CORN 1993 Missouri Crop Performance

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MISSOURI CROP PERFORMANCE

1993

CORN

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The University of Missouri's hybrid performance testing program began in the mid-1930s, with results first published in 1937. The number of entries in the program has grown from fewer than 50 in the early years to 256 today.

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

COMPARING HYBRIDS

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

Hybrid performance may seem inconsistent from location to location and from year to year because of differences in rainfall, temperature, soil fertility, diseases, insects, and other factors. To obtain an improved estimate of relative hybrid performance, readers should consider results from more than one location or year. In this publication, the authors have tried to facilitate comparisons across years and locations.

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

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a corn hybrid. Stalk strength, maturity and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. Later maturing hybrids may require more drying. The maturity classification listed for each hybrid in this bulletin is based solely on information supplied by the entry's sponsor. A hybrid with an abnormally low or high moisture content within a maturity group may be incorrectly classified for Missouri conditions. Poor stalk strength and or susceptibility to pests may decrease harvestable yield because of lodging or stand loss.

The Missouri Agricultural Experiment Station does not make specific recommendations for hybrids. Farmers growing a new hybrid for the first time should consider all the information available and then grow a small acreage to determine adaptability. This should be the practice for all new hybrids regardless of origin.

EXPERIMENTAL PROCEDURES

Four types of tests were conducted. Full-season hybrids (101-140 day maturity classification) were evaluated in irrigated and non-irrigated tests. Early maturing hybrids (less than 100 day maturity classification) were evaluated in non-irrigated tests. These latter tests were made part of the program in 1988 to provide information to growers interested in production of early maturing hybrids. Popcorn hybrids (90-140 day maturity) were evaluated under irrigation. The popcorn program is part of a National Popcorn Test coordinated by Purdue University.

Locations. On the basis of geographical characteristics, the state is divided into regions. Corn hybrid evaluation trials are located in the northern, central, southwestern and southeastern regions of the state. Trial locations are shown on the adjacent map.

Entries. All producers of hybrid seed were eligible to enter the 1993 corn evaluation trials. Participation was voluntary and the test coordinators exercised no control over which, or how many hybrids were entered. To help finance the evaluation program, the participants paid $90 per location for each hybrid entered.

Field Plot Design. All regular dryland and irrigated tests were arranged in lattice field plot designs with three replications. The early maturing hybrid and popcorn tests used a randomized block design with four replications. At all locations, plots were four rows wide with a between-row spacing of 30 inches. Only the center two rows were harvested to determine yield.

Plot Management. All tests were planted and harvested with commercial equipment modified for small plot work. Preplant fertilizer was applied at each site at the discretion of the farmer or the station manager. Sidedress fertilizer was applied to increase yields as needed. Pre-emergence herbicides were used to control weeds, and additional hand weeding was done as required. Management details varied from location to location and are specified on each table of results.

Data Recorded. Plant stands were counted near the time of tasseling. Lodging was determined immediately before harvest. Plants leaning more than 30 degrees from vertical and those bent or broken below the ear were counted as lodged. During harvest, plot grain weights were measured and an electronic moisture tester was used to determine the moisture percentage of the grain. Yields for full-season and early-maturing corn were calculated from data collected and reported in bushels (56 pounds) per acre at a moisture content of 15.5 percent. Guidelines provided by the University of Missouri for placement in a maturity group are shown below.

MATURITY GROUP	# DAYS TO MATURITY	GROWING DEGREE DAYS
1	101-110	< 2600
2	111-120	2600-2699
3	121-130	2700-2799
4	131-140	> 2800

Electronic Accessibility of Data. Results of the Missouri Crop Performance Trials are now available in two forms: this printed Special Report and Missouri's Agricultural Electronic Bulletin Board (AgEBB). Variety test information is accessible from the MAIN MENU of the AgEBB under "CROP PERFORMANCE TESTING". The telephone number for AgEBB is 314/882-8289. If you need assistance in accessing the system call 314/882-4827 for the system staff's help.

SUMMARY OF RESULTS

Results are presented by region within the state. For each location, data on final plant stand, total (root plus stalk) lodging, moisture content at harvest, and yield adjusted for moisture are given for each hybrid. Because harvest was delayed until the latest hybrids in the test were mature, moisture differences among many of the early maturing entries may be small. In this report, hybrids are ranked according to yield. When hybrids having similar yields differ greatly in percent water content, it most likely indicates that these hybrids differ in maturity classification or dry-down rate.

Corn hybrids were evaluated in four full-season dryland, six full-season irrigated, three early maturing non-irrigated in 1993. Management was as uniform as possible across locations. Growing season (April-August) rainfall and irrigation applied at each location are shown on individual data tables. One full-season test and the popcorn test were lost due to flooding or excessive wet conditions.

Average yields and yield ranges observed at each location are summarized in Table 1. The ranges give the values of the lowest and highest yielding corn hybrids in each test. These values indicate the wide variation in yield potential among hybrids available in Missouri today. The use of data presented in this Special Report should increase the probability of selecting hybrids that combine high yield potential with other agronomic characteristics beneficial to specific farming situations.

TABLE 1. 1993 HYBRID CORN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	TEST TYPE	YIELD (BU/ACRE) RANGE	YIELD (BU/ACRE) AVERAGE	DATA TABLE
Barnard	144	Dryland	68-130	100	2
Novelty	144	Dryland	103-164	137	3
Marshall	114	Dryland	96-172	135	5
Columbia	90	Irrigated	145-201	180	6
Laddonia	90	Irrigated	109-169	144	7
Nevada	62	Irrigated	75-127	104	9
Lamar	62	Irrigated	71-139	103	10
Oran	82	Irrigated	130-205	172	12
New Madrid	82	Irrigated	139-195	169	13
Marshall	21	Early Maturing	110-142*	124	15
Columbia	21	Early Maturing	133-182*	155	16
Lamar	21	Early Maturing	19-75*	47	17

* Based on early maturing hybrids only (excluded early and mid full season hybrids and full season check).

During 1993 a cool, wet spring caused some emergence stand problems. The growing season of 1993 was characterized by record setting rainfall for the state. The lack of adequate sun resulted in low yields and small ears. The test at McKittrick was lost due to flooding of the Missouri River. The popcorn test at Oran was lost due to excessive rainfall following planting.

TABLE 2. Performance of Corn Hybrids evaluated near Barnard (Nodaway County) on the Meyer Brothers Farm during 1991-93.

Planted: 25 May 1993
Harvested: 5 October 1993
Planted Population: 23200
Row Spacing: 30 inches
Soil Type: Nodaway Silt Loam
Soil Test: pH=6.3, OM=3.2%, P=59, K=530

Fertilizer: N=165; P_2O_5=0; K_2O=0
Herbicide: Bronco + Extrazine
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Soybean

Growing Season Rainfall: May=6.4, June=10.6, July=21.4, Aug.=1.4, Sept.=13.2, TOTAL=53.0"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Rainbow 3168(sx)	2	21300	27.6	1.8	130.5**	--	--	--	--
Cargill 7997(sx)	4	21100	25.4	2.1	128.0*	225.5*	180.2*	176.8	177.9
Pioneer Hybrid 3394(sx)	2	18500	21.8	2.3	125.8*	246.2**	171.3	186.0	181.2
Lynks 2868(sx)	2	19800	25.9	2.3	123.8*	229.9*	--	176.9	--
Pioneer Hybrid 3417(sx)	3	19100	21.9	0.7	119.7*	210.2	176.7*	165.0	168.9
Hawkeye Hybrids 7378(sx)	2	18900	25.7	1.2	118.7*	234.0*	--	176.4	--
NC+ 6414(sx)	2	19300	25.6	1.4	118.3*	--	--	--	--
Lewis 4503(sx)	1	19600	24.2	2.4	117.6*	--	--	--	--
Pfister 3965(sx)	2	20800	26.5	0.0	117.6*	229.7*	--	173.6	--
Dekalb DK671(sx)	2	18700	28.8	1.3	117.4*	226.0*	167.8	171.7	170.4
Merschman M-3117(sx)	1	20800	26.3	1.1	115.3*	--	--	--	--
Dekalb DK646(sx)	2	17900	27.2	1.9	114.8*	231.0*	175.3*	172.9	173.7
Merschman M-3120(sx)	1	20600	24.9	2.2	114.5*	--	--	--	--
Cargill 7697(sx)	3	19900	26.2	3.0	114.3*	245.3*	163.8	179.8	174.5
Lynks 2829(sx)	2	21000	29.4	1.9	114.2*	232.2*	172.2	173.2	172.9
Lewis 8492(sx)	3	19900	26.4	0.1	114.0*	215.1	--	164.6	--
Pioneer Hybrid 3162(sx)	4	18900	24.9	2.4	113.4*	219.9*	165.3	166.7	166.2
Golden Harvest Ex.395(sx)	2	20400	27.7	2.8	112.6*	--	--	--	--
Dairyland Stealth-1118(sx)	1	21100	27.5	2.8	112.5*	--	--	--	--
Golden Harvest H-2641(sx)	2	20700	26.6	2.3	112.3*	220.7*	--	166.5	--
Cargill 8327(sx)	4	19900	27.5	1.7	111.6*	--	--	--	--
Lewis 5252(sx)	1	19800	24.7	0.6	111.1*	--	--	--	--
Lewis 3945(sx)	1	21300	25.2	1.6	110.8*	239.2*	--	175.0	--
Bo-Jac 629(sx)	3	20900	24.7	2.0	110.2*	229.3*	--	169.8	--
Ohlde 359(sx)	3	19600	26.2	0.1	109.6*	--	--	--	--
NeCo A107(sx)	2	20000	27.9	2.3	109.1*	--	--	--	--
Pioneer Hybrid 3245(sx)	4	19800	20.1	0.5	108.3	223.2*	177.2*	165.8	169.6
Pioneer Hybrid 3525(sx)	2	19000	20.6	2.6	108.3	--	--	--	--
Pioneer Hybrid 3317(sx)	4	19900	21.9	2.2	107.7	224.8*	162.8	166.3	165.1
MFA 5823(sx)	4	20200	27.5	2.3	107.5	--	--	--	--
Bo-Jac 925(sx)	3	20600	27.0	0.4	107.4	235.4*	--	171.4	--
Ciba 4581(sx)	2	21200	27.5	2.1	107.0	--	--	--	--
Unity Seed US 6293(sx)	2	18200	26.6	2.0	106.8	--	--	--	--
Wilson 2330(sx)	4	20800	31.3	1.1	106.7	201.8	157.0	154.3	155.2
Dairyland Stealth-1216(sx)	1	20700	23.9	2.2	106.4	--	--	--	--
Golden Harvest H-2544(sx)	1	20300	25.2	3.5	106.0	236.9*	--	171.5	--
Cargill 8177(sx)	4	18600	25.8	1.3	105.9	202.4	--	154.2	--
Middlekoop 452(sx)	2	20000	25.7	1.3	105.0	218.5*	--	161.8	--
Golden Harvest H-2525(sx)	1	21200	21.0	2.8	105.0	233.0*	181.2*	169.0	173.1
Middlekoop 717(sx)	2	20200	23.6	1.7	104.9	--	--	--	--
Fontanelle 6162(sx)	1	19600	23.9	1.8	104.7	233.1*	--	168.9	--
Pioneer Hybrid 3163(sx)	4	18800	30.3	0.7	104.7	--	--	--	--
Asgrow RX897(sx)	1	20900	28.0	0.0	104.6	--	--	--	--
Rainbow 2175(sx)	2	20200	26.4	0.2	104.3	--	--	--	--
Shissler LG 27.05(sx)	2	20900	27.1	0.9	104.3	208.8	--	156.6	--
Crow's SL70(sx)	2	19500	24.4	5.2	104.2	--	--	--	--
AgriGene AG7890(sx)	4	20300	27.7	3.4	104.0	--	--	--	--
Asgrow RX801(sx)	1	19500	25.2	2.6	103.6	--	--	--	--
NeCo A100(sx)	1	20500	21.7	1.6	103.4	227.0*	--	165.2	--
Lynks 2692(sx)	1	19300	22.7	1.8	103.4	--	--	--	--
AgriPro AP 674(sx)	1	20500	24.8	3.4	103.1	217.3	--	160.2	--
HyPerformer HS 9487(sx)	1	20400	22.8	1.2	102.9	--	--	--	--
Middlekoop 718(sx)	2	19100	28.5	1.2	102.5	--	--	--	--
Stine 1154(sx)	1	19700	22.7	0.6	102.4	--	--	--	--
Bo-Jac 335(sx)	1	20100	19.8	0.1	102.2	--	--	--	--
Lewis 7288(sx)	3	19200	26.2	0.1	102.2	234.2*	192.0*	168.2	176.1
HyPerformer HS 9843(sx)	3	18800	27.5	0.7	102.0	218.7*	--	160.4	--
Northrup King N7768(sx)	4	19500	27.3	0.6	101.6	218.3*	183.1*	160.0	167.7

TABLE 2. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	Means 3 Yr.
Ohlde 510(sx)	3	20100	25.7	0.8	101.5	--	--	--	--
Asgrow RX896(sx)	2	19500	27.1	0.0	101.1	--	--	--	--
Crow's 668(sx)	2	20000	25.2	1.6	100.9	--	--	--	--
Golden Harvest H-2530(sx)	1	20300	22.9	0.5	100.9	--	--	--	--
Querna 7870(sx)	1	19800	26.5	1.9	100.8	233.6*	169.2	167.2	167.9
Middlekoop 516(sx)	2	18700	27.5	1.1	100.3	219.5*	--	159.9	--
MFA 4512(sx)	2	18900	21.1	0.6	100.2	214.0	180.0*	157.1	164.7
Triumph 1452(sx)	1	19400	25.3	2.9	100.0	--	--	--	--
Middlekoop 715(sx)	2	19200	22.6	0.8	99.9	--	--	--	--
Terra - TR 1168(sx)	3	21200	26.6	2.4	99.8	--	--	--	--
ICI 8543(sx)	2	19900	21.5	0.5	99.7	232.4*	190.0*	166.1	174.0
HyPerformer HS 9484(sx)	1	20200	22.4	3.4	99.6	--	--	--	--
Growers 4172(sx)	2	20500	32.3	2.1	99.4	214.4	172.9	156.9	162.2
Unity Seed US 6220(sx)	2	20900	23.9	1.3	99.3	--	--	--	--
Lynks 2812(sx)	2	20500	25.4	0.5	99.3	217.9*	175.9*	158.6	164.4
Growers 4202(sx)	1	19600	24.0	2.3	99.1	217.5	--	158.3	--
Fontanelle 6235(spx)	1	19400	24.1	1.2	99.0	218.0*	178.9*	158.5	165.3
Bo-Jac 7195(sx)	2	19700	26.3	2.3	98.5	213.4	--	156.0	--
Pfister 3600(sx)	2	19800	25.6	1.0	98.1	222.9*	--	160.5	--
AgriGene MC7372(sx)	4	18700	24.5	0.6	97.9	227.2*	181.8*	162.6	169.0
MFA 5513(sx)	4	18200	28.4	1.1	97.7	--	--	--	--
Dekalb DK711(sx)	3	20600	25.9	3.9	97.4	231.8*	180.0*	164.6	169.7
Crow's 510(sx)	1	20400	24.2	1.6	97.2	--	--	--	--
M/W Genetics G 8460(sx)	1	19200	23.5	0.0	97.1	--	--	--	--
M/W Genetics G 8700(sx)	1	19200	29.3	1.4	97.1	--	--	--	--
Shissler LG 26.21(sx)	2	19900	25.8	2.9	96.6	--	--	--	--
McAllister 8408(sx)	2	20300	23.5	0.0	96.2	220.0*	175.0*	158.1	163.7
HyPerformer HS 9773(sx)	2	20100	29.9	0.6	95.7	219.9*	--	157.8	--
Triumph 1270(sx)	1	19800	22.0	0.4	95.7	219.1*	175.9*	157.4	163.6
Dyna-Gro 5491-IPro(sx)	3	18800	23.3	0.4	95.7	--	168.5	--	--
Ohlde 300(sx)	3	19600	29.1	3.6	95.7	--	--	--	--
Burrus BX74(sx)	3	20700	23.5	1.2	95.6	--	--	--	--
Querna 7300(sx)	2	19000	21.7	0.4	95.2	--	--	--	--
McAllister 9316(sx)	2	20000	23.4	0.5	95.2	--	--	--	--
NC+ 7117(sx)	2	20900	26.7	1.2	94.8	--	--	--	--
AgriPro AP 670(sx)	1	20700	23.0	0.5	94.6	222.5*	--	158.6	--
Merschman M-3115(sx)	1	19900	25.3	1.7	94.5	--	--	--	--
Mycogen 7220(sx)	1	19100	24.7	0.5	94.4	--	--	--	--
Terra - TR 641E(sx)	2	19400	26.1	1.8	94.4	215.3	--	154.9	--
NC+ 5037(sx)	2	20700	24.6	2.6	94.3	--	--	--	--
Dairyland Stealth-1115(sx)	1	19800	23.4	2.4	94.2	--	--	--	--
Northrup King N6484(sx)	3	20000	24.1	3.0	94.2	--	--	--	--
Querna 7730(sx)	2	19800	26.9	1.2	94.1	--	--	--	--
Golden Harvest Ex.552(sx)	1	18800	22.6	0.0	94.1	--	--	--	--
Merschman M-1117(sx)	1	18900	24.2	1.8	94.0	208.3	--	151.2	--
Asgrow RX783(sx)	1	21100	24.2	1.0	93.9	--	--	--	--
MFA 3516(sx)	4	21300	24.2	1.7	93.9	228.7*	177.4*	161.3	166.7
Triumph 2010(sx)	2	19600	28.5	1.3	93.9	232.5*	--	163.2	--
Merschman M-3116(sx)	1	19800	25.2	0.7	93.9	--	--	--	--
Golden Harvest H-2592(sx)	2	18000	26.5	1.9	93.8	215.0	177.6*	154.4	162.1
Querna 7220(sx)	2	21800	22.5	1.2	93.5	--	--	--	--
Fontanelle 6340(sx)	2	19400	26.7	0.5	93.4	213.4	169.4	153.4	158.7
Lewis 4983(sx)	1	20600	23.4	1.1	93.0	--	--	--	--
Merschman M-2118(sx)	1	21700	25.4	2.0	92.9	205.2	--	149.1	--
Dyna-Gro 5470(sx)	2	18300	22.9	1.4	92.8	195.5	173.6	144.2	154.0
Northrup King N7707(sx)	4	21500	25.2	1.5	92.8	--	--	--	--
Asgrow RX899(sx)	1	20700	26.1	1.1	92.7	228.5*	175.6*	160.6	165.6
Wilson E11961(sx)	4	19900	32.7	1.7	92.4	--	--	--	--
Ciba 4494(sx)	2	20500	22.8	0.0	92.4	--	--	--	--
Terra - TR 1167(sx)	3	19700	29.4	1.3	92.1	216.6	--	154.4	--
Crow's 667(sx)	2	19500	29.8	2.1	92.0	231.4*	--	161.7	--
Burrus BX64(sx)	3	20200	24.1	1.0	91.7	--	--	--	--
Merschman M-2121(sx)	1	21500	28.5	1.8	91.7	--	--	--	--
HyPerformer HS 9848(sx)	3	20200	27.8	1.4	91.6	--	--	--	--
Stine 1118(sx)	1	21100	24.5	0.6	91.6	--	171.8	--	--
Shissler LG 25.61(sx)	2	19500	22.6	1.8	91.3	--	--	--	--

TABLE 2. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%)	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	Means 3 Yr.
Lynks 2763(sx)	2	18500	21.4	0.0	91.3	--	--	--	--
Golden Harvest H-2548(sx)	1	20200	24.1	1.6	91.0	--	--	--	--
Northrup King N6330(sx)	3	19400	21.9	2.4	90.0	221.8*	181.0*	155.9	164.3
Rainbow 2142(sx)	2	19500	21.5	1.7	89.8	--	--	--	--
Middlekoop 514(sx)	2	22100	25.5	3.1	89.8	221.8*	--	155.8	--
Burrus BX76(sx)	4	19300	25.4	1.3	89.0	220.2*	--	154.6	--
NC+ 5963(sx)	2	20000	23.7	1.2	88.8	211.2	176.2*	150.0	158.7
HyPerformer HS 9502(sx)	1	20800	23.9	3.3	88.8	212.2	--	150.5	--
Ciba 4651(sx)	2	20400	26.5	1.8	88.3	197.2	--	142.8	--
AgriPro AP 638(sx)	1	20000	26.1	2.1	87.1	211.4	--	149.3	--
Dyna-Gro 5550(sx)	3	19700	25.7	1.7	85.8	218.4*	174.3*	152.1	159.5
NeCo A105(sx)	2	20400	24.9	1.8	85.4	219.5*	178.5*	152.5	161.1
Unity Seed US 6285(sx)	2	20400	24.8	3.9	85.3	--	--	--	--
Ohlde 371(sx)	2	19500	23.4	3.0	84.7	--	--	--	--
ICI 8326(sx)	2	17700	23.7	1.3	84.6	196.5	192.9**	140.6	158.0
AgriGene AG7885(sx)	4	20800	27.9	0.6	81.6	225.8*	--	153.7	--
Terra - TR 563E(sx)	4	19000	27.7	1.1	80.4	--	--	--	--
ICI N8281(sx)	3	20200	26.5	1.6	80.4	--	--	--	--
McAllister 9118(sx)	2	21300	24.5	0.6	77.8	208.4	186.9*	143.1	157.7
Wilson Demand 116(sx)	4	18600	30.2	1.2	68.3	--	--	--	--
TRIAL AVERAGE		19938	25.3	1.5	100.1	218.4	174.3	159.2	164.3
L.S.D. AT .05		2161	2.7	NS	22.0	28.4	18.9		
C.V. %		6.6	6.6		13.5	8.1	6.7		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 3. Performance of Corn Hybrids evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1991-93.

Planted: 19 May 1993
Harvested: 4 October 1993
Planted Population: 23200
Row Spacing: 30 inches
Soil Type: Putnam Silt Loam
Soil Test: pH=6.5, OM=2.2%, P=48, K=300

Fertilizer: N=160; P_2O_5=50; K_2O=100
Herbicide: Bicept + Extrazine
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Soybean

Growing Season Rainfall: May=5.7, June=11.7, July=9.7, Aug.=4.9, Sept.=9.0, TOTAL=41.0"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Pioneer Hybrid 3394(sx)	2	20500	23.4	1.7	164.2**	205.6*	76.6	184.9	148.8
Terra - TR 641E(sx)	2	21000	26.9	2.7	161.6*	162.2	--	161.9	--
Fontanelle 6340(sx)	2	19700	26.9	1.8	160.7*	173.5	48.9	167.1	127.7
Pfister 3600(sx)	2	21200	27.5	2.7	160.4*	221.6*	--	191.0	--
Wilson 2330(sx)	4	21200	31.1	1.1	159.9*	170.8	114.7**	165.4	148.5
AgriGene AG7885(sx)	4	20000	26.9	1.7	157.5*	212.8*	--	185.2	--
Lynks 2868(sx)	2	21500	26.3	1.1	155.5*	208.2*	--	181.9	--
Merschman M-3115(sx)	1	20800	24.7	4.3	155.4*	--	--	--	--
Golden Harvest H-2592(sx)	2	19500	26.3	2.3	153.9*	208.8*	27.6	181.4	130.1
Ohlde 359(sx)	3	19600	25.3	1.9	153.8*	--	--	--	--
Rainbow 2175(sx)	2	20700	27.4	0.0	153.6*	--	--	--	--
AgriGene AG7890(sx)	4	19900	28.1	1.7	153.5*	--	--	--	--
Lewis 8492(sx)	3	21600	26.9	1.1	153.1*	205.7*	--	179.4	--
Shissler LG 27.05(sx)	2	21200	27.7	1.7	152.3*	202.6*	--	177.5	--
Querna 7300(sx)	2	18900	26.1	2.5	152.0*	--	--	--	--
Crow's SL70(sx)	2	21600	25.7	4.2	150.5*	--	--	--	--
Cargill 7997(sx)	4	20400	29.7	0.5	150.3*	209.2*	50.8	179.8	136.8
Hawkeye Hybrids 7378(sx)	2	20300	26.6	2.3	150.1*	201.4*	--	175.8	--
Bo-Jac 629(sx)	3	21000	27.6	0.6	150.0*	217.4*	--	183.7	--
Lynks 2812(sx)	2	20900	27.3	3.3	150.0*	212.4*	30.7	181.2	131.0
Pioneer Hybrid 3163(sx)	4	20500	28.4	2.3	149.6*	--	--	--	--
Ohlde 371(sx)	2	21000	27.5	3.2	149.1*	--	--	--	--
Pioneer Hybrid 3525(sx)	2	20300	21.4	5.8	149.0*	--	--	--	--
Golden Harvest H-2641(sx)	2	21000	27.8	0.5	148.9*	197.5*	--	173.2	--
McAllister 9316(sx)	2	19700	25.1	3.0	148.6*	--	--	--	--
Merschman M-3120(sx)	1	21500	25.5	1.1	147.9*	--	--	--	--
Middlekoop 717(sx)	2	21400	27.4	2.2	147.8*	--	--	--	--
Pfister 3965(sx)	2	21000	27.9	2.2	147.8*	219.1*	--	183.5	--
MFA 5823(sx)	4	20000	27.9	2.4	147.5*	--	--	--	--
Fontanelle 6162(sx)	1	21700	25.7	4.7	146.8*	211.7*	--	179.3	--
Dairyland Stealth-1216(sx)	1	20800	29.3	0.0	146.8*	--	--	--	--
Dyna-Gro 5491-IPro(sx)	3	20800	26.2	1.1	146.7*	--	12.4	--	--
Cargill 7697(sx)	3	19800	27.2	4.8	145.7*	201.9*	37.1	173.8	128.2
Cargill 8177(sx)	4	21200	26.5	2.8	145.6*	223.1**	--	184.4	--
HyPerformer HS 9843(sx)	3	19900	28.1	1.8	145.5*	213.1*	--	179.3	--
Burrus BX76(sx)	4	19300	26.0	2.1	145.4*	196.4*	--	170.9	--
NC+ 7117(sx)	2	19400	28.9	1.3	145.1*	--	--	--	--
Querna 7870(sx)	1	20300	26.9	1.2	145.1*	182.2	23.9	163.6	117.1
Dekalb DK671(sx)	2	20400	28.4	1.2	145.0*	188.0	16.1	166.5	116.4
Pioneer Hybrid 3162(sx)	4	19500	27.1	2.3	144.7*	210.7*	44.0	177.7	133.1
ICI 8543(sx)	2	20900	22.5	4.0	144.5*	187.2	45.1	165.9	125.6
Cargill 8327(sx)	4	20600	28.5	0.6	144.4*	--	--	--	--
Dairyland Stealth-1115(sx)	1	21800	26.0	5.4	144.2*	--	--	--	--
HyPerformer HS 9848(sx)	3	20100	28.5	0.0	144.2*	--	--	--	--
Northrup King N7768(sx)	4	19900	26.7	3.5	144.2*	163.3	36.5	153.8	114.7
Growers 4172(sx)	2	19700	28.3	7.9	143.5*	174.1	70.6	158.8	129.4
Middlekoop 718(sx)	2	20200	29.4	3.5	143.4*	--	--	--	--
Crow's 667(sx)	2	20300	27.6	2.3	143.2*	181.2	--	162.2	--
Golden Harvest H-2548(sx)	1	20300	25.0	0.6	143.0*	--	--	--	--
Fontanelle 6235(spx)	1	21300	24.9	3.3	142.7*	196.1*	25.7	169.4	121.5
Unity Seed US 6220(sx)	2	19300	25.0	4.9	142.3*	--	--	--	--
ICI N8281(sx)	3	22300	29.8	2.1	142.1*	--	--	--	--
Burrus BX74(sx)	3	20200	25.1	4.2	142.0*	--	--	--	--
Triumph 1270(sx)	1	20500	22.8	4.0	142.0*	198.3*	51.0	170.2	130.4
Unity Seed US 6293(sx)	2	19300	27.9	0.6	141.7*	--	--	--	--
Triumph 2010(sx)	2	19800	27.6	1.7	141.7*	203.8*	--	172.8	--
McAllister 9118(sx)	2	20200	27.7	1.8	141.5*	165.4	4.9	153.5	103.9
Bo-Jac 7195(sx)	2	19300	29.0	1.2	141.2*	180.3	--	160.8	--

TABLE 3. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	Means 3 Yr.
NC+ 5963(sx)	2	21400	25.9	3.3	141.2*	189.8	14.3	165.5	115.1
Pioneer Hybrid 3417(sx)	3	20100	24.5	2.8	140.6*	196.0*	106.9*	168.3	147.8
Rainbow 3168(sx)	2	19900	29.2	4.2	140.4*	--	--	--	--
Pioneer Hybrid 3317(sx)	4	19800	25.5	2.3	140.4*	196.6*	101.7*	168.5	146.2
Golden Harvest Ex.395(sx)	2	19300	28.8	1.2	140.1*	--	--	--	--
MFA 3516(sx)	4	22100	26.1	3.2	139.7*	174.8	33.9	157.3	116.1
Merschman M-3116(sx)	1	22000	25.0	1.0	139.4*	--	--	--	--
Crow's 668(sx)	2	20600	29.0	2.8	139.0*	--	--	--	--
Pioneer Hybrid 3245(sx)	4	20800	24.9	3.4	138.7*	204.0*	58.7	171.4	133.8
Middlekoop 514(sx)	2	20800	26.4	1.1	138.4*	190.7	--	164.6	--
Dyna-Gro 5470(sx)	2	20900	24.0	3.8	137.1*	187.0	45.0	162.1	123.0
Asgrow RX899(sx)	1	18800	28.4	2.5	136.9*	207.0*	113.9*	172.0	152.6
Northrup King N7707(sx)	4	20900	27.4	0.6	136.7*	--	--	--	--
MFA 5513(sx)	4	19600	29.1	4.7	136.6*	--	--	--	--
Middlekoop 715(sx)	2	20800	25.7	1.7	136.5*	--	--	--	--
Growers 4202(sx)	1	20400	26.5	4.9	136.2	216.1*	--	176.1	--
Bo-Jac 925(sx)	3	19500	29.3	1.1	136.2	211.0*	--	173.6	--
Lynks 2763(sx)	2	20700	25.0	2.9	136.1	--	--	--	--
AgriPro AP 670(sx)	1	20600	25.6	1.7	136.0	200.2*	--	168.1	--
Querna 7730(sx)	2	21900	29.2	1.6	135.9	--	--	--	--
Asgrow RX897(sx)	1	21100	28.0	1.7	135.8	--	--	--	--
Ohlde 510(sx)	3	21600	27.9	1.1	135.7	--	--	--	--
Lewis 4983(sx)	1	20600	24.0	2.8	135.7	--	--	--	--
NC+ 6414(sx)	2	20700	27.7	4.1	135.5	--	--	--	--
M/W Genetics G 8700(sx)	1	21900	29.0	2.6	135.3	--	--	--	--
Ciba 4494(sx)	2	21700	24.9	1.0	135.3	--	--	--	--
Lynks 2692(sx)	1	20500	25.4	4.4	135.3	--	--	--	--
Bo-Jac 335(sx)	1	21700	21.7	3.2	135.1	--	--	--	--
NeCo A105(sx)	2	22200	25.0	2.1	134.8	204.2*	29.5	169.5	122.8
AgriPro AP 674(sx)	1	21500	27.5	2.2	134.7	196.0*	--	165.4	--
NeCo A107(sx)	2	20400	27.8	1.1	134.5	--	--	--	--
Asgrow RX801(sx)	1	20400	28.0	1.9	134.3	--	--	--	--
Golden Harvest H-2530(sx)	1	22000	24.9	1.0	134.0	--	--	--	--
Golden Harvest Ex.552(sx)	1	19200	25.7	4.4	133.9	--	--	--	--
AgriGene MC7372(sx)	4	20800	25.7	5.2	133.8	210.5*	71.9	172.2	138.7
Dekalb DK646(sx)	2	20700	27.9	3.4	133.7	218.5*	9.8	176.1	120.7
Dyna-Gro 5550(sx)	3	20700	26.1	3.5	133.6	188.6	30.8	161.1	117.7
Lynks 2829(sx)	2	21500	27.7	2.7	133.1	184.4	112.1*	158.8	143.2
McAllister 8408(sx)	2	20900	26.1	2.3	132.4	206.7*	23.9	169.6	121.0
M/W Genetics G 8460(sx)	1	21400	25.5	3.7	132.4	--	--	--	--
Merschman M-2121(sx)	1	21100	27.5	2.0	132.0	--	--	--	--
Merschman M-1117(sx)	1	21500	25.5	1.6	132.0	202.4*	--	167.2	--
Lewis 4503(sx)	1	20100	24.8	2.3	131.8	--	--	--	--
Lewis 5252(sx)	1	21100	27.8	2.2	131.4	--	--	--	--
Asgrow RX783(sx)	1	21100	25.8	2.8	131.0	--	--	--	--
Golden Harvest H-2544(sx)	1	21600	25.8	2.6	130.9	210.2*	--	170.6	--
Ciba 4581(sx)	2	20200	26.6	5.0	130.8	--	--	--	--
Dairyland Stealth-1118(sx)	1	21200	28.6	1.6	129.5	--	--	--	--
HyPerformer HS 9773(sx)	2	20400	28.2	5.1	129.5	207.1*	--	168.3	--
ICI 8326(sx)	2	20700	26.0	5.1	129.4	190.7	24.3	160.1	114.8
Dekalb DK711(sx)	3	20400	26.4	2.8	128.9	207.5*	23.7	168.2	120.0
NeCo A100(sx)	1	20400	23.4	3.9	127.8	195.0*	--	161.4	--
Wilson Demand 116(sx)	4	21000	30.5	1.1	127.6	--	--	--	--
HyPerformer HS 9484(sx)	1	21600	22.9	3.2	127.5	--	--	--	--
Lewis 3945(sx)	1	21200	24.5	2.8	127.1	209.2*	--	168.1	--
Ciba 4651(sx)	2	20700	29.6	1.1	126.9	178.3	--	152.6	--
Crow's 510(sx)	1	19800	25.8	1.4	126.8	--	--	--	--
Stine 1118(sx)	1	21400	25.9	2.1	125.9	--	21.7	--	--
Rainbow 2142(sx)	2	21200	26.3	5.9	125.8	--	--	--	--
NC+ 5037(sx)	2	21200	26.0	1.1	125.6	--	--	--	--
Lewis 7288(sx)	3	20600	28.3	1.0	125.6	196.1*	17.4	160.9	113.0
Terra - TR 563E(sx)	4	21200	29.6	4.3	125.5	--	--	--	--
Northrup King N6330(sx)	3	20800	24.4	1.6	125.3	189.2	30.8	157.3	115.1
Merschman M-2118(sx)	1	20700	28.1	1.1	125.3	204.4*	--	164.9	--
Merschman M-3117(sx)	1	19800	27.9	2.3	125.1	--	--	--	--
Middlekoop 516(sx)	2	18900	25.6	3.9	125.1	179.0	--	152.1	--

TABLE 3. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%)	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	Means 3 Yr.
Mycogen 7220(sx)	1	20900	25.1	2.7	124.9	--	--	--	--
Terra - TR 1168(sx)	3	21400	29.0	1.1	124.5	--	--	--	--
Ohlde 300(sx)	3	21300	28.4	0.5	124.3	--	--	--	--
Asgrow RX896(sx)	2	19600	29.5	1.1	124.0	--	--	--	--
Shissler LG 26.21(sx)	2	20900	25.7	3.2	122.2	--	--	--	--
AgriPro AP 638(sx)	1	21200	27.7	3.3	121.7	201.3*	--	161.5	--
HyPerformer HS 9502(sx)	1	19400	27.3	2.4	121.6	200.2*	--	160.9	--
Terra - TR 1167(sx)	3	20700	27.6	0.5	121.2	213.7*	--	167.5	--
Stine 1154(sx)	1	20600	26.0	1.7	120.9	--	--	--	--
Burrus BX64(sx)	3	20100	24.0	1.7	118.0	--	--	--	--
Wilson E11961(sx)	4	20000	28.9	1.7	116.7	--	--	--	--
Golden Harvest H-2525(sx)	1	19500	23.6	1.2	116.6	179.8	31.9	148.2	109.4
Shissler LG 25.61(sx)	2	20100	25.1	5.7	116.0	--	--	--	--
Middlekoop 452(sx)	2	21300	26.5	2.8	115.8	212.8*	--	164.3	--
Northrup King N6484(sx)	3	20700	25.5	3.9	115.7	--	--	--	--
Triumph 1452(sx)	1	21000	25.2	3.8	113.2	--	--	--	--
Unity Seed US 6285(sx)	2	21300	25.5	1.1	112.6	--	--	--	--
HyPerformer HS 9487(sx)	1	20800	24.2	7.1	112.4	--	--	--	--
Querna 7220(sx)	2	19100	25.5	3.2	107.0	--	--	--	--
MFA 4512(sx)	2	20100	23.4	1.7	102.6	198.1*	29.5	150.4	110.1
TRIAL AVERAGE		20620	26.6	2.5	137.1	192.7	40.3	164.9	123.4
L.S.D. AT .05		NS	2.4	3.5	27.9	30.5	27.8		
C.V. %		6.5	5.4		12.5	9.8	42.8		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 4. Performance of Corn Hybrids evaluated at two north Missouri locations (Barnard and Novelty) during 1993.

Barnard
Planted: 25 May 1993
Harvested: 5 October 1993
Growing Season Rainfall: 53.0 inches
Planted Population: 23200

Novelty
Planted: 19 May 1993
Harvested: 4 October 1993
Growing Season Rainfall: 41.0 inches
Planted Population: 23200

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Barnard	Novelty	Mean	Barnard	Novelty	Mean
Pioneer Hybrid 3394(sx)	2	2.3	1.7	2.0	125.8*	164.2**	145.0**
Lynks 2868(sx)	2	2.3	1.1	1.7	123.8*	155.5*	139.6*
Cargill 7997(sx)	4	2.1	0.5	1.3	128.0*	150.3*	139.2*
Rainbow 3168(sx)	2	1.8	4.2	3.0	130.5**	140.4*	135.4*
Hawkeye Hybrids 7378(sx)	2	1.2	2.3	1.8	118.7*	150.1*	134.4*
Lewis 8492(sx)	3	0.1	1.1	0.6	114.0*	153.1*	133.6*
Wilson 2330(sx)	4	1.1	1.1	1.1	106.7	159.9*	133.3*
Pfister 3965(sx)	2	0.0	2.2	1.1	117.6*	147.8*	132.7*
Ohlde 359(sx)	3	0.1	1.9	1.0	109.6*	153.8*	131.7*
Merschman M-3120(sx)	1	2.2	1.1	1.6	114.5*	147.9*	131.2*
Dekalb DK671(sx)	2	1.3	1.2	1.2	117.4*	145.0*	131.2*
Golden Harvest H-2641(sx)	2	2.3	0.5	1.4	112.3*	148.9*	130.6*
Pioneer Hybrid 3417(sx)	3	0.7	2.8	1.8	119.7*	140.6*	130.2*
Bo-Jac 629(sx)	3	2.0	0.6	1.3	110.2*	150.0*	130.1*
Cargill 7697(sx)	3	3.0	4.8	3.9	114.3*	145.7*	130.0*
Pfister 3600(sx)	2	1.0	2.7	1.8	98.1	160.4*	129.2*
Pioneer Hybrid 3162(sx)	4	2.4	2.3	2.4	113.4*	144.7*	129.0*
Rainbow 2175(sx)	2	0.2	0.0	0.1	104.3	153.6*	129.0*
AgriGene AG7890(sx)	4	3.4	1.7	2.6	104.0	153.5*	128.8*
Pioneer Hybrid 3525(sx)	2	2.6	5.8	4.2	108.3	149.0*	128.6*
Shissler LG 27.05(sx)	2	0.9	1.7	1.3	104.3	152.3*	128.3*
Cargill 8327(sx)	4	1.7	0.6	1.2	111.6*	144.4*	128.0*
Terra - TR 641E(sx)	2	1.8	2.7	2.2	94.4	161.6*	128.0*
MFA 5823(sx)	4	2.3	2.4	2.4	107.5	147.5*	127.5*
Crow's SL70(sx)	2	5.2	4.2	4.7	104.2	150.5*	127.4*
Pioneer Hybrid 3163(sx)	4	0.7	2.3	1.5	104.7	149.6*	127.2*
Fontanelle 6340(sx)	2	0.5	1.8	1.2	93.4	160.7*	127.0*
NC+ 6414(sx)	2	1.4	4.1	2.8	118.3*	135.5	126.9*
Dairyland Stealth-1216(sx)	1	2.2	0.0	1.1	106.4	146.8*	126.6*
Middlekoop 717(sx)	2	1.7	2.2	2.0	104.9	147.8*	126.4*
Golden Harvest Ex.395(sx)	2	2.8	1.2	2.0	112.6*	140.1*	126.4*
Cargill 8177(sx)	4	1.3	2.8	2.0	105.9	145.6*	125.8
Fontanelle 6162(sx)	1	1.8	4.7	3.2	104.7	146.8*	125.8
Merschman M-3115(sx)	1	1.7	4.3	3.0	94.5	155.4*	125.0
Lewis 4503(sx)	1	2.4	2.3	2.4	117.6*	131.8	124.7
Lynks 2812(sx)	2	0.5	3.3	1.9	99.3	150.0*	124.6
Unity Seed US 6293(sx)	2	2.0	0.6	1.3	106.8	141.7*	124.2
Dekalb DK646(sx)	2	1.9	3.4	2.6	114.8*	133.7	124.2
Pioneer Hybrid 3317(sx)	4	2.2	2.3	2.2	107.7	140.4*	124.0
Golden Harvest H-2592(sx)	2	1.9	2.3	2.1	93.8	153.9*	123.8
HyPerformer HS 9843(sx)	3	0.7	1.8	1.2	102.0	145.5*	123.8
Querna 7300(sx)	2	0.4	2.5	1.4	95.2	152.0*	123.6
Lynks 2829(sx)	2	1.9	2.7	2.3	114.2*	133.1	123.6
Pioneer Hybrid 3245(sx)	4	0.5	3.4	2.0	108.3	138.7*	123.5
Middlekoop 718(sx)	2	1.2	3.5	2.4	102.5	143.4*	123.0
Querna 7870(sx)	1	1.9	1.2	1.6	100.8	145.1*	123.0
Northrup King N7768(sx)	4	0.6	3.5	2.0	101.6	144.2*	122.9
ICI 8543(sx)	2	0.5	4.0	2.2	99.7	144.5*	122.1
McAllister 9316(sx)	2	0.5	3.0	1.8	95.2	148.6*	121.9
NeCo A107(sx)	2	2.3	1.1	1.7	109.1*	134.5	121.8
Bo-Jac 925(sx)	3	0.4	1.1	0.8	107.4	136.2	121.8
Growers 4172(sx)	2	2.1	7.9	5.0	99.4	143.5*	121.4
Lewis 5252(sx)	1	0.6	2.2	1.4	111.1*	131.4	121.2
Dyna-Gro 5491-IPro(sx)	3	0.4	1.1	0.8	95.7	146.7*	121.2
Dairyland Stealth-1118(sx)	1	2.8	1.6	2.2	112.5*	129.5	121.0
Unity Seed US 6220(sx)	2	1.3	4.9	3.1	99.3	142.3*	120.8
Fontanelle 6235(spx)	1	1.2	3.3	2.2	99.0	142.7*	120.8
Merschman M-3117(sx)	1	1.1	2.3	1.7	115.3*	125.1	120.2
Asgrow RX897(sx)	1	0.0	1.7	0.8	104.6	135.8	120.2
NC+ 7117(sx)	2	1.2	1.3	1.2	94.8	145.1*	120.0

TABLE 4. Continued.

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Barnard	Novelty	Mean	Barnard	Novelty	Mean
Crow's 668(sx)	2	1.6	2.8	2.2	100.9	139.0*	120.0
Bo-Jac 7195(sx)	2	2.3	1.2	1.8	98.5	141.2*	119.8
AgriGene AG7885(sx)	4	0.6	1.7	1.2	81.6	157.5*	119.6
Lynks 2692(sx)	1	1.8	4.4	3.1	103.4	135.3	119.4
Dairyland Stealth-1115(sx)	1	2.4	5.4	3.9	94.2	144.2*	119.2
Asgrow RX801(sx)	1	2.6	1.9	2.2	103.6	134.3	119.0
Lewis 3945(sx)	1	1.6	2.8	2.2	110.8*	127.1	119.0
Ciba 4581(sx)	2	2.1	5.0	3.6	107.0	130.8	118.9
AgriPro AP 674(sx)	1	3.4	2.2	2.8	103.1	134.7	118.9
Burrus BX74(sx)	3	1.2	4.2	2.7	95.6	142.0*	118.8
Triumph 1270(sx)	1	0.4	4.0	2.2	95.7	142.0*	118.8
Ohlde 510(sx)	3	0.8	1.1	1.0	101.5	135.7	118.6
Bo-Jac 335(sx)	1	0.1	3.2	1.6	102.2	135.1	118.6
Golden Harvest H-2544(sx)	1	3.5	2.6	3.0	106.0	130.9	118.4
Middlekoop 715(sx)	2	0.8	1.7	1.2	99.9	136.5*	118.2
HyPerformer HS 9848(sx)	3	1.4	0.0	0.7	91.6	144.2*	117.9
Triumph 2010(sx)	2	1.3	1.7	1.5	93.9	141.7*	117.8
Crow's 667(sx)	2	2.1	2.3	2.2	92.0	143.2*	117.6
Growers 4202(sx)	1	2.3	4.9	3.6	99.1	136.2	117.6
Golden Harvest H-2530(sx)	1	0.5	1.0	0.8	100.9	134.0	117.4
MFA 5513(sx)	4	1.1	4.7	2.9	97.7	136.6*	117.2
Burrus BX76(sx)	4	1.3	2.1	1.7	89.0	145.4*	117.2
Golden Harvest H-2548(sx)	1	1.6	0.6	1.1	91.0	143.0*	117.0
Ohlde 371(sx)	2	3.0	3.2	3.1	84.7	149.1*	116.9
MFA 3516(sx)	4	1.7	3.2	2.4	93.9	139.7*	116.8
Merschman M-3116(sx)	1	0.7	1.0	0.8	93.9	139.4*	116.6
M/W Genetics G 8700(sx)	1	1.4	2.6	2.0	97.1	135.3	116.2
AgriGene MC7372(sx)	4	0.6	5.2	2.9	97.9	133.8	115.8
NeCo A100(sx)	1	1.6	3.9	2.8	103.4	127.8	115.6
AgriPro AP 670(sx)	1	0.5	1.7	1.1	94.6	136.0	115.3
Dyna-Gro 5470(sx)	2	1.4	3.8	2.6	92.8	137.1*	115.0
NC+ 5963(sx)	2	1.2	3.3	2.2	88.8	141.2*	115.0
Querna 7730(sx)	2	1.2	1.6	1.4	94.1	135.9	115.0
Northrup King N7707(sx)	4	1.5	0.6	1.0	92.8	136.7*	114.8
Asgrow RX899(sx)	1	1.1	2.5	1.8	92.7	136.9*	114.8
M/W Genetics G 8460(sx)	1	0.0	3.7	1.8	97.1	132.4	114.8
Lewis 4983(sx)	1	1.1	2.8	2.0	93.0	135.7	114.4
McAllister 8408(sx)	2	0.0	2.3	1.2	96.2	132.4	114.3
Middlekoop 514(sx)	2	3.1	1.1	2.1	89.8	138.4*	114.1
Golden Harvest Ex.552(sx)	1	0.0	4.4	2.2	94.1	133.9	114.0
Lewis 7288(sx)	3	0.1	1.0	0.6	102.2	125.6	113.9
Ciba 4494(sx)	2	0.0	1.0	0.5	92.4	135.3	113.8
Lynks 2763(sx)	2	0.0	2.9	1.4	91.3	136.1	113.7
HyPerformer HS 9484(sx)	1	3.4	3.2	3.3	99.6	127.5	113.6
Dekalb DK711(sx)	3	3.9	2.8	3.4	97.4	128.9	113.2
Merschman M-1117(sx)	1	1.8	1.6	1.7	94.0	132.0	113.0
Middlekoop 516(sx)	2	1.1	3.9	2.5	100.3	125.1	112.7
HyPerformer HS 9773(sx)	2	0.6	5.1	2.8	95.7	129.5	112.6
Asgrow RX896(sx)	2	0.0	1.1	0.6	101.1	124.0	112.6
Asgrow RX783(sx)	1	1.0	2.8	1.9	93.9	131.0	112.4
Terra - TR 1168(sx)	3	2.4	1.1	1.8	99.8	124.5	112.2
Crow's 510(sx)	1	1.6	1.4	1.5	97.2	126.8	112.0
Merschman M-2121(sx)	1	1.8	2.0	1.9	91.7	132.0	111.8
Stine 1154(sx)	1	0.6	1.7	1.2	102.4	120.9	111.6
ICI N8281(sx)	3	1.6	2.1	1.8	80.4	142.1*	111.2
Golden Harvest H-2525(sx)	1	2.8	1.2	2.0	105.0	116.6	110.8
Middlekoop 452(sx)	2	1.3	2.8	2.0	105.0	115.8	110.4
NeCo A105(sx)	2	1.8	2.1	2.0	85.4	134.8	110.1
NC+ 5037(sx)	2	2.6	1.1	1.8	94.3	125.6	110.0
Ohlde 300(sx)	3	3.6	0.5	2.0	95.7	124.3	110.0
Dyna-Gro 5550(sx)	3	1.7	3.5	2.6	85.8	133.6	109.7
McAllister 9118(sx)	2	0.6	1.8	1.2	77.8	141.5*	109.6
Mycogen 7220(sx)	1	0.5	2.7	1.6	94.4	124.9	109.6
Shissler LG 26.21(sx)	2	2.9	3.2	3.0	96.6	122.2	109.4
Merschman M-2118(sx)	1	2.0	1.1	1.6	92.9	125.3	109.1

TABLE 4. Continued.

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Barnard	Novelty	Mean	Barnard	Novelty	Mean
Stine 1118(sx)	1	0.6	2.1	1.4	91.6	125.9	108.8
Rainbow 2142(sx)	2	1.7	5.9	3.8	89.8	125.8	107.8
Northrup King N6330(sx)	3	2.4	1.6	2.0	90.0	125.3	107.6
HyPerformer HS 9487(sx)	1	1.2	7.1	4.2	102.9	112.4	107.6
Ciba 4651(sx)	2	1.8	1.1	1.4	88.3	126.9	107.6
ICI 8326(sx)	2	1.3	5.1	3.2	84.6	129.4	107.0
Terra - TR 1167(sx)	3	1.3	0.5	0.9	92.1	121.2	106.6
Triumph 1452(sx)	1	2.9	3.8	3.4	100.0	113.2	106.6
HyPerformer HS 9502(sx)	1	3.3	2.4	2.8	88.8	121.6	105.2
Northrup King N6484(sx)	3	3.0	3.9	3.4	94.2	115.7	105.0
Burrus BX64(sx)	3	1.0	1.7	1.4	91.7	118.0	104.8
Wilson E11961(sx)	4	1.7	1.7	1.7	92.4	116.7	104.6
AgriPro AP 638(sx)	1	2.1	3.3	2.7	87.1	121.7	104.4
Shissler LG 25.61(sx)	2	1.8	5.7	3.8	91.3	116.0	103.6
Terra - TR 563E(sx)	4	1.1	4.3	2.7	80.4	125.5	103.0
MFA 4512(sx)	2	0.6	1.7	1.2	100.2	102.6	101.4
Querna 7220(sx)	2	1.2	3.2	2.2	93.5	107.0	100.2
Unity Seed US 6285(sx)	2	3.9	1.1	2.5	85.3	112.6	99.0
Wilson Demand 116(sx)	4	1.2	1.1	1.2	68.3	127.6	98.0
TRIAL AVERAGE		1.5	2.5	2.0	100.1	137.1	118.6
L.S.D. AT .05		NS	3.5	9.3	22.0	27.9	18.7
C.V. %					13.5	12.5	13.9

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
NS Not significant at the .05 level.

TABLE 5. Performance of Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1991-93.

Planted: 27 April 1993
Harvested: 30 September 1993
Planted Population: 23200
Row Spacing: 30 inches
Soil Type: Monona Silt Loam
Soil Test: pH=6.1, OM=2.9%, P=71, K=377

Fertilizer: N=180; P_2O_5=100; K_2O=100
Herbicide: Lariat + Bladex
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Corn

Growing Season Rainfall: Apr.=4.7, May=5.3, June=7.4, July=6.9, Aug.=8.9, TOTAL=33.2"

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	Means 3 Yr.
Merschman M-3116(sx)	1	20400	18.0	6.3	171.6**	--	--	--	--
Dairyland Stealth-1118(sx)	1	19200	19.7	3.3	171.0*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	17900	21.1	23.0	167.0*	--	--	--	--
Stine 1220(sx)	3	16600	19.2	5.9	166.2*	--	--	--	--
Lynks 2868(sx)	2	19700	19.1	20.1	160.5*	--	--	--	--
Lynks 2829(sx)	2	16300	19.4	4.5	159.7*	--	--	--	--
HyPerformer HS 9502(sx)	1	19300	17.2	1.3	158.9*	217.0*	--	188.0	--
Northrup King N7768(sx)	4	18700	18.8	5.0	153.6*	156.0	168.3	154.8	159.3
Hubner H-3515(sx)	2	17500	20.1	4.9	153.3*	195.7*	--	174.5	--
Golden Harvest H-2592(sx)	2	20300	18.3	2.4	152.8*	206.7*	167.6	179.8	175.7
McAllister 9316(sx)	2	19300	17.5	3.8	151.2*	--	--	--	--
JMS Ex.112(sx)	2	19300	19.4	4.5	150.8*	--	--	--	--
ICI 8326(sx)	2	18400	18.2	4.7	149.9*	177.6	177.8	163.8	168.4
Burrus BX87+(sx)	4	16800	19.7	1.5	149.8*	185.1	--	167.5	--
Jacques 8240(sx)	2	19700	19.5	3.7	149.8*	--	--	--	--
Lynks 2812(sx)	2	16900	18.8	3.5	149.6*	--	--	--	--
Hubner H-3915(sx)	2	20400	19.0	3.0	149.5*	--	--	--	--
HyPerformer HS 9848(sx)	3	19000	19.5	2.6	149.4*	--	--	--	--
Northrup King N6330(sx)	3	17900	17.9	1.4	148.6*	180.2	184.3*	164.4	171.0
Asgrow RX897(sx)	1	16500	21.1	9.4	148.5*	--	--	--	--
Middlekoop 717(sx)	2	16100	18.9	13.1	148.0*	--	--	--	--
Cargill 8327(sx)	4	19700	19.0	8.0	147.7*	--	--	--	--
JMS 1161(sx)	2	16700	18.5	8.2	147.5*	180.7	--	164.1	--
Terra - TR 641E(sx)	2	19000	18.6	5.4	147.3*	152.5	--	149.9	--
Golden Harvest H-2544(sx)	1	19800	19.4	6.0	147.2*	208.1*	173.4	177.6	176.2
Dekalb DK646(sx)	2	18600	18.7	4.6	147.1*	188.2	190.1*	167.6	175.1
Golden Harvest H-2641(sx)	2	19100	18.8	6.3	147.1*	190.8	--	169.0	--
Lewis 5995(sx)	2	18500	19.4	4.6	146.9*	--	--	--	--
Terra - TR 1167(sx)	3	20600	19.4	0.6	146.8*	189.1	--	168.0	--
Stine 1179(sx)	2	18700	19.2	0.7	145.8*	--	--	--	--
MFA 6821(sx)	4	19800	21.4	31.2	145.6*	199.1*	--	172.4	--
Fontanelle 6235(spx)	1	16500	18.7	4.8	145.0*	202.6*	--	173.8	--
Lewis 8492(sx)	3	19200	19.3	6.3	144.6*	193.1*	--	168.9	--
JMS 1170(sx)	2	18900	19.3	3.3	144.3*	193.2*	--	168.8	--
Bo-Jac 7195(sx)	2	17700	19.0	2.2	144.2*	171.7	--	158.0	--
Middlekoop 718(sx)	2	17800	19.4	0.0	144.0*	--	--	--	--
Crow's 668(sx)	2	18100	19.2	4.3	143.9*	--	--	--	--
AgriGene AG7720(sx)	4	18000	18.6	3.5	143.9*	--	--	--	--
Bo-Jac 629(sx)	3	17200	19.1	5.0	143.8*	209.6*	--	176.7	--
Golden Harvest H-2530(sx)	1	17000	18.2	3.1	142.7*	--	--	--	--
Dekalb DK671(sx)	2	15900	19.3	8.5	142.4*	179.1	163.4	160.8	161.6
Hubner H-9211(sx)	1	14500	19.4	6.4	141.9*	--	--	--	--
Dekalb DK711(sx)	3	19000	19.6	26.5	141.8*	171.0	188.0*	156.4	166.9
MFA 5823(sx)	4	18300	19.4	9.1	141.8*	--	--	--	--
Lewis 5252(sx)	1	18100	18.7	1.4	141.6*	193.3*	--	167.5	--
McAllister 8408(sx)	2	20100	18.1	2.4	141.3*	201.4*	--	171.4	--
McAllister 9118(sx)	2	17500	19.3	5.2	141.1*	173.8	--	157.5	--
Golden Harvest Ex.395(sx)	2	19700	18.7	1.2	140.6*	--	--	--	--
Burrus BX64(sx)	3	18600	17.0	2.7	140.0	--	--	--	--
Asgrow RX801(sx)	1	19500	18.9	1.2	139.3	--	--	--	--
Ciba 4742(sx)	4	19000	21.2	17.9	139.3	--	--	--	--
Fontanelle 6340(sx)	2	18600	19.2	5.2	139.2	190.0	170.3	164.6	166.5
Crow's 667(sx)	2	18500	20.5	14.1	138.8	194.7*	--	166.8	--
NeCo A105(sx)	2	18700	19.0	3.1	138.2	190.9	--	164.6	--
Merschman M-3120(sx)	1	19600	19.3	6.0	138.0	--	--	--	--
Middlekoop 514(sx)	2	17500	18.3	4.2	137.6	193.7*	--	165.6	--
NeCo A107(sx)	2	18100	19.6	8.3	137.4	--	--	--	--
M/W Genetics SX 8AA(sx)	1	17500	17.6	6.1	137.0	--	--	--	--

TABLE 5. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%)	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	3 Yr.
NeCo A100(sx)	1	19200	17.0	3.1	136.3	197.1*	--	166.7	--
Dyna-Gro 5671(sx)	3	19500	19.2	1.9	136.2	--	167.2	--	--
Northrup King N7989(sx)	4	16900	19.5	3.1	135.7	--	--	--	--
HyPerformer HS 9843(sx)	3	18800	19.6	4.5	134.3	195.5*	--	164.9	--
Golden Harvest H-2525(sx)	1	19700	18.4	1.2	134.0	204.3*	176.4	169.2	171.6
Asgrow RX899(sx)	1	20100	19.8	4.9	133.1	205.1*	171.6	169.1	169.9
MFA 3516(sx)	4	20200	17.6	4.7	132.7	195.5*	176.2	164.1	168.1
M/W Genetics G 8775(sx)	2	18300	19.7	3.9	132.4	--	--	--	--
Middlekoop 715(sx)	2	18000	20.2	0.0	132.2	--	--	--	--
MFA 4512(sx)	2	21100	17.3	2.9	131.7	178.1	183.6*	154.9	164.5
Asgrow RX783(sx)	1	19500	18.9	5.8	130.9	--	--	--	--
Pioneer Hybrid 3245(sx)	4	19600	20.6	8.4	129.7	214.0*	201.7**	171.9	181.8
Lynks 2763(sx)	2	17600	17.8	5.0	129.7	--	--	--	--
Merschman M-2118(sx)	1	19200	17.9	5.8	129.6	212.3*	--	171.0	--
Pioneer Hybrid 3394(sx)	2	17600	18.1	2.2	128.6	197.9*	173.5	163.3	166.7
Terra - TR 563E(sx)	4	17200	20.3	44.5	128.4	--	--	--	--
JMS 1141(sx)	2	18200	18.2	4.4	127.9	173.9	178.8	150.9	160.2
Lewis 6121(sx)	2	18900	20.6	2.2	127.7	--	160.7	--	--
NC+ 5037(sx)	2	18200	18.4	2.7	127.5	212.6*	186.5*	170.1	175.5
Fontanelle 6162(sx)	1	17400	18.2	13.6	127.5	197.4*	--	162.5	--
AgriPro AP 697(sx)	1	17600	21.4	0.7	127.3	--	--	--	--
Middlekoop 516(sx)	2	15400	18.4	5.5	126.4	204.3*	170.8	165.4	167.2
Merschman M-3115(sx)	1	16200	19.0	12.7	125.5	--	--	--	--
Middlekoop 452(sx)	2	17200	18.7	7.2	124.9	184.8	159.7	154.9	156.5
NC+ 7117(sx)	2	17000	19.6	6.0	124.8	--	--	--	--
Pioneer Hybrid 3162(sx)	4	19100	22.6	2.3	123.3	218.5*	183.8*	170.9	175.2
Golden Harvest Ex.552(sx)	1	18000	17.2	4.1	122.9	--	--	--	--
Bo-Jac 925(sx)	3	16600	22.9	2.9	122.7	197.9*	--	160.3	--
Lynks 2692(sx)	1	20300	18.7	9.4	121.8	--	--	--	--
Vigoro V 1182(sx)	4	19400	19.9	3.3	121.6	185.3	--	153.5	--
Dairyland Stealth-1216(sx)	1	18700	19.3	1.2	120.9	--	--	--	--
MFA 5513(sx)	4	19200	19.3	18.7	120.6	--	--	--	--
Golden Harvest H-2548(sx)	1	15600	18.6	4.6	120.3	--	--	--	--
Vigoro V 1194(sx)	4	19200	20.8	2.5	119.9	--	--	--	--
Cargill 7997(sx)	4	17600	20.3	4.3	119.9	204.4*	168.8	162.2	164.4
AgriPro AP 638(sx)	1	19200	19.1	5.7	119.7	198.6*	--	159.2	--
Crow's 510(sx)	1	17700	18.9	0.7	119.0	--	--	--	--
ICI 8543(sx)	2	18400	18.5	2.4	119.0	--	--	--	--
Northrup King N7707(sx)	4	16700	19.3	10.3	118.8	--	--	--	--
Dyna-Gro 5561(sx)	3	17600	18.1	2.2	118.5	--	164.0	--	--
Pioneer Hybrid 3317(sx)	4	17500	19.2	1.6	117.9	209.6*	171.8	163.8	166.4
Burrus BX58(sx)	3	19000	16.6	4.4	117.0	--	--	--	--
Merschman M-2121(sx)	1	19900	18.9	10.1	116.8	--	--	--	--
HyPerformer HS 9773(sx)	2	18200	19.9	47.4	115.8	220.3*	--	168.1	--
Merschman M-3117(sx)	1	18500	19.9	6.3	115.5	--	--	--	--
Dyna-Gro 5550(sx)	3	16400	18.1	2.9	112.7	187.6	176.0	150.2	158.8
Ciba 4494(sx)	2	16700	18.8	2.6	112.2	--	--	--	--
Burrus BX80(sx)	4	18100	19.1	12.7	111.9	--	--	--	--
Bo-Jac 335(sx)	1	19300	17.8	1.8	111.8	--	--	--	--
HyPerformer HS 9487(sx)	1	17700	17.2	8.7	111.0	--	--	--	--
Terra - TR 1168(sx)	3	17300	19.2	0.8	110.2	--	--	--	--
ICI 8272(sx)	3	20700	18.3	3.6	107.9	--	--	--	--
NC+ 6414(sx)	2	19400	20.3	5.8	106.3	198.2*	182.8*	152.3	162.4
Cargill 8177(sx)	4	16800	17.9	4.6	103.4	221.9**	--	162.7	--
Cargill 7697(sx)	3	18100	20.9	1.9	99.7	207.9*	166.2	153.8	157.9
Lewis 5643(sx)	1	19600	19.8	1.7	96.1	--	--	--	--
TRIAL AVERAGE		18341	19.1	6.3	134.8	187.3	171.3	161.1	164.5
L.S.D. AT .05		NS	1.8	11.6	31.2	28.8	22.5		
C.V. %		11.4	5.8		14.2	9.6	8.1		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 6. Performance of Irrigated Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1991-93.

Planted: 30 April 1993
Harvested: 28 September 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Mexico Silt Loam
Soil Test: pH=6.0, OM=0.9%, P=116, K=382

Fertilizer: N=350; P_2O_5=100; K_2O=100
Herbicide: Lariat + Bladex
Insecticide: Lorsban
Irrigation: 5.6 inches
Previous Crop: Soybean

Growing Season Rainfall: Apr.=5.8, May=5.7, June=7.1, July=7.6, Aug.=6.5, TOTAL=32.7"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Cargill 8327(sx)	4	26900	22.5	3.2	201.0**	--	--	--	--
Dekalb DK715(sx)	3	26700	24.0	0.9	198.9*	--	--	--	--
Merschman M-3116(sx)	1	26300	21.2	1.8	198.7*	--	--	--	--
Dekalb DK657(sx)	2	27300	22.1	3.5	198.6*	--	--	--	--
Growers 4172(spx)	2	25400	24.2	7.1	197.6*	226.8	200.0*	212.2	208.1
Dekalb DK646(sx)	2	27100	20.7	1.4	196.8*	237.4*	202.1*	217.1	212.1
Growers 4202(sx)	1	23800	21.3	6.1	196.8*	--	--	--	--
Cargill 8177(sx)	4	25300	22.2	3.1	196.8*	240.9*	--	218.9	--
Merschman M-2118(sx)	1	25700	21.8	1.8	196.7*	219.7	--	208.2	--
Middlekoop 718(sx)	2	26700	22.2	1.0	196.5*	--	--	--	--
Lynks 2812(sx)	2	27300	21.1	4.5	195.2*	--	--	--	--
Golden Harvest Ex.395(sx)	2	26400	22.3	6.9	195.1*	--	--	--	--
Bo-Jac 629(sx)	3	27200	22.4	5.0	194.5*	246.5*	--	220.5	--
Jacques 9220(sx)	3	25800	25.0	15.1	194.2*	--	--	--	--
Merschman M-2121(sx)	1	25600	23.0	3.3	194.1*	248.6*	--	221.4	--
Ciba 4581(sx)	2	25800	23.0	12.5	194.1*	--	--	--	--
Middlekoop 514(sx)	2	26900	21.6	5.9	193.1*	241.0*	--	217.1	--
Merschman M-3120(sx)	1	27200	22.1	4.5	191.9*	--	--	--	--
Dairyland Stealth-1118(sx)	1	25800	21.5	5.4	191.0*	--	--	--	--
Jacques 8240(sx)	2	28600	22.3	3.1	190.8*	--	--	--	--
MFA 5823(sx)	4	25700	23.5	4.6	190.6*	--	--	--	--
AgriPro AP 697(sx)	1	24900	22.7	7.1	190.4*	--	--	--	--
Lewis 8492(sx)	3	25300	21.7	3.4	189.7*	--	--	--	--
Dairyland Stealth-1115(sx)	1	26900	22.9	2.7	189.4*	--	--	--	--
Terra - TR 641E(sx)	2	25000	22.8	2.5	189.0*	224.3	--	206.7	--
AgriPro AP 674(sx)	1	25900	22.1	3.7	188.6*	--	--	--	--
HyPerformer HS 9822(sx)	3	26400	22.6	2.7	188.6*	--	--	--	--
MFA 3516(sx)	4	25200	21.3	2.4	187.8*	216.6	197.8	202.2	200.7
Wilson E11961(sx)	4	26500	24.0	10.8	187.7*	--	--	--	--
Asgrow RX899(sx)	1	26500	22.5	4.7	187.5*	250.4*	217.6*	219.0	218.5
Merschman M-3117(sx)	1	25200	23.1	3.4	187.4*	--	--	--	--
HyPerformer HS 9843(sx)	3	27000	23.2	4.5	187.2*	234.6	--	210.9	--
Wilson 2330(sx)	4	26800	25.6	9.6	186.0*	236.8*	196.7	211.4	206.5
Pioneer Hybrid 3163(sx)	4	25700	22.0	4.7	185.8*	--	--	--	--
Golden Harvest H-2548(sx)	1	27300	22.3	3.1	185.5*	--	--	--	--
M/W Genetics G 8445(sx)	1	24500	21.8	2.9	184.4*	--	--	--	--
Lynks 2868(sx)	2	26000	22.3	11.2	183.9*	259.7*	--	221.8	--
Asgrow RX783(sx)	1	26600	20.9	3.5	183.5*	--	--	--	--
Triumph 2010(sx)	2	26500	22.1	4.0	183.0*	250.3*	--	216.7	--
Asgrow RX801(sx)	1	26900	21.9	0.0	182.8*	--	--	--	--
Golden Harvest H-2544(sx)	1	26600	21.3	1.4	181.9*	232.0	188.0	207.0	200.6
Middlekoop 715(sx)	2	27800	20.3	2.1	181.8*	--	--	--	--
Crow's 510(sx)	1	26700	21.2	2.3	180.8	--	--	--	--
Cargill 7897(sx)	4	26000	20.9	5.2	180.5	--	--	--	--
Terra - TR 1167(sx)	3	26400	22.0	1.8	179.1	248.9*	--	214.0	--
Crow's 667(sx)	2	27100	22.3	1.8	178.9	234.9	--	206.9	--
Triumph 1270(sx)	1	26000	20.1	1.4	178.2	231.0	192.6	204.6	200.6
Northrup King N7989(sx)	4	25800	22.9	7.1	177.8	--	--	--	--
ICI 8326(sx)	2	26300	20.5	1.8	177.6	--	--	--	--
AgriPro AP 808(sx)	4	26300	27.7	3.7	177.5	--	--	--	--
Dyna-Gro 5561(sx)	3	26400	21.8	2.7	177.3	217.3	--	197.3	--
Vigoro V 1182(sx)	4	25600	22.2	3.4	177.0	--	--	--	--
Golden Harvest H-2525(sx)	1	25400	20.7	1.3	176.7	220.8	218.9*	198.8	205.5
M/W Genetics G 8700(sx)	1	25600	21.6	7.6	175.9	--	--	--	--
MFA 5513(sx)	4	25100	23.3	1.8	175.9	--	--	--	--
HyPerformer HS 9848(sx)	3	26900	22.3	4.5	175.5	--	--	--	--
Northrup King N7707(sx)	4	26300	21.9	1.5	175.4	--	--	--	--
Bo-Jac 7195(sx)	2	25200	23.2	4.5	175.3	225.7	--	200.5	--

TABLE 6. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
			1993		1993	1992	1991	2 Yr.	3 Yr.
Cargill 7997(sx)	4	26500	23.1	0.9	174.2	244.9*	196.7	209.6	205.3
HyPerformer HS 9610(sx)	2	25400	21.7	4.2	173.4	--	--	--	--
Wilson Demand 116(sx)	4	26100	23.2	6.5	172.8	--	--	--	--
ICI 8272(sx)	3	26900	22.4	3.6	172.7	235.2	--	204.0	--
Bo-Jac 925(sx)	3	26200	22.7	0.0	172.6	228.0	--	200.3	--
HyPerformer HS 9487(sx)	1	25600	21.1	3.8	172.5	--	--	--	--
Stine 1179(sx)	2	27400	22.8	4.0	171.7	--	--	--	--
Dairyland Stealth-1216(sx)	1	26700	22.8	0.4	171.1	--	--	--	--
Lynks 2829(sx)	2	26200	22.6	5.1	170.3	245.0*	199.9*	207.7	205.1
Dyna-Gro 5671(sx)	3	25600	22.9	3.3	169.6	226.3	--	198.0	--
Lynks 2692(sx)	1	25100	20.2	3.4	169.3	--	--	--	--
Merschman M-3115(sx)	1	26400	23.1	0.9	168.9	--	--	--	--
Middlekoop 717(sx)	2	27400	22.3	5.0	168.5	--	--	--	--
MFA 4512(sx)	2	26800	20.7	1.3	168.4	232.1	205.5*	200.3	202.0
Golden Harvest Ex.552(sx)	1	28100	20.9	3.9	168.3	--	--	--	--
Pioneer Hybrid 3245(sx)	4	27700	20.5	3.9	168.1	249.6*	220.0**	208.9	212.6
Crow's 668(sx)	2	25500	21.6	3.4	167.4	--	--	--	--
Pioneer Hybrid 3317(sx)	4	25700	21.8	1.9	167.1	244.9*	186.2	206.0	199.4
Northrup King N6330(sx)	3	26500	20.2	1.9	166.8	221.4	205.0*	194.1	197.7
Northrup King N6484(sx)	3	24900	20.6	0.5	165.5	--	--	--	--
Asgrow RX775(sx)	1	25500	21.4	6.2	164.4	--	--	--	--
Terra - TR 700E(sx)	3	27000	24.6	4.9	164.4	--	--	--	--
Stine 1123(sx)	1	26600	20.1	2.3	164.4	--	--	--	--
Pioneer Hybrid 3162(sx)	4	24000	22.7	4.1	163.5	260.3**	208.3*	211.9	210.7
MFA 6821(sx)	4	25200	23.5	30.4	160.5	230.9	--	195.7	--
Lewis 5643(sx)	1	25100	22.4	4.8	160.2	--	--	--	--
Pioneer Hybrid 3394(sx)	2	26400	22.9	2.9	159.9	230.1	202.8*	195.0	197.6
Cargill 7697(sx)	3	26100	24.4	1.9	158.5	237.5*	179.3	198.0	191.8
Terra - E1168(sx)	3	26400	22.9	4.9	156.0	--	--	--	--
Bo-Jac 386(sx)	1	25000	21.4	1.9	152.5	--	--	--	--
Terra - TR 1145(sx)	2	25400	22.6	1.5	152.5	239.3*	--	195.9	--
Terra - TR 563E(sx)	4	26400	24.5	16.0	144.6	--	--	--	--
TRIAL AVERAGE		26177	22.3	4.3	179.5	232.9	196.2	206.2	202.9
L.S.D. AT .05		NS	1.5	5.3	19.6	24.2	20.7		
C.V. %		6.2	4.1		6.7	6.4	6.5		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 7. Performance of Corn Hybrids evaluated near Laddonia (Audrain County) on the Freyer Farms during 1991-93.

Planted: 26 May 1993
Harvested: 29 September 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Mexico Silt Loam
Soil Test: pH=6.8, OM=2.5%, P=192, K=426

Fertilizer: N=250; P_2O_5=0; K_2O=0
Herbicide: Sutan Plus + Atrazine
Insecticide: Lorsban
Irrigation: 2.00 inches
Previous Crop: Soybean

Growing Season Rainfall: May=3.6, June=4.3, July=11.0, Aug.=5.2, Sept.=17.9, TOTAL=42.0"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Cargill 7697(sx)	3	28400	27.2	7.5	168.5**	245.2	204.4	206.9	206.0
Asgrow RX801(sx)	1	27400	24.9	2.1	167.3*	--	--	--	--
Middlekoop 718(sx)	2	25500	27.3	5.4	165.1*	--	--	--	--
Dairyland Stealth-1115(sx)	1	25300	26.4	6.0	163.6*	--	--	--	--
Jacques 8240(sx)	2	26300	26.4	3.2	162.1*	--	--	--	--
Cargill 7997(sx)	4	28000	26.5	2.0	162.0*	259.8*	236.2**	210.9	219.3
Dairyland Stealth-1118(sx)	1	27600	27.1	1.6	161.9*	--	--	--	--
Pioneer Hybrid 3394(sx)	2	28600	23.0	6.5	161.8*	267.1*	225.7*	214.5	218.2
Terra - TR 700E(sx)	3	28200	30.0	16.2	161.3*	--	--	--	--
Dekalb DK715(sx)	3	25300	29.0	8.8	160.6*	--	--	--	--
MFA 5823(sx)	4	28400	26.1	9.2	160.5*	--	--	--	--
Cargill 8327(sx)	4	26300	25.9	2.5	159.8*	--	--	--	--
M/W Genetics G 8445(sx)	1	27000	25.2	3.4	159.1*	--	--	--	--
Merschman M-3115(sx)	1	25400	25.1	3.2	158.9*	--	--	--	--
Jacques 9220(sx)	3	25200	30.0	24.7	158.4*	--	--	--	--
Bo-Jac 386(sx)	1	26400	20.8	1.1	157.6*	--	--	--	--
Merschman M-2118(sx)	1	26000	27.3	7.3	157.3*	249.6*	--	203.5	--
Northrup King N7989(sx)	4	26800	26.0	3.4	155.7*	--	--	--	--
Merschman M-3117(sx)	1	26500	26.8	8.8	155.5*	--	--	--	--
Dekalb DK646(sx)	2	25100	24.7	5.2	155.5*	254.6*	203.5	205.1	204.5
Terra - TR 641E(sx)	2	25200	26.1	5.7	155.1*	241.4	--	198.3	--
AgriPro AP 674(sx)	1	24700	27.2	12.5	153.9*	--	--	--	--
Bo-Jac 925(sx)	3	26600	26.7	1.8	152.2*	250.0*	--	201.1	--
Terra - TR 1167(sx)	3	25100	27.0	7.6	152.0*	250.8*	--	201.4	--
Crow's 668(sx)	2	26200	26.9	4.2	151.9*	--	--	--	--
Bo-Jac 629(sx)	3	26400	26.8	4.3	151.7*	255.4*	--	203.6	--
Asgrow RX899(sx)	1	26300	25.9	5.9	151.6*	263.1*	225.6*	207.4	213.4
Ciba 4581(sx)	2	27100	26.6	3.9	151.5*	--	--	--	--
Cargill 8177(sx)	4	26700	26.9	6.2	150.5*	256.8*	--	203.7	--
Crow's 667(sx)	2	24000	29.3	6.0	150.1*	235.5	--	192.8	--
HyPerformer HS 9822(sx)	3	27200	27.4	18.7	149.8*	--	--	--	--
Wilson 2330(sx)	4	27500	30.4	3.1	149.5*	225.2	214.6	187.4	196.4
Pioneer Hybrid 3245(sx)	4	25200	24.2	2.9	149.4*	266.7*	219.8*	208.1	212.0
HyPerformer HS 9848(sx)	3	26800	26.0	7.2	148.8*	--	--	--	--
Pioneer Hybrid 3317(sx)	4	25800	24.3	6.6	147.2*	248.5*	211.5	197.9	202.4
Lynks 2868(sx)	2	26000	26.4	2.8	147.1*	259.0*	--	203.1	--
Growers 4172(spx)	2	27200	29.7	26.2	147.1*	248.8*	203.8	198.0	199.9
Merschman M-3120(sx)	1	27500	27.0	3.2	147.1*	--	--	--	--
HyPerformer HS 9843(sx)	3	25700	26.9	2.4	146.4*	268.1**	--	207.3	--
ICI 8326(sx)	2	24600	25.2	4.5	146.0*	--	--	--	--
Cargill 7897(sx)	4	26900	25.0	4.8	145.4*	--	--	--	--
M/W Genetics G 8700(sx)	1	25100	26.8	4.3	145.3*	--	--	--	--
Wilson E11961(sx)	4	25200	29.5	6.4	145.0*	--	--	--	--
Triumph 2010(sx)	2	24800	26.7	5.4	145.0*	264.1*	--	204.6	--
Northrup King N7707(sx)	4	24300	25.7	4.8	144.9*	--	--	--	--
Dyna-Gro 5561(sx)	3	25900	24.6	4.4	144.9*	249.6*	--	197.3	--
Middlekoop 715(sx)	2	26700	22.7	4.0	144.5*	--	--	--	--
Lynks 2829(sx)	2	26400	27.1	4.1	144.5*	251.6*	226.2*	198.1	207.4
Lewis 8492(sx)	3	25600	26.2	4.9	144.5*	--	--	--	--
MFA 5513(sx)	4	26300	28.4	3.4	144.0	--	--	--	--
Merschman M-3116(sx)	1	27000	26.6	1.9	143.4	--	--	--	--
Lewis 5643(sx)	1	26400	24.4	4.7	143.3	--	--	--	--
Vigoro V 1182(sx)	4	26500	25.9	1.9	142.8	--	--	--	--
Dairyland Stealth-1216(sx)	1	26300	26.7	5.0	141.9	--	--	--	--
Asgrow RX783(sx)	1	23700	24.0	4.5	141.4	--	--	--	--
AgriPro AP 808(sx)	4	27300	30.7	16.2	141.3	--	--	--	--
Middlekoop 717(sx)	2	25400	25.2	3.8	140.5	--	--	--	--
Golden Harvest H-2544(sx)	1	25600	25.5	2.6	140.2	264.8*	218.1*	202.5	207.7
AgriPro AP 697(sx)	1	26600	26.5	4.1	139.8	--	--	--	--

TABLE 7. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
			1993		1993	1992	1991	2 Yr.	3 Yr.
Pioneer Hybrid 3163(sx)	4	25900	28.2	8.3	139.8	--	--	--	--
MFA 3516(sx)	4	28100	25.1	5.6	139.3	259.4*	224.0*	199.4	207.6
Merschman M-2121(sx)	1	27000	26.2	10.8	138.8	259.3*	--	199.1	--
Middlekoop 514(sx)	2	25900	25.5	1.5	138.4	230.0	--	184.2	--
Northrup King N6330(sx)	3	25700	22.6	7.8	137.9	243.0	210.1	190.5	197.0
Stine 1179(sx)	2	25500	26.9	5.1	137.4	--	--	--	--
HyPerformer HS 9610(sx)	2	27300	23.9	7.7	135.8	--	--	--	--
Dyna-Gro 5671(sx)	3	25200	29.4	4.5	134.9	235.5	--	185.2	--
Golden Harvest H-2525(sx)	1	29000	23.4	4.3	134.8	239.0	219.7*	186.9	197.8
Crow's 510(sx)	1	25300	25.4	4.2	134.3	--	--	--	--
Terra - E1168(sx)	3	25200	27.2	3.4	134.2	--	--	--	--
HyPerformer HS 9487(sx)	1	26500	22.0	23.5	133.7	--	--	--	--
Stine 1123(sx)	1	27000	22.7	21.6	133.4	--	--	--	--
Lynks 2812(sx)	2	26300	26.5	13.3	133.3	--	--	--	--
Golden Harvest Ex.552(sx)	1	25000	22.3	22.6	133.1	--	--	--	--
Pioneer Hybrid 3162(sx)	4	26300	29.4	3.1	132.8	263.6*	207.4	198.2	201.3
Dekalb DK657(sx)	2	25600	26.9	14.3	132.7	--	--	--	--
Golden Harvest H-2548(sx)	1	27600	25.4	4.5	132.5	--	--	--	--
Growers 4202(sx)	1	26500	26.7	9.5	132.0	--	--	--	--
Triumph 1270(sx)	1	25500	23.9	7.0	131.9	238.0	208.1	185.0	192.7
MFA 4512(sx)	2	27300	23.3	5.8	130.6	217.3	211.4	174.0	186.4
Asgrow RX775(sx)	1	25900	21.3	45.8	129.8	--	--	--	--
Golden Harvest Ex.395(sx)	2	25700	27.8	3.1	129.6	--	--	--	--
Terra - TR 1145(sx)	2	27400	24.7	2.2	128.6	243.3	--	186.0	--
Bo-Jac 7195(sx)	2	24800	26.7	1.1	124.5	257.2*	--	190.9	--
Wilson Demand 116(sx)	4	25300	29.4	0.5	120.7	--	--	--	--
ICI 8272(sx)	3	27200	24.4	4.8	119.1	247.6	--	183.4	--
Northrup King N6484(sx)	3	26200	21.5	36.7	113.3	--	--	--	--
MFA 6821(sx)	4	26700	28.9	39.1	111.3	216.6	--	164.0	--
Terra - TR 563E(sx)	4	27000	28.7	46.3	109.1	--	--	--	--
Lynks 2692(sx)	1	26900	21.2	19.1	108.9	--	--	--	--
TRIAL AVERAGE		26270	26.1	8.2	144.0	244.7	211.1	194.4	199.9
L.S.D. AT .05		NS	2.0	11.2	24.1	20.0	19.2		
C.V. %		6.6	4.7		10.3	5.1	5.6		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 8. Performance record of Irrigated Corn Hybrids evaluated at two central Missouri locations (Columbia and Laddonia) during 1993.

Columbia
Planted: 30 April 1993
Harvested: 28 September 1993
Growing Season Rainfall: 32.7 inches
Irrigation: 5.6 inches

Laddonia
Planted: 26 May 1993
Harvested: 29 September 1993
Growing Season Rainfall: 42.0 inches
Irrigation: 2.00 inches

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Laddonia	Mean	Columbia	Laddonia	Mean
Middlekoop 718(sx)	2	1.0	5.4	3.2	196.5*	165.1*	180.8**
Cargill 8327(sx)	4	3.2	2.5	2.8	201.0**	159.8*	180.4*
Dekalb DK715(sx)	3	0.9	8.8	4.8	198.9*	160.6*	179.8*
Merschman M-2118(sx)	1	1.8	7.3	4.6	196.7*	157.3*	177.0*
Dairyland Stealth-1115(sx)	1	2.7	6.0	4.4	189.4*	163.6*	176.5*
Jacques 8240(sx)	2	3.1	3.2	3.2	190.8*	162.1*	176.4*
Dairyland Stealth-1118(sx)	1	5.4	1.6	3.5	191.0*	161.9*	176.4*
Jacques 9220(sx)	3	15.1	24.7	19.9	194.2*	158.4*	176.3*
Dekalb DK646(sx)	2	1.4	5.2	3.3	196.8*	155.5*	176.2*
MFA 5823(sx)	4	4.6	9.2	6.9	190.6*	160.5*	175.6*
Asgrow RX801(sx)	1	0.0	2.1	1.0	182.8*	167.3*	175.0*
Cargill 8177(sx)	4	3.1	6.2	4.6	196.8*	150.5*	173.6*
Bo-Jac 629(sx)	3	5.0	4.3	4.6	194.5*	151.7*	173.1*
Ciba 4581(sx)	2	12.5	3.9	8.2	194.1*	151.5*	172.8*
Growers 4172(spx)	2	7.1	26.2	16.6	197.6*	147.1*	172.4*
Terra - TR 641E(sx)	2	2.5	5.7	4.1	189.0*	155.1*	172.0*
M/W Genetics G 8445(sx)	1	2.9	3.4	3.2	184.4*	159.1*	171.8*
Merschman M-3117(sx)	1	3.4	8.8	6.1	187.4*	155.5*	171.4*
AgriPro AP 674(sx)	1	3.7	12.5	8.1	188.6*	153.9*	171.2*
Merschman M-3116(sx)	1	1.8	1.9	1.8	198.7*	143.4	171.0*
Asgrow RX899(sx)	1	4.7	5.9	5.3	187.5*	151.6*	169.6*
Merschman M-3120(sx)	1	4.5	3.2	3.8	191.9*	147.1*	169.5*
HyPerformer HS 9822(sx)	3	2.7	18.7	10.7	188.6*	149.8*	169.2*
Cargill 7997(sx)	4	0.9	2.0	1.4	174.2	162.0*	168.1*
Wilson 2330(sx)	4	9.6	3.1	6.4	186.0*	149.5*	167.8*
Lewis 8492(sx)	3	3.4	4.9	4.2	189.7*	144.5*	167.1*
Northrup King N7989(sx)	4	7.1	3.4	5.2	177.8	155.7*	166.8*
HyPerformer HS 9843(sx)	3	4.5	2.4	3.4	187.2*	146.4*	166.8*
Wilson E11961(sx)	4	10.8	6.4	8.6	187.7*	145.0*	166.4*
Merschman M-2121(sx)	1	3.3	10.8	7.0	194.1*	138.8	166.4*
Middlekoop 514(sx)	2	5.9	1.5	3.7	193.1*	138.4	165.8*
Terra - TR 1167(sx)	3	1.8	7.6	4.7	179.1	152.0*	165.6*
Dekalb DK657(sx)	2	3.5	14.3	8.9	198.6*	132.7	165.6*
Lynks 2868(sx)	2	11.2	2.8	7.0	183.9*	147.1*	165.5*
AgriPro AP 697(sx)	1	7.1	4.1	5.6	190.4*	139.8	165.1*
Crow's 667(sx)	2	1.8	6.0	3.9	178.9	150.1*	164.5*
Growers 4202(sx)	1	6.1	9.5	7.8	196.8*	132.0	164.4*
Lynks 2812(sx)	2	4.5	13.3	8.9	195.2*	133.3	164.2*
Triumph 2010(sx)	2	4.0	5.4	4.7	183.0*	145.0*	164.0*
Merschman M-3115(sx)	1	0.9	3.2	2.0	168.9	158.9*	163.9*
MFA 3516(sx)	4	2.4	5.6	4.0	187.8*	139.3	163.6
Cargill 7697(sx)	3	1.9	7.5	4.7	158.5	168.5**	163.5
Middlekoop 715(sx)	2	2.1	4.0	3.0	181.8*	144.5*	163.2
Cargill 7897(sx)	4	5.2	4.8	5.0	180.5	145.4*	163.0
Terra - TR 700E(sx)	3	4.9	16.2	10.6	164.4	161.3*	162.8
Pioneer Hybrid 3163(sx)	4	4.7	8.3	6.5	185.8*	139.8	162.8
Asgrow RX783(sx)	1	3.5	4.5	4.0	183.5*	141.4	162.4
Golden Harvest Ex.395(sx)	2	6.9	3.1	5.0	195.1*	129.6	162.4
Bo-Jac 925(sx)	3	0.0	1.8	0.9	172.6	152.2*	162.4
HyPerformer HS 9848(sx)	3	4.5	7.2	5.8	175.5	148.8*	162.2
ICI 8326(sx)	2	1.8	4.5	3.2	177.6	146.0*	161.8
Dyna-Gro 5561(sx)	3	2.7	4.4	3.6	177.3	144.9*	161.1
Golden Harvest H-2544(sx)	1	1.4	2.6	2.0	181.9*	140.2	161.0
Pioneer Hybrid 3394(sx)	2	2.9	6.5	4.7	159.9	161.8*	160.8
M/W Genetics G 8700(sx)	1	7.6	4.3	6.0	175.9	145.3*	160.6
Northrup King N7707(sx)	4	1.5	4.8	3.2	175.4	144.9*	160.2
MFA 5513(sx)	4	1.8	3.4	2.6	175.9	144.0	160.0
Vigoro V 1182(sx)	4	3.4	1.9	2.6	177.0	142.8	159.9
Crow's 668(sx)	2	3.4	4.2	3.8	167.4	151.9*	159.6
AgriPro AP 808(sx)	4	3.7	16.2	10.0	177.5	141.3	159.4

TABLE 8. Continued.

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Laddonia	Mean	Columbia	Laddonia	Mean
Golden Harvest H-2548(sx)	1	3.1	4.5	3.8	185.5*	132.5	159.0
Pioneer Hybrid 3245(sx)	4	3.9	2.9	3.4	168.1	149.4*	158.8
Crow's 510(sx)	1	2.3	4.2	3.2	180.8	134.3	157.6
Lynks 2829(sx)	2	5.1	4.1	4.6	170.3	144.5*	157.4
Pioneer Hybrid 3317(sx)	4	1.9	6.6	4.2	167.1	147.2*	157.2
Dairyland Stealth-1216(sx)	1	0.4	5.0	2.7	171.1	141.9	156.5
Golden Harvest H-2525(sx)	1	1.3	4.3	2.8	176.7	134.8	155.8
Triumph 1270(sx)	1	1.4	7.0	4.2	178.2	131.9	155.0
Bo-Jac 386(sx)	1	1.9	1.1	1.5	152.5	157.6*	155.0
Stine 1179(sx)	2	4.0	5.1	4.6	171.7	137.4	154.6
HyPerformer HS 9610(sx)	2	4.2	7.7	6.0	173.4	135.8	154.6
Middlekoop 717(sx)	2	5.0	3.8	4.4	168.5	140.5	154.5
HyPerformer HS 9487(sx)	1	3.8	23.5	13.6	172.5	133.7	153.1
Northrup King N6330(sx)	3	1.9	7.8	4.8	166.8	137.9	152.4
Dyna-Gro 5671(sx)	3	3.3	4.5	3.9	169.6	134.9	152.2
Lewis 5643(sx)	1	4.8	4.7	4.8	160.2	143.3	151.8
Golden Harvest Ex.552(sx)	1	3.9	22.6	13.2	168.3	133.1	150.7
Bo-Jac 7195(sx)	2	4.5	1.1	2.8	175.3	124.5	149.9
MFA 4512(sx)	2	1.3	5.8	3.6	168.4	130.6	149.5
Stine 1123(sx)	1	2.3	21.6	12.0	164.4	133.4	148.9
Pioneer Hybrid 3162(sx)	4	4.1	3.1	3.6	163.5	132.8	148.2
Asgrow RX775(sx)	1	6.2	45.8	26.0	164.4	129.8	147.1
Wilson Demand 116(sx)	4	6.5	0.5	3.5	172.8	120.7	146.8
ICI 8272(sx)	3	3.6	4.8	4.2	172.7	119.1	145.9
Terra - E1168(sx)	3	4.9	3.4	4.2	156.0	134.2	145.1
Terra - TR 1145(sx)	2	1.5	2.2	1.8	152.5	128.6	140.6
Northrup King N6484(sx)	3	0.5	36.7	18.6	165.5	113.3	139.4
Lynks 2692(sx)	1	3.4	19.1	11.2	169.3	108.9	139.1
MFA 6821(sx)	4	30.4	39.1	34.8	160.5	111.3	135.9
Terra - TR 563E(sx)	4	16.0	46.3	31.2	144.6	109.1	126.8
TRIAL AVERAGE		4.3	8.2	6.3	179.5	144.0	161.8
L.S.D. AT .05		5.3	11.2	2.1	19.6	24.1	17.0
C.V. %					6.7	10.3	9.3

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

TABLE 9. Performance of Irrigated Corn Hybrids evaluated near Nevada (Vernon County) on the Robert Cubbage Farm during 1991-93.

Planted: 27 May 1993
Harvested: 7 October 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Parsons Silt Loam
Soil Test: pH=5.4, OM=2.5%, P=53, K=228

Fertilizer: N=240; P_2O_5=100; K_2O=100
Herbicide: Dual + Extrazine
Insecticide: Lorsban
Irrigation: 2.00 inches
Previous Crop: Soybean

Growing Season Rainfall: May=10.0, June=7.5, July=16.8, Aug.=1.8, Sept.=17.0, TOTAL=53.1"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
			1993		1993	1992	1991	2 Yr.	3 Yr.
Cargill 7697(sx)	3	25800	19.7	0.0	127.2**	219.4*	78.6	173.3	141.7
Cargill 7997(sx)	4	24000	20.1	5.9	125.0*	225.0*	104.0	175.0	151.3
Golden Acres T-E 7070(sx)	2	25700	20.1	0.0	121.5*	217.9	--	169.7	--
MFA 5513(sx)	4	25900	20.4	0.0	120.5*	--	--	--	--
Terra - TR 702E(sx)	4	24700	22.3	0.0	120.5*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	23500	22.5	0.0	119.8*	--	--	--	--
Dekalb DK646(sx)	2	24900	19.7	0.5	118.7*	219.6*	93.0	169.2	143.8
Lynks 2812(sx)	2	22500	21.8	0.0	116.0*	--	--	--	--
Pioneer Hybrid 3394(sx)	2	25900	18.0	0.5	115.9*	222.1*	111.5	169.0	149.8
Northrup King N7707(sx)	4	23500	20.2	0.5	115.9*	--	--	--	--
Ciba 4742(sx)	4	24200	22.7	1.0	114.7*	--	--	--	--
Dyna-Gro 5561(sx)	3	24800	20.1	0.0	114.3*	--	--	--	--
Dekalb DK671(sx)	2	21800	21.7	0.5	113.8*	218.8	87.5	166.3	140.0
HyPerformer HS 9822(sx)	3	25100	21.5	1.4	113.7*	--	--	--	--
Northrup King N7768(sx)	4	25500	22.1	0.9	113.2*	222.9*	87.0	168.1	141.0
Terra - TR 641E(sx)	2	24100	21.7	0.5	112.5*	214.3	--	163.4	--
Golden Harvest H-2544(sx)	1	26300	18.3	0.5	111.3*	209.4	--	160.4	--
Northrup King N6330(sx)	3	25400	18.7	2.8	110.7*	218.2	79.8	164.5	136.2
Bo-Jac 7195(sx)	2	26200	19.9	0.0	110.4*	238.7**	--	174.6	--
HyPerformer HS 9610(sx)	2	20700	18.5	0.6	109.3*	--	--	--	--
Pioneer Hybrid 3162(sx)	4	25400	21.5	0.5	109.2*	238.4*	104.2	173.8	150.6
Lynks 2829(sx)	2	25800	19.2	1.0	109.2*	--	--	--	--
Terra - TR 1145(sx)	2	25600	19.5	1.0	108.8*	219.4*	--	164.1	--
Merschman M-2121(sx)	1	27000	20.2	0.0	108.8*	222.0*	--	165.4	--
Stine 1179(sx)	2	23900	21.2	0.0	108.4*	--	--	--	--
MFA 5823(sx)	4	26800	19.8	0.0	108.1*	--	--	--	--
Golden Acres T-E 7065(sx)	2	24000	20.3	2.9	107.7*	--	--	--	--
Dyna-Gro 5671(sx)	3	21500	20.7	0.0	106.5*	--	--	--	--
Bo-Jac 925(sx)	3	25700	20.2	0.0	106.3*	227.0*	--	166.7	--
Golden Harvest H-2530(sx)	1	24900	19.0	0.5	106.3*	--	--	--	--
Golden Harvest H-2592(sx)	2	24200	22.2	0.0	106.1*	211.5	115.2**	158.8	144.3
Oro 166(sx)	1	25700	20.7	0.9	105.6*	--	--	--	--
Terra - TR 700E(sx)	3	22700	22.3	6.9	104.7*	--	--	--	--
MFA 3516(sx)	4	26000	19.1	0.0	103.9*	211.3	100.9	157.6	138.7
Golden Acres T-E 9586(sx)	3	24100	21.5	6.9	103.9*	223.6*	--	163.8	--
Oro 188(sx)	2	24000	23.0	3.5	103.3*	220.9*	104.4	162.1	142.9
Cargill 8177(sx)	4	26500	21.0	0.5	102.9*	216.8	--	159.9	--
Northrup King N7989(sx)	4	26400	20.4	0.5	102.9*	--	--	--	--
Dekalb DK715(sx)	3	25100	21.6	0.5	101.7	--	--	--	--
Bo-Jac 386(sx)	1	23200	16.5	0.0	101.1	--	--	--	--
Cargill 8327(sx)	4	25600	21.6	0.0	99.7	--	--	--	--
Lynks 2868(sx)	2	24800	22.2	1.5	99.4	--	--	--	--
ICI 8272(sx)	3	23200	19.5	1.0	98.8	--	--	--	--
Stine 1195(sx)	3	23800	23.2	0.0	98.6	--	--	--	--
MFA 4512(sx)	2	26000	19.7	0.5	98.2	212.3	92.8	155.3	134.4
Ciba 4581(sx)	2	25100	20.6	0.0	96.6	--	--	--	--
Golden Harvest H-2525(sx)	1	22700	18.5	0.5	96.2	223.2*	101.3	159.7	140.2
Triumph 1270(sx)	1	23800	19.5	0.5	94.9	200.6	93.9	147.8	129.8
NC+ 7304(sx)	2	25700	20.3	1.4	94.9	225.0*	105.2	160.0	141.7
HyPerformer HS 9848(sx)	3	21800	20.9	0.0	94.7	--	--	--	--
Terra - TR 1167(sx)	3	27300	20.3	1.3	94.1	222.3*	--	158.2	--
MFA 6821(sx)	4	24600	22.1	1.3	94.0	178.9	--	136.5	--
Triumph 2010(sx)	2	25700	21.2	1.8	92.3	216.0	--	154.2	--
Bo-Jac 629(sx)	3	24900	22.3	0.0	90.3	221.2*	--	155.8	--
Pioneer Hybrid 3317(sx)	4	23400	20.4	0.5	89.1	210.1	107.2	149.6	135.5
NC+ 7117(sx)	2	27000	19.8	0.0	88.5	--	--	--	--
NC+ 5037(sx)	2	26600	18.9	0.5	87.1	--	--	--	--
HyPerformer HS 9843(sx)	3	25900	20.9	0.4	86.8	--	--	--	--

TABLE 9. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
			1993		1993	1992	1991	2 Yr.	3 Yr.
Terra - E1168(sx)	3	24800	20.0	0.0	86.0	--	--	--	--
Asgrow RX899(sx)	1	24700	20.6	0.5	84.2	223.5*	109.6	153.9	139.1
Pioneer Hybrid 3245(sx)	4	25000	19.0	0.0	84.1	227.3*	97.6	155.7	136.3
Golden Harvest H-2641(sx)	2	26500	22.1	0.9	74.8	213.8	--	144.3	--
TRIAL AVERAGE		24805	20.5	0.9	104.3	216.6	98.2	160.5	139.7
L.S.D. AT .05		2665	1.8	2.7	25.0	19.7	NS		
C.V. %		6.6	5.3		14.6	5.6	17.3		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 10. Performance of Irrigated Corn Hybrids evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1991-93.

Planted: 27 May 1993
Harvested: 1 October 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Parsons Silt Loam
Soil Test: pH=6.8, OM=2.1%, P=103, K=303

Fertilizer: N=260; P_2O_5=140; K_2O=180
Herbicide: Dual + Extrazine
Insecticide: Lorsban
Irrigation: 2.5 inches
Previous Crop: Soybean

Growing Season Rainfall: May=6.1, June=4.5, July=5.1, Aug.=2.3, Sept.=16.0, TOTAL=34.0"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Pioneer Hybrid 3394(sx)	2	26500	18.7	4.9	139.5**	218.1*	164.8	178.8	174.1
Cargill 7697(sx)	3	26500	19.7	32.3	127.7*	218.6*	154.9	173.2	167.1
Cargill 8177(sx)	4	25200	20.6	20.1	125.7*	207.6	--	166.7	--
MFA 5513(sx)	4	26100	20.9	2.2	123.9*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	24300	24.0	30.6	123.8*	--	--	--	--
Golden Harvest H-2530(sx)	1	25200	18.8	0.3	123.2*	--	--	--	--
Northrup King N7707(sx)	4	25000	21.2	1.7	120.5*	--	--	--	--
HyPerformer HS 9610(sx)	2	24600	18.9	16.7	117.6	--	--	--	--
Northrup King N7768(sx)	4	26500	22.1	6.4	117.1	199.3	153.4	158.2	156.6
Dekalb DK671(sx)	2	25800	21.9	4.9	117.0	199.2	136.1	158.1	150.8
Dekalb DK715(sx)	3	25500	21.7	15.8	116.1	--	--	--	--
Stine 1179(sx)	2	23200	22.1	3.9	116.0	--	--	--	--
Bo-Jac 386(sx)	1	23500	18.9	0.0	114.7	--	--	--	--
Golden Harvest H-2592(sx)	2	23800	21.1	4.8	112.0	208.2	140.0	160.1	153.4
Pioneer Hybrid 3317(sx)	4	23700	19.3	12.6	110.7	223.0*	172.7*	166.9	168.8
Golden Acres T-E 7070(sx)	2	25500	20.2	2.3	110.2	196.0	--	153.1	--
Pioneer Hybrid 3162(sx)	4	24700	22.4	1.8	109.4	242.5**	169.4*	176.0	173.8
Northrup King N6330(sx)	3	24300	18.9	1.9	109.0	201.0	174.8*	155.0	161.6
Terra - TR 1145(sx)	2	24800	20.7	4.6	106.9	220.2*	--	163.6	--
Cargill 7997(sx)	4	22100	20.8	29.1	106.4	223.4*	159.1	164.9	163.0
Stine 1195(sx)	3	24300	23.1	6.2	106.1	--	--	--	--
Dyna-Gro 5561(sx)	3	23600	20.2	2.7	106.0	--	--	--	--
Terra - TR 1167(sx)	3	24900	21.8	2.7	105.8	210.1	--	158.0	--
Golden Harvest H-2641(sx)	2	22400	23.3	5.0	105.6	214.1	--	159.9	--
HyPerformer HS 9822(sx)	3	24600	21.2	5.6	104.8	--	--	--	--
Terra - TR 700E(sx)	3	22100	25.1	4.1	104.2	--	--	--	--
Golden Harvest H-2525(sx)	1	24400	19.2	3.8	104.0	211.7	164.5	157.9	160.1
Dekalb DK646(sx)	2	25000	20.8	8.8	103.9	203.1	160.3	153.5	155.8
Bo-Jac 925(sx)	3	25200	21.8	2.5	103.7	227.2*	--	165.5	--
Terra - TR 641E(sx)	2	23800	21.1	4.5	103.4	213.3	--	158.4	--
Oro 166(sx)	1	25000	19.9	3.9	103.0	--	--	--	--
Bo-Jac 629(sx)	3	25700	22.7	4.4	102.3	211.0	--	156.7	--
Golden Harvest H-2544(sx)	1	25000	20.3	3.3	102.2	212.7	--	157.5	--
MFA 3516(sx)	4	25400	20.1	1.4	101.9	199.7	164.8	150.8	155.5
Lynks 2812(sx)	2	24200	21.3	6.1	101.9	--	--	--	--
Cargill 8327(sx)	4	26100	23.1	6.6	101.1	--	--	--	--
ICI 8272(sx)	3	25700	20.2	4.0	99.5	--	--	--	--
Golden Acres T-E 9586(sx)	3	23500	23.3	9.4	99.3	193.1	--	146.2	--
Bo-Jac 7195(sx)	2	25900	21.4	2.3	98.9	219.8*	--	159.4	--
Northrup King N7989(sx)	4	25000	20.6	2.2	98.8	--	--	--	--
Ciba 4742(sx)	4	25000	22.6	8.6	98.7	--	--	--	--
HyPerformer HS 9848(sx)	3	24300	20.8	5.4	97.4	--	--	--	--
Oro 188(sx)	2	22700	23.7	13.8	97.3	190.4	142.1	143.9	143.3
Pioneer Hybrid 3245(sx)	4	26100	20.2	3.9	96.7	220.3*	153.0	158.5	156.7
Triumph 1270(sx)	1	25000	19.8	7.4	94.6	205.9	164.1	150.3	154.9
MFA 5823(sx)	4	23700	21.6	4.0	94.0	--	--	--	--
HyPerformer HS 9843(sx)	3	23400	22.4	3.4	93.2	--	--	--	--
MFA 4512(sx)	2	25500	19.7	4.6	91.6	220.5*	164.7	156.1	158.9
Ciba 4581(sx)	2	25500	20.9	7.1	91.2	--	--	--	--
Terra - TR 702E(sx)	4	24100	24.9	4.3	91.1	--	--	--	--
Asgrow RX899(sx)	1	25900	19.5	2.4	89.6	226.9*	182.0*	158.3	166.2
Lynks 2868(sx)	2	25200	23.1	0.8	89.5	--	--	--	--
Merschman M-2121(sx)	1	26000	21.0	7.3	89.4	209.6	--	149.5	--
NC+ 7304(sx)	2	25300	21.0	7.9	88.8	204.2	153.9	146.5	149.0
Lynks 2829(sx)	2	23400	21.5	4.9	87.0	--	--	--	--
NC+ 5037(sx)	2	24900	19.4	4.1	87.0	--	--	--	--
NC+ 7117(sx)	2	25700	21.7	6.3	84.6	--	--	--	--
Dyna-Gro 5671(sx)	3	20600	22.5	4.8	83.7	--	--	--	--

TABLE 10. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre) 1993	Moisture (%) 1993	Lodging (%)	Yield (Bu/Acre) 1993	1992	1991	Means 2 Yr.	3 Yr.
Triumph 2010(sx)	2	24400	22.9	2.4	82.2	203.5	--	142.9	--
Golden Acres T-E 7065(sx)	2	24700	20.7	3.6	81.8	--	--	--	--
Terra - E1168(sx)	3	24300	21.1	1.4	79.0	--	--	--	--
MFA 6821(sx)	4	24600	24.0	13.9	71.4	187.1	--	129.3	--
TRIAL AVERAGE		24660	21.3	6.6	102.6	206.2	155.4	154.4	154.7
L.S.D. AT .05		NS	1.7	12.4	20.7	25.6	21.7		
C.V. %		8.2	4.9		12.2	7.7	8.6		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 11. Performance record of Irrigated Corn Hybrids evaluated at two southwestern Missouri locations (Nevada and Lamar) during 1993.

Nevada
Planted: 27 May 1993
Harvested: 7 October 1993
Growing Season Rainfall: 53.1 inches
Irrigation: 2.0 inches

Lamar
Planted: 27 May 1993
Harvested: 1 October 1993
Growing Season Rainfall: 34.0 inches
Irrigation: 2.5 inches

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Nevada	Lamar	Mean	Nevada	Lamar	Mean
Pioneer Hybrid 3394(sx)	2	0.5	4.9	2.7	115.9*	139.5**	127.7**
Cargill 7697(sx)	3	0.0	32.3	16.2	127.2**	127.7*	127.4*
MFA 5513(sx)	4	0.0	2.2	1.1	120.5*	123.9*	122.2*
Pioneer Hybrid 3163(sx)	4	0.0	30.6	15.3	119.8*	123.8*	121.8*
Northrup King N7707(sx)	4	0.5	1.7	1.1	115.9*	120.5*	118.2*
Golden Acres T-E 7070(sx)	2	0.0	2.3	1.2	121.5*	110.2	115.8*
Cargill 7997(sx)	4	5.9	29.1	17.5	125.0*	106.4	115.7*
Dekalb DK671(sx)	2	0.5	4.9	2.7	113.8*	117.0	115.4*
Northrup King N7768(sx)	4	0.9	6.4	3.6	113.2*	117.1	115.2*
Golden Harvest H-2530(sx)	1	0.5	0.3	0.4	106.3*	123.2*	114.8*
Cargill 8177(sx)	4	0.5	20.1	10.3	102.9*	125.7*	114.3*
HyPerformer HS 9610(sx)	2	0.6	16.7	8.6	109.3*	117.6	113.4*
Stine 1179(sx)	2	0.0	3.9	2.0	108.4*	116.0	112.2*
Dekalb DK646(sx)	2	0.5	8.8	4.6	118.7*	103.9	111.3
Dyna-Gro 5561(sx)	3	0.0	2.7	1.4	114.3*	106.0	110.2
Northrup King N6330(sx)	3	2.8	1.9	2.4	110.7*	109.0	109.8
Pioneer Hybrid 3162(sx)	4	0.5	1.8	1.2	109.2*	109.4	109.3
HyPerformer HS 9822(sx)	3	1.4	5.6	3.5	113.7*	104.8	109.2
Lynks 2812(sx)	2	0.0	6.1	3.0	116.0*	101.9	109.0
Golden Harvest H-2592(sx)	2	0.0	4.8	2.4	106.1*	112.0	109.0
Dekalb DK715(sx)	3	0.5	15.8	8.2	101.7	116.1	108.9
Terra - TR 641E(sx)	2	0.5	4.5	2.5	112.5*	103.4	108.0
Bo-Jac 386(sx)	1	0.0	0.0	0.0	101.1	114.7	107.9
Terra - TR 1145(sx)	2	1.0	4.6	2.8	108.8*	106.9	107.8
Golden Harvest H-2544(sx)	1	0.5	3.3	1.9	111.3*	102.2	106.8
Ciba 4742(sx)	4	1.0	8.6	4.8	114.7*	98.7	106.7
Terra - TR 702E(sx)	4	0.0	4.3	2.2	120.5*	91.1	105.8
Bo-Jac 925(sx)	3	0.0	2.5	1.2	106.3*	103.7	105.0
Bo-Jac 7195(sx)	2	0.0	2.3	1.2	110.4*	98.9	104.6
Terra - TR 700E(sx)	3	6.9	4.1	5.5	104.7*	104.2	104.4
Oro 166(sx)	1	0.9	3.9	2.4	105.6*	103.0	104.3
MFA 3516(sx)	4	0.0	1.4	0.7	103.9*	101.9	102.9
Stine 1195(sx)	3	0.0	6.2	3.1	98.6	106.1	102.4
Golden Acres T-E 9586(sx)	3	6.9	9.4	8.2	103.9*	99.3	101.6
MFA 5823(sx)	4	0.0	4.0	2.0	108.1*	94.0	101.0
Northrup King N7989(sx)	4	0.5	2.2	1.4	102.9*	98.8	100.8
Cargill 8327(sx)	4	0.0	6.6	3.3	99.7	101.1	100.4
Oro 188(sx)	2	3.5	13.8	8.6	103.3*	97.3	100.3
Golden Harvest H-2525(sx)	1	0.5	3.8	2.2	96.2	104.0	100.1
Terra - TR 1167(sx)	3	1.3	2.7	2.0	94.1	105.8	100.0
Pioneer Hybrid 3317(sx)	4	0.5	12.6	6.6	89.1	110.7	99.9
ICI 8272(sx)	3	1.0	4.0	2.5	98.8	99.5	99.2
Merschman M-2121(sx)	1	0.0	7.3	3.6	108.8*	89.4	99.1
Lynks 2829(sx)	2	1.0	4.9	3.0	109.2*	87.0	98.1
Bo-Jac 629(sx)	3	0.0	4.4	2.2	90.3	102.3	96.3
HyPerformer HS 9848(sx)	3	0.0	5.4	2.7	94.7	97.4	96.0
Dyna-Gro 5671(sx)	3	0.0	4.8	2.4	106.5*	83.7	95.1
MFA 4512(sx)	2	0.5	4.6	2.6	98.2	91.6	94.9
Golden Acres T-E 7065(sx)	2	2.9	3.6	3.2	107.7*	81.8	94.8
Triumph 1270(sx)	1	0.5	7.4	4.0	94.9	94.6	94.8
Lynks 2868(sx)	2	1.5	0.8	1.2	99.4	89.5	94.4
Ciba 4581(sx)	2	0.0	7.1	3.6	96.6	91.2	93.9
NC+ 7304(sx)	2	1.4	7.9	4.6	94.9	88.8	91.8
Pioneer Hybrid 3245(sx)	4	0.0	3.9	2.0	84.1	96.7	90.4
Golden Harvest H-2641(sx)	2	0.9	5.0	3.0	74.8	105.6	90.2
HyPerformer HS 9843(sx)	3	0.4	3.4	1.9	86.8	93.2	90.0
Triumph 2010(sx)	2	1.8	2.4	2.1	92.3	82.2	87.2

TABLE 11. Continued.

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Nevada	Lamar	Mean	Nevada	Lamar	Mean
NC+ 5037(sx)	2	0.5	4.1	2.3	87.1	87.0	87.0
Asgrow RX899(sx)	1	0.5	2.4	1.4	84.2	89.6	86.9
NC+ 7117(sx)	2	0.0	6.3	3.2	88.5	84.6	86.6
MFA 6821(sx)	4	1.3	13.9	7.6	94.0	71.4	82.7
Terra - E1168(sx)	3	0.0	1.4	0.7	86.0	79.0	82.5
TRIAL AVERAGE		0.9	6.6	3.7	104.3	102.6	103.4
L.S.D. AT .05		2.7	12.4	6.5	25.0	20.7	16.2
C.V. %					14.6	12.2	13.8

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

TABLE 12. Performance of Irrigated Corn Hybrids evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1991-93.

Planted: 28 April 1993
Harvested: 10 September 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Commerce Silt Loam
Soil Test: pH=6.5, OM=2.1%, P=45, K=109

Fertilizer: N=213; P_2O_5=46; K_2O=90
Herbicide: Bullet
Insecticide: Lorsban
Irrigation: 4.5 inches
Previous Crop: Soybean

Growing Season Rainfall: Apr.=4.1, May=5.0, June=5.4, July=2.4, Aug.=2.1, TOTAL=19.0"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Pioneer Hybrid 3245(sx)	4	23100	20.4	10.2	205.1**	252.5**	242.0**	228.8	233.2
Pioneer Hybrid 3163(sx)	4	20100	21.2	6.7	196.6*	--	--	--	--
Lynks 2868(sx)	2	22400	21.3	5.6	194.3*	234.9*	--	214.6	--
HyPerformer HS 9822(sx)	3	22400	19.8	5.7	193.8*	--	--	--	--
Delta Genetics X2121(sx)	2	22000	21.1	3.3	190.8*	--	--	--	--
Pioneer Hybrid 3156(sx)	4	22800	21.3	11.3	187.8*	--	--	--	--
Triumph 2010(sx)	2	23300	22.4	2.3	185.6*	249.2*	--	217.4	--
Lynks 2829(sx)	2	21800	20.0	6.6	185.5*	248.0*	--	216.8	--
Cargill 7997(sx)	4	22300	20.0	3.4	185.3*	242.4*	241.9*	213.9	223.2
ICI 8272(sx)	2	22800	19.9	2.8	185.2*	211.5	--	198.4	--
Northrup King N7989(sx)	4	23100	20.2	5.5	184.8*	--	--	--	--
Pioneer Hybrid 3279(sx)	3	22300	19.4	4.1	184.3*	236.2*	--	210.3	--
Lynks 2812(sx)	2	23100	20.0	3.3	182.8*	--	--	--	--
MFA 5823(sx)	4	22400	19.7	8.1	182.6*	--	--	--	--
Cargill 8177(sx)	4	22500	19.4	2.6	182.5*	237.4*	--	210.0	--
Terra - TR 641E(sx)	2	23000	21.2	5.2	182.5*	230.3	--	206.4	--
Dyna-Gro 5510(sx)	2	23100	20.9	8.6	182.0*	225.1	--	203.6	--
ICI 8513(sx)	1	21300	21.2	1.7	181.8*	--	--	--	--
Asgrow RX899(sx)	1	22700	19.8	2.1	181.4*	--	--	--	--
AgriGene AG7720(sx)	4	22100	20.1	5.5	181.0*	--	--	--	--
Dekalb DK714(sx)	3	23500	21.7	8.0	180.5*	--	--	--	--
Cargill 8327(sx)	4	21400	20.4	2.9	180.2*	--	--	--	--
Delta Genetics DG 192(sx)	4	21700	21.1	1.6	180.2*	232.7*	215.2	206.5	209.4
Triumph 1270(sx)	1	22000	19.1	4.2	179.4*	230.8	212.8	205.1	207.7
Northrup King N6330(sx)	3	21700	19.0	4.1	179.0*	231.7	213.1	205.4	207.9
HyPerformer HS 9843(sx)	3	22000	19.9	0.2	178.3*	237.8*	--	208.1	--
Cargill 9027(sx)	4	22600	20.5	3.4	178.0*	216.8	223.5*	197.4	206.1
Crow's 667(sx)	2	22700	20.3	6.3	177.2*	228.0	--	202.6	--
Terra - TR 1167(sx)	3	22300	21.6	5.3	176.8*	233.6*	--	205.2	--
Deltapine G-4673B(sx)	2	19900	21.6	4.6	176.8*	231.2	234.8*	204.0	214.3
Oro 188(sx)	2	21100	22.5	4.1	176.2*	245.1*	219.7*	210.7	213.7
MFA 4512(sx)	2	23100	19.4	4.0	176.1*	221.8	209.8	199.0	202.6
Pioneer Hybrid 3394(sx)	2	22000	18.8	3.7	175.6*	232.8*	214.7	204.2	207.7
Pioneer Hybrid 3140(sx)	4	22500	21.0	0.1	175.4*	239.6*	232.3*	207.5	215.8
AgriGene AG7890(sx)	4	22200	21.4	3.0	175.1*	--	--	--	--
HyPerformer HS 9502(sx)	1	22800	19.6	4.3	174.4	228.7	--	201.6	--
Dekalb DK671(sx)	2	22600	20.3	2.1	174.2	220.5	229.7*	197.4	208.1
Delta Genetics X1911(sx)	4	21900	20.9	5.2	173.9	232.5*	--	203.2	--
Dekalb DK683(sx)	2	21900	20.7	5.0	173.8	--	--	--	--
Cargill 7897(sx)	4	22100	20.3	6.5	173.1	--	--	--	--
AgriGene AG7885(sx)	4	22800	22.2	7.0	172.8	--	--	--	--
Vigoro V 1182(sx)	4	23100	19.7	1.6	172.5	220.7	--	196.6	--
ICI 8260(sx)	2	21800	20.6	8.9	171.1	--	--	--	--
Northrup King N7768(sx)	4	23600	22.3	7.5	170.8	232.2*	--	201.5	--
ICI 8310(sx)	2	22100	20.2	4.9	170.3	230.9	--	200.6	--
HyPerformer HS 9848(sx)	3	22800	19.4	2.7	170.2	--	--	--	--
Growers 4202(sx)	1	22000	21.5	3.7	170.2	240.0*	--	205.1	--
Dyna-Gro 5509(sx)	2	22200	20.5	5.9	170.2	--	--	--	--
Oro 166(sx)	1	21400	22.1	6.3	169.6	--	--	--	--
HyPerformer HS 9977(sx)	4	21400	23.0	2.8	169.4	230.5	--	200.0	--
Pfister 3965(sx)	2	22200	21.0	4.2	169.3	--	--	--	--
Asgrow RX897(sx)	1	21700	20.4	5.6	168.6	224.3	--	196.5	--
Asgrow RX919(sx)	2	23000	23.4	3.3	167.1	244.0*	220.0*	205.6	210.4
Vigoro V 1194(sx)	4	22700	20.9	0.8	166.9	227.7	--	197.3	--
Crow's 510(sx)	1	22300	20.1	2.8	166.5	--	--	--	--
Deltapine 4450(sx)	1	22700	18.6	3.7	166.4	230.1	--	198.3	--
Terra - TR 702E(sx)	4	20400	21.9	3.8	166.4	--	--	--	--
HyPerformer HS 9905(sx)	3	22700	22.9	3.2	165.9	221.5	--	193.7	--

TABLE 12. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Growers 4172(spx)	2	22500	22.3	2.9	165.8	228.6	215.2	197.2	203.2
AgraTech 757(sx)	2	23300	20.7	8.3	165.5	229.5	202.8	197.5	199.3
AgraTech 790(sx)	2	22800	20.5	2.0	165.5	--	--	--	--
MFA 5513(sx)	4	21100	22.7	6.3	164.6	--	--	--	--
AgraTech 787(sx)	2	22900	21.4	5.8	164.3	242.1*	236.7*	203.2	214.4
Delta Genetics DG 186(sx)	4	23500	21.7	8.0	163.4	226.6	227.8*	195.0	205.9
Terra - E1168(sx)	3	21700	22.6	6.7	163.0	--	--	--	--
Seed Source Inc. USQ 866(sx)	2	23000	21.5	6.5	162.6	237.4*	--	200.0	--
Terra - TR 1145(sx)	2	22600	18.9	2.2	161.5	--	--	--	--
HyPerformer HS 9944(msx)	4	22300	21.6	4.0	160.8	--	--	--	--
AgraTech 660(sx)	2	22100	21.3	5.2	160.5	231.9*	--	196.2	--
MFA 3516(sx)	4	22500	19.3	8.3	159.7	219.6	213.9	189.6	197.7
Delta Genetics DG 195(sx)	4	22400	22.3	4.0	159.1	--	--	--	--
Crow's 668(sx)	2	20800	22.0	3.2	158.1	--	--	--	--
Wilson E11961(sx)	4	22400	22.3	6.1	156.5	--	--	--	--
Northrup King N7707(sx)	4	20500	20.6	8.2	154.7	--	--	--	--
Terra - TR 700E(sx)	3	21600	22.0	6.6	153.8	--	--	--	--
AgraTech 810(sx)	2	21300	20.6	3.1	153.4	--	--	--	--
Jacques 9220(sx)	3	20700	21.3	8.3	150.8	--	--	--	--
Jacques 8240(sx)	2	22300	20.8	2.6	148.9	--	--	--	--
Deltapine 4581(sx)	1	21500	21.7	4.2	148.8	233.8*	234.8*	191.3	205.8
Stine 1181(sx)	2	23200	22.9	2.9	140.8	228.6	--	184.7	--
MFA 6821(sx)	4	22300	21.6	5.7	138.0	210.7	--	174.4	--
Wilson Demand 116(sx)	4	21500	23.7	0.5	129.9	--	--	--	--
TRIAL AVERAGE		22223	20.9	4.7	171.5	228.4	213.3	200.0	204.4
L.S.D. AT .05		NS	2.5	5.6	30.3	20.6	23.7		
C.V. %		6.1	7.3		10.7	5.6	6.9		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 13. Performance of Irrigated Corn Hybrids evaluated near New Madrid (News Madrid County) on the Craig Hunter Farm during 1991-93.

Planted: 23 April 1993
Harvested: 21 September 1993
Planted Population: 29200
Row Spacing: 30 inches
Soil Type: Bosket Fine Sandy Loam
Soil Test: pH=6.0, OM=1.4%, P=73, K=358

Fertilizer: N=200; P_2O_5=0; K_2O=60
Herbicide: Bicept + Bladex
Insecticide: Lorsban
Irrigation: 4.00 inches
Previous Crop: Cotton

Growing Season Rainfall: Apr.=4.2, May=1.3, June=3.5, July=2.5, Aug.=1.3, TOTAL=12.8"

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
Pioneer Hybrid 3279(sx)	3	22600	16.1	2.4	194.9**	171.6	--	183.3	--
Northrup King N6330(sx)	3	24500	14.7	0.5	193.4*	186.8*	163.1	190.1	181.1
Lynks 2868(sx)	2	22400	16.5	1.1	192.9*	182.7*	--	187.8	--
Jacques 8240(sx)	2	22600	16.8	2.2	192.3*	--	--	--	--
AgriGene AG7720(sx)	4	22300	17.2	3.6	189.6*	--	--	--	--
Northrup King N7707(sx)	4	22400	15.6	1.7	189.0*	--	--	--	--
ICI 8272(sx)	2	23500	14.8	2.0	186.6*	164.2	--	175.4	--
ICI 8310(sx)	2	22100	15.6	4.5	185.9*	188.9*	--	187.4	--
Northrup King N7768(sx)	4	24300	17.1	1.6	183.8*	177.5*	--	180.7	--
Pioneer Hybrid 3245(sx)	4	22800	15.0	6.1	183.0*	187.4*	188.3	185.2	186.2
HyPerformer HS 9843(sx)	3	23700	16.3	2.5	182.9*	171.1	--	177.0	--
Cargill 8327(sx)	4	24400	17.2	2.8	182.6*	--	--	--	--
HyPerformer HS 9905(sx)	3	21900	16.8	3.0	182.4*	189.3*	--	185.9	--
MFA 5513(sx)	4	22500	15.4	4.3	180.9*	--	--	--	--
MFA 4512(sx)	2	23500	14.7	3.5	179.4*	180.6*	167.2	180.0	175.7
Triumph 2010(sx)	2	23100	16.2	1.7	179.4*	192.2*	--	185.8	--
Cargill 9027(sx)	4	22000	16.2	3.3	179.0*	190.9*	157.4	185.0	175.8
Lynks 2829(sx)	2	22500	15.7	2.1	177.8*	179.9*	--	178.9	--
MFA 3516(sx)	4	22600	16.0	4.1	177.7*	161.5	180.6	169.6	173.3
Terra - TR 1167(sx)	3	22900	15.7	3.6	176.9*	195.9*	--	186.4	--
Pioneer Hybrid 3394(sx)	2	21300	15.5	5.9	176.9*	200.4**	185.9	188.7	187.7
Deltapine G-4673B(sx)	2	21400	16.3	5.9	175.7*	189.1*	185.4	182.4	183.4
Oro 166(sx)	1	23500	16.3	6.6	175.4*	--	--	--	--
AgraTech 660(sx)	2	22300	14.7	3.3	175.3*	187.9*	--	181.6	--
Delta Genetics DG 186(sx)	4	22500	16.4	2.2	175.1*	188.7*	177.0	181.9	180.3
Dekalb DK683(sx)	2	22500	15.7	3.0	175.0*	--	--	--	--
Crow's 668(sx)	2	22000	15.6	3.0	174.9*	--	--	--	--
AgraTech 757(sx)	2	24200	14.9	1.9	174.2*	199.5*	181.5	186.9	185.1
Vigoro V 1182(sx)	4	23600	16.2	3.5	174.1*	181.9*	--	178.0	--
HyPerformer HS 9977(sx)	4	22100	18.1	4.1	173.2*	188.6*	--	180.9	--
Dekalb DK671(sx)	2	21600	16.8	3.0	172.7*	188.8*	165.8	180.8	175.8
Pfister 3965(sx)	2	22100	16.3	7.6	172.3*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	22400	15.8	6.7	172.2*	--	--	--	--
Terra - TR 702E(sx)	4	23500	16.7	5.1	171.2*	--	--	--	--
Terra - TR 641E(sx)	2	22900	17.3	5.6	171.0*	186.5*	--	178.8	--
HyPerformer HS 9848(sx)	3	22200	15.8	3.3	170.6*	--	--	--	--
AgriGene AG7890(sx)	4	22800	16.7	1.6	170.6*	--	--	--	--
Asgrow RX897(sx)	1	23000	16.5	2.7	170.3*	196.4*	--	183.4	--
Terra - E1168(sx)	3	22800	15.3	1.7	169.9*	--	--	--	--
Deltapine 4581(sx)	1	22600	15.5	2.6	169.8*	183.2*	177.8	176.5	176.9
HyPerformer HS 9502(sx)	1	23500	14.4	0.5	169.3*	197.1*	--	183.2	--
Deltapine 4450(sx)	1	22100	15.2	4.1	168.6*	177.8*	--	173.2	--
Stine 1181(sx)	2	21800	16.5	3.0	168.6*	192.7*	--	180.6	--
Asgrow RX899(sx)	1	23900	15.1	2.9	168.5*	--	--	--	--
Growers 4202(sx)	1	23100	16.0	3.0	168.2*	182.6*	--	175.4	--
Dekalb DK714(sx)	3	23400	16.9	4.1	168.1*	--	--	--	--
ICI 8260(sx)	2	23900	16.0	2.7	167.3*	--	--	--	--
Delta Genetics DG 192(sx)	4	23000	16.1	5.0	167.2*	194.9*	177.7	181.1	179.9
Cargill 7997(sx)	4	24000	14.1	7.6	167.2*	199.8*	186.9	183.5	184.6
Pioneer Hybrid 3140(sx)	4	23200	16.6	3.4	166.9*	177.6*	157.0	172.3	167.2
HyPerformer HS 9822(sx)	3	22100	15.8	6.6	166.6*	--	--	--	--
Crow's 667(sx)	2	22800	16.3	1.2	166.5*	184.2*	--	175.4	--
Growers 4172(spx)	2	21300	17.2	6.0	166.5*	177.6*	164.5	172.1	169.5
Delta Genetics X2121(sx)	2	22700	15.6	1.8	165.9	--	--	--	--
MFA 5823(sx)	4	23800	16.2	6.8	165.7	--	--	--	--
Crow's 510(sx)	1	23100	14.7	1.8	165.4	--	--	--	--
Northrup King N7989(sx)	4	22500	14.9	11.0	165.2	--	--	--	--
AgriGene AG7885(sx)	4	24200	16.6	5.3	163.4	--	--	--	--

TABLE 13. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
		1993			1993	1992	1991	2 Yr.	3 Yr.
MFA 6821(sx)	4	22100	15.8	4.6	162.1	191.2*	--	176.6	--
Vigoro V 1194(sx)	4	23500	17.6	3.4	161.9	195.3*	--	178.6	--
Dyna-Gro 5510(sx)	2	23600	16.4	4.0	161.9	181.5*	--	171.7	--
Triumph 1270(sx)	1	23500	15.4	5.9	161.2	181.8*	175.3	171.5	172.8
AgraTech 787(sx)	2	24000	16.8	5.3	161.0	183.4*	170.1	172.2	171.5
ICI 8513(sx)	1	23000	15.4	2.0	160.9	--	--	--	--
Terra - TR 700E(sx)	3	23100	17.7	5.5	160.4	--	--	--	--
Oro 188(sx)	2	21100	17.5	4.0	160.1	191.7*	167.7	175.9	173.2
Jacques 9220(sx)	3	21400	17.2	8.7	159.3	--	--	--	--
Cargill 7897(sx)	4	23000	16.3	10.7	158.8	--	--	--	--
Wilson E11961(sx)	4	23000	16.3	10.5	158.6	--	--	--	--
Pioneer Hybrid 3156(sx)	4	22500	15.6	3.5	158.4	--	--	--	--
Delta Genetics DG 195(sx)	4	23400	16.6	3.6	158.3	--	--	--	--
Dyna-Gro 5509(sx)	2	21500	15.3	6.5	157.6	--	--	--	--
Terra - TR 1145(sx)	2	25400	15.5	3.8	156.7	--	--	--	--
AgraTech 810(sx)	2	22600	16.5	6.8	155.3	--	--	--	--
AgraTech 790(sx)	2	23400	15.1	0.6	150.8	--	--	--	--
HyPerformer HS 9944(msx)	4	22600	16.0	8.8	150.0	--	--	--	--
Seed Source Inc. USQ 866(sx)	2	22200	16.3	12.3	146.2	173.4	--	159.8	--
Wilson Demand 116(sx)	4	20400	16.7	2.4	145.3	--	--	--	--
Cargill 8177(sx)	4	21800	15.0	4.3	140.4	168.6	--	154.5	--
Lynks 2812(sx)	2	22200	16.9	8.9	139.6	--	--	--	--
Asgrow RX919(sx)	2	21800	16.6	5.7	137.7	173.0	167.0	155.4	159.2
Delta Genetics X1911(sx)	4	22600	15.8	3.7	136.5	194.5*	--	165.5	--
TRIAL AVERAGE		22780	16.1	4.2	169.0	181.4	171.0	175.2	173.8
L.S.D. AT .05		NS	1.4	6.3	28.5	26.6	NS		
C.V. %		7.6	5.5		10.3	9.2	11.0		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
NS Not significant at the .05 level.

TABLE 14. Performance record of Irrigated Corn Hybrids evaluated at two southeast Missouri locations (Oran and New Madrid) during 1993.

Oran
Planted: 28 April 1993
Harvested: 10 September 1993
Growing Season Rainfall: 19.0 inches
Irrigation: 4.5 inches

New Madrid
Planted: 23 April 1993
Harvested: 21 September 1993
Growing Season Rainfall: 12.8 inches
Irrigation: 4.0 inches

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Pioneer Hybrid 3245(sx)	4	10.2	6.1	8.2	205.1**	183.0*	194.0**
Lynks 2868(sx)	2	5.6	1.1	3.4	194.3*	192.9*	193.6*
Pioneer Hybrid 3279(sx)	3	4.1	2.4	3.2	184.3*	194.9**	189.6*
Northrup King N6330(sx)	3	4.1	0.5	2.3	179.0*	193.4*	186.2*
ICI 8272(sx)	2	2.8	2.0	2.4	185.2*	186.6*	185.9*
AgriGene AG7720(sx)	4	5.5	3.6	4.6	181.0*	189.6*	185.3*
Pioneer Hybrid 3163(sx)	4	6.7	6.7	6.7	196.6*	172.2*	184.4*
Triumph 2010(sx)	2	2.3	1.7	2.0	185.6*	179.4*	182.5*
Lynks 2829(sx)	2	6.6	2.1	4.4	185.5*	177.8*	181.6*
Cargill 8327(sx)	4	2.9	2.8	2.8	180.2*	182.6*	181.4*
HyPerformer HS 9843(sx)	3	0.2	2.5	1.4	178.3*	182.9*	180.6*
HyPerformer HS 9822(sx)	3	5.7	6.6	6.2	193.8*	166.6*	180.2*
Cargill 9027(sx)	4	3.4	3.3	3.4	178.0*	179.0*	178.5*
Delta Genetics X2121(sx)	2	3.3	1.8	2.6	190.8*	165.9	178.4*
ICI 8310(sx)	2	4.9	4.5	4.7	170.3	185.9*	178.1*
MFA 4512(sx)	2	4.0	3.5	3.8	176.1*	179.4*	177.8*
Northrup King N7768(sx)	4	7.5	1.6	4.6	170.8	183.8*	177.3*
Terra - TR 1167(sx)	3	5.3	3.6	4.4	176.8*	176.9*	176.8*
Terra - TR 641E(sx)	2	5.2	5.6	5.4	182.5*	171.0*	176.8*
Deltapine G-4673B(sx)	2	4.6	5.9	5.2	176.8*	175.7*	176.2*
Pioneer Hybrid 3394(sx)	2	3.7	5.9	4.8	175.6*	176.9*	176.2*
Cargill 7997(sx)	4	3.4	7.6	5.5	185.3*	167.2*	176.2*
Northrup King N7989(sx)	4	5.5	11.0	8.2	184.8*	165.2	175.0*
Asgrow RX899(sx)	1	2.1	2.9	2.5	181.4*	168.5*	175.0*
Dekalb DK683(sx)	2	5.0	3.0	4.0	173.8	175.0*	174.4*
Dekalb DK714(sx)	3	8.0	4.1	6.0	180.5*	168.1*	174.3*
MFA 5823(sx)	4	8.1	6.8	7.4	182.6*	165.7	174.2*
HyPerformer HS 9905(sx)	3	3.2	3.0	3.1	165.9	182.4*	174.2*
Delta Genetics DG 192(sx)	4	1.6	5.0	3.3	180.2*	167.2*	173.7*
Dekalb DK671(sx)	2	2.1	3.0	2.6	174.2	172.7*	173.4*
Vigoro V 1182(sx)	4	1.6	3.5	2.6	172.5	174.1*	173.3*
Pioneer Hybrid 3156(sx)	4	11.3	3.5	7.4	187.8*	158.4	173.1*
MFA 5513(sx)	4	6.3	4.3	5.3	164.6	180.9*	172.8*
AgriGene AG7890(sx)	4	3.0	1.6	2.3	175.1*	170.6*	172.8*
Oro 166(sx)	1	6.3	6.6	6.4	169.6	175.4*	172.5
Dyna-Gro 5510(sx)	2	8.6	4.0	6.3	182.0*	161.9	172.0
Crow's 667(sx)	2	6.3	1.2	3.8	177.2*	166.5*	171.8
Northrup King N7707(sx)	4	8.2	1.7	5.0	154.7	189.0*	171.8
HyPerformer HS 9502(sx)	1	4.3	0.5	2.4	174.4	169.3*	171.8
ICI 8513(sx)	1	1.7	2.0	1.8	181.8*	160.9	171.4
HyPerformer HS 9977(sx)	4	2.8	4.1	3.4	169.4	173.2*	171.3
Pioneer Hybrid 3140(sx)	4	0.1	3.4	1.8	175.4*	166.9*	171.2
Pfister 3965(sx)	2	4.2	7.6	5.9	169.3	172.3*	170.8
Jacques 8240(sx)	2	2.6	2.2	2.4	148.9	192.3*	170.6
HyPerformer HS 9848(sx)	3	2.7	3.3	3.0	170.2	170.6*	170.4
Triumph 1270(sx)	1	4.2	5.9	5.0	179.4*	161.2	170.3
AgraTech 757(sx)	2	8.3	1.9	5.1	165.5	174.2*	169.8
Asgrow RX897(sx)	1	5.6	2.7	4.2	168.6	170.3*	169.4
Delta Genetics DG 186(sx)	4	8.0	2.2	5.1	163.4	175.1*	169.2
Growers 4202(sx)	1	3.7	3.0	3.4	170.2	168.2*	169.2
ICI 8260(sx)	2	8.9	2.7	5.8	171.1	167.3*	169.2
Terra - TR 702E(sx)	4	3.8	5.1	4.4	166.4	171.2*	168.8
MFA 3516(sx)	4	8.3	4.1	6.2	159.7	177.7*	168.7
Oro 188(sx)	2	4.1	4.0	4.0	176.2*	160.1	168.2
AgriGene AG7885(sx)	4	7.0	5.3	6.2	172.8	163.4	168.1
AgraTech 660(sx)	2	5.2	3.3	4.2	160.5	175.3*	167.9
Deltapine 4450(sx)	1	3.7	4.1	3.9	166.4	168.6*	167.5
Crow's 668(sx)	2	3.2	3.0	3.1	158.1	174.9*	166.5
Terra - E1168(sx)	3	6.7	1.7	4.2	163.0	169.9*	166.4
Growers 4172(spx)	2	2.9	6.0	4.4	165.8	166.5*	166.2

TABLE 14. Continued.

Brand-Hybrid	Maturity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Cargill 7897(sx)	4	6.5	10.7	8.6	173.1	158.8	166.0
Crow's 510(sx)	1	2.8	1.8	2.3	166.5	165.4	166.0
Vigoro V 1194(sx)	4	0.8	3.4	2.1	166.9	161.9	164.4
Dyna-Gro 5509(sx)	2	5.9	6.5	6.2	170.2	157.6	163.9
AgraTech 787(sx)	2	5.8	5.3	5.6	164.3	161.0	162.6
Cargill 8177(sx)	4	2.6	4.3	3.4	182.5*	140.4	161.4
Lynks 2812(sx)	2	3.3	8.9	6.1	182.8*	139.6	161.2
Deltapine 4581(sx)	1	4.2	2.6	3.4	148.8	169.8*	159.3
Terra - TR 1145(sx)	2	2.2	3.8	3.0	161.5	156.7	159.1
Delta Genetics DG 195(sx)	4	4.0	3.6	3.8	159.1	158.3	158.7
AgraTech 790(sx)	2	2.0	0.6	1.3	165.5	150.8	158.2
Wilson E11961(sx)	4	6.1	10.5	8.3	156.5	158.6	157.6
Terra - TR 700E(sx)	3	6.6	5.5	6.0	153.8	160.4	157.1
HyPerformer HS 9944(msx)	4	4.0	8.8	6.4	160.8	150.0	155.4
Delta Genetics X1911(sx)	4	5.2	3.7	4.4	173.9	136.5	155.2
Jacques 9220(sx)	3	8.3	8.7	8.5	150.8	159.3	155.0
Stine 1181(sx)	2	2.9	3.0	3.0	140.8	168.6*	154.7
AgraTech 810(sx)	2	3.1	6.8	5.0	153.4	155.3	154.4
Seed Source Inc. USQ 866(sx)	2	6.5	12.3	9.4	162.6	146.2	154.4
Asgrow RX919(sx)	2	3.3	5.7	4.5	167.1	137.7	152.4
MFA 6821(sx)	4	5.7	4.6	5.2	138.0	162.1	150.0
Wilson Demand 116(sx)	4	0.5	2.4	1.4	129.9	145.3	137.6
TRIAL AVERAGE		4.7	4.2	4.5	171.5	169.0	170.2
L.S.D. AT .05		5.6	6.3	4.2	30.3	28.5	21.4
C.V. %					10.7	10.3	11.1

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

TABLE 15. Performance of Early Maturing Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1991-93.

Planted: 27 April 1993
Harvested: 30 September 1993
Final Population: 28,000
Row Spacing: 30 inches
Soil Type: Monona Silt Loam
Soil Test: pH=6.1, OM=2.9%, P=71, K=377

Fertilizer: N=180; P_2O_5=100; K_2O=100
Herbicide: Lariat + Bladex
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Corn

Growing Season Rainfall: Apr.=4.7, May=5.3, June=7.4, July=6.9, Aug.=8.9, TOTAL=33.2"

Brand-Hybrid	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Mean 2 Yr.	Mean 3 Yr.
Early Maturing (90-100 days) +							
Pioneer Hybrid 3563(sx)	16.8	2.7	141.5*	216.1*	--	178.8	--
Ciba 4393(sx)	16.1	3.4	138.3*	--	--	--	--
NC+ 3795(sx)	16.3	1.4	138.2*	--	177.2**	--	--
Lewis 4311(sx)	17.0	14.2	137.9*	204.9*	--	171.4	--
Lynks 2588	18.0	6.4	137.2*	--	--	--	--
Ciba 4282(sx)	15.9	2.2	129.8	--	--	--	--
Terra - TR 600E(sx)	17.6	4.6	129.7	210.1*	--	169.9	--
Ciba 4372(sx)	16.6	2.7	128.4	--	--	--	--
Bo-Jac 335(sx)	15.8	2.3	124.2	--	--	--	--
MFA 1822(sx)	16.5	22.3	123.1	179.6	--	151.4	--
Golden Harvest H-2404(sx)	17.0	10.0	122.0	175.2	153.8	148.6	150.3
Merschman M-2106	17.3	14.5	122.0	--	--	--	--
Northrup King N4242(sx)	17.0	4.0	120.2	170.6	--	145.4	--
Bo-Jac X299(sx)	16.9	2.0	119.3	--	--	--	--
Lynks 2550	16.4	2.7	117.8	--	--	--	--
NC+ 1991(sx)	15.6	2.4	117.6	--	--	--	--
Merschman M-3097	16.7	13.1	112.9	--	--	--	--
Pioneer Hybrid 3751(sx)	17.2	3.7	112.4	176.7	168.8*	144.6	152.6
Golden Harvest H-2390(sx)	17.9	2.0	112.3	179.4	153.4	145.9	148.4
Ciba 4183(sx)	15.5	19.1	110.4	--	--	--	--
Bo-Jac 135(sx)	16.4	10.4	110.2	--	--	--	--
Early Full Season (101-110 days) +							
Dekalb DK591(sx)	17.9	3.1	151.2*	--	--	--	--
Pioneer Hybrid 3417(sx)	17.8	7.5	145.6*	--	--	--	--
Dekalb DK580(sx)	17.7	0.4	144.8*	--	--	--	--
Cargill 4277(sx)	15.6	1.3	134.0	--	--	--	--
Pioneer Hybrid 3525(sx)	17.8	7.6	133.7	--	--	--	--
Federal FX37E(sx)	16.1	0.8	121.4	--	--	--	--
Stine 1059(sx)	17.6	1.7	120.9	--	--	--	--
Dyna-Gro 5313-IPro(sx)	17.6	5.4	120.8	--	--	--	--
Dekalb DK535(sx)	17.2	1.5	115.7	199.4*	168.4*	157.6	161.2
Dyna-Gro 5243(sx)	16.3	5.7	107.6	--	--	--	--
Cargill 4327(sx)	17.1	10.1	105.9	172.5	167.5*	139.2	148.6
Cargill 3777(sx)	16.9	2.6	86.6	--	--	--	--
Mid Full Season (111-120 days) +							
Pioneer Hybrid 3394(sx)	17.4	2.9	157.5**	--	--	--	--
Dyna-Gro 5470(sx)	18.6	3.8	142.3*	221.3**	--	181.8	--
Full Season (121-130 days)							
Pioneer Hybrid 3245(sx)##	19.5	3.2	127.0	--	--	--	--
TRIAL AVERAGE	17.0	5.7	125.6	186.9	163.8	156.2	158.8
L.S.D. AT .05	1.7	10.8	21.8	25.5	21.5		
C.V. %	7.2		12.4	9.6	9.2		

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
Full season hybrid (120-130 day relative maturity), thinned to 20,000 plants/acre.
+ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.

TABLE 16. Performance of Early Maturing Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1991-93.

Planted: 30 April 1993
Harvested: 28 September 1993
Final Population: 28,000
Row Spacing: 30 inches
Soil Type: Mexico Silt Loam
Soil Test: pH=5.8, OM=1.0%, P=81, K=332

Fertilizer: N=225; P_2O_5=100; K_2O=100
Herbicide: Lariat + Bladex
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Soybean

Growing Season Rainfall: Apr.=5.8, May=5.7, June=7.1, July=7.6, Aug.=6.5, TOTAL=32.7"

Brand-Hybrid	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Mean 2 Yr.	Mean 3 Yr.
Early Maturing (90-100 days) +							
Pioneer Hybrid 3563(sx)	20.2	0.0	181.5*	202.3*	--	191.9	--
NC+ 3795(sx)	19.6	2.0	179.1*	--	119.1	--	--
Ciba 4393(sx)	19.2	0.6	169.0*	--	--	--	--
Merschman M-2106	21.4	0.3	163.4	--	--	--	--
Lewis 4311(sx)	20.7	1.4	163.0	196.3*	--	179.7	--
MFA 1822(sx)	18.6	1.6	162.5	164.9	--	163.7	--
Bo-Jac X299(sx)	20.0	1.9	158.7	--	--	--	--
Terra - TR 600E(sx)	23.1	2.0	155.3	191.7	--	173.5	--
Ciba 4372(sx)	20.0	2.8	155.2	--	--	--	--
Lynks 2588	20.5	1.4	153.8	--	--	--	--
Golden Harvest H-2390(sx)	20.2	0.7	153.4	186.8	105.9	170.1	148.7
Bo-Jac 135(sx)	19.9	1.3	151.9	--	--	--	--
Bo-Jac 335(sx)	19.4	2.3	151.3	--	--	--	--
NC+ 1991(sx)	19.8	1.3	151.1	--	--	--	--
Ciba 4282(sx)	19.9	2.1	149.9	--	--	--	--
Northrup King N4242(sx)	20.2	2.8	149.0	178.9	--	164.0	--
Ciba 4183(sx)	19.0	3.2	147.1	--	--	--	--
Pioneer Hybrid 3751(sx)	21.4	0.7	146.4	182.4	109.9	164.4	146.2
Golden Harvest H-2404(sx)	22.5	2.9	143.5	174.1	109.1	158.8	142.2
Lynks 2550	20.9	4.2	143.5	--	--	--	--
Merschman M-3097	20.0	1.5	132.6	--	--	--	--
Early Full Season (101-110 days) +							
Pioneer Hybrid 3417(sx)	21.4	3.4	182.9**	--	--	--	--
Dekalb DK591(sx)	21.3	1.8	169.7*	--	--	--	--
Dekalb DK580(sx)	20.9	1.9	163.1	--	--	--	--
Pioneer Hybrid 3525(sx)	20.3	1.6	162.3	--	--	--	--
Federal FX37E(sx)	20.0	3.0	161.1	--	--	--	--
Cargill 4277(sx)	19.4	1.8	148.6	--	--	--	--
Cargill 4327(sx)	22.8	2.1	147.5	184.4	110.2	166.0	147.4
Dekalb DK535(sx)	19.4	0.0	144.3	197.6*	121.2	171.0	154.4
Stine 1059(sx)	21.9	1.0	140.4	--	--	--	--
Dyna-Gro 5243(sx)	20.4	3.7	135.9	--	--	--	--
Dyna-Gro 5313-IPro(sx)	21.8	2.0	129.4	--	--	--	--
Cargill 3777(sx)	21.1	1.5	111.1	--	--	--	--
Mid Full Season (111-120 days) +							
Dyna-Gro 5470(sx)	20.4	6.4	174.9*	216.7**	--	195.8	--
Pioneer Hybrid 3394(sx)	20.4	2.8	171.4*	--	--	--	--
Full Season (121-130 days)							
Pioneer Hybrid 3245(sx)##	22.8	2.2	173.4*	--	--	--	--
TRIAL AVERAGE	20.6	2.0	154.9	182.4	115.2	168.6	150.8
L.S.D. AT .05	1.2	2.7	15.4	22.5	NS		
C.V.%	4.0		7.1	7.6	10.2		

** Highest yielding hybrid in the tests.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the tests.
-- Data not available.
Full season hybrid (120-130 day relative maturity), thinned to 20,000 plants/acre.
NS Not significant at the .05 level.
+ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.

TABLE 17. Performance of Early Maturing Corn Hybrids evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1991-93.

Planted: 27 May 1993
Harvested: 1 October 1993
Final Population: 28,000
Row Spacing: 30 inches
Soil Type: Parsons Silt Loam
Soil Test: pH=6.8, OM=2.1%, P=103, K=303

Fertilizer: N=260; P_2O_5=140; K_2O=180
Herbicide: Dual + Extrazine
Insecticide: Lorsban
Irrigation: 0.00 inches
Previous Crop: Soybean

Growing Season Rainfall: May=6.1, June=4.5, July=5.1, Aug.=2.3, Sept.=16.0, TOTAL=34.0"

Brand-Hybrid	Moisture (%) 1993	Lodging (%) 1993	Yield (Bu/Acre) 1993	1992	1991	Mean 2 Yr.	Mean 3 Yr.
Early Maturing (90-100 days) +							
Pioneer Hybrid 3751(sx)	14.7	18.2	74.6**	186.1	18.7*	130.4	93.1
Northrup King N4242(sx)	15.0	12.6	71.8*	187.4	--	129.6	--
MFA 1822(sx)	14.4	23.3	63.7*	186.9	--	125.3	--
Ciba 4282(sx)	15.7	7.7	62.2*	--	--	--	--
Ciba 4183(sx)	14.8	10.8	61.3*	--	--	--	--
Merschman M-2106	15.3	8.2	55.9	--	--	--	--
Merschman M-3097	14.4	20.8	55.5	--	--	--	--
Golden Harvest H-2404(sx)	16.2	38.3	52.4	182.3	19.6*	117.4	84.8
NC+ 3795(sx)	15.9	8.3	50.5	--	1.1	--	--
Golden Harvest H-2390(sx)	16.4	16.2	49.4	198.9	8.8	124.2	85.7
Terra - TR 600E(sx)	15.4	8.8	49.1	216.1*	--	132.6	--
Lynks 2550	15.3	18.8	46.6	--	--	--	--
Ciba 4372(sx)	16.4	13.5	46.0	--	--	--	--
Bo-Jac 135(sx)	16.7	38.4	41.1	--	--	--	--
NC+ 1991(sx)	16.3	41.4	40.0	--	--	--	--
Pioneer Hybrid 3563(sx)	17.9	14.4	39.9	228.6**	--	134.3	--
Lewis 4311(sx)	16.0	38.7	34.3	223.4*	--	128.9	--
Bo-Jac X299(sx)	15.5	8.5	32.0	--	--	--	--
Bo-Jac 335(sx)	16.9	26.1	26.7	--	--	--	--
Lynks 2588	16.4	12.6	20.4	--	--	--	--
Ciba 4393(sx)	17.1	8.3	18.9	--	--	--	--
Early Full Season (101-110 days) +							
Cargill 3777(sx)	16.1	54.2	47.8	--	--	--	--
Pioneer Hybrid 3525(sx)	17.9	51.1	47.5	--	--	--	--
Dekalb DK580(sx)	15.6	11.3	47.1	--	--	--	--
Cargill 4277(sx)	14.9	12.8	42.1	--	--	--	--
Dekalb DK535(sx)	15.0	12.0	41.4	201.6	6.6	121.5	83.2
Cargill 4327(sx)	15.0	30.9	40.8	203.6	3.9	122.2	82.8
Dyna-Gro 5313-IPro(sx)	15.6	22.6	40.4	--	--	--	--
Federal FX37E(sx)	15.0	7.5	40.1	--	--	--	--
Dyna-Gro 5243(sx)	15.6	35.7	37.9	--	--	--	--
Stine 1059(sx)	15.7	7.4	34.9	--	--	--	--
Pioneer Hybrid 3417(sx)	16.1	11.1	34.8	--	--	--	--
Dekalb DK591(sx)	17.1	8.7	27.5	--	--	--	--
Mid Full Season (111-120 days) +							
Pioneer Hybrid 3394(sx)	16.3	11.5	43.8	--	--	--	--
Dyna-Gro 5470(sx)	17.4	5.6	13.2	219.1*	--	116.2	--
Full Season (121-130 days)							
Pioneer Hybrid 3245(sx)##	17.9	10.3	26.8	--	--	--	--
TRIAL AVERAGE	15.9	19.1	43.3	195.5	8.6	119.4	82.5
L.S.D. AT .05	1.4	16.6	14.7	18.1	11.2		
C.V. %	5.5		24.9	6.6	87.2		

** Highest yielding hybrid in the tests.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
-- Data not available.
Full season hybrid (120-130 day relative maturity), thinned to 20,000 plants/acre.
+ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.

TABLE 18. Performance of Early Maturing Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm, near Columbia (Boone County) on the Agronomy Research Center and near Lamar (Barton County) on the Sherrell Bean Farm during 1993.

Marshall	Columbia	Lamar
Planted: 27 April 1993	Planted: 30 April 1993	Planted: 27 May 1993
Harvested: 30 September 1993	Harvested: 28 September 1993	Harvested: 1 October 1993
Growing Season Rainfall: 33.2"	Growing Season Rainfall: 32.7"	Growing Season Rainfall: 34.6"
Final Pop.: 28,000	Final Pop.: 28,000	Final Pop.: 28,000

Brand-Hybrid	Lodging (%)				Yield (Bu/Acre)			
	Marshall	Columbia	Lamar	Mean	Marshall	Columbia	Lamar	Mean
Early Maturing (90-100 days) +								
NC+ 3795(sx)	1.4	2.0	8.3	3.9	138.2*	179.1*	50.5	122.6*
Pioneer Hybrid 3563(sx)	2.7	0.0	14.4	5.7	141.5*	181.5*	39.9	121.0*
MFA 1822(sx)	22.3	1.6	23.3	15.7	123.1	162.5	63.7*	116.4*
Ciba 4282(sx)	2.2	2.1	7.7	4.0	129.8	149.9	62.2*	114.0
Merschman M-2106	14.5	0.3	8.2	7.7	122.0	163.4	55.9	113.8
Northrup King N4242(sx)	4.0	2.8	12.6	6.5	120.2	149.0	71.8*	113.7
Lewis 4311(sx)	14.2	1.4	38.7	18.1	137.9*	163.0	34.3	111.7
Terra - TR 600E(sx)	4.6	2.0	8.8	5.1	129.7	155.3	49.1	111.4
Pioneer Hybrid 3751(sx)	3.7	0.7	18.2	7.5	112.4	146.4	74.6**	111.1
Ciba 4372(sx)	2.7	2.8	13.5	6.3	128.4	155.2	46.0	109.9
Ciba 4393(sx)	3.4	0.6	8.3	4.1	138.3*	169.0*	18.9	108.7
Ciba 4183(sx)	19.1	3.2	10.8	11.0	110.4	147.1	61.3*	106.3
Golden Harvest H-2404(sx)	10.0	2.9	38.3	17.1	122.0	143.5	52.4	106.0
Golden Harvest H-2390(sx)	2.0	0.7	16.2	6.3	112.3	153.4	49.4	105.0
Lynks 2588	6.4	1.4	12.6	6.8	137.2*	153.8	20.4	103.8
Bo-Jac X299(sx)	2.0	1.9	8.5	4.1	119.3	158.7	32.0	103.3
NC+ 1991(sx)	2.4	1.3	41.4	15.0	117.6	151.1	40.0	102.9
Lynks 2550	2.7	4.2	18.8	8.6	117.8	143.5	46.6	102.6
Bo-Jac 135(sx)	10.4	1.3	38.4	16.7	110.2	151.9	41.1	101.1
Bo-Jac 335(sx)	2.3	2.3	26.1	10.2	124.2	151.3	26.7	100.7
Merschman M-3097	13.1	1.5	20.8	11.8	112.9	132.6	55.5	100.3
Early Full Season (101-110 days) +								
Pioneer Hybrid 3417(sx)	7.5	3.4	11.1	7.3	145.6*	182.9**	34.8	121.1*
Dekalb DK580(sx)	0.4	1.9	11.3	4.5	144.8*	163.1	47.1	118.3*
Dekalb DK591(sx)	3.1	1.8	8.7	4.5	151.2*	169.7*	27.5	116.1*
Pioneer Hybrid 3525(sx)	7.6	1.6	51.1	20.1	133.7	162.3	47.5	114.5*
Cargill 4277(sx)	1.3	1.8	12.8	5.3	134.0	148.6	42.1	108.2
Federal FX37E(sx)	0.8	3.0	7.5	3.8	121.4	161.1	40.1	107.5
Dekalb DK535(sx)	1.5	0.0	12.0	4.5	115.7	144.3	41.4	100.5
Stine 1059(sx)	1.7	1.0	7.4	3.4	120.9	140.4	34.9	98.7
Cargill 4327(sx)	10.1	2.1	30.9	14.4	105.9	147.5	40.8	98.1
Dyna-Gro 5313-IPro(sx)	5.4	2.0	22.6	10.0	120.8	129.4	40.4	96.9
Dyna-Gro 5243(sx)	5.7	3.7	35.7	15.0	107.6	135.9	37.9	93.8
Cargill 3777(sx)	2.6	1.5	54.2	19.4	86.6	111.1	47.8	81.8
Mid Full Season (111-120 days) +								
Pioneer Hybrid 3394(sx)	2.9	2.8	11.5	5.7	157.5**	171.4*	43.8	124.2**
Dyna-Gro 5470(sx)	3.8	6.4	5.6	5.3	142.3*	174.9*	13.2	110.1
Full Season (121-130 days)								
Pioneer Hybrid 3245(sx)##	3.2	2.2	10.3	5.2	127.0	173.4*	26.8	109.1
TRIAL AVERAGE	5.7	2.0	19.1	8.9	125.6	154.9	43.3	107.9
L.S.D. AT .05	10.8	2.7	16.6	7.6	21.8	15.4	14.7	10.1
C.V. %					12.4	7.1	24.9	11.7

** Highest yielding hybrid in the test.
* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
Full season hybrid (120-130 day relative maturity), thinned to 20,000 plants/acre.
+ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.

TABLE 19. SOURCE OF COMMERCIAL SEED CORN ENTERED IN THE 1993 MISSOURI YIELD TRIALS.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
AgraTech	660, 757, 787, 790, 810	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055 (317-335-3333)
AgriGene	AG7720, AG7885, AG7890, MC7372	Mycogen Plant Sciences, Rt. 2, Box 3A, Ames, IA 50010 (515-233-2400)
AgriPro	AP 638, AP 670, AP 674, AP 697, AP 808	AgriPro Seeds, Rt. 2, Hwy. 30 E, Ames, IA 50010 (515-232-0707)
Asgrow	RX783, RX801, RX775, RX896, RX897, RX899, RX919	Asgrow Seed Co., Box 460, Parkersburg, IA 50665 (800-373-4653)
Bo-Jac	135, 335, 386, 629, 925, 7195, X299, X394	Bo-Jac Hybrid Seed Co., Rt. 2, Box 11, Mt. Pulaski, IL 62548 (800-397-2069)
Burrus	BX58, BX64, BX74, BX76, BX80, BX87+	Burrus Bros. & Assoc. Growers, Rt. 1, Box 22, Arenzville, IL 62611 (217-997-5511)
Cargill	3777, 4277, 4327, 7697, 7897, 7997, 8177, 8327, 9027	Cargill Hybrid Seeds, Box 5645, Minneapolis, MN 55440 (612-475-6743)
Ciba	4183, 4282, 4372, 4393, 4494, 4581, 4651, 4742	Ciba Seed, Box 18300, 1500 Pine Croft, Greensboro, NC 27419 (919-547-1000)
Crow's	510, 667, 668, SL70	Crow's Hybrid Corn Co., Box 306, Milford, Il 60953(815-889-4151)
Dairyland	Stealth 1115, Stealth 1118, Stealth 1216	Dairyland Seed Co., Inc., Box 958, West Bend, WI 53095 (414-338-0163)
Dekalb	DK535, DK580, DK591, DK646, DK657, DK671, DK683, DK711, DK714, DK715	Dekalb Plant Genetics, 3100 Sycamore Road, DeKalb, IL 60115 (815-758-9323)
Delta Genetics	DG 186, DG 192, DG 195, X1911, X2121	Delta Genetics, Inc., Box 572, Blytheville, AR 72316 (501-763-1547)
Deltapine	4450, 4581, G-4673B	Delta and Pine Land Co., Box 157, Scott, MS 38772 (601-742-3351)
Dyna-Gro	5509, 5510	Tri-State Delta Chem., Inc., Box 89, Hwy 80W @ Coop Gin Rd., Rayville, LA 71269 (318-728-9041)
Dyna-Gro	5243, 5313IPRO, 5470, 5491IPRO, 5550, 5561, 5671	United Agri Products Seeds, 537 Atlas Ave., Madison, WI 53714 (800-362-8049)
Federal	FX37E	Federal Hybrids, 5420 35th Ave., Marion, IA 52302 (319-377-0730)
Fontanelle	6162, 6235, 6340	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044 (402-721-1410)
Golden Acres	T-E 7065, T-E 7070, T-E 9586	Taylor Evans Seed Co., Box 68, Tulia, TX 79088 (806-995-4111)
Golden Harvest	H-2390, H-2404, H-2525, H-2530, H-2544, H-2548, H-2592, H2641, Ex395, Ex552	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069 (402-779-2531)
Growers	4172, 4202	Growers Brand/Agrigenetics, L.P., PO Box 1656, Lubbock, TX 79408 (806-747-6225)
Hawkeye Hybrids	7378	Hawkeye Hybrids Inc., Rt. 3, Box 416, Pella, IA 50219 (515-628-3827)
Hubner	H3515, H3915, H9211	Hubner Seed Co., Inc., Rt. 1, Box 92, West Lebanon, IN 47991 (317-893-4428)
Hyperformer	HS 9484, HS 9487, HS 9502, HS 9610, HS 9773, HS 9822, HS 9843, HS 9848	Hyperformer Seed Co., PO Box 155, Romney, IN 47981 (317-538-2887)

TABLE 19. CONTINUED.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
Hyperformer	HS 9502, HS 9822, HS 9843, HS 9848, HS 9905, HS 9944, HS 9977	Hyperformer Seed Co., One HY Crop Row, Memphis, TN 38120 (901-756-1771)
ICI	8272, 8326, 8543, N8281	ICI Seed, Rt. 2, Box 142, Bowling Green, MO 63334 (314-324-5932)
ICI	8260, 8272, 8310, 8513	Zeneca Inc., 101 Tamara Lane, Searcy, AR 72143 (501-268-3088)
Jacques	8240, 9220	Mycogen Plant Sciences, 720 Saint Croix St., Prescott, WI 54021 (715-262-3223)
JMS	SX 1141, SX 1161, SX 1170, EX 112	J.M. Schultz Seed Co., 105 N Pine St., Box 211, Dieterich, IL 62424 (217-925-5212)
Lewis	3945, 4311, 4503, 4983, 5252, 5643, 5995, 6121, 7288, 8492	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376 (217-964-2131)
Lynks	2550, 2588, 2692, 2763, 2812, 2829, 2868	Lynks Seeds, Box 637, Marshalltown, IA 50158 (800-798-2676)
McAllister	8408, 9118, 9316	McAllister Seed Co., 1307 N. Broadway, Box 28, Mt. Pleasant, IA 52641 (319-385-2259)
Merschman	M-1117, M-2106, M-2118, M-2121, M-3097, M-3115, M-3116, M-3117, M-3120	Merschman Seed Co., 103 Ave. D., West Point, IA 52656 (319-837-6111)
MFA	1822, 3516, 4512, 5513, 5823, 6821	MFA Inc., 615 Locust, Columbia, MO 65201 (314-876-5345)
Middlekoop	452, 514, 516, 715, 717, 718	Middlekoop Seed Corn, Inc., Rt. 1, Box 46, Packwood, IA 52580 (319-695-3266)
M/W Genetics	G8445, G8460, G8700, G8775, SX 8AA	Midwest Seed Genetics, Inc., PO Box 518, Carroll, IA 51401 (800-369-8218)
Mycogen	7220	Mycogen Plant Sciences, 720 Saint Croix St., Prescott, WI 54021 (715-262-3223)
NC+	1991, 3795, 5037, 5963, 6414, 7117, 7304	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504 (402-467-2517)
NeCo	A100, A105, A107	JMB Associates, Rt. 2, Box 489, Garden City, MO 64747 (816-862-8751)
Northrup King	N4242, N6330, N6484, N7707, N7768, N7989	Northrup King Co., 1708 Brocking Rd., Rt. 6, Marion, IL 62959 (618-993-3947)
Ohlde	300, 359, 371, 510	Ohlde Seed Farm, Rt. 1, Box 63, Palmer, KS 66962 (913-692-4555)
Oro	166, 188	Oro Hybrids/Agrigenetics, LP, 624 27th St., Lubbock, TX 79404 (806-744-1408)
Pfister	3600, 3965	Pfister Seed Co., Box 187, El Paso, IL 61738 (309-527-6000)
Pioneer Hybrid	3140, 3156, 3162, 3163, 3245, 3279, 3317, 3394, 3417, 3525, 3563, 3751	Pioneer Hi-Bred Int., Inc., 1000 W. Jefferson, Tipton, IN 46072 (317-675-2101)
Querna	7220, 7300, 7730, 7870	Querna Seed Co., Inc., 14483 Hwy. 34W, Danville, IA 52623 (319-392-8383)
Rainbow	2142, 2175, 3168	Rainbow Seed Co., 1816 Hwy. 163, Oskaloosa, IA 52577 (800-373-9401)
Shissler	LG 25.61, LG26.21, LG 27.05	Shissler Seed Co., 22827 Shissler Rd., Elmwood, IL 61529 (309-742-2211)
SSI	USQ 866	Seed Source Inc., 106 4th St., Leland, MS 38756 (601-686-7855)

TABLE 19. CONTINUED.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
Stine	1059, 1118, 1123, 1154, 1179, 1181, 1195, 1220	Stine Seed Co., PO Box 231, Sheridan, IN 46069 (317-758-0800)
Terra	E1168, TR563E, TR600E, TR641E, TR700E, TR702E, TR1145, TR1167	Terra Int., Inc., 600 4th St., Sioux City, IA 51101 (712-233-3609)
Triumph	1270, 1452, 2010	Triumph Seed Co., Inc., Box 1050, 62 Bypass, Ralls, TX 79357 (806-253-2584)
US	6220, 6285, 6293	Unity Seeds, 803 N. 3rd St., Kentland, IN 47951 (219-474-5810)
Vigoro	V 1182, V 1194,	Vigoro Industries, 2007 W. Hwy 50, Fairview Hts., IL 62208 (618-624-5522)
Wilson	2330, E11961, Demand 116	Wilson Seeds, Inc., Box 391, Harlan, IA 51537 (712-755-3841)

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