.0	36.7	16.2	4.8	27548
AgriPro Seeds	AP674	10892	B-I	194.5	75.3	47.3	16.8	5.4	30767
Frontier Hybrids, Inc.	F-3038	10850	B-J	193.8	74.0	41.3	15.4	6.7	28163
ORO Hybrids-R.C. Young	ORO 188	10689	C-K	190.9	75.0	44.3	17.0	10.4	29015
ICI Seeds (Garst Seed Co.)	ICI/Garst 8260	10662	C-K	190.4	74.3	40.3	16.6	7.5	29205
DEKALB Plant Genetics	DK715	10557	D-L	188.5	74.0	41.7	15.8	2.4	29773
Campbell Seed Co.	C-765	10490	D-L	187.3	74.3	41.7	15.2	5.8	27737
Cargill Hybrid Seeds	7997	10375	E-M	185.3	74.0	38.7	15.4	4.1	31287
Jacques Seed Co.	8210	10355	E-M	184.9	73.7	34.7	16.6	4.1	29110
Triumph Seed Co., Inc.	1270	10340	E-M	184.6	72.3	38.0	15.5	3.4	29583
Pioneer Hi-Bred Int., Inc.	X1811	10262	F-M	183.3	75.0	42.7	15.2	5.2	29157
Pioneer Hi-Bred Int., Inc.	3245	10257	F-M	183.2	74.3	35.7	16.7	4.2	29157

Table S2. Grain yield and other agronomic data for 44 corn grain hybrids evaluated for grain production at the Texas Agricultural Experiment Station, Halfway, Texas, 1992.

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
SEEDCO Corporation	SC-119	10159	G-M	181.4	76.0	46.7	15.1	7.0	30577
Triumph Seed Co., Inc.	1630	10095	G-M	180.3	75.7	40.3	14.8	8.1	32045
ORO Hybrids-R.C. Young	ORO 120	10078	G-M	180.0	74.0	38.3	15.1	4.6	29820
Gro Agri Seed Co.	GSC 4192	9991	G-N	178.4	73.7	35.3	16.1	5.5	31145
Northrup King Co.	N7816	9961	G-N	177.9	73.7	43.7	16.3	4.5	28211
Cargill Hybrid Seeds	8177	9913	H-N	177.0	73.3	44.7	15.5	5.2	29157
ORO Hybrids-R.C. Young	ORO 190	9881	I-N	176.5	73.7	35.0	16.4	5.7	30767
DEKALB Plant Genetics	DK657	9829	I-N	175.5	74.0	43.0	15.8	5.4	30577
SEEDCO Corporation	SC-115	9756	I-N	174.2	73.3	41.3	15.7	5.3	29252
ORO Hybrids-R.C. Young	ORO Exp. 6008	9240	J-N	165.0	73.7	44.7	16.1	11.8	31666
Zimmerman Hybrids Inc.	Z63W	9137	K-N	163.2	76.0	45.0	17.2	6.9	26033
Zimmerman Hybrids Inc.	Z16W	8948	L-N	159.8	74.7	41.7	17.9	6.0	25844
Zimmerman Hybrids Inc.	Z61W	8751	M-N	156.3	75.3	43.7	15.5	5.7	25749
Zimmerman Hybrids Inc.	Z17W	8448	N	150.9	75.0	40.0	16.2	8.1	27595

Test Mean = 191.7 Test C. V. = 7.6 LSD .05 = 23.7

* 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 23, 1992.

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