

CORN 1992 Missouri Crop Performance



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MISSOURI CROP PERFORMANCE

1992

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 267 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 publications, 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 contained in this report 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 101 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 1992 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. Identification of widely-grown hybrids was made through a mail survey of companies which market hybrids in Missouri.



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. Fertilizer was applied at each site at the discretion of the farmer or the station manager. 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. Yield on popcorn was calculated from the data collected and reported in pounds per acre at a moisture content of 13.5 percent. Hybrid corn maturity information was provided by the company entering each hybrid. 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 and one full-season popcorn study in 1992. 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.

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. 1992 HYBRID CORN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	TEST TYPE	YIELD (BU/ACRE)		DATA TABLE
			RANGE	AVERAGE	
Barnard	121	Dryland	185-246	218	2
Novelty	121	Dryland	162-223	193	3
Marshall	113	Dryland	141-222	187	5
McKittrick	113	Dryland	178-242	209	6
Columbia	80	Irrigated	202-260	233	8
Laddonia	80	Irrigated	217-268	245	9
Nevada	51	Irrigated	179-239	217	11
Lamar	51	Irrigated	172-242	206	12
Oran	86	Irrigated	209-252	229	14
New Madrid	86	Irrigated	160-200	181	15
Marshall	23	Early Maturing	169-221	186*	17
Columbia	23	Early Maturing	163-217	182*	18
Lamar	23	Early Maturing	146-229	195*	19
Oran	30	Irrigated Popcorn	3331-7896	5287**	21

* Based on early maturing hybrids only (Check excluded).

** Yield is reported in pounds per acre.

During 1992 a cool spring caused some emergence and stand problems. The growing season of 1992 was characterized by below normal spring rainfall and above normal summer rainfall for the state. Yields were high in areas of timely rainfall patterns. Corn yields in 1992 were some of the best ever recorded in the state.

TABLE 2. Performance of Corn Hybrids evaluated near Barnard (Nodaway County) on the Meyer Brothers Farm during 1990-92.

Planted: 4 May 1992
 Harvested: 2 October 1992
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Nodaway Silt Loam
 Soil Test: pH=6.5, OM=1.8%, P=85, K=441

Fertilizer: N=175; P₂O₅=50; K₂O=80.
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=3.5, May=2.6, June=3.7, July=11.7, Aug.=0.5, TOTAL=22.00".

Brand-Hybrid	Mat- urity Group	Plants		Moisture		Lodging		Yield		
		(#/Acre)	(%)	(%)	(%)	(%)	(%)	(Bu/Acre)	(Bu/Acre)	(Bu/Acre)
Pioneer Hybrid 3394(sx)##	3	22100	22.1	1.1	0.6	--	246.2**	171.3	--	--
Cargill 7697(sx)	2	21400	23.2	0.0	1.2	--	245.3*	163.8	--	--
Lewis 3945(sx)	2	21600	22.5	0.0	--	--	239.2*	--	--	--
Asgrow RX809(sx)	2	22500	24.8	0.5	--	--	237.3*	--	--	--
Golden Harvest H-2544(sx)	1	22600	24.2	0.5	--	--	236.9*	--	--	--
Bo-Jac 925(sx)	3	22000	30.3	0.0	--	--	235.4*	--	--	--
Dairyland Stealth 1114(sx)	1	21900	24.0	0.0	--	--	234.8*	--	--	--
Middlekoop 615(sx)	2	22000	24.6	0.1	--	--	234.2*	--	--	--
Lewis 7288(sx)	2	21400	25.4	0.5	2.7	0.6	234.2*	192.0*	173.8*	--
Hawkeye Hybrids 7378(sx)	2	21500	25.1	0.4	--	--	234.0*	--	--	--
Crow's 488(sx)	1	21900	20.6	0.4	3.7	--	233.6*	160.6	--	--
Querna 7870(sx)	4	20800	23.8	0.0	2.3	1.2	233.6*	169.2	162.5*	--
Fontanelle 1845(sx)	1	21600	23.9	0.7	--	--	233.1*	--	--	--
Golden Harvest H-2525(sx)	1	20500	21.6	0.1	1.2	0.0	233.0*	181.2*	163.7*	--
Cargill 7877(sx)##	2	21700	23.6	0.1	--	1.5	232.8*	--	159.8	--
Triumph 2010(sx)	2	20500	27.6	0.1	--	--	232.5*	--	--	--
ICI/Garst 8543(sx)	2	21700	22.3	0.5	1.8	--	232.4*	190.0*	--	--
Lynks 2829(sx)	2	21400	25.6	1.8	2.1	--	232.2*	172.2	--	--
Dekalb DK711(sx)##	3	20400	26.2	0.5	1.7	0.0	231.8*	180.0*	151.5	--
McCurdy 7477(sx)	1	21300	24.9	0.0	1.0	0.6	231.6*	190.0*	165.5*	--
Crow's 667(sx)	2	21500	26.3	0.0	--	--	231.4*	--	--	--
Oro Exp.1008(sx)	3	21500	27.1	0.0	--	--	231.1*	--	--	--
Dekalb DK646(sx)##	2	21500	25.2	0.0	4.9	--	231.0*	175.3*	--	--
Gro Agri GSC 4192(sx)	2	22700	26.4	0.0	1.1	--	230.9*	172.1	--	--
NC+ 6485(sx)	2	20500	25.3	0.1	--	--	230.6*	--	--	--
Lynks 2868(sx)	3	21100	26.8	1.8	--	--	229.9*	--	--	--
Pfister 3965(sx)	2	22200	28.1	0.1	--	--	229.7*	--	--	--
Dairyland Stealth 1214(sx)	1	21600	23.7	0.0	--	--	229.4*	--	--	--
Bo-Jac 629(sx)	3	22100	28.0	0.6	--	--	229.3*	--	--	--
MFA 3516(sx)	2	21600	25.1	0.5	0.6	0.0	228.7*	177.4*	147.0	--
Asgrow RX899(sx)##	2	21600	27.2	0.1	1.1	--	228.5*	175.6*	--	--
McCurdy 7372(sx)	1	21100	25.9	1.1	1.6	--	227.2*	181.8*	--	--
NeCo A100(sx)	1	20600	21.8	0.5	--	--	227.0*	--	--	--
HyPerformer HS 9592(sx)	2	21400	24.3	0.4	--	--	226.8*	--	--	--
Dekalb DK671(sx)##	2	20900	26.7	0.6	1.1	--	226.0*	167.8	--	--
Shissler GR8 193(sx)	1	21100	25.8	0.0	0.5	--	226.0*	173.9	--	--
Agri Gene AG 7885(sx)	4	19300	27.6	0.6	--	--	225.8*	--	--	--
Cargill 7997(sx)	2	21100	27.1	0.0	1.1	--	225.5*	180.2*	--	--
Oro 190(sx)	2	21300	26.3	0.1	--	--	225.4*	--	--	--
Cargill 7177(sx)	2	22100	23.8	0.0	--	--	225.0*	--	--	--
Pioneer Hybrid 3317(sx)##	4	19200	26.7	0.0	0.6	--	224.8*	162.8	--	--
Pioneer Hybrid 3245(sx)##	4	17500	26.2	4.8	2.9	--	223.2*	177.2*	--	--
ICI 8382(sx)	2	21900	23.8	0.0	--	--	223.0*	--	--	--
Pfister 3600(sx)	2	21300	25.6	0.7	--	--	222.9*	--	--	--
AgriPro AP 670(sx)##	1	21000	25.4	0.1	--	--	222.5*	--	--	--
Northrup King N6330(sx)##	3	20300	21.9	0.0	2.2	1.0	221.8*	181.0*	158.2	--
Middlekoop 514(sx)	2	20800	23.4	0.0	--	--	221.8*	--	--	--
Jacques 7970(sx)	1	21000	25.3	0.0	--	--	221.1*	--	--	--
Asgrow RX802(sx)	2	21100	24.1	0.1	--	--	221.1*	--	--	--
AgriPro AP 605(sx)	1	21500	23.5	0.0	--	--	220.8*	--	--	--
Golden Harvest H-2641(sx)	2	21500	26.3	0.0	--	--	220.7*	--	--	--
Burrus BX76(sx)	3	20500	24.0	1.3	--	--	220.2*	--	--	--
Middlekoop 616(sx)	2	20500	24.6	0.0	--	--	220.2*	--	--	--
Ciba Geigy G-4583(sx)	2	19400	26.0	0.1	--	--	220.1*	--	--	--
McAllister SX8408(sx)	2	21600	23.8	0.0	0.5	0.5	220.0*	175.0*	157.3	--
HyPerformer HS 9773(sx)	2	18500	25.6	5.2	--	--	219.9*	--	--	--
Pioneer Hybrid 3162(sx)##	4	18400	27.9	1.5	1.7	0.6	219.9*	165.3	152.1	--
Middlekoop 516(sx)	2	19800	25.7	3.1	--	--	219.5*	--	--	--
NeCo A105(sx)	2	20300	25.6	0.7	0.0	0.5	219.5*	178.5*	155.6	--
Burrus BX58(sx)	2	21400	22.2	0.7	--	--	219.4*	--	--	--

TABLE 2. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)	1991	1990	(Bu/Acre)	1991	1990
		1992	1992	1992	1991	1990	1992	1991	1990
Triumph 1270(sx)	1	20900	23.0	0.0	2.8	0.5	219.1*	175.9*	165.8*
HyPerformer HS 9843(sx)	3	20800	25.7	0.7	--	--	218.7*	--	--
Middlekoop 452(sx)	2	21100	24.3	0.0	--	--	218.5*	--	--
Dyna-Gro 5550(sx)	1	19000	24.3	0.5	1.7	3.3	218.4*	174.3*	155.3
Northrup King N7768(sx)##	4	20800	26.3	2.4	1.2	--	218.3*	183.1*	--
Fontanelle 6235(spx)	1	20500	23.7	0.0	1.1	0.0	218.0*	178.9*	166.7*
Terra - TR 621E(sx)	3	20600	27.2	0.1	--	--	218.0*	--	--
Lynks 2812(sx)	2	21400	25.5	1.1	2.1	--	217.9*	175.9*	--
NC+ 4616(sx)	2	21500	23.3	0.1	2.2	--	217.6	171.8	--
Gro Agri GSC 4202(sx)	2	20500	29.8	0.1	--	--	217.5	--	--
AgriPro AP 674(sx)	1	19600	26.1	0.6	--	--	217.3	--	--
Agri Gene AG 7720(sx)	2	20500	27.1	0.6	0.6	1.2	217.1	169.3	168.6*
Terra - TR 1167(sx)	3	21600	27.2	0.0	--	--	216.6	--	--
NC+ 7304(sx)	2	21300	29.0	0.2	--	--	216.1	--	--
McCurdy 7366(sx)	1	20400	24.9	1.2	--	--	215.4	--	--
Terra - TR 641E(sx)	2	19800	25.9	0.0	--	--	215.3	--	--
Golden Harvest H-2485(sx)	1	21700	19.9	0.5	1.6	--	215.2	182.0*	--
Lewis 8492(sx)	2	19200	28.4	0.0	--	--	215.1	--	--
Golden Harvest H-2592(sx)	2	20100	26.3	0.6	2.7	--	215.0	177.6*	--
Ciba Geigy G-4502(sx)	1	20900	22.3	0.0	--	--	215.0	--	--
Gro Agri GSC 4172(sx)	2	21000	31.5	0.6	2.3	--	214.4	172.9	--
MFA 4512(sx)	2	21900	22.7	0.7	0.0	--	214.0	180.0*	--
MFA 6230X(sx)	2	22200	28.6	0.0	--	--	213.9	--	--
Fontanelle 6340(sx)	2	21500	26.7	0.1	0.5	--	213.4	169.4	--
Bo-Jac 7195(sx)	3	21500	29.6	0.1	--	--	213.4	--	--
Burrus BX73(sx)	3	20300	25.3	1.2	--	--	213.3	--	--
Terra - TR 1160(sx)	3	21000	24.0	0.6	--	--	212.5	--	--
HyPerformer HS 9502(sx)	1	20100	26.2	0.3	--	--	212.2	--	--
Stine 1180 Brand(sx)	2	19900	27.9	0.7	--	1.6	211.9	--	177.9**
AgriPro AP 638(sx)	1	20800	28.0	0.1	--	--	211.4	--	--
NC+ 5963(sx)	2	21100	25.2	1.1	0.0	--	211.2	176.2*	--
Pioneer Hybrid 3417(sx)	3	20300	22.4	0.1	0.0	--	210.2	176.7*	--
Querna 7670(sx)	3	18700	24.6	0.0	--	0.0	209.8	--	155.6
Dairyland Stealth 1217(sx)	1	19300	27.8	2.6	--	--	209.1	--	--
Shissler LG 2705(sx)	1	19500	27.1	2.2	--	--	208.8	--	--
McAllister SX9118(sx)	2	20100	25.3	0.0	0.0	0.0	208.4	186.9*	160.4
Merschman M-1117(sx)	1	19300	23.9	0.6	--	--	208.3	--	--
Lynks 2875(sx)	2	20500	26.5	0.0	1.6	--	207.2	176.6*	--
Crow's 669(sx)	2	21300	27.9	0.5	2.6	--	207.1	169.2	--
Merschman M-1114(sx)	1	21100	22.8	0.1	--	--	206.4	--	--
Lewis 5191(sx)	2	18700	26.1	1.6	--	--	206.4	--	--
Merschman M-2115(sx)	1	19200	23.5	0.1	--	--	205.6	--	--
Merschman M-2118(sx)	1	19600	24.8	1.2	--	--	205.2	--	--
Fontanelle 4435(sx)	1	19400	22.6	0.0	2.1	0.5	204.9	177.7*	166.8*
Pioneer Hybrid 3159(sx)##	4	18000	27.4	0.0	0.0	0.0	204.8	176.5*	163.4*
Shissler GR8 179(sx)	1	19800	23.0	0.1	--	--	203.7	--	--
Lewis 6121(sx)	2	19800	31.9	0.7	0.6	--	202.5	162.8	--
Cargill 8177(sx)	2	21400	26.9	1.3	--	--	202.4	--	--
MFA 4922(sx)	2	22500	23.1	0.0	1.0	--	202.0	180.7*	--
Wilson 2330(sx)	3	18500	29.9	0.0	0.6	--	201.8	157.0	--
Wilson 1890(sx)	1	20000	26.2	3.1	2.7	1.7	200.8	187.3*	150.1
McAllister SX9212(sx)	1	22100	23.4	0.0	--	--	200.3	--	--
Stine 1181 Brand(sx)	2	20100	29.1	0.0	--	--	199.0	--	--
Ciba Geigy G-4651(sx)	2	22000	27.7	0.0	--	--	197.2	--	--
HyPerformer HS 9704(sx)	2	20500	26.1	1.3	--	--	196.6	--	--
ICI 8326(sx)	2	20000	31.3	0.0	1.6	--	196.5	192.9**	--
Dyna-Gro 5470(sx)	1	19800	24.4	0.6	2.2	0.0	195.5	173.6	155.8
AgriPro AP 798(sx)	3	20600	27.7	0.0	--	--	193.9	--	--
Middlekoop 608(sx)	1	18300	19.5	0.7	--	--	189.9	--	--
Querna 7310(sx)	2	19500	21.7	0.0	--	--	189.0	--	--
Triumph 1630(sx)	1	18400	33.8	0.0	0.0	--	184.9	141.7	--
TRIAL AVERAGE		20718	25.5	0.5	1.3	0.6	218.4	174.3	153.9
L.S.D. AT .05		2413	3.2	2.0	NS	1.7	28.4	18.9	17.3
C.V. %		7.3	7.7				8.1	6.7	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.

Widely-grown hybrid.

NS Not significant at the .05 level.

TABLE 3. Performance of Corn Hybrids evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1990-92.

Planted: 1 May 1992
 Harvested: 1 October 1992
 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=150; P₂O₅=60; K₂O=100.
 Herbicide: Bicept + Extrazine.
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=2.8, May=0.9, June=0.4, July=12.7, Aug.=1.6, TOTAL=18.4".

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)		Moisture (%)		Lodging (%)			Yield (Bu/Acre)		
		1992	1992	1992	1991	1990	1992	1991	1990		
Cargill 8177(sx)	2	21500	30.2	0.1	--	--	223.1**	--	--		
Pfister 3600(sx)	2	20600	28.6	0.0	--	--	221.6*	--	--		
Pfister 3965(sx)	2	22000	30.9	0.0	--	--	219.1*	--	--		
Dekalb DK646(sx)##	2	22600	33.1	0.0	1.7	--	218.5*	9.8	--		
Bo-Jac 629(sx)	3	21400	30.4	0.6	--	--	217.4*	--	--		
Gro Agri GSC 4202(sx)	2	21300	30.5	0.0	--	--	216.1*	--	--		
Middlekoop 615(sx)	2	22000	27.1	0.0	--	--	214.8*	--	--		
Terra - TR 1167(sx)	3	22500	30.3	0.1	--	--	213.7*	--	--		
HyPerformer HS 9843(sx)	3	22600	30.4	0.0	--	--	213.1*	--	--		
Agri Gene AG 7885(sx)	4	20200	32.6	0.0	--	--	212.8*	--	--		
Middlekoop 452(sx)	2	22200	28.8	0.0	--	--	212.8*	--	--		
Dairyland Stealth 1214(sx)	1	22800	29.3	0.5	--	--	212.7*	--	--		
Lynks 2812(sx)	2	22000	29.9	0.6	0.6	--	212.4*	30.7	--		
Fontanelle 1845(sx)	1	22900	29.2	0.4	--	--	211.7*	--	--		
Bo-Jac 925(sx)	3	22500	34.6	0.1	--	--	211.0*	--	--		
Pioneer Hybrid 3162(sx)##	4	21000	32.0	0.0	1.7	0.0	210.7*	44.0	155.6*		
McCurdy 7372(sx)	1	21300	30.9	0.7	3.8	--	210.5*	71.9	--		
Golden Harvest H-2544(sx)	1	20900	27.8	0.0	--	--	210.2*	--	--		
Lewis 3945(sx)	2	21400	28.7	0.0	--	--	209.2*	--	--		
Cargill 7997(sx)	2	22400	29.8	0.0	5.7	--	209.2*	50.8	--		
Golden Harvest H-2592(sx)	2	21500	27.6	1.1	2.7	--	208.8*	27.6	--		
NC + 7304(sx)	2	23100	34.0	1.1	--	--	208.3*	--	--		
Lynks 2868(sx)	3	21300	29.5	0.6	--	--	208.2*	--	--		
Dekalb DK711(sx)##	3	20800	31.9	0.1	1.1	3.9	207.5*	23.7	139.4		
HyPerformer HS 9773(sx)	2	21000	31.7	0.0	--	--	207.1*	--	--		
Asgrow RX899(sx)##	2	21200	32.7	0.0	3.4	--	207.0*	113.9*	--		
McAllister SX8408(sx)	2	21600	29.2	0.0	0.5	0.0	206.7*	23.9	150.1		
Lewis 8492(sx)	2	22100	31.3	0.5	--	--	205.7*	--	--		
Pioneer Hybrid 3394(sx)##	3	21700	24.6	0.0	0.5	--	205.6*	76.6	--		
Middlekoop 616(sx)	2	21700	29.4	0.0	--	--	205.2*	--	--		
Merschamn M-2118(sx)	1	22000	29.3	2.2	--	--	204.4*	--	--		
NeCo A105(sx)	2	21500	27.6	0.1	0.6	0.5	204.2*	29.5	140.7		
NC + 4616(sx)	2	21800	26.8	0.0	1.0	--	204.1*	39.8	--		
Pioneer Hybrid 3245(sx)##	4	22300	29.6	0.0	4.8	--	204.0*	58.7	--		
Triumph 2010(sx)	2	21300	33.2	0.0	--	--	203.8*	--	--		
HyPerformer HS 9592(sx)	2	21600	27.9	1.2	--	--	203.1*	--	--		
Shissler LG 2705(sx)	1	20500	31.3	0.0	--	--	202.6*	--	--		
Merschman M-1117(sx)	1	21600	26.6	0.0	--	--	202.4*	--	--		
Cargill 7697(sx)	2	22000	25.9	0.5	7.1	--	201.9*	37.1	--		
Hawkeye Hybrids 7378(sx)	2	22700	27.1	0.0	--	--	201.4*	--	--		
AgriPro AP 638(sx)	1	21600	29.5	1.1	--	--	201.3*	--	--		
Asgrow RX809(sx)	2	21700	31.7	0.0	--	--	201.3*	--	--		
NC + 6485(sx)	2	22200	28.6	0.0	--	--	201.0*	--	--		
HyPerformer HS 9502(sx)	1	22300	29.7	0.0	--	--	200.2*	--	--		
Terra - TR 1160(sx)	3	21600	27.2	1.1	--	--	200.2*	--	--		
AgriPro AP 670(sx)##	1	22300	27.7	0.0	--	--	200.2*	--	--		
Jacques 7970(sx)	1	22300	29.7	0.0	--	--	198.4*	--	--		
Triumph 1270(sx)	1	22100	25.8	0.1	0.6	0.0	198.3*	51.0	142.8		
MFA 4512(sx)	2	22300	29.2	0.0	0.0	--	198.1*	29.5	--		
Triumph 1630(sx)	1	21900	36.0	0.1	16.9	--	197.7*	109.3*	--		
Golden Harvest H-2641(sx)	2	22000	31.7	0.0	--	--	197.5*	--	--		
MFA 6230X(sx)	2	21700	34.8	0.6	--	--	196.9*	--	--		
Pioneer Hybrid 3317(sx)##	4	21600	32.1	0.0	2.2	--	196.6*	101.7*	--		
Burrus BX76(sx)	3	21400	25.0	0.0	--	--	196.4*	--	--		
Lewis 7288(sx)	2	21200	27.7	0.6	2.3	0.5	196.1*	17.4	168.6**		
Fontanelle 6235(spx)	1	20900	27.3	0.6	0.0	0.0	196.1*	25.7	150.9		
AgriPro AP 674(sx)	1	20100	30.7	1.2	--	--	196.0*	--	--		
Pioneer Hybrid 3417(sx)	3	20900	25.3	0.0	0.6	--	196.0*	106.9*	--		
Oro Exp. I008(sx)	3	22600	29.2	2.2	--	--	195.6*	--	--		
Lewis 6121(sx)	2	21400	33.7	0.6	1.0	--	195.3*	75.1	--		

TABLE 3. Continued.

Brand-Hybrid	Mat- urity Group	Plants		Moisture			Lodging			Yield (Bu/Acre)		
		(#/Acre)	(%)	1992	1991	1990	1992	1991	1990	1992	1991	1990
NeCo A100(sx)	1	21100	25.0	0.0	--	--	195.0*	--	--			
Crow's 488(sx)	1	22400	25.5	0.1	20.9	--	193.9*	65.1	--			
Stine 1181 Brand(sx)	2	21800	31.5	0.1	--	--	193.7*	--	--			
Asgrow RX802(sx)	2	22000	27.5	0.0	--	--	192.1	--	--			
Burrus BX58(sx)	2	21700	26.4	0.0	--	--	191.5	--	--			
Stine 1180 Brand(sx)	2	20400	28.2	0.5	--	0.0	191.2	--	--	149.8		
Middlekoop 514(sx)	2	22400	30.5	1.1	--	--	190.7	--	--	--		
ICI 8326(sx)	2	21500	26.3	0.1	1.2	--	190.7	24.3	--	--		
MFA 4922(sx)	2	20800	24.5	0.0	0.0	--	190.6	42.6	--	--		
NC+ 5963(sx)	2	22300	26.7	0.0	0.5	--	189.8	14.3	--	--		
Northrup King N6330(sx)##	3	22200	26.1	0.6	2.2	1.8	189.2	30.8	--	128.5		
Merschman M-2115(sx)	1	19600	27.7	0.0	--	--	188.9	--	--	--		
Dyna-Gro 5550(sx)	1	20800	27.7	0.0	2.7	1.0	188.6	30.8	--	140.4		
ICI 8382(sx)	2	22500	28.5	0.0	--	--	188.2	--	--	--		
Dekalb DK671(sx)##	2	21200	33.1	2.3	1.1	--	188.0	16.1	--	--		
Ciba Geigy G-4583(sx)	2	21900	28.2	0.0	--	--	187.3	--	--	--		
ICI/Garst 8543(sx)	2	21500	26.8	0.1	2.8	--	187.2	45.1	--	--		
Crow's 669(sx)	2	21500	30.4	0.6	1.8	--	187.1	39.9	--	--		
Lewis 5191(sx)	2	20400	27.3	0.7	--	--	187.1	--	--	--		
Dyna-Gro 5470(sx)	1	21100	26.5	0.6	1.6	1.1	187.0	45.0	--	143.6		
AgriPro AP 605(sx)	1	21600	27.2	0.0	--	--	186.9	--	--	--		
Golden Harvest H-2485(sx)	1	22000	24.1	0.0	1.0	--	185.9	59.4	--	--		
Ciba Geigy G-4502(sx)	1	21400	26.6	0.0	--	--	185.1	--	--	--		
Pioneer Hybrid 3159(sx)##	4	20400	29.6	0.0	2.2	1.1	185.1	94.1*	--	159.0*		
HyPerformer HS 9704(sx)	2	22400	29.2	0.5	--	--	184.9	--	--	--		
Querna 7670(sx)	3	20000	27.4	0.0	--	3.1	184.7	--	--	133.1		
Lynks 2829(sx)	2	20500	34.3	0.0	2.3	--	184.4	112.1*	--	--		
Shissler GR8 179(sx)	1	21800	26.0	0.0	--	--	182.2	--	--	--		
Querna 7870(sx)	4	21100	29.7	0.1	1.6	0.0	182.2	23.9	--	143.1		
McAllister SX9212(sx)	1	21500	26.1	0.0	--	--	181.4	--	--	--		
Crow's 667(sx)	2	22400	31.3	0.6	--	--	181.2	--	--	--		
Querna 7310(sx)	2	22600	25.1	0.0	--	--	180.9	--	--	--		
Fontanelle 4435(sx)	1	21800	27.9	0.6	0.0	0.5	180.3	40.5	--	148.4		
Bo-Jac 7195(sx)	3	20900	33.9	0.0	--	--	180.3	--	--	--		
Golden Harvest H-2525(sx)	1	21300	21.8	0.0	2.6	0.0	179.8	31.9	--	149.0		
McCurdy 7477(sx)	1	21700	27.6	0.0	3.4	0.0	179.7	33.7	--	153.5		
AgriPro AP 798(sx)	3	22500	31.4	1.1	--	--	179.3	--	--	--		
Middlekoop 516(sx)	2	21300	33.0	0.0	--	--	179.0	--	--	--		
Ciba Geigy G-4651(sx)	2	21600	31.3	0.6	--	--	178.3	--	--	--		
Wilson 1890(sx)	1	21400	30.9	0.0	1.6	0.0	175.7	41.2	--	134.3		
Cargill 7877(sx)##	2	20800	26.6	1.2	--	6.9	175.1	--	--	143.8		
MFA 3516(sx)	2	22400	28.2	0.6	1.7	1.6	174.8	33.9	--	134.0		
Cargill 7177(sx)	2	21400	25.2	0.0	--	--	174.4	--	--	--		
Gro Agri GSC 4172(sx)	2	20600	31.9	0.7	3.4	--	174.1	70.6	--	--		
Fontanelle 6340(sx)	2	22100	28.6	0.5	1.1	--	173.5	48.9	--	--		
Dairyland Stealth 1217(sx)	1	19000	31.2	0.0	--	--	173.2	--	--	--		
Shissler GR8 193(sx)	1	22100	26.8	0.0	4.5	--	171.7	39.0	--	--		
Wilson 2330(sx)	3	20000	37.8	0.0	7.6	--	170.8	114.7***	--	--		
McCurdy 7366(sx)	1	20600	27.5	0.1	--	--	170.6	--	--	--		
Oro 190(sx)	2	22200	28.5	1.2	--	--	169.9	--	--	--		
Burrus BX73(sx)	3	22000	29.2	0.6	--	--	168.7	--	--	--		
Gro Agri GSC 4192(sx)	2	22700	28.4	0.1	4.4	--	167.3	16.6	--	--		
Dairyland Stealth 1114(sx)	1	21100	26.7	0.7	--	--	166.4	--	--	--		
Terra - TR 621E(sx)	3	21700	30.5	0.0	--	--	165.8	--	--	--		
McAllister SX9118(sx)	2	22600	28.1	0.0	1.2	0.0	165.4	4.9	--	133.9		
Merschman M-1114(sx)	1	21000	24.9	0.0	--	--	165.2	--	--	--		
Agri Gene AG 7720(sx)	2	20600	28.5	0.0	0.5	0.5	165.2	16.7	--	147.4		
Middlekoop 608(sx)	1	21600	22.4	0.1	--	--	165.0	--	--	--		
Northrup King N7768(sx)##	4	22700	28.9	0.5	1.6	--	163.3	36.5	--	--		
Terra - TR 641E(sx)	2	21400	28.4	0.6	--	--	162.2	--	--	--		
Lynks 2875(sx)	2	22100	29.9	0.5	0.0	--	162.0	44.8	--	--		
TRIAL AVERAGE		21599	29.0	0.3	2.4	1.3	192.7	40.3	--	140.3		
L.S.D. AT .05		1693	3.0	1.3	5.4	2.5	30.5	27.8	--	14.8		
C.V. %		4.9	6.4				9.8	42.8	--	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.

Widely-grown hybrid.

TABLE 4. Performance of Corn Hybrids evaluated at two north Missouri locations (Barnard and Novelty) during 1992.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Barnard	Novelty	Mean	Barnard	Novelty	Mean
Barnard Planted: 4 May 1992 Harvested: 2 October 1992 Growing Season Rainfall: 22.0 inches. Planted Population: 23200				Novelty Planted: 1 May 1992. Harvested: 1 October 1992 Growing Season Rainfall: 18.4 inches. Planted Population: 23200			
Pioneer Hybrid 3394(sx)##	3	1.1	0.0	0.6	246.2**	205.6*	225.9**
Dekalb DK646(sx)##	2	0.0	0.0	0.0	231.0*	218.5*	224.8*
Middlekoop 615(sx)	2	0.1	0.0	0.0	234.2*	214.8*	224.5*
Pfister 3965(sx)	2	0.1	0.0	0.0	229.7*	219.1*	224.4*
Lewis 3945(sx)	2	0.0	0.0	0.0	239.2*	209.2*	224.2*
Cargill 7697(sx)	2	0.0	0.5	0.2	245.3*	201.9*	223.6*
Golden Harvest H-2544(sx)	1	0.5	0.0	0.2	236.9*	210.2*	223.6*
Bo-Jac 629(sx)	3	0.6	0.6	0.6	229.3*	217.4*	223.4*
Bo-Jac 925(sx)	3	0.0	0.1	0.0	235.4*	211.0*	223.2*
Fontanelle 1845(sx)	1	0.7	0.4	0.6	233.1*	211.7*	222.4*
Pfister 3600(sx)	2	0.7	0.0	0.4	222.9*	221.6*	222.2*
Dairyland Stealth 1214(sx)	1	0.0	0.5	0.2	229.4*	212.7*	221.0*
Dekalb DK711(sx)##	3	0.5	0.1	0.3	231.8*	207.5*	219.6*
Agri Gene AG 7885(sx)	4	0.6	0.0	0.3	225.8*	212.8*	219.3*
Asgrow RX809(sx)	2	0.5	0.0	0.2	237.3*	201.3*	219.3*
Lynks 2868(sx)	3	1.8	0.6	1.2	229.9*	208.2*	219.0*
McCurdy 7372(sx)	1	1.1	0.7	0.9	227.2*	210.5*	218.8*
Triumph 2010(sx)	2	0.1	0.0	0.0	232.5*	203.8*	218.2*
Asgrow RX899(sx)##	2	0.1	0.0	0.0	228.5*	207.0*	217.8*
Hawkeye Hybrids 7378(sx)	2	0.4	0.0	0.2	234.0*	201.4*	217.7*
Cargill 7997(sx)	2	0.0	0.0	0.0	225.5*	209.2*	217.4*
Gro Agri GSC 4202(sx)	2	0.1	0.0	0.0	217.5	216.1*	216.8*
HyPerformer HS 9843(sx)	3	0.7	0.0	0.4	218.7*	213.1*	215.9*
NC+ 6485(sx)	2	0.1	0.0	0.0	230.6*	201.0*	215.8*
Middlekoop 452(sx)	2	0.0	0.0	0.0	218.5*	212.8*	215.6*
Pioneer Hybrid 3162(sx)##	4	1.5	0.0	0.8	219.9*	210.7*	215.3*
Terra - TR 1167(sx)	3	0.0	0.1	0.0	216.6	213.7*	215.2*
Lynks 2812(sx)	2	1.1	0.6	0.8	217.9*	212.4*	215.2*
Lewis 7288(sx)	2	0.5	0.6	0.6	234.2*	196.1*	215.2*
HyPerformer HS 9592(sx)	2	0.4	1.2	0.8	226.8*	203.1*	215.0*
Crow's 488(sx)	1	0.4	0.1	0.2	233.6*	193.9*	213.8*
Pioneer Hybrid 3245(sx)##	4	4.8	0.0	2.4	223.2*	204.0*	213.6*
HyPerformer HS 9773(sx)	2	5.2	0.0	2.6	219.9*	207.1*	213.5*
Oro Exp. 1008(sx)	3	0.0	2.2	1.1	231.1*	195.6*	213.4*
McAllister SX8408(sx)	2	0.0	0.0	0.0	220.0*	206.7*	213.4*
Cargill 8177(sx)	2	1.3	0.1	0.7	202.4	223.1**	212.8*
Middlekoop 616(sx)	2	0.0	0.0	0.0	220.2*	205.2*	212.7*
NC+ 7304(sx)	2	0.2	1.1	0.6	216.1	208.3*	212.2*
Golden Harvest H-2592(sx)	2	0.6	1.1	0.8	215.0	208.8*	211.9*
NeCo A105(sx)	2	0.7	0.1	0.4	219.5*	204.2*	211.8*
AgriPro AP 670(sx)##	1	0.1	0.0	0.0	222.5*	200.2*	211.4*
NeCo A100(sx)	1	0.5	0.0	0.2	227.0*	195.0*	211.0*
NC+ 4616(sx)	2	0.1	0.0	0.0	217.6	204.1*	210.8*
Pioneer Hybrid 3317(sx)##	4	0.0	0.0	0.0	224.8*	196.6*	210.7*
Lewis 8492(sx)	2	0.0	0.5	0.2	215.1	205.7*	210.4*
ICI/Garst 8543(sx)	2	0.5	0.1	0.3	232.4*	187.2	209.8*
Jacques 7970(sx)	1	0.0	0.0	0.0	221.1*	198.4*	209.8*
Golden Harvest H-2641(sx)	2	0.0	0.0	0.0	220.7*	197.5*	209.1*
Triumph 1270(sx)	1	0.0	0.1	0.0	219.1*	198.3*	208.7*
Lynks 2829(sx)	2	1.8	0.0	0.9	232.2*	184.4	208.3*
Burrus BX76(sx)	3	1.3	0.0	0.6	220.2*	196.4*	208.3*
Querna 7870(sx)	4	0.0	0.1	0.0	233.6*	182.2	207.9*
Dekalb DK671(sx)##	2	0.6	2.3	1.4	226.0*	188.0	207.0*
Fontanelle 6235(spx)	1	0.0	0.6	0.3	218.0*	196.1*	207.0*
AgriPro AP 674(sx)	1	0.6	1.2	0.9	217.3	196.0*	206.6*
Asgrow RX802(sx)	2	0.1	0.0	0.0	221.1*	192.1	206.6*
Terra - TR 1160(sx)	3	0.6	1.1	0.8	212.5	200.2*	206.4*
Golden Harvest H-2525(sx)	1	0.1	0.0	0.0	233.0*	179.8	206.4*
AgriPro AP 638(sx)	1	0.1	1.1	0.6	211.4	201.3*	206.4*
Crow's 667(sx)	2	0.0	0.6	0.3	231.4*	181.2	206.3*
HyPerformer HS 9502(sx)	1	0.3	0.0	0.2	212.2	200.2*	206.2*

TABLE 4. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Barnard	Novelty	Mean	Barnard	Novelty	Mean
Middlekoop 514(sx)	2	0.0	1.1	0.6	221.8*	190.7	206.2*
MFA 4512(sx)	2	0.7	0.0	0.4	214.0	198.1*	206.0*
Shissler LG 2705(sx)	1	2.2	0.0	1.1	208.8	202.6*	205.7*
ICI 8382(sx)	2	0.0	0.0	0.0	223.0*	188.2	205.6*
McCurdy 7477(sx)	1	0.0	0.0	0.0	231.6*	179.7	205.6*
Northrup King N6330(sx)##	3	0.0	0.6	0.3	221.8*	189.2	205.5*
Merschman M-1117(sx)	1	0.6	0.0	0.3	208.3	202.4*	205.4*
MFA 6230X(sx)	2	0.0	0.6	0.3	213.9	196.9*	205.4*
Burrus BX58(sx)	2	0.7	0.0	0.4	219.4*	191.5	205.4*
Merschman M-2118(sx)	1	1.2	2.2	1.7	205.2	204.4*	204.8*
Cargill 7877(sx)##	2	0.1	1.2	0.6	232.8*	175.1	204.0*
AgriPro AP 605(sx)	1	0.0	0.0	0.0	220.8*	186.9	203.8
Ciba Geigy G-4583(sx)	2	0.1	0.0	0.0	220.1*	187.3	203.7
Dyna-Gro 5550(sx)	1	0.5	0.0	0.2	218.4*	188.6	203.5
Pioneer Hybrid 3417(sx)	3	0.1	0.0	0.0	210.2	196.0*	203.1
MFA 3516(sx)	2	0.5	0.6	0.6	228.7*	174.8	201.8
Stine 1180 Brand(sx)	2	0.7	0.5	0.6	211.9	191.2	201.6
Golden Harvest H-2485(sx)	1	0.5	0.0	0.2	215.2	185.9	200.6
Dairyland Stealth 1114(sx)	1	0.0	0.7	0.4	234.8*	166.4	200.6
NC+ 5963(sx)	2	1.1	0.0	0.6	211.2	189.8	200.5
Ciba Geigy G-4502(sx)	1	0.0	0.0	0.0	215.0	185.1	200.0
Cargill 7177(sx)	2	0.0	0.0	0.0	225.0*	174.4	199.7
Middlekoop 516(sx)	2	3.1	0.0	1.6	219.5*	179.0	199.2
Gro Agri GSC 4192(sx)	2	0.0	0.1	0.0	230.9*	167.3	199.1
Lewis 6121(sx)	2	0.7	0.6	0.6	202.5	195.3*	198.9
Shissler GR8 193(sx)	1	0.0	0.0	0.0	226.0*	171.7	198.8
Oro 190(sx)	2	0.1	1.2	0.6	225.4*	169.9	197.6
Querna 7670(sx)	3	0.0	0.0	0.0	209.8	184.7	197.2
Merschman M-2115(sx)	1	0.1	0.0	0.0	205.6	188.9	197.2
Crow's 669(sx)	2	0.5	0.6	0.6	207.1	187.1	197.1
Bo-Jac 7195(sx)	3	0.1	0.0	0.0	213.4	180.3	196.8
Lewis 5191(sx)	2	1.6	0.7	1.2	206.4	187.1	196.8
Stine 1181 Brand(sx)	2	0.0	0.1	0.0	199.0	193.7*	196.4
MFA 4922(sx)	2	0.0	0.0	0.0	202.0	190.6	196.3
Pioneer Hybrid 3159(sx)##	4	0.0	0.0	0.0	204.8	185.1	195.0
Gro Agri GSC 4172(sx)	2	0.6	0.7	0.6	214.4	174.1	194.2
ICI 8326(sx)	2	0.0	0.1	0.0	196.5	190.7	193.6
Fontanelle 6340(sx)	2	0.1	0.5	0.3	213.4	173.5	193.4
McCurdy 7366(sx)	1	1.2	0.1	0.6	215.4	170.6	193.0
Shissler GR8 179(sx)	1	0.1	0.0	0.0	203.7	182.2	193.0
Fontanelle 4435(sx)	1	0.0	0.6	0.3	204.9	180.3	192.6
Terra - TR 621E(sx)	3	0.1	0.0	0.0	218.0*	165.8	191.9
Triumph 1630(sx)	1	0.0	0.1	0.0	184.9	197.7*	191.3
Agri Gene AG 7720(sx)	2	0.6	0.0	0.3	217.1	165.2	191.2
Dyna-Gro 5470(sx)	1	0.6	0.6	0.6	195.5	187.0	191.2
Dairyland Stealth 1217(sx)	1	2.6	0.0	1.3	209.1	173.2	191.2
Burrus BX73(sx)	3	1.2	0.6	0.9	213.3	168.7	191.0
Northrup King N7768(sx)##	4	2.4	0.5	1.4	218.3*	163.3	190.8
McAllister SX9212(sx)	1	0.0	0.0	0.0	200.3	181.4	190.8
HyPerformer HS 9704(sx)	2	1.3	0.5	0.9	196.6	184.9	190.8
Terra - TR 641E(sx)	2	0.0	0.6	0.3	215.3	162.2	188.8
Wilson 1890(sx)	1	3.1	0.0	1.6	200.8	175.7	188.2
Ciba Geigy G-4651(sx)	2	0.0	0.6	0.3	197.2	178.3	187.8
McAllister SX9118(sx)	2	0.0	0.0	0.0	208.4	165.4	186.9
AgriPro AP 798(sx)	3	0.0	1.1	0.6	193.9	179.3	186.6
Wilson 2330(sx)	3	0.0	0.0	0.0	201.8	170.8	186.3
Merschman M-1114(sx)	1	0.1	0.0	0.0	206.4	165.2	185.8
Querna 7310(sx)	2	0.0	0.0	0.0	189.0	180.9	185.0
Lynks 2875(sx)	2	0.0	0.5	0.2	207.2	162.0	184.6
Middlekoop 608(sx)	1	0.7	0.1	0.4	189.9	165.0	177.4
TRIAL AVERAGE		0.5	0.3	0.4	218.4	192.7	205.6
L.S.D. AT .05					28.4	30.5	22.0
C.V. %		2.0	1.3	1.2	8.1	9.8	9.4

** Highest Yielding Hybrid in the test.

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

Widely-grown hybrid.

TABLE 5. Performance of Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1990-92.

Planted: 29 April 1992
 Harvested: 28 September 1992
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=6.1, OM=3.9%, P=93, K=519

Fertilizer: N=285; P₂O₅=100; K₂O=100.
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Corn

Growing Season Rainfall: Apr.=3.0, May=0.9, June=2.4, July=8.4, Aug.=2.4, TOTAL=17.1".

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)			Yield (Bu/Acre)		
				1992	1991	1990	1992	1991	1990
Cargill 8177(sx)	2	21800	20.9	0.5	--	--	221.9**	--	--
HyPerformer HS 9773(sx)	2	21500	22.2	1.8	--	--	220.3*	--	--
Pioneer Hybrid 3162(sx)##	4	18100	24.1	0.0	0.6	0.0	218.5*	183.8*	160.0
HyPerformer HS 9502(sx)	1	23200	21.8	0.0	--	--	217.0*	--	--
AgriPro AP 674(sx)	1	17600	22.1	0.0	--	--	215.4*	--	--
Pioneer Hybrid 3245(sx)##	4	19500	23.4	1.7	0.0	--	214.0*	201.7**	--
NC + 5037(sx)	2	20600	20.4	0.0	1.1	--	212.6*	186.5*	--
Merschamm M-2118(sx)	1	19200	21.5	0.0	--	--	212.3*	--	--
Bo-Jac 629(sx)	3	20700	22.3	1.1	--	--	209.6*	--	--
Pioneer Hybrid 3317(sx)##	4	17800	21.5	0.0	1.2	--	209.6*	171.8	--
Golden Harvest H-2544(sx)	1	20700	22.1	0.6	0.6	--	208.1*	173.4	--
Cargill 7697(sx)	2	21300	20.1	1.7	3.2	--	207.9*	166.2	--
Golden Harvest H-2485(sx)	1	22200	18.4	0.0	--	--	207.9*	--	--
Golden Harvest H-2592(sx)	2	20400	21.6	0.0	2.2	--	206.7*	167.6	--
Asgrow RX899(sx)##	2	21700	22.4	0.0	2.2	--	205.1*	171.6	--
Cargill 7997(sx)	2	20500	20.8	0.6	2.9	--	204.4*	168.8	--
Middlekoop 516(sx)	2	20700	21.1	0.6	2.4	--	204.3*	170.8	--
Golden Harvest H-2525(sx)	1	21300	19.6	0.6	0.6	1.6	204.3*	176.4	172.7*
ICI 8260(sx)	3	19300	23.7	2.7	--	--	203.8*	--	--
Pioneer Hybrid 3417(sx)	3	19900	20.3	0.0	0.6	--	203.4*	180.4*	--
Fontanelle 6235(spx)	1	18300	20.6	0.0	--	0.5	202.6*	--	176.3*
Asgrow RX809(sx)	2	20800	22.1	0.7	--	--	201.6*	--	--
McAllister SX8408(sx)	2	20800	20.8	0.5	--	0.0	201.4*	--	169.5*
Seed Source USN 316(sx)	2	16900	24.4	5.7	4.6	--	201.0*	161.3	--
MFA 6230X(sx)	2	18700	25.2	0.0	--	--	199.1*	--	--
AgriPro AP 638(sx)	1	19100	21.2	0.0	--	--	198.6*	--	--
NC + 6414(sx)##	2	18300	21.9	3.0	1.6	2.2	198.2*	182.8*	181.2*
Bo-Jac 925(sx)	3	21200	23.2	0.0	--	--	197.9*	--	--
Pioneer Hybrid 3394(sx)##	3	20300	18.9	0.0	0.6	--	197.9*	173.5	--
Fontanelle 1845(sx)	1	19500	20.7	0.0	--	--	197.4*	--	--
Stine 1181 Brand(sx)	2	22100	21.7	1.3	--	--	197.2*	--	--
NeCo A100(sx)	1	20700	19.5	0.0	--	--	197.1*	--	--
Dyna-Gro 5470(sx)	1	19800	19.7	0.7	1.8	0.0	196.8*	174.9	171.4*
Hübner H-9015(sx)	2	18500	22.2	0.0	--	--	195.7*	--	--
MFA 3516(sx)	2	21100	20.6	1.1	1.6	0.6	195.5*	176.2	170.8*
HyPerformer HS 9843(sx)	3	19400	22.2	0.8	--	--	195.5*	--	--
Crow's 667(sx)	2	17400	22.2	0.7	--	--	194.7*	--	--
AgriPro AP 670(sx)##	1	19900	20.2	0.0	--	--	194.6*	--	--
Mity Mo 161(sx)	2	22000	20.4	0.6	--	--	194.0*	--	--
Middlekoop 514(sx)	2	16900	21.6	1.4	--	--	193.7*	--	--
Lewis 5252(sx)	2	19700	22.7	0.0	--	--	193.3*	--	--
JMS SX 1170(sx)	2	19600	23.2	0.0	--	--	193.2*	--	--
Lewis 8492(sx)	2	20700	22.8	1.0	--	--	193.1*	--	--
Mity Mo 171(sx)	2	20000	21.6	0.5	--	--	191.9	--	--
Fontanelle 4435(sx)	1	21500	19.2	0.0	--	--	191.6	--	--
Dairyland Stealth 1114(sx)	1	20800	20.8	0.0	--	--	191.0	--	--
NeCo A105(sx)	2	19300	21.0	0.0	--	0.0	190.9	--	159.5
Golden Harvest H-2641(sx)	2	20200	22.6	0.5	--	--	190.8	--	--
Fontanelle 6340(sx)	2	19400	21.7	0.0	2.4	--	190.0	170.3	--
Mity Mo 181(sx)	2	21100	20.5	0.0	--	--	190.0	--	--
HyPerformer HS 9704(sx)	2	20600	22.4	1.2	--	--	189.8	--	--
Burrus BX94(sx)	4	21300	21.6	0.7	1.1	0.0	189.7	179.5*	180.6*
NC + 6485(sx)	2	18600	21.6	0.6	--	--	189.6	--	--
Ciba Geigy G-4651(sx)	2	23100	22.7	0.0	--	--	189.1	--	--
Terra - TR 1167(sx)	3	19100	22.1	0.8	--	--	189.1	--	--
JMS SX 1171(sx)	2	19400	22.4	0.0	1.2	--	188.5	165.4	--
Dekalb DK646(sx)##	2	19300	21.7	1.1	0.5	--	188.2	190.1*	--
Hubner H-9111(sx)	1	21300	21.4	0.0	--	--	187.7	--	--

TABLE 5. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)	1991	1990	1992	1991	1990
Dyna-Gro 5550(sx)	1	17500	20.8	0.0	1.2	1.1	187.6	176.0	175.5*
Asgrow RX802(sx)	2	20106	21.5	0.0	--	--	186.9	--	--
Burrus BX73(sx)	3	19200	19.8	0.0	--	--	186.9	--	--
Middlekoop 615(sx)	2	20700	23.5	0.0	--	--	186.6	--	--
NC + 7304(sx)	2	20500	22.3	1.2	2.8	--	185.8	176.3	--
Ciba Geigy G-4631(sx)	2	18600	22.0	0.0	--	--	185.3	--	--
Vigoro KE 1182(sx)	4	19100	22.9	0.0	--	--	185.3	--	--
Burrus BX87+(sx)	4	18500	22.3	0.0	--	--	185.1	--	--
Cargill 7877(sx)##	2	18600	19.8	5.4	--	--	184.8	--	--
Middlekoop 452(sx)	2	20100	20.3	0.0	0.0	0.0	184.8	159.7	168.6*
Mity Mo 151(sx)	2	19500	20.2	0.0	--	--	183.8	--	--
Crow's 488(sx)	1	20900	19.6	0.0	--	--	183.1	--	--
AgriPro AP 798(sx)	3	17600	22.9	0.8	--	--	182.8	--	--
Middlekoop 616(sx)	2	17900	21.0	0.0	--	--	181.7	--	--
Hubner H-9117(sx)	2	17600	21.6	0.0	--	--	180.8	--	--
JMS SX 1161(sx)	2	19900	21.1	0.7	--	--	180.7	--	--
Northrup King N6330(sx)##	3	16500	20.4	0.0	0.6	--	180.2	184.3*	--
Merschman M-2115(sx)	1	19400	20.8	0.7	--	--	179.4	--	--
Dekalb DK671(sx)##	2	17800	22.2	2.0	2.1	--	179.1	163.4	--
JMS SX 1190(sx)	2	16100	20.2	0.0	--	--	178.5	--	--
MFA 4512(sx)	2	20500	19.7	0.0	0.6	--	178.1	183.6*	--
ICI 8326(sx)	2	18200	21.1	0.0	0.6	--	177.6	177.8	--
Lewis 6642(sx)	2	17700	21.6	0.0	--	--	175.7	--	--
Kitchen KSC 5120(sx)	2	19300	20.0	0.6	--	--	175.2	--	--
Vigoro KE 1162(sx)	4	19000	23.7	0.0	--	--	175.1	--	--
Ciba Geigy G-4583(sx)	2	18000	21.6	0.0	--	--	174.5	--	--
Hubner H-3315(sx)	2	19100	21.7	0.0	1.1	0.5	174.2	161.4	168.2*
ICI 8513(sx)	2	18800	19.7	1.1	--	--	174.0	--	--
JMS SX 1141(sx)	2	20200	22.2	0.0	0.6	--	173.9	178.8	--
McAllister SX9118(sx)	2	19900	21.1	0.5	--	2.1	173.8	--	151.9
Lewis 5952(sx)	2	18100	22.3	0.0	--	--	173.8	--	--
Hubner H-9115(sx)	2	17400	21.5	0.0	0.0	--	173.6	164.5	--
Burrus BX93(sx)	4	19200	22.8	0.0	--	--	172.8	--	--
MFA 4922(sx)	2	19100	21.2	0.0	1.2	--	172.5	160.5	--
NC + 6959(sx)	2	16400	23.3	0.7	--	--	172.5	--	--
Merschman M-1117(sx)	1	18600	20.2	0.0	--	--	172.3	--	--
Jacques 8510(sx)	2	17700	21.9	0.0	2.5	1.7	172.0	165.5	181.8*
Bo-Jac 7195(sx)	3	23200	23.2	1.0	--	--	171.7	--	--
Dekalb DK711(sx)##	3	19400	21.8	1.3	4.4	0.6	171.0	188.0*	161.4
AgriPro AP 605(sx)	1	20600	20.8	0.0	--	--	170.9	--	--
JMS SX 1181(sx)	2	19000	22.4	0.0	1.1	0.0	170.5	153.9	157.6
Middlekoop 608(sx)	1	18300	18.8	0.7	--	--	170.4	--	--
Dairyland Stealth 1217(sx)	1	19900	22.2	0.7	--	--	170.0	--	--
Lewis 7288(sx)	2	20500	21.6	0.0	0.5	1.1	167.1	173.2	169.4*
Terra - TR 1160(sx)	3	19300	20.4	1.2	--	--	166.5	--	--
Stine 1180 Brand(sx)	2	19700	22.2	0.0	--	--	166.2	--	--
Kitchen KSC 5162(sx)	2	20800	20.8	0.0	--	--	165.9	--	--
Crow's 670(sx)	1	19200	23.9	1.2	--	--	164.8	--	--
Jacques 8210(sx)	2	20000	20.2	0.6	0.5	0.5	164.5	197.6*	169.1*
Hubner H-9215(sx)	2	17900	22.8	0.6	--	--	161.3	--	--
Terra - TR 621E(sx)	3	20800	21.6	0.5	--	--	159.8	--	--
Mity Mo 191(sx)	2	19400	23.6	0.0	--	--	156.5	--	--
Northrup King N7768(sx)##	4	19000	22.1	0.6	0.6	--	156.0	168.3	--
Terra TR 641E(sx)	2	17700	21.8	0.0	--	--	152.5	--	--
Merschman M-1114(sx)	1	17800	21.9	0.0	--	--	140.6	--	--
TRIAL AVERAGE		19562	21.5	0.5	1.5	0.9	187.3	171.3	161.1
L.S.D. AT .05		NS	1.3	2.2	2.6	2.3	28.8	22.5	20.5
C.V. %		12.3	3.9				9.6	8.1	7.9

** Highest Yielding Hybrid in the test.

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

-- Data not available.

Widely-grown hybrid.

NS Not significant at the .05 level.

TABLE 6. Performance of Corn Hybrids evaluated near McKittrick (Montgomery County) on the Terry Loehnig Farm during 1991-92 and near Marthasville (Warren County) on the Jim Hellebusch Farm during 1990.

Planted: 13 April 1992
 Harvested: 25 September 1992
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Winfield Silt Loam
 Soil Test: pH=7.1, OM=1.4%, P=115, K=580

Fertilizer: N=270; P₂O₅=0; K₂O=0.
 Herbicide: Dual + ExtraZine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=2.8, May=1.4, June=1.9, July=6.3, Aug.=2.1, TOTAL=14.5".

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)			(Bu/Acre)		
		1992	1992	1992	1991	1990	1992	1991	1990
HyPerformer HS 9773(sx)	2	19300	20.0	3.8	--	--	241.8**	--	--
Asgrow RX899(sx)##	2	21400	20.4	0.0	0.5	--	239.9*	204.7*	--
Bo-Jac 7195(sx)	3	20900	19.6	0.0	--	--	237.1*	--	--
Middlekoop 615(sx)	2	22100	18.5	0.0	--	--	233.7*	--	--
Pioneer Hybrid 3245(sx)##	4	18900	20.6	0.0	0.6	--	229.4*	224.0**	--
NC+ 7304(sx)	2	19900	19.9	0.7	0.0	--	227.7*	193.6	--
Cargill 7997(sx)	2	20600	20.1	0.0	0.6	--	226.6*	188.0	--
HyPerformer HS 9502(sx)	1	20300	19.2	0.0	--	--	226.1*	--	--
Bo-Jac 925(sx)	3	20100	19.9	0.7	--	--	225.7*	--	--
Burrus BX87+(sx)	4	19000	20.7	1.3	--	--	225.7*	--	--
Crow's 488(sx)	1	21100	18.9	0.6	--	--	225.6*	--	--
Kitchen KSC 5162(sx)	2	21600	20.5	0.0	--	--	224.8*	--	--
Dairyland Stealth 1217(sx)	1	21000	20.5	0.1	--	--	224.8*	--	--
Seed Source USN 316(sx)	2	19500	21.7	7.9	0.0	--	224.6*	170.6	--
HyPerformer HS 9843(sx)	3	21500	20.7	0.0	--	--	224.5*	--	--
NC+ 5037(sx)	2	21300	19.1	0.0	0.6	--	224.0*	180.6	--
Crow's 670(sx)	1	19300	22.4	0.0	--	--	223.3*	--	--
Dekalb DK646(sx)##	2	20100	19.8	0.1	0.6	--	222.7*	197.4	--
Fontanelle 6340(sx)	2	21300	20.5	0.3	0.0	--	221.0*	189.7	--
Burrus BX93(sx)	4	20100	21.4	0.0	--	--	220.6*	--	--
Dekalb DK671(sx)##	2	18400	20.6	0.1	0.0	--	219.7*	184.3	--
NC+ 6414(sx)##	2	19900	19.4	0.6	0.0	0.6	219.7*	176.2	166.2
JMS SX 1170(sx)	2	18400	22.3	0.0	--	--	219.3*	--	--
Jacques 8510(sx)	2	20800	21.8	0.5	0.5	0.0	219.2*	203.0*	189.5*
Hubner H-9015(sx)	2	19800	20.8	0.0	--	--	218.8*	--	--
Fontanelle 4435(sx)	1	21300	19.2	0.0	--	--	218.7*	--	--
Lewis 5252(sx)	2	19900	18.7	0.0	--	--	218.4	--	--
MFA 6230X(sx)	2	17400	22.7	2.2	--	--	218.2	--	--
Vigoro KE 1182(sx)	4	19500	20.5	0.1	--	--	218.1	--	--
Mity Mo 161(sx)	2	20800	18.0	0.6	--	--	218.0	--	--
JMS SX 1141(sx)	2	18800	18.4	0.7	0.0	--	217.5	191.4	--
MFA 4512(sx)	2	22000	18.0	0.0	0.0	--	216.7	179.3	--
McAllister SX9118(sx)	2	19300	20.0	0.0	--	0.0	216.2	--	184.8
Pioneer Hybrid 3317(sx)##	4	19800	18.9	0.0	0.5	--	215.9	200.3	--
Asgrow RX802(sx)	2	21100	19.9	0.1	--	--	215.7	--	--
Hubner H-3315(sx)	2	20400	18.3	0.0	0.6	0.0	215.6	186.8	187.2
Mity Mo 191(sx)	2	19900	20.4	0.0	--	--	215.1	--	--
Dekalb DK711(sx)##	3	18500	21.2	0.6	0.6	0.6	215.1	186.8	201.4*
Bo-Jac 629(sx)	3	19200	21.0	0.0	--	--	214.5	--	--
Cargill 7877(sx)##	2	19600	19.4	0.0	--	--	214.2	--	--
Middlekoop 516(sx)	2	18000	20.4	0.0	0.6	--	213.7	186.4	--
Lewis 8492(sx)	2	19900	20.6	0.0	--	--	213.1	--	--
Mity Mo 171(sx)	2	19200	19.1	0.0	--	--	213.0	--	--
Middlekoop 616(sx)	2	19200	20.3	0.0	--	--	212.7	--	--
Pioneer Hybrid 3394(sx)##	3	20400	18.1	0.0	0.0	--	212.7	198.9	--
Merschman M-2118(sx)	1	18300	19.4	0.1	--	--	212.3	--	--
Fontanelle 1845(sx)	1	18800	18.8	0.0	--	--	212.2	--	--
Cargill 8177(sx)	2	19300	19.7	0.0	--	--	212.1	--	--
Hubner H-9111(sx)	1	20900	19.0	0.0	--	--	212.0	--	--
Fontanelle 6235(spx)	1	20600	19.2	0.4	--	0.0	211.3	--	198.0*
AgriPro AP 670(sx)	1	20000	18.7	0.7	--	--	210.6	--	--
Mity Mo 151(sx)	2	20500	19.3	0.1	--	--	210.5	--	--
ICI 8260(sx)	3	18200	21.0	0.0	--	--	209.8	--	--
Golden Harvest H-2641(sx)	2	19600	21.1	0.0	--	--	209.6	--	--
Lewis 7288(sx)	2	18000	21.0	0.0	0.0	0.0	208.9	207.5*	181.4
Merschman M-2115(sx)	1	18400	19.4	0.0	--	--	207.9	--	--
Vigoro KE 1162(sx)	4	18700	20.8	0.0	--	--	207.8	--	--
NeCo A100(sx)	1	20400	17.5	0.0	--	--	207.9	--	--

TABLE 6. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)	1991	1990	(Bu/Acre)	1991	1990
		1992	1992	1992	1991	1990	1992	1991	1990
Dyna-Gro 5470(sx)	1	20100	17.3	0.0	1.2	0.5	207.6	184.0	190.0*
Golden Harvest H-2592(sx)	2	19000	19.8	0.0	0.0	--	207.4	193.3	--
Burrus BX94(sx)	4	20000	20.3	0.1	0.0	0.0	207.3	190.4	209.1*
Asgrow RX809(sx)	2	20300	19.6	0.6	--	--	206.9	--	--
Dyna-Gro 5550(sx)	1	20800	19.3	0.0	0.0	0.0	206.3	191.0	183.0
Hübner H-9215(sx)	2	19200	20.5	0.0	--	--	206.2	--	--
Terra - TR 641E(sx)	2	19000	20.8	0.1	--	--	206.0	--	--
AgriPro AP 674(sx)	1	19400	20.8	0.0	--	--	205.9	--	--
MFA 3516(sx)	2	19600	19.2	0.6	0.0	0.0	205.6	185.5	204.5*
Northrup King N7768(sx)##	4	19000	20.4	0.7	0.0	--	205.1	204.0*	--
Stine 1180 Brand(sx)	2	19300	20.2	0.1	--	--	205.0	--	--
Burrus BX73(sx)	3	21100	18.0	0.0	--	--	204.7	--	--
AgriPro AP 798(sx)	3	19800	21.3	0.0	--	--	204.7	--	--
Middlekoop 514(sx)	2	18200	19.5	0.0	--	--	204.6	--	--
Cargill 7697(sx)	2	18200	19.6	0.1	1.3	--	204.3	172.4	--
Ciba Geigy G-4631(sx)	2	19000	21.0	0.0	--	--	204.1	--	--
ICI 8513(sx)	2	18900	18.4	0.1	--	--	203.9	--	--
Mity Mo 181(sx)	2	18700	19.0	0.0	--	--	203.7	--	--
Ciba Geigy G-4651(sx)	2	20300	21.0	0.0	--	--	203.7	--	--
Jacques 8210(sx)	2	16300	19.0	0.0	1.2	0.5	203.6	194.3	196.4*
Crow's 667(sx)	2	20400	19.9	0.0	--	--	203.2	--	--
Ciba Geigy G-4583(sx)	2	21000	20.2	0.0	--	--	202.9	--	--
ICI 8326(sx)	2	16900	18.3	0.0	1.2	--	202.8	215.4*	--
Middlekoop 452(sx)	2	20000	18.8	0.1	0.0	0.0	202.7	167.3	197.0*
HyPerformer HS 9704(sx)	2	19600	19.8	0.0	--	--	202.5	--	--
Northrup King N6330(sx)##	3	17700	18.4	0.1	1.1	--	201.2	182.5	--
Dairyland Stealth 1114(sx)	1	20800	17.9	0.0	--	--	201.2	--	--
JMS SX 1171(sx)	2	18700	21.8	0.0	0.1	--	200.5	203.3*	--
Pioneer Hybrid 3162(sx)##	4	15000	21.5	1.4	0.0	1.0	200.5	203.0*	185.8
NC+ 6485(sx)	2	20500	20.3	0.0	--	--	200.2	--	--
Hubner H-9117(sx)	2	18300	19.8	0.0	--	--	199.6	--	--
AgriPro AP 638(sx)	1	17700	20.8	0.0	--	--	198.5	--	--
NeCo A105(sx)	2	16700	18.9	0.1	--	0.0	198.5	--	172.1
NC+ 6959(sx)	2	18400	20.8	0.0	--	--	197.8	--	--
JMS SX 1161(SX)	2	18200	20.3	0.0	--	--	197.6	--	--
Pioneer Hybrid 3417(sx)	3	19500	18.2	0.0	0.7	--	197.2	174.6	--
Terra - TR 1160(sx)	3	19800	21.0	0.0	--	--	196.7	--	--
Terra - TR 621E(sx)	3	20100	21.4	0.1	--	--	196.4	--	--
AgriPro AP 605(sx)	1	17400	17.7	0.0	--	--	195.5	--	--
Lewis 5952(sx)	2	15700	21.3	0.1	--	--	195.5	--	--
Golden Harvest H-2525(sx)	1	20100	18.2	0.0	0.0	0.0	195.4	191.2	164.4
Stine 1181 Brand(sx)	2	18000	21.5	0.0	--	--	193.9	--	--
JMS SX 1181(SX)	2	17500	20.4	0.8	0.0	0.0	193.6	186.2	182.5
Golden Harvest H-2544(sx)	1	19800	18.4	0.0	0.0	--	193.4	193.7	--
McAllister SX8408(sx)	2	15200	18.8	0.1	--	0.0	191.9	--	191.7*
Hubner H-9115(sx)	2	18500	19.8	0.0	0.0	--	191.4	175.3	--
Terra - TR 1167(sx)	3	16700	20.6	0.0	--	--	191.2	--	--
Merschman M-1117(sx)	1	18700	18.7	0.0	--	--	189.0	--	--
MFA 4922(sx)	2	20400	19.0	0.0	0.0	--	188.4	163.7	--
Kitchen KSC 5120(sx)	2	19200	17.6	0.0	--	--	187.5	--	--
JMS SX 1190(sx)	2	17900	17.7	1.0	--	--	187.4	--	--
Lewis 6642(sx)	2	18200	19.7	0.0	--	--	186.9	--	--
Golden Harvest H-2485(sx)	1	19900	17.1	0.0	--	--	181.3	--	--
Merschman M-1114(sx)	1	19400	18.5	0.0	--	--	178.0	--	--
Middlekoop 608(sx)	1	19000	17.4	0.0	--	--	177.9	--	--
TRIAL AVERAGE		19377	19.8	0.3	0.4	0.3	209.0	186.5	181.8
L.S.D. AT .05		2955	1.3	2.1	1.4	NS	23.3	21.5	20.1
C.V. %		9.6	4.2				7.0	7.2	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.

Widely-grown hybrid.

NS Not significant at the .05 level.

TABLE 7. Performance of Corn Hybrids evaluated at two central Missouri locations (Marshall and McKittrick) during 1992.

Marshall
Planted: 29 April 1992
Harvested: 28 September 1992
Growing Season Rainfall: 17.1 inches.
Planted Population: 23200

McKittrick
Planted: 13 April 1992
Harvested: 25 September 1992
Growing Season Rainfall: 14.5 inches.
Planted Population: 23200

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Marshall	McKittrick	Mean	Marshall	McKittrick	Mean
HyPerformer HS 9773(sx)	2	1.8	3.8	2.8	220.3*	241.8**	231.0**
Asgrow RX899(sx)##	2	0.0	0.0	0.0	205.1*	239.9*	222.5*
Pioneer Hybrid 3245(sx)##	4	1.7	0.0	0.8	214.0*	229.4*	221.7*
HyPerformer HS 9502(sx)	1	0.0	0.0	0.0	217.0*	226.1*	221.6*
NC + 5037(sx)	2	0.0	0.0	0.0	212.6*	224.0*	218.3*
Cargill 8177(sx)	2	0.5	0.0	0.2	221.9**	212.1	217.0*
Cargill 7997(sx)	2	0.6	0.0	0.3	204.4*	226.6*	215.5*
Pioneer Hybrid 3317(sx)##	4	0.0	0.0	0.0	209.6*	215.9	212.8*
Seed Source USN 316(sx)	2	5.7	7.9	6.8	201.0*	224.6*	212.8*
Merschman M-2118(sx)	1	0.0	0.1	0.0	212.3*	212.3	212.3*
Bo-Jac 629(sx)	3	1.1	0.0	0.6	209.6*	214.5	212.0*
Bo-Jac 925(sx)	3	0.0	0.7	0.4	197.9*	225.7*	211.8*
AgriPro AP 674(sx)	1	0.0	0.0	0.0	215.4*	205.9	210.6
Middlekoop 615(sx)	2	0.0	0.0	0.0	186.6	233.7*	210.2
HyPerformer HS 9843(sx)	3	0.8	0.0	0.4	195.5*	224.5*	210.0
Pioneer Hybrid 3162(sx)##	4	0.0	1.4	0.7	218.5*	200.5	209.5
Middlekoop 516(sx)	2	0.6	0.0	0.3	204.3*	213.7	209.0
NC + 6414(sx)##	2	3.0	0.6	1.8	198.2*	219.7*	209.0
MFA 6230X(sx)	2	0.0	2.2	1.1	199.1*	218.2	208.6
Hubner H-9015(sx)	2	0.0	0.0	0.0	195.7*	218.8*	207.2
Golden Harvest H-2592(sx)	2	0.0	0.0	0.0	206.7*	207.4	207.0
Fontanelle 6235(spx)	1	0.0	0.4	0.2	202.6*	211.3	207.0
NC + 7304(sx)	2	1.2	0.7	1.0	185.8	227.7*	206.8
ICI 8260(sx)	3	2.7	0.0	1.4	203.8*	209.8	206.8
JMS SX 1170(sx)	2	0.0	0.0	0.0	193.2*	219.3*	206.2
Cargill 7697(sx)	2	1.7	0.1	0.9	207.9*	204.3	206.1
Mity Mo 161(sx)	2	0.6	0.6	0.6	194.0*	218.0	206.0
Lewis 5252(sx)	2	0.0	0.0	0.0	193.3*	218.4	205.8
Fontanelle 6340(sx)	2	0.0	0.3	0.2	190.0	221.0*	205.5
Burrus BX87+(sx)	4	0.0	1.3	0.6	185.1	225.7*	205.4
Dekalb DK646(sx)##	2	1.1	0.1	0.6	188.2	222.7*	205.4
Pioneer Hybrid 3394(sx)##	3	0.0	0.0	0.0	197.9*	212.7	205.3
Fontanelle 4435(sx)	1	0.0	0.0	0.0	191.6	218.7*	205.2
Fontanelle 1845(sx)	1	0.0	0.0	0.0	197.4*	212.2	204.8
Crow's 488(sx)	1	0.0	0.6	0.3	183.1	225.6*	204.4
Bo-Jac 7195(sx)	3	1.0	0.0	0.5	171.7	237.1*	204.4
Asgrow RX809(sx)	2	0.7	0.6	0.6	201.6*	206.9	204.2
Lewis 8492(sx)	2	1.0	0.0	0.5	193.1*	213.1	203.1
AgriPro AP 670(sx)##	1	0.0	0.7	0.4	194.6*	210.6	202.6
NeCo A100(sx)	1	0.0	0.0	0.0	197.1*	207.9	202.5
Mity Mo 171(sx)	2	0.5	0.0	0.2	191.9	213.0	202.4
Dyna-Gro 5470(sx)	1	0.7	0.0	0.4	196.8*	207.6	202.2
Vigoro KE 1182(sx)	4	0.0	0.1	0.0	185.3	218.1	201.7
Asgrow RX802(sx)	2	0.0	0.1	0.0	186.9	215.7	201.3
Golden Harvest H-2544(sx)	1	0.6	0.0	0.3	208.1*	193.4	200.8
MFA 3516(sx)	2	1.1	0.6	0.8	195.5*	205.6	200.6
Pioneer Hybrid 3417(sx)	3	0.0	0.0	0.0	203.4*	197.2	200.3
Golden Harvest H-2641(sx)	2	0.5	0.0	0.2	190.8	209.6	200.2
Golden Harvest H-2525(sx)	1	0.6	0.0	0.3	204.3*	195.4	199.8
Hubner H-9111(sx)	1	0.0	0.0	0.0	187.7	212.0	199.8
Cargill 7877(sx)##	2	5.4	0.0	2.7	184.8	214.2	199.5
Dekalb DK671(sx)##	2	2.0	0.1	1.0	179.1	219.7*	199.4
Middlekoop 514(sx)	2	1.4	0.0	0.7	193.7*	204.6	199.2
Crow's 667(sx)	2	0.7	0.0	0.4	194.7*	203.2	199.0
AgriPro AP 638(sx)	1	0.0	0.0	0.0	198.6*	198.5	198.6
Burrus BX94(sx)	4	0.7	0.1	0.4	189.7	207.3	198.5
Dairyland Stealth 1217(sx)	1	0.7	0.1	0.4	170.0	224.8*	197.4
MFA 4512(sx)	2	0.0	0.0	0.0	178.1	216.7	197.4
Mity Mo 151(sx)	2	0.0	0.1	0.0	183.8	210.5	197.2

TABLE 7. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Marshall	McKittrick	Mean	Marshall	McKittrick	Mean
Middlekoop 616(sx)	2	0.0	0.0	0.0	181.7	212.7	197.2
Dyna-Gro 5550(sx)	1	0.0	0.0	0.0	187.6	206.3	197.0
Mity Mo 181(sx)	2	0.0	0.0	0.0	190.0	203.7	196.8
Burrus BX93(sx)	4	0.0	0.0	0.0	172.8	220.6*	196.7
McAllister SX8408(sx)	2	0.5	0.1	0.3	201.4*	191.9	196.6
Ciba Geigy G-4651(sx)	2	0.0	0.0	0.0	189.1	203.7	196.4
HyPerformer HS 9704(sx)	2	1.2	0.0	0.6	189.8	202.5	196.2
Dairyland Stealth 1114(sx)	1	0.0	0.0	0.0	191.0	201.2	196.1
Burrus BX73(sx)	3	0.0	0.0	0.0	186.9	204.7	195.8
JMS SX 1141(sx)	2	0.0	0.7	0.4	173.9	217.5	195.7
Jacques 8510(sx)	2	0.0	0.5	0.2	172.0	219.2*	195.6
Stine 1181 Brand(sx)	2	1.3	0.0	0.6	197.2*	193.9	195.6
Kitchen KSC 5162(sx)	2	0.0	0.0	0.0	165.9	224.8*	195.4
McAllister SX9118(sx)	2	0.5	0.0	0.2	173.8	216.2	195.0
NC+ 6485(sx)	2	0.6	0.0	0.3	189.6	200.2	194.9
Hubner H-3315(sx)	2	0.0	0.0	0.0	174.2	215.6	194.9
Ciba Geigy G-4631(sx)	2	0.0	0.0	0.0	185.3	204.1	194.7
NeCo A105(sx)	2	0.0	0.1	0.0	190.9	198.5	194.7
Golden Harvest H-2485(sx)	1	0.0	0.0	0.0	207.9*	181.3	194.6
JMS SX 1171(sx)	2	0.0	0.0	0.0	188.5	200.5	194.5
Crow's 670(sx)	1	1.2	0.0	0.6	164.8	223.3*	194.0
Middlekoop 452(sx)	2	0.0	0.1	0.0	184.8	202.7	193.8
AgriPro AP 798(sx)	3	0.8	0.0	0.4	182.8	204.7	193.8
Merschman M-2115(sx)	1	0.7	0.0	0.4	179.4	207.9	193.6
Dekalb DK711(sx)##	3	1.3	0.6	1.0	171.0	215.1	193.0
Vigoro KE 1162(sx)	4	0.0	0.0	0.0	175.1	207.8	191.4
Northrup King N6330(sx)##	3	0.0	0.1	0.0	180.2	201.2	190.7
Terra - TR 1167(sx)	3	0.8	0.0	0.4	189.1	191.2	190.2
Hubner H-9117(sx)	2	0.0	0.0	0.0	180.8	199.6	190.2
ICI 8326(sx)	2	0.0	0.0	0.0	177.6	202.8	190.2
JMS SX 1161(sx)	2	0.7	0.0	0.4	180.7	197.6	189.2
ICI 8513(sx)	2	1.1	0.1	0.6	174.0	203.9	189.0
Ciba Geigy G-4583(sx)	2	0.0	0.0	0.0	174.5	202.9	188.7
Lewis 7288(sx)	2	0.0	0.0	0.0	167.1	208.9	188.0
Mity Mo 191(sx)	2	0.0	0.0	0.0	156.5	215.1	185.8
Stine 1180 Brand(sx)	2	0.0	0.1	0.0	166.2	205.0	185.6
NC+ 6959(sx)	2	0.7	0.0	0.4	172.5	197.8	185.2
Lewis 5952(sx)	2	0.0	0.1	0.0	173.8	195.5	184.6
Jacques 8210(sx)	2	0.6	0.0	0.3	164.5	203.6	184.0
Hubner H-9215(sx)	2	0.6	0.0	0.3	161.3	206.2	183.8
AgriPro AP 605(sx)	1	0.0	0.0	0.0	170.9	195.5	183.2
JMS SX 1190(sx)	2	0.0	1.0	0.5	178.5	187.4	183.0
Hubner H-9115(sx)	2	0.0	0.0	0.0	173.6	191.4	182.5
JMS SX 1181(sx)	2	0.0	0.8	0.4	170.5	193.6	182.0
Terra - TR 1160(sx)	3	1.2	0.0	0.6	166.5	196.7	181.6
Kitchen KSC 5120(sx)	2	0.6	0.0	0.3	175.2	187.5	181.4
Lewis 6642(sx)	2	0.0	0.0	0.0	175.7	186.9	181.3
Merschman M-1117(sx)	1	0.0	0.0	0.0	172.3	189.0	180.6
Northrup King N7768(sx)##	4	0.6	0.7	0.6	156.0	205.1	180.6
MFA 4922(sx)	2	0.0	0.0	0.0	172.5	188.4	180.4
Terra - TR 641E(sx)	2	0.0	0.1	0.0	152.5	206.0	179.2
Terra - TR 621E(sx)	3	0.5	0.1	0.3	159.8	196.4	178.1
Middlekoop 608(sx)	1	0.7	0.0	0.4	170.4	177.9	174.2
Merschman M-1114(sx)	1	0.0	0.0	0.0	140.6	178.0	159.3
TRIAL AVERAGE		0.5	0.3	0.4	187.3	209.0	198.1
L.S.D. AT .05		2.2	2.1	1.5	28.8	23.3	19.8
C.V. %					9.6	7.0	8.8

** Highest Yielding Hybrid in the test.

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

Widely-grown hybrid.

TABLE 8. Performance of Irrigated Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1990-92.

Planted: 14 April 1992
 Harvested: 22 September 1992
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=5.5, OM=1.0%, P=115, K=379

Fertilizer: N=305; P₂O₅=200; K₂O=200.
 Herbicide: Dual + Extrazine
 Insecticide: Lorsban
 Irrigation: 10.5 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=3.0, May=2.0, June=1.6, July=6.1, Aug.=1.3, TOTAL=14.0".

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)		Moisture (%)		Lodging (%)			Yield (Bu/Acre)		
		1992	1992	1992	1991	1990	1992	1991	1990		
Pioneer Hybrid 3162(sx)##	4	28000	26.3	1.2	4.0	0.0	260.3**	208.3*	181.9		
Lynks 2868(sx)	3	26400	25.6	1.1	--	--	259.7**	--	--		
Ciba Geigy G-4673B(sx)	3	27700	24.1	1.3	2.8	--	257.7*	196.0	--		
Middlekoop 615(sx)	2	29000	22.9	0.0	--	--	254.9*	--	--		
Northrup King N8727(sx)	4	29200	25.1	0.8	2.3	1.9	251.1*	200.5*	187.0*		
Asgrow RX899(sx)##	2	28200	24.2	1.3	0.9	--	250.4*	217.6*	--		
Triumph 2010(sx)	2	26800	24.7	1.0	--	--	250.3*	--	--		
Pioneer Hybrid 3245(sx)##	4	27700	22.0	0.8	2.5	--	249.6*	220.0**	--		
Terra - TR 1167(sx)	3	26700	24.7	0.4	--	--	248.9*	--	--		
Cargill 8427(sx)	2	27900	25.0	0.0	0.5	--	248.7*	205.4*	--		
Merschman M-2121(sx)	1	27900	24.3	0.0	--	--	248.6*	--	--		
Lewis 5721(sx)	1	25700	23.1	1.8	3.0	--	247.1*	219.9*	--		
Bo-Jac 629(sx)	3	27800	24.0	0.9	--	--	246.5*	--	--		
Lynks 2829(sx)	2	27000	24.1	0.5	1.1	--	245.0*	199.9*	--		
Pioneer Hybrid 3317(sx)##	4	27000	22.4	0.9	1.1	--	244.9*	186.2	--		
Cargill 7997(sx)	2	29200	25.8	0.4	1.8	--	244.9*	196.7	--		
Dairyland Stealth-1217(sx)	1	28300	25.2	0.0	--	--	244.8*	--	--		
Bo-Jac 427(sx)	1	29200	22.4	1.3	--	--	244.5*	--	--		
Cargill 7877(sx)##	2	27300	22.9	1.3	--	0.5	242.6*	--	193.8*		
Northrup King N7768(sx)##	4	29200	23.7	0.4	1.7	--	242.2*	196.3	--		
Dekalb DK711(sx)##	3	27000	25.2	0.9	1.0	0.5	241.6*	204.1*	188.3*		
Middlekoop 514(sx)	2	27300	22.9	0.5	--	--	241.0*	--	--		
Golden Harvest H-2592(sx)	2	28500	22.8	0.0	--	--	240.9*	--	--		
Cargill 8177(sx)	2	26200	24.3	0.9	--	--	240.9*	--	--		
Terra - TR 1145(sx)	2	29200	23.9	0.8	--	--	239.3*	--	--		
Triumph 1630(sx)	1	28200	28.0	1.3	0.0	--	238.0*	202.9*	--		
Cargill 7697(sx)	2	26800	23.7	1.0	0.4	--	237.5*	179.3	--		
Dekalb DK646(sx)##	2	28100	24.7	1.4	1.9	--	237.4*	202.1*	--		
Jacques 8210(sx)	2	26800	23.8	1.0	2.1	1.0	236.9*	199.1	194.9*		
Wilson 2330(sx)	3	27000	25.9	0.0	1.2	--	236.8*	196.7	--		
MFA 3515(sx)	2	25700	22.0	0.5	0.9	1.4	236.0	208.0*	205.1*		
ICI/Garst 8272(sx)	3	27300	24.5	0.4	--	--	235.2	--	--		
Dairyland Stealth-1114(sx)	1	29200	23.2	2.2	--	--	235.0	--	--		
Crow's 667(sx)	2	28000	24.3	1.8	--	--	234.9	--	--		
Hyperformer HS 9843(sx)	3	29200	24.9	0.4	--	--	234.6	--	--		
Dekalb DK671(sx)##	2	28600	27.0	0.8	1.0	--	234.0	205.2*	--		
Lewis 7288(sx)	3	28100	24.1	0.0	1.8	1.6	233.6	195.5	193.8*		
Ciba Geigy G-4631(sx)	2	27500	23.5	1.3	--	--	232.3	--	--		
Stine 1180 Brand(sx)	2	27100	24.6	0.5	1.9	0.5	232.2	195.0	202.2*		
MFA 4512(sx)	2	26900	22.2	0.0	3.1	--	232.1	205.5*	--		
Golden Harvest H-2544(sx)	1	29200	23.4	0.4	0.5	--	232.0	188.0	--		
Asgrow RX802(sx)	2	27200	23.8	0.9	--	--	231.7	--	--		
Triumph 1270(sx)	1	28000	23.9	0.9	0.6	1.0	231.0	192.6	178.9		
Gro Agri GSC 4192(sx)	2	29000	23.6	4.7	0.9	0.5	231.0	202.1*	205.0*		
MFA 6230X(sx)	2	28100	24.5	8.2	--	--	230.9	--	--		
Northrup King N7816(sx)	3	26800	24.2	1.9	--	--	230.8	--	--		
Master Choice 605(sx)	2	27400	23.7	0.9	--	--	230.6	--	--		
Pioneer Hybrid 3394(sx)##	3	27400	21.2	2.7	1.9	--	230.1	202.8*	--		
Crow's 670(sx)	1	27200	26.5	1.8	--	2.1	229.2	--	162.2		
Bo-Jac 925(sx)	3	28000	25.5	0.0	--	--	228.0	--	--		
Hyperformer HS 9502(sx)	1	28900	22.7	1.2	--	--	227.4	--	--		
Asgrow RX809(sx)	2	27800	23.9	1.8	--	--	227.2	--	--		
Jacques 8510(sx)	2	27600	25.2	2.7	3.4	0.4	227.0	211.2*	206.1**		
Gro Agri GSC 4172(sx)	2	26800	27.3	2.8	2.0	--	226.8	200.0*	--		
Hyperformer HS 9704(sx)	2	28400	24.1	1.2	--	--	226.8	--	--		
Crow's 488(sx)	1	28500	22.5	0.9	--	2.8	226.4	--	185.5*		
Dyna-Gro 5671(sx)	2	28500	25.9	0.0	--	--	226.3	--	--		

TABLE 8. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)	(%)	(%)	(Bu/Acre)	(Bu/Acre)	(Bu/Acre)
		1992	1992	1992	1991	1990	1992	1991	1990
Middlekoop 616(sx)	2	28500	22.4	5.2	--	--	226.2	--	--
Bo-Jac 7195(sx)	3	27500	24.5	0.4	--	--	225.7	--	--
Merschman M-2115(sx)	1	27700	23.8	1.3	--	--	225.5	--	--
Golden Harvest H-2641(sx)	2	28700	25.4	0.5	--	--	224.7	--	--
Terra - TR 641E(sx)	2	27000	24.9	1.4	--	--	224.3	--	--
Stine 1151 Brand(sx)	1	27400	23.3	0.4	--	--	222.0	--	--
Northrup King N6330(sx)##	3	28600	22.0	0.4	1.7	--	221.4	205.0*	--
Golden Harvest H-2525(sx)	1	26600	21.6	0.9	1.7	0.9	220.8	218.9*	172.2
JMS 1141(sx)	2	25800	23.1	0.0	--	--	220.4	--	--
JMS 1090(sx)	1	28600	24.8	0.0	--	--	220.2	--	--
Middlekoop 614(sx)	2	29200	22.7	0.0	--	--	220.1	--	--
Merschman M-1114(sx)	1	27700	22.6	0.9	--	--	220.0	--	--
Merschman M-2118(sx)	1	27700	24.0	1.3	--	--	219.7	--	--
Terra - TR 1160(sx)	3	26700	26.1	0.5	--	--	218.9	--	--
Terra - TR 621E(sx)	3	28800	24.2	0.0	--	--	218.3	--	--
Dyna-Gro 5561(sx)	1	27900	22.8	0.4	--	--	217.3	--	--
MFA 3516(sx)	2	27100	21.8	0.4	1.9	2.0	216.6	197.8	179.2
Golden Harvest H-2485(sx)	1	28100	23.4	0.0	--	--	215.8	--	--
Dyna-Gro 5491(sx)	1	27600	22.8	0.4	--	--	213.5	--	--
Wilson 1890(sx)	1	29200	25.4	0.0	2.9	0.8	213.0	191.9	180.6
Merschman M-1117(sx)	1	26500	22.2	0.5	--	--	212.0	--	--
Crow's 669(sx)	2	29200	25.6	0.0	--	0.0	203.8	--	195.9*
Northrup King PX9540(sx)##	3	23000	22.5	0.0	--	--	202.2	--	--
TRIAL AVERAGE		27735	24.0	1.0	1.9	0.9	232.9	196.2	181.5
L.S.D. AT .05		2630	1.9	2.4	NS	NS	24.2	20.7	22.7
C.V. %		5.9	4.8				6.4	6.5	7.8

** Highest Yielding Hybrid in the test.

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

-- Data not available.

Widely-grown hybrid.

NS Not significant at the .05 level.

TABLE 9. Performance of Corn Hybrids evaluated near Laddonia (Audrain County) on the Freyer Farms during 1990-92.

Planted: 8 May 1992
 Harvested: 5 October 1992
 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=280; P₂O₅=200; K₂O=200.
 Herbicide: Sutan Plus
 Insecticide: Lorsban
 Irrigation: 9.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=2.6, May=1.4, June=0.8, July=5.5, Aug.=1.0, TOTAL=11.3".

Brand-Hybrid	Mat- urity Group	Plants		Moisture		Lodging			Yield		
		(#/Acre)	(%)	(%)	(%)	1992	1991	1990	1992	1991	1990
Hyperformer HS 9843(sx)	3	29200	23.0	0.0	--	--	268.1**	--	--	--	
Pioneer Hybrid 3394(sx)##	3	28500	19.0	0.0	0.4	--	267.1*	225.7*	--	--	
Pioneer Hybrid 3245(sx)##	4	27900	23.3	0.0	1.2	--	266.7*	219.8*	--	--	
Golden Harvest H-2544(sx)	1	29200	21.2	0.8	8.3	--	264.8*	218.1*	--	--	
Triumph 2010(sx)	2	27800	23.4	0.8	--	--	264.1*	--	--	--	
MFA 3515(sx)	2	27800	23.1	0.4	2.0	2.1	263.9*	210.4	198.3	--	
Pioneer Hybrid 3162(sx)##	4	28400	25.7	0.4	4.9	1.7	263.6*	207.4	184.8	--	
Asgrow RX899(sx)##	2	29200	23.1	0.4	2.0	--	263.1*	225.6*	--	--	
Middlekoop 615(sx)	2	28900	23.1	0.4	--	--	261.2*	--	--	--	
Cargill 7997(sx)	2	29200	21.6	0.0	1.7	--	259.8*	236.2**	--	--	
MFA 3516(sx)	2	29200	21.8	1.3	0.4	1.4	259.4*	224.0*	195.2	--	
Merschman M-2121(sx)	1	29000	23.0	0.8	--	--	259.3*	--	--	--	
Lynks 2868(sx)	3	28300	23.6	0.4	--	--	259.0*	--	--	--	
Northrup King N7816(sx)	3	28700	20.2	1.3	--	--	258.7*	--	--	--	
Golden Harvest H-2641(sx)	2	28700	23.9	0.0	--	--	257.7*	--	--	--	
Bo-Jac 7195(sx)	3	29200	23.3	0.4	--	--	257.2*	--	--	--	
Cargill 8177(sx)	2	28400	22.9	0.0	--	--	256.8*	--	--	--	
Hyperformer HS 9704(sx)	2	29200	21.3	1.7	--	--	256.8*	--	--	--	
Bo-Jac 629(sx)	3	28100	23.8	1.3	--	--	255.4*	--	--	--	
Dekalb DK646(sx)##	2	27300	23.6	0.5	2.6	--	254.6*	203.5	--	--	
Jacques 8510(sx)	2	29200	24.3	0.8	1.6	4.1	254.6*	226.3*	199.3	--	
Crow's 488(sx)	1	27700	21.0	1.3	--	1.9	254.4*	--	182.0	--	
Asgrow RX802(sx)	2	28200	21.5	0.4	--	--	253.4*	--	--	--	
Lynks 2829(sx)	2	29000	24.1	0.9	0.8	--	251.6*	226.2*	--	--	
Terra - TR 1167(sx)	3	29200	23.7	1.3	--	--	250.8*	--	--	--	
Cargill 7877(sx)##	2	28700	21.6	0.0	--	2.9	250.7*	--	210.7*	--	
Bo-Jac 925(sx)	3	28300	24.7	0.0	--	--	250.0*	--	--	--	
Merschman M-2118(sx)	1	27400	22.4	0.0	--	--	249.6*	--	--	--	
Dyna-Gro 5561(sx)	1	29200	20.0	1.7	--	--	249.6*	--	--	--	
Gro Agri GSC 4172(sx)	2	27400	25.7	2.7	4.6	--	248.8*	203.8	--	--	
Asgrow RX809(sx)	2	29200	21.6	0.4	--	--	248.7*	--	--	--	
Jacques 8210(sx)	2	28500	22.7	0.0	0.8	0.9	248.5*	219.7*	209.0*	--	
Pioneer Hybrid 3317(sx)##	4	28100	20.6	1.3	0.8	--	248.5*	211.5	--	--	
Ciba Geigy G-4673B(sx)	3	28200	23.5	0.4	18.9	--	247.8	197.6	--	--	
ICI/Garsf 8272(sx)	3	29200	23.0	2.5	--	--	247.6	--	--	--	
Merschman M-1114(sx)	1	28900	22.4	0.9	--	--	246.5	--	--	--	
Master Choice 605(sx)	2	29200	22.7	0.8	--	--	245.4	--	--	--	
Cargill 7697(sx)	2	28200	21.3	0.5	1.6	--	245.2	204.4	--	--	
Cargill 8427(sx)	2	29200	25.3	1.7	4.8	--	245.1	194.9	--	--	
Terra - TR 1160(sx)	3	28700	21.9	0.9	--	--	245.1	--	--	--	
Wilson 1890(sx)	1	29000	24.1	0.0	0.4	3.0	244.0	211.2	174.5	--	
Dekalb DK671(sx)##	2	27900	25.2	1.3	2.4	--	243.4	210.5	--	--	
Terra - TR 1145(sx)	2	29200	23.0	0.0	--	--	243.3	--	--	--	
Northrup King N6330(sx)##	3	27800	19.6	0.0	3.2	--	243.0	210.1	--	--	
Gro Agri GSC 4192(sx)	2	26200	23.4	0.9	1.7	1.0	242.4	215.4	200.9*	--	
JMS 1141(sx)	2	27900	23.4	0.0	--	--	242.2	--	--	--	
Terra - TR 641E(sx)	2	28700	22.8	1.2	--	--	241.4	--	--	--	
Lewis 5721(sx)	1	27900	21.8	0.0	2.5	--	241.1	219.2*	--	--	
Golden Harvest H-2592(sx)	2	26400	24.1	0.0	--	--	239.5	--	--	--	
Dairyland Stealth-1114(sx)	1	28400	21.2	0.4	--	--	239.4	--	--	--	
Golden Harvest H-2485(sx)	1	28400	19.9	0.0	--	--	239.3	--	--	--	
Golden Harvest H-2525(sx)	1	27300	20.0	0.4	1.2	2.1	239.0	219.7*	190.1	--	
Dyna-Gro 5491(sx)	1	28300	21.8	0.4	--	--	238.5	--	--	--	
Crow's 670(sx)	1	28500	25.1	0.9	--	1.4	238.1	--	198.4	--	
Middlekoop 614(sx)	2	28700	20.0	0.4	--	--	238.1	--	--	--	
Triumph 1270(sx)	1	28800	19.9	0.0	1.7	0.4	238.0	208.1	177.2	--	
Northrup King N8727(sx)	4	28800	25.8	0.9	0.8	0.9	237.3	208.7	181.6	--	
Ciba Geigy G-4631(sx)	2	28500	22.4	1.3	--	--	237.2	--	--	--	
Crow's 669(sx)	2	29200	23.9	0.0	--	1.1	236.8	--	166.3	--	

TABLE 9. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging			Yield		
		(#/Acre)	(%)	(%)	1991	1990	(Bu/Acre)	1991	1990
		1992	1992	1992	1991	1990	1992	1991	1990
Dyna-Gro 5671(sx)	2	27900	26.2	0.0	--	--	235.5	--	--
Crow's 667(sx)	2	28700	22.3	0.0	--	--	235.5	--	--
Hyperformer HS 9502(sx)	1	28900	20.4	0.8	--	--	234.6	--	--
Lewis 7288(sx)	3	28200	22.9	0.9	1.6	0.4	234.5	219.1*	201.0*
Dekalb DK711(sx)##	3	27800	23.8	0.9	2.1	1.3	233.7	222.9*	189.6
Northrup King N7768(sx)##	4	29200	23.2	0.8	5.6	--	232.0	215.9	--
Terra - TR 621E(sx)	3	29200	25.0	0.4	--	--	231.2	--	--
Northrup King PX9540(sx)##	3	26300	22.5	0.0	--	--	231.1	--	--
Bo-Jac 427(sx)	1	27600	19.3	0.0	--	--	230.9	--	--
JMS 1090(sx)	1	28800	19.7	0.0	--	--	230.6	--	--
Triumph 1630(sx)	1	27900	27.0	0.8	2.1	--	230.6	195.1	--
Middlekoop 616(sx)	2	27900	22.8	0.9	--	--	230.5	--	--
Dairyland Stealth-1217(sx)	1	28700	23.7	0.8	--	--	230.3	--	--
Middlekoop 514(sx)	2	28900	21.5	1.3	--	--	230.0	--	--
Stine 1180 Brand(sx)	2	27400	21.1	1.4	1.2	0.0	227.9	218.3*	197.8
Wilson 2330(sx)	3	27800	27.3	0.9	5.6	--	225.2	214.6	--
Merschman M-1117(sx)	1	27700	21.2	0.9	--	--	225.1	--	--
Merschman M-2115(sx)	1	27900	20.6	0.0	--	--	222.5	--	--
Stine 1151 Brand(sx)	1	28200	20.6	0.0	--	--	222.3	--	--
MFA 4512(sx)	2	28100	19.5	0.4	0.4	--	217.3	211.4	--
MFA 6230X(sx)	2	28900	23.6	16.8	--	--	216.6	--	--
TRIAL AVERAGE		28411	22.6	0.8	2.5	1.6	244.6	211.1	190.1
L.S.D. AT .05		2007	1.8	2.7	7.9	3.2	20.0	19.2	20.7
C.V. %		4.4	5.0				5.1	5.6	6.8

** Highest Yielding Hybrid in the test.

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

-- Data not available.

Widely-grown hybrid.

TABLE 10. Performance record of Irrigated Corn Hybrids evaluated at two central Missouri locations (Columbia and Laddonia) during 1992.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Laddonia	Mean	Columbia	Laddonia	Mean
<u>Columbia</u> Planted: 14 April 1992 Harvested: 22 September 1992 Growing Season Rainfall: 14.0 inches. Irrigation: 10.5 inches		<u>Laddonia</u> Planted: 8 May 1992. Harvested: 5 October 1992 Growing Season Rainfall: 11.3 inches. Irrigation: 9.00 inches					
Pioneer Hybrid 3162(sx)##	4	1.2	0.4	0.8	260.3**	263.6*	262.0**
Lynks 2868(sx)	3	1.1	0.4	0.8	259.7*	259.0*	259.4*
Pioneer Hybrid 3245(sx)##	4	0.8	0.0	0.4	249.6*	266.7*	258.2*
Middlekoop 615(sx)	2	0.0	0.4	0.2	254.9*	261.2*	258.0*
Triumph 2010(sx)	2	1.0	0.8	0.9	250.3*	264.1*	257.2*
Asgrow RX899(sx)##	2	1.3	0.4	0.8	250.4*	263.1*	256.8*
Merschman M-2121(sx)	1	0.0	0.8	0.4	248.6*	259.3*	254.0*
Ciba Geigy G-4673B(sx)	3	1.3	0.4	0.8	257.7*	247.8	252.8*
Cargill 7997(sx)	2	0.4	0.0	0.2	244.9*	259.8*	252.4*
Hyperformer HS 9843(sx)	3	0.4	0.0	0.2	234.6	268.1**	251.4*
Bo-Jac 629(sx)	3	0.9	1.3	1.1	246.5*	255.4*	251.0*
MFA 3515(sx)	2	0.5	0.4	0.4	236.0	263.9*	250.0*
Terra - TR 1167(sx)	3	0.4	1.3	0.8	248.9*	250.8*	249.8*
Cargill 8177(sx)	2	0.9	0.0	0.4	240.9*	256.8*	248.8*
Pioneer Hybrid 3394(sx)##	3	2.7	0.0	1.4	230.1	267.1*	248.6*
Golden Harvest H-2544(sx)	1	0.4	0.8	0.6	232.0	264.8*	248.4*
Lynks 2829(sx)	2	0.5	0.9	0.7	245.0*	251.6*	248.3*
Cargill 8427(sx)	2	0.0	1.7	0.8	248.7*	245.1	246.9*
Pioneer Hybrid 3317(sx)##	4	0.9	1.3	1.1	244.9*	248.5*	246.7*
Cargill 7877(sx)##	2	1.3	0.0	0.6	242.6*	250.7*	246.6*
Dekalb DK646(sx)##	2	1.4	0.5	1.0	237.4*	254.6*	246.0*
Northrup King N7816(sx)	3	1.9	1.3	1.6	230.8	258.7*	244.8
Northrup King N8727(sx)	4	0.8	0.9	0.8	251.1*	237.3	244.2
Lewis 5721(sx)	1	1.8	0.0	0.9	247.1*	241.1	244.1
Jacques 8210(sx)	2	1.0	0.0	0.5	236.9*	248.5*	242.7
Asgrow RX802(sx)	2	0.9	0.4	0.6	231.7	253.4*	242.6
Hyperformer HS 9704(sx)	2	1.2	1.7	1.4	226.8	256.8*	241.8
Cargill 7697(sx)	2	1.0	0.5	0.8	237.5*	245.2	241.4
ICI/Garst 8272(sx)	3	0.4	2.5	1.4	235.2	247.6	241.4
Bo-Jac 7195(sx)	3	0.4	0.4	0.4	225.7	257.2*	241.4
Terra - TR 1145(sx)	2	0.8	0.0	0.4	239.3*	243.3	241.3
Golden Harvest H-2641(sx)	2	0.5	0.0	0.2	224.7	257.7*	241.2
Jacques 8510(sx)	2	2.7	0.8	1.8	227.0	254.6*	240.8
Crow's 488(sx)	1	0.9	1.3	1.1	226.4	254.4*	240.4
Golden Harvest H-2592(sx)	2	0.0	0.0	0.0	240.9*	239.5	240.2
Bo-Jac 925(sx)	3	0.0	0.0	0.0	228.0	250.0*	239.0
Dekalb DK671(sx)##	2	0.8	1.3	1.0	234.0	243.4	238.7
Master Choice 605(sx)	2	0.9	0.8	0.8	230.6	245.4	238.0
MFA 3516(sx)	2	0.4	1.3	0.8	216.6	259.4*	238.0
Asgrow RX809(sx)	2	1.8	0.4	1.1	227.2	248.7*	238.0
Gro Agri GSC 4172(sx)	2	2.8	2.7	2.8	226.8	248.8*	237.8
Bo-Jac 427(sx)	1	1.3	0.0	0.6	244.5*	230.9	237.7
Dairyland Stealth-1217(sx)	1	0.0	0.8	0.4	244.8*	230.3	237.6
Dekalb DK711(sx)##	3	0.9	0.9	0.9	241.6*	233.7	237.6
Dairyland Stealth-1114(sx)	1	2.2	0.4	1.3	235.0	239.4	237.2
Northrup King N7768(sx)##	4	0.4	0.8	0.6	242.2*	232.0	237.1
Gro Agri GSC 4192(sx)	2	4.7	0.9	2.8	231.0	242.4	236.7
Middlekoop 514(sx)	2	0.5	1.3	0.9	241.0*	230.0	235.5
Crow's 667(sx)	2	1.8	0.0	0.9	234.9	235.5	235.2
Ciba Geigy G-4631(sx)	2	1.3	1.3	1.3	232.3	237.2	234.8
Merschman M-2118(sx)	1	1.3	0.0	0.6	219.7	249.6*	234.6
Triumph 1270(sx)	1	0.9	0.0	0.4	231.0	238.0	234.5
Triumph 1630(sx)	1	1.3	0.8	1.0	238.0*	230.6	234.3
Lewis 7288(sx)	3	0.0	0.9	0.4	233.6	234.5	234.0
Crow's 670(sx)	1	1.8	0.9	1.4	229.2	238.1	233.6
Dyna-Gro 5561(sx)	1	0.4	1.7	1.0	217.3	249.6*	233.4
Merschman M-1114(sx)	1	0.9	0.9	0.9	220.0	246.5	233.2
Terra - TR 641E(sx)	2	1.4	1.2	1.3	224.3	241.4	232.8
Northrup King N6330(sx)##	3	0.4	0.0	0.2	221.4	243.0	232.2

TABLE 10. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Laddonia	Mean	Columbia	Laddonia	Mean
Terra - TR 1160(sx)	3	0.5	0.9	0.7	218.9	245.1	232.0
JMS 1141(sx)	2	0.0	0.0	0.0	220.4	242.2	231.3
Wilson 2330(sx)	3	0.0	0.9	0.4	236.8*	225.2	231.0
Hyperformer HS 9502(sx)	1	1.2	0.8	1.0	227.4	234.6	231.0
Dyna-Gro 5671(sx)	2	0.0	0.0	0.0	226.3	235.5	230.9
Stine 1180 Brand (sx)	2	0.5	1.4	1.0	232.2	227.9	230.1
Golden Harvest H-2525(sx)	1	0.9	0.4	0.6	220.8	239.0	229.9
Middlekoop 614(sx)	2	0.0	0.4	0.2	220.1	238.1	229.1
Wilson 1890(sx)	1	0.0	0.0	0.0	213.0	244.0	228.5
Middlekoop 616(sx)	2	5.2	0.9	3.0	226.2	230.5	228.4
Golden Harvest H-2485(sx)	1	0.0	0.0	0.0	215.8	239.3	227.6
Dyna-Gro 5491(sx)	1	0.4	0.4	0.4	213.5	238.5	226.0
JMS 1090(sx)	1	0.0	0.0	0.0	220.2	230.6	225.4
Terra - TR 621E(sx)	3	0.0	0.4	0.2	218.3	231.2	224.8
MFA 4512(sx)	2	0.0	0.4	0.2	232.1	217.3	224.7
Merschman M-2115(sx)	1	1.3	0.0	0.6	225.5	222.5	224.0
MFA 6230X(sx)	2	8.2	16.8	12.5	230.9	216.6	223.8
Stine 1151 Brand(sx)	1	0.4	0.0	0.2	222.0	222.3	222.2
Crow's 669(sx)	2	0.0	0.0	0.0	203.8	236.8	220.3
Merschman M-1117(sx)	1	0.5	0.9	0.7	212.0	225.1	218.6
Northrup King PX9540(sx)##	3	0.0	0.0	0.0	202.2	231.1	216.6
TRIAL AVERAGE		1.0	0.8	0.9	232.9	244.6	238.8
L.S.D. .05		2.4	2.7	1.8	24.2	20.0	16.0
C.V. %					6.4	5.1	5.9

** Highest Yielding Hybrid in the test.

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

Widely-grown hybrid.

TABLE 11. Performance of Irrigated Corn Hybrids evaluated near Nevada (Vernon County) on the Robert Cubbage Farm during 1990-92.

Planted: 9 April 1992
 Harvested: 29 September 1992
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.0, OM=3.0%, P=71, K=231

Fertilizer: N=230; P₂O₅=55; K₂O=90; Zinc=5
 Herbicide: Dual + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=4.6, May=1.8, June=7.6, July=13.8, Aug.=1.9, TOTAL=29.7".

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)		Moisture (%)		Lodging (%)			Yield (Bu/Acre)		
		1992	1992	1992	1991	1990	1992	1991	1990		
Bo-Jac 7195(sx)	3	27300	17.4	0.1	--	--	238.7**	--	--		
Pioneer Hybrid 3162(sx)##	4	25800	18.1	0.0	2.2	0.0	238.4*	104.2	161.4*		
Oro EXP.1008(sx)	3	25700	20.0	0.0	--	--	229.0*	--	--		
Pioneer Hybrid 3245(sx)##	4	26400	15.9	0.5	2.5	--	227.3*	97.6	--		
Bo-Jac 925(sx)	3	27700	17.4	0.9	--	--	227.0*	--	--		
Cargill 8427(sx)	2	28000	18.4	1.7	1.7	0.0	226.2*	96.8	152.0*		
Cargill 7997(sx)	2	28500	17.7	0.9	3.3	--	225.0*	104.0	--		
NC+ 7304(sx)	2	29000	16.4	0.4	4.7	--	225.0*	105.2	--		
Cargill 7877(sx)##	2	27700	17.1	0.1	--	0.0	224.7*	--	148.1*		
Golden Acres T-E 9586(sx)	3	26800	20.5	1.5	--	--	223.6*	--	--		
Asgrow RX899(sx)##	2	28000	17.2	0.4	3.4	--	223.5*	109.6	--		
Golden Harvest H-2525(sx)	1	28200	15.3	0.9	0.4	0.0	223.2*	101.3	148.6*		
Oro 190(sx)	2	25200	17.9	0.0	0.9	0.0	223.0*	106.6	157.3*		
Northrup King N7768(sx)##	4	27000	18.3	0.0	0.4	--	222.9*	87.0	--		
Terra - TR 1167(sx)	3	27500	17.9	0.0	--	--	222.3*	--	--		
Pioneer Hybrid 3394(sx)##	3	26800	15.6	0.9	1.3	--	222.1*	111.5	--		
Merschman M-2121(sx)	1	27000	16.6	0.9	--	--	222.0*	--	--		
Northrup King N7816(sx)	3	26100	17.9	0.1	--	0.0	221.8*	--	155.7*		
Bo-Jac 629(sx)	3	27700	17.8	0.9	--	--	221.2*	--	--		
Oro 188(sx)	2	26800	19.4	0.5	5.1	--	220.9*	104.4	--		
Dekalb DK646(sx)##	2	29000	16.3	0.0	3.1	--	219.6*	93.0	--		
Cargill 7697(sx)	2	27100	16.9	0.4	11.4	--	219.4*	78.6	--		
Terra - TR 1145(sx)	2	28100	16.5	0.9	--	--	219.4*	--	--		
Dekalb DK671(sx)##	2	26200	18.8	0.0	2.0	--	218.8	87.5	--		
Northrup King N6330(sx)##	3	27500	15.9	0.0	0.0	--	218.2	79.8	--		
Asgrow RX802(sx)	2	26900	16.6	0.5	--	--	218.1	--	--		
Golden Acres TE Ex9106(sx)	2	27000	17.3	0.9	--	--	217.9	--	--		
Terra - TR 621E(sx)	3	27900	18.2	0.0	--	--	217.0	--	--		
Cargill 8177(sx)	2	28300	17.2	0.0	--	--	216.8	--	--		
Triumph 2010(sx)	2	27000	17.5	0.0	--	--	216.0	--	--		
Terra - TR 641E(sx)	2	26400	18.4	0.0	--	--	214.3	--	--		
Asgrow RX809(sx)	2	27500	17.0	0.0	--	--	214.2	--	--		
Golden Harvest H-2641(sx)	2	27000	18.1	0.1	--	--	213.8	--	--		
Stine 1180 Brand(sx)	2	27700	19.1	0.0	0.4	0.0	213.5	90.6	155.3*		
Golden Harvest H-2485(sx)	1	25900	14.9	0.0	--	--	212.3	--	--		
MFA 4512(sx)	2	27300	15.6	0.0	0.0	--	212.3	92.8	--		
Ciba Geigy G-4673B(sx)	3	27000	18.5	0.0	1.3	--	211.9	92.5	--		
NC+ 6959(sx)	2	25700	18.1	0.0	--	--	211.8	--	--		
Golden Harvest H-2592(sx)	2	25100	17.2	0.0	2.1	--	211.5	115.2**	--		
MFA 3516(sx)	2	28600	16.5	0.1	0.8	0.0	211.3	100.9	161.8*		
Pioneer Hybrid 3317(sx)##	4	26200	16.3	0.0	0.4	--	210.1	107.2	--		
Golden Harvest H-2544(sx)	1	26400	16.4	0.0	--	--	209.4	--	--		
MFA 3515(sx)	2	26000	16.8	0.0	2.2	0.0	209.2	114.9	149.3*		
Golden Acres T-E 7055(sx)	2	27700	18.1	1.3	0.0	0.0	208.6	82.4	154.0*		
Dekalb DK711(sx)##	3	26000	18.7	0.0	0.4	0.0	208.0	107.4	165.0**		
Terra - TR 1160(sx)	3	27500	17.6	0.9	--	--	207.6	--	--		
Northrup King PX9540(sx)##	3	26100	16.7	0.9	0.8	--	202.7	86.1	--		
Triumph 1270(sx)	1	25200	15.9	0.0	0.4	--	200.6	93.9	--		
Stine 1225 Brand(sx)	3	23600	20.1	0.6	--	--	199.7	--	--		
ICI 8260(sx)	3	27300	18.1	0.4	--	--	197.7	--	--		
MFA 6230X(sx)	2	27300	18.6	0.0	--	--	178.9	--	--		
TRIAL AVERAGE		26975	17.5	0.3	2.1	0.0	216.6	98.2	143.1		
L.S.D. AT .05		2181	0.9	1.0	3.8	0.4	19.7	NS	20.9		
C.V. %		5.0	3.1				5.6	17.3	9.0		

** Highest Yielding Hybrid in the test.

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

-- Data not available.

Widely-grown hybrid.

NS Not significant at the .05 level.

TABLE 12. Performance of Irrigated Corn Hybrids evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1990-92.

Planted: 27 March 1992
 Harvested: 17 September 1992
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.3, OM=1.4%, P=117, K=305

Fertilizer: N=230; P₂O₅=0; K₂O=60.
 Herbicide: Lasso + Bladex + Aatrex
 Insecticide: Lorsban
 Irrigation: 0.5 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=4.3, May=5.5, June=4.5, July=18.3, Aug.=1.9, TOTAL=34.5".

Brand-Hybrid	Mat- urity Group	Plants		Moisture			Lodging			Yield (Bu/Acre)		
		(#/Acre)	(%)	1992	1991	1990	1992	1991	1990	1992	1991	1990
Pioneer Hybrid 3162(sx)##	4	23800	20.1	4.2	0.1	0.0	242.5**	169.4*	147.5			
Bo-Jac 925(sx)	3	24800	20.0	0.9	--	--	227.2*	--	--			
Asgrow RX899(sx)##	2	24100	20.0	1.0	2.2	--	226.9*	182.0*	--			
Cargill 7997(sx)	2	26400	20.6	0.5	4.7	--	223.4*	159.1	--			
Pioneer Hybrid 3317(sx)##	4	23600	18.6	1.0	1.8	--	223.0*	172.7*	--			
MFA 4512(sx)	2	26000	18.6	1.0	0.7	--	220.5*	164.7	--			
Pioneer Hybrid 3245(sx)##	4	23100	18.5	1.0	0.0	--	220.3*	153.0	--			
Terra - TR 1145(sx)	2	24500	19.4	4.9	--	--	220.2*	--	--			
Bo-Jac 7195(sx)	3	25800	20.4	1.5	--	--	219.8*	--	--			
Cargill 7697(sx)	2	25800	19.7	0.5	0.0	--	218.6*	154.9	--			
Cargill 7877(sx)##	2	24300	19.2	2.1	--	0.9	218.5*	--	--	145.8		
Pioneer Hybrid 3394(sx)##	3	24700	17.9	1.0	0.6	--	218.1*	164.8	--			
Cargill 8427(sx)	2	25100	21.2	0.5	1.7	0.0	216.4	161.7	160.7*			
Golden Harvest H-2641(sx)	2	25000	21.6	0.5	--	--	214.1	--	--			
Oro 190(sx)	2	24600	21.5	1.5	1.9	0.0	214.0	136.8	177.5**			
Oro Exp. 1008(sx)	3	26600	21.6	0.0	--	--	213.7	--	--			
Terra - TR 641E(sx)	2	24600	20.7	0.5	--	--	213.3	--	--			
Golden Harvest H-2544(sx)	1	25800	18.8	0.9	--	--	212.7	--	--			
Golden Harvest H-2525(sx)	1	24600	18.1	1.0	2.8	0.8	211.7	164.5	145.3			
Northrup King N7816(sx)	3	26400	20.9	1.0	--	0.0	211.2	--	139.8			
Bo-Jac 629(sx)	3	26000	21.3	4.2	--	--	211.0	--	--			
Terra - TR 1167(sx)	3	24300	20.9	1.5	--	--	210.1	--	--			
Merschman M-2121(sx)	1	23400	19.5	1.1	--	--	209.6	--	--			
Golden Harvest H-2592(sx)	2	24700	19.9	4.1	0.0	--	208.2	140.0	--			
MFA 3515(sx)	2	24800	20.1	0.5	0.3	0.0	207.9	166.1	160.2*			
Cargill 8177(sx)	2	24200	19.9	6.2	--	--	207.6	--	--			
Ciba Geigy G-4673B(sx)	3	21300	21.1	14.8	1.1	--	206.2	164.8	--			
Triumph 1270(sx)	1	22700	17.4	0.0	0.0	--	205.9	164.1	--			
ICI 8260(sx)	3	25800	22.1	1.5	--	--	205.5	--	--			
Golden Harvest H-2485(sx)	1	23800	17.3	0.0	--	--	204.8	--	--			
NC+ 7304(sx)	2	22400	20.1	3.0	2.0	--	204.2	153.9	--			
Triumph 2010(sx)	2	23200	21.6	3.7	--	--	203.5	--	--			
Dekalb DK646(sx)##	2	23800	19.3	1.1	1.7	--	203.1	160.3	--			
Dekalb DK711(sx)##	3	21300	22.8	2.3	6.9	0.0	202.6	148.7	162.5*			
Asgrow RX809(sx)	2	25200	19.9	3.3	--	--	201.5	--	--			
Northrup King N6330(sx)##	3	23200	17.6	1.1	0.6	--	201.0	174.8*	--			
MFA 3516(sx)	2	22400	18.2	6.8	0.3	0.9	199.7	164.8	152.8			
Stine 1180 Brand (sx)	2	21400	20.9	1.8	3.5	0.1	199.6	131.2	159.4*			
Northrup King N7768(sx)##	4	25700	21.0	1.9	3.9	--	199.3	153.4	--			
Dekalb DK671(sx)##	2	22700	19.7	0.5	5.5	--	199.2	136.1	--			
Golden Acres TE Ex. 9106(sx)	2	22100	21.3	1.7	--	--	196.0	--	--			
Golden Acres TE 9586(sx)	3	23100	23.6	41.9	--	--	193.1	--	--			
Northrup King PX9540(sx)##	3	22700	19.5	2.3	0.3	--	190.6	154.5	--			
Oro 188(sx)	2	23500	22.3	5.6	1.8	--	190.4	142.1	--			
MFA 6230X(sx)	2	23800	21.4	0.0	--	--	187.1	--	--			
Terra - TR 1160(sx)	3	22100	20.0	0.5	--	--	184.1	--	--			
Asgrow RX802(sx)	2	22400	19.6	0.6	--	--	183.0	--	--			
Golden Acres TE 7055(sx)	2	21500	19.6	0.0	1.0	0.5	181.6	154.9	157.1*			
Stine 1225 Brand(sx)	3	19200	23.2	0.6	--	--	181.1	--	--			
NC+ 6959(sx)	2	22200	20.1	0.0	--	--	176.8	--	--			
Terra - TR 621E(sx)	3	21400	20.7	0.0	--	--	171.5	--	--			
TRIAL AVERAGE		23837	20.2	2.7	1.7	0.6	206.1	155.4	148.4			
L.S.D. AT .05		3543	1.4	12.6	4.0	1.5	25.6	21.7	22.7			
C.V. %		9.3	4.2				7.7	8.6	9.4			

** Highest Yielding Hybrid in the test.
 * Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
 -- Data not available.
 ## Widely-grown hybrid.

TABLE 13. Performance record of Irrigated Corn Hybrids evaluated at two southwestern Missouri locations (Nevada and Lamar) during 1992.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Nevada	Lamar	Mean	Nevada	Lamar	Mean
Pioneer Hybrid 3162(sx)##	4	0.0	4.2	2.1	238.4*	242.5**	240.4**
Bo-Jac 7195(sx)	3	0.1	1.5	0.8	238.7**	219.8*	229.2*
Bo-Jac 925(sx)	3	0.9	0.9	0.9	227.0*	227.2*	227.1*
Asgrow RX899(sx)##	2	0.4	1.0	0.7	223.5*	226.9*	225.2*
Cargill 7997(sx)	2	0.9	0.5	0.7	225.0*	223.4*	224.2*
Pioneer Hybrid 3245(sx)##	4	0.5	1.0	0.8	227.3*	220.3*	223.8
Cargill 7877(sx)##	2	0.1	2.1	1.1	224.7*	218.5*	221.6
Oro Exp.1008(sx)	3	0.0	0.0	0.0	229.0*	213.7	221.4
Cargill 8427(sx)	2	1.7	0.5	1.1	226.2*	216.4	221.3
Pioneer Hybrid 3394(sx)##	3	0.9	1.0	1.0	222.1*	218.1*	220.1
Terra - TR 1145(sx)	2	0.9	4.9	2.9	219.4*	220.2*	219.8
Cargill 7697(sx)	2	0.4	0.5	0.4	219.4*	218.6*	219.0
Oro 190(sx)	2	0.0	1.5	0.8	223.0*	214.0	218.5
Golden Harvest H-2525(sx)	1	0.9	1.0	1.0	223.2*	211.7	217.4
Pioneer Hybrid 3317(sx)##	4	0.0	1.0	0.5	210.1	223.0*	216.6
Northrup King N7816(sx)	3	0.1	1.0	0.6	221.8*	211.2	216.5
MFA 4512(sx)	2	0.0	1.0	0.5	212.3	220.5*	216.4
Terra - TR 1167(sx)	3	0.0	1.5	0.8	222.3*	210.1	216.2
Bo-Jac 629(sx)	3	0.9	4.2	2.6	221.2*	211.0	216.1
Merschman M-2121(sx)	1	0.9	1.1	1.0	222.0*	209.6	215.8
NC+ 7304(sx)	2	0.4	3.0	1.7	225.0*	204.2	214.6
Golden Harvest H-2641(sx)	2	0.1	0.5	0.3	213.8	214.1	214.0
Terra - TR 641E(sx)	2	0.0	0.5	0.2	214.3	213.3	213.8
Cargill 8177(sx)	2	0.0	6.2	3.1	216.8	207.6	212.2
Dekalb DK646(sx)##	2	0.0	1.1	0.6	219.6*	203.1	211.4
Northrup King N7768(sx)##	4	0.0	1.9	1.0	222.9*	199.3	211.1
Golden Harvest H-2544(sx)	1	0.0	0.9	0.4	209.4	212.7	211.0
Golden Harvest H-2592(sx)	2	0.0	4.1	2.0	211.5	208.2	209.8
Triumph 2010(sx)	2	0.0	3.7	1.8	216.0	203.5	209.8
Northrup King N6330(sx)##	3	0.0	1.1	0.6	218.2	201.0	209.6
Dekalb DK671(sx)##	2	0.0	0.5	0.2	218.8	199.2	209.0
Ciba Geigy G-4673B(sx)	3	0.0	14.8	7.4	211.9	206.2	209.0
MFA 3515(sx)	2	0.0	0.5	0.2	209.2	207.9	208.6
Golden Harvest H-2485(sx)	1	0.0	0.0	0.0	212.3	204.8	208.6
Golden Acres TE 9586(sx)	3	1.5	41.9	21.7	223.6*	193.1	208.4
Asgrow RX809(sx)	2	0.0	3.3	1.6	214.2	201.5	207.8
Golden Acres TE Ex.9106(sx)	2	0.9	1.7	1.3	217.9	196.0	207.0
Stine 1180 Brand(sx)	2	0.0	1.8	0.9	213.5	199.6	206.6
Oro 188(sx)	2	0.5	5.6	3.0	220.9*	190.4	205.6
MFA 3516(sx)	2	0.1	6.8	3.4	211.3	199.7	205.5
Dekalb DK711(sx)##	3	0.0	2.3	1.2	208.0	202.6	205.3
Triumph 1270(sx)	1	0.0	0.0	0.0	200.6	205.9	203.2
ICI 8260(sx)	3	0.4	1.5	1.0	197.7	205.5	201.6
Asgrow RX802(sx)	2	0.5	0.6	0.6	218.1	183.0	200.6
Northrup King PX9540(sx)##	3	0.9	2.3	1.6	202.7	190.6	196.6
Terra - TR 1160(sx)	3	0.9	0.5	0.7	207.6	184.1	195.8
Golden Acres TE 7055(sx)	2	1.3	0.0	0.6	208.6	181.6	195.1
NC+ 6959(sx)	2	0.0	0.0	0.0	211.8	176.8	194.3
Terra - TR 621E(sx)	3	0.0	0.0	0.0	217.0	171.5	194.2
Stine 1225 Brand(sx)	3	0.6	0.6	0.6	199.7	181.1	190.4
MFA 6230X(sx)	2	0.0	0.0	0.0	178.9	187.1	183.0
TRIAL AVERAGE		0.3	2.7	1.5	216.6	206.1	211.4
L.S.D. AT .05		1.0	12.6	6.3	19.7	25.6	16.2
C.V. %					5.6	7.7	6.8

** Highest Yielding Hybrid in the test.

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

Widely-grown hybrid.

TABLE 14. Performance of Irrigated Corn Hybrids evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1990-92.

Planted: 6 April 1992
 Harvested: 11 September 1992
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=6.2, OM=2.1%, P=89, K=378

Fertilizer: N=225; P₂O₅=60; K₂O=60.
 Herbicide: Bullet
 Insecticide: Lorsban
 Irrigation: 4.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=2.5, May=2.1, June=3.7, July=5.9, Aug.=4.2, TOTAL=18.4".

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)		Moisture (%)		Lodging (%)			Yield (Bu/Acre)		
		1992	1992	1992	1991	1990	1992	1991	1990		
Pioneer Hybrid 3245(sx)##	4	21300	20.5	0.5	1.9	1.2	252.5**	242.0**	231.4*		
Triumph 2010(sx)	2	22200	20.2	0.0	--	--	249.2*	--	--		
Lynks 2829(sx)	2	22700	19.6	0.0	--	--	248.0*	--	--		
Oro 188(sx)	2	20500	22.2	0.5	13.6	--	245.1*	219.7*	--		
Asgrow RX919(sx)	3	21000	25.3	0.0	3.1	1.3	244.0*	220.0*	218.7		
Cargill 7997(sx)	2	22300	20.7	0.5	0.0	--	242.4*	241.9*	--		
AgraTech 787(sx)	2	20500	20.4	0.5	1.5	0.6	242.1*	236.7*	209.0		
Gro Agri GSC 4202(sx)	2	21300	21.5	0.0	--	--	240.0*	--	--		
Pioneer Hybrid 3140(sx)	4	22600	20.4	3.3	0.6	0.0	239.6*	232.3*	233.6*		
Northrup King N8811(sx)	4	20800	22.5	0.0	--	--	238.8*	--	--		
Gro Agri GSC 4192(sx)	2	20200	21.2	0.6	0.0	1.4	238.6*	203.7	244.4*		
Dekalb DK715(sx)	3	21500	23.1	0.0	2.0	--	238.1*	211.0	--		
HyPerformer HS 9843(sx)	3	22600	20.6	0.0	--	--	237.8*	--	--		
Cargill 8177(sx)	2	21100	19.8	0.5	--	--	237.4*	--	--		
Seed Source USQ 866(sx)	2	21400	22.9	5.1	--	--	237.4*	--	--		
NC+ 7304(sx)	2	19600	19.8	0.0	--	--	236.5*	--	--		
Pioneer Hybrid 3279(sx)	3	19500	19.8	0.0	--	--	236.2*	--	--		
Lynks 2868(sx)	3	24400	20.4	0.0	--	--	234.9*	--	--		
JMS 1170(sx)	2	20400	21.6	0.5	--	--	234.5*	--	--		
Deltapine 4581(sx)	1	21500	20.9	0.0	1.3	--	233.8*	234.8*	--		
Terra - TR 1167(sx)	3	22300	20.1	0.5	--	--	233.6*	--	--		
AgraTech 825(sx)	2	22100	21.1	0.0	1.3	1.7	233.4*	213.0	227.7		
HyPerformer HS 9773(sx)	2	22600	21.0	2.5	1.4	2.9	233.1*	200.4	231.1*		
Oro 190(sx)	2	22200	20.6	0.0	2.6	0.0	232.9*	172.5	241.0*		
Pioneer Hybrid 3394(sx)##	3	21500	18.8	0.6	0.0	--	232.8*	214.7	--		
Delta Genetics DG 192(sx)	4	21300	21.0	0.0	0.0	--	232.7*	215.2	--		
Cargill 7877(sx)##	2	21000	19.6	0.5	--	0.0	232.6*	--	240.9*		
Delta Genetics X1911(sx)	4	23400	22.4	7.6	--	--	232.5*	--	--		
Deltapine 8695(sx)	3	23600	22.6	2.0	--	--	232.3*	--	--		
Northrup King N7768(sx)##	4	20700	21.2	0.0	--	--	232.2*	--	--		
McCurdy 7477(sx)	1	21700	20.3	0.0	0.0	0.8	232.0*	222.2*	216.6		
AgraTech 660(sx)	2	22200	19.2	0.0	--	--	231.9*	--	--		
Northrup King N6330(sx)##	3	21600	18.3	0.0	0.0	--	231.7	213.1	--		
Crow's 488(sx)	1	23100	19.8	0.5	--	2.2	231.5	--	208.6		
Deltapine G-4673B(sx)	2	20900	22.4	1.2	2.4	--	231.2	234.8*	--		
Jacques 8510(sx)	2	23300	22.1	0.5	1.9	1.9	231.2	215.9	236.4*		
Oro Exp. 1008(sx)	3	20300	22.8	1.7	--	--	231.1	--	--		
ICI/Garst 8310(sx)	3	23600	19.4	0.5	--	--	230.9	--	--		
Triumph 1270(sx)	1	21400	19.0	0.0	0.5	2.5	230.8	212.8	223.6		
Crow's 670(sx)	1	22200	22.7	2.5	5.6	--	230.5	214.9	--		
McCurdy 7660(sx)	1	22700	22.0	0.0	1.2	2.6	230.5	227.7*	231.3*		
HyPerformer HS 9977(sx)	4	20800	24.1	0.0	--	--	230.5	--	--		
Terra - TR 641E(sx)	2	21800	20.9	0.5	--	--	230.3	--	--		
Deltapine 4450(sx)	2	20100	19.4	0.0	--	--	230.1	--	--		
AgraTech 757(sx)	2	21500	19.9	0.0	5.8	2.1	229.5	202.8	234.3*		
Dyna Gro 8116(sx)	2	21800	21.5	0.0	5.0	--	229.0	223.2*	--		
HyPerformer HS 9502(sx)	1	24100	18.7	0.0	--	--	228.7	--	--		
Stine 1181 Brand(sx)	2	21500	20.6	0.0	--	--	228.6	--	--		
Gro Agri GSC 4172(sx)	2	22100	22.4	5.3	7.1	--	228.6	215.2	--		
Cargill 7697(sx)	2	23300	19.5	2.6	1.2	--	228.6	214.4	--		
Crow's 669(sx)	2	20600	21.6	0.0	0.7	0.0	228.0	211.6	206.1		
Crow's 667(sx)	2	22700	19.6	0.0	--	--	228.0	--	--		
Vigoro KE 879011(sx)	4	21200	22.9	0.0	--	--	227.7	--	--		
Dekalb DK743(sx)	3	21200	23.1	0.6	1.9	--	227.5	217.3	--		
Delta Genetics DG 186(sx)	4	22700	21.1	0.0	0.6	0.1	226.6	227.8*	240.7*		
NC+ 6959(sx)	2	20400	20.3	0.0	--	--	225.9	--	--		
JMS 1190(sx)	2	20700	19.8	0.0	--	--	225.7	--	--		
Dyna Gro 5510(sx)	2	18900	21.0	0.5	--	--	225.1	--	--		

TABLE 14. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)			Yield (Bu/Acre)		
				1992	1991	1990	1992	1991	1990
McCurdy 7366(sx)	1	22600	20.6	0.0	--	--	224.5	--	--
Asgrow RX897(sx)	2	21800	21.3	0.0	--	--	224.3	--	--
Terra - TR 1160(sx)	3	20100	20.4	0.0	--	--	224.0	--	--
Jacques 8210(sx)	2	21100	21.5	0.0	--	0.4	223.7	--	222.6
Gro Agri GSC 4715(sx)	2	20400	21.3	1.8	--	1.5	223.0	--	225.6
Asgrow RX809(sx)	2	22600	20.8	1.1	--	--	222.2	--	--
MFA 4512(sx)	2	21600	18.9	0.0	1.2	--	221.8	209.8	--
Delta Genetics DG 185(sx)	3	21500	19.6	1.5	0.0	0.0	221.6	217.9	212.8
HyPerformer HS 9905(sx)	3	21400	22.1	0.0	--	--	221.5	--	--
JMS 1171(sx)	2	20300	21.1	0.0	0.6	--	221.0	236.7*	--
Vigoro KE 1182(sx)	4	21400	20.0	0.0	--	--	220.7	--	--
Dekalb DK671(sx)##	2	21100	22.4	0.0	2.3	--	220.5	229.7*	--
MFA 3516(sx)	2	22100	19.8	0.0	1.2	0.5	219.6	213.9	241.1*
Seed Source USN 316(sx)	2	21300	22.9	3.7	8.3	--	219.1	216.9	--
Northrup King PX9540(sx)##	3	19500	19.1	0.0	2.6	1.1	218.4	220.3*	235.7*
Delta Genetics X1447(sx)	4	21500	21.8	0.0	--	--	217.9	--	--
Cargill 9027(sx)	2	21500	22.3	1.1	9.9	0.1	216.8	223.5*	252.8*
Vigoro KE 1162(sx)	4	21600	22.4	0.0	--	--	216.0	--	--
Pioneer Hybrid 3165(sx)	4	20200	24.5	0.0	--	1.0	215.9	--	228.7
HyPerformer HS 9911(sx)	3	19200	21.8	0.0	4.0	0.8	215.5	216.4	221.6
Delta Genetics X1771(sx)	4	23300	22.3	3.3	--	--	214.7	--	--
Triumph 1630(sx)	1	21000	23.0	0.0	5.6	--	212.2	193.0	--
HyPerformer HS 9704(sx)	2	23300	20.6	0.0	1.4	--	211.7	173.2	--
ICI/Garst 8272(sx)	3	20400	20.6	0.0	--	--	211.5	--	--
Terra - TR 621E(sx)	3	21100	21.2	0.0	--	--	211.1	--	--
Deltapine 8620(sx)	2	22900	20.9	0.0	--	--	210.9	--	--
MFA 6230X(sx)	2	21000	22.1	0.0	--	--	210.7	--	--
MFA 3515(sx)	2	19600	19.7	0.0	1.7	0.5	209.1	205.1	233.6*
TRIAL AVERAGE		21534	21.1	0.6	3.2	1.0	228.6	213.3	225.4
L.S.D. AT .05		2940	3.9	3.0	9.9	1.9	20.6	23.7	28.2
C.V. %		8.4	1.3				5.6	6.9	7.7

** Highest Yielding Hybrid in the test.

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

-- Data not available.

Widely-grown hybrid.

TABLE 15. Performance of Irrigated Corn Hybrids evaluated near New Madrid (News Madrid County) on the Craig Hunter Farm during 1991-92 and near Sikeston (Stoddard County) on the Johnny Hunter Farm during 1990.

Planted: 6 April 1992
 Harvested: 10 September 1992
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=6.1, OM=1.4%, P=127, K=472

Fertilizer: N=260; P₂O₅=90; K₂O=120.
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 3.00 inches
 Previous Crop: Corn

Growing Season Rainfall: Apr.=2.9, May=2.2, June=4.6, July=3.0, Aug.=2.4, TOTAL=15.1".

Brand-Hybrid	Mat- urity Group	Plants		Moisture		Lodging		Yield		
		(#/Acre)	(%)	(%)	(%)	1991	1990	1992	1991	1990
Pioneer Hybrid 3394(sx)##	3	26000	17.0	4.7	3.8	--	--	200.4**	185.9	--
Oro 190(sx)	2	27300	18.8	5.2	0.5	0.0	--	200.2*	173.8	201.1*
Cargill 7997(sx)	2	25500	18.4	5.3	2.0	--	--	199.8*	186.9	--
AgraTech 757(sx)	2	26500	18.4	3.9	2.4	0.0	--	199.5*	181.5	215.2*
HyPerformer HS 9502(sx)	1	24600	16.8	5.8	--	--	--	197.1*	--	--
Asgrow RX897(sx)	2	25800	18.2	5.5	--	--	--	196.4*	--	--
Terra - TR 1167(sx)	3	26300	18.7	2.2	--	--	--	195.9*	--	--
Vigoro KE 879011(sx)	4	27500	20.7	1.1	--	--	--	195.3*	--	--
Delta Genetics DG 192(sx)	4	27200	16.3	4.3	2.3	--	--	194.9*	177.7	--
Delta Genetics X1911(sx)	4	25400	19.2	1.4	--	--	--	194.5*	--	--
Stine 1181 Brand(sx)	2	25700	18.4	2.9	--	--	--	192.7*	--	--
Triumph 2010(sx)	2	27400	19.0	2.5	--	--	--	192.2*	--	--
Oro 188(sx)	2	26600	21.4	15.2	6.1	--	--	191.7*	167.7	--
Crow's 488(sx)	1	25600	17.2	8.3	--	0.5	--	191.6*	--	168.3
Crow's 669(sx)	2	29000	17.7	8.0	3.0	0.0	--	191.6*	179.5	212.1*
NC+ 6959(sx)	2	26500	18.3	3.1	--	--	--	191.3*	--	--
MFA 6230X(sx)	2	25500	18.9	5.1	--	--	--	191.2*	--	--
Cargill 9027(sx)	2	25300	19.7	1.5	5.8	1.8	--	190.9*	157.4	222.0**
Jacques 8210(sx)	2	25200	18.4	6.6	--	0.0	--	189.4*	--	200.0*
HyPerformer HS 9905(sx)	3	25800	19.3	3.0	--	--	--	189.3*	--	--
Deltapine G-4673B(sx)	2	25400	18.4	2.6	6.1	--	--	189.1*	185.4	--
ICI/Garst 8310(sx)	3	27200	17.0	4.7	--	--	--	188.9*	--	--
Dekalb DK671(sx)##	2	25000	18.2	4.9	3.0	--	--	188.8*	165.8	--
Deltapine 8620(sx)	2	25300	19.3	6.4	--	--	--	188.8*	--	--
Delta Genetics DG 186(sx)	4	26500	19.2	2.8	3.1	0.0	--	188.7*	177.0	188.1
HyPerformer HS 9977(sx)	4	26100	20.9	6.6	--	--	--	188.6*	--	--
AgraTech 660(sx)	2	26300	17.9	2.9	--	--	--	187.9*	--	--
Pioneer Hybrid 3245(sx)##	4	24700	17.6	34.0	2.3	0.0	--	187.4*	188.3	196.8*
Northrup King N6330(sx)##	3	26400	16.6	6.9	3.5	--	--	186.8*	163.1	--
Terra - TR 641E(sx)	2	24900	19.7	7.5	--	--	--	186.5*	--	--
McCurdy 7366(sx)	1	26700	19.0	2.7	--	--	--	185.8*	--	--
Gro Agri GSC 4192(sx)	2	26800	19.4	5.2	4.1	0.5	--	185.7*	183.1	195.1*
Asgrow RX809(sx)	2	27800	16.7	4.8	--	--	--	184.3*	--	--
Crow's 667(sx)	2	29200	17.7	6.6	--	--	--	184.2*	--	--
McCurdy 7477(sx)	1	27500	20.1	5.4	1.5	0.0	--	183.5*	190.5	201.6*
AgraTech 787(sx)	2	26000	18.3	21.1	1.9	1.0	--	183.4*	170.1	213.4*
Deltapine 4581(sx)	1	25200	17.6	7.0	3.1	--	--	183.2*	177.8	--
Lynks 2868(sx)	3	25400	18.2	7.3	--	--	--	182.7*	--	--
Gro Agri GSC 4202(sx)	2	26000	18.6	11.2	--	--	--	182.6*	--	--
Vigoro KE 1182(sx)	4	25000	17.7	2.4	--	--	--	181.9*	--	--
Triumph 1270(sx)	1	26200	17.6	4.8	4.1	0.6	--	181.8*	175.3	184.6
JMS 1170(sx)	2	24900	18.8	9.2	--	--	--	181.7*	--	--
Triumph 1630(sx)	1	23800	20.1	6.3	1.3	--	--	181.6*	161.7	--
JMS 1171(sx)	2	24600	18.2	27.2	4.0	--	--	181.6*	167.4	--
Dyna Gro 5510(sx)	2	22000	18.6	8.3	--	--	--	181.5*	--	--
Pioneer Hybrid 3165(sx)	4	26500	20.6	22.9	--	0.0	--	181.5*	--	200.6*
Dekalb DK715(sx)	3	25300	19.2	1.3	1.7	--	--	181.3*	185.8	--
Jacques 8510(sx)	2	25800	21.8	2.9	5.5	1.1	--	181.1*	196.7**	198.9*
Oro Exp. 1008(sx)	3	28000	20.5	2.1	--	--	--	180.6*	--	--
HyPerformer HS 9704(sx)	2	26200	18.4	2.0	2.9	--	--	180.6*	174.7	--
MFA 4512(sx)	2	25700	17.1	5.5	7.2	--	--	180.6*	167.2	--
Lynks 2829(sx)	2	24700	17.5	5.4	--	--	--	179.9*	--	--
AgraTech 825(sx)	2	28300	19.6	3.3	2.3	0.0	--	179.3*	176.4	200.6*
Dyna Gro 8116(sx)	2	25000	17.9	1.9	1.0	--	--	179.1*	172.1	--
Delta Genetics X1447(sx)	4	25100	18.7	5.1	--	--	--	179.0*	--	--
Crow's 670(sx)	1	22000	18.9	36.4	11.0	--	--	178.8*	153.8	--
Deltapine 4450(sx)	2	25700	16.6	5.4	--	--	--	177.8*	--	--
Pioneer Hybrid 3140(sx)	4	25900	17.9	6.5	3.1	3.3	--	177.6*	157.0	211.6*

TABLE 15. Continued.

Brand-Hybrid	Mat- urity Group	Plants Moisture		Lodging			Yield		
		(#/Acre)	(%)	(%)	1991	1990	(Bu/Acre)	1991	1990
Gro Agri GSC 4172(sx)	2	26800	20.7	11.9	9.4	--	177.6*	164.5	--
Northrup King N7768(sx)##	4	27300	19.5	9.8	--	--	177.5*	--	--
JMS 1190(sx)	2	27000	16.9	3.2	--	--	174.2	--	--
Seed Source USN 316(sx)	2	26000	19.2	6.3	3.6	--	173.9	168.5	--
Gro Agri GSC 4715(sx)	2	25400	20.0	5.5	--	2.3	173.8	--	183.6
Northrup King N8811(sx)	4	28400	20.9	9.1	--	--	173.6	--	--
Dekalb DK743(sx)	3	27200	21.7	4.0	1.7	--	173.5	156.6	--
Seed Source USQ 866(sx)	2	25500	19.5	18.1	--	--	173.4	--	--
Asgrow RX919(sx)	3	25800	19.4	26.1	2.4	0.0	173.0	167.0	204.9*
Cargill 7877(sx)##	2	25600	15.9	8.4	--	0.5	171.9	--	171.5
Pioneer Hybrid 3279(sx)	3	26500	16.7	6.7	--	--	171.6	--	--
MFA 3515(sx)	2	26200	17.2	13.7	7.4	1.8	171.4	162.8	190.0
HyPerformer HS 9843(sx)	3	28400	20.2	7.0	--	--	171.1	--	--
HyPerformer HS 9911(sx)	3	25800	21.3	6.3	3.7	0.0	170.1	157.0	208.9*
NC + 7304(sx)	2	26900	17.7	10.8	--	--	169.9	--	--
Terra - TR 621E(sx)	3	25800	19.6	5.2	--	--	169.6	--	--
Cargill 7697(sx)	2	27100	18.6	2.8	3.9	--	169.5	175.1	--
Terra - TR 1160(sx)	3	25700	17.9	2.9	--	--	169.3	--	--
Cargill 8177(sx)	2	25400	18.7	13.5	--	--	168.6	--	--
Northrup King PX9540(sx)##	3	22700	17.5	9.2	5.0	0.0	168.1	153.4	176.4
McCurdy 7660(sx)	1	25700	19.1	5.3	3.4	0.0	167.2	179.6	192.2
HyPerformer HS 9773(sx)	2	27800	17.3	28.2	6.2	0.0	166.7	147.2	171.3
ICI/Garst 8272(sx)	3	29100	18.0	14.9	--	--	164.2	--	--
Deltapine 8695(SX)	3	23500	22.5	6.5	--	--	163.7	--	--
Vigoro KE 1162(sx)	4	24700	19.7	28.5	--	--	163.6	--	--
MFA 3516(sx)	2	26400	17.2	10.0	2.3	0.0	161.5	180.6	168.6
Delta Genetics DG 185(sx)	3	26000	17.0	14.5	3.2	0.4	161.5	179.9	208.8*
Delta Genetics X1771(sx)	4	26300	19.6	2.2	--	--	160.4	--	--
TRIAL AVERAGE		26032	18.7	8.1	3.9	0.7	181.4	171.0	188.9
L.S.D. AT .05		2944	1.7	13.6	5.1	2.5	26.6	NS	28.7
C.V. %		7.0	5.8				9.2	11.0	9.4

** 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 16. Performance record of Irrigated Corn Hybrids evaluated at two southeast Missouri locations (Oran and New Madrid) during 1992.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Oran Planted: 6 April 1992 Harvested: 11 September 1992 Growing Season Rainfall: 18.4 inches. Irrigation: 4.00 inches		New Madrid Planted: 6 April 1992. Harvested: 10 September 1992 Growing Season Rainfall: 15.1 inches. Irrigation: 3.00 inches					
Cargill 7997(sx)	2	0.5	5.3	2.9	242.4*	199.8*	221.1**
Triumph 2010(sx)	2	0.0	2.5	1.2	249.2*	192.2*	220.7*
Pioneer Hybrid 3245(sx)##	4	0.5	34.0	17.2	252.5**	187.4*	220.0*
Oro 188(sx)	2	0.5	15.2	7.8	245.1*	191.7*	218.4*
Pioneer Hybrid 3394(sx)##	3	0.6	4.7	2.6	232.8*	200.4**	216.6*
Oro 190(sx)	2	0.0	5.2	2.6	232.9*	200.2*	216.6*
Terra - TR 1167(sx)	3	0.5	2.2	1.4	233.6*	195.9*	214.8*
AgraTech 757(sx)	2	0.0	3.9	2.0	229.5	199.5*	214.5*
Lynks 2829(sx)	2	0.0	5.4	2.7	248.0*	179.9*	214.0*
Delta Genetics DG 192(sx)	4	0.0	4.3	2.2	232.7*	194.9*	213.8*
Delta Genetics X1911(sx)	4	7.6	1.4	4.5	232.5*	194.5*	213.5*
HyPerformer HS 9502(sx)	1	0.0	5.8	2.9	228.7	197.1*	212.9*
AgraTech 787(sx)	2	0.5	21.1	10.8	242.1*	183.4*	212.8*
Gro Agri GSC 4192(sx)	2	0.6	5.2	2.9	238.6*	185.7*	212.2*
Crow's 488(sx)	1	0.5	8.3	4.4	231.5	191.6*	211.6*
Vigoro KE 879011(sx)	4	0.0	1.1	0.6	227.7	195.3*	211.5*
Gro Agri GSC 4202(sx)	2	0.0	11.2	5.6	240.0*	182.6*	211.3*
Stine P181 Brand(sx)	2	0.0	2.9	1.4	228.6	192.7*	210.6*
Asgrow RX897(sx)	2	0.0	5.5	2.8	224.3	196.4*	210.4*
Deltapine G-4673B(sx)	2	1.2	2.6	1.9	231.2	189.1*	210.2*
AgraTech 660(sx)	2	0.0	2.9	1.4	231.9*	187.9*	209.9*
ICI/Garst 8310(sx)	3	0.5	4.7	2.6	230.9	188.9*	209.9*
Crow's 669(sx)	2	0.0	8.0	4.0	228.0	191.6*	209.8*
Dekalb DK715(sx)	3	0.0	1.3	0.6	238.1*	181.3*	209.7*
HyPerformer HS 9977(sx)	4	0.0	6.6	3.3	230.5	188.6*	209.6*
Northrup King N6330(sx)##	3	0.0	6.9	3.4	231.7	186.8*	209.2*
Lynks 2868(sx)	3	0.0	7.3	3.6	234.9*	182.7*	208.8*
NC+ 6959(sx)	2	0.0	3.1	1.6	225.9	191.3*	208.6*
Pioneer Hybrid 3140(sx)	4	3.3	6.5	4.9	239.6*	177.6*	208.6*
Asgrow RX919(sx)	3	0.0	26.1	13.0	244.0*	173.0	208.5*
Deltapine 4581(sx)	1	0.0	7.0	3.5	233.8*	183.2*	208.5*
Terra - TR 641E(sx)	2	0.5	7.5	4.0	230.3	186.5*	208.4*
JMS 1170(sx)	2	0.5	9.2	4.8	234.5*	181.7*	208.1*
McCurdy 7477(sx)	1	0.0	5.4	2.7	232.0*	183.5*	207.8*
Delta Genetics DG 186(sx)	4	0.0	2.8	1.4	226.6	188.7*	207.6*
Jacques 8210(sx)	2	0.0	6.6	3.3	223.7	189.4*	206.6*
AgraTech 825(sx)	2	0.0	3.3	1.6	233.4*	179.3*	206.4*
Triumph 1270(sx)	1	0.0	4.8	2.4	230.8	181.8*	206.3*
Jacques 8510(sx)	2	0.5	2.9	1.7	231.2	181.1*	206.2*
Northrup King N8811(sx)	4	0.0	9.1	4.6	238.8*	173.6	206.2*
Crow's 667(sx)	2	0.0	6.6	3.3	228.0	184.2*	206.1*
Oro Exp. 1008(sx)	3	1.7	2.1	1.9	231.1	180.6*	205.8*
HyPerformer HS 9905(sx)	3	0.0	3.0	1.5	221.5	189.3*	205.4*
Seed Source USQ 866(sx)	2	5.1	18.1	11.6	237.4*	173.4	205.4*
McCurdy 7366(sx)	1	0.0	2.7	1.4	224.5	185.8*	205.2*
Northrup King N7768(sx)##	4	0.0	9.8	4.9	232.2*	177.5*	204.8*
Dekalb DK671(sx)##	2	0.0	4.9	2.4	220.5	188.8*	204.6*
Crow's 670(sx)	1	2.5	36.4	19.4	230.5	178.8*	204.6*
HyPerformer HS 9843(sx)	3	0.0	7.0	3.5	237.8*	171.1	204.4*
Deltapine 4450(sx)	2	0.0	5.4	2.7	230.1	177.8*	204.0
Dyna Gro 8116(sx)	2	0.0	1.9	1.0	229.0	179.1*	204.0
Pioneer Hybrid 3279(sx)	3	0.0	6.7	3.4	236.2*	171.6	203.9
Cargill 9027(sx)	2	1.1	1.5	1.3	216.8	190.9*	203.8
Dyna Gro 5510(sx)	2	0.5	8.3	4.4	225.1	181.5*	203.3
NC+ 7304(sx)	2	0.0	10.8	5.4	236.5*	169.9	203.2
Asgrow RX809(sx)	2	1.1	4.8	3.0	222.2	184.3*	203.2
Gro Agri GSC 4172(sx)	2	5.3	11.9	8.6	228.6	177.6*	203.1
Cargill 8177(sx)	2	0.5	13.5	7.0	237.4*	168.6	203.0

TABLE 16. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Cargill 7877(sx)##	2	0.5	8.4	4.4	232.6*	171.9	202.2
Vigoro KE 1182(sx)	4	0.0	2.4	1.2	220.7	181.9*	201.3
JMS 1171(sx)	2	0.0	27.2	13.6	221.0	181.6*	201.3
MFA 4512(sx)	2	0.0	5.5	2.8	221.8	180.6*	201.2
MFA 6230X(sx)	2	0.0	5.1	2.6	210.7	191.2*	201.0
Dekalb DK743(sx)	3	0.6	4.0	2.3	227.5	173.5	200.5
JMS 1190(sx)	2	0.0	3.2	1.6	225.7	174.2*	200.0
HyPerformer HS 9773(sx)	2	2.5	28.2	15.4	233.1*	166.7	199.9
Deltapine 8620(sx)	2	0.0	6.4	3.2	210.9	188.8*	199.8
Cargill 7697(sx)	2	2.6	2.8	2.7	228.6	169.5	199.0
McCurdy 7660(sx)	1	0.0	5.3	2.6	230.5	167.2	198.8
Pioneer Hybrid 3165(sx)	4	0.0	22.9	11.4	215.9	181.5*	198.7
Delta Genetics X1447(sx)	4	0.0	5.1	2.6	217.9	179.0*	198.4
Gro Agri GSC 4715(sx)	2	1.8	5.5	3.6	223.0	173.8*	198.4
Deltapine 8695(sx)	3	2.0	6.5	4.2	232.3*	163.7	198.0
Triumph 1630(sx)	1	0.0	6.3	3.2	212.2	181.6*	196.9
Terra - TR 1160(sx)	3	0.0	2.9	1.4	224.0	169.3	196.6
Seed Source USN 316(sx)	2	3.7	6.3	5.0	219.1	173.9*	196.5
HyPerformer HS 9704(sx)	2	0.0	2.0	1.0	211.7	180.6*	196.2
Northrup King PX9540(sx)##	3	0.0	9.2	4.6	218.4	168.1	193.2
HyPerformer HS 9911(sx)	3	0.0	6.3	3.2	215.5	170.1	192.8
Delta Genetics DG 185(sx)	3	1.5	14.5	8.0	221.6	161.5	191.6
MFA 3516(sx)	2	0.0	10.0	5.0	219.6	161.5	190.6
Terra - TR 621E(sx)	3	0.0	5.2	2.6	211.1	169.6	190.4
MFA 3515(sx)	2	0.0	13.7	6.8	209.1	171.4	190.2
Vigoro KE 1162(sx)	4	0.0	28.5	14.2	216.0	163.6	189.8
ICI/Garst 8272(sx)	3	0.0	14.9	7.4	211.5	164.2	187.8
Delta Genetics X1771(sx)	4	3.3	2.2	2.8	214.7	160.4	187.6
TRIAL AVERAGE		0.6	8.1	4.3	228.6	181.4	205.0
L.S.D. AT .05		3.0	13.6	6.9	20.6	26.6	16.7
C.V. %					5.6	9.2	7.2

** Highest Yielding Hybrid in the test.

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

Widely-grown hybrid.

TABLE 17. Performance of Early Maturing Corn Hybrids (90-100 day relative maturity) evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1990-92.

Planted: 29 April 1992
 Harvested: 28 September 1992
 Planted Population: 28,000
 Row Spacing: 30 inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=6.1, OM=3.9%, P=93, K=519

Fertilizer: N=285; P₂O₅=100; K₂O=100.
 Herbicide: Lariat
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Corn

Growing Season Rainfall: Apr.=3.0, May=0.9, June=2.4, July=8.4, Aug.=2.4, TOTAL=17.1".

Brand-Hybrid	Moisture (%)		Lodging (%)		Yield (Bu/Acre)		
	1992	1992	1991	1990	1992	1991	1990
Dyna-Gro 5470(sx)	18.6	2.7	--	--	221.3**	--	--
Pioneer Hybrid 3563(sx)	17.4	9.1	--	--	216.1*	--	--
Terra - TR 600E(sx)	18.8	1.3	--	--	210.1*	--	--
Lewis 4311(sx)	19.7	16.7	--	--	204.9*	--	--
Pioneer Hybrid 3737(sx)	16.7	7.3	0.7	11.0	200.6*	168.8*	117.2
Dyna-Gro 5351(sx)	17.7	0.0	--	--	199.7*	--	--
Dekalb DK535(sx)	16.8	1.0	0.3	3.0	199.4*	168.4*	169.1*
Terra - TR 1030(sx)	17.9	7.0	--	--	185.7	--	--
Dyna-Gro 5410(sx)	19.1	3.9	--	--	184.8	--	--
Bo-Jac 138(sx)	17.6	4.4	--	--	181.2	--	--
Stine 992 Brand(sx)	16.7	1.7	--	--	180.8	--	--
ICL/Garst 8599(sx)	18.9	2.3	--	--	180.2	--	--
MFA 2170X(sx)	16.6	4.4	--	--	179.6	--	--
Golden Harvest H-2390(sx)	18.2	1.1	0.0	--	179.4	153.4	--
Federal Hybrid FX29(sx)	17.2	8.7	--	--	179.0	--	--
Pioneer Hybrid 3751(sx)	17.5	22.8	0.8	4.7	176.7	168.8*	127.5
Golden Harvest H-2404(sx)	18.7	1.1	0.7	5.7	175.2	153.8	151.3
Cargill 5327(sx)	18.8	1.6	1.1	3.0	175.1	146.4	167.0*
Cargill 3427(sx)	17.1	5.1	--	--	174.1	--	--
Cargill 4327(sx)	18.8	3.2	0.8	3.5	172.5	167.5*	170.9**
Northrup King N4242(sx)	18.3	5.8	--	--	170.6	--	--
Dekalb DK584(sx)	19.3	3.6	0.0	--	169.7	164.6*	--
Pioneer Hybrid 3733(sx)	17.6	1.3	0.4	--	168.7	170.7*	--
Pioneer 3379(sx)##	20.0	2.3	0.0	4.5	199.2*	167.5*	165.8*
TRIAL AVERAGE	18.1	4.9	0.6	5.2	186.9	163.8	154.0
L.S.D. AT .05	1.3	2.8	NS	4.7	25.5	21.5	16.2
C.V. %	5.1				9.6	9.2	8.3

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

TABLE 18. Performance of Early Maturing Corn Hybrids (90-100 day relative maturity) evaluated near Columbia (Boone County) on the Agronomy Research Center during 1990-92.

Planted: 8 April 1992
 Harvested: 14 September 1992
 Planted Population: 28,000
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=5.6, OM=1.1%, P=125, K=393

Fertilizer: N=200; P₂O₅=200; K₂O=200.
 Herbicide: Dual + Bladex + Aatrex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=3.0, May=2.0, June=1.6, July=6.1, Aug.=1.3, TOTAL=14.0".

Brand-Hybrid	Moisture (%)		Lodging (%)		Yield (Bu/Acre)		
	1992	1992	1991	1990	1992	1991	1990
Dyna-Gro 5470(sx)	22.8	0.3	--	--	216.7**	--	--
Cargill 5327(sx)	20.9	0.3	1.3	0.3	202.3*	116.5	186.3*
Pioneer Hybrid 3563(sx)	19.7	2.0	--	--	202.3*	--	--
Dekalb DK535(sx)	19.6	0.0	1.9	0.0	197.6*	121.2	182.2*
Lewis 4311(sx)	22.7	1.1	--	--	196.3*	--	--
Terra - TR 600E(sx)	23.4	1.0	--	--	191.7	--	--
Dekalb DK584(sx)	22.8	0.3	0.4	--	188.0	126.1**	--
Golden Harvest H-2390(sx)	18.5	0.3	2.3	--	186.8	105.9	--
Cargill 4327(sx)	20.6	1.0	1.3	0.0	184.4	110.2	164.5
Bo-Jac 138(sx)	20.2	0.7	--	--	182.8	--	--
Pioneer Hybrid 3751(sx)	18.0	1.0	1.6	0.0	182.4	109.9	173.7
Dyna-Gro 5410(sx)	23.2	3.1	--	--	181.6	--	--
Northrup King N4242(sx)	19.0	0.0	--	--	178.9	--	--
Terra - TR 1030(sx)	19.2	0.0	--	--	175.4	--	--
Golden Harvest H-2404(sx)	19.4	0.0	0.3	0.3	174.1	109.1	175.9
Pioneer Hybrid 3733(sx)	18.3	0.0	0.7	--	173.4	119.0	--
Dyna-Gro 5351(sx)	23.1	0.0	--	--	171.4	--	--
ICI/Garst 8599(sx)	19.7	0.6	--	--	171.2	--	--
Pioneer Hybrid 3737(sx)	17.5	1.0	0.3	0.3	167.6	119.7	170.8
Stine 992 Brand(sx)	18.6	1.1	--	--	166.0	--	--
Federal Hybrid FX29(sx)	19.6	2.5	--	--	165.9	--	--
MFA 2170X(sx)	16.4	0.0	--	--	164.9	--	--
Cargill 3427(sx)	17.9	0.6	--	--	163.4	--	--
Pioneer 3379(sx)##	25.6	0.0	0.7	0.4	192.4	121.0	173.1
TRIAL AVERAGE	20.3	0.7	1.2	0.1	182.4	115.2	173.3
L.S.D. AT .05	1.7	1.8	NS	0.4	22.5	NS	11.4
C.V. %	6.4				7.6	10.2	5.2

** 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.

TABLE 19. Performance of Early Maturing Corn Hybrids (90-100 day relative maturity) evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1991-92 and near Mt. Vernon (Lawrence County) on the Southwest Center during 1990.

Planted: 27 March 1992
 Harvested: 17 September 1992
 Planted Population: 28,000
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.1, OM=1.4%, P=129, K=308

Fertilizer: N=250; P₂O₅=0; K₂O=100.
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=4.3, May=5.5, June=4.5, July=18.3, Aug.=1.9, TOTAL=34.5".

Brand-Hybrid	Moisture (%)		Lodging (%)		Yield (Bu/Acre)		
	1992	1992	1991	1990	1992	1991	1990
Pioneer Hybrid 3563(sx)	17.2	1.0	--	--	228.6**	--	--
Lewis 4311(sx)	17.7	2.3	--	--	223.4*	--	--
Dyna-Gro 5470(sx)	18.1	1.6	--	--	219.1*	--	--
Terra - TR 600E(sx)	18.6	0.3	--	--	216.1*	--	--
Cargill 4327(sx)	18.7	3.9	5.0	2.0	203.6	3.9	164.1
Cargill 3427(sx)	15.7	0.3	--	--	203.4	--	--
Dekalb DK535(sx)	17.6	1.3	14.4	1.8	201.6	6.6	165.2
Dekalb DK584(sx)	18.7	0.6	10.9	--	199.5	8.2	--
Pioneer Hybrid 3737(sx)	15.1	3.2	5.9	3.0	198.9	14.9*	143.7
Golden Harvest H-2390(sx)	16.1	1.0	7.5	--	198.9	8.8	--
Stine 992 Brand(sx)	15.8	0.7	--	--	197.4	--	--
IC1/Garst 8599(sx)	16.2	0.4	--	--	194.6	--	--
Terra - TR 1030(sx)	15.8	2.7	--	--	192.7	--	--
Dyna-Gro 5351(sx)	17.8	1.6	--	--	189.6	--	--
Cargill 5327(sx)	18.2	0.3	6.6	1.1	188.0	1.7	169.1
Northrup King N4242(sx)	15.9	1.3	--	--	187.4	--	--
MFA 2170X(sx)	15.3	3.0	--	--	186.9	--	--
Pioneer Hybrid 3751(sx)	18.7	1.9	5.3	1.0	186.1	18.7*	161.2
Pioneer Hybrid 3733(sx)	16.4	1.6	3.8	--	186.1	21.4**	--
Bo-Jac 138(sx)	15.6	2.6	--	--	183.4	--	--
Golden Harvest H-2404(sx)	16.5	0.7	10.9	3.2	182.3	19.6*	147.0
Federal Hybrid FX29(sx)	15.9	4.7	--	--	175.0	--	--
Dyna-Gro 5410(sx)	19.0	1.7	--	--	145.6	--	--
Pioneer 3379(sx)##	17.4	1.1	59.7	1.1	204.6	15.4*	182.4*
TRIAL AVERAGE	17.0	1.7	15.5	2.1	195.5	8.6	162.3
L.S.D. AT .05	1.5	NS	16.4	3.1	18.1	11.2	17.1
C.V. %	6.2				6.6	87.2	8.4

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

TABLE 20. 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 1992.

Brand-Hybrid	Lodging (%)				Yield (Bu/Acre)			
	Marshall	Columbia	Lamar	Mean	Marshall	Columbia	Lamar	Mean
Dyna-Gro 5470(sx)	2.7	0.3	1.6	1.5	221.3**	216.7**	219.1*	219.0**
Pioneer Hybrid 3563(sx)	9.1	2.0	1.0	4.0	216.1*	202.3*	228.6**	215.7*
Lewis 4311(sx)	16.7	1.1	2.3	6.7	204.9*	196.3*	223.4*	208.2*
Terra - TR 600E(sx)	1.3	1.0	0.3	0.9	210.1*	191.7	216.1*	206.0
Dekalb DK535(sx)	1.0	0.0	1.3	0.8	199.4*	197.6*	201.6	199.5
Pioneer Hybrid 3737(sx)	7.3	1.0	3.2	3.8	200.6*	167.6	198.9	189.0
Cargill 5327(sx)	1.6	0.3	0.3	0.7	175.1	202.3*	188.0	188.5
Golden Harvest H-2390(sx)	1.1	0.3	1.0	0.8	179.4	186.8	198.9	188.4
Dyna-Gro 5351(sx)	0.0	0.0	1.6	0.5	199.7*	171.4	189.6	186.9
Cargill 4327(sx)	3.2	1.0	3.9	2.7	172.5	184.4	203.6	186.8
Dekalb DK584(sx)	3.6	0.3	0.6	1.5	169.7	188.0	199.5	185.7
Terra - TR 1030(sx)	7.0	0.0	2.7	3.2	185.7	175.4	192.7	184.6
Bo-Jac 138(sx)	4.4	0.7	2.6	2.6	181.2	182.8	183.4	182.5
ICl/Garst 8599(sx)	2.3	0.6	0.4	1.1	180.2	171.2	194.6	182.0
Pioneer Hybrid 3751(sx)	22.8	1.0	1.9	8.6	176.7	182.4	186.1	181.7
Stine 992 Brand(sx)	1.7	1.1	0.7	1.2	180.8	166.0	197.4	181.4
Cargill 3427(sx)	5.1	0.6	0.3	2.0	174.1	163.4	203.4	180.3
Northrup King N4242(sx)	5.8	0.0	1.3	2.4	170.6	178.9	187.4	179.0
Golden Harvest H-2404(sx)	1.1	0.0	0.7	0.6	175.2	174.1	182.3	177.2
MFA 2170X(sx)	4.4	0.0	3.0	2.5	179.6	164.9	186.9	177.1
Pioneer Hybrid 3733(sx)	1.3	0.0	1.6	1.0	168.7	173.4	186.1	176.1
Federal Hybrid FX29(sx)	8.7	2.5	4.7	5.3	179.0	165.9	175.0	173.3
Dyna-Gro 5410(sx)	3.9	3.1	1.7	2.9	184.8	181.6	145.6	170.7
Pioneer 3379(sx)##	2.3	0.0	1.1	1.1	199.2*	192.4	204.6	198.7
TRIAL AVERAGE	4.9	0.7	1.7	2.4	186.9	182.4	195.5	188.3
L.S.D. AT .05	2.8	1.8	NS	2.5	25.5	22.5	18.1	12.1
C.V. %					9.6	7.6	6.6	8.0

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

TABLE 21. Performance of Irrigated Popcorn Hybrids evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1990-92.

Planted: 6 April 1992
 Harvested: 11 September 1992
 Planted Population: 29200
 Soil Type: Commerce Silt Loam
 Soil Test: pH=6.2, OM=2.2%, P=76, K=265

Fertilizer: N=180; P₂O₅=60; K₂O=60.
 Herbicide: Bullet
 Insecticide: Lorsban
 Irrigation: 4.0 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=2.5, May=2.1, June=3.7, July=5.9, Aug.=4.2, TOTAL=18.4".

Brand-Hybrid	Plants	Moisture	Lodging			Yield		
	(#/Acre)	(%)	1992 +	1991	1990	1992	1991	1990
McHone M31601	17308	16.5	11.4	--	--	7896**	--	--
Purdue 32208	18237	17.2	8.5	6.5	--	6741	5096	--
Ames A5012	18934	16.7	7.6	--	--	6106	--	--
Purdue P-612	17772	15.6	5.8	42.0	--	6091	4294	--
Robust 88429	18469	15.1	10.7	52.1	--	5929	4864	--
Ames A5501	17076	15.7	9.4	--	--	5783	--	--
Purdue P-613	18934	15.9	11.9	14.5	--	5585	5095	--
McHone M118	20909	15.9	7.4	53.7	4.4	5415	4335	4650
Purdue 62217	17889	14.9	3.4	6.8	--	5412	4401	--
McHone M6259	12894	15.9	18.3	54.0	9.8	5385	5754*	4973*
Robust 20-70	19515	14.9	2.9	--	--	5373	--	--
Purdue 92262	15449	16.9	4.5	4.4	--	5365	4278	--
Purdue 92266	13823	17.6	10.8	--	--	5307	--	--
McHone M910	17656	15.6	9.3	52.1	5.2	5281	4448	4670*
Ames A3302	17656	15.9	14.1	--	--	5275	--	--
Robust 89740	21141	17.2	5.8	22.6	--	5250	4335	--
Purdue 72107	15449	17.0	2.4	8.7	--	5208	4304	--
Purdue P-608	17424	16.1	8.6	34.2	11.7	5171	5031	4983*
Purdue 92233	15798	16.2	7.0	--	--	5090	--	--
Purdue 83515	17772	15.9	5.9	12.4	--	5070	4598	--
Purdue 8383	15914	15.9	9.2	23.8	--	4924	3791	--
Purdue 72122	15333	16.2	6.1	35.4	--	4898	4229	--
Ames A4402	18237	15.4	8.8	--	--	4883	--	--
Purdue 63106	17308	14.9	7.4	16.1	--	4852	3931	--
McHone M212	17656	15.5	2.1	44.5	--	4842	4888	--
Ames A4401	19283	14.7	4.0	--	--	4584	--	--
Ames A3301	15914	14.9	5.3	--	--	4547	--	--
McHone M075A	16495	15.6	5.6	16.1	--	4524	4539	--
Robust 30-71	19631	15.1	12.8	57.7	13.9	4497	4843	4977*
Schlessman 475	20096	14.6	9.5	--	--	3331	--	--
TRIAL AVERAGE	17532	15.8	7.9	32.9	7.8	5287	4647	4793
L.S.D. AT .05	2274	0.7	NS	43.3	8.4	652	1009	760
C.V. %	11.2	3.8				7.5	13.3	11.1

** 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.
 + 1992 lodging data refers to stalk lodging only, while 1990-91 is for both root & stalk lodging.

TABLE 22. SOURCE OF COMMERCIAL SEED CORN ENTERED IN THE 1992 MISSOURI YIELD TRIALS.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
AgraTech	660, 757, 787, 825	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055
AgriGene	AG7720, AG7885	AgriGene Seed Research, Rt. 2, Box 3A, Ames, IA 50010
AgriPro	AP 605, AP 638, AP 670, AP 674, AP 798	AgriPro Seeds, Rt. 2, Hwy. 30 E, Ames, IA 50010
Ames	A3301, A3302, A4401, A4402, A5012, A5501	Ames Seed Farms, Rt. 1, Box 107A, Kelly, IA 50134
Asgrow	RX802, RX809, RX897, RX899, RX919	Asgrow Seed Co., Box 460, Parkersburg, IA 50665
Bo-Jac	138, 427, 629, 925, 7195	Bo-Jac Hybrid Corn Co., Rt. 2, Box 11, Mt. Pulaski, IL 62548
Burrus	BX58, BX73, BX76, BX87+, BX93, BX94	Burrus Bros. & Assoc. Growers, Rt. 1, Box 22, Arenzville, IL 62611
Cargill	3427, 4327, 5327, 7177, 7697, 7877, 7997, 8177, 8427, 9027	Cargill Hybrid Seeds, Box 5645, Minneapolis, MN 55440
Ciba-Geigy	G-4502, G-4583, G-4631, G-4651, G-4673B	Ciba-Geigy Seed Div., Box 18300, 1500 Pine Croft, Greensboro, NC 27419
Crow's	488, 667, 669, 670	Crow's Hybrid Corn Co., Box 306, Milford, IL 60953
Dairyland	Stealth 1114, Stealth 1214, Stealth 1217	Dairyland Seed Co., Inc., Box 958, West Bend, WI 53095
Dekalb	DK535, DK584, DK646, DK671, DK711, DK715, DK743	Dekalb Plant Genetics, 3100 Sycamore Road, DeKalb, IL 60115
Delta Genetics	DG 185, DG 186, DG 192, X1447, X1771, X1911	Delta Genetics, Inc., Box 572, Blytheville, AR 72316
Deltapine	4450, 4581, 8620, 8695, G-4673B	Delta and Pine Land Co., Box 157, Scott, MS 38772
Dyna Gro	5510, 8116	Tri-State Delta Chem., Inc., Box 89, Rayville, LA 71269
Dyna-Gro	5351, 5410, 5470, 5491, 5550, 5561, 5671	United Agri Products Seeds, 537 Atlas Ave., Madison, WI 53707
Federal	FX29	Federal Hybrids, 5420 35th Ave., Marion, IA 52302
Fontanelle	1845, 4435, 6235, 6340	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044
Golden Acres	T-E 7055, T-E Ex 9106, T-E 9586	Taylor Evans Seed Co., Box 68, Tulia, TX 79088
Golden Harvest	H-2390, H-2404, H-2485, H-2525, H-2544, H-2592, H-2641	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Box A, Waterloo, NE 68069
GroAgri	GSC 4172, GSC 4192, GSC 4202, GSC 4715	GroAgri Seed Co., 6201 SE Loop 289, Lubbock, TX 79404
Hawkeye Hybrids	7378	Hawkeye Hybrids Inc., Rt. 3, Box 416, Pella, IA 50219
Hubner	H3315, H9015, H9111, H9115, H9117, H9215	Hubner Seed Co., Inc., Rt. 1, Box 92, West Lebanon, IN 47991
Hyperformer	HS 9502, HS 9592, HS 9704, HS 9773, HS 9843, HS 9911, HS 9905, HS 9977	Hyperformer Seed Co., 6075 Poplar, Suite 500, Memphis, TN 38119
ICI	8260, 8382, 8326, 8513, Garst 8272, Garst 8310, Garst 8543, Garst 8599	ICI Seed, Rt. 3, Bowling Green, MO 63334
Jacques	7970, 8210, 8510	Jacques Seed Co., 720 Saint Croix St., Prescott, WI 54021
JMS	SX 1090, SX 1141, SX 1161, SX 1170, SX 1171, SX 1181, SX 1190	J.M. Schultz Seed Co., Box 211, Dieterich, IL 62424



TABLE 22. CONTINUED.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
KSC	5120, 5162	Kitchen Seed Co., Rt. 36 W., Box 1147, Hannibal, MO 63401
Lewis	3945, 4311, 5191, 5252, 5721, 5952, 6121, 6642, 7288, 8492	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376
Lynks	2812, 2829, 2868, 2875	Lynks Seeds, Box 637, Marshalltown, IA 50158
Masters Choice	605	Masters Choice, Box 151, Carrollton, IL 62016
McAllister	SX8408, SX9118, SX9212	McAllister Seed Co., 1307 N. Broadway, Box 28, Mt. Pleasant, IA 52641
McCurdy	7366, 7372, 7477, 7660	AgriGene Seed Res., Rt. 2, Box 3A, Ames, IA 50010
McHone	M-075A, M-118, M-212, M-910, M-31601, M-6259	McHone Seed Co., Inc., Rt. 4, Squaw Valley, Ames, Ia 50010
Merschman	M-1114, M-1117, M-2115, M-2118, M-2121	Merschman Seed Co., 103 Ave. D., West Point, IA 52656
MFA	2170X, 3515, 3516, 4512, 4922, 6230X	MFA Inc., 615 Locust, Columbia, MO 65201
Middlekoop	452, 514, 516, 608, 614, 615, 616	Middlekoop Seed Corn, Inc., Rt. 1, Packwood, IA 52580
Mity Mo	151, 161, 171, 181, 191	Mity Mo Seeds, Box 92, Malta Bend, MO 65339
NC+	4616, 5037, 5963, 6414, 6485, 6959, 7304	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504
NeCo	A100, A105	J.B.M. Assoc., Rt. 2, Box 489, Garden City, MO 64747
NK	N4242, N6330, N7768, N7816, N8727, N8811, PX9540	Northrup King Co., Box 668, Ames, IA 50010
Oro	188, 190, Exp. 1008	R.C. Young Seed Co.-Oro Hybrids, 624 27th St., Lubbock, TX 79404
Pfister	3600, 3965	Pfister Seed Co., Box 187, El Paso, IL 61738
Pioneer Hybrid	3140, 3159, 3162, 3165, 3245, 3279, 3317, 3394, 3417, 3563, 3733, 3737, 3751	Pioneer Hi-Bred Int., Inc., 1000 W. Jefferson, Tipton, IN 46072
Purdue	P-608, P-612, P-613, 8383, 32208, 62217, 63106, 72107, 72122, 83515, 92233, 92262, 92266	Foundation Seed, Purdue University, Lafayette, IN 47907
Querna	7310, 7670, 7870	Querna Seed Co., Inc., Rt. 2, Box 130A, Danville, IA 52623
Robust	20-70, 30-71, 88429, 89740	Crookham Co., Box 520, Caldwell, ID 83605
Schlessman	475	Schlessman Seed Co., Milan, OH 44846
Shissler	GR8 179, GR8 193, LG 2705	Shissler Seed Co., Rt. 3, Elmwood, IL 61529
SSI	USN 316, USQ 866	Seed Source Inc., 106 4th St., Leland, MS 38756
Stine	992, 1151, 1180, 1181, 1225	Stine Seed Inc., 2225 Laredo Trail, Rt. 3, Box 204, Adel, IA, 50003
Terra	TR600E, TR621E, TR641E, TR1030, TR1145, TR1160, TR1167	Terra Int., Inc., 600 4th St., Sioux City, IA 51101
Triumph	1270, 1630, 2010	Triumph Seed Co., Inc., Box 1050, Ralls, TX 79357
Vigro	KE 1162, KE 1182 KE 879011	Vigro Seed Co., 2007 W. Hwy 50, Fairview, IL 62208
Wilson	1890, 2330	Wilson Seeds, Inc., Box 391, Harlan, IA 51537

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