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1989 Corn Performance Tests in Texas

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1989 CORN PERFORMANCE TESTS IN TEXAS

by

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

**A. J. Bockholt
Associate Professor
Texas Agricultural Experiment Station
Department of Soil and Crop Sciences
Texas A&M University**

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

**Frank Fojt III
Technician II
Texas Agricultural Experiment Station
Texas A&M University**

**THE TEXAS AGRICULTURAL EXPERIMENT STATION/Charles J. Arntzen, Director
The Texas A&M University System/College Station, Texas**

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KEYWORDS: Texas/corn/hybrids/performance test/yield/disease/insect resistance.

1989 CORN PERFORMANCE TESTS IN TEXAS

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

INTRODUCTION

Since Texas is climatically diversified, corn is one of the major commodities farmers have planted. Factors such as price, precipitation patterns, and participation in government supported programs have contributed to fluctuation of acreage over a period of time. Figure 1 shows corn yield and acreage in Texas from 1941-1989. During this 49-year period, acreage peaked in 1942 at 4.91 million acres. Yield per acre during this time has increased from 14 bu/A in 1944 to 117 bu/a in 1981. Since the introduction of hybrids in 1945, increase in yields can be attributed to continuous improvements in breeding efforts and improved agronomic and cultural practices employed by farmers. According to preliminary figures, 1.4 million acres of corn were harvested statewide this year compared to 1.35 million acres in 1988 (1). The Northern High Plains of Texas (Figure 2) realized the largest increase of acreage from 1988 to 1989 of 45.6%. Yield per acre also increased from 96.0 bu/A in 1988 to 109 bu/A in 1989 or 13.5%. Figure 2 also shows the major corn growing areas in Texas as indicated by the acreage above each crop reporting district.

Corn has been produced primarily for feed purposes but constant emphasis is being placed on producing corn for human consumption. Texas produces over 50% of the corn used in the U.S. for food in three major production areas: Lower Valley, High Plains, and the Winter Garden Area just west of San Antonio.

Since corn is used for feed and food, it becomes necessary to evaluate corn hybrids for agronomic characteristics that will be helpful in selecting a hybrid adapted for a specific area. This publication contains results from four irrigated and four non-irrigated corn performance tests conducted in the major corn producing areas of Texas. Approximate locations of the test sites are shown in Figure 3. Irrigated test sites are designated with an (I) and non-irrigated sites with a (NI).

In addition, the results of a supplementary corn variety test conducted at Halfway, Texas is included. This test was conducted at the Texas Agricultural Experiment Station 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 2). This program is conducted by personnel from the Crop Testing Program, TAMU, College Station, Texas under Project 1418; and is financed in part 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 #X." 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, 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 hand-harvested; all entries from the four replications were shelled, and moisture determined at or near the test site. Samples from the Wharton, Thrall, and Bardwell test sites were brought back to College Station, shelled, weighed, and moisture was determined the same day or the day after harvest.

DATA

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

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

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

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

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

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

Moisture--determined from samples of shelled corn with an electrical conductance meter from all replications at harvest

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

Lodged plants--percentage of plants leaning more than 45 degrees from the upright or vertical position in the harvested area.

Broken plants--percentage of plants detached below ear level in the harvested area.

Freeze Damage--percentage of plants that were burned down to soil level or received significant leaf burn. Presented in Table 7A.

Test weight--pounds per bushel of grain determined with an official test weight apparatus.

Smut--percentage of plants from harvested area showing smut.

Yield--determined by the following method: mean plot weight x acre conversion factor x mean shelling percent 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

Unfavorable weather conditions, erratic precipitation patterns and marginal soil moisture were contributing factors that made 1989 a very difficult year to conduct performance tests. Of the eight performance tests that were planted, seven were harvested. The Southern portion of Texas was very dry while the Northern part was extremely wet during the early part of the year. The Corpus Christi test was not harvested due to severe plant stress resulting from marginal soil moisture at planting and limited rainfall during the growing season. An unseasonable freeze at Bardwell on April 11 reduced plant stands in some plots but favorable weather soon followed and excellent yields were obtained. The Thrall test site received hail on two dates. The hail damage in addition to unfavorable rainfall distribution reduced potential yields.

Excellent yields were secured at all of the irrigated test sites except Weslaco. Extended periods of hot and dry weather conditions resulted in partial desiccation of leaves thus reducing yields at Weslaco. Continued hot and dry conditions at harvest allowed for rapid and continuous harvest.

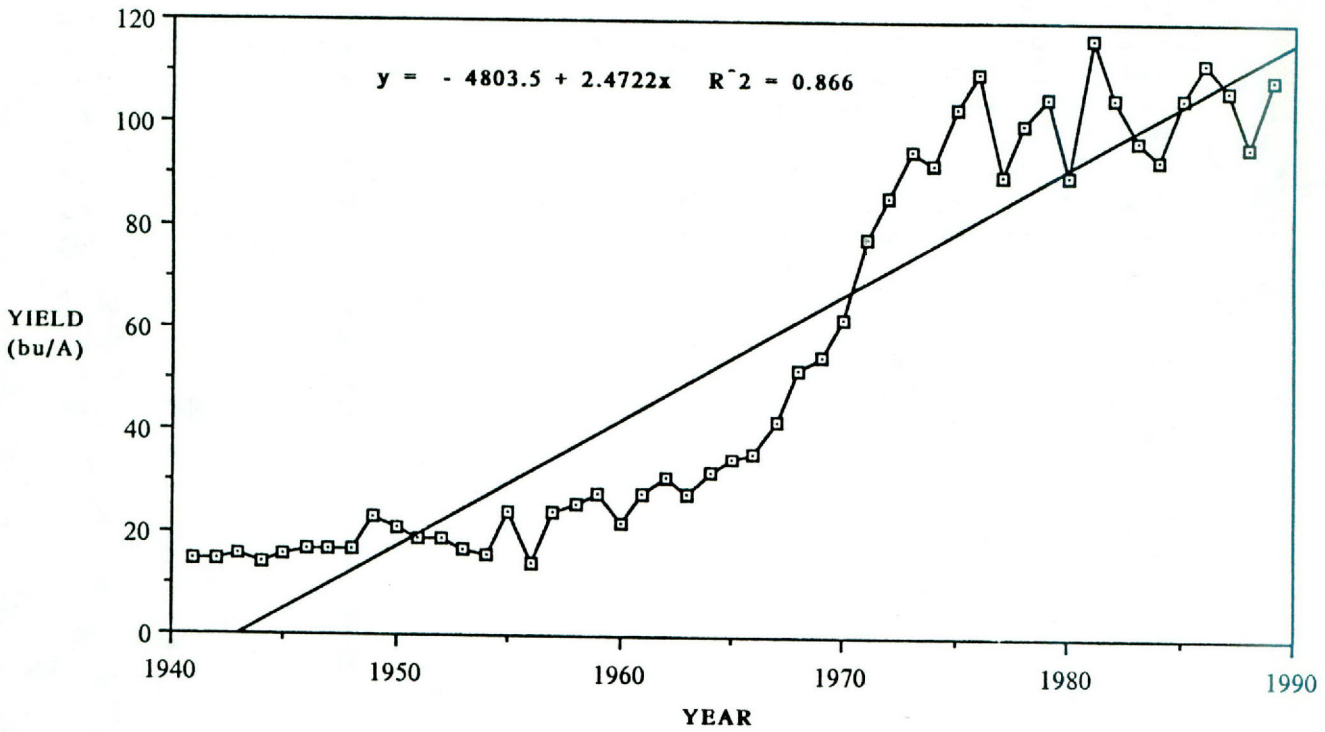
Results of each of the performance test locations are presented as follows:

1. Tables 2-8 summarize agronomic and test data information.

2. Tables 2A-8A show performance test information from the respective locations. Some hybrids are in the experimental stage and seed are not available in quantities for farm planting. These hybrids are designated by an experimental number. Individuals may contact seed companies in Table 1 for the availability of planting seed for a particular hybrid.
3. Tables 2B-8B are summaries of hybrids showing test yields and test ranks at respective locations for given periods of time. These are helpful in the selection of hybrids for a particular area. Hybrids not entered for a respective year are designated (--). Hybrids with the same yields were ranked by computer.
4. Tables S1-S2 give results of a supplementary corn variety test conducted at Halfway, Texas. This test was conducted separately from the State corn performance tests. It was conducted as part of the sorghum and corn variety testing program at the Texas Agricultural Experiment Station at Halfway in cooperation with the High Plains Research Foundation.

-6-
Figure 1. Texas Corn Acreage and Yield, 1941-1989.

TEXAS CORN YIELD, 1941-1989



TEXAS CORN ACREAGE, 1941-1989

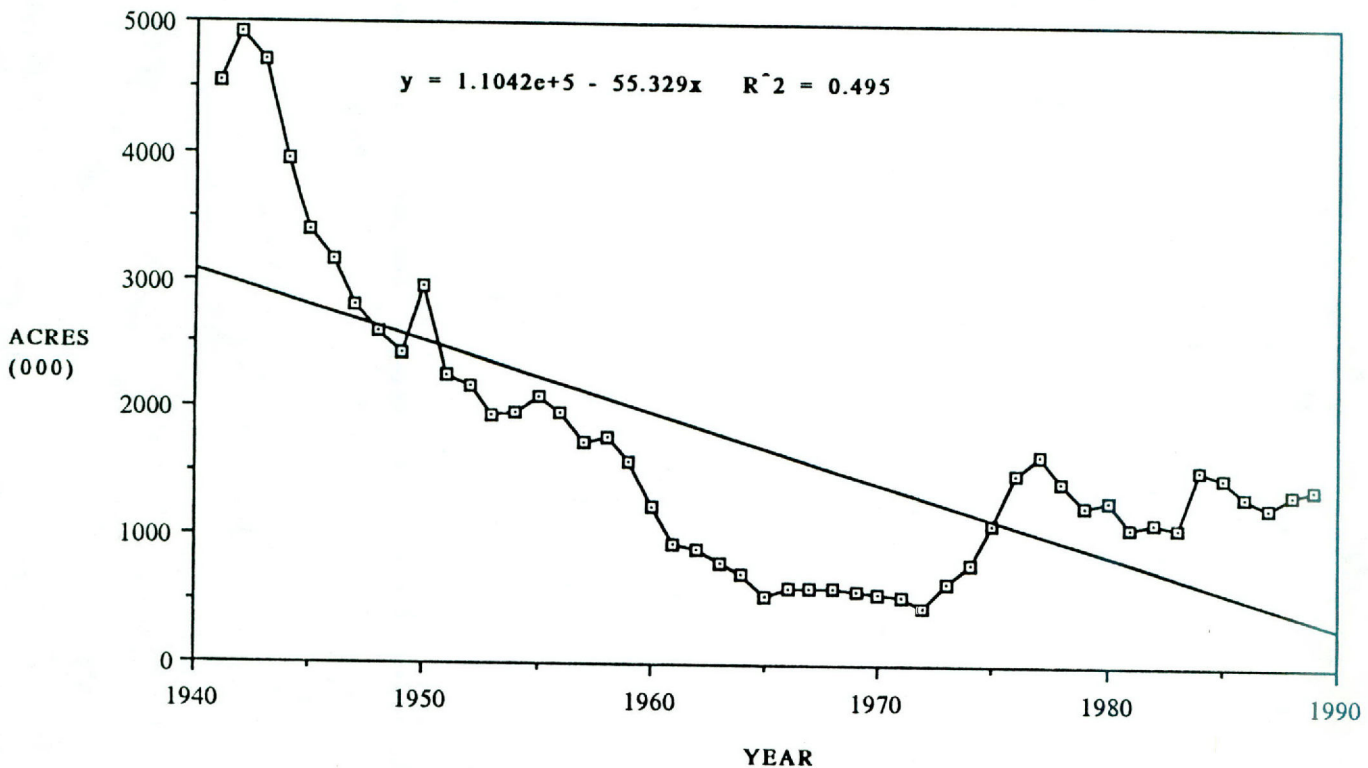
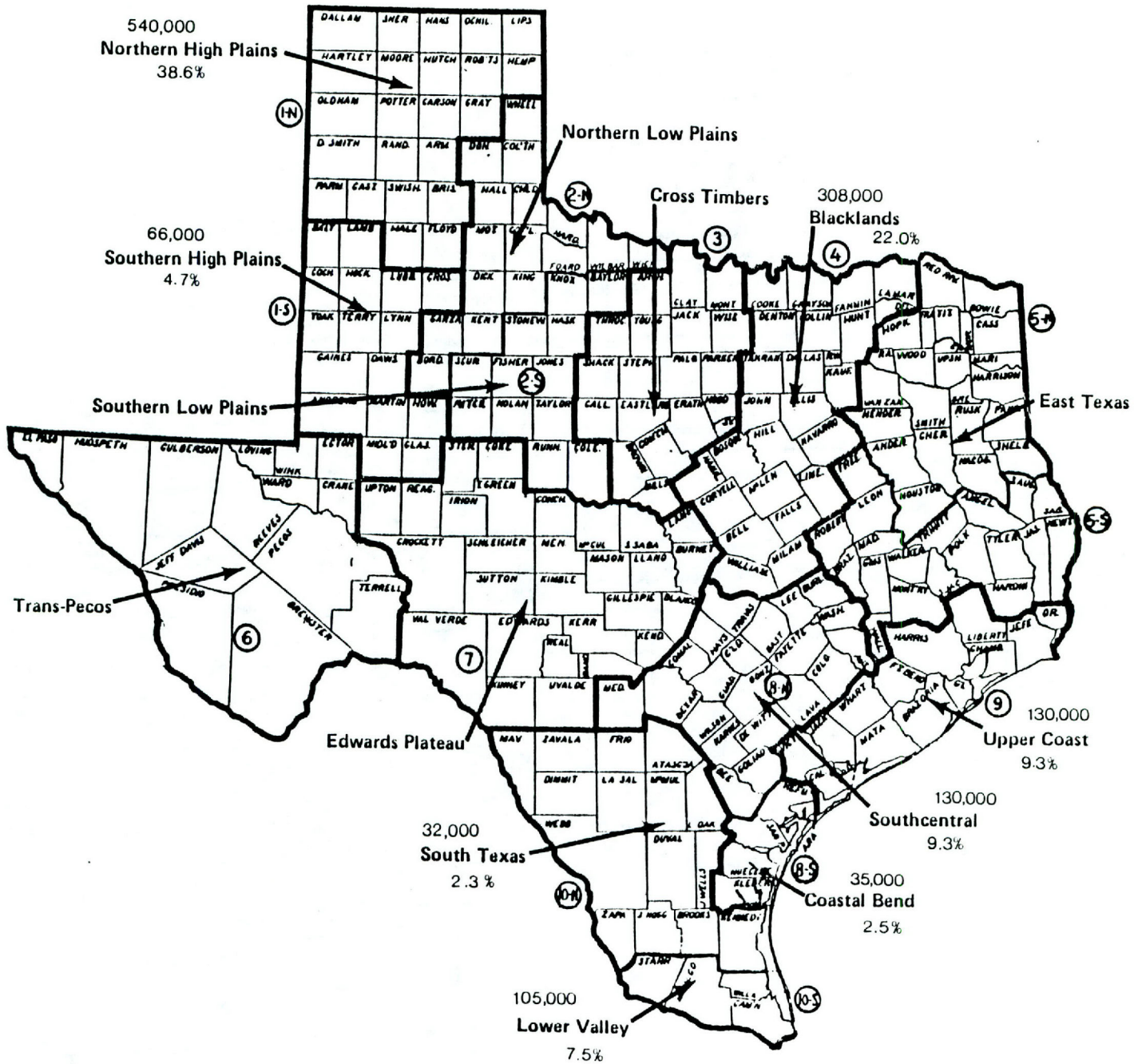


Figure 2. Acres and Percentage of Corn Acreage Harvested by Texas Crop Reporting Districts, 1989 (1).



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 54,000 acres or 3.9 percent of state acreage (1).

Figure 3. 1989 Corn Test Locations in Texas.

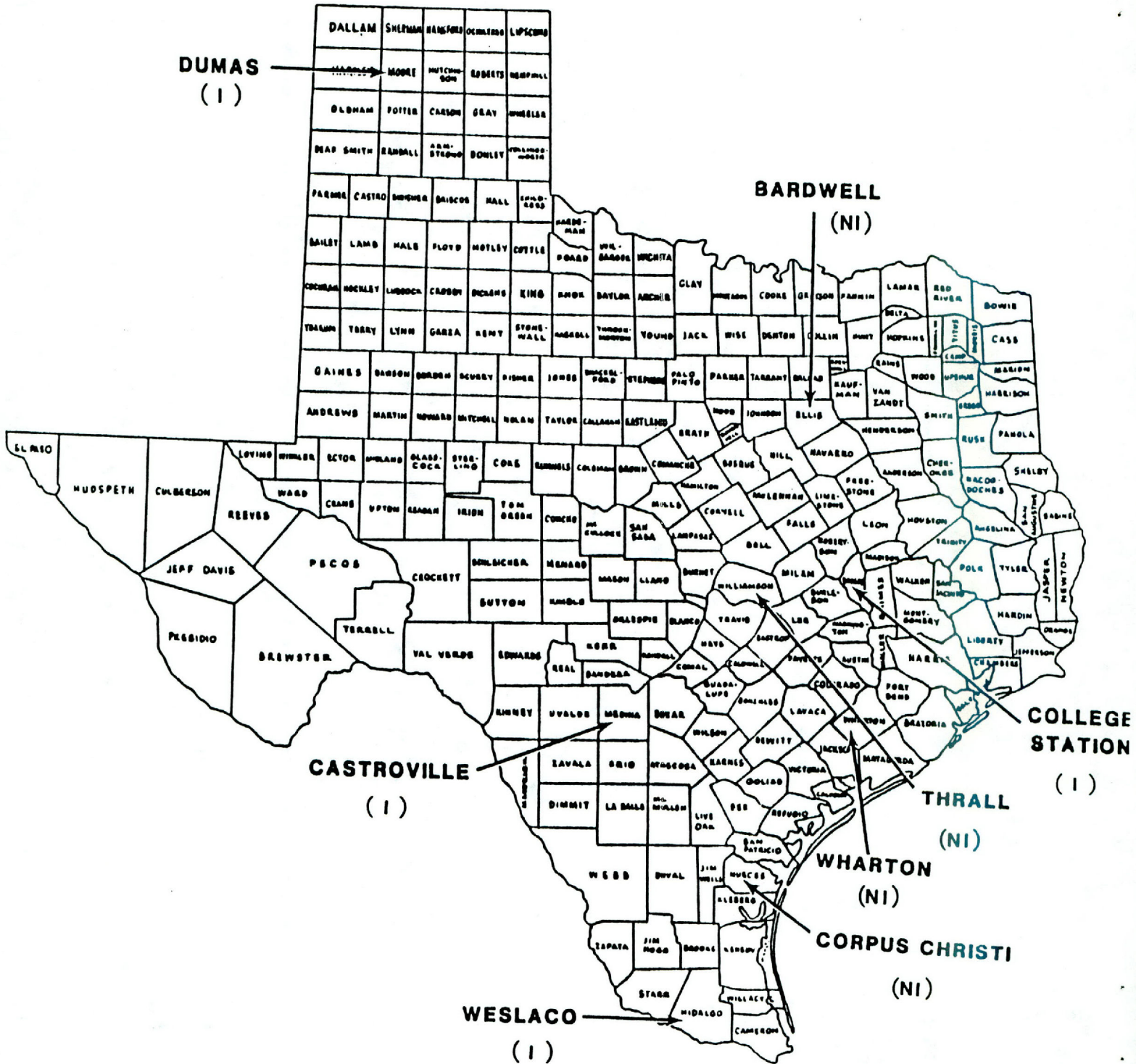


Table 1. Name, address and hybrid designation for participants in the 1989 Texas Corn Performance Test

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
AgriPro Seeds P.O. Box 237 Tekamah, NE 68061	AgriPro AP510	-	-	-	-	-	-	-	X
	AgriPro AP670	-	-	-	-	-	-	-	X
	AgriPro 820	-	-	-	-	-	-	-	X
ASGROW SEED COMPANY Box 1945 Plainview, TX 79022	RX 986	X	X	-	-	X	-	-	-
	XP 9877x	X	X	X	X	X	X	X	-
	XP 9578Wx	X	X	-	-	-	-	-	-
	RX 956W	X	X	-	-	-	-	-	X
	RX 807	-	-	X	X	X	X	X	X
	RX 892	-	-	X	-	X	-	-	-
	RX 908	-	-	X	X	-	-	X	X
	RX 911	-	-	-	X	-	X	-	-
	RX 788	-	-	-	-	-	-	-	X
	Big Crop Seed, Inc. P.O. Box 5866 Lubbock, TX 79417	Toro Brand Bonito	X	X	X	X	X	X	X
Toro Brand Champion		X	-	-	-	-	-	-	X
Cargill Hybrid Seeds P.O. Box 5645 Minneapolis, MN 55440	9427	-	-	X	X	X	X	X	-
	8527	-	-	X	X	X	X	X	-
	7877	-	-	-	-	X	X	X	X
	8027	-	-	-	-	X	-	-	-
	7993	-	-	-	-	-	-	-	X
Columbia Seed Co. 1607 57th Street Lubbock, TX 79412	CS 7020	X	-	-	-	-	-	-	-
	CS 7030	X	-	-	-	-	-	-	-
Conlee Seed Company, Inc. P.O. Box 23219 Waco, TX 76702-3219	8850	X	X	-	X	X	X	X	X
	8522	-	-	X	X	X	X	-	X
	8830	-	-	-	X	-	-	-	-

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
DEKALB-PFIZER GENETICS 3100 Sycamore Rd DeKalb, IL 60115	EXP 974(X)	X	X	X	X	-	-	-	-
	DK 711	-	-	X	X	X	X	-	X
	DK 689	-	-	X	X	X	X	-	-
	DK 649	-	-	X	X	X	X	-	-
	DK 656	-	-	-	-	-	-	-	X
DELTA & PINE LAND CO. 1301 E. 50th Street Lubbock, TX 79404	Deltapine 5750	X	-	X	X	X	X	X	X
	Funk's G-4644w	X	X	-	-	-	-	-	-
	Funk's G-4673B	X	X	X	X	X	X	X	X
	Funk's 6096X	X	-	X	X	-	X	X	-
	Funk's G-4571	-	-	X	X	X	X	X	X
	Funk's G-4666	-	-	X	X	X	X	X	-
	Funk's G-4543	-	-	-	-	X	-	-	-
Funk's G-4513	-	-	-	-	-	-	-	X	
Funk's G-4500	-	-	-	-	-	-	-	X	
DOUGLASS W. KING CO. P.O. Box 200320 San Antonio, TX 78220	5115	X	-	X	-	-	X	X	X
	5116	X	-	X	X	-	X	X	X
	4154A	X	-	X	X	-	X	X	X
	5154	X	-	X	X	-	X	X	X
Frontier Hybrids Inc. P.O. Box 177 Abernathy, TX 79311	Frontier F-3040	-	-	-	-	-	X	-	X
	Frontier F-3030	-	-	-	-	-	-	-	X
	Frontier F-3006	-	-	-	-	-	-	-	X
Garrison Seed & Co., Inc. P.O. Drawer 2420 Hereford, TX 79045	S.G. 8215	X	-	X	X	-	-	X	X
	S.G. 8515	X	-	X	X	-	-	X	X
	S.G. 7202	X	-	-	-	-	-	-	-
	S.G. 8333	-	-	-	-	-	-	-	X

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
Garst Seed Company Eminence Route Garden City, KS 67846	8315	-	-	X	-	-	-	-	-
	N8350X	-	-	X	X	-	X	-	-
	8344	-	-	-	X	-	-	-	-
	8116	-	-	-	-	-	X	-	-
Germain's Seed Company P.O. Box 12447 Fresno, CA 93777	86050	-	X	X	X	-	X	X	X
	86040	-	X	X	X	-	X	X	X
GroAgri Seed Company P.O. Box 1656 Lubbock, TX 79408	EXP 4715X	X	-	-	X	-	-	-	-
	EXP 4172X	X	-	X	-	-	-	-	-
	GSC 2333	-	-	X	X	X	X	-	-
	GSC 2216	-	-	-	X	X	X	-	X
	EXP 4192X	-	-	-	X	-	-	-	X
	EXP 4161X	-	-	-	-	-	X	-	X
	EXP 4625X	-	-	-	-	X	-	-	-
	EXP 4193X	-	-	-	-	-	-	-	X
	EXP 4176X	-	-	-	-	-	-	-	X
	HyPerformer Seed Company 5100 Poplar , Suite 3200 Memphis, TN 38137	HS-97	X	X	-	X	-	-	-
HS-64		X	X	-	-	-	-	-	X
HS-889		X	-	-	X	-	-	-	-
HS-88		-	-	X	X	X	-	-	X
HS-879		-	-	-	X	X	-	-	-
HS-56		-	-	-	-	X	-	-	-
HS-82		-	-	-	-	-	X	-	-
Jacques Seed Company 720 St. Croix Sreet Prescott, WI 54021	7820	-	-	-	-	-	-	-	X
	7910	-	-	-	-	-	-	-	X
	8210	-	-	-	-	-	-	-	X

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
Jacques Seed Company (cont.)	8510	-	-	-	-	-	-	-	X
NC+ Hybrids 3820 N. 56th P.O. Box 4408 Lincoln, NE 68504	NC+ 6414	X	-	X	-	X	-	-	-
	NC+ 7507	X	-	X	X	-	-	-	-
	NC+ 8085	X	-	-	X	-	-	-	-
	NC+ 8828Wx	X	-	-	-	-	-	-	-
The New Northrup King 6139 37th Lubbock, TX 79407	S7759	X	-	X	-	X	X	X	X
	Px 9581	X	-	X	-	-	X	-	-
	S 8505	-	-	X	X	-	-	-	-
	Coker 8690	-	-	X	X	-	-	X	-
	5416X	-	-	-	-	X	-	-	X
	Px 9540	X	-	-	-	-	-	-	-
	N 7816 N 8727	X X	- -	- -	- -	- -	- -	- -	- -
ORO Hybrids 624 27th Street Lubbock, TX 79404	ORO 150	-	-	X	X	X	X	X	X
	ORO 180	-	-	X	X	X	X	X	X
	ORO 190	-	-	X	X	X	X	X	X
	ORO 188 (Exp. 801X)	-	-	-	-	X	X	X	-
	ORO 151	-	-	-	-	X	X	X	-
	ORO EXP807X	-	-	-	-	X	X	X	-
	ORO 120	-	-	-	-	-	-	-	X
	Pioneer Hi-Bred International P.O. Box 788 Plainview, TX 79072	3110 3192 3144W	X X X	- X X	- - X	X - -	- - -	- - -	- - -

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
Pioneer Hi-Bred (cont.)	X861W	X	X	-	-	-	-	-	-
	3165	-	X	X	X	X	X	X	-
	3170	-	X	X	X	X	X	X	-
	3140	-	X	X	X	X	X	X	-
	X8812	-	X	X	X	X	X	X	-
	3379	-	X	X	X	X	X	X	X
	3343	-	-	X	X	X	X	X	-
	3168	-	-	-	-	-	-	-	X
	3124	-	-	-	-	-	-	-	X
	3189	-	-	-	-	-	-	-	X
XC 873	-	-	-	-	-	-	-	X	
Pioneer Overseas 1702 S. International Blvd. Weslaco, TX 78596	3404	X	-	-	-	-	-	-	-
	3428	X	-	-	-	-	-	-	-
SeedCo 103 Erskine Lubbock, TX 79408-2036	SC-119	X	-	X	X	-	X	-	-
SeedTec, Div. of NAPB, Inc. 1420 Ebeling Drive Plainview, TX 79072	ST-7670	-	X	-	X	-	X	-	X
	ST-7750	-	X	X	-	-	-	-	-
	ST-7680	-	X	-	X	-	X	-	X
SEMILLAS MASTER P.O. Box 615 Progreso, TX 78579	M-282-Y	X	-	-	-	-	-	-	-
	M-280-Y	X	-	-	-	-	-	-	-
	M-JALISCO	X	-	-	-	-	-	-	-
	M-PROGRESO	X	-	-	-	-	-	-	-

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
Southern Corn Research P.O. Box 200320 San Antonio, TX 78220	SCR 8	X	-	X	-	-	X	X	X
	SCR 9	X	-	X	-	-	X	X	X
	SCR 10	X	-	X	-	-	X	X	X
	SCR 11	X	-	X	-	-	X	X	X
Taylor-Evans Seed Company P.O. Box 68 Tulia, TX 79088	T-E 6994	X	-	X	X	X	-	X	X
	T-E 6996	X	X	X	-	X	X	X	-
	T-E 6998	X	-	-	-	-	-	-	-
	T-E 7093	X	X	-	-	-	-	-	-
	T-E 6988	-	X	-	X	X	X	X	X
	T-E 7086	-	X	-	-	-	-	X	-
	T-E 7081	-	-	-	X	X	-	-	-
	T-E 8905X	-	-	-	-	X	-	-	X
	T-E 7055	-	-	-	-	-	X	X	X
	T-E 6951	-	-	-	-	-	-	-	X
TEXAS SEED CO, INC. P.O. Drawer 599 221 Airport Blvd. Kenedy, TX 78119	TS 777	-	X	X	X	-	-	-	-
Triumph Seed Co., Inc. P.O. Box 1050 Halls, TX 79357	1595	X	-	-	-	-	-	-	-
	1580	X	-	-	-	-	-	-	-
	2035	X	-	-	-	-	-	-	-
Vineyard Seed Co., Inc. R.R. 1, Box 147 Homer, IL 61849	V68W	-	-	X	X	X	X	-	-
	V68AW	-	-	X	X	X	X	-	-
	V58W	-	-	-	-	X	-	-	X
	FC 540	-	-	-	-	-	-	-	X
	V424W	-	-	-	-	-	-	-	X

Table 1. (continued)

Company & Address	Hybrid	Weslaco	Castroville	Corpus Christi	Wharton	Bardwell	Thrall	College Station	Dumas
WARNER SEED CO., INC. 120 S. Lawton BOX 1448 Hereford, TX 79045	W2160	X	-	X	X	X	X	X	X
	WXC-102	X	-	X	-	-	-	-	X
	WXC-104	X	-	X	-	-	-	-	X
	WXC-150	X	-	X	-	-	-	-	X
	W-2192	-	-	X	X	X	-	-	X
	W-2192-A	-	-	-	X	X	-	-	X
Wilson Hybrids, Inc. P.O. Box 391 Harlan, IA 51537	Wilson 1890	-	-	-	-	-	-	-	X
	Wilson 2300	-	-	-	-	-	-	-	X
	Wilson Exp. 1352(x)	-	-	-	-	-	-	-	X
Texas Agricultural Experiment Station (TAES) College Station, TX 77843	88201Y	X	X	X	X	X	X	X	X
	89201W	X	X	X	X	X	X	X	X
	84202Y	X	X	X	X	X	X	X	X
	89203W	X	-	-	X	X	X	X	X
	89202Y	X	X	-	-	X	-	X	X
	89204Y	-	-	-	-	-	-	-	X
	89205Y	-	-	-	-	-	-	-	X
	89207W	-	-	-	-	-	-	-	X
	89208Y	-	-	-	-	-	-	-	X
	89206Y	-	-	-	-	-	X	X	X
	CHECK 1	X	X	X	X	X	-	X	X
	CHECK 2	X	X	X	X	X	-	X	X
	CHECK 3	-	-	X	X	X	-	-	-
	CHECK 4	-	-	X	-	-	-	-	-

TABLE 2. AGRONOMIC AND TEST INFORMATION: WESLACO

TEST:	1989 Irrigated Corn Performance Test
LOCATION:	Texas A&M University Research and Extension Center, Weslaco, Texas
COOPERATORS:	John Drawe, Ray Castaneda, Dennis Pietsch, and Ralph Morgan
SOIL TYPE:	Hidalgo clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Corn (Spring 1988), Fallow in Fall
LAND PREPARATION:	Disked, moldboard, disked, bedded
DATE PLANTED:	2-20 & 21-89
DATE THINNED:	3-22; thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	186-0-0; applied 232 lb/A liquid 32-0-0 on 2-14-89, and 348 lb/A liquid 32-0-0 on 4-4-89
HERBICIDE:	Prowl (pendimethalin), 1pt/A on 2-24-89
INSECTICIDE:	None
RAINFALL:	February = 0.47"; March = 0.06"; April = 2.68"; May = 0.00"; June = 1.96"; July = 0.69"; Total = 5.86"
IRRIGATIONS:	3-29, 5-11, 5-15 and 5-30; approx. 4"/application
DATE HARVESTED:	7-10 & 11-89, by hand
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	68
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP:	24,037 plants/A
TEST MEAN:	112.7 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	10.1 percent

GENERAL INFORMATION: Weather conditions were not favorable for corn production in this area. An optimum planting date was secured and seedling emergence was rapid. Cold temperatures in early-April reduced plant vigor and hampered early growth and development. Extended periods of hot and dry weather conditions in May required several irrigations to be applied. Although a timely irrigation schedule was followed, the hot weather conditions resulted in partial desiccation of leaves thus reducing potential yields.

The test mean yield of 112.7 bu/A is 45.2 bu/A less than the 1988 test mean and 30.9 bu/A less than the past three-year average of 143.6 bu/A.

Table 2A. CORN PERFORMANCE TEST; WESLACO, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	GRAIN COLOR **	COB COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT			TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****	
								POP. PER ACRE	% SMUT	% LODGED				% BROKEN
NC+ 7507	NC+ Hybrids	Y	R	77	83	34	12.1	25250	2.0	2.0	0.0	58.7	135.8	A
8850	Conlee Seed Co.	Y	P	71	77	27	12.3	27500	0.0	5.5	0.0	58.8	134.3	A-B
S 7759	New Northrup King	Y	R	74	86	30	12.2	23500	0.0	0.0	0.0	59.3	129.4	A-C
SEEDCO SC-119	Seedco Corporation	Y	R	77	82	33	12.3	24000	0.0	0.0	0.0	59.0	128.7	A-D
NC+ 6414	NC+ Hybrids	Y	R	73	81	27	12.4	23750	0.0	2.1	0.0	58.1	128.2	A-E
CHECK 2	Tx. Agri. Exp. Sta.			73	86	33	12.7	27250	0.0	0.0	0.0	57.9	125.9	A-F
T-E 6994	Taylor-Evans Seed	Y	R	73	89	35	12.4	23750	0.0	4.2	1.1	58.2	125.8	A-F
N 7816	New Northrup King	Y	R	74	83	30	12.2	27750	0.0	0.9	0.0	58.2	124.9	A-G
WXC-102	WARNER SEED CO.	Y	R	72	82	26	12.2	25750	1.0	1.9	0.0	59.9	124.4	A-H
1580	Triumph Seed Co.	Y	R	73	85	30	12.3	24250	0.0	1.0	0.0	59.3	123.9	A-H
NC+ 8085	NC+ Hybrids	Y	R	73	86	30	13.3	23250	0.0	0.0	0.0	58.9	123.5	A-H
S.G. 8515	Garrison Seed & Co.	Y	R	72	84	28	12.1	24000	0.0	0.0	0.0	59.6	121.7	A-I
PX 9581	New Northrup King	Y	R	71	86	31	13.0	23250	0.0	5.4	0.0	58.8	121.4	A-J
2035	Triumph Seed Co.	Y	R	74	89	31	12.5	24000	0.0	1.0	0.0	59.2	121.2	A-J
W-2160	WARNER SEED CO.	Y	R	73	88	32	12.3	25750	0.0	1.9	1.0	59.2	121.1	A-J
T-E 7093	Taylor-Evans Seed	Y	R	76	81	26	14.3	24500	1.0	4.1	0.0	61.4	121.1	A-J
1595	Triumph Seed Co.	Y	R	72	81	28	12.3	23250	0.0	1.1	0.0	59.7	120.9	A-J
Funk's G-4673B	DELTA AND PINE LAND	Y	R	74	85	31	12.2	25250	0.0	5.0	1.0	58.4	120.6	A-K
Deltapine 5750	DELTA AND PINE LAND	Y	R	72	84	28	12.7	23250	0.0	1.1	0.0	59.7	120.0	A-L
EXP. 89202Y	Tx. Agri. Exp. Sta.	Y	W	74	86	36	13.3	26750	0.0	18.7	0.0	58.5	119.8	A-L
S.G. 8215	Garrison Seed & Co.	Y	R	72	83	32	11.8	25250	2.0	4.0	0.0	58.4	119.5	A-L
KING'S 5154	DOUGLASS W. KING	Y	R	76	82	33	13.3	23750	0.0	2.1	0.0	59.0	119.2	A-M
PX 9540	New Northrup King	Y	R	71	81	26	12.3	24500	0.0	0.0	0.0	59.5	118.8	A-N
CS 7020	Columbia Seeds	W	W	73	85	27	13.5	24500	0.0	3.1	1.0	61.7	118.7	A-N
CS 7030	Columbia Seeds	Y	R	72	84	27	12.4	26500	0.0	0.9	0.0	57.7	116.5	A-N
Funk's 6096x	DELTA AND PINE LAND	Y	R	73	82	31	13.4	26750	0.0	2.8	0.0	58.7	116.4	A-N
Toro Brand Champion	Big Crop Seed, Inc.	Y	R	72	84	30	12.5	22750	0.0	3.3	0.0	57.4	115.9	A-O
WXC-150	WARNER SEED CO.	Y	R	70	84	26	12.0	26000	1.9	0.0	0.0	60.1	115.9	A-O
EXP. 84202Y	Tx. Agri. Exp. Sta.	Y	P	76	86	38	13.4	26000	0.0	10.6	0.0	57.9	115.6	B-O
WXC-104	WARNER SEED CO.	Y	R	72	84	32	11.9	24500	1.0	6.1	1.0	58.3	114.9	B-O
SCR 8	Southern Corn Res.	Y	R	73	84	29	12.3	24500	5.1	7.1	0.0	58.5	114.8	B-O
N 8727	New Northrup King	Y	R	73	90	25	12.7	23000	1.1	2.2	1.1	61.4	114.7	B-O
EXP 974(X)	DEKALB-PFIZER GEN.	Y	P	74	84	32	13.1	23250	0.0	2.2	0.0	59.9	114.2	C-O
T-E 6996	Taylor-Evans Seed	Y	R	76	87	33	12.4	21750	0.0	16.1	1.1	61.0	114.0	C-O
Funk's G-4644W	DELTA AND PINE LAND	W	W	76	85	33	13.6	23250	0.0	6.5	0.0	60.5	113.8	C-O
EXP. 89201W	Tx. Agri. Exp. Sta.	W	W	72	79	31	12.9	24000	0.0	22.9	0.0	57.2	113.5	C-O
EXP 4172X	GroAgri Seed Co.	Y	R	75	84	33	12.5	24750	0.0	5.1	0.0	58.3	113.0	C-P
HS-64	HyPerformer Seed	Y	R	72	83	27	12.1	24250	1.0	9.3	0.0	59.3	112.6	C-P
KING'S 4154A	DOUGLASS W. KING	Y	R	73	83	28	12.3	23250	1.1	3.2	0.0	58.8	112.4	C-P
3428	Pioneer Overseas	W	W	76	85	33	14.4	24250	2.1	9.3	0.0	60.2	111.9	C-P
CHECK 1	Tx. Agri. Exp. Sta.			76	80	29	11.8	24750	0.0	2.0	0.0	55.8	111.4	C-P

Table 2A. CORN PERFORMANCE TEST; WESLACO, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	GRAIN COLOR **	COB COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
Toro Brand Bonito	Big Crop Seed, Inc.	Y	R	71	84	27	12.3	23500	0.0	4.3	0.0	58.2	110.7	C-P
3144W	Pioneer Hi-Bred	W	W	75	82	33	12.7	23000	1.1	5.4	0.0	58.3	110.4	C-P
EXP 4175X	GroAgri Seed Co.	Y	R	76	81	28	14.6	19500	1.3	0.0	0.0	60.8	109.4	C-P
XP 9578 Wx	ASGROW SEED CO.	W	W	76	87	29	13.2	23750	0.0	2.1	0.0	60.7	109.0	D-P
T-E 6998	Taylor-Evans Seed	Y	R	76	87	30	13.0	26250	0.0	2.9	0.0	59.4	108.8	D-P
EXP. 89203W	Tx. Agri. Exp. Sta.	W	W	73	85	36	13.0	25250	0.0	70.3	0.0	59.0	108.6	D-P
XP 9877x	ASGROW SEED CO.	Y	W	76	89	35	12.2	24000	0.0	8.3	2.1	57.8	108.2	E-P
SCR 11	Southern Corn Res.	Y	R	76	86	29	12.3	23250	1.1	0.0	0.0	59.4	108.0	E-P
EXP. 88201Y	Tx. Agri. Exp. Sta.	Y	W	77	90	39	14.2	24750	0.0	7.1	0.0	58.6	107.9	F-P
3192	Pioneer Hi-Bred	Y	W	72	79	25	13.3	25000	1.0	4.0	0.0	61.2	107.6	F-P
3404	Pioneer Overseas	Y	R	76	85	28	13.0	26250	0.0	9.5	1.0	58.7	106.4	F-P
SCR 10	Southern Corn Res.	Y	R	76	86	29	12.3	24500	2.0	1.0	0.0	60.0	105.4	G-P
KING'S 5115	DDUGLASS W. KING	Y	R	76	82	28	12.8	23750	1.1	3.2	1.1	60.4	105.1	G-P
S.G. 7202	Garrison Seed & Co.	W	W	74	80	29	14.3	22250	0.0	15.7	0.0	60.7	104.7	G-P
M-282-Y	SEMILLAS MASTER	Y	R	73	90	32	12.8	22250	0.0	5.6	1.1	60.5	104.2	H-P
SCR 9	Southern Corn Res.	Y	R	76	81	34	12.6	23000	0.0	5.4	2.2	58.3	102.6	I-P
KING'S 5116	DDUGLASS W. KING	Y	R	76	85	28	12.8	24750	3.0	0.0	0.0	60.5	101.2	J-P
HS-97	HyPerformer Seed	Y	R	76	87	34	12.4	19500	0.0	5.1	0.0	58.9	101.1	J-P
M-280-Y	SEMILLAS MASTER	Y	R	76	87	29	13.2	18000	0.0	0.0	1.4	59.8	100.6	K-P
X861W	Pioneer Hi-Bred	W	W	74	83	28	12.1	21500	0.0	0.0	0.0	61.1	100.6	K-P
3110	Pioneer Hi-Bred	Y	W	78	82	29	12.8	25250	1.0	0.0	0.0	59.8	100.0	L-P
NC+ 8828WX	NC+ Hybrids	W	W	73	90	32	12.7	24500	0.0	11.2	4.1	58.9	99.2	M-P
Rx 956 W	ASGROW SEED CO.	W	W	76	85	29	14.0	23500	1.1	1.1	0.0	60.4	98.7	N-P
Rx 986	ASGROW SEED CO.	Y	W	75	86	34	12.9	24750	0.0	4.0	2.0	57.7	96.1	O-P
HS-889	HyPerformer Seed	Y	R	75	82	31	12.6	21500	1.2	3.5	0.0	58.6	93.2	P-Q
M-JALISCO	SEMILLAS MASTER	W	W	79	95	45	14.6	21750	1.1	27.6	1.1	59.1	79.2	Q-R
M-PROGRESO	SEMILLAS MASTER	W	W	80	95	48	14.7	21750	2.3	20.7	0.0	58.5	65.8	R

TEST MEAN= 112.7 TEST C.V.=10.1 LSD .05= 15.8

Note: 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.

* DR0 Hybrid DR0 180 and DeKalb DK 689 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

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

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

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

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

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 7507	NC+ Hybrids	1	135.8	4	177.2	4	159.8
8850	Conlee Seed Company, Inc.	2	134.3	35	160.6	—	—
S7759	The New Northrup King	3	129.4	17	169.9	—	—
SEEDCO SC-119	SeedCo Corporation	4	128.7	—	—	—	—
NC+ 6414	NC+ Hybrids	5	128.2	47	157.4	16	149.3
ORO 180	ORO Hybrids	6	125.9	—	—	—	—
T-E 6994	Taylor-Evans Seed Company	7	125.8	11	173.8	70	128.5
N 7816	The New Northrup King	8	124.9	—	—	—	—
WXC-102	WARNER SEED COMPANY, INC.	9	124.4	—	—	—	—
1580	Triumph Seed Company, Inc.	10	123.9	—	—	—	—
NC+ 8085	NC+ Hybrids	11	123.5	15	171.1	—	—
S.G. 8515	Garrison Seed & Company, Inc.	12	121.7	—	—	—	—
PX 9581	The New Northrup King	13	121.4	34	160.7	26	144.2
2035	Triumph Seed Company, Inc.	14	121.2	49	156.8	—	—
W-2160	WARNER SEED COMPANY, INC.	15	121.1	23	165.4	71	127.7
T-E 7093	Taylor-Evans Seed Company	16	121.1	—	—	—	—
1595	Triumph Seed Company, Inc.	17	120.9	—	—	54	134.9
Funk's G-4673B	DELTA & PINE LAND COMPANY	18	120.6	14	171.4	—	—
Deltapine 5750	DELTA & PINE LAND COMPANY	19	120.0	—	—	—	—
Exp. 89202Y	Tx. Agri. Exp. Stat.	20	119.8	—	—	—	—
S.G. 8215	Garrison Seed & Company, Inc.	21	119.5	89	134.6	42	138.8
KING'S 5154	DOUGLASS W. KING COMPANY	22	119.2	—	—	—	—
Px 9540	The New Northrup King	23	118.8	—	—	—	—
CS 7020	Columbia Seed Company	24	118.7	63	151.5	—	—
CS 7030	Columbia Seed Company	25	116.5	27	163.0	—	—

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Funk's 6096x	DELTA & PINE LAND COMPANY	26	116.4	-	-	-	-
Toro Brand Champion	Big Crop Seed, Inc.	27	115.9	-	-	-	-
WXC-150	WARNER SEED COMPANY, INC	28	115.9	-	-	-	-
Exp. 84202Y	Tx. Agri. Exp. Sta.	29	115.6	1	179.0	21	147.1
WXC-104	WARNER SEED COMPANY, INC.	30	114.9	-	-	-	-
SCR 8	Southern Corn Research	31	114.8	18	169.5	56	134.7
N 8727	The New Northrup King	32	114.7	-	-	-	-
EXP 974(x)	DEKALB-PFIZER GENETICS	33	114.2	-	-	-	-
T-E 6996	Taylor-Evans Seed Company	34	114.0	12	172.2	32	143.1
Funk's G-4644W	DELTA & PINE LAND COMPANY	35	113.8	-	-	-	-
EXP. 89201W	Tx. Agri. Exp. Stat.	36	113.5	-	-	-	-
EXP. 4172X	GroAgri Seed Company	37	113.0	85	143.5	-	-
HS-64	HyPerformer Seed Company	38	112.6	-	-	-	-
KING'S 4154A	DOUGLASS W. KING COMPANY	39	112.4	24	165.1	-	-
3428	Pioneer Overseas	40	111.9	-	-	-	-
DK 689	DEKALB-PFIZER GENETICS	41	111.4	7	176.3	-	-
Toro Brand Bonito	Big Crop Seed, Inc.	42	110.7	-	-	-	-
3144W	Pioneer Hi-Bred International, Inc.	43	110.4	43	158.0	-	-
EXP. 4175X	GroAgri Seed Company	44	109.4	-	-	-	-
XP 9578Wx	ASGROW SEED COMPANY	45	109.0	-	-	-	-
T-E 6998	Taylor-Evans Seed Company	46	108.8	9	175.1	1	163.5
EXP. 89203W	Tx. Agri. Exp. Stat.	47	108.6	-	-	-	-
XP 9877x	ASGROW SEED COMPANY	48	108.2	-	-	-	-
SCR 11	Southern Corn Research	49	108.0	-	-	-	-
EXP. 88201Y	Tx. Agri. Exp. Stat.	50	107.9	13	171.1	-	-

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3192	Pioneer Hi-Bred International, Inc.	51	107.6	83	144.6	—	—
3404	Pioneer Overseas	52	106.4	—	—	—	—
SCR 10	Southern Corn Research	53	105.4	—	—	—	—
KING'S 5115	DOUGLASS W. KING COMPANY	54	105.1	—	—	—	—
S.G. 7202	Garrison Seed & Company, Inc.	55	104.7	—	—	—	—
M-282-Y	SEMILLAS MASTER DE MEXICO, S.A.	56	104.2	19	167.6	12	150.4
SCR 9	Southern Corn Research	57	102.6	—	—	—	—
KING'S 5116	DOUGLASS W. KING COMPANY	58	101.2	—	—	—	—
HS-97	HyPerformer Seed Company	59	101.1	—	—	—	—
M-280-Y	SEMILLAS MASTER DE MEXICO, S.A.	60	100.6	36	160.5	69	129.1
X861W	Pioneer Hi-Bred International, Inc.	61	100.6	—	—	—	—
3110	Pioneer Hi-Bred International, Inc.	62	100.0	79	147.3	96	111.5
NC+ 8828Wx	NC+ Hybrids	63	99.2	—	—	—	—
Rx 956 W	ASGROW SEED COMPANY	64	98.7	81	146.3	13	150.3
Rx 986	ASGROW SEED COMPANY	65	96.1	—	—	—	—
HS-889	HyPerformer Seed Company	66	93.2	—	—	—	—
M-JALISCO	SEMILLAS MASTER DE MEXICO, S.A.	67	79.2	—	—	—	—
M-PROGRESO	SEMILLAS MASTER DE MEXICO, S.A.	68	65.8	—	—	—	—
9427R	CARMEX	—	—	2	178.3	41	138.8
1650 FG	Triumph Seed Company, Inc.	—	—	5	176.6	51	135.4
SX 379	CARMEX	—	—	10	174.0	6	158.1
113-W	Conlee Seed Company, Inc.	—	—	16	170.1	45	137.5
1990W	Triumph Seed Company, Inc.	—	—	21	165.9	46	137.4
SCR 6	Southern Corn Research	—	—	28	162.4	15	149.4
WAC 915	SeedTec, Division of NAPB, Inc.	—	—	29	162.3	5	158.5

Table 2B. Weslaco, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
M-284-Y	SEMILLAS MASTER DE MEXICO, S.A.	--	--	30	162.3	36	141.9
ST 7625	SeedTec, Division of NAPB, Inc.	--	--	39	159.4	90	119.3
TR 3303	Big Crop Seed, Inc.	--	--	40	158.9	38	141.9
2460 W	Triumph Seed Company, Inc.	--	--	46	157.4	89	119.8
S.G. 8333	Garrison Seed & Company, Inc.	--	--	51	156.6	34	142.5
NC+ 8141	NC+ Hybrids	--	--	53	155.4	84	124.3
2020	Triumph Seed Company, Inc.	--	--	55	154.8	18	148.0
W-2192	WARNER SEED COMPANY, INC.	--	--	60	152.6	61	132.1
8631	Conlee Seed Company, Inc.	--	--	68	150.7	7	157.9
8990	CARMEX	--	--	71	150.2	37	141.9
3165	Pioneer Hi-Bred International, Inc.	--	--	78	148.0	67	130.1
SCR 3	Southern Corn Research	--	--	84	144.2	2	162.2
Number Entries:		68		91		102	
Test Mean Yield:		112.7		157.9		134.8	

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

TABLE 3. AGRONOMIC AND TEST INFORMATION: CASTROVILLE

TEST:	1989 Irrigated Corn Performance Test
LOCATION:	Henry Lee Keller Farm, Castroville, Texas
COOPERATORS:	Wayne Scholtz, Bobby Ainsley, Dennis Pietsch, Randy Gaas, and Leon Synatschk
SOIL TYPE:	Knippa clay
ROW WIDTH:	32"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Shred stalks, disked twice, moldboard, disked, bedded and rod-weeded prior to planting
DATE PLANTED:	3-13-89, hand dropped behind a JD 80 planter
DATE THINNED:	4-4, thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	Applied 350 lb/A of 8-16-4-2 preplant; 125 lb/A of 82-0-0 after emergence; and 300 lb/A of 32-0-0 at first cultivation
HERBICIDE:	1 qt/A of Roundup (Glyphosate) prior to shredding stalks in 1988 and 7 lb/A of Lasso (alachlor) at planting
INSECTICIDE:	Approximately 8 lb/A Counter (terbufos) at planting and 5 lb/A of Furadan (Carbofuran) in whorl at last cultivation
RAINFALL:	Approximately 3" during growing season
IRRIGATIONS:	Applied 6 irrigations of approximately 3" each during growing season
DATE HARVESTED:	8-2 & 3-89, by hand
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	38
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP.:	24,059 plants/A
TEST MEAN:	150.4 bu/A; yields corrected to 15.5% moisture
TEST C. V.:	7.2 percent

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

A timely irrigation schedule, good plant stands and excellent agronomic and cultural practices resulted in outstanding yields at this test site. Seedling emergence was rapid and excellent plant stands were secured at thinning. The test blocks received approximately 3 inches of rainfall during the growing season. Hot and dry weather conditions warranted six irrigations which insured continuous plant growth and development.

Yields in the test ranged from 119.8 bu/A to 181.8 bu/A with seven hybrids produced over 160 bu/A. Lodging occurred in all but 11 hybrids with the range being from 0.9 to 26.6 percent. Broken plants and smut were not observed in the test. Excellent test weights were recorded with the range being from 58.3 to 63.1 lbs/bu.

Table 3A. CORN PERFORMANCE TEST; CASTROVILLE, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	GRAIN COLOR **	COB COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT			TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****	
								POP. PER ACRE	% SMUT	% LOGGED				% BROKEN
XP 9877x	ASGROW SEED CO.	Y	W	71	104	47	15.5	23500	0.0	3.2	0.0	59.5	181.8	A
EXP. 88201Y	Tx. Agri. Exp. Sta.	Y	W	72	107	51	16.1	23000	0.0	2.2	0.0	60.1	169.0	A-B
EXP. 84202Y	Tx. Agri. Exp. Sta.	Y	P	73	106	52	15.8	23500	0.0	3.2	0.0	60.1	165.3	B-C
3144W	Pioneer Hi-Bred	W	W	71	106	45	14.9	23750	0.0	3.2	0.0	58.3	163.9	B-D
EXP. 89202Y	Tx. Agri. Exp. Sta.	Y	W	72	103	45	14.7	24500	0.0	13.3	0.0	60.2	163.4	B-D
T-E 7093	Taylor-Evans Seed	Y	R	73	104	44	16.6	26000	0.0	0.0	0.0	61.5	162.0	B-E
XP 9578Wx	ASGROW SEED CO.	W	W	71	104	39	15.7	23250	0.0	1.1	0.0	61.9	161.8	B-F
3165	Pioneer Hi-Bred	Y	R	74	103	37	14.1	26000	0.0	1.9	0.0	60.0	158.5	B-G
EXP. 974(X)	DEKALB-PFIZER GEN	Y	P	71	105	43	15.3	25250	0.0	0.0	0.0	60.7	157.9	B-G
T-E 7086	Taylor-Evans Seed	Y	R	71	98	42	15.7	22250	0.0	0.0	0.0	59.5	157.9	B-G
CHECK 3	Tx. Agri. Exp. Sta.			74	108	47	17.7	23250	0.0	8.6	0.0	59.3	155.8	B-G
RX 956 W	ASGROW SEED CO.	W	W	72	101	41	13.9	24000	0.0	0.0	0.0	62.6	154.5	B-G
8850	Conlee Seed Co.	Y	P	69	96	40	13.1	23500	0.0	0.0	0.0	60.7	154.4	B-G
T-E 6988	Taylor-Evans Seed	Y	R	70	97	39	11.7	24750	0.0	2.0	0.0	59.8	154.2	B-G
CHECK 4	Tx. Agri. Exp. Sta.			70	105	40	12.7	22500	0.0	1.1	0.0	60.8	153.5	B-H
Germain's 86050	Germain's Seed Co.	Y	R	69	94	36	12.6	28750	0.0	1.7	0.0	61.8	152.8	B-H
TS 777	TEXAS SEED CO.	Y	R	70	99	36	12.9	25250	0.0	1.0	0.0	62.0	152.2	B-H
Rx 986	ASGROW SEED CO.	Y	W	71	102	37	16.0	25500	0.0	0.0	0.0	59.1	151.9	B-H
Funk's G-4673B	DELTA AND PINE LAND	Y	R	71	101	41	13.0	25500	0.0	1.0	0.0	61.1	151.9	B-H
CHECK 1	Tx. Agri. Exp. Sta.			72	101	41	12.6	21000	0.0	0.0	0.0	59.9	148.2	C-H
Funk's G-4644W	DELTA AND PINE LAND	W	W	72	106	45	13.2	25750	0.0	9.7	0.0	62.0	147.9	C-H
T-E 6996	Taylor-Evans Seed	Y	R	71	108	46	14.7	21750	0.0	6.9	0.0	62.0	147.3	C-H
CHECK 2	Tx. Agri. Exp. Sta.			70	97	41	11.7	23250	0.0	0.0	0.0	60.2	147.0	C-H
3142	Pioneer Hi-Bred	Y	R	72	107	43	12.9	20250	0.0	2.5	0.0	60.6	146.5	C-H
3170	Pioneer Hi-Bred	Y	P	70	103	36	12.8	22000	0.0	6.8	0.0	60.1	146.5	C-H
HS-97	HyPerformer Seed	Y	R	71	103	43	12.5	23500	0.0	1.1	0.0	61.0	145.4	D-H
ST-7680	SeedTec, Div. NAPB	Y	R	69	98	38	12.1	26000	0.0	1.0	0.0	61.1	145.1	D-H
Germain's 86040	Germain's Seed Co.	Y	R	69	95	34	13.0	27000	0.0	0.9	0.0	61.6	143.8	E-H
EXP. 89201W	Tx. Agri. Exp. Sta.	W	W	70	100	44	13.3	23500	0.0	26.6	0.0	59.3	143.4	E-H
ST-7670	SeedTec, Div. NAPB	Y	R	70	98	38	11.9	23500	0.0	1.1	0.0	61.2	143.1	E-H
3140	Pioneer Hi-Bred	Y	P	73	104	44	13.8	24000	0.0	0.0	0.0	59.4	142.9	F-H
HS-88	HyPerformer Seed	Y	W	70	98	39	15.0	24000	0.0	0.0	0.0	61.7	142.6	G-H
3192	Pioneer Hi-Bred	Y	W	70	97	35	13.3	26000	0.0	0.0	0.0	63.1	142.4	G-H
3379	Pioneer Hi-Bred	Y	P	69	102	39	11.7	26000	0.0	0.0	0.0	58.5	142.1	G-H
HS-64	HyPerformer Seed	Y	R	70	103	37	12.3	26250	0.0	1.0	0.0	60.6	140.3	G-H
Toro Brand Bonito	Big Crop Seed, Inc.	Y	R	70	98	37	12.5	22250	0.0	0.0	0.0	59.8	134.9	H-I
X861W	Pioneer Hi-Bred	W	W	70	96	34	12.0	21500	0.0	0.0	0.0	62.8	123.5	I
EXP. 89206Y	Tx. Agri. Exp. Sta.	Y	W	70	92	38	13.7	22750	0.0	2.2	0.0	60.6	119.8	I

TEST MEAN= 150.4 TEST C.V.= 7.2 LSD .05= 15.2

Table 3A. CORN PERFORMANCE TEST; CASTROVILLE, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	GRAIN	COB	DAYS	PLANT	EAR	MOIS-	PLANT				TEST	YIELD	STAT
		COLOR **	COLOR ***	TO 50% SILK	HT. IN.	HT. IN.	TURE %	PER ACRE	% SMUT	% LODGED	% BROKEN	WT. lb/bu		bu/A

Note: 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 405W, Warner W-2160, DeKalb DK 689 and ORO Hybrids ORO 150 were used as commercial check hybrids at our discretion and should be used for comparison purposes only.

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

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

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

Table 3B. Three-Year Summary, Corn Performance Test, Castroville, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
XP9877x	ASGROW SEED COMPANY	1	181.8	—	—	—	—
EXP. 88201Y	Tx. Agri. Exp. Stat.	2	169.0	38	116.6	—	—
EXP. 84202Y	Tx. Agri. Exp. Stat.	3	165.3	10	154.8	8	157.0
3144W	Pioneer Hi-Bred International, Inc.	4	163.9	35	120.6	7	157.3
EXP. 89202Y	Tx. Agri. Exp. Stat.	5	163.4	—	—	—	—
T-E 7093	Taylor-Evans Seed Company	6	162.0	—	—	—	—
XP 9578Wx	ASGROW SEED COMPANY	7	161.8	—	—	—	—
3165	Pioneer Hi-Bred International, Inc.	8	158.5	17	136.0	26	143.3
EXP. 947(x)	DEKALB-PFIZER GENETICS	9	157.9	—	—	—	—
T-E 7086	Taylor-Evans Seed Company	10	157.9	—	—	—	—
DK 689	DEKALB-PFIZER GENETICS	11	155.8	11	145.5	—	—
Rx 956W	ASGROW SEED COMPANY	12	154.4	21	132.2	22	144.9
8850	Conlee Seed Company, Inc.	13	154.4	—	—	—	—
T-E 6988	Taylor-Evans Seed Company	14	154.2	6	150.5	—	—
ORO 150	ORO Hybrids	15	153.5	23	129.6	34	135.9
Germain's 86050	Germain's Seed Company	16	152.8	—	—	—	—
TS 777	TEXAS SEED CO., INC.	17	152.2	25	128.2	—	—
Rx 986	ASGROW SEED COMPANY	18	151.9	—	—	—	—
Funk's G-4673B	DELTA AND PINE LAND CO.	19	151.9	40	115.4	—	—
CHECK 1	Tx. Agri. Exp. Stat.	20	148.2	—	—	—	—
Funk's G4644W	DELTA AND PINE LAND CO.	21	147.9	32	122.0	—	—
T-E 6996	Taylor-Evans Seed Company	22	147.3	—	—	6	157.8
W-2160	WARNER SEED CO., INC.	23	147.0	2	153.6	—	—
3142	Pioneer Hi-Bred International, Inc.	24	146.5	—	—	—	—
3170	Pioneer Hi-Bred International, Inc.	25	146.5	—	—	—	—
HS-97	HyPerformer Seed Company	26	145.4	—	—	—	—
ST-7680	SeedTec, Div. of NAPB, Inc.	27	145.1	27	127.1	—	—
Germain's 86040	Germain's Seed Company	28	143.8	—	—	—	—
EXP. 89201W	Tx. Agri. Exp. Stat.	29	143.4	—	—	—	—
ST-7670	SeedTec, Div. of NAPB, Inc.	30	143.1	—	—	—	—

Table 3B. Castroville, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3140	Pioneer Hi-Bred International, Inc.	31	142.9	50	100.8	—	—
HS-88	HyPerformer Seed Company	32	142.6	—	—	—	—
3192	Pioneer Hi-Bred International, Inc.	33	142.4	18	134.3	—	—
3379	Pioneer Hi-Bred International, Inc.	34	142.1	—	—	—	—
HS-64	HyPerformer Seed Company	35	140.3	—	—	—	—
Toro Brand Bonito	Big Crop Seed, Inc.	36	134.9	—	—	—	—
X861W	Pioneer Hi-Bred International, Inc.	37	123.5	—	—	—	—
EXP. 89206Y	Tx. Agri. Exp. Stat.	38	119.8	—	—	—	—
WAC 915	SeedTec, Div. of NAPB, Inc.	—	—	7	150.4	2	165.9
PS 799	TEXAS SEED COMPANY	—	—	12	144.5	17	148.5
113-W	Conlee Seed Company	—	—	13	144.0	15	149.0
S.G. 8333	Garrison Seed & Company	—	—	15	140.2	38	131.4
3110	Pioneer Hi-Bred International, Inc.	—	—	16	137.2	11	151.1
ORO 180	ORO Hybrids	—	—	36	119.7	4	160.4
T-E 6994	Taylor-Evans Seed Company	—	—	44	108.1	20	146.5
8631	Conlee Seed Company, Inc.	—	—	45	107.0	19	146.9
H-2625W	SeedTec, Div. of NAPB, Inc.	—	—	47	105.4	10	151.2
S.G. 8215	Garrison Seed & Company	—	—	52	97.2	42	129.4
Number of Entries:		38		55		50	
Test Mean Yield:			150.4		125.1		141.4

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

TABLE 4. AGRONOMIC AND TEST INFORMATION: WHARTON

TEST:	1989 Dryland Corn Performance Test
LOCATION:	Julius Kalina Farm, Wharton, Texas
COOPERATORS:	Julius Kalina, Dennis Pietsch, Randy Gaas, John Cospes, Benard Mitchell, and Leon Synatschk
SOIL TYPE:	Asa sandy clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Shred stalks, disked (2), bedded, hipped, re-bed, hipped, hipped and fertilized, harrowed beds
DATE PLANTED:	3-15-89, hand dropped behind JD Max-Emerge planter
DATE THINNED:	4-12-89; thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	Banded 650 lb/A of 21-7-3 in February
HERBICIDE:	Broadcast 1 qt/A AAtrex (atrazine) + Lasso (alachlor) pre-emerge
INSECTICIDE:	5 lb/A Counter 15G (terbufos) at planting
RAINFALL:	Jan = 3.2"; Feb = 2.3"; March = 2.8"; April = 1.7"; May = 6.1"; June = 5.7"; July = 6.2"; Total = 28.0"
IRRIGATIONS:	None
DATE HARVESTED:	7-31-89, by hand
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	71
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP.:	22,518 plants/A
TEST MEAN:	133.3 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	12.6 percent

GENERAL INFORMATION: Being one of the major corn producing areas in Texas, 22 commercial seed companies and the Texas Agricultural Experiment Station entered 71 hybrids at this test site. It is interesting to note that this is the 26th year a performance test has been conducted by the same cooperator in this area without a failure. Average yields were attained at this test site due to timely rainfall, good plant stands, and good cultural practices. Wet soil conditions delayed the optimum planting date approximately 2-3 weeks. Seedling emergence was rapid and excellent plant stands were secured after thinning. Abundant soil moisture from timely rainfall throughout the growing season provided for continuous plant growth development.

The test mean yield was 133.3 bu/A compared to the past 5-year average of 135.0 bu/A and 36 bu/A less than 1988.

Table 4A. CORN PERFORMANCE TEST; WHARTON, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT			TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****	
								POP. PER ACRE	% SMUT	% LODGED				% BROKEN
NC+ 7507	NC+ Hybrids	R	Y	70	96	40	16.7	21250	0.0	11.8	0.0	58.8	157.3	A
3165	Pioneer Hi-Bred	R	Y	71	90	35	19.0	21250	0.0	3.5	0.0	57.3	151.7	A-B
CHECK 3	Tx. Agri. Exp. Sta.			71	96	40	16.3	23250	0.0	1.1	0.0	58.6	150.9	A-B
NC+ 8085	NC+ Hybrids	R	Y	69	98	36	17.2	21250	0.0	0.0	0.0	58.6	150.4	A-B
Seedco 119	Seedco Corporation	R	Y	72	91	37	16.2	27750	0.0	0.9	0.0	57.6	150.2	A-B
CHECK 2	Tx. Agri. Exp. Sta.			69	96	39	19.4	24250	0.0	5.2	0.0	56.3	150.1	A-B
Funk's G-4666	DELTA AND PINE LAND	R	Y	68	96	38	16.9	21250	0.0	0.0	0.0	59.6	149.8	A-C
EXP. 84202Y	Tx. Agri. Exp. Sta.	P	Y	71	102	49	18.7	21250	0.0	24.7	0.0	57.1	149.7	A-D
3140	Pioneer Hi-Bred	P	Y	71	98	38	17.8	20000	0.0	1.2	0.0	57.7	148.4	A-D
RX 911	ASGROW SEED CO.	R	Y	68	101	37	16.9	22250	0.0	0.0	0.0	59.7	148.4	A-D
T-E 6994	Taylor-Evans Seed	R	Y	67	92	39	16.0	23250	0.0	5.4	0.0	57.9	146.7	A-E
DK 711	DEKALB-PFIZER GEN.	P	Y	68	94	33	16.6	24500	0.0	0.0	0.0	59.8	146.7	A-E
EXP. 88201Y	Tx. Agri. Exp. Sta.	W	Y	70	97	45	19.0	24250	0.0	41.2	0.0	56.6	146.5	A-E
8527	Cargill Hybrid	R	Y	68	97	36	16.8	23250	0.0	0.0	0.0	59.7	145.2	A-F
KING'S 5154	DOUGLASS W. KING	R	Y	69	94	41	18.3	19250	0.0	2.6	0.0	57.4	144.8	A-F
ST-7670	SeedTec, Div. NAPB	R	Y	67	93	32	15.0	23250	0.0	0.0	0.0	59.5	143.0	A-F
T-E 8905X	Taylor-Evans Seed	W	Y	67	93	31	16.5	22250	0.0	1.1	0.0	57.2	142.9	A-G
8830	Conlee Seed Co.	R	Y	68	98	38	16.8	19500	0.0	0.0	0.0	59.5	140.9	A-H
Deltapine 5750	DELTA AND PINE LAND	R	Y	68	97	34	16.4	23000	0.0	1.1	0.0	59.6	140.6	A-H
CHECK 1	Tx. Agri. Exp. Sta.			66	92	36	16.6	21500	0.0	5.8	0.0	57.6	140.2	A-I
N8350X	Garst Seed Co.	R	Y	66	93	29	16.1	22500	0.0	1.1	0.0	59.4	139.9	A-J
Funk's G-4543	DELTA AND PINE LAND	R	Y	67	92	33	15.2	23750	0.0	0.0	0.0	59.6	139.9	A-J
3343	Pioneer Hi-Bred	P	Y	68	96	36	15.6	22250	0.0	0.0	0.0	58.3	139.7	A-J
ORD 180	ORD Hybrids	R	Y	67	95	37	16.2	20500	0.0	3.7	0.0	58.9	139.7	A-J
DK 689	DEKALB-PFIZER GEN.	P	Y	72	94	40	17.7	22250	0.0	3.4	0.0	57.3	138.9	A-J
S.G. 8515	Garrison Seed & Co.	R	Y	67	90	32	14.6	23500	0.0	1.1	0.0	58.3	138.6	A-J
KING'S 4154A	DOUGLASS W. KING	R	Y	68	96	33	16.5	22500	0.0	2.2	0.0	57.7	138.5	A-J
XP 9877X	ASGROW SEED CO.	W	Y	71	100	44	17.4	20500	0.0	8.5	0.0	57.0	138.3	A-J
9427	Cargill Hybrid	W	Y	69	102	38	17.1	21000	0.0	13.1	0.0	57.3	138.2	A-J
3170	Pioneer Hi-Bred	P	Y	68	96	36	17.4	22000	0.0	3.4	0.0	57.8	138.0	A-J
8850	Conlee Seed Co.	P	Y	67	89	33	15.9	23500	0.0	3.2	0.0	58.3	136.4	A-J
HS-88	HyPerformer Seed	W	Y	68	98	39	17.2	19500	0.0	7.7	0.0	61.1	136.2	A-J
ORD 190	ORD Hybrids	R	Y	66	88	29	16.1	22500	0.0	0.0	0.0	59.6	134.8	A-J
V68W	Vineyard Seed Co.	W	W	70	96	39	18.4	23250	0.0	0.0	0.0	58.6	134.4	A-J
3142	Pioneer Hi-Bred	R	Y	71	98	35	17.1	22750	0.0	0.0	0.0	58.2	134.4	A-J
GSC 2333	GroAgri Seed Co.	R	Y	67	95	40	16.1	21750	0.0	2.3	0.0	58.6	134.3	A-J
RX 908	ASGROW SEED CO.	R	Y	68	102	35	16.2	24750	0.0	5.1	0.0	57.4	134.2	A-J
S8505	New Northrup King	R	Y	69	95	33	16.3	23250	0.0	1.1	0.0	58.1	133.7	A-J
Funk's 6096X	DELTA AND PINE LAND	R	Y	69	92	35	17.1	21750	0.0	4.6	0.0	58.1	133.4	A-J
KING'S 5116	DOUGLASS W. KING	R	Y	69	98	38	15.4	21250	0.0	0.0	0.0	57.8	133.1	A-J
8344	Garst Seed Co.	R	Y	67	93	33	15.0	22250	0.0	0.0	0.0	59.3	133.1	A-J
W-2160	WARNER SEED CO.	R	Y	69	95	35	16.7	20000	0.0	0.0	0.0	58.6	132.8	A-J

Table 4A. CORN PERFORMANCE TEST; WHARTON, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS-TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
EXP. 89203W	Tx. Agri. Exp. Sta.	W	W	67	91	38	16.4	21500	0.0	48.8	0.0	59.7	131.9	A-J
HS-889	HyPerformer Seed	R	Y	69	95	38	17.7	21500	0.0	0.0	0.0	58.2	131.7	A-J
3110	Pioneer Hi-Bred	W	Y	71	98	37	19.1	22750	0.0	0.0	0.0	58.4	131.2	A-J
T-E 6988	Taylor-Evans Seed	R	Y	67	88	38	14.5	25750	0.0	3.9	0.0	58.1	130.3	A-J
EXP 4192X	GroAgri Seed Co.	W	Y	66	88	29	15.8	21000	0.0	0.0	0.0	58.6	130.1	A-J
T-E 7081	Taylor-Evans Seed	W	Y	68	95	38	15.9	22500	0.0	3.3	0.0	61.0	129.5	A-J
EXP 4715X	GroAgri Seed Co.	W	Y	70	93	33	19.2	22250	0.0	0.0	0.0	59.5	129.0	A-J
S.G. 8215	Garrison Seed & Co.	R	Y	67	90	37	14.9	22750	0.0	1.1	0.0	57.6	128.6	A-J
Toro Brand Bonito	Big Crop Seed, Inc.	R	Y	68	92	32	16.1	23750	0.0	1.1	0.0	56.7	127.5	A-J
TS 777	TEXAS SEED CO.	R	Y	67	92	30	15.7	23250	0.0	0.0	0.0	59.5	127.3	A-J
Funk's G-4673B	DELTA AND PINE LAND	R	Y	68	95	36	16.5	20500	0.0	1.2	0.0	59.2	126.1	B-J
RX 807	ASGROW SEED CO.	R	Y	67	93	29	14.8	23000	0.0	1.1	0.0	56.9	125.5	B-J
ST-7680	SeedTec, Div. NAPB	R	Y	67	93	31	15.0	22750	0.0	0.0	0.0	59.6	125.3	B-J
EXP. 89201W	Tx. Agri. Exp. Sta.	W	W	68	90	36	16.3	23500	0.0	39.4	0.0	56.6	124.6	B-J
ORD 150	ORD Hybrids	R	Y	67	90	34	14.5	22000	0.0	1.1	0.0	57.6	119.7	C-J
EXP. 974 (X)	DEKALB-PFIZER GEN.	P	Y	70	99	38	18.6	23750	0.0	0.0	0.0	57.5	119.4	D-J
V68AW	Vineyard Seed Co.	W	W	71	95	39	18.3	23750	0.0	0.0	0.0	58.2	117.8	E-J
Coker 8690	New Northrup King	R	Y	68	95	34	15.0	22500	0.0	1.1	0.0	57.4	117.7	E-J
GSC 2216	GroAgri Seed Co.	R	Y	67	92	38	14.7	35500	0.0	2.1	0.0	56.8	117.6	E-J
Funk's G-4571	DELTA AND PINE LAND	R	Y	68	93	38	14.3	22500	0.0	1.1	0.0	58.8	116.9	E-J
HS-97	HyPerformer Seed	R	Y	70	94	37	16.9	17750	0.0	0.0	0.0	58.5	116.5	E-J
3379	Pioneer Hi-Bred	P	Y	67	92	32	14.1	23250	0.0	0.0	0.0	57.0	115.9	F-J
W-2192A	WARNER SEED CO.	R	Y	66	91	31	14.4	22500	0.0	3.3	0.0	58.0	115.0	F-J
Germain's 86040	Germain's Seed Co.	R	Y	68	89	29	14.8	25250	0.0	2.0	0.0	59.6	112.7	G-J
DK 649	DEKALB-PFIZER GEN.	P	Y	71	92	28	16.3	22750	0.0	0.0	0.0	57.8	112.1	H-J
W-2192	WARNER SEED CO.	R	Y	71	92	35	16.9	21750	0.0	0.0	0.0	58.1	111.6	H-J
HS-879	HyPerformer Seed	R	Y	67	90	33	16.5	19000	0.0	2.6	0.0	59.8	111.1	H-J
8522	Conlee Seed Co.	R	Y	65	84	30	14.2	20000	0.0	0.0	0.0	58.4	110.1	I-J
Germain's 86050	Germain's Seed Co.	R	Y	67	88	27	14.9	24750	0.0	5.1	0.0	59.0	109.7	J

TEST MEAN= 133.3 TEST C.V.=12.6 LSD .05= 23.5

Note: 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.

* Garst 8315, GroAgri Exp 4172x and Nc+ Hybrids 6414 were entered as commercial check hybrids at our discretion. They should be used for comparison purposes only.

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

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

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

Table 4B. Three-Year Summary, Corn Performance Test, Wharton, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 7507	NC+ Hybrids	1	157.3	47	164.4	28	117.0
3165	Pioneer Hi-Bred International, Inc.	2	151.7	18	177.7	6	129.7
6414 NC+ Hybrids	Tx. Agri. Exp. Stat.	3	150.9	43	166.1	11	123.2
NC+ 8085	NC+ Hybrids	4	150.4	—	—	—	—
SeedCo 119	SeedCo Corporation	5	150.2	—	—	—	—
EX 4172x	GroAgri Seed Company	6	150.1	3	199.9	—	—
Funk's G-4666	DELTA AND PINE LAND COMPANY	7	149.8	9	182.6	13	122.7
EXP. 84202Y	Tx. Agri. Exp. Stat.	8	149.7	51	160.2	3	135.5
3140	Pioneer Hi-Bred International, Inc.	9	148.4	15	178.1	—	—
Rx 911	ASGROW SEED COMPANY	10	148.4	—	—	—	—
T-E 6994	Taylor-Evans Seed Company	11	146.7	6	186.8	5	131.0
DK 711	DEKALB-PFIZER GENETICS	12	146.7	5	189.6	15	122.0
EXP. 88201Y	Tx. Agri. Exp. Stat.	13	146.5	66	149.4	—	—
8527	Cargill Hybrid Seeds	14	145.2	—	—	—	—
KING'S 5154	DOUGLASS W. KING COMPANY	15	144.8	—	—	—	—
ST-7670	SeedTec, Division of NAPB, Inc.	16	143.0	—	—	—	—
T-E 8905X	Taylor-Evans Seed Company	17	142.9	—	—	—	—
8330	Conlee Seed Company, Inc.	18	140.9	25	174.9	—	—
Deltapine 5750	DELTA AND PINE LAND COMPANY	19	140.6	—	—	—	—
CHECK 1	Tx. Agri. Exp. Stat.	20	140.2	—	—	—	—
N 8350X	Garst Seed Company	21	139.9	—	—	—	—
Funk's G-4543	DELTA AND PINE LAND COMPANY	22	139.9	13	179.6	—	—
3343	Pioneer Hi-Bred International, Inc.	23	139.7	12	179.8	—	—
ORO 180	ORO Hybrids	24	139.7	26	174.5	30	116.7
DK 689	DEKALB-PFIZER GENETICS	25	138.9	28	173.6	4	134.8

Table 4B. Wharton, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
S.G. 8515	Garrison Seed & Company, Inc.	26	138.6	—	—	—	—
KING'S 4154A	DOUGLASS W. KING COMPANY	27	138.5	11	179.8	—	—
XP 9877X	ASGROW SEED COMPANY	28	138.3	—	—	—	—
9427	Cargill Hybrid Seeds	29	138.2	—	—	—	—
3170	Pioneer Hi-Bred International, Inc.	30	138.0	—	—	—	—
8850	Conlee Seed Company, Inc.	31	136.4	33	172.0	—	—
HS-88	HyPerformer Seed Company	32	136.2	—	—	—	—
ORO 190	ORO Hybrids	33	134.8	17	177.9	—	—
V68W	Vineyard Seed Company, Inc.	34	134.4	—	—	—	—
3142	Pioneer Hi-Bred International, Inc.	35	134.4	—	—	—	—
GSC 2333	GroAgri Seed Company	36	134.3	—	—	—	—
RX 908	ASGROW SEED COMPANY	37	134.2	—	—	—	—
S8505	The New Northrup King	38	133.7	60	155.9	—	—
Funk's 6096X	DELTA AND PINE LAND COMPANY	39	133.4	—	—	—	—
KING'S 5116	DOUGLASS W. KING COMPANY	40	133.1	—	—	—	—
8344	Garst Seed Company	41	133.1	—	—	—	—
W-2160	WARNER SEED COMPANY, INC.	42	132.8	—	—	—	—
EXF. 89203W	Tx. Agri. Exp. Stat.	43	131.9	—	—	—	—
HS-889	HyPerformer Seed Company	44	131.7	—	—	—	—
3110	Pioneer Hi-Bred International, Inc.	45	131.2	30	173.5	23	118.4
T-E 6988	Taylor-Evans Seed Company	46	130.3	21	176.9	—	—
EXP. 4192X	GroAgri Seed Company	47	130.1	—	—	—	—
T-E 7081	Taylor-Evans Seed Company	48	129.5	—	—	—	—
EXP. 4714	GroAgri Seed Company	49	129.0	37	169.1	—	—
S.G. 8215	Garrison Seed & Company, Inc.	50	128.6	45	164.7	37	114.0

Table 4B. Wharton, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Toro Brand Bonito	Big Crop Seed, Inc.	51	127.5	—	—	—	—
TS 777	TEXAS SEED COMPANY, INC.	52	127.3	20	177.0	—	—
Funk's G-4673B	DELTA AND PINE LAND COMPANY	53	126.1	4	194.0	24	118.1
RX 807	ASGROW SEED COMPANY	54	125.5	—	—	—	—
ST-7680	SeedTec, Division of NAPB, Inc.	55	125.3	50	162.3	—	—
EXP. 89201W	Tx. Agri. Exp. Stat.	56	124.6	—	—	—	—
ORO 150	ORO Hybrids	57	119.7	49	162.4	58	99.3
EXP. 974(X)	DEKALB-PFIZER GENETICS	58	119.4	—	—	—	—
V68AW	Vineyard Seed Company, Inc.	59	117.8	—	—	—	—
Coker 8690	The New Northrup King	60	117.7	—	—	—	—
GSC 2216	GroAgri Seed Company	61	117.6	—	—	52	105.6
Funk's G-4571	DELTA AND PINE LAND COMPANY	62	116.9	—	—	—	—
HS-97	HyPerformer Seed Company	63	116.5	70	143.5	—	—
3379	Pioneer Hi-Bred International, Inc.	64	115.9	—	—	—	—
W-2192A	WARNER SEED COMPANY, INC.	65	115.0	—	—	—	—
Germain's 86040	Germain's Seed Company	66	112.7	—	—	—	—
DK 649	DEKALB-PFIZER GENETICS	67	112.1	—	—	—	—
W-2192	WARNER SEED COMPANY, INC.	68	111.6	32	172.3	—	—
HS-879	HyPerformer Seed Company	69	111.1	—	—	—	—
8522	Conlee Seed Company, Inc.	70	110.1	—	—	—	—
Germain's 86050	Germain's Seed Company	71	109.7	—	—	—	—
Rx 892	ASGROW SEED COMPANY	—	—	7	186.4	39	113.1
PS 779	TEXAS SEED COMPANY, INC.	—	—	19	177.1	18	120.5
WAC 915	SeedTec, Division of NAPB, Inc.	—	—	29	173.6	16	121.5
TR 3303	Big Crop Seed, Inc.	—	—	31	173.1	10	124.5

Table 4B. Wharton, Texas. (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
NC+ 5891	NC+ Hybrids	—	—	36	169.8	25	117.9
TR 4405	Big Crop Seed, Inc.	—	—	52	160.0	59	93.0
T-E 6996	Taylor-Evans Seed Company	—	—	55	157.5	21	118.9
S.G. 8333	Garrison Seed & Company, Inc.	—	—	62	154.7	20	119.6
Number Entries:		71		71		60	
Test Mean Yield:		133.3		169.3		115.8	

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

TABLE 5. AGRONOMIC AND TEST INFORMATION: COLLEGE STATION

TEST:	1989 Irrigated Corn Performance Test
LOCATION:	Texas A&M University Farm, College Station, Texas
COOPERATORS:	Dennis Pietsch, Randy Gaas, Leon Synatschk, A. J. Bockholt, and Frank Fojt III,
SOIL TYPE:	Ships clay loam
ROW WIDTH:	40"
PREVIOUS CROP:	Corn
LAND PREPARATION:	Disked and bedded
DATE PLANTED:	3-9-89
DATE THINNED:	4-13; thinned to seed company recommendations
PLOT LENGTH:	19'
FERTILIZER:	600 lb/A of liquid 12-12-6 pre-plant, 400 lbs/A of 32-0-0 sidedressed April 26, 1989
HERBICIDE:	Applied 1 1/4 qt/A of Dual (metolachlor) + 2 qt/A of liquid AAtrex (atrazine) on April 19, 1989
INSECTICIDE:	None
RAINFALL:	March = 3.84"; April = .81"; May = 3.86"; June = 5.06"; July = 2.08"; August = 2.18"; Total = 17.86
IRRIGATIONS:	1 irrigation on 5-29-89; approximately 3.5"
DATE HARVESTED:	8-7-89, by hand
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	52
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP.:	21,933 plants/A
TEST MEAN:	138.9 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	11.7 percent

GENERAL INFORMATION: Above average yields were achieved at this test site due to good subsoil moisture at planting and timely rainfall during the growing season. An optimum planting date was achieved and seedling emergence was rapid. Good plant growth and development resulted from rainfall in May. One irrigation was applied in late-May which insured continuous plant growth and development.

A severe wind storm in late-July resulted in extensive lodging of some hybrids which is reflected in the following table.

The test mean yield was 138.9 bu/A which is 12.9 bu/A greater than the past five-year average of 126.0 bu/A.

Table 5A. CORN PERFORMANCE TEST; COLLEGE STATION, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
Funk's G-4673B	DELTA AND PINE LAND	R	Y	77	81	32	15.7	23750	0.0	9.5	0.0	60.4	165.6	A
EXP. 88201Y	Tx. Agri. Exp. Sta.	W	Y	79	89	44	16.7	22750	0.0	25.3	0.0	60.0	161.6	A-B
SCR 9	Southern Corn Res.	R	Y	77	85	38	17.3	22250	0.0	18.0	0.0	59.3	154.5	A-C
EXP. 84202	Tx. Agri. Exp. Sta.	P	Y	79	89	43	17.4	21750	0.0	8.0	0.0	59.0	153.4	A-D
3142	Pioneer Hi-Bred	R	Y	79	93	36	16.3	21750	0.0	29.9	0.0	60.6	152.1	A-D
CHECK 2	Tx. Agri. Exp. Sta.			78	87	36	15.6	23000	0.0	15.2	0.0	59.0	150.7	A-D
W-2160	WARNER SEED CO.	R	Y	77	88	34	15.1	23000	0.0	17.4	0.0	60.6	149.6	A-D
T-E 6994	Taylor-Evans Seed	R	Y	77	84	35	14.9	21750	0.0	33.3	0.0	60.2	148.8	A-E
KING'S 5116	DOUGLASS W. KING	R	Y	77	89	37	15.3	21250	0.0	14.1	2.4	60.6	148.4	A-E
3170	Pioneer Hi-Bred	P	Y	76	84	33	16.2	19000	0.0	15.8	0.0	60.2	148.1	A-E
KING'S 4154A	DOUGLASS W. KING	R	Y	77	87	35	16.1	23250	0.0	32.3	0.0	60.1	147.6	A-E
9427	Cargill Hybrid	W	Y	76	85	36	16.7	23500	0.0	36.2	0.0	59.0	146.3	A-E
T-E 7086	Taylor-Evans Seed	R	Y	78	83	36	17.4	19500	0.0	34.6	0.0	59.2	145.8	A-E
CHECK 1	Tx. Agri. Exp. Sta.			76	88	34	16.7	22000	0.0	17.0	0.0	61.6	145.7	A-E
8850	Conlee Seed Co.	P	Y	75	85	32	15.3	22500	0.0	21.1	6.7	60.0	144.9	A-F
SCR 11	Southern Corn Res.	R	Y	79	90	36	15.8	24000	0.0	20.8	0.0	60.6	144.6	A-F
EXP. 89202Y	Tx. Agri. Exp. Sta.	W	Y	78	87	42	16.8	21750	0.0	17.2	0.0	59.9	143.8	A-F
3343	Pioneer Hi-Bred	P	Y	77	93	34	14.6	21500	0.0	5.8	2.3	59.3	143.0	A-F
Funk's 6096X	DELTA AND PINE LAND	R	Y	77	82	33	17.0	25250	0.0	45.5	0.0	59.9	142.9	A-F
3165	Pioneer Hi-Bred	R	Y	79	84	34	17.4	22750	0.0	46.2	0.0	59.2	141.0	A-F
S7759	New Northrup King	R	Y	76	86	35	14.8	23750	0.0	16.8	0.0	60.4	140.8	A-F
XP 9877X	ASGROW SEED CO.	W	Y	78	88	39	17.1	18250	0.0	24.7	1.4	59.3	140.5	A-F
EXP. 89201W	Tx. Agri. Exp. Sta.	W	W	75	84	38	16.7	22250	0.0	41.6	0.0	57.8	140.4	A-F
KING'S 5154	DOUGLASS W. KING	R	Y	77	88	38	17.0	21500	0.0	11.6	0.0	59.6	140.0	A-F
Funk's G-4666	DELTA AND PINE LAND	R	Y	77	86	35	15.2	20500	0.0	9.8	0.0	61.0	139.0	A-F
Deltapine 5750	DELTA AND PINE LAND	R	Y	75	86	36	15.4	21750	0.0	16.1	0.0	60.8	138.9	A-F
ORO 180	ORO Hybrids	R	Y	77	85	36	15.0	23000	0.0	16.3	0.0	59.7	138.4	A-F
3379	Pioneer Hi-Bred	P	Y	76	87	29	14.3	24250	0.0	5.2	1.0	59.3	137.4	A-F
S.G. 8215	Garrison Seed & Co.	R	Y	76	86	35	14.5	23000	0.0	14.1	0.0	60.8	137.2	A-F
ORO 150	ORO Hybrids	R	Y	76	83	34	14.6	22500	0.0	12.2	0.0	60.5	136.9	B-F
3140	Pioneer Hi-Bred	P	Y	79	91	37	16.9	23000	0.0	57.6	0.0	58.4	136.5	B-F
S.G. 8515	Garrison Seed & Co.	R	Y	76	83	38	14.9	22250	0.0	7.9	0.0	60.9	136.3	B-F
Toro Brand Bonito	Big Crop Seed, Inc.	P	Y	77	85	29	15.9	25750	0.0	1.9	0.0	60.2	135.2	B-F
Germain's 86040	Germain's Seed Co.	R	Y	74	80	29	16.1	21250	0.0	8.2	1.2	62.8	134.9	B-F
7877	Cargill Hybrid	R	Y	75	94	34	14.7	18250	0.0	9.6	0.0	59.6	133.4	B-F
RX 807	ASGROW SEED CO.	R	Y	74	92	32	14.8	20250	0.0	24.7	1.2	59.7	132.6	C-F
Coker 8690	New Northrup King	R	Y	77	86	35	15.9	24750	0.0	15.2	0.0	60.1	132.5	C-F
RX 908	ASGROW SEED CO.	R	Y	77	90	37	15.1	20250	0.0	4.9	4.9	59.6	131.5	C-F
ORO 151	ORO Hybrids	R	Y	77	83	33	15.1	21250	0.0	22.4	0.0	60.9	131.3	C-F
Funk's G-4571	DELTA AND PINE LAND	R	Y	76	84	34	14.7	23750	0.0	18.9	1.1	60.6	131.0	C-F
SCR 8	Southern Corn Res.	R	Y	78	91	36	16.0	22250	0.0	12.4	0.0	59.8	130.7	C-F

Table 5A. CORN PERFORMANCE TEST; COLLEGE STATION, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
ORO 190	ORO Hybrids	R	Y	76	79	29	15.1	21500	0.0	9.3	1.2	60.3	130.6	C-F
T-E 6996	Taylor-Evans Seed	R	Y	78	86	34	16.5	18250	0.0	11.0	0.0	62.0	129.9	C-F
Germain's 86050	Germain Seed Co.	R	Y	77	83	30	15.4	20250	0.0	22.2	4.9	62.6	129.7	C-F
T-E 6988	Taylor-Evans Seed	R	Y	78	81	34	14.6	22000	0.0	15.9	0.0	59.6	129.5	C-F
ORO 188 (Exp. 801X)	ORO Hybrids	R	Y	77	88	35	17.3	19250	0.0	23.4	0.0	59.5	129.5	C-F
8527	Cargill Hybrid	R	Y	78	87	31	15.7	21250	0.0	10.6	0.0	60.6	126.4	C-F
EXP. 89203W	Tx. Agri. Exp. Sta.	W	W	76	88	39	16.4	22750	0.0	69.2	5.5	60.8	125.1	D-F
SCR 10	Southern Corn Res.	R	Y	78	91	38	15.9	21500	0.0	11.6	0.0	60.6	125.0	D-F
ORO Exp. 807X	ORO Hybrids	R	Y	76	79	30	15.7	20500	0.0	7.3	0.0	61.1	124.8	D-F
KING'S 5115	DOUGLASS W. KING	R	Y	78	89	34	15.7	21750	0.0	18.4	0.0	60.6	120.5	E-F
EXP. 89206Y	Tx. Agri. Exp. Sta.	W	Y	76	79	28	16.8	21500	0.0	3.5	3.5	59.7	116.3	F

TEST MEAN= 138.9 TEST C.V.=11.7 LSD .05= 22.6

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

* DeKalb DK 689 and DK 711 were entered as commercial check hybrids at our discretion. They are intended to be used for comparison purposes only.

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

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

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

Table 5B. Three-Year Summary, Corn Performance Test, College Station, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Funk's G-4673B	DELTA AND PINE LAND COMPANY	1	165.6	29	130.2	22	132.3
EXP. 88201Y	Tx. Agri. Exp. Stat.	2	161.6	31	129.8	—	—
SCR 9	Southern Corn Research	3	154.5	—	—	—	—
EXP. 84202Y	Tx. Agri. Exp. Stat.	4	153.4	34	129.3	7	144.8
3142	Pioneer Hi-Bred International, Inc.	5	152.1	—	—	—	—
DK 689	DEKALB-PFIZER GENETICS	6	150.7	50	114.7	—	—
W-2160	WARNER SEED COMPANY, INC.	7	149.6	—	—	—	—
T-E 6994	Taylor-Evans Seed Company	8	148.8	35	126.7	20	133.7
KING'S 5116	DOUGLASS W. KING COMPANY	9	148.4	—	—	—	—
3170	Pioneer Hi-Bred International, Inc.	10	148.1	—	—	—	—
KING'S 4154A	DOUGLASS W. KING COMPANY	11	147.6	8	144.6	—	—
9427	Cargill Hybrid Seeds	12	146.3	—	—	—	—
T-E 7086	Taylor-Evans Seed Company	13	145.8	—	—	—	—
DK 711	DEKALB-PFIZER GENETICS	14	145.7	15	138.1	—	—
8850	Conlee Seed Company, Inc.	15	144.9	7	145.6	—	—
SCR 11	Southern Corn Research	16	144.6	—	—	—	—
EXP. 89202Y	Tx. Agri. Exp. Stat.	17	143.8	—	—	—	—
3543	Pioneer Hi-Bred International, Inc.	18	143.0	14	138.6	—	—
Funk's 6096X	DELTA AND PINE LAND COMPANY	19	142.9	—	—	—	—
3165	Pioneer Hi-Bred International, Inc.	20	141.0	4	152.2	6	144.9
S7759	The New Northrup King	21	140.8	5	147.7	—	—
XP 9877X	ASGROW SEED COMPANY	22	140.5	—	—	—	—
EXP. 89201W	Tx. Agri. Exp. Stat.	23	140.4	—	—	—	—
KING'S 5154	DOUGLASS W. KING COMPANY	24	140.0	—	—	—	—
Funk's G-4666	DELTA AND PINE LAND COMPANY	25	139.0	11	140.1	45	114.5

Table 5B. College Station, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Deltapine 5750	DELTA AND PINE LAND COMAPNY	26	138.9	—	—	—	—
ORO 180	ORO Hybrids	27	138.4	22	134.4	19	133.8
3379	Pioneer Hi-Bred International, Inc.	28	137.4	—	—	—	—
S.G. 8215	Garrison Seed & Company, Inc.	29	137.2	48	115.0	50	102.9
ORO 150	ORO Hybrids	30	136.9	6	147.0	13	138.1
3140	Pioneer Hi-Bred International, Inc.	31	136.5	13	138.8	—	—
S.G. 8515	Garrison Seed & Company, Inc.	32	136.3	—	—	—	—
Toro Brand Bonito	Big Crop Seed, Inc.	33	135.2	—	—	—	—
Germain's 86040	Germain's Seed Company	34	134.9	—	—	—	—
7877	Cargill Hybrid Seeds	35	133.4	—	—	—	—
Rx 807	ASGROW SEED COMPANY	36	132.6	—	—	—	—
COKER 8690	The New Northrup King	37	132.5	—	—	—	—
Rx 908	ASGROW SEED COMPANY	38	131.5	—	—	—	—
ORO 151	ORO Hybrids	39	131.3	39	122.6	—	—
Funk's G-4571	DELTA AND PINE LAND COMPANY	40	131.0	—	—	—	—
SCR 8	Southern Corn Research	41	130.7	—	—	—	—
ORO 190	ORO Hybrids	42	130.6	10	140.5	—	—
T-E 6996	Taylor-Evans Seed Company	43	129.9	42	120.9	44	114.5
Germain's 86050	Germain's Seed Company	44	129.7	—	—	—	—
T-E 6988	Taylor-Evans Seed Company	45	129.5	28	130.3	—	—
ORO 188 (Exp 801x)	ORO Hybrids	46	129.5	1	165.3	—	—
8527	Cargill Hybrid Seeds	47	126.4	—	—	—	—
EXP. 89203W	Tx. Agri. Exp. Stat.	48	125.1	—	—	—	—
SCR 10	Southern Corn Research	49	125.0	—	—	—	—
ORO Exp. 807X	ORO Hybrids	50	124.8	—	—	—	—

Table 5B. College Station, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
KING'S 5115	DOUGLASS W. KING COMPANY	51	120.5	—	—	—	—
EXP. 89206Y	Tx. Agri. Exp. Stat.	52	116.3	—	—	—	—
3110	Pioneer Hi-Bred International, Inc.	—	—	3	156.5	9	140.6
Rx 892	ASGROW SEED COMPANY	—	—	12	139.1	4	148.1
8631	Conlee Seed Company, Inc.	—	—	16	137.8	30	123.8
NC+ 7507	NC+ Hybrids	—	—	17	137.5	38	117.3
Rx 905	ASGROW SEED COMPANY	—	—	18	136.9	23	130.3
G-4500	DELTA AND PINE LAND COMPANY	—	—	25	132.4	33	121.5
NC+5891	NC+ Hybrids	—	—	26	131.5	48	112.7
TR 3303	Big Crop Seed, Inc.	—	—	33	129.5	36	120.3
S.G. 8333	Garrison Seed & Company, Inc.	—	—	52	111.9	47	113.3
Number of Entries:		52		53		50	
Test Mean Yield:			138.9		131.7		129.2

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

TABLE 6.

AGRONOMIC AND TEST INFORMATION: THRALL

TEST:	1989 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-bed, fertilizer applied and field cultivated and harrowed beds prior to planting
DATE PLANTED:	2-27-89, hand dropped behind a JD7300 Max-Emerge 2 planter
DATE THINNED:	4-7-89; thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	Broadcast 400 lb/A of 32-0-0 and cultivated in soil on 2-24-89
HERBICIDE:	Broadcast 1.25 qt/A AAtrex (atrazine) 4L on 3-9
INSECTICIDE:	6.9 lb/A Counter 15G (terbufos) at planting
RAINFALL:	Jan = 3.1"; Feb = 0.9"; March = 2.9"; April = 2.3"; May = 6.4"; June = 5.00"; July = 0.5"; Total = 21.1"
IRRIGATIONS:	None
DATE HARVESTED:	7-27-89, by hand
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	61
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP.:	22,286 plants/A
TEST MEAN:	64.7 bu/A; yields corrected to 15.5% moisture
TEST C.V.:	19.9 percent

GENERAL INFORMATION: Adverse weather conditions during the early part of the growing season probably reduced potential yields at this test site. An extended period of cold and wet conditions delayed early plant growth and development. After the test block was thinned, a severe hail storm in mid-April caused extensive damage to the young plants. Another hail storm in late-April resulted in additional damage to the test block.

Although rainfall was adequate for corn production during the entire growing season, distribution was not ideal to alleviate moisture stress early consequently reducing potential yields. The test mean yield was 64.7 bu/A which is 21.6 bu/A less than the past 3 year average of 92.8.

Table 6A. CORN PERFORMANCE TEST; THRALL, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT			TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****	
								POP. PER ACRE	% SMUT	% LODGED				% BROKEN
3142	Pioneer Hi-Bred	R	Y	89	91	31	18.6	17000	0.0	3.9	0.0	57.8	85.0	A
8116	Garst Seed Co.	R	Y	86	86	32	17.9	18750	0.0	1.3	1.3	58.0	85.0	A
8850	Conlee Seed Co.	P	Y	85	80	26	18.1	23250	0.0	0.0	1.1	57.8	83.2	A-B
ORD 188 (Exp. 801X)	ORD Hybrids	R	Y	87	85	31	20.9	20750	0.0	0.0	0.0	54.0	81.3	A-C
3170	Pioneer Hi-Bred	P	Y	87	87	32	18.2	23500	0.0	1.1	0.0	58.0	81.1	A-C
ORD 151	ORD Hybrids	R	Y	87	83	31	17.9	23500	0.0	0.0	1.1	57.7	80.8	A-C
Funk's G-6096X	DELTA AND PINE LAND	R	Y	87	85	30	19.6	21250	0.0	0.0	0.0	55.0	80.7	A-C
T-E 6996	Taylor-Evans Seed	R	Y	88	85	36	19.3	22000	0.0	0.0	0.0	58.2	80.5	A-C
Seedco 119	Seedco Corporation	R	Y	88	83	32	20.1	21750	0.0	0.0	2.3	57.6	80.2	A-C
Deltapine 5750	DELTA AND PINE LAND	R	Y	87	87	29	18.1	21750	0.0	1.1	1.1	58.0	80.0	A-D
3140	Pioneer Hi-Bred	R	Y	88	87	35	19.2	23750	0.0	0.0	2.1	57.0	77.1	A-E
3165	Pioneer Hi-Bred	R	Y	88	84	34	19.1	21750	0.0	0.0	1.1	56.0	77.0	A-E
Funk's G-4666	DELTA AND PINE LAND	R	Y	87	85	30	18.8	21750	0.0	0.0	1.1	57.7	75.2	A-F
N8350X	Garst Seed Co.	R	Y	87	84	28	19.9	21250	0.0	1.2	2.4	56.2	75.0	A-G
RX 911	ASGROW SEED CO.	R	Y	85	85	31	17.9	22250	0.0	1.1	0.0	57.1	75.0	A-G
S7759	New Northrup King	R	Y	86	84	32	18.0	22750	0.0	0.0	0.0	58.9	74.3	A-G
T-E 6988	Taylor-Evans Seed	R	Y	86	80	32	16.5	27250	0.0	0.0	0.0	58.7	72.9	A-G
Exp. 89201W	Tx. Agri. Exp. Sta.	W	W	86	84	28	22.1	19500	0.0	0.0	0.0	54.8	72.9	A-G
FRONTIER F-3040	Frontier Hybrids	R	Y	84	84	29	15.8	24500	0.0	0.0	0.0	59.2	70.7	A-H
Funk's G-4673B	DELTA AND PINE LAND	R	Y	86	85	34	18.8	21250	0.0	0.0	0.0	57.2	70.5	A-H
7877	Cargill Hybrid	R	Y	84	83	28	16.7	23500	0.0	1.1	1.1	59.0	70.3	A-H
Funk's G-4571	DELTA AND PINE LAND	R	Y	85	82	28	16.9	22500	0.0	0.0	5.6	58.8	69.7	A-I
8527	Cargill Hybrid	R	Y	87	86	30	18.0	20500	0.0	0.0	2.4	57.5	69.6	A-J
ORD 180	ORD Hybrids	R	Y	87	82	33	17.3	23250	0.0	0.0	2.2	58.0	69.6	A-J
ORD 150	ORD Hybrids	R	Y	85	81	29	15.9	24500	0.0	0.0	0.0	60.0	69.3	A-J
T-E 7055	Taylor-Evans Seed	R	Y	86	79	24	17.2	22500	0.0	0.0	4.4	57.0	69.0	A-J
GSC 2216	GroAgri Seed Co.	R	Y	86	79	29	16.3	22250	0.0	0.0	0.0	52.9	68.4	A-K
3379	Pioneer Hi-Bred	P	Y	85	81	28	14.9	22750	0.0	0.0	2.2	59.8	67.7	A-K
SCR 9	Southern Corn Res.	R	Y	88	85	35	20.8	22250	0.0	0.0	0.0	55.0	66.1	A-K
Germain's 86050	Germain's Seed Co.	R	Y	86	77	19	16.8	20250	0.0	0.0	2.5	59.6	65.6	A-L
Germain's 86040	Germain's Seed Co.	R	Y	85	78	20	17.2	21750	0.0	0.0	8.0	59.3	65.5	A-L
8522	Conlee Seed Co.	R	Y	84	78	26	14.0	21500	0.0	0.0	0.0	59.3	64.2	A-L
Exp. 89206Y	Tx. Agri. Exp. Sta.	W	Y	86	78	28	20.6	23750	0.0	2.1	2.1	54.9	64.1	A-L
PX9581	New Northrup King	R	Y	83	80	31	16.3	22000	0.0	9.1	0.0	59.1	63.2	A-M
ST-7680	SeedTec, Div. NAPB	R	Y	86	81	25	16.3	25750	0.0	0.0	1.0	58.7	62.9	A-M
SCR 8	Southern Corn Res.	R	Y	88	88	32	19.6	17250	0.0	1.4	0.0	56.4	62.5	A-M
RX 807	ASGROW SEED CO.	R	Y	85	89	27	16.5	20000	0.0	0.0	2.5	57.9	61.2	B-M
W-2160	WARNER SEED CO.	Y	R	86	85	31	18.2	22750	0.0	0.0	1.1	57.1	60.9	B-M
KING'S 5154	DOUGLASS W. KING	R	Y	87	83	38	19.0	20500	0.0	0.0	1.2	54.7	60.5	B-M
Toro Brand Bonito	Big Crop Seed, Inc.	R	Y	84	81	26	17.9	21750	0.0	0.0	0.0	57.8	60.1	B-N
SCR 10	Southern Corn Res.	R	Y	88	85	30	18.7	22500	0.0	1.1	0.0	57.6	59.4	C-N

Table 6A. CORN PERFORMANCE TEST; THRALL, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	%	%	%	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
9427	Cargill Hybrid	W	Y	86	87	32	18.5	21250	0.0	4.7	0.0	56.6	59.4	C-N
DK 711	DEKALB-PFIZER GEN.	P	Y	86	82	27	19.8	24500	0.0	0.0	1.0	56.3	58.5	C-N
DK 689	DEKALB-PFIZER GEN.	P	Y	89	82	34	19.0	24500	0.0	2.0	0.0	55.1	56.8	F-N
ORD 190	ORD Hybrids	R	Y	86	80	25	16.9	24500	0.0	0.0	2.0	57.1	56.4	D-N
EXP 4161X	GroAgri Seed Co.	R	Y	84	80	24	16.3	23000	0.0	0.0	0.0	59.7	55.5	D-N
SCR 11	Southern Corn Res.	R	Y	88	85	32	19.3	21500	0.0	0.0	0.0	58.0	54.6	D-N
KING'S 5115	DOUGLASS W. KING	R	Y	89	87	32	19.5	19000	0.0	0.0	1.8	56.8	54.4	D-N
GSC 2333	GroAgri Seed Co.	R	Y	87	82	32	17.4	24750	0.0	0.0	0.0	57.3	53.7	E-N
DK 649	DEKALB-PFIZER GEN.	P	Y	90	78	26	21.9	24667	0.0	0.0	0.0	52.4	52.7	F-N
Exp. 89203W	Tx. Agri. Exp. Sta.	W	W	87	84	33	21.6	23500	0.0	0.0	1.1	56.0	52.2	F-N
KING'S 5116	DOUGLASS W. KING	R	Y	88	88	30	19.1	20750	0.0	0.0	1.2	57.8	51.8	G-N
KING'S 4154A	DOUGLASS W. KING	R	Y	87	86	31	19.4	23000	0.0	0.0	0.0	56.4	49.4	H-N
ST-7670	SeedTec, Div. NAPB	R	Y	86	84	29	17.0	22750	0.0	0.0	0.0	57.2	48.2	H-N
3343	Pioneer Hi-Bred	P	Y	88	85	30	17.7	21500	0.0	0.0	3.5	56.6	46.6	I-N
Exp. 84202	Tx. Agri. Exp. Sta.	P	Y	87	86	36	19.7	21000	0.0	0.0	0.0	57.2	46.5	J-N
Exp. 88201W	Tx. Agri. Exp. Sta.	W	Y	88	87	40	20.6	23500	0.0	0.0	0.0	57.4	46.5	J-N
V68W	Vineyard Seed Co.	W	W	87	84	34	20.5	22000	0.0	0.0	2.3	54.7	45.3	K-N
XP 9877X	ASGROW SEED CO.	W	Y	88	86	37	19.9	21750	3.4	5.7	8.0	53.6	42.6	L-N
ORD Exp. 807X	ORD Hybrids	R	Y	87	79	31	17.9	21667	0.0	0.0	0.0	57.4	40.6	M-N
V68AW	Vineyard Seed Co.	W	W	89	79	31	20.2	25500	0.0	0.0	1.0	53.7	37.4	N

TEST MEAN= 64.7 TEST C.V.= 19.9 LSD .05= 18.0

Note: 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.

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

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

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

Note: Hybrids with same yields were ranked by computer.

Table 6B. Three-Year Summary, Corn Performance Test, Thrall, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3142	Pioneer Hi-Bred International, Inc.	1	85.0	—	—	—	—
8116	Garst Seed Company	2	85.0	—	—	—	—
8850	Conlee Seed Company, Inc.	3	83.2	33	93.8	—	—
ORO 188 (Exp. 801x)	ORO Hybrids	4	81.3	10	105.5	—	—
3170	Pioneer Hi-Bred International, Inc.	5	81.1	7	109.3	—	—
ORO 151	ORO Hybrids	6	80.8	30	94.4	—	—
Funk's G-6096x	DELTA AND PINE LAND CO.	7	80.7	—	—	—	—
T-E 6996	Taylor-Evans Seed Company	8	80.5	35	93.4	37	104.1
Seedco 119	SeedCo Corporation	9	80.2	—	—	—	—
Deltapine 5750	DELTA AND PINE LAND CO.	10	80.0	—	—	—	—
3140	Pioneer Hi-Bred International, Inc.	11	77.1	54	81.9	—	—
3165	Pioneer Hi-Bred International, Inc.	12	77.0	3	114.1	14	117.9
Funk's G-4666	DELTA AND PINE LAND CO.	13	75.2	5	112.3	32	107.5
N 8350x	Garst Seed Company	14	75.0	—	—	—	—
Rx 911	ASGROW SEED COMPANY	15	75.0	—	—	—	—
S 7759	The New Northrup King	16	74.3	22	99.4	16	117.2
T-E 6988	Taylor-Evans Seed Company	17	72.9	38	91.6	—	—
EXP. 89201W	Tx. Agri. Exp. Stat.	18	72.9	—	—	—	—
Frontier F-3040	Frontier Hybrids Inc.	19	70.7	41	90.8	—	—
Funk's G-4673B	DELTA AND PINE LAND CO.	20	70.5	31	94.0	—	—
7877	Cargill Hybrid Seeds	21	70.3	—	—	—	—
Funk's G-4571	DELTA AND PINE LAND CO.	22	69.7	—	—	—	—
8527	Cargill Hybrid Seeds	23	69.6	—	—	—	—
ORO 180	ORO Hybrids	24	69.6	34	93.5	3	134.0
ORO 150	ORO Hybrids	25	69.3	51	83.7	17	116.0

Table 6B. Thrall, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
T-E 7055	Taylor-Evans Seed Company	26	69.0	—	—	—	—
GSC 2216	GroAgri Seed Company	27	68.4	—	—	—	—
3379	Pioneer Hi-Bred International, Inc.	28	67.7	—	—	—	—
SCR 9	Southern Corn Research	29	66.1	—	—	—	—
Germain's 86050	Germain's Seed Company	30	65.6	—	—	—	—
Germain's 86040	Germain's Seed Company	31	65.5	—	—	—	—
8522	Conlee Seed Company, Inc.	32	64.2	—	—	—	—
EXP. 89206Y	Tx. Agri. Exp. Stat.	33	64.1	—	—	—	—
Px 9581	The New Northrup King	34	63.2	55	81.8	—	—
ST-7680	SeedTec, Div. NAPB, Inc.	35	62.9	16	101.6	—	—
SCR 8	Southern Corn Research	36	62.5	—	—	—	—
Rx 807	ASGROW SEED COMPANY	37	61.2	—	—	—	—
W-2160	WARNER SEED CO., INC.	38	60.9	43	90.2	—	—
KING'S 5154	DOUGLASS W. KING COMPANY	39	60.5	—	—	—	—
Toro Brand Bonito	Big Crop Seed, Inc.	40	60.1	—	—	—	—
SCR 10	Southern Corn Research	41	59.4	—	—	—	—
9427	Cargill Hybrid Seeds	42	59.4	—	—	—	—
DK 711	DEKALB-PFIZER GENETICS	43	58.5	11	105.5	4	131.9
DK 689	DEKALB-PFIZER GENETICS	44	56.8	12	104.2	11	120.0
ORO 190	ORO Hybrids	45	56.4	44	89.6	—	—
EXP. 4161x	GroAgri Seed Company	46	55.5	—	—	—	—
SCR 11	Southern Corn Research	47	54.6	—	—	—	—
KING'S 5115	DOUGLASS W. KING COMPANY	48	54.4	—	—	—	—
GSC 2333	GroAgri Seed Company	49	53.7	—	—	—	—
DK 649	DEKALB-PFIZER GENETICS	50	52.7	—	—	—	—

Table 6B. Thrall, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
EXP. 89203W	Tx. Agri. Exp. Stat.	51	52.2	--	--	--	--
KING'S 5116	DOUGLASS W. KING COMPANY	52	51.8	--	--	--	--
KING'S 4154A	DOUGLASS W. KING COMPANY	53	49.4	53	83.0	--	--
ST-7670	SeedTec, Div. of NAPB, Inc.	54	48.2	--	--	--	--
3343	Pioneer Hi-Bred International, Inc.	55	46.6	2	115.1	--	--
EXP. 84202Y	Tx. Agri. Exp. Stat.	56	46.5	48	86.3	19	115.2
EXP. 88201W	Tx. Agri. Exp. Stat.	57	46.5	17	101.5	--	--
V68W	Vineyard Seed Company, Inc.	58	45.3	--	--	--	--
XP 9877x	ASGROW SEED COMPANY	59	42.6	--	--	--	--
ORO Exp. 807x	ORO Hybrids	60	40.6	--	--	--	--
V68AW	Vineyard Seed Company, Inc.	61	37.4	--	--	--	--
Rx 892	ASGROW SEED COMPANY	--	--	4	113.8	8	126.5
G-4500	DELTA AND PINE LAND CO.	--	--	6	111.7	23	113.9
TR 3303	Big Crop Seed, Inc.	--	--	9	107.3	38	102.9
S.G. 8215	Garrison Seed & Company, Inc.	--	--	27	95.8	43	94.6
HS-56	HyPerformer Seed Company	--	--	32	93.9	12	119.7
S.G. 8333	Garrison Seed & Company, Inc.	--	--	39	91.3	25	113.3
T-E 6904	Taylor-Evans Seed Company	--	--	46	89.1	22	114.4
3110	Pioneer Hi-Bred International, Inc.	--	--	58	77.8	6	129.3
Rx 905	ASGROW SEED COMPANY	--	--	59	77.5	10	122.5
Number of Entries:		61		62		50	
Test Mean Yield:			64.7		94.5		111.1

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

TABLE 7.

AGRONOMIC AND TEST INFORMATION: BARDWELL

TEST:	1989 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 Roger Corbin
SOIL TYPE:	Houston black clay
ROW WIDTH:	36"
PREVIOUS CROP:	Wheat
LAND PREPARATION:	Chiseled (2), disked and used field cultivator
DATE PLANTED:	3-3-89; hand dropped behind a JD 7100 Max-Emerge 2 planter
DATE THINNED:	4-6-89; thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	160-50-24; Applied 200 lb/A of 14-28-14-4 in Fall of '88, 112 lb/A of 32-0-0 pre-emerge and sidedress 280 lb/A of 32-0-0 + 1 qt/A zinc
HERBICIDE:	1.6 lb/A of AAtrex (atrazine) in Fall of '88. Applied 3/4 pint of Bicep (atrazine + metolachlor) at label rate, pre-emerge
INSECTICIDE:	4.3 lb/A Counter (terbufos) at planting
RAINFALL:	February = 2.6"; March = 3.70"; April = 3.00; May = 10.0"; June = 8.00"; July = 2.50"; Total = 29.8"
IRRIGATIONS:	None
DATE HARVESTED:	Harvested by hand on 8-14-89; shelled and moistured on 8-15-89
SIZE HARVESTED PLOT:	1/840 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	56
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	1
MEAN PLANT POP.:	19,207 plants/A
TEST MEAN:	133.3 bu/A; yields corrected to 15.5 % moisture
TEST C.V.:	14.5 percent

GENERAL INFORMATION: Despite unfavorable weather conditions during the early part of the growing season, excellent yields were achieved at this test site. After the test was planted, cold and wet weather conditions delayed seedling emergence. Continued cool and wet conditions hampered early plant growth. The test block was thinned on 4-4 with adequate plant stands secured. An unseasonable freeze on 4-11 resulted in plant loss or injury to some plots. Freeze damage counts were made on 4-17 and results are indicated in the following table. Plants that were either burned down to soil level or received significant leaf burn were classified as damaged. Some plants did recover and produce grain. Warm weather and abundant rainfall from May - July ensured grain fill and excellent yields to be obtained.

The test mean yield was 133.3 bu/A with six hybrids producing over 150 bu/A.

Table 7A. CORN PERFORMANCE TEST; BARDWELL, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% FREEZE DAM. ****	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. *****
3142	Pioneer Hi-Bred	R	Y	88	97	34	14.5	21630	13.3	0.0	0.0	61.8	169.2	A
XP 9877X	ASGROW SEED CO.	W	Y	89	97	39	19.0	20580	21.8	0.0	0.0	58.2	168.4	A-B
EXP. 89203W	Tx. Agri. Exp. Sta.	W	Y	86	96	41	17.3	20160	14.8	2.1	0.0	61.5	153.8	A-C
DK 689	DEKALB-PFIZER GEN.	P	Y	90	88	38	15.8	22470	10.0	0.0	0.0	58.9	153.6	A-C
T-E 6996	Taylor-Evans Seed	R	Y	90	90	33	18.1	21840	6.8	0.0	0.0	60.3	153.4	A-C
T-E 7055	Taylor-Evans Seed	R	Y	86	86	28	15.3	22050	29.5	0.0	0.0	61.3	152.5	A-D
3165	Pioneer Hi-Bred	R	Y	89	87	34	17.4	18060	32.5	0.0	0.0	58.5	152.5	A-D
DK 711	DEKALB-PFIZER GEN.	P	Y	87	94	34	17.3	21420	21.0	0.0	0.0	61.6	147.7	A-E
8850	Conlee Seed Co.	P	Y	86	86	28	16.3	22470	21.8	0.0	0.0	60.5	146.6	A-E
EXP. 84202Y	Tx. Agri. Exp. Sta.	P	Y	90	91	42	16.7	19950	24.3	1.1	0.0	59.0	146.4	A-E
EXP. 88201W	Tx. Agri. Exp. Sta.	W	Y	89	95	44	16.4	19530	30.0	0.0	0.0	60.0	146.3	A-E
S7759	New Northrup King	R	Y	86	91	34	15.0	22260	18.8	0.0	0.0	60.8	145.8	A-E
Funk's G-4571	DELTA AND PINE LAND	R	Y	86	91	34	14.2	19320	20.5	0.0	0.0	61.3	144.6	A-E
RX 986	ASGROW SEED CO.	W	Y	89	94	36	17.8	18900	7.5	1.1	0.0	59.5	144.3	A-E
T-E 6988	Taylor-Evans Seed	R	Y	86	85	34	14.4	21840	14.5	0.0	0.0	59.9	144.1	A-E
ORO 151	ORO Hybrids	R	Y	90	87	33	14.3	21210	13.8	0.0	0.0	60.8	143.5	A-F
Toro Brand Bonito	Big Crop Seed, Inc.	R	Y	87	84	28	15.2	19320	28.8	0.0	0.0	59.4	141.2	A-G
9427	Cargill Hybrid	W	Y	86	94	36	17.3	16170	29.3	0.0	0.0	59.5	140.3	A-H
EXP. 89202Y	Tx. Agri. Exp. Sta.	W	Y	88	91	40	16.5	19740	25.5	1.1	0.0	60.1	139.8	A-H
3140	Pioneer Hi-Bred	P	Y	90	95	37	15.3	17220	28.8	1.2	0.0	60.0	139.2	A-H
GSC 2333	GroAgri Seed Co.	R	Y	87	91	36	15.0	18900	21.0	0.0	0.0	60.4	137.6	A-H
HS-88	HyPerformer Seed	W	Y	88	90	34	17.3	20370	16.5	0.0	0.0	61.6	137.0	A-H
RX 807	ASGROW SEED CO.	R	Y	86	95	32	13.9	22890	17.3	0.0	0.0	59.7	136.5	A-H
T-E 6994	Taylor-Evans Seed	R	Y	87	87	36	15.2	20580	19.5	0.0	0.0	59.4	135.3	B-H
GSC 2216	GroAgri Seed Co.	R	Y	86	90	35	14.2	19950	11.8	0.0	0.0	61.1	135.0	B-H
DK 649	DEKALB-PFIZER GEN.	P	Y	89	86	32	14.4	20790	22.8	0.0	0.0	60.4	133.7	C-H
W-2192	WARNER SEED CO.	R	Y	91	91	37	17.1	18480	14.8	0.0	0.0	59.4	133.1	C-H
V58W	Vineyard Seed Co.	W	W	87	90	35	17.1	21210	25.0	0.0	0.0	61.3	132.2	C-H
ORO 188 (Exp. 801X)	ORO Hybrids	R	Y	88	88	35	16.0	17220	21.3	0.0	0.0	59.6	131.9	C-H
EXP. 89201W	Tx. Agri. Exp. Sta.	W	W	87	91	37	16.5	18900	24.3	1.1	0.0	59.1	131.7	C-H
W-2160	WARNER SEED CO.	R	Y	88	92	32	14.4	19320	19.3	0.0	0.0	61.1	131.5	C-H
EXP. 89206Y	Tx. Agri. Exp. Sta.	W	Y	86	82	32	16.2	20160	12.3	2.1	0.0	59.3	130.9	C-H
Funk's G-4666	DELTA AND PINE LAND	R	Y	87	91	33	14.6	18270	23.8	0.0	0.0	61.4	130.7	C-H
ORO 190	ORO Hybrids	R	Y	86	84	27	14.9	16800	35.8	0.0	0.0	61.2	129.6	C-H
HS-82	HyPerformer Seed	R	Y	88	86	28	14.4	19320	26.0	0.0	0.0	59.7	129.5	C-H
7877	Cargill Hybrid	R	Y	85	93	30	14.0	19110	36.0	0.0	0.0	60.1	129.5	C-H
EXP 4625X	GroAgri Seed Co.	R	Y	89	92	35	15.0	19950	17.3	1.1	0.0	61.8	128.6	C-H
3343	Pioneer Hi-Bred	P	Y	86	92	33	13.6	17850	31.0	0.0	0.0	59.2	126.9	C-H
W-2192-W	WARNER SEED CO.	R	Y	86	86	35	14.5	20160	27.8	0.0	0.0	61.1	125.5	C-H
V68W	Vineyard Seed Co.	W	W	88	91	35	18.4	19950	35.5	1.1	0.0	59.9	125.3	C-H
5416X	New Northrup King	R	Y	86	86	33	14.4	18900	22.0	0.0	0.0	59.8	124.4	C-H

Table 7A. CORN PERFORMANCE TEST; BARDWELL, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% FREEZE			TEST WT. lb/bu	YIELD bu/A	STAT SIG. *****
									DAM. ****	% LODGED	% BROKEN			
RX 892	ASGRDW SEED CO.	R	Y	88	91	33	17.5	18060	37.8	1.2	0.0	58.8	124.4	C-H
8527	Cargill Hybrid	R	Y	87	91	33	15.2	19320	23.8	0.0	0.0	60.8	123.2	C-H
Funk's G-4673B	DELTA AND PINE LAND	P	Y	87	91	32	15.3	14910	26.0	0.0	0.0	60.3	119.5	C-H
8027	Cargill Hybrid	R	Y	87	87	31	14.1	18060	25.3	0.0	0.0	61.1	118.6	D-H
3170	Pioneer Hi-Bred	P	Y	86	89	32	14.1	13650	38.8	1.5	0.0	60.6	117.5	E-H
ORD 150	ORD Hybrids	R	Y	86	87	34	14.8	17220	23.3	0.0	0.0	61.0	117.3	E-H
V68AW	Vineyard Seed Co.	W	W	90	91	36	19.0	19320	23.8	0.0	0.0	58.5	116.7	E-H
Deltapine 5750	DELTA AND PINE LAND	R	Y	87	88	33	14.3	17430	20.8	0.0	0.0	61.0	115.6	E-H
ORD 180	ORD Hybrids	R	Y	86	91	38	14.6	16380	21.5	0.0	0.0	60.4	115.4	E-H
3379	Pioneer Hi-Bred	P	Y	85	89	31	13.5	16170	38.0	1.3	0.0	59.9	114.4	E-H
HS-879	HyPerformer Seed	R	Y	87	92	36	15.1	18900	23.0	0.0	0.0	61.9	113.8	E-H
HS-56	HyPerformer Seed	R	Y	87	91	36	14.9	19110	24.5	1.1	0.0	60.9	113.7	E-H
ORD Exp. 807X	ORD Hybrids	R	Y	88	83	33	17.0	17220	19.8	0.0	0.0	60.0	109.3	F-H
8522	Conlee Seed Co.	R	Y	85	80	30	13.1	18690	16.0	0.0	0.0	61.5	108.1	G-H
NC+ 6414	NC+ Hybrids	R	Y	86	87	32	14.0	15960	34.0	0.0	0.0	60.2	106.4	H

TEST MEAN= 133.3 TEST C.V.=14.5 LSD .05= 27.0

Note: 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.

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

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

**** This figure represents the percentage of plants that were burned down to soil level or received significant leaf burn from the 4-11-89 freeze. Readings were made on 4-17-89 from each plot and recorded.

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

Table 7B. Three-Year Summary, Corn Performance Test, Bardwell, Texas

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3142	Pioneer Hi-Bred International, Inc.	1	169.2	-	-	-	-
XP 9877x	ASGROW SEED COMPANY	2	168.4	-	-	-	-
EXP. 89203W	Tx. Agri. Exp. Stat.	3	153.8	-	-	-	-
DK 689	DEKALB-PFIZER GENETICS	4	153.6	8	141.4	4	141.8
T-E 6996	Taylor-Evans Seed Company	5	153.4	60	101.7	25	134.4
T-E 7055	Taylor-Evans Seed Company	6	152.5	-	-	-	-
3165	Pioneer Hi-Bred International, Inc.	7	152.5	3	158.4	1	148.2
DK 711	DEKALB-PFIZER GENETICS	8	147.7	50	112.8	18	137.4
8850	Conlee Seed Company, Inc.	9	146.6	24	126.2	-	-
EXP. 84202Y	Tx. Agri. Exp. Stat.	10	146.4	10	139.1	47	123.9
EXP. 88201W	Tx. Agri. Exp. Stat.	11	146.3	4	155.0	-	-
S7759	The New Northrup King	12	145.8	26	124.6	5	141.6
Funk's G-4571	DELTA AND PINE LAND COMPANY	13	144.6	-	-	-	-
Rx 986	ASGROW SEED COMPANY	14	144.3	-	-	-	-
T-E 6988	Taylor-Evans Seed Company	15	144.1	28	123.9	-	-
ORO 151	ORO Hybrids	16	143.5	38	119.7	-	-
Toro Brand Bonito	Big Crop Seed, Inc.	17	141.2	-	-	-	-
v+L7	Cargill Hybrid Seeds	18	140.3	-	-	-	-
EXP. 89202Y	Tx. Agri. Exp. Stat.	19	139.8	-	-	-	-
3140	Pioneer Hi-Bred International, Inc.	20	139.2	47	114.2	-	-
GSC 2333	GroAgri Seed Company	21	137.6	-	-	21	136.0
HS-88	HyPerformer Seed Company	22	137.0	-	-	-	-
Rx 807	ASGROW SEED COMPANY	23	136.5	-	-	-	-
T-E 6994	Taylor-Evans Seed Company	24	135.3	-	-	15	137.9
GSC 2216	GroAgri Seed Company	25	135.0	-	-	26	133.7

Table 7B. Bardwell, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
DK 649	DEKALB-PFIZER GENETICS	26	133.7	-	-	-	-
W-2192	WARNER SEED COMPANY, INC.	27	133.1	54	109.2	43	124.4
V58W	Vineyard Seed Company, Inc.	28	132.2	-	-	-	-
ORO 188 (Exp. 801X)	ORO Hybrids	29	131.9	1	172.9	-	-
EXP. 89201W	Tx. Agri. Exp. Stat.	30	131.7	-	-	-	-
W-2160	WARNER SEED COMPANY, INC.	31	131.5	45	115.7	-	-
EXP. 89206Y	Tx. Agri. Exp. Stat.	32	130.9	-	-	-	-
Funk's G-4666	DELTA AND PINE LAND COMPANY	33	130.7	17	131.6	-	-
ORO 190	ORO Hybrids	34	129.6	37	120.0	-	-
HS-82	HyPerformer Seed Company	35	129.5	-	-	-	-
7877	Cargill Hybrid Seeds	36	129.5	-	-	-	-
EXP. 4625x	GroAgri Seed Company	37	128.6	-	-	-	-
3343	Pioneer Hi-Bred International, Inc.	38	126.9	9	140.3	-	-
W-2192-W	WARNER SEED COMPANY, INC.	39	125.5	-	-	-	-
V68W	Vineyard Seed Company, Inc.	40	125.3	-	-	-	-
5416x	The New Northrup King	41	124.4	-	-	-	-
Rx 892	ASGROW SEED COMPANY	42	124.4	20	129.6	20	136.3
8527	Cargill Hybrid Seeds	43	123.2	-	-	-	-
Funk's G4673B	DELTA AND PINE LAND COMPANY	44	119.5	42	117.8	24	134.7
8027	Cargill Hybrid Seeds	45	118.6	-	-	-	-
3170	Pioneer Hi-Bred International, Inc.	46	117.5	-	-	-	-
ORO 150	ORO Hybrids	47	117.3	58	106.3	45	124.1
V68AW	Vineyard Seed Company, Inc.	48	116.7	-	-	-	-
Deltapine 5750	DELTA AND PINE LAND COMPANY	49	115.6	-	-	-	-
ORO 180	ORO Hybrids	50	115.4	40	119.1	9	139.4

Table 7B. Bardwell, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
3379	Pioneer Hi-Bred International, Inc.	51	114.4	—	—	—	—
HS-879	HyPerformer Seed Company	52	113.8	—	—	—	—
HS-56	HyPerformer Seed Company	53	113.7	—	—	—	—
ORO 188	ORO Hybrids	54	109.3	—	—	—	—
8522	Conlee Seed Company, Inc.	55	108.1	—	—	—	—
NC+ 6414	NC+ Hybrids	56	106.4	—	—	—	—
Rx 905	ASGROW SEED COMPANY	—	—	11	139.1	2	144.9
G-4500	DELTA AND PINE LAND COMPANY	—	—	13	134.3	22	135.1
SX 352	Cargill Hybrid Seeds	—	—	18	131.0	19	136.3
7989	Cargill Hybrid Seeds	—	—	25	125.8	13	138.5
WAC 915	SeedTec, Div. NAPB, Inc.	—	—	29	123.4	10	139.1
S.G. 8333	Garrison Seed & Company, Inc.	—	—	33	122.0	27	133.3
TR 3303	Big Crop Seed, Inc.	—	—	35	121.5	36	129.6
Px 9540	The New Northrup King	—	—	39	119.6	53	121.8
S.G. 8215	Garrison Seed & Company, Inc.	—	—	56	108.4	58	115.5
Number of Entries:		56		61		62	
Test Mean Yield:			133.3		125.3		130.3

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

TABLE 8. AGRONOMIC AND TEST INFORMATION: DUMAS

TEST:	1989 Irrigated Corn Performance Test
LOCATION:	Dale Coleman Farm - Dumas, Texas
COOPERATORS:	Dale Coleman, Harold Grall, Dennis Pietsch, Randy Gaas, Leon Synatschk, Kenneth Holloway, Cloyce Coffman, and A. J. Bockholt
SOIL TYPE:	Sherman silty clay loam
ROW WIDTH:	30"
PREVIOUS CROP:	Fallow
LAND PREPARATION:	Chiseled (2), plant
DATE PLANTED:	4-19-89, by hand behind JD Max Emerge planter
DATE THINNED:	5-25; thinned to seed company recommendations
PLOT LENGTH:	30'
FERTILIZER:	301 lb/A of 82% Anhydrous Ammonia, preplant; Broadcast 150 lb/A of 10-34-0 preplant; applied 16.87 units of N through center pivot in form of 32-0-0 + 6.85 units of S. Applied through center pivot 29 lb/A of N in July at pre-tassel stage
HERBICIDE:	None
INSECTICIDE:	Applied 2 pt/A of Lorsban + 2 pt/A crop oil through center pivot at post-tassel stage.
RAINFALL:	Rainfall was not recorded but was considered below normal through mid-May and normal for the remainder of the growing season.
IRRIGATIONS:	22.45" were applied through center pivot
DATE HARVESTED:	10-3-89
SIZE HARVESTED PLOT:	1/1,000 acre
TEST DESIGN:	Randomized block
NUMBER ENTRIES:	90
NUMBER REPLICATIONS:	4
NUMBER ROWS/PLOT:	2
MEAN PLANT POP.:	30,000 plants/A
TEST MEAN:	212.9 bu/A, yields corrected to 15.5% moisture
TEST C. V.:	10.2 percent

GENERAL INFORMATION: Twenty-three commercial seed companies and the Texas Agricultural Experiment Station entered 90 hybrids at this test site which made this the largest of eight performance test locations in Texas. This site is representative of conditions in the Northern High Plains of Texas.

Outstanding yields were achieved due to good management and excellent plant stands. Early plant growth and development were retarded due to extended periods of high winds which resulted in plants being cut off at ground level by "blowing soil". Good growing conditions soon followed with excellent plant stands attained after thinning. Rapid plant growth and development resulted from a timely irrigation schedule. The LEPA (Low Energy Precision Application) system was used with the fertilizer and insecticide applied thru the system at the appropriate times.

The test mean yield was 212.9 bu/A with 78 hybrids producing between 200 and 255.2 bu/A. The test was uniform as indicated by the low coefficient of variation (C.V.) of 10.2 percent. The statement at the end of the table indicates no check hybrids were used in the test. This is incorrect. Pioneer 3343 and 3189 were used as check hybrids and should be used for comparison purposes only.

Table 8A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
Funk's G-4673B	DELTA AND PINE LAND	R	Y	89	110	44	20.5	29000	0.0	1.7	0.0	56.3	255.2	A
3162	Pioneer Hi-Bred	P	Y	88	105	40	22.6	31000	0.0	1.6	0.0	57.5	249.8	A-B
CHECK 1	Tx. Agri. Exp. Sta.			89	109	47	17.7	33250	0.0	0.8	0.0	58.2	245.4	A-C
GSC 2216	GroAgri Seed Co.	R	Y	89	106	45	17.9	32500	2.3	10.0	0.0	59.2	242.2	A-D
DK 711	DEKALB-PFIZER GEN.	P	Y	90	112	50	21.6	35500	0.0	5.6	0.0	57.1	238.5	A-E
FRONTIER F-3040	Frontier Hybrids	R	Y	90	108	44	19.1	31250	0.8	7.2	0.0	58.1	237.4	A-E
8510	Jacques Seed Co.	R	Y	89	108	46	22.5	30000	0.0	5.0	0.0	55.4	233.9	A-F
RX 908	ASGROW SEED CO.	R	Y	91	116	49	21.9	30250	0.0	3.3	0.0	53.1	233.1	A-G
W-2192-A	WARNER SEED CO.	R	Y	89	106	41	18.6	32500	1.5	0.8	0.0	59.9	232.4	A-H
86050	Germain's Seed Co.	R	Y	90	107	37	20.6	31000	0.0	0.0	0.0	58.4	231.7	A-H
7877	Cargill Hybrid	R	Y	90	107	41	19.3	31250	0.0	13.6	0.0	57.4	231.7	A-H
3379	Pioneer Hi-Bred	R	Y	88	104	45	16.0	33500	0.0	0.0	0.0	60.2	231.6	A-H
EXP 4161X	GroAgri Seed Co.	R	Y	90	102	40	19.1	31250	0.0	1.6	0.0	59.8	229.9	A-I
FRONTIER F-3030	Frontier Hybrids	R	Y	89	108	42	20.9	31000	0.8	2.4	0.0	55.8	228.6	A-J
WXC-150	WARNER SEED CO.	R	Y	90	111	40	20.2	30500	0.0	0.0	0.0	57.5	228.4	A-J
Funk's G-4500	DELTA AND PINE LAND	R	Y	89	111	48	19.4	29000	1.7	4.3	0.0	58.4	228.0	A-K
5416 X	New Northrup King	R	Y	89	106	45	19.7	27250	1.8	2.8	0.0	58.3	227.2	A-L
T-E 7055	Taylor-Evans Seed	R	Y	89	103	39	21.2	33500	0.0	0.7	0.0	56.9	227.1	A-L
EXP 4192X	GroAgri Seed Co.	R	Y	90	105	36	20.3	30000	0.0	1.7	0.0	57.6	226.9	A-L
T-E 8905X	Taylor-Evans Seed	W	Y	90	105	38	20.6	30500	0.8	5.7	0.0	56.3	226.8	A-L
W-2192	WARNER SEED CO.	R	Y	91	115	43	21.8	29750	0.0	2.5	0.8	54.6	226.4	A-L
ST-7680	SeedTec, Div. NAPB	R	Y	89	108	39	18.8	29000	0.9	1.7	0.0	59.4	225.3	A-M
CHECK 2	Tx. Agri. Exp. Sta.			90	103	39	21.6	31000	0.0	0.0	0.0	57.5	225.3	A-M
3168	Pioneer Hi-Bred	R	Y	89	109	45	19.2	31500	0.8	0.0	0.0	60.3	225.2	A-M
AgriPro AP 670	AgriPro Seeds	R	Y	90	107	42	19.5	31500	2.4	0.0	0.0	59.5	225.2	A-M
86040	Germain's Seed Co.	R	Y	88	101	33	20.0	31250	0.0	0.0	0.0	59.2	224.6	A-M
AgriPro 820	AgriPro Seeds	R	Y	89	106	48	17.1	30500	0.8	4.9	0.0	59.9	224.0	A-M
DK 656	DEKALB-PFIZER GEN.	P	Y	88	105	45	18.4	34000	2.2	8.1	1.5	58.7	223.1	A-M
Funk's G-4571	DELTA AND PINE LAND	R	Y	89	109	45	19.9	29750	1.7	0.0	0.0	58.4	223.1	A-M
T-E 6988	Taylor-Evans Seed	R	Y	90	106	48	19.1	29250	0.9	12.8	0.0	58.1	222.3	A-M
AgriPro AP 510	AgriPro Seeds	R	Y	89	105	42	19.5	30000	0.8	0.0	0.0	58.8	222.0	A-M
Funk's G-4513	DELTA AND PINE LAND	R	Y	90	104	38	19.4	31500	0.0	0.0	0.0	58.9	219.6	A-M
EXP 4176X	GroAgri Seed Co.	R	Y	89	103	36	19.7	29750	0.0	6.7	0.0	58.1	218.5	A-M
WXC-102	WARNER SEED CO.	R	Y	89	106	40	18.9	29750	0.0	0.0	0.0	59.9	217.9	A-M
3189	Pioneer Hi-Bred	P	Y	91	100	37	21.1	32250	0.0	0.0	0.0	58.0	217.4	A-M
Exp. 89205Y	Tx. Agri. Exp. Sta.	Y	Y	93	117	57	26.5	28500	1.8	7.0	0.0	52.9	217.3	A-M
7993	Cargill Hybrid	R	Y	89	106	42	19.4	31750	0.8	1.6	0.0	58.7	217.3	A-M
FRONTIER F-3006	Frontier Hybrids	R	Y	90	109	44	21.0	30500	0.0	0.0	0.0	58.2	217.3	A-M
S7759	New Northrup King	R	Y	89	108	48	19.2	26000	1.0	5.8	0.0	59.0	217.1	A-M

Table 8A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
T-E 6951	Taylor-Evans Seed	R	Y	90	104	39	18.9	32750	0.8	3.1	0.0	59.6	216.7	A-M
Wilson Exp. 1352(X)	Wilson Hybrids Inc.	R	Y	91	115	42	22.7	29500	3.4	1.7	0.0	55.0	216.7	A-M
ORD 120	ORD Hybrids	R	Y	89	106	41	19.2	28750	1.7	0.0	0.0	59.1	216.3	B-M
HS-97	HyPerformer Seed	R	Y	92	113	52	20.6	32000	1.6	3.9	0.8	55.5	215.1	B-M
RX 807	ASGROW SEED CO.	R	Y	90	110	41	21.3	29000	0.9	1.7	0.9	54.8	215.0	B-M
S.G. 8215	Garrison Seed & Co.	R	Y	90	107	49	19.0	30750	0.0	15.4	0.0	58.2	215.0	B-M
ST-7670	SeedTec, Div. NAPB	R	Y	90	107	42	19.3	28000	0.9	3.6	0.0	59.6	215.0	B-M
Toro Brand Champion	Big Crop Seed, Inc.	R	Y	91	107	47	19.3	29500	0.0	9.3	0.0	55.6	214.2	B-M
Toro Brand Bonito	Big Crop Seed, Inc.	R	Y	90	105	38	19.8	28750	4.3	6.1	0.0	56.2	213.4	B-M
3124	Pioneer Hi-Bred	R	Y	90	105	42	21.1	30000	0.8	0.0	0.0	58.2	212.9	B-M
KING'S 5154	DOUGLASS W. KING	R	Y	93	108	49	24.0	28250	0.0	18.6	0.0	53.1	212.7	B-M
ORD 190	ORD Hybrids	R	Y	90	104	39	20.7	29000	0.9	6.0	0.0	57.8	212.6	B-M
8850	Conlee Seed Co.	P	Y	89	105	42	21.3	26500	0.9	1.9	0.0	57.5	212.5	B-M
W-2160	WARNER SEED CO.	R	Y	91	113	45	21.8	29250	0.0	0.9	0.0	55.1	212.4	B-M
SCR 8	Southern Corn Res.	R	Y	91	115	50	24.0	29500	2.5	4.2	0.8	53.5	211.3	B-M
Exp. 84202Y	Tx. Agri. Exp. Sta.	P	Y	93	117	60	24.3	31500	1.6	31.7	0.0	53.1	210.5	C-M
RX 788	ASGROW SEED CO.	R	Y	90	107	40	19.7	29250	0.0	0.9	0.9	58.7	210.2	C-M
WXC-104	WARNER SEED CO.	R	Y	90	104	44	17.7	33000	0.0	7.6	0.8	58.6	209.5	C-M
V58W	Vineyard Seed Co.	W	W	90	110	48	19.4	32500	1.5	4.6	0.0	59.2	209.4	C-M
KING'S 4154A	DOUGLASS W. KING	R	Y	90	113	48	23.8	28250	4.4	5.3	0.0	53.6	209.1	C-M
Wilson 1890	Wilson Hybrids Inc.	R	Y	91	105	40	22.9	30750	4.9	0.0	0.0	55.3	208.9	C-N
7910	Jacques Seed Co.	R	Y	89	104	37	19.8	27750	0.0	5.4	0.0	58.2	208.7	C-N
Wilson 2300	Wilson Hybrids Inc.	R	Y	91	114	49	22.6	29500	0.8	1.7	0.0	54.5	208.6	C-N
S.G. 8515	Garrison Seed & Co.	R	Y	89	107	42	19.1	28000	0.9	2.7	0.0	59.3	208.6	C-N
Deltapine 5750	DELTA AND PINE LAND	R	Y	90	109	41	22.0	27750	0.9	0.0	0.0	55.0	208.5	C-N
HS-64	HyPerformer Seed	R	Y	90	108	41	21.6	33250	0.0	3.0	0.0	55.9	208.4	C-N
KING'S 5116	DOUGLASS W. KING	R	Y	93	117	46	21.3	29500	5.9	2.5	0.0	56.4	207.2	C-N
T-E 6994	Taylor-Evans Seed	R	Y	89	111	51	16.5	30500	0.8	17.2	0.0	58.2	206.5	C-N
HS-88	HyPerformer Seed	W	Y	90	108	45	20.0	29750	0.0	6.7	0.0	59.4	206.4	C-N
8522	Conlee Seed Co.	R	Y	88	100	43	14.1	29000	0.0	1.7	0.0	61.4	206.1	D-N
S.G. 8333	Garrison Seed & Co.	R	Y	91	111	38	20.4	28250	0.0	0.0	0.0	57.3	206.0	D-N
7820	Jacques Seed Co.	R	Y	89	103	40	18.7	28000	0.9	2.7	0.0	59.4	202.6	E-N
8210	Jacques Seed Co.	R	Y	89	104	38	19.7	28250	0.0	7.1	0.0	58.3	200.7	E-N
V424W	Vineyard Seed Co.	W	W	90	105	45	18.3	31250	1.6	12.8	0.8	59.4	200.5	E-N
EXP 4193X	GroAgri Seed Co.	R	Y	90	107	38	20.9	27750	0.0	5.4	0.0	55.8	199.6	E-N
RX 956 W	ASGROW SEED CO.	W	W	92	109	48	23.0	27750	4.5	8.1	0.0	56.1	198.2	F-N
ORD 150	ORD Hybrids	R	Y	89	105	44	18.7	27000	3.7	10.2	0.0	59.2	198.1	F-N
SCR 11	Southern Corn Res.	R	Y	92	117	46	21.1	27000	2.8	0.0	0.0	56.3	197.5	F-N

Table 8A. CORN PERFORMANCE TEST; DUMAS, TEXAS 1989

HYBRID *	COMPANY OR BRAND NAME	COB COLOR **	GRAIN COLOR ***	DAYS TO 50% SILK	PLANT HT. IN.	EAR HT. IN.	MOIS- TURE %	PLANT POP. PER ACRE	% SMUT	% LODGED	% BROKEN	TEST WT. lb/bu	YIELD bu/A	STAT SIG. ****
FC 540	Vineyard Seed C.	W	Y	91	103	43	19.2	32000	7.0	0.8	0.0	60.8	194.3	G-0
KING'S 5115	DOUGLASS W.KING	R	Y	92	113	43	20.5	29750	7.6	3.4	0.0	56.9	193.6	H-0
SCR 10	Southern Corn Res.	R	Y	92	116	45	21.3	33750	3.0	10.4	0.0	56.4	193.5	H-0
Exp. 88201Y	Tx. Agri. Exp. Sta.	W	Y	93	118	59	25.8	24750	0.0	18.2	1.0	52.9	191.3	I-0
ORO 180	ORO Hybrids	R	Y	89	107	51	16.0	26000	0.0	9.6	1.0	58.0	189.6	J-0
Exp. 89206Y	Tx. Agri. Exp. Sta.	W	Y	90	100	44	19.8	32500	0.0	13.8	0.0	57.5	189.2	K-0
Exp. 89203W	Tx. Agri. Exp. Sta.	W	W	90	110	54	19.9	31000	0.0	56.5	0.0	57.7	188.8	L-0
Exp. 89202Y	Tx. Agri. Exp. Sta.	W	Y	92	116	57	25.5	26250	4.8	29.5	0.0	54.0	188.4	L-0
SCR 9	Southern Corn Res.	R	Y	92	108	51	23.4	30250	0.8	19.8	0.0	53.7	186.7	M-0
Exp. 89207W	Tx. Agri. Exp. Sta.	W	W	90	103	45	18.2	29750	5.9	10.9	0.0	51.9	170.7	N-P
Exp. 89201W	Tx. Agri. Exp. Sta.	W	W	90	106	55	20.5	30000	0.0	62.5	0.0	57.6	159.3	O-P
Exp. 89204Y	Tx. Agri. Exp. Sta.	W	Y	90	99	42	22.7	21750	0.0	12.6	0.0	55.9	147.6	P
Exp. 89208Y	Tx. Agri. Exp. Sta.	W	Y	91	108	51	26.3	33750	17.0	40.7	0.7	51.9	137.8	P

TEST MEAN= 212.9 TEST C.V.=10.2 LSD .05= 30.2

Note: 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.

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

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

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

Table 8B. Three-Year Summary, Corn Performance Test, Dumas, Texas

HYBRID	COMPANY	1989		1988		1987 ¹	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
Funk's G-4673B	DELTA AND PINE LAND COMPANY	1	255.2	1	234.0	2	155.8
3162	Pioneer Hi-Bred International, Inc.	2	249.8	—	—	—	—
CHECK 1	Tx. Agri. Exp. Stat.	3	245.5	—	—	—	—
GSC 2216	GroAgri Seed Company	4	242.2	—	—	26	133.0
DK 711	DEKALB-PFIZER GENETICS	5	238.5	4	228.8	51	123.4
FRONTIER F-3040	Frontier Hybrids Inc.	6	237.4	—	—	27	132.8
8510	Jacques Seed Company	7	233.9	—	—	—	—
Rx 908	ASGROW SEED COMPANY	8	233.1	—	—	—	—
W-2192-A	WARNER SEED COMPANY, INC.	9	232.4	39	202.8	7	141.1
86050	Germain's Seed Company	10	231.7	—	—	—	—
7877	Cargill Hybrid Seeds	11	231.7	37	204.4	13	138.7
3379	Pioneer Hi-Bred International, Inc.	12	231.6	—	—	—	—
EXP. 416X	GroAgri Seed Company	13	229.9	—	—	—	—
FRONTIER F-3040	Frontier Hybrids Inc.	14	228.6	—	—	—	—
WXC-150	WARNER SEED COMPANY, INC.	15	228.4	—	—	—	—
Funk's G-4500	DELTA AND PINE LAND COMPANY	16	228.0	20	216.4	32	130.7
5416 X	The New Northrup King	17	227.2	—	—	—	—
T-E 7055	Taylor-Evans Seed Company	18	227.1	—	—	—	—
EXP 4192X	GroAgri Seed Company	19	226.9	—	—	—	—
T-E 8905X	Taylor-Evans Seed Company	20	226.8	—	—	—	—
W-2192	WARNER SEED COMPANY, INC.	21	226.4	32	205.8	57	119.1
ST-7680	SeedTec, Division of NAPB, Inc.	22	225.3	14	220.3	—	—
CHECK 2	Tx. Agri. Exp. Stat.	23	225.3	—	—	—	—
3168	Pioneer Hi-Bred International, Inc.	24	225.2	31	206.4	—	—
AgriPro AP670	AgriPro Seeds	25	225.2	6	223.4	—	—
86040	Germain's Seed Company	26	224.6	—	—	—	—
AgriPro 820	AgriPro Seeds	27	224.0	16	218.8	—	—
DK 656	DEKALB-PFIZER GENETICS	28	223.1	3	229.4	—	—
Funk's G-4571	DELTA AND PINE LAND COMPANY	29	223.1	—	—	—	—
T-E 6988	Taylor-Evans Seed Company	30	222.3	10	222.7	14	138.5

Table 8B. Dumas, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
AgriPro AP510	AgriPro Seeds	31	222.0	21	216.2	—	—
Funk's G-4513	DELTA AND PINE LAND COMPANY	32	219.6	17	218.5	—	—
EXP 4176x	GroAgri Seed Company	33	218.5	—	—	—	—
WXC-102	WARNER SEED COMPANY, INC.	34	217.9	—	—	—	—
3189	Pioneer Hi-Bred International, Inc.	35	217.4	—	—	—	—
Exp. 89205Y	Tx. Agri. Exp. Stat.	36	217.3	—	—	—	—
7993	Cargill Hybrid Seeds	37	217.3	7	223.4	—	—
FRONTIER F-3006	Frontier Hybrids Inc.	38	217.3	—	—	—	—
S 7759	The New Northrup King	39	217.1	11	221.9	18	136.8
T-E 6951	Taylor-Evans Seed Company	40	216.7	48	196.6	—	—
Wilson Exp. 1352(x)	Wilson Hybrids, Inc.	41	216.7	—	—	—	—
ORO 120	ORO Hybrids	42	216.3	—	—	—	—
HS-97	HyPerformer Seed Company	43	215.1	60	156.2	—	—
Rx 807	ASGROW SEED COMPANY	44	215.0	—	—	—	—
S.G. 8215	Garrison Seed & Company, Inc.	45	215.0	54	187.3	49	124.1
ST-7670	SeedTec, Division of NAPB, Inc.	46	215.0	—	—	—	—
Toro Brand Champion	Big Crop Seed, Inc.	47	214.2	—	—	—	—
Toro Brand Bonito	Big Crop Seed, Inc.	48	213.4	—	—	—	—
3124	Pioneer Hi-Bred International, Inc.	49	212.9	23	215.2	4	147.3
KING'S 5154	DOUGLASS W. KING COMPANY	50	212.7	—	—	—	—
ORO 190	ORO Hybrids	51	212.6	42	202.6	—	—
8850	Conlee Seed Company, Inc.	52	212.5	38	203.2	—	—
W-2160	WARNER SEED COMPANY, INC.	53	212.4	56	183.6	—	—
SCR 8	Southern Corn Research	54	211.3	8	223.1	—	—
Exp. 84202Y	Tx. Agri. Exp. Stat.	55	210.5	—	—	63	110.1
Rx 788	ASGROW SEED COMPANY	56	210.2	—	—	—	—
WXC-104	WARNER SEED COMPANY, INC.	57	209.5	—	—	—	—
V58W	Vineyard Seed Company	58	209.4	—	—	—	—
KING'S 4154A	DOUGLASS W. KING COMPANY	59	209.1	30	208.5	—	—
Wilson 1890	Wilson Hybrids, Inc.	60	208.9	—	—	—	—

Table 8B. Dumas, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
7910	Jacques Seed Company	61	208.7	—	—	—	—
Wilson 2300	Wilson Hybrids, Inc.	62	208.6	34	205.2	—	—
S.G. 8515	Garrison Seed & Company, Inc.	63	208.6	—	—	—	—
Deltapine 5750	DELTA AND PINE LAND COMPANY	64	208.5	—	—	—	—
HS-64	HyPerformer Seed Company	65	208.4	53	187.9	—	—
KING'S 5116	DOUGLASS W. KING COMPANY	66	207.2	—	—	—	—
T-E 6994	Taylor-Evans Seed Company	67	206.5	—	—	—	—
HS-88	HyPerformer Seed Company	68	206.4	—	—	—	—
8522	Conlee Seed Company, Inc.	69	206.1	—	—	—	—
S.G. 8333	Garrison Seed & Company, Inc.	70	206.0	22	215.2	1	164.6
7820	Jacques Seed Company	71	202.6	—	—	38	129.5
8210	Jacques Seed Company	72	200.7	—	—	50	123.7
V424W	Vineyard Seed Company, Inc.	73	200.5	—	—	—	—
EXP 4193X	GroAgri Seed Company	74	199.6	—	—	—	—
Rx 956W	ASGROW SEED COMPANY	75	198.2	—	—	41	128.2
ORO 150	ORO Hybrids	76	198.1	25	212.2	19	136.6
SCR 11	Southern Corn Research	77	197.5	—	—	—	—
FC 540	Vineyard Seed Company, Inc.	78	194.3	—	—	—	—
KING'S 5115	DOUGLASS W. KING COMPANY	79	193.6	—	—	—	—
SCR 10	Southern Corn Research	80	193.5	—	—	—	—
Exp. 88201Y	Tx. Agri. Exp. Stat.	81	191.3	59	169.3	—	—
ORO 180	ORO Hybrids	82	189.6	5	224.7	61	113.5
Exp. 89206Y	Tx. Agri. Exp. Stat.	83	189.2	—	—	—	—
Exp. 89203W	Tx. Agri. Exp. Stat.	84	188.8	—	—	—	—
Exp. 89202Y	Tx. Agri. Exp. Stat.	85	188.4	—	—	—	—
SCR 9	Southern Corn Research	86	186.7	—	—	—	—
Exp. 89207W	Tx. Agri. Exp. Stat.	87	170.7	—	—	—	—
Exp. 89201W	Tx. Agri. Exp. Stat.	88	159.3	—	—	—	—
Exp. 89204Y	Tx. Agri. Exp. Stat.	89	147.6	—	—	—	—
Exp. 89208Y	Tx. Agri. Exp. Stat.	90	137.8	—	—	—	—

Table 8B. Dumas, Texas (Continued)

HYBRID	COMPANY	1989		1988		1987	
		RANK	YIELD	RANK	YIELD	RANK	YIELD
G-4626	DELTA AND PINE LAND COMPANY	--	--	9	222.8	28	132.7
TR 3303	Big Crop Seed, Inc.	--	--	12	221.4	6	141.5
Rx 905	ASGROW SEED COMPANY	--	--	13	220.7	24	134.1
SX 2684	Hoegemeyer Seed Company	--	--	24	214.1	45	125.1
T-E 6995	Taylor-Evans Seed Company	--	--	27	211.2	44	126.0
3181	Pioneer Hi-Bred International, Inc.	--	--	33	205.2	16	137.5
1595	Triumph Seed Company, Inc.	--	--	35	204.9	10	139.8
8631	Conlee Seed Company, Inc.	--	--	44	201.5	62	112.2
ST-7625	SeedTec, Division of NAPB, Inc.	--	--	46	199.5	12	139.0
Number Entries:		90		60		70	
Test Mean Yield:		212.9		206.9		127.2	

Note: Hybrids with the same yields were ranked by computer

¹ The 1987 test was conducted on the North Plains Research Field near Etter.

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, 1989.

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 replications
Plot Size: 13.3 ft (4 beds) x 30 ft.
Row Spacing: Single row on 40-inch spaced beds
Soil Type: Pullman clay loam
Previous Crop: Fallow
Fertilizer: 10.3 tons/A manure, 123 lbs/A 11-52-0, 202 lbs N/A as anhydrous ammonia
Herbicide: 1 lb ai/A Dual and 1 lb ai/A Prowl layby
Insecticide: 1.3 lbs ai/A Counter 15G at planting, 2.4 lbs ai/A Comite, .06 lb ai/A Capture plus .33 lb ai/A Dimetholate and .25 gal oil for Southwestern corn borer and mites
Irrigations: Mar 17 preplant plus 3.9, 3.52, 3.52, 2.49, 2.36, 2.37, in/A applications 5-9, 6-28, 7-6, 7-13, 7-25, 8-1.
Planting Date: April 20
Plant Population: See Table S2
Harvest Date: September 27 & 28

RESULTS & DISCUSSION:

Table S2 contains all agronomic data recorded.

Good yields averaged above 200 bushels per acre in this test.

Three irrigation schedules were omitted by beneficial rainfall.

Presence of corn borers and mites was very light and controlled by insecticides.

Pea size hail the last of May and first part of June damaged corn leaves. Early corn growth was reduced due to incumbent weather. Some lodging occurred due to 62 mph winds August 6.

Plots, including ears from lodged plants, were harvested with a 4-row plot combine equipped with a corn saver head. Grain yields were adjusted to 15.5% moisture after harvest.

TABLE S2. Grain yield and other agronomic data for 47 corn grain hybrids evaluated for grain production at the Texas Agricultural Experiment Station, Halfway, Texas, 1989.

COMPANY OR BRAND NAME	HYBRID DESIGNATION	YIELD IN lb/A *	DUNCAN'S MRT AT 5% LEVEL **	YIELD IN bu/A ***	DAYS TO SILK ****	PLANT HEIGHT (IN)	MOISTURE %	BROKEN PLANTS % *****	LODGED PLANTS %	PLANT POP. PER ACRE
8315	Garst Seed Company	13111	A	234.1	82	103	18.2	5.0	2.0	31363
N7816	New Northrup King	12815	A-B	228.8	80	98	19.1	0.0	0.0	32942
Funk's G-4673B	DELTA AND PINE LAND	12732	A-C	227.3	80	101	19.1	0.0	1.0	32234
Rx 908	ASGROW SEED COMPANY	12560	A-D	224.3	81	101	19.3	0.0	0.0	32942
7993	Cargill Hybrid	12531	A-D	223.8	78	96	18.2	0.0	0.0	35174
EXP 892wcy	Conlee Seed Company	12489	A-E	223.0	78	98	19.1	0.0	0.0	34303
Toro 3303	Big Crop Seed, Int.	12477	A-E	222.8	77	100	17.8	2.0	0.0	30873
S7759	New Northrup King	12439	A-E	222.1	80	104	17.9	1.0	0.0	31608
WXC-111	WARNER SEED CO.	12405	A-E	221.5	76	99	18.6	0.0	0.0	32261
3168	Pioneer Hi-Bred	12320	A-E	220.0	78	97	19.6	0.0	2.0	31499
DK 711	DEKALB-PFIZER GEN.	12318	A-E	220.0	78	102	20.6	0.0	0.0	32778
8027	Cargill Hybrid	12300	A-E	219.6	78	97	17.7	0.0	0.0	34439
7877	Cargill Hybrid	12264	A-E	219.0	76	98	17.4	1.0	0.0	32724
GSC 2216	GroAgri Seed Co.	12254	A-E	218.8	81	99	17.5	3.0	1.0	34412
ORO 180	ORO Hybrids	12176	B-E	217.4	79	103	18.1	1.0	0.0	31771
TRx 8229	Triumph Seed Co.	12167	B-E	217.3	77	93	16.6	0.0	0.0	32179
Rx 807	ASGROW SEED COMPANY	12147	B-E	216.9	77	96	17.8	0.0	0.0	33786
S.G. 8215	Garrison Seed & Co.	12146	B-E	216.9	78	99	17.5	4.0	1.0	31063
Toro Bonito	Big Crop Seed, Int.	12140	B-E	216.8	77	99	18.8	0.0	0.0	32642
Sc 116	SeedCo Corporation	12044	B-F	215.1	80	98	18.1	1.0	0.0	32452
T-E 7055	Taylor-Evans Seed	12015	B-F	214.6	76	91	18.7	0.0	0.0	32343
Sc 119	SeedCo Corporation	11987	B-F	214.1	82	104	18.9	3.0	0.0	31689
Sc 123	SeedCo Corporation	11978	B-F	213.9	82	99	17.7	9.0	1.0	22125
ORO 150	ORO Hybrids	11975	B-F	213.8	79	95	18.0	2.0	0.0	34058
Px9540	New Northrup King	11969	B-F	213.7	77	98	18.6	0.0	0.0	31526
S.G. 8515	Garrison Seed & Co.	11963	B-F	213.6	79	102	17.8	0.0	0.0	31798
GSC 2333	GroAgri Seed Co.	11949	B-F	213.4	80	102	18.0	3.0	1.0	33405
Rx 905	ASGROW SEED COMPANY	11924	B-F	212.9	82	104	19.5	0.0	0.0	31172
ORO 190	ORO Hybrids	11866	B-F	211.9	78	92	18.6	0.0	0.0	30655
EXP 4176x	GroAgri Seed Co.	11858	B-F	211.8	76	93	17.7	0.0	0.0	31227
Funk's G-4513	DELTA AND PINE LAND	11813	C-F	210.9	77	96	17.8	0.0	0.0	30900
EXP 4161x	GroAgri Seed Co.	11805	C-F	210.8	78	93	18.2	1.0	0.0	32642
3162	Pioneer Hi-Bred	11798	C-F	210.7	78	87	19.9	0.0	0.0	31063
3189	Pioneer Hi-Bred	11726	D-G	209.4	78	91	19.4	0.0	0.0	29130
1595	Triumph Seed Co.	11676	D-G	208.5	79	99	18.3	0.0	0.0	32778
Funk's G-4571	DELTA AND PINE LAND	11639	D-H	207.8	79	97	18.2	0.0	0.0	29566
W-2192-A	WARNER SEED CO.	11535	E-I	206.0	79	100	17.9	2.0	0.0	31689

TABLE S2. Grain yield and other agronomic data for 47 corn grain hybrids evaluated for grain production at the Texas Agricultural Experiment Station, Halfway, Texas, 1989.

COMPANY OR BRAND NAME	HYBRID DESIGNATION	YIELD IN lb/A *	DUNCAN'S MRT AT 5% LEVEL **	YIELD IN bu/A ***	DAYS TO SILK ****	PLANT HEIGHT (IN)	MOISTURE %	BROKEN PLANTS % *****	LODGED PLANTS %	PLANT POP. PER ACRE
8707	Cargill Hybrid	11155	F-I	199.2	76	88	17.9	1.0	0.0	31744
3379	Pioneer Hi-Bred	11150	F-I	199.1	76	94	16.7	0.0	0.0	27306
F-3040	Frontier Hybrids	10864	G-J	194.0	79	100	18.4	0.0	0.0	25945
Rx 911	ASGROW SEED COMPANY	10787	H-J	192.6	81	95	19.6	0.0	0.0	27170
W-2192	WARNER SEED CO.	10780	H-J	192.5	82	107	19.9	1.0	0.0	28776
S.G. 8440	Garrison Seed & Co.	10700	I-J	191.1	82	99	19.7	0.0	0.0	31417
F-3045	Frontier Hybrids	10699	I-J	191.1	79	95	18.1	0.0	0.0	30274
W-2160	WARNER SEED CO.	10684	I-J	190.8	81	104	19.2	0.0	0.0	25645
2020	Triumph Seed Co.	10672	I-J	190.6	81	100	19.7	0.0	0.0	31308
EXP 4715x	GroAgri Seed Co.	10080	J	180.0	82	100	22.0	0.0	0.0	23631

TEST MEAN= 211.6 bu/A
 TEST C.V. = 4.6
 LSD .05 =13.6

* 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. October 20, 1989.

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