

CORN 1995 Missouri Crop Performance



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MISSOURI CROP PERFORMANCE

1995

CORN

This report is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station. The work was supported by fees provided by companies submitting hybrids for evaluation.

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 266 today.

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

COMPARING HYBRIDS

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

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

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

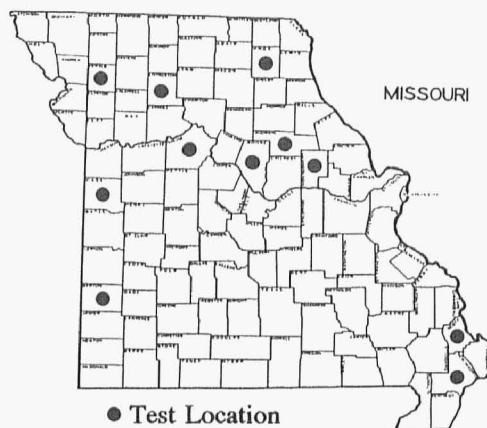
Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a corn hybrid. Stalk strength, maturity and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. Later maturing hybrids may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

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

EXPERIMENTAL PROCEDURES

Three types of tests were conducted. Full-season hybrids (101-140 day maturity classification) were evaluated in irrigated and non-irrigated tests. Early maturing hybrids (less than 100 day maturity classification) were evaluated in non-irrigated tests. These latter tests were made part of the program in 1988 to provide information to growers interested in production of early maturing hybrids.

Locations. On the basis of geographical characteristics, the state is divided into regions. Corn hybrid evaluation trials are located in the northern, central, south-western 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 1995 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 (dryland) or \$100 (irrigated) per location for each hybrid entered.

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

Plot Management. All tests were planted and harvested with commercial equipment modified for small plot work. Preplant fertilizer was applied at each site at the discretion of the farmer or the station manager. Sidedress fertilizer was applied as needed. Pre-emergence herbicides were used to control weeds, and additional hand weeding was done as required. Management details varied from location to location and are specified after the heading of 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 the data collected and reported in bushels (56 pounds) per acre at a moisture content of 15.5 percent. Guidelines provided by the University of Missouri for placement in a maturity group are shown below.

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

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

SUMMARY OF RESULTS

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

Corn hybrids were evaluated in six full-season dryland, six full-season irrigated, and three early maturing non-irrigated tests in 1995. 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. 1995 HYBRID CORN YIELD SUMMARY

LOCATION	NUMBER OF ENTRIES	TEST TYPE	YIELD (BU/ACRE)		DATA TABLE
			RANGE	AVERAGE	
Osborn	164	Dryland	83-134	108	2
Chillicothe	164	Dryland	60-129	89	3
Novelty	164	Dryland	91-161	126	4
Marshall	108	Dryland	115-180	154	6
Columbia	108	Dryland	85-122	104	7
High Hill	108	Dryland	130-174	152	8
Columbia	72	Irrigated	125-185	155	10
Ladonia	72	Irrigated	131-181	154	11
Garden City	50	Irrigated	116-165	137	13
Lamar	50	Irrigated	128-175	149	14
Oran	89	Irrigated	143-230	182	16
New Madrid	89	Irrigated	151-218	183	17
Columbia	19*	Early Maturing	102-146*	122*	19
Garden City	19*	Early Maturing	66- 97*	79*	20
Lamar	19*	Early Maturing	62-120*	88*	21

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

During 1995, a cool wet spring caused some emergence and early growth problems. The growing season of 1995 was characterized by above normal rainfall in the spring and below normal rainfall in the summer for most of the Missouri. April and May rainfall reduced stands in early tests and delayed planting in North and Central Missouri. The test at Oran was damaged by hail and wind in July. This caused several hybrids to suffer lodging and reduced yields.

TABLE 2. Performance of Corn Hybrids evaluated near Osborn (DeKalb County) on the Gene Millard Farm during 1995 and near Barnard (Nodaway County) on the Meyer Brothers Farm during 1993-94.

Planted: 13 June 1995
 Harvested: 23 October 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Putman Silt Loam
 Soil Test: pH=7.0, OM=2.8%, P=98, K=323

Fertilizer: N=150; P₂O₅=80; K₂O=80
 Herbicide: Bicept + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: May=11.4, June=3.7, July=4.6, Aug.=3.7, Sept.=2.0 TOTAL=25.4"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
LG Seeds LG2621(sx)	2	21400	17.1	4.5	134.0**	157.1	96.6	145.6	129.2
Terra TR1185(sx)	3	20800	19.7	7.8	132.7*	153.8	--	143.3	--
Kruger Ex-116(sx)	2	21200	18.7	18.1	132.4*	--	--	--	--
Merschman M-5117(sx)	1	21300	17.8	11.3	131.7*	--	--	--	--
Rainbow 3170(sx)	2	21500	18.9	6.9	130.3*	190.7*	--	160.5	--
Merschman M-2121(sx)	1	22400	17.7	19.9	130.3*	163.9	91.7	147.1	128.6
Pioneer Hybrid 3394(sx)	3	21300	17.2	14.5	128.6*	179.0*	125.8*	153.8	144.5
Ohlde 331(sx)	2	20300	19.1	7.6	128.2*	--	--	--	--
M/W Genetics G 8440(sx)	1	20100	18.3	6.8	127.0*	--	--	--	--
Mello-Dent 7875(sx)	2	21000	19.4	30.4	126.2*	--	--	--	--
Cargill 7997(sx)	2	22000	20.5	20.6	125.6*	151.8	128.0*	138.7	135.1
Lynks 2821(sx)	2	19600	18.8	13.1	124.6*	--	--	--	--
Mello-Dent 7805(sx)	1	20600	17.8	10.4	124.0*	--	--	--	--
Kruger K-9620(sx)	2	19900	17.6	7.2	123.6*	151.1	--	137.4	--
Bioseed 9600(sx)	2	20600	18.8	14.4	123.3*	--	--	--	--
Fontanelle 5335(sx)	1	21700	15.6	1.9	122.2*	--	--	--	--
Fontanelle 5624(sx)	1	20900	18.9	6.4	121.3*	--	--	--	--
ICI 8330(sx)	2	20700	18.5	1.6	121.0*	--	--	--	--
LG Seeds LG2632(sx)	2	20600	14.3	5.8	120.9*	117.5	--	119.2	--
Merschman M-5114(sx)	1	21300	17.8	4.3	120.2*	--	--	--	--
Lewis 4503(sx)	1	22100	14.9	12.1	119.6*	168.8	117.6*	144.2	135.3
Golden Harvest H-2547(sx)	1	21000	18.2	6.5	119.4*	--	--	--	--
Renze 6370(sx)	2	19900	18.0	10.4	119.4*	--	--	--	--
Northrup King N7070(sx)	3	21400	18.0	3.5	118.9*	--	--	--	--
Pfister 2650(sx)	1	20200	16.1	14.8	118.5*	--	--	--	--
Bioseed 9550(sx)	2	20900	19.2	18.2	117.4*	--	--	--	--
Mycogen 8240(sx)	4	21800	19.3	14.0	117.3*	170.0	--	143.7	--
Kruger EX-9720(sx)	2	20400	18.3	9.8	117.1*	--	--	--	--
Middlekoop 718(sx)	2	21700	20.8	12.0	116.9*	204.2*	102.5	160.6	141.2
Crow's SL70(sx)	2	21500	18.3	62.5	116.5*	143.6	104.2	130.1	121.4
Kruger K-9616B(sx)	2	21000	18.0	14.7	116.3*	--	--	--	--
Merschman M-3117(sx)	1	21700	20.8	6.5	115.9*	140.2	115.3*	128.1	123.8
Pfister 3490(sx)	1	20400	16.5	10.3	115.4*	--	--	--	--
Rainbow 1165(sx)	2	19600	17.2	9.9	115.3*	--	--	--	--
Cargill 6997(sx)	4	19800	18.6	7.2	115.3*	--	--	--	--
Patriot 66158(sx)	4	20500	17.3	12.9	115.2*	--	--	--	--
Kruger K-9618(sx)	2	21000	19.3	14.0	114.9*	--	--	--	--
Lewis 6294(sx)	2	21000	18.3	15.3	114.8*	195.6*	--	155.2	--
Golden Harvest H-2548(sx)	1	21600	17.2	8.5	114.7*	176.4*	91.0	145.6	127.4
Rainbow 3109(sx)	2	22300	15.6	7.9	114.6*	--	--	--	--
Merschman M-3115(sx)	1	20300	17.7	10.6	114.4*	127.5	94.5	121.0	112.1
Lynks 2829(sx)	2	21600	18.2	4.4	114.4*	187.4*	114.2*	150.9	138.7
Ciba 4581(sx)	2	21500	19.7	14.5	114.4*	182.9*	107.0	148.7	134.8
Triumph 2010(sx)	2	21100	19.0	2.7	114.3*	179.7*	93.9	147.0	129.3
Middlekoop 813(sx)	2	20900	17.4	1.2	114.2*	--	--	--	--
Crow's 510(sx)	1	21200	16.5	13.3	114.1*	180.4*	97.2	147.3	130.6
Ciba 4494(sx)	2	20300	15.8	7.5	114.0*	175.5*	92.4	144.8	127.3
Hawkeye Hybrids 7994(sx)	2	22500	16.9	10.9	113.8*	--	--	--	--
Ciba 4545(sx)	2	21900	17.5	4.6	113.5*	--	--	--	--
Bo-Jac 615(sx)	2	21300	18.4	10.3	113.2*	--	--	--	--
Wilson 2330(sx)	4	21100	21.5	3.1	113.2*	196.1*	106.7	154.7	138.7
Cargill 7557(sx)	3	20600	17.6	17.4	113.0*	178.3*	--	145.7	--
Fontanelle 5325(sx)	1	21300	17.4	18.1	112.7*	--	--	--	--
Merschman M-5115(sx)	1	18900	17.2	21.3	112.4*	--	--	--	--
Kruger K-9720B(sx)	2	20200	20.0	15.4	112.4*	--	--	--	--
DeKalb DK646(sx)	2	21100	21.3	11.0	112.3*	166.7	114.8*	139.5	131.3
Cargill 7777(sx)	3	21800	16.6	38.5	112.2*	205.1*	--	158.7	--
Renze 6386(sx)	1	21600	18.2	8.5	112.1*	--	--	--	--

TABLE 2. Continued.

Brand-Hybrid	Maturity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Northrup King N7590(sx)	3	20700	18.0	16.0	111.9*	--	--	--	--
Pioneer Hybrid 3523(sx)	1	20900	15.2	7.5	111.9*	--	--	--	--
Stine Brand 9801(sx)	2	21400	16.4	11.9	111.6	--	--	--	--
Asgrow RX843(sx)	1	20900	18.7	0.2	111.5	--	--	--	--
Scott's 3118(sx)	2	21400	18.8	16.8	111.5	--	--	--	--
Pioneer Hybrid 3489(sx)	2	20400	15.5	4.5	111.4	177.2*	--	144.3	--
Renze 6416(sx)	2	19500	17.8	5.5	110.8	--	--	--	--
Cargill 8327(sx)	4	22400	18.7	5.4	110.5	154.3	111.6*	132.4	125.5
Bo-Jac 438(sx)	1	20300	15.4	7.3	110.2	--	--	--	--
Bo-Jac 409(sx)	1	18700	16.9	9.7	110.2	--	--	--	--
Middlekoop 514(sx)	2	20500	16.1	17.6	110.1	184.0*	89.8	147.1	128.0
Kruger K-9722(sx)	3	21400	22.6	20.4	109.8	--	--	--	--
Middlekoop 817(sx)	2	18800	19.0	11.7	109.7	--	--	--	--
Lewis 8492(sx)	3	21800	18.9	18.3	109.7	157.2	114.0*	133.5	127.0
Cargill 6303(sx)	2	20800	17.9	3.9	109.2	--	--	--	--
Randell 7111(sx)	2	21300	15.1	18.0	109.1	--	--	--	--
Terra TR1154(sx)	2	19100	18.9	6.9	108.9	168.2	--	138.6	--
Mycogen 7660(sx)	4	21900	17.2	4.1	108.6	--	--	--	--
Asgrow RX770(sx)	1	20900	16.7	5.7	108.4	--	--	--	--
Crow's 668(sx)	2	20100	19.8	5.5	108.4	192.6*	100.9	150.5	134.0
Renze 6345(sx)	1	21800	17.3	8.8	108.2	--	--	--	--
Merschman M-3120(sx)	1	21900	19.4	9.4	108.1	152.8	114.5*	130.5	125.1
Ohlde 300(sx)	2	21700	16.9	20.3	108.1	161.7	95.7	134.9	121.8
Kruger K-9415A(sx)	2	21900	15.9	5.8	108.1	--	--	--	--
Burrus BX83(sx)	4	20300	15.7	9.0	107.9	--	--	--	--
Wilson E12015(sx)	4	19600	22.7	25.1	107.8	--	--	--	--
Asgrow RX789(sx)	1	20100	18.5	1.5	107.5	--	--	--	--
Burrus BX86(sx)	4	20100	18.9	4.8	107.5	--	--	--	--
Lynks 2719(sx)	2	21200	16.4	5.6	107.2	--	--	--	--
Northrup King N6822(sx)	3	20600	13.9	5.8	106.9	--	--	--	--
MFA 4715(sx)	3	20300	14.0	17.3	106.9	--	--	--	--
Golden Harvest H-2573(sx)	1	21100	19.1	10.2	106.9	161.8	--	134.4	--
Pfister 3965(sx)	2	21200	17.3	14.0	106.7	175.5*	117.6*	141.1	133.3
Bioseed 9530(sx)	2	20500	16.1	5.0	106.6	--	--	--	--
MFA MX4476(sx)	3	21900	16.2	5.3	106.5	--	--	--	--
Middlekoop 717(sx)	2	21000	15.5	3.1	106.0	95.9	104.9	101.0	102.3
Kruger K-9220(sx)	2	20300	19.1	17.5	106.0	--	--	--	--
Ohlde 340(sx)	1	22000	16.5	8.0	105.8	--	--	--	--
Terra TR1167(sx)	3	21000	19.8	13.0	105.6	185.9*	92.1	145.8	127.9
NC+ 5037(sx)	2	21800	16.0	11.4	105.5	194.2*	94.3	149.9	131.3
Pioneer Hybrid 3335(sx)	4	21300	16.2	6.3	105.1	--	--	--	--
Bo-Jac 577(sx)	2	21400	16.7	6.9	104.7	--	--	--	--
M/W Genetics G 8775(sx)	2	21700	18.9	14.2	104.7	155.2	--	130.0	--
Burrus BX80(sx)	4	21700	19.2	12.6	104.4	168.1	--	136.3	--
Merschman M-5112(sx)	1	20200	17.6	2.7	104.2	--	--	--	--
Ciba 4475(sx)	1	21000	14.7	7.4	104.1	--	--	--	--
Kruger K-9621(sx)	2	21500	22.9	13.1	103.6	--	--	--	--
Lewis 4985(sx)	1	20400	16.1	10.2	103.6	--	--	--	--
Pioneer Hybrid 3223(sx)	4	20200	19.3	29.4	103.2	--	--	--	--
Golden Harvest H-2581(sx)	1	21100	17.3	12.6	103.1	--	--	--	--
Merschman M-5116(sx)	1	18700	19.7	9.4	103.0	--	--	--	--
AgriPro HS 9502(sx)	1	19900	16.4	2.9	102.7	--	88.8	--	--
NC+ 7117(sx)	2	21600	17.4	17.7	102.5	--	94.8	--	--
M/W Genetics G 8445(sx)	1	19300	18.6	13.0	102.1	--	--	--	--
Burrus BX72(sx)	4	20700	17.6	1.0	102.0	--	--	--	--
Dekalb DK626(sx)	2	21300	16.4	3.9	101.9	142.1	--	122.0	--
Kruger K-9516(sx)	2	20600	17.8	7.6	101.7	--	--	--	--
Rainbow 1155(sx)	2	21000	16.7	2.8	101.6	--	--	--	--
Mello-Dent 7820(sx)	1	20000	20.1	12.7	101.6	--	--	--	--
Kruger K-9417(sx)	2	20000	17.1	3.0	101.5	--	--	--	--
Cargill 7897(sx)	4	21200	18.0	22.1	101.3	103.3	--	102.3	--
Kruger K-9315B-PT(sx)	2	21800	17.5	27.1	101.1	--	--	--	--
Bioseed 9555(sx)	2	21900	20.0	3.1	100.9	--	--	--	--
Golden Harvest H-2641(sx)	2	21200	18.7	9.1	100.3	171.6	112.3*	136.0	128.1
LG Seeds LG2705(sx)	3	20800	19.4	16.2	100.1	182.0*	104.3	141.1	128.8

TABLE 2. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	(Bu/Acre)	1994	1993	2 Yr.	3 Yr.
Mello-Dent 7810(sx)	1	21800	20.7	1.8	99.8	--	--	--	--
Stine Brand 9704(sx)	3	19200	16.4	5.8	99.5	--	--	--	--
Randell 7114(sx)	2	22300	15.1	4.0	99.4	--	--	--	--
MFA MX5356(sx)	4	21600	15.4	6.1	99.4	--	--	--	--
Dekalb DK668(sx)	2	21300	19.3	13.9	99.2	--	--	--	--
Pioneer Hybrid 3163(sx)	4	20500	17.6	22.2	98.9	165.8	104.7	132.4	123.1
Scott's 5118(sx)	2	20800	16.7	3.8	97.9	--	--	--	--
JMS SX2275A(sx)	1	20600	18.7	5.0	97.3	--	--	--	--
Renze 6425(sx)	2	21400	17.4	4.3	96.9	--	--	--	--
Ohlde 510(sx)	3	21100	20.5	4.6	96.6	181.3*	101.5	139.0	126.5
Rainbow 2142(sx)	2	21900	19.1	13.9	96.5	--	89.8	--	--
Lewis 5584(sx)	1	20700	16.7	26.6	96.5	188.1*	--	142.3	--
Crow's 685(sx)	2	20700	19.3	4.7	96.2	--	--	--	--
Bo-Jac 629(sx)	2	19200	18.4	7.4	96.0	--	110.2*	--	--
Kruger EX-9720A(sx)	2	20900	18.7	14.5	95.9	--	--	--	--
Middlekoop 815(sx)	2	20200	18.9	1.9	95.8	153.5	--	124.7	--
M/W Genetics G 7940(sx)	1	21400	17.2	13.6	95.8	--	--	--	--
ICI 8476(sx)	1	18100	18.5	2.8	95.5	--	--	--	--
Ciba 4575(sx)	2	19300	19.5	1.1	95.4	--	--	--	--
Kruger K-9616(sx)	2	21000	21.1	8.2	95.0	--	--	--	--
Asgrow RX801(sx)	1	21900	17.1	4.2	94.8	164.4	103.6	129.6	120.9
AgriPro AP 619(sx)	1	18300	17.0	2.1	94.6	--	--	--	--
AgriPro HY 9610(sx)	2	19300	19.4	2.0	94.5	--	--	--	--
Scott's 4112(sx)	2	20200	15.6	15.7	94.4	--	--	--	--
MFA 5225(sx)	4	19900	16.2	12.0	94.4	--	--	--	--
Lynks 2815(sx)	2	19100	19.4	3.0	93.7	--	--	--	--
MFA 5823(sx)	4	21100	19.2	6.2	92.8	169.1	107.5	131.0	123.1
Hawkeye Hybrids 8179(sx)	2	21300	18.3	18.2	92.8	--	--	--	--
Pioneer Hybrid 3279(sx)	3	20300	18.0	5.5	92.6	165.6	--	129.1	--
Dairyland Stealth 1118(sx)	1	22000	19.8	17.2	92.2	160.4	112.5*	126.3	121.7
Lynks 2868(sx)	3	20600	19.4	24.9	91.1	174.4	123.8*	132.8	129.8
Middlekoop 814(sx)	2	21400	14.6	6.4	90.8	--	--	--	--
Stine Brand 9602(sx)	2	20800	15.7	24.1	90.2	--	--	--	--
Patriot 65100(sx)	3	20200	17.0	8.7	87.8	--	--	--	--
Terra TR1130(sx)	2	21800	18.8	10.7	86.9	--	--	--	--
Golden Harvest H-2622(sx)	2	21500	19.1	16.9	86.8	187.9*	--	137.4	--
Randell 7109(sx)	2	19200	17.6	12.1	86.5	--	--	--	--
Ciba 4450(sx)	1	20500	17.3	17.2	86.2	134.9	--	110.6	--
AgriPro HS 9843(sx)	3	21500	20.0	23.5	85.0	161.1	102.0	123.1	116.0
Scott's 4116(spx)	2	21400	16.2	16.0	83.3	--	--	--	--
Crow's 490(sx)	1	21800	19.0	7.6	82.9	--	--	--	--
TRIAL AVERAGE		20855	17.9	10.9	107.6	155.3	100.1	131.4	121.0
L.S.D. AT .10 ¹		1894	2.3	13.4	22.1	32.2	22.0		
C.V. %		6.6	9.4		14.9	12.7	13.5		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 3. Performance of Corn Hybrids evaluated near Chillicothe (Livingston County) on the Harry Hayden Farm during 1995.

Planted: 19 June 1995
 Harvested: 24 October 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Putman Silt Loam
 Soil Test: pH=6.2, OM=2.1%, P=30, K=113

Fertilizer: N=150; P₂O₅=70; K₂O=90
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: May=12.0, June=5.2, July=4.9, Aug.=6.1, Sept.=3.0 TOTAL=31.2"

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	1995	1994	1993	2 Yr.	3 Yr.
Cargill 7997(sx)	2	21700	22.7	10.7	129.1**	--	--	--	--
Middlekoop 817(sx)	2	19800	22.1	11.7	115.7*	--	--	--	--
Renze 6416(sx)	2	19700	21.2	0.0	114.7*	--	--	--	--
M/W Genetics G 8440(sx)	1	21100	20.9	6.1	112.6*	--	--	--	--
Mello-Dent 7875(sx)	2	19500	24.2	14.6	109.2	--	--	--	--
Hawkeye Hybrids 7994(sx)	2	22500	20.1	0.7	109.2	--	--	--	--
Cargill 7557(sx)	3	21300	22.4	0.5	109.2	--	--	--	--
Kruger K-9616(sx)	2	21200	20.2	3.2	108.7	--	--	--	--
Lynks 2821(sx)	2	20400	22.8	3.3	108.7	--	--	--	--
Pfister 3965(sx)	2	21300	24.0	30.2	108.4	--	--	--	--
AgriPro HS 9502(sx)	1	20300	20.3	8.3	108.1	--	--	--	--
MFA MX5356(sx)	4	21400	19.6	16.3	107.2	--	--	--	--
Dekalb DK668(sx)	2	21700	21.5	9.8	105.8	--	--	--	--
Asgrow RX770(sx)	1	20900	19.5	1.6	104.8	--	--	--	--
Ciba 4494(sx)	2	21200	20.7	6.0	104.7	--	--	--	--
Cargill 7777(sx)	3	20900	21.1	0.7	104.7	--	--	--	--
Cargill 8327(sx)	4	21000	23.0	23.2	104.6	--	--	--	--
Kruger K-9621(sx)	2	21700	22.7	9.5	104.4	--	--	--	--
Bo-Jac 629(sx)	2	19700	23.6	11.3	104.4	--	--	--	--
Kruger EX-9720A(sx)	2	20800	22.5	11.6	102.8	--	--	--	--
Mycogen 8240(sx)	4	20200	22.8	39.2	102.8	--	--	--	--
Scott's 3118(sx)	2	20900	21.1	41.0	102.5	--	--	--	--
Kruger Ex-116(sx)	2	20500	24.6	43.4	101.3	--	--	--	--
MFA 4715(sx)	3	21000	19.5	16.8	100.9	--	--	--	--
Kruger K-9220(sx)	2	21000	24.2	15.6	100.3	--	--	--	--
Northrup King N7590(sx)	3	21200	24.8	3.1	100.1	--	--	--	--
Terra TR1167(sx)	3	20800	23.3	10.2	99.6	--	--	--	--
Merschman M-3120(sx)	1	20900	21.6	5.3	99.1	--	--	--	--
Pfister 3490(sx)	1	21000	23.8	2.3	98.7	--	--	--	--
Lewis 4985(sx)	1	21700	20.7	0.6	98.6	--	--	--	--
AgriPro HS 9843(sx)	3	20400	21.7	18.7	98.1	--	--	--	--
Middlekoop 514(sx)	2	21100	19.8	3.7	97.9	--	--	--	--
ICI 8330(sx)	2	21000	21.0	14.0	97.6	--	--	--	--
Terra TR1185(sx)	3	21500	24.9	27.8	97.5	--	--	--	--
Burrus BX83(sx)	4	20900	18.7	0.2	97.5	--	--	--	--
Merschman M-3117(sx)	1	21600	23.3	2.5	97.3	--	--	--	--
Stine Brand 9801(sx)	2	20300	22.5	14.6	97.2	--	--	--	--
LG Seeds LG2705(sx)	3	20100	23.1	6.3	96.8	--	--	--	--
Pioneer Hybrid 3394(sx)	3	20700	19.9	5.6	96.5	--	--	--	--
Bioseed 9530(sx)	2	20300	21.0	19.9	96.1	--	--	--	--
Middlekoop 815(sx)	2	21300	22.4	2.3	95.6	--	--	--	--
Middlekoop 813(sx)	2	22300	20.5	8.4	94.6	--	--	--	--
Asgrow RX789(sx)	1	21200	21.7	2.9	94.3	--	--	--	--
Crow's SL70(sx)	2	20300	21.6	46.6	94.0	--	--	--	--
Ohlde 300(sx)	2	20900	21.8	17.1	93.9	--	--	--	--
JMS SX2275A(sx)	1	22000	24.1	28.3	93.8	--	--	--	--
Kruger K-9417(sx)	2	20500	18.0	9.1	93.1	--	--	--	--
Cargill 7897(sx)	4	22500	23.8	3.0	93.0	--	--	--	--
Ohlde 331(sx)	2	19000	24.0	11.0	92.8	--	--	--	--
Bo-Jac 438(sx)	1	20200	18.4	28.1	92.7	--	--	--	--
M/W Genetics G 8445(sx)	1	20900	21.1	8.3	92.5	--	--	--	--
Pioneer Hybrid 3335(sx)	4	22300	19.3	31.0	92.3	--	--	--	--
Merschman M-5117(sx)	1	20600	22.4	14.4	91.7	--	--	--	--
Mello-Dent 7805(sx)	1	21400	19.7	8.7	91.7	--	--	--	--
Dekalb DK646(sx)	2	21300	25.2	3.1	91.6	--	--	--	--
Bo-Jac 615(sx)	2	21100	23.0	7.3	91.6	--	--	--	--
Dekalb DK626(sx)	2	22300	24.2	11.9	91.5	--	--	--	--
Middlekoop 718(sx)	2	20500	24.8	8.3	91.5	--	--	--	--

TABLE 3. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Fontanelle 5624(sx)	1	21800	22.5	20.0	91.3	--	--	--	--
Scott's 4112(sx)	2	21900	19.2	10.2	91.3	--	--	--	--
Crow's 668(sx)	2	21300	21.8	50.6	91.2	--	--	--	--
MFA 5225(sx)	4	20600	17.4	19.2	91.2	--	--	--	--
LG Seeds LG2621(sx)	2	21700	23.0	0.6	90.8	--	--	--	--
Wilson 2330(sx)	4	20600	25.5	9.3	90.7	--	--	--	--
AgriPro HY 9610(sx)	2	21700	19.5	5.5	90.7	--	--	--	--
Golden Harvest H-2641(sx)	2	21200	21.8	10.6	90.3	--	--	--	--
Kruger K-9720B(sx)	2	20300	23.4	19.8	90.3	--	--	--	--
Kruger K-9618(sx)	2	20800	21.5	4.0	90.1	--	--	--	--
Patriot 66158(sx)	4	21100	20.2	6.6	90.0	--	--	--	--
Lynks 2868(sx)	3	21700	22.1	17.8	90.0	--	--	--	--
Golden Harvest H-2573(sx)	1	21000	22.9	2.0	89.8	--	--	--	--
Scott's 5118(sx)	2	21200	19.5	15.2	89.7	--	--	--	--
Rainbow 1165(sx)	2	20200	19.4	7.2	89.4	--	--	--	--
Northrup King N6822(sx)	3	20300	19.2	25.0	89.4	--	--	--	--
Bioseed 9555(sx)	2	21300	20.6	1.3	89.2	--	--	--	--
Bo-Jac 577(sx)	2	21400	19.2	3.7	89.0	--	--	--	--
Renze 6425(sx)	2	21700	20.5	4.2	88.7	--	--	--	--
Ciba 4575(sx)	2	19100	24.2	2.7	88.7	--	--	--	--
Ohlde 510(sx)	3	20500	21.8	19.5	88.0	--	--	--	--
Burrus BX80(sx)	4	21400	23.3	5.5	87.9	--	--	--	--
Middlekoop 814(sx)	2	19800	17.6	1.9	87.9	--	--	--	--
Golden Harvest H-2581(sx)	1	19600	20.6	5.3	87.8	--	--	--	--
Ciba 4581(sx)	2	21800	23.1	17.6	87.5	--	--	--	--
Triumph 2010(sx)	2	21000	23.4	13.8	87.4	--	--	--	--
Lewis 4503(sx)	1	21500	19.2	30.1	87.3	--	--	--	--
Merschman M-3115(sx)	1	21000	20.7	12.4	87.0	--	--	--	--
Golden Harvest H-2548(sx)	1	21400	22.3	6.6	86.7	--	--	--	--
Randell 7109(sx)	2	18900	22.9	0.5	86.5	--	--	--	--
Renze 6370(sx)	2	22100	22.5	8.2	86.4	--	--	--	--
Ciba 4475(sx)	1	20700	17.8	16.8	86.3	--	--	--	--
Ciba 4545(sx)	2	21700	20.2	17.2	86.3	--	--	--	--
Kruger EX-9720(sx)	2	20800	22.2	16.6	86.0	--	--	--	--
Mycogen 7660(sx)	4	22200	21.9	6.3	86.0	--	--	--	--
M/W Genetics G 8775(sx)	2	21800	23.0	31.4	85.9	--	--	--	--
Lewis 5584(sx)	1	21400	21.0	10.5	85.9	--	--	--	--
Mello-Dent 7820(sx)	1	21100	21.1	5.8	85.8	--	--	--	--
Lewis 6294(sx)	2	21100	22.8	6.6	85.8	--	--	--	--
M/W Genetics G 7940(sx)	1	22100	19.5	11.3	85.6	--	--	--	--
Pioneer Hybrid 3523(sx)	1	22500	20.8	3.4	85.6	--	--	--	--
LG Seeds LG2632(sx)	2	20900	18.9	6.1	85.5	--	--	--	--
Lynks 2719(sx)	2	20600	18.7	6.6	85.5	--	--	--	--
Fontanelle 5335(sx)	1	20100	20.2	11.1	85.4	--	--	--	--
Pioneer Hybrid 3489(sx)	2	20500	20.7	5.8	85.3	--	--	--	--
Lewis 8492(sx)	3	20500	22.3	16.3	85.2	--	--	--	--
Kruger K-9616B(sx)	2	20300	21.4	0.0	85.2	--	--	--	--
Asgrow RX843(sx)	1	21100	21.1	2.0	85.1	--	--	--	--
Rainbow 3170(sx)	2	19500	24.5	32.8	85.0	--	--	--	--
MFA MX4476(sx)	3	21500	21.3	3.0	85.0	--	--	--	--
Bioseed 9550(sx)	2	21100	21.8	3.8	84.7	--	--	--	--
Merschman M-2121(sx)	1	21600	23.7	10.3	84.6	--	--	--	--
Pioneer Hybrid 3223(sx)	4	19600	26.9	2.8	84.2	--	--	--	--
Randell 7111(sx)	2	20500	20.2	13.4	84.2	--	--	--	--
Kruger K-9620(sx)	2	20800	23.4	3.4	83.7	--	--	--	--
NC+ 7117(sx)	2	20800	23.9	2.6	83.6	--	--	--	--
Asgrow RX801(sx)	1	22400	20.8	18.1	83.5	--	--	--	--
Kruger K-9516(sx)	2	20500	23.3	0.7	83.5	--	--	--	--
Ciba 4450(sx)	1	20000	20.0	12.6	83.2	--	--	--	--
NC+ 5037(sx)	2	21400	21.6	12.5	83.0	--	--	--	--
Kruger K-9722(sx)	3	20900	26.4	10.3	82.7	--	--	--	--
Pioneer Hybrid 3163(sx)	4	19800	20.9	31.3	82.6	--	--	--	--
Merschman M-5112(sx)	1	19500	20.7	18.8	82.4	--	--	--	--
Pioneer Hybrid 3279(sx)	3	19800	21.8	6.5	82.2	--	--	--	--
Mello-Dent 7810(sx)	1	20700	25.4	0.0	82.0	--	--	--	--

TABLE 3. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Burrus BX86(sx)	4	19800	22.5	15.2	82.0	--	--	--	--
Middlekoop 717(sx)	2	20400	19.4	7.2	81.9	--	--	--	--
Golden Harvest H-2622(sx)	2	20000	21.9	29.6	81.6	--	--	--	--
Crow's 685(sx)	2	21300	23.9	12.5	81.2	--	--	--	--
ICI 8476(sx)	1	20200	21.5	1.8	81.2	--	--	--	--
Bioseed 9600(sx)	2	20400	23.3	16.5	80.9	--	--	--	--
Rainbow 3109(sx)	2	22500	19.0	3.4	80.5	--	--	--	--
Northrup King N7070(sx)	3	19600	19.1	17.1	80.4	--	--	--	--
Pfister 2650(sx)	1	21500	19.0	20.4	80.3	--	--	--	--
Burrus BX72(sx)	4	22100	19.1	1.6	80.2	--	--	--	--
Merschman M-5114(sx)	1	19800	22.8	6.6	79.9	--	--	--	--
Lynks 2829(sx)	2	20600	21.4	36.3	79.7	--	--	--	--
Merschman M-5116(sx)	1	19600	21.9	12.1	79.7	--	--	--	--
Renze 6345(sx)	1	21000	18.7	13.0	79.6	--	--	--	--
Bo-Jac 409(sx)	1	20700	20.2	30.2	79.5	--	--	--	--
Rainbow 2142(sx)	2	20700	22.4	22.0	79.4	--	--	--	--
Terra TR1154(sx)	2	19800	20.9	39.4	79.3	--	--	--	--
Randell 7114(sx)	2	22200	22.2	7.3	78.5	--	--	--	--
Ohlde 340(sx)	1	20400	21.4	19.6	78.2	--	--	--	--
Scott's 4116(spx)	2	19800	18.8	10.1	77.9	--	--	--	--
Crow's 510(sx)	1	20500	20.2	4.5	77.9	--	--	--	--
MFA 5823(sx)	4	20800	23.6	25.0	77.7	--	--	--	--
Kruger K-9315B-PT(sx)	2	21600	21.1	8.6	77.5	--	--	--	--
Wilson E12015(sx)	4	21700	25.8	13.3	76.8	--	--	--	--
Stine Brand 9704(sx)	3	21000	23.7	13.9	75.6	--	--	--	--
Renze 6386(sx)	1	21300	21.2	8.6	75.6	--	--	--	--
Hawkeye Hybrids 8179(sx)	2	20500	21.8	8.6	75.6	--	--	--	--
Terra TR1130(sx)	2	21300	24.0	8.9	75.3	--	--	--	--
Rainbow 1155(sx)	2	20800	19.8	12.9	74.9	--	--	--	--
Dairyland Stealth 1118(sx)	1	21600	23.1	25.1	74.0	--	--	--	--
Kruger K-9415A(sx)	2	21500	18.3	32.2	73.2	--	--	--	--
Cargill 6997(sx)	4	21400	18.6	27.9	72.3	--	--	--	--
Fontanelle 5325(sx)	1	20000	20.1	55.8	70.3	--	--	--	--
Patriot 65100(sx)	3	18100	18.7	14.1	69.3	--	--	--	--
Lynks 2815(sx)	2	20100	20.7	0.6	68.0	--	--	--	--
Stine Brand 9602(sx)	2	19100	19.0	16.8	66.2	--	--	--	--
AgriPro AP 619(sx)	1	19200	20.3	4.9	65.3	--	--	--	--
Cargill 6303(sx)	2	20500	17.7	12.4	65.0	--	--	--	--
Crow's 490(sx)	1	20600	23.8	29.9	63.8	--	--	--	--
Merschman M-5115(sx)	1	19500	19.9	30.9	63.3	--	--	--	--
Golden Harvest H-2547(sx)	1	20700	21.9	3.1	60.3	--	--	--	--
TRIAL AVERAGE		20852	21.6	12.9	88.8				
L.S.D. AT .10 ¹		1806	2.6	19.0	19.0				
C.V. %		6.3	9.0		15.5				

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 4. Performance of Corn Hybrids evaluated near Novelty (Knox County) on the Greenley Memorial Center during 1993-95.

Planted: 14 June 1995
 Harvested: 19 October 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Putnam Silt Loam
 Soil Test: pH=6.1, OM=2.7%, P=58, K=383
 Fertilizer: N=160; P₂O₅=50; K₂O=100
 Herbicide: Dual + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: May=12.6, June=3.4, July=6.9, Aug.=9.3, Sept.=3.1, TOTAL=35.3"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Cargill 6997(sx)	4	22400	23.1	0.0	161.0**	--	--	--	--
Fontanelle 5624(sx)	1	22300	25.1	0.0	159.6*	--	--	--	--
Lynks 2821(sx)	2	20700	27.2	0.0	157.8*	--	--	--	--
Randell 7111(sx)	2	22000	24.1	0.5	152.7*	--	--	--	--
Middlekoop 813(sx)	2	21700	21.8	0.5	152.2*	--	--	--	--
Ohlde 331(sx)	2	22000	26.4	0.5	150.7*	--	--	--	--
Renze 6416(sx)	2	21600	26.2	0.5	148.7*	--	--	--	--
Kruger EX-9720A(sx)	2	19800	27.2	1.2	148.1*	--	--	--	--
Fontanelle 5335(sx)	1	20700	21.6	0.0	148.0*	--	--	--	--
Mycogen 7660(sx)	4	21900	28.9	0.5	147.8*	--	--	--	--
Golden Harvest H-2622(sx)	2	21500	27.8	0.5	147.6*	180.8*	--	164.2	--
Merschman M-3117(sx)	1	20900	30.6	0.0	146.8*	163.8	125.1	155.3	145.2
Kruger K-9516(sx)	2	22200	26.9	0.0	146.2*	--	--	--	--
Renze 6370(sx)	2	21600	26.6	0.0	146.1*	--	--	--	--
Middlekoop 817(sx)	2	21200	27.4	0.6	146.0*	--	--	--	--
Cargill 7897(sx)	4	22500	30.9	0.5	145.8*	167.3	--	156.6	--
Ciba 4581(sx)	2	20600	30.1	0.6	145.5*	176.5*	130.8	161.0	150.9
Northrup King N7070(sx)	3	21500	25.6	0.0	144.9*	--	--	--	--
Golden Harvest H-2641(sx)	2	22400	29.1	0.0	144.7*	172.8*	148.9*	158.8	155.5
Cargill 7557(sx)	3	22000	25.0	0.0	144.3*	168.2	--	156.3	--
Mello-Dent 7820(sx)	1	22000	26.9	0.0	143.3*	--	--	--	--
Kruger K-9620(sx)	2	20800	28.3	0.0	142.8*	170.5*	--	156.7	--
Mello-Dent 7805(sx)	1	21700	26.8	0.6	141.8*	--	--	--	--
JMS SX2275A(sx)	1	20400	28.3	1.1	141.7*	--	--	--	--
AgriPro HY 9610(sx)	2	19800	27.9	0.0	141.2*	--	--	--	--
Northrup King N7590(sx)	3	20300	27.5	0.0	141.0*	--	--	--	--
Lynks 2815(sx)	2	21500	24.7	0.0	140.9*	--	--	--	--
Randell 7109(sx)	2	20700	26.7	0.0	140.1*	--	--	--	--
Dairyland Stealth 1118(sx)	1	22100	30.6	0.0	139.7*	178.7*	129.5	159.2	149.3
Golden Harvest H-2547(sx)	1	21700	23.7	0.0	139.5*	--	--	--	--
Cargill 6303(sx)	2	21000	21.7	0.5	139.0*	--	--	--	--
Pioneer Hybrid 3335(sx)	4	20400	22.6	0.7	138.7*	--	--	--	--
Golden Harvest H-2581(sx)	1	21200	24.4	0.0	138.0*	--	--	--	--
Ciba 4545(sx)	2	21100	24.3	1.1	137.7*	--	--	--	--
Lynks 2829(sx)	2	20200	26.0	0.6	137.4*	168.5	133.1	153.0	146.3
Asgrow RX770(sx)	1	21400	26.1	0.5	137.3*	--	--	--	--
Pioneer Hybrid 3489(sx)	2	20000	24.3	0.5	137.3*	155.5	--	146.4	--
Golden Harvest H-2548(sx)	1	20500	24.2	0.0	137.1*	176.1*	143.0*	156.6	152.1
Ciba 4575(sx)	2	22100	26.2	0.0	137.0*	--	--	--	--
Asgrow RX801(sx)	1	20700	24.4	0.0	136.6*	170.9*	134.3	153.8	147.3
Patriot 66158(sx)	4	22400	24.3	0.0	136.6*	--	--	--	--
Middlekoop 718(sx)	2	20300	27.0	0.0	136.4*	162.3	143.4*	149.4	147.4
Pfister 2650(sx)	1	21900	24.3	0.0	136.4*	--	--	--	--
Lewis 4503(sx)	1	21300	23.7	0.0	135.7*	182.3*	131.8	159.0	149.9
Fontanelle 5325(sx)	1	22200	22.9	0.0	135.6*	--	--	--	--
Cargill 7997(sx)	2	21700	28.7	1.0	135.6*	163.5	150.3*	149.6	149.8
Hawkeye Hybrids 8179(sx)	2	21500	27.5	0.6	134.8*	--	--	--	--
Terra TR1130(sx)	2	22300	27.1	0.0	133.7*	--	--	--	--
Asgrow RX789(sx)	1	21400	29.4	0.0	133.4*	--	--	--	--
AgriPro HS 9843(sx)	3	21200	27.9	0.5	132.7*	183.7*	145.5*	158.2	154.0
Kruger K-9618(sx)	2	20900	25.2	0.0	131.8	--	--	--	--
Renze 6345(sx)	1	21200	23.8	0.0	131.7	--	--	--	--
Kruger K-9315B-PT(sx)	2	21700	23.8	0.0	131.6	--	--	--	--
AgriPro AP 619(sx)	1	20800	23.5	0.0	131.3	--	--	--	--
Bioseed 9530(sx)	2	20200	22.5	0.0	130.9	--	--	--	--
Burrus BX83(sx)	4	21600	24.8	0.0	130.6	--	--	--	--
Rainbow 1155(sx)	2	20100	25.3	1.2	130.4	--	--	--	--
Kruger K-9616B(sx)	2	20200	24.3	0.6	130.3	--	--	--	--

TABLE 4. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Stine Brand 9801(sx)	2	20900	27.0	0.0	130.2	--	--	--	--
Lewis 4985(sx)	1	20700	26.1	1.1	130.1	--	--	--	--
Crow's 510(sx)	1	20600	23.0	0.5	129.8	173.2*	126.8	151.5	143.3
Ciba 4475(sx)	1	21400	23.5	0.6	129.7	--	--	--	--
Wilson E12015(sx)	4	21900	31.8	0.5	129.6	--	--	--	--
LG Seeds LG2632(sx)	2	20700	23.3	0.0	129.5	181.1*	--	155.3	--
Crow's SL70(sx)	2	19400	28.0	0.6	129.3	164.1	150.5*	146.7	148.0
Kruger K-9720B(sx)	2	21100	33.6	0.5	129.1	--	--	--	--
LG Seeds LG2621(sx)	2	21500	29.3	0.0	129.0	166.8	122.2	147.9	139.3
Kruger K-9415A(sx)	2	21200	25.2	0.5	128.9	--	--	--	--
Pfister 3490(sx)	1	20600	28.1	0.7	128.9	--	--	--	--
Ohlde 340(sx)	1	20600	24.6	0.6	128.6	--	--	--	--
Merschman M-2121(sx)	1	21900	28.5	0.0	128.6	165.0	132.0	146.8	141.9
M/W Genetics G 7940(sx)	1	21500	22.0	0.0	128.5	--	--	--	--
Merschman M-5117(sx)	1	20500	26.7	0.0	128.4	--	--	--	--
MFA MX5356(sx)	4	21000	22.7	1.1	128.4	--	--	--	--
Cargill 7777(sx)	3	20200	28.0	1.7	127.3	174.9*	--	151.1	--
Merschman M-5116(sx)	1	20000	30.6	0.0	127.1	--	--	--	--
Lewis 5584(sx)	1	21600	24.9	0.5	127.1	190.4**	--	158.8	--
Burrus BX72(sx)	4	19600	28.5	0.0	126.8	--	--	--	--
Kruger K-9722(sx)	3	20600	31.3	0.5	126.2	--	--	--	--
Ciba 4494(sx)	2	20600	24.1	0.0	126.2	168.0	135.3	147.1	143.2
Hawkeye Hybrids 7994(sx)	2	21100	27.8	0.0	126.1	--	--	--	--
Ciba 4450(sx)	1	21500	23.0	0.0	125.9	156.6	--	141.3	--
Lynks 2719(sx)	2	21600	23.4	0.6	125.8	--	--	--	--
Burrus BX86(sx)	4	20700	26.3	0.0	125.8	--	--	--	--
M/W Genetics G 8775(sx)	2	21900	30.7	0.0	125.6	183.5*	--	154.6	--
Bo-Jac 577(sx)	2	21300	26.3	0.0	125.4	--	--	--	--
Kruger Ex-116(sx)	2	22000	31.5	3.1	124.9	--	--	--	--
ICI 8330(sx)	2	21400	26.0	1.6	124.8	--	--	--	--
Lewis 6294(sx)	2	20800	29.7	0.0	124.6	173.5*	--	149.1	--
Scott's 5118(sx)	2	20700	23.0	0.6	124.5	--	--	--	--
Renze 6425(sx)	2	21800	22.7	0.5	124.4	--	--	--	--
Bo-Jac 438(sx)	1	19800	23.6	1.1	124.3	--	--	--	--
Pioneer Hybrid 3394(sx)	3	19100	22.3	0.0	124.1	165.3	164.2**	144.7	151.2
Crow's 685(sx)	2	21500	29.1	0.0	124.0	--	--	--	--
Middlekoop 815(sx)	2	17900	27.0	0.0	123.9	164.5	--	144.2	--
MFA 5225(sx)	4	21600	26.4	0.0	123.1	--	--	--	--
Crow's 668(sx)	2	21000	28.8	0.0	122.9	165.6	139.0*	144.3	142.5
Renze 6386(sx)	1	21600	26.7	0.0	122.9	--	--	--	--
Pioneer Hybrid 3279(sx)	3	20100	25.9	0.0	122.2	172.8*	--	147.5	--
Northrup King N6822(sx)	3	21500	22.0	0.0	121.7	--	--	--	--
Rainbow 3170(sx)	2	21600	29.4	1.6	121.5	181.2*	--	151.4	--
Pioneer Hybrid 3523(sx)	1	21200	24.2	0.6	121.3	--	--	--	--
AgriPro HS 9502(sx)	1	20300	25.4	0.0	121.2	--	121.6	--	--
Scott's 4116(spx)	2	20500	22.2	1.2	121.1	--	--	--	--
Golden Harvest H-2573(sx)	1	20800	28.0	0.0	120.7	161.5	--	141.1	--
Patriot 65100(sx)	3	19500	22.5	0.0	120.6	--	--	--	--
Randell 7114(sx)	2	19800	22.8	0.0	120.2	--	--	--	--
Bo-Jac 629(sx)	2	18700	32.3	0.0	119.7	--	150.0*	--	--
Dekalb DK646(sx)	2	19900	30.5	0.0	119.6	176.6*	133.7	148.1	143.3
M/W Genetics G 8445(sx)	1	20100	26.4	0.0	119.6	--	--	--	--
MFA 4715(sx)	3	20600	23.0	0.0	118.9	--	--	--	--
Mello-Dent 7810(sx)	1	22000	27.9	0.0	118.9	--	--	--	--
Lewis 8492(sx)	3	21300	29.7	0.0	118.8	172.2*	153.1*	145.5	148.0
Kruger K-9417(sx)	2	21000	24.4	0.0	118.5	--	--	--	--
NC+ 5037(sx)	2	20300	23.9	0.6	118.0	165.8	125.6	141.9	136.5
Stine Brand 9704(sx)	3	20200	28.3	1.1	117.1	--	--	--	--
Crow's 490(sx)	1	20800	28.0	1.1	116.9	--	--	--	--
Bioseed 9555(sx)	2	20900	30.1	0.0	116.1	--	--	--	--
Kruger K-9621(sx)	2	21100	31.7	0.0	116.0	--	--	--	--
Pioneer Hybrid 3223(sx)	4	19900	34.9	1.1	115.6	--	--	--	--
Merschman M-5112(sx)	1	19900	24.5	0.0	115.5	--	--	--	--
LG Seeds LG2705(sx)	3	21200	27.9	1.1	115.0	180.2*	152.3*	147.6	149.2
Bioseed 9600(sx)	2	20300	28.9	0.0	115.0	--	--	--	--

TABLE 4. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	(Bu/Acre)	1994	1993	2 Yr.	3 Yr.
Burrus BX80(sx)	4	21700	26.7	0.0	114.8	180.9*	--	147.9	--
Asgrow RX843(sx)	1	20700	24.4	0.0	114.7	--	--	--	--
Merschman M-5115(sx)	1	20300	24.6	0.0	114.7	--	--	--	--
Terra TR1154(sx)	2	19800	29.2	0.0	114.6	160.8	--	137.7	--
Pioneer Hybrid 3163(sx)	4	19900	34.9	0.5	114.4	178.8*	149.6*	146.6	147.6
Terra TR1167(sx)	3	21400	27.9	0.0	114.4	168.1	121.2	141.3	134.6
Kruger K-9616(sx)	2	20700	28.2	0.0	114.2	--	--	--	--
Bo-Jac 615(sx)	2	20700	29.9	0.0	113.5	--	--	--	--
ICI 8476(sx)	1	18900	28.0	0.0	113.2	--	--	--	--
Middlekoop 514(sx)	2	22000	24.8	0.0	113.1	188.0*	138.4*	150.6	146.5
Mello-Dent 7875(sx)	2	19500	34.7	0.0	112.2	--	--	--	--
Middlekoop 717(sx)	2	20900	24.7	0.0	111.8	169.1	147.8*	140.5	142.9
Bo-Jac 409(sx)	1	20000	24.1	0.0	111.7	--	--	--	--
Pfister 3965(sx)	2	20500	31.1	0.0	110.9	158.8	147.8*	134.9	139.2
Dekalb DK668(sx)	2	21700	27.4	0.0	110.6	--	--	--	--
Scott's 4112(sx)	2	20800	24.4	0.0	110.4	--	--	--	--
Merschman M-3115(sx)	1	19200	30.1	1.1	110.2	171.5*	155.4*	140.9	145.7
Kruger EX-9720(sx)	2	21500	25.9	0.0	109.6	--	--	--	--
Dekalb DK626(sx)	2	21000	27.7	0.5	109.2	165.7	--	137.5	--
Rainbow 1165(sx)	2	20300	28.1	0.0	109.0	--	--	--	--
MFA 5823(sx)	4	20800	24.9	0.6	108.7	172.8*	147.5*	140.8	143.0
MFA MX4476(sx)	3	21300	25.7	0.0	108.6	--	--	--	--
Cargill 8327(sx)	4	19200	29.7	0.0	108.3	178.0*	144.4*	143.2	143.6
Merschman M-5114(sx)	1	19400	30.2	0.6	108.2	--	--	--	--
Stine Brand 9602(sx)	2	19600	23.1	0.0	106.8	--	--	--	--
Mycogen 8240(sx)	4	21900	27.0	0.0	106.6	173.5*	--	140.1	--
M7W Genetics G 8440(sx)	1	20300	26.8	0.0	106.3	--	--	--	--
Wilson 2330(sx)	4	19500	33.9	0.0	105.2	163.9	159.9*	134.6	143.0
Scott's 3118(sx)	2	21100	29.0	0.0	104.9	--	--	--	--
Bioseed 9550(sx)	2	20100	27.2	0.0	104.4	--	--	--	--
Lynks 2868(sx)	3	20400	29.7	0.6	102.8	157.9	155.5*	130.4	138.7
Kruger K-9220(sx)	2	21600	30.0	0.0	102.3	--	--	--	--
Triumph 2010(sx)	2	20900	29.2	1.1	100.6	173.8*	141.7*	137.2	138.7
Ohlde 510(sx)	3	19800	28.4	0.0	100.1	164.2	135.7	132.1	133.3
Middlekoop 814(sx)	2	21200	24.1	0.0	99.5	--	--	--	--
Merschman M-3120(sx)	1	21300	31.0	0.0	99.2	182.5*	147.9*	140.9	143.2
Terra TR1185(sx)	3	19900	31.1	2.3	95.3	164.1	--	129.7	--
Rainbow 3109(sx)	2	20900	24.2	0.5	94.4	--	--	--	--
NC+ 7117(sx)	2	20200	30.6	0.0	92.9	--	145.1*	--	--
Ohlde 300(sx)	2	19000	27.1	0.7	92.2	177.7*	124.3	135.0	131.4
Rainbow 2142(sx)	2	22200	25.4	0.0	91.3	--	125.8	--	--
TRIAL AVERAGE		20884	26.8	0.3	125.6	167.4	137.1	146.5	143.4
L.S.D. AT .10 ¹		1560	3.1	1.0	28.8	21.0	27.9		
C.V. %		5.5	8.6		16.7	7.7	12.5		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 5. Performance of Corn Hybrids evaluated near Osborn (DeKalb County) on the Gene Millard Farm, near Chillicothe (Livingston County) on the Harry Hayden Farm, and near Novelty (Knox County) on the Greenley Memorial Center during 1995.

Brand-Hybrid	Mat- urity Group	Lodging (%)				Yield (Bu/Acre)							
		Osborn	Chillicothe	Novelty	Mean	Osborn	Chillicothe	Novelty	Mean				
		Osborn Planted: 13 June 1995 Harvested: 23 October 1995 Growing Season Rainfall: 25.4"				Chillicothe Planted: 19 June 1995 Harvested: 24 October 1995 Growing Season Rainfall: 31.2"				Novelty Planted: 14 June 1995 Harvested: 19 October 1995 Growing Season Rainfall: 35.3"			
Lynks 2821(sx)	2	13.1	3.3	0.0	5.5	124.6*	108.7	157.8*	130.4**				
Cargill 7997(sx)	2	20.6	10.7	1.0	10.8	125.6*	129.1**	135.6*	130.1*				
Renze 6416(sx)	2	5.5	0.0	0.5	2.0	110.8	114.7*	148.7*	124.7*				
Fontanelle 5624(sx)	1	6.4	20.0	0.0	8.8	121.3*	91.3	159.6*	124.1*				
Ohlde 331(sx)	2	7.6	11.0	0.5	6.4	128.2*	92.8	150.7*	123.9*				
Middlekoop 817(sx)	2	11.7	11.7	0.6	8.0	109.7	115.7*	146.0*	123.8*				
Cargill 7557(sx)	3	17.4	0.5	0.0	6.0	113.0*	109.2	144.3*	122.2*				
Middlekoop 813(sx)	2	1.2	8.4	0.5	3.4	114.2*	94.6	152.2*	120.3*				
Merschman M-3117(sx)	1	6.5	2.5	0.0	3.0	115.9*	97.3	146.8*	120.0*				
Kruger Ex-116(sx)	2	18.1	43.4	3.1	21.5	132.4*	101.3	124.9	119.5*				
Mello-Dent 7805(sx)	1	10.4	8.7	0.6	6.6	124.0*	91.7	141.8*	119.2*				
Fontanelle 5335(sx)	1	1.9	11.1	0.0	4.3	122.2*	85.4	148.0*	118.5*				
LG Seeds LG2621(sx)	2	4.5	0.6	0.0	1.7	134.0**	90.8	129.0	117.9*				
Northrup King N7590(sx)	3	16.0	3.1	0.0	6.4	111.9*	100.1	141.0*	117.7*				
Merschman M-5117(sx)	1	11.3	14.4	0.0	8.6	131.7*	91.7	128.4	117.3*				
Renze 6370(sx)	2	10.4	8.2	0.0	6.2	119.4*	86.4	146.1*	117.3*				
Asgrow RX770(sx)	1	5.7	1.6	0.5	2.6	108.4	104.8	137.3*	116.8*				
Kruger K-9620(sx)	2	7.2	3.4	0.0	3.5	123.6*	83.7	142.8*	116.7*				
Hawkeye Hybrids 7994(sx)	2	10.9	0.7	0.0	3.9	113.8*	109.2	126.1	116.4				
Pioneer Hybrid 3394(sx)	3	14.5	5.6	0.0	6.7	128.6*	96.5	124.1	116.4				
Cargill 6997(sx)	4	7.2	27.9	0.0	11.7	115.3*	72.3	161.0**	116.2				
Mello-Dent 7875(sx)	2	30.4	14.6	0.0	15.0	126.2*	109.2	112.2	115.9				
Ciba 4581(sx)	2	14.5	17.6	0.6	10.9	114.4*	87.5	145.5*	115.8				
Kruger EX-9720A(sx)	2	14.5	11.6	1.2	9.1	95.9	102.8	148.1*	115.6				
Randell 7111(sx)	2	18.0	13.4	0.5	10.6	109.1	84.2	152.7*	115.3				
M/W Genetics G 8440(sx)	1	6.8	6.1	0.0	4.3	127.0*	112.6*	106.3	115.3				
Ciba 4494(sx)	2	7.5	6.0	0.0	4.5	114.0*	104.7	126.2	115.0				
Middlekoop 718(sx)	2	12.0	8.3	0.0	6.8	116.9*	91.5	136.4*	114.9				
Northrup King N7070(sx)	3	3.5	17.1	0.0	6.9	118.9*	80.4	144.9*	114.7				
Cargill 7777(sx)	3	38.5	0.7	1.7	13.6	112.2*	104.7	127.3	114.7				
ICI 8330(sx)	2	1.6	14.0	1.6	5.7	121.0*	97.6	124.8	114.5				
Merschman M-2121(sx)	1	19.9	10.3	0.0	10.1	130.3*	84.6	128.6	114.5				
Pfister 3490(sx)	1	10.3	2.3	0.7	4.4	115.4*	98.7	128.9	114.3				
Lewis 4503(sx)	1	12.1	30.1	0.0	14.1	119.6*	87.3	135.7*	114.2				
Mycogen 7660(sx)	4	4.1	6.3	0.5	3.6	108.6	86.0	147.8*	114.1				
Patriot 66158(sx)	4	12.9	6.6	0.0	6.5	115.2*	90.0	136.6*	113.9				
Cargill 7897(sx)	4	22.1	3.0	0.5	8.5	101.3	93.0	145.8*	113.4				
Crow's SL70(sx)	2	62.5	46.6	0.6	36.6	116.5*	94.0	129.3	113.3				
Stine Brand 9801(sx)	2	11.9	14.6	0.0	8.8	111.6	97.2	130.2	113.0				
Golden Harvest H-2548(sx)	1	8.5	6.6	0.0	5.0	114.7*	86.7	137.1*	112.8				
Ciba 4545(sx)	2	4.6	17.2	1.1	7.6	113.5*	86.3	137.7*	112.5				
Rainbow 3170(sx)	2	6.9	32.8	1.6	13.8	130.3*	85.0	121.5	112.3				
Kruger K-9618(sx)	2	14.0	4.0	0.0	6.0	114.9*	90.1	131.8	112.3				
Pioneer Hybrid 3335(sx)	4	6.3	31.0	0.7	12.7	105.1	92.3	138.7*	112.0				
LG Seeds LG2632(sx)	2	5.8	6.1	0.0	4.0	120.9*	85.5	129.5	112.0				
Burrus BX83(sx)	4	9.0	0.2	0.0	3.1	107.9	97.5	130.6	112.0				
Golden Harvest H-2641(sx)	2	9.1	10.6	0.0	6.6	100.3	90.3	144.7*	111.8				
Asgrow RX789(sx)	1	1.5	2.9	0.0	1.5	107.5	94.3	133.4*	111.7				
Pfister 2650(sx)	1	14.8	20.4	0.0	11.7	118.5*	80.3	136.4*	111.7				
MFA MX5356(sx)	4	6.1	16.3	1.1	7.8	99.4	107.2	128.4	111.7				
Pioneer Hybrid 3489(sx)	2	4.5	5.8	0.5	3.6	111.4	85.3	137.3*	111.3				
Bioseed 9530(sx)	2	5.0	19.9	0.0	8.3	106.6	96.1	130.9	111.2				
JMS SX2275A(sx)	1	5.0	28.3	1.1	11.5	97.3	93.8	141.7*	110.9				
Lewis 4985(sx)	1	10.2	0.6	1.1	4.0	103.6	98.6	130.1	110.8				
AgriPro HS 9502(sx)	1	2.9	8.3	0.0	3.7	102.7	108.1	121.2	110.7				
Kruger K-9720B(sx)	2	15.4	19.8	0.5	11.9	112.4*	90.3	129.1	110.6				
Kruger K-9616B(sx)	2	14.7	0.0	0.6	5.1	116.3*	85.2	130.3	110.6				
Kruger K-9516(sx)	2	7.6	0.7	0.0	2.8	101.7	83.5	146.2*	110.5				
Lynks 2829(sx)	2	4.4	36.3	0.6	13.8	114.4*	79.7	137.4*	110.5				
Mello-Dent 7820(sx)	1	12.7	5.8	0.0	6.2	101.6	85.8	143.3*	110.2				

TABLE 5. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)				Yield (Bu/Acre)			
		Osborn	Chilicoth	Novelty	Mean	Osborn	Chilicoth	Novelty	Mean
Golden Harvest H-2581(sx)	1	12.6	5.3	0.0	6.0	103.1	87.8	138.0*	109.6
Bo-Jac 438(sx)	1	7.3	28.1	1.1	12.2	110.2	92.7	124.3	109.1
MFA 4715(sx)	3	17.3	16.8	0.0	11.4	106.9	100.9	118.9	108.9
Mycogen 8240(sx)	4	14.0	39.2	0.0	17.7	117.3*	102.8	106.6	108.9
AgriPro HY 9610(sx)	2	2.0	5.5	0.0	2.5	94.5	90.7	141.2*	108.8
Pfister 3965(sx)	2	14.0	30.2	0.0	14.7	106.7	108.4	110.9	108.7
Terra TR1185(sx)	3	7.8	27.8	2.3	12.6	132.7*	97.5	95.3	108.5
Lewis 6294(sx)	2	15.3	6.6	0.0	7.3	114.8*	85.8	124.6	108.4
Kruger K-9621(sx)	2	13.1	9.5	0.0	7.5	103.6	104.4	116.0	108.0
Dekalb DK646(sx)	2	11.0	3.1	0.0	4.7	112.3*	91.6	119.6	107.8
Cargill 8327(sx)	4	5.4	23.2	0.0	9.5	110.5	104.6	108.3	107.8
Crow's 668(sx)	2	5.5	50.6	0.0	18.7	108.4	91.2	122.9	107.5
Crow's 510(sx)	1	13.3	4.5	0.5	6.1	114.1*	77.9	129.8	107.3
Ciba 4575(sx)	2	1.1	2.7	0.0	1.3	95.4	88.7	137.0*	107.0
Middlekoop 514(sx)	2	17.6	3.7	0.0	7.1	110.1	97.9	113.1	107.0
Bo-Jac 629(sx)	2	7.4	11.3	0.0	6.2	96.0	104.4	119.7	106.7
Ciba 4475(sx)	1	7.4	16.8	0.6	8.3	104.1	86.3	129.7	106.7
Renze 6345(sx)	1	8.8	13.0	0.0	7.3	108.2	79.6	131.7	106.5
Terra TR1167(sx)	3	13.0	10.2	0.0	7.7	105.6	99.6	114.4	106.5
Golden Harvest H-2547(sx)	1	6.5	3.1	0.0	3.2	119.4*	60.3	139.5*	106.4
Bo-Jac 577(sx)	2	6.9	3.7	0.0	3.5	104.7	89.0	125.4	106.4
Bioseed 9600(sx)	2	14.4	16.5	0.0	10.3	123.3*	80.9	115.0	106.4
Scott's 3118(sx)	2	16.8	41.0	0.0	19.3	111.5	102.5	104.9	106.3
Pioneer Hybrid 3523(sx)	1	7.5	3.4	0.6	3.8	111.9*	85.6	121.3	106.3
Kruger K-9722(sx)	3	20.4	10.3	0.5	10.4	109.8	82.7	126.2	106.2
Fontanelle 5325(sx)	1	18.1	55.8	0.0	24.6	112.7*	70.3	135.6*	106.2
Lynks 2719(sx)	2	5.6	6.6	0.6	4.3	107.2	85.5	125.8	106.2
Bo-Jac 615(sx)	2	10.3	7.3	0.0	5.9	113.2*	91.6	113.5	106.1
Northrup King N6822(sx)	3	5.8	25.0	0.0	10.3	106.9	89.4	121.7	106.0
Kruger K-9616(sx)	2	8.2	3.2	0.0	3.8	95.0	108.7	114.2	106.0
Golden Harvest H-2573(sx)	1	10.2	2.0	0.0	4.1	106.9	89.8	120.7	105.8
M/W Genetics G 8775(sx)	2	14.2	31.4	0.0	15.2	104.7	85.9	125.6	105.4
AgriPro HS 9843(sx)	3	23.5	18.7	0.5	14.2	85.0	98.1	132.7*	105.3
Golden Harvest H-2622(sx)	2	16.9	29.6	0.5	15.7	86.8	81.6	147.6*	105.3
Dekalb DK668(sx)	2	13.9	9.8	0.0	7.9	99.2	105.8	110.6	105.2
Middlekoop 815(sx)	2	1.9	2.3	0.0	1.4	95.8	95.6	123.9	105.1
Burrus BX86(sx)	4	4.8	15.2	0.0	6.7	107.5	82.0	125.8	105.1
Asgrow RX801(sx)	1	4.2	18.1	0.0	7.4	94.8	83.5	136.6*	105.0
M/W Genetics G 8445(sx)	1	13.0	8.3	0.0	7.1	102.1	92.5	119.6	104.7
Wilson E12015(sx)	4	25.1	13.3	0.5	13.0	107.8	76.8	129.6	104.7
Rainbow 1165(sx)	2	9.9	7.2	0.0	5.7	115.3*	89.4	109.0	104.6
Lewis 8492(sx)	3	18.3	16.3	0.0	11.5	109.7	85.2	118.8	104.6
Randell 7109(sx)	2	12.1	0.5	0.0	4.2	86.5	86.5	140.1*	104.4
Cargill 6303(sx)	2	3.9	12.4	0.5	5.6	109.2	65.0	139.0*	104.4
Kruger K-9417(sx)	2	3.0	9.1	0.0	4.0	101.5	93.1	118.5	104.4
Kruger EX-9720(sx)	2	9.8	16.6	0.0	8.8	117.1*	86.0	109.6	104.2
Ohlde 340(sx)	1	8.0	19.6	0.6	9.4	105.8	78.2	128.6	104.2
LG Seeds LG2705(sx)	3	16.2	6.3	1.1	7.9	100.1	96.8	115.0	104.0
Scott's 5118(sx)	2	3.8	15.2	0.6	6.5	97.9	89.7	124.5	104.0
Merschman M-3115(sx)	1	10.6	12.4	1.1	8.0	114.4*	87.0	110.2	103.9
Asgrow RX843(sx)	1	0.2	2.0	0.0	0.7	111.5	85.1	114.7	103.8
Renze 6386(sx)	1	8.5	8.6	0.0	5.7	112.1*	75.6	122.9	103.5
Kruger K-9315B-PT(sx)	2	27.1	8.6	0.0	11.9	101.1	77.5	131.6	103.4
Kruger K-9415A(sx)	2	5.8	32.2	0.5	12.8	108.1	73.2	128.9	103.4
Merschman M-5116(sx)	1	9.4	12.1	0.0	7.2	103.0	79.7	127.1	103.3
Renze 6425(sx)	2	4.3	4.2	0.5	3.0	96.9	88.7	124.4	103.3
M/W Genetics G 7940(sx)	1	13.6	11.3	0.0	8.3	95.8	85.6	128.5	103.3
Lewis 5584(sx)	1	26.6	10.5	0.5	12.5	96.5	85.9	127.1	103.2
Burrus BX72(sx)	4	1.0	1.6	0.0	0.9	102.0	80.2	126.8	103.0
Wilson 2330(sx)	4	3.1	9.3	0.0	4.1	113.2*	90.7	105.2	103.0
MFA 5225(sx)	4	12.0	19.2	0.0	10.4	94.4	91.2	123.1	102.9
Kruger K-9220(sx)	2	17.5	15.6	0.0	11.0	106.0	100.3	102.3	102.9
Merschman M-5114(sx)	1	4.3	6.6	0.6	3.8	120.2*	79.9	108.2	102.8
Burrus BX80(sx)	4	12.6	5.5	0.0	6.0	104.4	87.9	114.8	102.4
Rainbow 1155(sx)	2	2.8	12.9	1.2	5.6	101.6	74.9	130.4	102.3

TABLE 5. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)				Yield (Bu/Acre)			
		Osborn	Chilicoth	Novelty	Mean	Osborn	Chilicoth	Novelty	Mean
NC+ 5037(sx)	2	11.4	12.5	0.6	8.2	105.5	83.0	118.0	102.2
Bioseed 9550(sx)	2	18.2	3.8	0.0	7.3	117.4*	84.7	104.4	102.2
Merschman M-3120(sx)	1	9.4	5.3	0.0	4.9	108.1	99.1	99.2	102.1
Bioseed 9555(sx)	2	3.1	1.3	0.0	1.5	100.9	89.2	116.1	102.1
Dairyland Stealth 1118(sx)	1	17.2	25.1	0.0	14.1	92.2	74.0	139.7*	102.0
Hawkeye Hybrids 8179(sx)	2	18.2	8.6	0.6	9.1	92.8	75.6	134.8*	101.1
Pioneer Hybrid 3223(sx)	4	29.4	2.8	1.1	11.1	103.2	84.2	115.6	101.0
Dekalb DK626(sx)	2	3.9	11.9	0.5	5.4	101.9	91.5	109.2	100.9
Terra TR1154(sx)	2	6.9	39.4	0.0	15.4	108.9	79.3	114.6	100.9
Lynks 2815(sx)	2	3.0	0.6	0.0	1.2	93.7	68.0	140.9*	100.9
Triumph 2010(sx)	2	2.7	13.8	1.1	5.9	114.3*	87.4	100.6	100.8
Merschman M-5112(sx)	1	2.7	18.8	0.0	7.2	104.2	82.4	115.5	100.7
Crow's 685(sx)	2	4.7	12.5	0.0	5.7	96.2	81.2	124.0	100.5
Bo-Jac 409(sx)	1	9.7	30.2	0.0	13.3	110.2	79.5	111.7	100.5
Mello-Dent 7810(sx)	1	1.8	0.0	0.0	0.6	99.8	82.0	118.9	100.2
MFA MX4476(sx)	3	5.3	3.0	0.0	2.8	106.5	85.0	108.6	100.0
Middlekoop 717(sx)	2	3.1	7.2	0.0	3.4	106.0	81.9	111.8	99.9
Randell 7114(sx)	2	4.0	7.3	0.0	3.8	99.4	78.5	120.2	99.4
Pioneer Hybrid 3279(sx)	3	5.5	6.5	0.0	4.0	92.6	82.2	122.2	99.0
Scott's 4112(sx)	2	15.7	10.2	0.0	8.6	94.4	91.3	110.4	98.7
Terra TR1130(sx)	2	10.7	8.9	0.0	6.5	86.9	75.3	133.7*	98.6
Pioneer Hybrid 3163(sx)	4	22.2	31.3	0.5	18.0	98.9	82.6	114.4	98.6
Ciba 4450(sx)	1	17.2	12.6	0.0	9.9	86.2	83.2	125.9	98.4
Ohlde 300(sx)	2	20.3	17.1	0.7	12.7	108.1	93.9	92.2	98.1
Stine Brand 9704(sx)	3	5.8	13.9	1.1	6.9	99.5	75.6	117.1	97.4
AgriPro AP 619(sx)	1	2.1	4.9	0.0	2.3	94.6	65.3	131.3	97.1
Merschman M-5115(sx)	1	21.3	30.9	0.0	17.4	112.4*	63.3	114.7	96.8
ICI 8476(sx)	1	2.8	1.8	0.0	1.5	95.5	81.2	113.2	96.6
Rainbow 3109(sx)	2	7.9	3.4	0.5	3.9	114.6*	80.5	94.4	96.5
Ohlde 510(sx)	3	4.6	19.5	0.0	8.0	96.6	88.0	100.1	94.9
Lynks 2868(sx)	3	24.9	17.8	0.6	14.4	91.1	90.0	102.8	94.6
Scott's 4116(spx)	2	16.0	10.1	1.2	9.1	83.3	77.9	121.1	94.1
MFA 5823(sx)	4	6.2	25.0	0.6	10.6	92.8	77.7	108.7	93.1
NC+ 7117(sx)	2	17.7	2.6	0.0	6.8	102.5	83.6	92.9	93.0
Middlekoop 814(sx)	2	6.4	1.9	0.0	2.8	90.8	87.9	99.5	92.7
Patriot 65100(sx)	3	8.7	14.1	0.0	7.6	87.8	69.3	120.6	92.6
Rainbow 2142(sx)	2	13.9	22.0	0.0	12.0	96.5	79.4	91.3	89.1
Crow's 490(sx)	1	7.6	29.9	1.1	12.9	82.9	63.8	116.9	87.9
Stine Brand 9602(sx)	2	24.1	16.8	0.0	13.6	90.2	66.2	106.8	87.7
AVERAGE		10.9	12.9	0.3	8.0	107.6	88.8	125.6	107.3
L.S.D. AT .10		13.4	19.0	1.0	7.7	22.1	19.0	28.8	13.7
C.V. %						14.9	15.5	16.7	16.5

** Highest yielding hybrid in the test.

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

TABLE 6. Performance of Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm during 1993-95.

Planted: 28 April 1995
 Harvested: 28 September 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=6.3, OM=3.1%, P=89, K=331

Fertilizer: N=250; P₂O₅=100; K₂O=100
 Herbicide: Dual + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybeans

Growing Season Rainfall: Apr.=6.0, May=11.7, June=4.0, July=6.5, Aug.=6.4, TOTAL=34.6"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Terra TR1185(sx)	3	20800	22.0	0.0	180.5**	189.5	--	185.0	--
Golden Harvest H-2581(sx)	1	21800	18.5	0.0	180.0*	--	--	--	--
Burrus BX86(sx)	4	21300	20.9	0.0	174.9*	--	--	--	--
Merschman M-3117(sx)	1	22100	20.6	0.0	174.5*	198.5*	115.5	186.5	162.8
Burrus BX64(sx)	3	22000	18.1	0.0	174.3*	202.1*	140.0	188.2	172.1
McAllister 9319(sx)	3	20000	19.0	0.0	173.2*	172.8	--	173.0	--
Pioneer Hybrid 3223(sx)	4	18700	18.4	0.6	173.1*	--	--	--	--
Lewis 6294(sx)	2	20200	18.9	0.0	172.4*	189.4	--	180.9	--
Kruger K-9620(sx)	2	19800	21.3	0.0	171.6*	--	--	--	--
Freedom 5695(sx)	2	20400	21.0	0.6	170.7*	--	--	--	--
Kruger K-9618(sx)	2	21300	19.5	0.0	169.6*	--	--	--	--
MFA 5823(sx)	4	20200	20.0	0.0	167.8*	187.2	141.8*	177.5	165.6
Cargill 8327(sx)	4	21200	20.2	0.0	167.6*	197.9*	147.7*	182.8	171.1
Terra TR1167(sx)	3	20500	20.7	0.6	167.5*	185.6	146.8*	176.6	166.6
Pioneer Hybrid 3335(sx)	4	20400	17.5	0.0	167.3*	--	--	--	--
MFA MX4476(sx)	3	20000	19.0	0.0	167.0*	--	--	--	--
Triumph 1522(sx)	1	21500	18.8	1.1	166.7*	--	--	--	--
Ciba 4581(sx)	2	20300	20.5	0.6	166.2*	201.2*	--	183.7	--
Lynks 2829(sx)	2	20400	20.8	0.0	166.1*	196.8*	159.7*	181.5	174.2
Golden Harvest H-2573(sx)	1	20400	18.2	0.6	166.0*	190.6	--	178.3	--
Merschman M-2121(sx)	1	20400	20.0	0.0	164.9*	194.9*	116.8	179.9	158.9
Merschman M-3120(sx)	1	21200	20.2	0.0	163.8*	179.6	138.0	171.7	160.5
Middlekoop 514(sx)	2	19800	18.5	1.2	163.1*	199.9*	137.6	181.5	166.9
Patriot 67192(sx)	4	19800	18.5	1.2	163.1*	--	--	--	--
Patriot 66168(sx)	4	19800	18.5	1.2	163.1*	--	--	--	--
Freedom 5575(sx)	2	20100	18.4	0.0	162.8*	--	--	--	--
Triumph 2010(sx)	2	19100	20.7	0.0	161.7*	--	--	--	--
Hubner H 3414(sx)	2	19200	18.9	1.9	161.6*	190.2	--	175.9	--
AgriPro HS 9843(sx)	3	20200	20.7	0.6	161.5*	174.5	134.3	168.0	156.8
ICI 8330(sx)	2	20400	19.3	0.0	161.3	--	--	--	--
Freedom 5697(sx)	2	20900	20.1	2.0	160.9	--	--	--	--
Ciba 4545(sx)	2	21300	18.5	0.0	160.5	--	--	--	--
Golden Harvest H-2548(sx)	1	19200	18.2	1.2	160.4	207.6*	120.3	184.0	162.8
Pfister 3965(sx)	2	19500	20.1	0.0	160.0	--	--	--	--
Lynks 2868(sx)	3	19200	19.7	0.0	160.0	186.1	160.5*	173.1	168.9
Middlekoop 718(sx)	2	20000	21.8	0.0	159.8	169.9	144.0*	164.9	157.9
Pioneer Hybrid 3163(sx)	4	20100	19.5	0.6	159.6	219.4**	167.0*	189.5	182.0
Triumph 1452(sx)	1	19900	18.5	0.0	159.2	--	--	--	--
Cargill 7777(sx)	3	20600	18.2	0.0	158.7	185.3	--	172.0	--
JMS SX1163(sx)	3	20900	20.2	0.0	158.7	193.6*	--	176.1	--
MFA MX5356(sx)	4	20300	17.2	0.0	158.4	--	--	--	--
Merschman M-3115(sx)	1	19800	19.6	0.6	157.7	182.6	125.5	170.1	155.3
AgriPro AP 619(sx)	1	18400	18.8	0.0	157.6	--	--	--	--
Merschman M-5117(sx)	1	19800	20.1	0.0	157.1	--	--	--	--
AgriPro HS 9848(sx)	3	20700	20.3	0.0	156.7	181.4	149.4*	169.1	162.5
ICI 8281(sx)	2	20300	18.8	0.6	156.6	206.7*	--	181.6	--
Golden Harvest H-2622(sx)	2	20600	19.8	0.0	156.3	197.9*	--	177.1	--
Dekalb DK646(sx)	2	18900	18.7	0.0	156.0	197.4*	147.1*	176.7	166.8
Middlekoop 813(sx)	2	19200	16.7	0.0	155.4	--	--	--	--
Fontanelle 5222(sx)	1	21200	17.8	0.6	155.0	209.6*	--	182.3	--
Burrus BX87+(sx)	4	20000	20.3	0.6	154.7	198.7*	149.8*	176.7	167.7
Freedom 5666(sx)	2	18100	19.2	0.0	154.3	--	--	--	--
Cargill 7997(sx)	2	20300	18.2	0.7	154.2	207.1*	119.9	180.6	160.4
MFA 4715(sx)	3	21100	17.1	0.0	154.1	--	--	--	--
Kruger K-9417(sx)	2	19400	18.5	0.0	153.9	--	--	--	--
NC+ 6959(sx)	2	18100	20.3	0.0	153.6	173.8	--	163.7	--
Lynks 2815(sx)	2	20400	18.4	0.0	153.4	--	--	--	--
Bioseed 9600(sx)	2	18500	19.6	0.0	153.2	--	--	--	--

TABLE 6. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Middlekoop 817(sx)	2	19300	18.9	1.3	153.1	--	--	--	--
MFA 5225(sx)	4	18600	18.5	0.0	153.0	--	--	--	--
Dekalb DK626(sx)	2	18100	18.3	0.0	153.0	212.8*	--	182.9	--
Ciba 4575(sx)	2	19600	19.1	0.0	152.9	--	--	--	--
Bioseed 9550(sx)	2	19000	18.6	0.0	152.9	--	--	--	--
Hubner H 3915(sx)	2	20600	20.8	0.0	152.5	--	149.5*	--	--
Middlekoop 717(sx)	2	20200	18.1	0.0	152.5	178.3	148.0*	165.4	159.6
Dekalb DK668(sx)	2	19500	20.9	1.9	152.1	--	--	--	--
LG Seeds LG2632(sx)	2	20300	17.9	0.6	151.9	--	--	--	--
Lewis 4503(sx)	1	19900	17.9	1.2	151.7	--	--	--	--
JMS SX1142(sx)	3	19000	20.4	0.0	151.6	199.8*	--	175.7	--
NC+ 7117(sx)	2	19300	19.9	0.0	151.2	--	124.8	--	--
Terra TR1154(sx)	2	19700	18.7	0.0	150.9	--	--	--	--
Kruger K-9722(sx)	3	19200	22.4	0.0	150.8	--	--	--	--
Merschman M-5116(sx)	1	17800	17.5	0.6	150.0	--	--	--	--
Lynks 2821(sx)	2	20100	19.4	0.0	149.2	--	--	--	--
Mycogen 8240(sx)	4	18700	20.2	0.0	148.9	187.5	149.8*	168.2	162.1
Pioneer Hybrid 3279(sx)	3	18300	19.5	0.6	148.3	202.1*	--	175.2	--
Pioneer Hybrid 3394(sx)	3	18500	17.0	0.0	148.1	204.4*	128.6	176.3	160.4
Fontanelle 5624(sx)	1	18500	18.9	0.0	147.9	--	--	--	--
McAllister 9316(sx)	1	20400	20.5	0.0	147.9	196.8*	151.2*	172.4	165.3
Cargill 7897(sx)	4	19800	16.7	0.6	147.0	--	--	--	--
Cargill 7557(sx)	3	20300	16.0	0.0	147.0	166.3	--	156.7	--
Golden Harvest H-2641(sx)	2	20400	20.2	0.0	146.7	181.5	147.1*	164.1	158.4
Pioneer Hybrid 3489(sx)	2	18000	17.0	0.0	145.3	194.8*	--	170.1	--
Middlekoop 814(sx)	2	19700	17.1	0.0	145.1	--	--	--	--
Bioseed 9555(sx)	2	18900	19.1	0.0	144.4	--	--	--	--
Middlekoop 815(sx)	2	18900	18.6	0.0	144.4	177.9	--	161.2	--
Ciba 4450(sx)	1	18000	18.2	0.0	144.2	173.8	--	159.0	--
Burrus BX62(sx)	3	20300	16.7	0.0	142.8	--	--	--	--
Cargill X7507(sx)	4	18600	18.1	0.0	142.0	--	--	--	--
Lewis 5643(sx)	1	19100	20.0	0.7	141.8	--	96.1	--	--
Ciba 4475(sx)	1	18200	16.5	0.0	141.5	--	--	--	--
Bioseed 9530(sx)	2	18500	16.7	0.6	141.4	--	--	--	--
Northrup King N6822(sx)	3	19800	17.2	0.7	140.5	--	--	--	--
Lewis 4985(sx)	1	18700	18.0	0.0	140.2	--	--	--	--
Lynks 2719(sx)	2	18600	16.7	0.0	139.9	--	--	--	--
Northrup King N7590(sx)	3	18900	18.4	1.9	139.1	--	--	--	--
Cargill 6997(sx)	4	20200	19.0	0.0	139.0	--	--	--	--
Golden Harvest H-2547(sx)	1	20200	17.3	0.0	136.0	--	--	--	--
Ciba 4494(sx)	2	19500	17.1	0.0	136.0	194.8*	112.2	165.4	147.7
Cargill 6303(sx)	2	20900	17.1	0.0	134.9	--	--	--	--
Merschman M-5115(sx)	1	21200	17.8	0.0	132.7	--	--	--	--
Stine Brand 9704(sx)	3	19000	15.9	0.0	132.6	--	--	--	--
Merschman M-5112(sx)	1	19900	17.7	0.0	129.9	--	--	--	--
Stine Brand 9801(sx)	2	17200	17.2	1.3	129.6	--	--	--	--
Northrup King N7070(sx)	3	18900	17.7	0.7	128.2	--	--	--	--
Pioneer Hybrid 3523(sx)	1	19800	15.6	0.0	127.5	--	--	--	--
AgriPro HS 9502(sx)	1	15400	19.2	0.0	126.3	207.7*	158.9*	167.0	164.3
Merschman M-5114(sx)	1	19300	15.5	0.0	115.0	--	--	--	--
TRIAL AVERAGE		19730	18.8	0.3	153.8	187.9	134.8	170.8	158.8
L.S.D. AT .10¹		2296	1.0	NS	19.1	28.4	31.2		
C.V. %		8.5	4.0		9.1	9.3	14.2		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

NS Not significant.

TABLE 7. Performance of Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1995.

Planted: 15 June 1995
 Harvested: 18 October 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.1, OM=1.1%, P=55, K=223

Fertilizer: N=280; P₂O₅=70; K₂O=90
 Herbicide: Supress + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybeans

Growing Season Rainfall: May=14.5, June=3.9, July=4.4, Aug.=7.1, Sept.=2.3 TOTAL=32.2"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Pioneer Hybrid 3279(sx)	3	21100	29.4	2.8	121.9**	--	--	--	--
Fontanelle 5222(sx)	1	19000	28.0	1.4	117.5*	--	--	--	--
Middlekoop 815(sx)	2	20400	28.0	1.9	117.1*	--	--	--	--
Pioneer Hybrid 3394(sx)	3	20800	27.9	0.4	116.9*	--	--	--	--
Lewis 5643(sx)	1	19800	32.6	0.1	116.3*	--	--	--	--
Pioneer Hybrid 3523(sx)	1	18600	26.0	0.0	115.6*	--	--	--	--
Merschman M-5112(sx)	1	18600	27.4	0.7	115.5*	--	--	--	--
Kruger K-9618(sx)	2	21000	33.8	0.5	115.5*	--	--	--	--
Ciba 4475(sx)	1	20700	27.3	3.2	114.9*	--	--	--	--
Lynks 2829(sx)	2	20000	34.0	0.7	114.5*	--	--	--	--
Burrus BX62(sx)	3	20400	31.4	2.5	113.6*	--	--	--	--
Ciba 4575(sx)	2	20400	31.1	1.6	113.6*	--	--	--	--
Burrus BX86(sx)	4	18600	33.8	1.5	113.3*	--	--	--	--
Hubner H 3915(sx)	2	20700	36.2	1.2	113.2*	--	--	--	--
Stine Brand 9801(sx)	2	20300	33.6	2.8	113.1*	--	--	--	--
Ciba 4581(sx)	2	19500	36.1	2.4	113.1*	--	--	--	--
LG Seeds LG2632(sx)	2	20300	30.1	2.0	112.7*	--	--	--	--
Cargill 7777(sx)	3	19400	30.1	2.2	112.2*	--	--	--	--
Pioneer Hybrid 3223(sx)	4	19200	37.4	1.1	111.8*	--	--	--	--
AgriPro AP 619(sx)	1	20500	27.8	1.1	111.2*	--	--	--	--
Cargill 7997(sx)	2	20700	32.5	0.7	110.8*	--	--	--	--
Fontanelle 5624(sx)	1	19500	34.8	1.2	110.7*	--	--	--	--
Golden Harvest H-2581(sx)	1	20800	31.5	0.0	110.5*	--	--	--	--
Golden Harvest H-2547(sx)	1	20800	26.7	2.4	109.7*	--	--	--	--
Merschman M-3120(sx)	1	19000	33.9	2.1	109.5*	--	--	--	--
Kruger K-9620(sx)	2	19800	34.1	2.6	109.5*	--	--	--	--
Lewis 4503(sx)	1	20400	36.8	1.9	109.2*	--	--	--	--
Northrup King N7590(sx)	3	19100	30.3	1.2	108.9*	--	--	--	--
Dekalb DK626(sx)	2	19300	29.3	2.4	108.9*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	19800	32.8	0.1	108.6*	--	--	--	--
Cargill X7507(sx)	4	18400	31.1	1.1	108.3*	--	--	--	--
Mycogen 8240(sx)	4	20000	36.4	0.6	108.3*	--	--	--	--
ICI 8330(sx)	2	19900	32.4	0.9	108.1*	--	--	--	--
Triumph 2010(sx)	2	20500	33.6	1.3	108.0*	--	--	--	--
Freedom 5575(sx)	2	21000	28.4	3.0	107.9*	--	--	--	--
Golden Harvest H-2548(sx)	1	18500	30.1	0.6	107.7*	--	--	--	--
Burrus BX64(sx)	3	21700	28.4	2.9	107.6*	--	--	--	--
Ciba 4494(sx)	2	20500	25.0	4.0	107.6*	--	--	--	--
Dekalb DK668(sx)	2	21100	37.6	0.5	107.3*	--	--	--	--
Middlekoop 813(sx)	2	21400	24.3	4.1	107.2*	--	--	--	--
Northrup King N6822(sx)	3	20800	27.8	2.9	106.9*	--	--	--	--
Burrus BX87+(sx)	4	21000	38.2	1.6	106.6*	--	--	--	--
Middlekoop 717(sx)	2	21100	30.1	0.0	106.6*	--	--	--	--
McAllister 9319(sx)	3	20500	38.4	1.3	106.5*	--	--	--	--
Triumph 1452(sx)	1	20200	32.6	2.4	106.3*	--	--	--	--
Merschman M-5117(sx)	1	20700	35.1	1.1	106.3*	--	--	--	--
MFA 5225(sx)	4	19100	33.0	2.5	106.1*	--	--	--	--
Middlekoop 814(sx)	2	19500	30.4	1.7	106.1*	--	--	--	--
Pioneer Hybrid 3489(sx)	2	18600	24.8	0.0	106.0*	--	--	--	--
AgriPro HS 9848(sx)	3	20500	33.6	0.0	105.9*	--	--	--	--
Golden Harvest H-2641(sx)	2	19800	38.2	1.9	105.6*	--	--	--	--
McAllister 9316(sx)	1	20500	29.4	2.6	105.5*	--	--	--	--
Ciba 4450(sx)	1	20000	28.0	0.9	105.3*	--	--	--	--
Merschman M-3115(sx)	1	19300	30.4	3.1	105.3*	--	--	--	--
Bioseed 9530(sx)	2	20100	26.4	4.7	104.8*	--	--	--	--
NC+ 6959(sx)	2	20400	36.6	0.6	104.8*	--	--	--	--
Kruger K-9722(sx)	3	20000	37.3	1.2	104.7*	--	--	--	--
JMS SX1142(sx)	3	20600	38.9	1.5	103.9	--	--	--	--

TABLE 7. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	(Bu/Acre)	1994	1993	2 Yr.	3 Yr.
			1995		1995				
MFA 5823(sx)	4	19500	34.5	3.1	103.4	--	--	--	--
Triumph 1522(sx)	1	20700	26.9	2.3	103.3	--	--	--	--
MFA 4715(sx)	3	20500	28.9	1.4	102.8	--	--	--	--
Northrup King N7070(sx)	3	20100	29.3	0.7	102.8	--	--	--	--
Lewis 6294(sx)	2	20200	36.5	0.6	102.7	--	--	--	--
Middlekoop 718(sx)	2	20700	35.6	1.3	102.1	--	--	--	--
AgriPro HS 9843(sx)	3	21800	38.0	2.1	102.0	--	--	--	--
Cargill 6997(sx)	4	20400	26.3	0.4	102.0	--	--	--	--
Merschman M-2121(sx)	1	20200	34.7	0.1	101.8	--	--	--	--
Lynks 2868(sx)	3	20800	38.1	0.6	101.5	--	--	--	--
Bioseed 9555(sx)	2	21700	36.1	1.8	101.3	--	--	--	--
Golden Harvest H-2573(sx)	1	17700	35.8	0.5	101.2	--	--	--	--
Cargill 8327(sx)	4	19800	36.8	1.7	101.1	--	--	--	--
Bioseed 9600(sx)	2	19500	37.7	1.8	100.3	--	--	--	--
ICI 8281(sx)	2	19700	35.4	3.0	99.4	--	--	--	--
Middlekoop 817(sx)	2	20000	36.6	1.6	99.2	--	--	--	--
MFA MX5356(sx)	4	20100	30.4	2.0	99.2	--	--	--	--
Bioseed 9550(sx)	2	20100	35.7	2.1	99.0	--	--	--	--
Cargill 6303(sx)	2	20200	23.8	2.0	98.3	--	--	--	--
Lynks 2815(sx)	2	21300	33.5	2.5	97.9	--	--	--	--
Golden Harvest H-2622(sx)	2	20400	35.3	1.4	97.7	--	--	--	--
Terra TR1154(sx)	2	19200	34.2	1.6	97.5	--	--	--	--
Lynks 2719(sx)	2	20500	32.0	3.5	97.4	--	--	--	--
Lewis 4985(sx)	1	17500	31.8	0.6	97.2	--	--	--	--
Cargill 7557(sx)	3	18200	30.5	0.7	97.0	--	--	--	--
Hubner H 3414(sx)	2	18700	30.7	5.0	96.9	--	--	--	--
Dekalb DK646(sx)	2	19800	36.6	0.6	96.7	--	--	--	--
Ciba 4545(sx)	2	20400	33.7	0.4	96.6	--	--	--	--
Stine Brand 9704(sx)	3	19500	34.6	1.3	96.4	--	--	--	--
Pioneer Hybrid 3335(sx)	4	20700	35.4	3.0	96.4	--	--	--	--
Freedom 5697(sx)	2	21000	37.0	0.2	96.4	--	--	--	--
Merschman M-5114(sx)	1	18600	32.7	0.6	95.6	--	--	--	--
Freedom 5666(sx)	2	19600	29.5	2.5	94.9	--	--	--	--
Freedom 5695(sx)	2	19100	36.3	1.3	94.0	--	--	--	--
Merschman M-5115(sx)	1	18200	24.2	1.2	93.8	--	--	--	--
Middlekoop 514(sx)	2	20200	32.5	0.8	93.6	--	--	--	--
Patriot 66168(sx)	4	20200	32.5	0.8	93.6	--	--	--	--
Patriot 67192(sx)	4	20200	32.5	0.8	93.6	--	--	--	--
Merschman M-3117(sx)	1	19900	37.2	1.7	92.9	--	--	--	--
Terra TR1167(sx)	3	18800	38.3	0.8	92.7	--	--	--	--
NC+ 7117(sx)	2	19300	36.4	1.4	92.2	--	--	--	--
Lynks 2821(sx)	2	20200	34.1	2.8	91.9	--	--	--	--
Merschman M-5116(sx)	1	18400	36.1	2.1	91.9	--	--	--	--
Cargill 7897(sx)	4	19000	37.7	2.1	90.8	--	--	--	--
MFA MX4476(sx)	3	20300	30.8	3.0	90.7	--	--	--	--
Pfister 3965(sx)	2	19800	34.5	1.1	90.3	--	--	--	--
Kruger K-9417(sx)	2	21200	35.2	1.1	90.0	--	--	--	--
AgriPro HS 9502(sx)	1	18800	35.1	1.8	89.2	--	--	--	--
Terra TR1185(sx)	3	20500	37.7	3.9	88.6	--	--	--	--
JMS SX1163(sx)	3	21300	38.8	0.1	85.4	--	--	--	--
TRIAL AVERAGE		19988	32.7	1.6	103.7				
L.S.D. AT .10¹		1846	4.3	NS	17.8				
C.V. %		6.7	9.7		12.4				

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

NS Not significant.

TABLE 8. Performance of Corn Hybrids evaluated near High Hill (Montgomery County) on the John Cobb Farm during 1994-95 and near McKittrick on the Terry Koenig farm during 1992.

Planted: 6 June 1995
 Harvested: 12 October 1995
 Planted Population: 23200
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.4, OM=2.7%, P=62, K=252

Fertilizer: N=225; P₂O₅=70; K₂O=90
 Herbicide: Sypress + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: May=12.3, June=4.2, July=4.5, Aug.=8.1, Sept.=2.2 TOTAL=31.3"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1995	1994	1992	2 Yr.
Hubner H 3414(sx)	2	21000	21.3	0.6	173.6**	104.6*	--	139.1	--
Lewis 6294(sx)	2	20600	25.7	0.0	170.9*	92.7	--	131.8	--
Fontanelle 5222(sx)	1	21900	21.7	0.0	169.0*	96.9	--	133.0	--
AgriPro HS 9848(sx)	3	21400	26.1	0.0	167.6*	93.1	--	130.4	--
Merschman M-5116(sx)	1	20500	21.8	0.0	167.5*	--	--	--	--
JMS SX1142(sx)	3	20900	24.8	0.0	165.9*	84.7	--	125.3	--
Ciba 4575(sx)	2	22300	24.6	0.0	163.9*	--	--	--	--
Golden Harvest H-2573(sx)	1	22900	22.4	0.0	163.3*	86.7	--	125.0	--
Middlekoop 817(sx)	2	19700	22.7	0.0	162.9*	--	--	--	--
Ciba 4494(sx)	2	21100	19.9	0.6	162.9*	94.6	--	128.8	--
Pioneer Hybrid 3394(sx)	3	21400	21.2	1.1	162.2*	106.2*	212.7	134.2	160.4
Cargill 7777(sx)	3	21800	22.8	0.0	161.8*	105.9*	--	133.9	--
NC+ 6959(sx)	2	22400	25.2	0.0	160.7*	90.8	197.8	125.8	149.8
ICI 8330(sx)	2	20800	23.3	0.0	160.2*	--	--	--	--
Patriot 67192(sx)	4	20700	20.8	0.0	160.1*	--	--	--	--
Middlekoop 514(sx)	2	20700	20.8	0.0	160.1*	84.5	204.6	122.3	149.7
Patriot 66168(sx)	4	20700	20.8	0.0	160.1*	--	--	--	--
Burrus BX86(sx)	4	21300	24.6	0.0	159.7*	--	--	--	--
Merschman M-5117(sx)	1	22100	24.2	0.6	159.1*	--	--	--	--
Middlekoop 718(sx)	2	19800	25.0	0.0	158.9*	96.7	--	127.8	--
Cargill 7997(sx)	2	21700	23.0	0.0	158.5*	106.3*	226.6*	132.4	163.8
Merschman M-2121(sx)	1	20000	26.5	0.6	158.5*	91.2	--	124.9	--
Freedom 5697(sx)	2	19100	28.4	0.7	157.7*	--	--	--	--
Mycogen 8240(sx)	4	21200	25.1	0.0	157.3*	96.0	--	126.7	--
ICI 8281(sx)	2	19500	26.8	0.0	157.0*	93.6	--	125.3	--
Triumph 1522(sx)	1	22100	20.6	0.0	156.5*	--	--	--	--
Freedom 5666(sx)	2	20100	25.2	0.0	156.5*	--	--	--	--
Lewis 5643(sx)	1	20200	25.0	0.6	156.5*	--	--	--	--
Cargill 7897(sx)	4	21900	23.1	0.6	156.0*	--	--	--	--
Northrup King N7070(sx)	3	19900	24.1	0.0	155.9*	--	--	--	--
Golden Harvest H-2581(sx)	1	19400	22.1	0.6	155.6	--	--	--	--
LG Seeds LG2632(sx)	2	20800	22.1	0.6	155.5	--	--	--	--
MFA 5823(sx)	4	21100	26.3	0.0	155.4	86.2	--	120.8	--
Merschman M-3115(sx)	1	19000	21.3	1.8	155.3	108.1*	--	131.7	--
Terra TR1154(sx)	2	19700	25.4	0.0	154.8	--	--	--	--
Kruger K-9417(sx)	2	20100	22.6	0.7	154.7	--	--	--	--
Fontanelle 5624(sx)	1	22200	23.2	0.0	154.7	--	--	--	--
Northrup King N7590(sx)	3	19900	23.2	1.2	154.4	--	--	--	--
Terra TR1167(sx)	3	21200	26.0	0.0	154.3	78.5	191.2	116.4	141.3
Bioseed 9555(sx)	2	20800	24.3	0.0	154.1	--	--	--	--
Golden Harvest H-2622(sx)	2	21000	26.0	0.0	154.1	101.5*	--	127.8	--
Pioneer Hybrid 3279(sx)	3	21100	22.7	1.8	154.0	110.0*	--	132.0	--
Burrus BX62(sx)	3	20700	21.5	0.6	153.9	--	--	--	--
Lewis 4503(sx)	1	20600	24.7	0.0	153.8	--	--	--	--
Pioneer Hybrid 3223(sx)	4	21200	29.4	0.6	153.6	--	--	--	--
Lewis 4985(sx)	1	21100	22.5	0.0	152.8	--	--	--	--
Pioneer Hybrid 3489(sx)	2	19900	20.1	2.6	152.4	96.8	--	124.6	--
Pfister 3965(sx)	2	20300	26.8	0.6	152.2	--	--	--	--
Triumph 2010(sx)	2	22600	25.5	0.5	152.1	--	--	--	--
Ciba 4450(sx)	1	20100	20.3	1.2	151.9	88.5	--	120.2	--
Bioseed 9600(sx)	2	20100	25.7	1.3	151.9	--	--	--	--
Ciba 4545(sx)	2	21700	24.8	0.0	151.9	--	--	--	--
Golden Harvest H-2641(sx)	2	20200	26.6	1.2	151.8	91.4	209.6	121.6	150.9
MFA 5225(sx)	4	20000	23.7	0.6	151.5	--	--	--	--
Cargill 7557(sx)	3	20500	21.1	0.0	151.4	110.9*	--	131.2	--
Terra TR1185(sx)	3	21200	25.7	0.6	151.1	98.9*	--	125.0	--
Merschman M-5114(sx)	1	20600	22.8	0.0	150.9	--	--	--	--
McAllister 9319(sx)	3	21400	28.0	0.0	150.9	82.4	--	116.7	--

TABLE 8. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1992	2 Yr.	3 Yr.
MFA 4715(sx)	3	21000	21.0	0.0	150.8	--	--	--	--
Lynks 2815(sx)	2	22400	21.8	0.0	150.7	--	--	--	--
Dekalb DK626(sx)	2	18200	20.1	0.7	150.4	110.0*	--	130.2	--
Pioneer Hybrid 3163(sx)	4	20900	28.8	0.0	150.1	88.0	--	119.1	--
Pioneer Hybrid 3523(sx)	1	20400	19.8	0.0	150.1	--	--	--	--
Dekalb DK668(sx)	2	21400	26.6	0.6	150.1	--	--	--	--
Middlekoop 717(sx)	2	19100	23.5	0.0	150.0	97.1	--	123.6	--
AgriPro HS 9843(sx)	3	20800	27.6	0.0	149.9	77.8	224.5*	113.9	150.7
Kruger K-9618(sx)	2	20600	23.5	1.1	149.6	--	--	--	--
Ciba 4475(sx)	1	20700	21.8	0.6	149.4	--	--	--	--
Lynks 2829(sx)	2	20900	26.5	0.0	149.0	90.0	--	119.5	--
Stine Brand 9801(sx)	2	20400	24.4	0.0	148.8	--	--	--	--
Lynks 2868(sx)	3	21200	27.2	0.0	148.7	97.0	--	122.9	--
Ciba 4581(sx)	2	21500	26.5	1.8	148.3	87.2	--	117.8	--
Kruger K-9620(sx)	2	22000	23.8	0.5	148.1	--	--	--	--
Merschman M-3117(sx)	1	21000	26.9	0.0	148.1	82.8	--	115.5	--
MFA MX5356(sx)	4	20000	22.1	0.6	147.9	--	--	--	--
Burrus BX87+(sx)	4	21800	26.1	0.6	147.8	93.4	225.7*	120.6	155.6
Hubner H 3915(sx)	2	21000	28.6	0.6	147.8	--	--	--	--
AgriPro HS 9502(sx)	1	20700	23.3	0.0	147.8	88.6	226.1*	118.2	154.2
Merschman M-3120(sx)	1	21400	26.3	0.0	147.5	84.5	--	116.0	--
Bioseed 9550(sx)	2	19400	22.5	0.6	146.9	--	--	--	--
Golden Harvest H-2547(sx)	1	20100	22.4	0.0	146.8	--	--	--	--
Cargill X7507(sx)	4	20400	24.8	0.6	146.7	--	--	--	--
Freedom 5695(sx)	2	20400	28.2	0.0	146.5	--	--	--	--
JMS SX1163(sx)	3	21200	27.1	0.0	146.4	87.4	--	116.9	--
Merschman M-5112(sx)	1	21500	20.7	0.6	146.3	--	--	--	--
Golden Harvest H-2548(sx)	1	21500	21.2	0.6	146.0	117.0**	--	131.5	--
Middlekoop 813(sx)	2	19800	19.2	0.0	145.9	--	--	--	--
NC+ 7117(sx)	2	22700	27.1	0.5	145.5	--	--	--	--
Dekalb DK646(sx)	2	19600	21.1	0.0	145.1	99.6*	222.7*	122.4	155.8
Lynks 2821(sx)	2	21300	24.0	0.5	145.1	--	--	--	--
Cargill 6997(sx)	4	21400	22.4	0.0	145.0	--	--	--	--
Cargill 8327(sx)	4	18900	28.3	0.0	144.6	96.0	--	120.3	--
MFA MX4476(sx)	3	22200	21.0	0.6	144.6	--	--	--	--
Middlekoop 814(sx)	2	19600	21.7	0.0	144.5	--	--	--	--
Triumph 1452(sx)	1	20600	22.7	0.6	144.3	--	--	--	--
Middlekoop 815(sx)	2	20500	21.1	0.7	144.2	113.4*	--	128.8	--
Stine Brand 9704(sx)	3	19900	22.6	0.0	143.9	--	--	--	--
McAllister 9316(sx)	1	21500	21.9	0.6	143.1	80.4	--	111.8	--
AgriPro AP 619(sx)	1	21100	22.4	0.0	142.9	--	--	--	--
Bioseed 9530(sx)	2	20500	19.1	0.0	141.6	--	--	--	--
Kruger K-9722(sx)	3	21100	29.4	0.6	141.5	--	--	--	--
Cargill 6303(sx)	2	20300	19.2	0.6	140.9	--	--	--	--
Lynks 2719(sx)	2	21200	21.8	0.0	140.8	--	--	--	--
Pioneer Hybrid 3335(sx)	4	21500	21.9	1.2	140.0	--	--	--	--
Freedom 5575(sx)	2	20500	22.7	0.0	136.3	--	--	--	--
Burrus BX64(sx)	3	21600	20.3	1.8	132.5	99.2*	--	115.9	--
Merschman M-5115(sx)	1	19700	20.0	0.0	132.3	--	--	--	--
Northrup King N6822(sx)	3	20900	18.2	0.0	129.5	--	--	--	--
TRIAL AVERAGE		20801	23.6	0.4	151.9	93.3	209.0	122.6	151.4
L.S.D. AT .10 ¹		1825	2.3	1.1	17.8	19.6	23.3		
C.V. %		6.4	7.2		8.6	12.9	7.0		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 9. Performance of Corn Hybrids evaluated near Marshall (Saline County) on the Frank Swisher Farm, near Columbia (Boone County) on the Agronomy Research Center, and near High Hill (Montgomery County) on the John Cobb Farm during 1995.

Brand-Hybrid	Mat- urity Group	Lodging (%)				Yield (Bu/Acre)			
		Marshall	Columba	HighHl	Mean	Marshall	Columba	HighHl	Mean
		Marshall Planted: 28 April 1995 Harvested: 28 September 1995 Growing Season Rainfall: 34.6"		Columbia Planted: 15 June 1995 Harvested: 18 October 1995 Growing Season Rainfall: 32.2"		High Hill Planted: 6 June 1995 Harvested: 12 October 1995 Growing Season Rainfall: 31.3"			
Burrus BX86(sx)	4	0.0	1.5	0.0	0.5	174.9*	113.3*	159.7*	149.3**
Lewis 6294(sx)	2	0.0	0.6	0.0	0.2	172.4*	102.7	170.9*	148.7*
Golden Harvest H-2581(sx)	1	0.0	0.0	0.6	0.2	180.0*	110.5*	155.6	148.7*
Fontanelle 5222(sx)	1	0.6	1.4	0.0	0.7	155.0	117.5*	169.0*	147.2*
Pioneer Hybrid 3223(sx)	4	0.6	1.1	0.6	0.8	173.1*	111.8*	153.6	146.2*
Kruger K-9618(sx)	2	0.0	0.5	1.1	0.5	169.6*	115.5*	149.6	144.9*
Cargill 7777(sx)	3	0.0	2.2	0.0	0.7	158.7	112.2*	161.8*	144.2*
Hubner H 3414(sx)	2	1.9	5.0	0.6	2.5	161.6*	96.9	173.6**	144.0*
McAllister 9319(sx)	3	0.0	1.3	0.0	0.4	173.2*	106.5*	150.9	143.5*
Ciba 4575(sx)	2	0.0	1.6	0.0	0.5	152.9	113.6*	163.9*	143.5*
Golden Harvest H-2573(sx)	1	0.6	0.5	0.0	0.4	166.0*	101.2	163.3*	143.5*
AgriPro HS 9848(sx)	3	0.0	0.0	0.0	0.0	156.7	105.9*	167.6*	143.4*
Lynks 2829(sx)	2	0.0	0.7	0.0	0.2	166.1*	114.5*	149.0	143.2*
ICI 8330(sx)	2	0.0	0.9	0.0	0.3	161.3	108.1*	160.2*	143.2*
Kruger K-9620(sx)	2	0.0	2.6	0.5	1.0	171.6*	109.5*	148.1	143.1*
Ciba 4581(sx)	2	0.6	2.4	1.8	1.6	166.2*	113.1*	148.3	142.5*
Pioneer Hybrid 3394(sx)	3	0.0	0.4	1.1	0.5	148.1	116.9*	162.2*	142.4*
Triumph I522(sx)	1	1.1	2.3	0.0	1.1	166.7*	103.3	156.5*	142.2*
MFA 5823(sx)	4	0.0	3.1	0.0	1.0	167.8*	103.4	155.4	142.2*
Merschman M-2121(sx)	1	0.0	0.1	0.6	0.2	164.9*	101.8	158.5*	141.7*
Pioneer Hybrid 3279(sx)	3	0.6	2.8	1.8	1.7	148.3	121.9**	154.0	141.4*
Cargill 7997(sx)	2	0.7	0.7	0.0	0.5	154.2	110.8*	158.5*	141.2*
Merschman M-5117(sx)	1	0.0	1.1	0.6	0.6	157.1	106.3*	159.1*	140.8*
Triumph 2010(sx)	2	0.0	1.3	0.5	0.6	161.7*	108.0*	152.1	140.6*
JMS SX1142(sx)	3	0.0	1.5	0.0	0.5	151.6	103.9	165.9*	140.5*
Merschman M-3120(sx)	1	0.0	2.1	0.0	0.7	163.8*	109.5*	147.5	140.3*
Middlekoop 718(sx)	2	0.0	1.3	0.0	0.4	159.8	102.1	158.9*	140.3*
Terra TR1185(sx)	3	0.0	3.9	0.6	1.5	180.5**	88.6	151.1	140.1*
LG Seeds LG2632(sx)	2	0.6	2.0	0.6	1.1	151.9	112.7*	155.5	140.0*
NC+ 6959(sx)	2	0.0	0.6	0.0	0.2	153.6	104.8*	160.7*	139.7*
Merschman M-3115(sx)	1	0.6	3.1	1.8	1.8	157.7	105.3*	155.3	139.4*
Pioneer Hybrid 3163(sx)	4	0.6	0.1	0.0	0.2	159.6	108.6*	150.1	139.4*
Middlekoop 514(sx)	2	1.2	0.8	0.0	0.7	163.1*	93.6	160.1*	138.9*
Patriot 66168(sx)	4	1.2	0.8	0.0	0.7	163.1*	93.6	160.1*	138.9*
Patriot 67192(sx)	4	1.2	0.8	0.0	0.7	163.1*	93.6	160.1*	138.9*
Merschman M-3117(sx)	1	0.0	1.7	0.0	0.6	174.5*	92.9	148.1	138.5*
Middlekoop 817(sx)	2	1.3	1.6	0.0	1.0	153.1	99.2	162.9*	138.4*
Freedom 5697(sx)	2	2.0	0.2	0.7	1.0	160.9	96.4	157.7*	138.3*
Mycogen 8240(sx)	4	0.0	0.6	0.0	0.2	148.9	108.3*	157.3*	138.2*
Lewis 4503(sx)	1	1.2	1.9	0.0	1.0	151.7	109.2*	153.8	138.2*
Lewis 5643(sx)	1	0.7	0.1	0.6	0.5	141.8	116.3*	156.5*	138.2*
Terra TR1167(sx)	3	0.6	0.8	0.0	0.5	167.5*	92.7	154.3	138.2*
Burrus BX64(sx)	3	0.0	2.9	1.8	1.6	174.3*	107.6*	132.5	138.1*
Golden Harvest H-2548(sx)	1	1.2	0.6	0.6	0.8	160.4	107.7*	146.0	138.0*
AgriPro HS 9843(sx)	3	0.6	2.1	0.0	0.9	161.5*	102.0	149.9	137.8*
Hubner H 3915(sx)	2	0.0	1.2	0.6	0.6	152.5	113.2*	147.8	137.8*
Cargill 8327(sx)	4	0.0	1.7	0.0	0.6	167.6*	101.1	144.6	137.8*
Fontanelle 5624(sx)	1	0.0	1.2	0.0	0.4	147.9	110.7*	154.7	137.8*
ICI 8281(sx)	2	0.6	3.0	0.0	1.2	156.6	99.4	157.0*	137.7*
Dekalb DK626(sx)	2	0.0	2.4	0.7	1.0	153.0	108.9*	150.4	137.4*
AgriPro AP 619(sx)	1	0.0	1.1	0.0	0.4	157.6	111.2*	142.9	137.2*
Freedom 5695(sx)	2	0.6	1.3	0.0	0.6	170.7*	94.0	146.5	137.1*
MFA 5225(sx)	4	0.0	2.5	0.6	1.0	153.0	106.1*	151.5	136.9
Burrus BX62(sx)	3	0.0	2.5	0.6	1.0	142.8	113.6*	153.9	136.8
Lynks 2868(sx)	3	0.0	0.6	0.0	0.2	160.0	101.5	148.7	136.7
Triumph 1452(sx)	1	0.0	2.4	0.6	1.0	159.2	106.3*	144.3	136.6
Merschman M-5116(sx)	1	0.6	2.1	0.0	0.9	150.0	91.9	167.5*	136.5
Dekalb DK668(sx)	2	1.9	0.5	0.6	1.0	152.1	107.3*	150.1	136.5
Burrus BX87+(sx)	4	0.6	1.6	0.6	0.9	154.7	106.6*	147.8	136.4
Middlekoop 717(sx)	2	0.0	0.0	0.0	0.0	152.5	106.6*	150.0	136.4

TABLE 9. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)				Yield (Bu/Acre)			
		Marshall	Columba	HighHI	Mean	Marshall	Columba	HighHI	Mean
Ciba 4545(sx)	2	0.0	0.4	0.0	0.1	160.5	96.6	151.9	136.3
Middlekoop 813(sx)	2	0.0	4.1	0.0	1.4	155.4	107.2*	145.9	136.2
Golden Harvest H-2622(sx)	2	0.0	1.4	0.0	0.5	156.3	97.7	154.1	136.0
MFA 4715(sx)	3	0.0	1.4	0.0	0.5	154.1	102.8	150.8	135.9
Freedom 5575(sx)	2	0.0	3.0	0.0	1.0	162.8*	107.9*	136.3	135.7
Ciba 4494(sx)	2	0.0	4.0	0.6	1.5	136.0	107.6*	162.9*	135.5
Ciba 4475(sx)	1	0.0	3.2	0.6	1.3	141.5	114.9*	149.4	135.3
Freedom 5666(sx)	2	0.0	2.5	0.0	0.8	154.3	94.9	156.5*	135.2
Middlekoop 815(sx)	2	0.0	1.9	0.7	0.9	144.4	117.1*	144.2	135.2
MFA MX5356(sx)	4	0.0	2.0	0.6	0.9	158.4	99.2	147.9	135.2
Bioseed 9600(sx)	2	0.0	1.8	1.3	1.0	153.2	100.3	151.9	135.1
Golden Harvest H-2641(sx)	2	0.0	1.9	1.2	1.0	146.7	105.6*	151.8	134.7
Pioneer Hybrid 3489(sx)	2	0.0	0.0	2.6	0.9	145.3	106.0*	152.4	134.6
Pioneer Hybrid 3335(sx)	4	0.0	3.0	1.2	1.4	167.3*	96.4	140.0	134.6
Terra TR1154(sx)	2	0.0	1.6	0.0	0.5	150.9	97.5	154.8	134.4
Pfister 3965(sx)	2	0.0	1.1	0.6	0.6	160.0	90.3	152.2	134.2
Northrup King N7590(sx)	3	1.9	1.2	1.2	1.4	139.1	108.9*	154.4	134.1
MFA MX4476(sx)	3	0.0	3.0	0.6	1.2	167.0*	90.7	144.6	134.1
Lynks 2815(sx)	2	0.0	2.5	0.0	0.8	153.4	97.9	150.7	134.0
Ciba 4450(sx)	1	0.0	0.9	1.2	0.7	144.2	105.3*	151.9	133.8
Bioseed 9555(sx)	2	0.0	1.8	0.0	0.6	144.4	101.3	154.1	133.3
Kruger K-9417(sx)	2	0.0	1.1	0.7	0.6	153.9	90.0	154.7	132.9
Bioseed 9550(sx)	2	0.0	2.1	0.6	0.9	152.9	99.0	146.9	132.9
Dekalb DK646(sx)	2	0.0	0.6	0.0	0.2	156.0	96.7	145.1	132.6
Cargill X7507(sx)	4	0.0	1.1	0.6	0.6	142.0	108.3*	146.7	132.3
Kruger K-9722(sx)	3	0.0	1.2	0.6	0.6	150.8	104.7*	141.5	132.3
McAllister 9316(sx)	1	0.0	2.6	0.6	1.1	147.9	105.5*	143.1	132.2
Middlekoop 814(sx)	2	0.0	1.7	0.0	0.6	145.1	106.1*	144.5	131.9
Cargill 7557(sx)	3	0.0	0.7	0.0	0.2	147.0	97.0	151.4	131.8
Cargill 7897(sx)	4	0.6	2.1	0.6	1.1	147.0	90.8	156.0*	131.3
Pioneer Hybrid 3523(sx)	1	0.0	0.0	0.0	0.0	127.5	115.6*	150.1	131.1
Golden Harvest H-2547(sx)	1	0.0	2.4	0.0	0.8	136.0	109.7*	146.8	130.8
Merschman M-5112(sx)	1	0.0	0.7	0.6	0.4	129.9	115.5*	146.3	130.6
Stine Brand 9801(sx)	2	1.3	2.8	0.0	1.4	129.6	113.1*	148.8	130.5
JMS SX1163(sx)	3	0.0	0.1	0.0	0.0	158.7	85.4	146.4	130.2
Lewis 4985(sx)	1	0.0	0.6	0.0	0.2	140.2	97.2	152.8	130.1
NC+ 7117(sx)	2	0.0	1.4	0.5	0.6	151.2	92.2	145.5	129.6
Bioseed 9530(sx)	2	0.6	4.7	0.0	1.8	141.4	104.8*	141.6	129.3
Northrup King N7070(sx)	3	0.7	0.7	0.0	0.5	128.2	102.8	155.9*	129.0
Cargill 6997(sx)	4	0.0	0.4	0.0	0.1	139.0	102.0	145.0	128.7
Lynks 2821(sx)	2	0.0	2.8	0.5	1.1	149.2	91.9	145.1	128.7
Lynks 2719(sx)	2	0.0	3.5	0.0	1.2	139.9	97.4	140.8	126.0
Northrup King N6822(sx)	3	0.7	2.9	0.0	1.2	140.5	106.9*	129.5	125.6
Cargill 6303(sx)	2	0.0	2.0	0.6	0.9	134.9	98.3	140.9	124.7
Stine Brand 9704(sx)	3	0.0	1.3	0.0	0.4	132.6	96.4	143.9	124.3
AgriPro HS 9502(sx)	1	0.0	1.8	0.0	0.6	126.3	89.2	147.8	121.1
Merschman M-5114(sx)	1	0.0	0.6	0.0	0.2	115.0	95.6	150.9	120.5
Merschman M-5115(sx)	1	0.0	1.2	0.0	0.4	132.7	93.8	132.3	119.6
AVERAGE		0.3	1.6	0.4	0.7	153.8	103.7	151.9	136.5
L.S.D. AT .10		NS	NS	1.1	0.9	19.1	17.8	17.8	12.3
C.V. %						9.1	12.4	8.6	11.6

** Highest yielding hybrid in the test.

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

NS Not significant.

TABLE 10. Performance of Irrigated Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1993-95.

Planted: 7 April 1995
 Harvested: 13 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=6.1, OM=1.1%, P=55, K=223

Fertilizer: N=300; P₂O₅=70; K₂O=90
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 6.0 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=7.4, May=14.5, June=3.9, July=4.4, Aug.=7.1, TOTAL=37.3"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Middlekoop 817(sx)	2	23100	24.5	0.5	185.1**	--	--	--	--
Lewis 6294(sx)	2	20300	28.3	0.6	184.8*	206.9	--	195.9	--
Middlekoop 718(sx)	2	25700	28.1	0.0	181.6*	191.5	196.5*	186.6	189.9
Golden Harvest H-2548(sx)	1	21600	24.6	1.1	178.8*	228.4*	185.5*	203.6	197.6
Pioneer Hybrid 3245(sx)	3	22500	26.7	1.1	178.1*	231.4*	168.1	204.8	192.5
Merschman M-3120(sx)	1	19500	25.8	0.0	175.8*	227.2*	191.9*	201.5	198.3
Lynks Seeds 2868(sx)	3	22100	30.4	1.9	174.9*	213.2*	183.9*	194.1	190.7
Triumph 2010(sx)	2	20200	29.4	0.5	171.4*	217.0*	183.0*	194.2	190.5
Middlekoop 514(sx)	2	21600	25.4	1.0	170.5*	231.9*	193.1*	201.2	198.5
Pioneer Hybrid 3163(sx)	4	21700	31.8	0.5	169.8*	225.8*	185.8*	197.8	193.8
Asgrow RX801(sx)	1	23000	25.2	0.6	168.8*	221.2*	182.8*	195.0	190.9
Pioneer Hybrid 3223(sx)	4	21600	27.8	0.0	167.8*	--	--	--	--
Merschman M-5117(sx)	1	19500	27.5	0.5	167.8*	--	--	--	--
Asgrow RX789(sx)	1	22900	25.5	0.6	166.5*	--	--	--	--
Pioneer Hybrid 3279(sx)	3	20400	26.3	3.6	165.8*	230.6*	--	198.2	--
Golden Harvest H-2581(sx)	1	24800	26.6	0.5	165.5	--	--	--	--
Pioneer Hybrid 3394(sx)	3	19900	22.7	1.2	165.3	216.7*	159.9	191.0	180.6
Merschman M-5116(sx)	1	23000	24.9	0.0	164.4	--	--	--	--
Golden Harvest H-2622(sx)	2	20300	27.5	0.0	164.3	220.1*	--	192.2	--
AgriPro AP 9707(sx)	3	20600	27.0	0.0	162.4	--	--	--	--
Pfister 3976(sx)	1	21900	30.2	0.0	161.1	--	--	--	--
Freedom 5695(sx)	2	21800	26.5	0.0	160.9	--	--	--	--
Asgrow RX770(sx)	1	23400	26.0	0.0	160.9	--	--	--	--
Dairyland Stealth 1416(sx)	1	20400	25.4	0.6	160.6	--	--	--	--
Merschman M-3117(sx)	1	23100	26.3	0.0	160.2	220.4*	187.4*	190.3	189.3
Northrup King N6330(sx)	2	18900	24.6	0.7	160.0	214.7*	166.8	187.4	180.5
Mycogen 7660(sx)	4	21900	25.4	0.5	159.8	--	--	--	--
Lewis 8492(sx)	3	19900	27.6	0.0	159.4	224.6*	189.7*	192.0	191.2
Stine Brand 9801(sx)	1	20200	25.7	0.0	157.7	--	--	--	--
Patriot 7170(sx)	4	21500	28.1	0.6	157.2	231.1*	--	194.1	--
Middlekoop 815(sx)	2	24500	23.1	0.0	156.7	191.3	--	174.0	--
Ciba 4450(sx)	1	22800	23.0	0.0	155.0	--	--	--	--
AgriPro HS 9848(sx)	3	21400	28.8	0.0	154.5	216.7*	175.5	185.6	182.2
Lewis 5584(sx)	1	21100	26.3	1.1	154.4	--	--	--	--
Cargill 7997(sx)	2	22000	25.7	0.0	152.4	220.7*	174.2	186.6	182.4
Dekalb DK646(sx)	2	17700	24.6	0.0	152.3	189.7	196.8*	171.0	179.6
Middlekoop 717(sx)	2	19800	27.7	0.0	152.3	218.8*	168.5	185.6	179.9
AgriPro HS 9843(sx)	3	20300	27.7	0.0	151.8	222.4*	187.2*	187.1	187.1
Triumph 1452(sx)	1	16900	28.1	0.8	151.5	193.7	--	172.6	--
Cargill 8327(sx)	4	20000	28.3	0.5	151.3	224.8*	201.0**	188.1	192.4
Asgrow RX893(sx)	1	20500	29.6	0.0	151.2	--	--	--	--
Lynks Seeds 2815(sx)	2	21900	25.0	0.0	150.1	--	--	--	--
Merschman M-5114(sx)	1	16700	21.0	0.0	149.4	--	--	--	--
Lynks Seeds 2829(sx)	2	21300	27.4	0.6	149.4	206.5	170.3	178.0	175.4
MFA MX 4476(sx)	3	20400	26.2	0.6	149.3	--	--	--	--
Patriot 6160(sx)	4	20800	24.2	0.6	149.1	200.3	--	174.7	--
Ciba 4575(sx)	2	17100	25.1	0.0	148.8	--	--	--	--
Dekalb DK626(sx)	2	20600	24.9	1.0	148.6	--	--	--	--
Middlekoop 813(sx)	2	20800	22.2	0.6	148.5	--	--	--	--
Cargill X7507(sx)	4	22100	24.5	0.0	148.0	--	--	--	--
ICI 8321(sx)	2	19000	26.7	0.5	147.8	--	--	--	--
Merschman M-2121(sx)	1	17900	27.6	0.0	146.9	222.1*	194.1*	184.5	187.7
Middlekoop 814(sx)	2	18800	25.9	1.2	146.8	--	--	--	--
Pioneer Hybrid 3489(sx)	2	22000	23.2	0.0	146.7	208.3	--	177.5	--
Northrup King N7590(sx)	3	21900	26.7	0.5	146.0	--	--	--	--
Merschman M-5115(sx)	1	19600	22.1	0.0	145.5	--	--	--	--
Golden Harvest H-2573(sx)	1	22000	25.7	0.0	144.3	197.0	--	170.7	--
Merschman M-3115(sx)	1	22500	25.2	0.0	144.2	206.1	168.9	175.1	173.1

TABLE 10. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	(Bu/Acre)	1994	1993	2 Yr.	3 Yr.
Triumph 1522(sx)	1	16600	26.5	0.0	143.2	--	--	--	--
MFA 5823(sx)	4	21300	28.2	0.0	142.7	219.8*	190.6*	181.3	184.4
Merschman M-5112(sx)	1	20500	22.0	0.6	142.4	--	--	--	--
Pioneer Hybrid 3335(sx)	4	22400	28.2	0.0	142.3	--	--	--	--
Ciba 4581(sx)	2	20800	28.1	0.0	142.1	224.4*	194.1*	183.3	186.9
MFA MX 5356(sx)	4	21400	26.5	1.6	141.4	--	--	--	--
Cargill 7777(sx)	3	22800	25.5	1.5	138.6	200.8	--	169.7	--
Cargill 6997(sx)	4	20600	23.1	0.5	135.5	--	--	--	--
Mycogen 8240(sx)	4	18300	28.2	0.0	134.7	220.3*	190.8*	177.5	181.9
Northrup King N6822(sx)	3	18900	25.1	2.1	133.8	198.8	--	166.3	--
Stine Brand 9703(sx)	1	20700	22.5	0.0	131.8	--	--	--	--
Stine Brand 9704(sx)	2	18100	22.6	0.0	130.8	--	--	--	--
Northrup King N7070(sx)	3	22000	27.2	0.0	126.8	--	--	--	--
Stine Brand 9702(spx)	2	17000	24.0	0.0	125.4	--	--	--	--
TRIAL AVERAGE		20849	26.1	0.4	154.6	208.3	179.5	181.4	180.8
L.S.D. AT .10 ¹		3222	1.8	NS	19.4	26.2	19.6		
C.V. %		11.3	5.1		9.2	7.7	6.7		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

NS Not significant.

TABLE 11. Performance of Corn Hybrids evaluated near Laddonia (Audrain County) on the Freyer Farms during 1993-95.

Planted: 12 June 1995
 Harvested: 21 October 1995
 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=200; P₂O₅=80; K₂O=80
 Herbicide: Bicept
 Insecticide: Lorsban
 Irrigation: 5.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: May=10.7, June=3.7, July=2.1, Aug.=3.8, Sept.=2.2 TOTAL=22.5"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Middlekoop 813(sx)	2	28000	15.0	0.0	181.4**	--	--	--	--
Lewis 5584(sx)	1	26700	16.8	2.4	180.2*	--	--	--	--
Stine Brand 9801(sx)	1	25800	19.4	1.2	178.6*	--	--	--	--
Ciba 4581(sx)	2	26300	18.5	10.6	176.7*	222.5*	151.5*	199.6	183.6
Pioneer Hybrid 3279(sx)	3	25400	18.7	3.9	176.2*	237.0*	--	206.6	--
Triumph 1522(sx)	1	27100	17.9	1.3	175.0*	--	--	--	--
Pioneer Hybrid 3335(sx)	4	27700	17.0	1.4	172.1*	--	--	--	--
Middlekoop 817(sx)	2	23300	21.1	1.2	171.6*	--	--	--	--
Northrup King N7070(sx)	3	26500	17.5	2.3	169.5*	--	--	--	--
Cargill 8327(sx)	4	26100	18.9	0.3	168.1*	236.1*	159.8*	202.1	188.0
Middlekoop 718(sx)	2	26200	22.6	4.3	167.8*	202.2	165.1*	185.0	178.4
Mycogen 7660(sx)	4	28100	18.7	15.8	167.8*	--	--	--	--
Merschman M-3115(sx)	1	25700	18.3	3.3	167.0*	227.6*	158.9*	197.3	184.5
Cargill X7507(sx)	4	27500	17.6	4.6	165.2*	--	--	--	--
Pioneer Hybrid 3163(sx)	4	25700	23.0	0.7	164.0*	225.7*	139.8	194.9	176.5
Dekalb DK626(sx)	2	22200	17.4	0.3	163.7*	--	--	--	--
AgriPro HS 9843(sx)	3	27800	20.0	3.3	162.8*	211.7	146.4*	187.3	173.6
Merschman M-3120(sx)	1	26600	20.0	1.8	162.7*	239.3*	147.1*	201.0	183.0
Patriot 6160(sx)	4	28000	19.2	5.2	160.9*	226.7*	--	193.8	--
Merschman M-5116(sx)	1	25000	19.8	3.4	159.8*	--	--	--	--
Golden Harvest H-2573(sx)	1	28800	15.8	1.4	159.7*	222.5*	--	191.1	--
Golden Harvest H-2622(sx)	2	28200	19.4	12.6	159.7*	219.9*	--	189.8	--
Lewis 6294(sx)	2	28300	20.1	4.7	158.7	225.2*	--	192.0	--
AgriPro AP 9707(sx)	3	26800	19.4	1.4	158.7	--	--	--	--
Cargill 7777(sx)	3	26500	20.0	5.0	158.2	215.0	--	186.6	--
MFA MX 5356(sx)	4	27400	16.5	1.8	158.0	--	--	--	--
Pioneer Hybrid 3394(sx)	3	24800	17.9	0.3	157.8	224.6*	161.8*	191.2	181.4
Lynks Seeds 2868(sx)	3	28300	20.4	6.2	157.8	232.8*	147.1*	195.3	179.2
Merschman M-5117(sx)	1	25600	19.4	4.7	157.2	--	--	--	--
Golden Harvest H-2581(sx)	1	27100	16.5	0.0	156.2	--	--	--	--
Middlekoop 815(sx)	2	26400	17.5	0.5	154.9	217.5	--	186.2	--
MFA 5823(sx)	4	26400	18.2	4.5	153.9	222.2*	160.5*	188.1	178.9
Cargill 7997(sx)	2	27000	17.7	2.6	153.7	206.3	162.0*	180.0	174.0
Patriot 7170(sx)	4	27600	19.7	2.1	153.7	223.3*	--	188.5	--
Pioneer Hybrid 3489(sx)	2	26000	17.7	0.6	153.3	211.8	--	182.6	--
Stine Brand 9704(sx)	2	26500	19.3	2.1	153.2	--	--	--	--
AgriPro HS 9848(sx)	3	26100	19.9	19.6	153.1	229.7*	148.8*	191.4	177.2
Pioneer Hybrid 3223(sx)	4	27000	18.2	9.6	152.0	--	--	--	--
Triumph 2010(sx)	2	29100	18.5	3.1	151.8	232.2*	145.0*	192.0	176.3
Stine Brand 9702(spx)	2	25700	17.1	1.9	151.6	--	--	--	--
Ciba 4575(sx)	2	24800	19.9	16.9	151.1	--	--	--	--
Merschman M-5115(sx)	1	26800	15.4	2.8	151.1	--	--	--	--
Freedom 5695(sx)	2	25200	20.9	6.3	148.3	--	--	--	--
Stine Brand 9703(sx)	1	25600	18.1	2.1	148.3	--	--	--	--
Asgrow RX770(sx)	1	27000	14.9	0.7	148.3	--	--	--	--
Lynks Seeds 2829(sx)	2	27200	19.5	9.6	147.7	236.7*	144.5*	192.2	176.3
Northrup King N6822(sx)	3	27500	13.8	0.4	147.6	222.3*	--	185.0	--
Middlekoop 514(sx)	2	27000	17.0	2.6	147.6	225.7*	138.4	186.6	170.6
MFA MX 4476(sx)	3	26900	16.5	2.5	147.0	--	--	--	--
Northrup King N7590(sx)	3	25700	15.6	0.6	146.8	--	--	--	--
Pioneer Hybrid 3245(sx)	3	26500	17.5	3.5	146.7	226.8*	149.4*	186.8	174.3
Middlekoop 814(sx)	2	25200	14.8	0.0	146.3	--	--	--	--
Merschman M-2121(sx)	1	27100	22.3	12.4	145.4	243.5**	138.8	194.5	175.9
Dekalb DK646(sx)	2	23900	19.6	1.1	145.4	233.2*	155.5*	189.3	178.0
Merschman M-5112(sx)	1	24200	16.6	2.0	145.3	--	--	--	--
Asgrow RX893(sx)	1	24500	17.7	0.2	144.7	--	--	--	--
Lewis 8492(sx)	3	27500	19.4	4.6	143.9	215.2	144.5*	179.6	167.9
Cargill 6997(sx)	4	27200	17.5	2.5	142.9	--	--	--	--

TABLE 11. Continued.

Brand-Hybrid	Mat- urity Group	Plants	Moisture	Lodging	Yield			Means	
		(#/Acre)	(%)	(%)	(Bu/Acre)	1994	1993	2 Yr.	3 Yr.
Northrup King N6330(sx)	2	26000	16.1	3.4	142.6	227.9*	137.9	185.3	169.5
Asgrow RX789(sx)	1	25300	19.8	2.5	141.7	--	--	--	--
ICF 8321(sx)	2	26200	17.3	2.9	141.1	--	--	--	--
Mycogen 8240(sx)	4	26200	20.8	5.0	140.6	228.9*	162.1*	184.8	177.2
Asgrow RX801(sx)	1	28400	17.5	4.1	139.4	233.3*	167.3*	186.4	180.0
Golden Harvest H-2548(sx)	1	26300	16.3	1.1	139.3	217.0	132.5	178.2	162.9
Lynks Seeds 2815(sx)	2	25500	17.1	1.9	139.2	--	--	--	--
Triumph 1452(sx)	1	26600	17.0	2.4	138.3	200.1	--	169.2	--
Merschman M-3117(sx)	1	27900	22.7	9.8	137.6	238.6*	155.5*	188.1	177.2
Pfister 3976(sx)	1	21100	17.9	0.0	136.8	--	--	--	--
Middlekoop 717(sx)	2	26900	14.6	1.9	136.3	216.6	140.5	176.5	164.5
Dairyland Stealth 1416(sx)	1	26700	20.1	1.5	133.2	--	--	--	--
Merschman M-5114(sx)	1	24700	19.8	5.1	131.7	--	--	--	--
Ciba 4450(sx)	1	26800	15.2	2.6	131.1	--	--	--	--
TRIAL AVERAGE		26385	18.3	3.7	153.9	218.6	144.0	186.2	172.2
L.S.D. AT .10 ¹		2432	2.5	5.6	22.0	23.7	24.1		
C.V. %		6.7	9.8		10.6	6.7	10.3		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 12. Performance record of Irrigated Corn Hybrids evaluated at two central Missouri locations (Columbia and Laddonia) during 1995.

Columbia
 Planted: 7 April 1995
 Harvested: 13 September 1995
 Growing Season Rainfall: 37.3 inches
 Irrigation: 6.0 inches

Laddonia
 Planted: 12 June 1995
 Harvested: 21 October 1995
 Growing Season Rainfall: 22.5 inches
 Irrigation: 5.00 inches

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Laddonia	Mean	Columbia	Laddonia	Mean
Middlekoop 817(sx)	2	0.5	1.2	0.8	185.1**	171.6*	178.4**
Middlekoop 718(sx)	2	0.0	4.3	2.2	181.6*	167.8*	174.7*
Lewis 6294(sx)	2	0.6	4.7	2.6	184.8*	158.7	171.8*
Pioneer Hybrid 3279(sx)	3	3.6	3.9	3.8	165.8*	176.2*	171.0*
Merschman M-3120(sx)	1	0.0	1.8	0.9	175.8*	162.7*	169.2*
Stine Brand 9801(sx)	1	0.0	1.2	0.6	157.7	178.6*	168.2*
Lewis 5584(sx)	1	1.1	2.4	1.8	154.4	180.2*	167.3*
Pioneer Hybrid 3163(sx)	4	0.5	0.7	0.6	169.8*	164.0*	166.9*
Lynks Seeds 2868(sx)	3	1.9	6.2	4.0	174.9*	157.8	166.4*
Middlekoop 813(sx)	2	0.6	0.0	0.3	148.5	181.4**	165.0*
Mycogen 7660(sx)	4	0.5	15.8	8.2	159.8	167.8*	163.8*
Merschman M-5117(sx)	1	0.5	4.7	2.6	167.8*	157.2	162.5
Pioneer Hybrid 3245(sx)	3	1.1	3.5	2.3	178.1*	146.7	162.4
Merschman M-5116(sx)	1	0.0	3.4	1.7	164.4	159.8*	162.1
Golden Harvest H-2622(sx)	2	0.0	12.6	6.3	164.3	159.7*	162.0
Pioneer Hybrid 3394(sx)	3	1.2	0.3	0.8	165.3	157.8	161.6
Triumph 2010(sx)	2	0.5	3.1	1.8	171.4*	151.8	161.6
Golden Harvest H-2581(sx)	1	0.5	0.0	0.2	165.5	156.2	160.8
AgriPro AP 9707(sx)	3	0.0	1.4	0.7	162.4	158.7	160.6
Pioneer Hybrid 3223(sx)	4	0.0	9.6	4.8	167.8*	152.0	159.9
Cargill 8327(sx)	4	0.5	0.3	0.4	151.3	168.1*	159.7
Ciba 4581(sx)	2	0.0	10.6	5.3	142.1	176.7*	159.4
Triumph 1522(sx)	1	0.0	1.3	0.6	143.2	175.0*	159.1
Middlekoop 514(sx)	2	1.0	2.6	1.8	170.5*	147.6	159.0
Golden Harvest H-2548(sx)	1	1.1	1.1	1.1	178.8*	139.3	159.0
AgriPro HS 9843(sx)	3	0.0	3.3	1.6	151.8	162.8*	157.3
Pioneer Hybrid 3335(sx)	4	0.0	1.4	0.7	142.3	172.1*	157.2
Cargill X7507(sx)	4	0.0	4.6	2.3	148.0	165.2*	156.6
Dekalb DK626(sx)	2	1.0	0.3	0.6	148.6	163.7*	156.2
Middlekoop 815(sx)	2	0.0	0.5	0.2	156.7	154.9	155.8
Merschman M-3115(sx)	1	0.0	3.3	1.6	144.2	167.0*	155.6
Patriot 7170(sx)	4	0.6	2.1	1.4	157.2	153.7	155.4
Patriot 6160(sx)	4	0.6	5.2	2.9	149.1	160.9*	155.0
Freedom 5695(sx)	2	0.0	6.3	3.2	160.9	148.3	154.6
Asgrow RX770(sx)	1	0.0	0.7	0.4	160.9	148.3	154.6
Asgrow RX801(sx)	1	0.6	4.1	2.4	168.8*	139.4	154.1
Asgrow RX789(sx)	1	0.6	2.5	1.6	166.5*	141.7	154.1
AgriPro HS 9848(sx)	3	0.0	19.6	9.8	154.5	153.1	153.8
Cargill 7997(sx)	2	0.0	2.6	1.3	152.4	153.7	153.0
Golden Harvest H-2573(sx)	1	0.0	1.4	0.7	144.3	159.7*	152.0
Lewis 8492(sx)	3	0.0	4.6	2.3	159.4	143.9	151.6
Northrup King N6330(sx)	2	0.7	3.4	2.0	160.0	142.6	151.3
Ciba 4575(sx)	2	0.0	16.9	8.4	148.8	151.1	150.0
Pioneer Hybrid 3489(sx)	2	0.0	0.6	0.3	146.7	153.3	150.0
MFA MX 5356(sx)	4	1.6	1.8	1.7	141.4	158.0	149.7
Pfister 3976(sx)	1	0.0	0.0	0.0	161.1	136.8	149.0
Merschman M-3117(sx)	1	0.0	9.8	4.9	160.2	137.6	148.9
Dekalb DK646(sx)	2	0.0	1.1	0.6	152.3	145.4	148.8
Lynks Seeds 2829(sx)	2	0.6	9.6	5.1	149.4	147.7	148.6
Cargill 7777(sx)	3	1.5	5.0	3.2	138.6	158.2	148.4
MFA 5823(sx)	4	0.0	4.5	2.2	142.7	153.9	148.3
Merschman M-5115(sx)	1	0.0	2.8	1.4	145.5	151.1	148.3
Northrup King N7070(sx)	3	0.0	2.3	1.2	126.8	169.5*	148.2
MFA MX 4476(sx)	3	0.6	2.5	1.6	149.3	147.0	148.2
Asgrow RX893(sx)	1	0.0	0.2	0.1	151.2	144.7	148.0
Dairyland Stealth 1416(sx)	1	0.6	1.5	1.0	160.6	133.2	146.9
Middlekoop 814(sx)	2	1.2	0.0	0.6	146.8	146.3	146.6
Northrup King N7590(sx)	3	0.5	0.6	0.6	146.0	146.8	146.4
Merschman M-2121(sx)	1	0.0	12.4	6.2	146.9	145.4	146.2
Triumph 1452(sx)	1	0.8	2.4	1.6	151.5	138.3	144.9

TABLE 12. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Columbia	Ladonia	Mean	Columbia	Ladonia	Mean
Lynks Seeds 2815(sx)	2	0.0	1.9	1.0	150.1	139.2	144.6
ICI 8321(sx)	2	0.5	2.9	1.7	147.8	141.1	144.4
Middlekoop 717(sx)	2	0.0	1.9	1.0	152.3	136.3	144.3
Merschman M-5112(sx)	1	0.6	2.0	1.3	142.4	145.3	143.8
Ciba 4450(sx)	1	0.0	2.6	1.3	155.0	131.1	143.0
Stine Brand 9704(sx)	2	0.0	2.1	1.0	130.8	153.2	142.0
Northrup King N6822(sx)	3	2.1	0.4	1.2	133.8	147.6	140.7
Merschman M-5114(sx)	1	0.0	5.1	2.6	149.4	131.7	140.6
Stine Brand 9703(sx)	1	0.0	2.1	1.0	131.8	148.3	140.0
Cargill 6997(sx)	4	0.5	2.5	1.5	135.5	142.9	139.2
Stine Brand 9702(spx)	2	0.0	1.9	1.0	125.4	151.6	138.5
Mycogen 8240(sx)	4	0.0	5.0	2.5	134.7	140.6	137.6
TRIAL AVERAGE		0.4	3.7	2.1	154.6	153.9	154.2
L.S.D. AT .10		NS	5.6	3.0	19.4	22.0	14.6
C.V. %					9.2	10.6	9.9

** Highest yielding hybrid in the test.

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

NS Not significant.

TABLE 13. Performance of Irrigated Corn Hybrids evaluated near Garden City (Cass County) on the Richard Schrock Farm during 1994-95 and near Nevada (Vernon County) on the Robert Cabbage Farm during 1993.

Planted: 14 April 1995
 Harvested: 25 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=6.2, OM=3.0%, P=99, K=353
 Fertilizer: N=185; P₂O₅=60; K₂O=120
 Herbicide: Bullet + Bladex
 Insecticide: Lorsban
 Irrigation: 5.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=5.4, May=13.6, June=7.8, July=4.3, Aug.=3.6, TOTAL=34.7"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Golden Harvest H-2641(sx)	2	26300	19.6	1.4	165.3**	178.9*	74.8	172.1	139.7
Cargill 8327(sx)	4	23900	19.6	0.5	157.2*	169.6	99.7	163.4	142.2
Terra TR1185(sx)	3	19500	21.3	2.8	155.6*	180.9*	--	168.3	--
Terra TR702E(sx)	4	23800	22.3	1.1	153.5*	--	120.5*	--	--
Terra TR1154(sx)	2	21800	19.7	1.0	153.5*	--	--	--	--
Lewis 6294(sx)	2	19000	19.2	1.3	152.4*	--	--	--	--
Dekalb DK715(sx)	3	22700	20.6	2.1	151.8*	166.8	101.7	159.3	140.1
Stine Brand 9801(sx)	1	23500	19.2	1.6	150.2*	--	--	--	--
Triumph 1452(sx)	1	20400	19.0	0.6	147.2*	167.8	--	157.5	--
NC+ 5037(sx)	2	19500	19.4	2.9	146.8	176.8*	87.1	161.8	136.9
Cargill 7997(sx)	2	22200	19.3	1.0	146.1	174.3*	125.0*	160.2	148.5
Mycogen 8460(sx)	4	18900	22.3	1.4	144.4	--	--	--	--
NC+ 6959(sx)	2	20900	20.9	3.4	144.0	176.1*	--	160.1	--
Pioneer Hybrid 3223(sx)	4	19400	19.8	1.8	143.4	--	--	--	--
Golden Harvest H-2581(sx)	1	18300	19.2	3.0	143.4	--	--	--	--
Dekalb DK646(sx)	2	20000	17.7	1.3	142.1	165.7	118.7*	153.9	142.2
Ciba 4581(sx)	2	19000	20.3	0.0	141.5	--	96.6	--	--
Northrup King N7590(sx)	3	21000	18.7	1.3	141.4	--	--	--	--
MFA MX 4476(sx)	3	19500	19.3	3.1	141.1	--	--	--	--
Lynks Seeds 2868(sx)	3	22100	21.2	0.0	141.0	164.8	99.4	152.9	135.1
MFA 5823(sx)	4	20200	20.0	0.6	140.5	166.6	108.1*	153.6	138.4
Terra TR1167(sx)	3	23600	19.9	5.2	140.4	173.3*	94.1	156.9	135.9
Cargill 7777(sx)	3	23300	19.5	3.2	140.0	172.7*	--	156.4	--
Lynks Seeds 2815(sx)	2	22800	18.7	0.5	139.4	--	--	--	--
Merschman M-5116(sx)	1	21400	17.2	0.4	138.6	--	--	--	--
Pioneer Hybrid 3163(sx)	4	16900	23.5	2.8	137.5	193.3**	119.8*	165.4	150.2
Patriot 66168(sx)	4	22400	18.6	2.5	136.7	--	--	--	--
Pioneer Hybrid 3245(sx)	3	26900	18.3	6.0	135.7	171.9*	84.1	153.8	130.6
Lynks Seeds 2829(sx)	2	17400	21.1	1.5	135.6	159.9	109.2*	147.8	134.9
Pioneer Hybrid 3279(sx)	3	20600	18.2	6.5	135.2	190.0*	--	162.6	--
Merschman M-3120(sx)	1	21300	20.1	2.9	135.0	164.7	--	149.9	--
Merschman M-3117(sx)	1	23400	21.0	1.4	134.3	170.9	--	152.6	--
Dekalb DK626(sx)	2	21700	18.4	2.1	132.3	--	--	--	--
Patriot 67192(sx)	4	18500	20.5	1.1	130.9	--	--	--	--
Pioneer Hybrid 3394(sx)	3	22700	16.5	4.2	128.1	171.3	115.9*	149.7	138.4
Pioneer Hybrid 3335(sx)	4	18000	18.7	3.3	126.5	--	--	--	--
MFA MX 5356(sx)	4	23700	17.8	0.0	126.2	--	--	--	--
Triumph 2010(sx)	2	22700	21.0	2.1	125.9	174.5*	92.3	150.2	130.9
Triumph 1522(sx)	1	19200	19.5	7.2	125.6	--	--	--	--
Stine Brand 9703(sx)	1	22300	17.8	3.6	125.1	--	--	--	--
Pioneer Hybrid 3489(sx)	2	21600	16.9	7.5	124.0	182.1*	--	153.1	--
Northrup King N6822(sx)	3	20400	17.1	5.6	123.9	--	--	--	--
MFA 6724(sx)	4	22600	18.6	7.9	123.8	187.5*	--	155.7	--
Northrup King N7070(sx)	3	22400	18.2	3.1	123.4	--	--	--	--
Golden Harvest H-2547(sx)	1	25000	17.6	2.4	123.3	--	--	--	--
Ciba 4575(sx)	2	17400	19.5	0.6	123.1	--	--	--	--
Ciba 4450(sx)	1	20500	17.4	3.1	122.7	--	--	--	--
Stine Brand 9702(spx)	2	17000	18.2	0.0	118.9	--	--	--	--
Stine Brand 9704(sx)	2	22100	17.2	1.4	117.3	--	--	--	--
Cargill 6997(sx)	4	22300	17.9	1.5	116.4	--	--	--	--
TRIAL AVERAGE		21240	19.3	2.4	137.0	169.2	104.3	153.1	136.8
L.S.D. AT .10 ¹		4425	1.4	3.9	18.3	21.7	25.0		
C.V. %		15.1	5.2		9.8	7.9	14.6		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 14. Performance of Irrigated Corn Hybrids evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1993-95.

Planted: 5 April 1995
 Harvested: 18 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.7, OM=2.0%, P=110, K=250

Fertilizer: N=215; P₂O₅=36; K₂O=75
 Herbicide: Bullet + Bladex
 Insecticide: Lorsban
 Irrigation: 3.5 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=6.5, May=13.4, June=11.6, July=1.1, Aug.=3.0, TOTAL=35.6"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Pioneer Hybrid 3163(sx)	4	23100	21.4	0.5	174.8**	158.5*	123.8*	166.7	152.4
Golden Harvest H-2581(sx)	1	24200	19.6	1.0	169.2*	--	--	--	--
Lewis 6294(sx)	2	23500	21.5	0.4	166.3*	--	--	--	--
Lynks Seeds 2815(sx)	2	24700	20.3	0.0	166.0*	--	--	--	--
Dekalb DK626(sx)	2	22900	19.7	0.5	162.6*	--	--	--	--
MFA MX 4476(sx)	3	22500	20.3	0.8	161.9*	--	--	--	--
Pioneer Hybrid 3279(sx)	3	23600	20.0	0.1	161.1*	154.6*	--	157.9	--
Pioneer Hybrid 3394(sx)	3	20200	18.0	0.0	159.6*	157.5*	139.5**	158.6	152.2
Pioneer Hybrid 3223(sx)	4	19600	22.0	0.0	158.3*	--	--	--	--
NC+ 5037(sx)	2	23400	20.2	0.1	158.1*	149.9*	87.0	154.0	131.7
Terra TR1185(sx)	3	20300	23.1	0.0	157.9*	171.7**	--	164.8	--
Merschman M-3120(sx)	1	22300	23.4	0.0	157.1*	163.9*	--	160.5	--
MFA 6724(sx)	4	23000	21.2	0.6	156.4*	159.1*	--	157.8	--
Terra TR1154(sx)	2	21900	20.6	0.0	156.2*	--	--	--	--
NC+ 6959(sx)	2	23400	21.4	1.3	156.2*	144.3*	--	150.3	--
Golden Harvest H-2641(sx)	2	26100	22.7	0.0	156.2*	159.0*	105.6	157.6	140.3
Lynks Seeds 2868(sx)	3	25200	22.4	0.0	155.7*	167.2*	89.5	161.5	137.5
Lynks Seeds 2829(sx)	2	18300	22.1	0.8	154.3	125.3	87.0	139.8	122.2
Cargill 7997(sx)	2	22900	20.3	0.0	154.2	126.4	106.4	140.3	129.0
MFA 5823(sx)	4	21200	21.1	0.0	153.8	163.6*	94.0	158.7	137.1
Mycogen 8460(sx)	4	25200	24.0	0.6	153.5	--	--	--	--
Dekalb DK715(sx)	3	20100	22.6	0.1	153.2	165.8*	116.1	159.5	145.0
Merschman M-5116(sx)	1	20800	20.2	0.6	152.6	--	--	--	--
Pioneer Hybrid 3245(sx)	3	21900	18.2	1.0	151.9	151.5*	96.7	151.7	133.4
Dekalb DK646(sx)	2	20800	19.2	0.1	151.3	166.1*	103.9	158.7	140.4
Stine Brand 9801(sx)	1	22900	21.0	0.6	150.6	--	--	--	--
Northrup King N6822(sx)	3	20900	18.8	0.1	148.7	--	--	--	--
Cargill 6997(sx)	4	22100	19.5	0.0	147.6	--	--	--	--
Cargill 7777(sx)	3	24600	19.9	0.0	147.4	165.0*	--	156.2	--
Terra TR1167(sx)	3	22300	21.7	0.0	146.0	130.5	105.8	138.3	127.4
Merschman M-3117(sx)	1	23600	22.1	0.0	146.0	144.4*	--	145.2	--
Northrup King N7590(sx)	3	21900	21.5	0.0	145.8	--	--	--	--
Cargill 8327(sx)	4	22600	21.9	0.5	145.2	161.4*	101.1	153.3	135.9
Terra TR702E(sx)	4	23200	24.6	0.0	145.0	--	91.1	--	--
Patriot 67192(sx)	4	22000	22.1	0.0	144.6	--	--	--	--
MFA MX 5356(sx)	4	20900	18.8	0.1	142.3	--	--	--	--
Stine Brand 9702(spx)	2	22100	19.3	0.1	141.3	--	--	--	--
Stine Brand 9703(sx)	1	20400	18.4	0.0	140.9	--	--	--	--
Northrup King N7070(sx)	3	23400	20.5	0.6	140.6	--	--	--	--
Stine Brand 9704(sx)	2	22300	17.7	0.0	139.1	--	--	--	--
Ciba 4581(sx)	2	20400	21.7	0.7	136.8	--	91.2	--	--
Patriot 66168(sx)	4	19000	21.3	0.0	136.0	--	--	--	--
Triumph 1522(sx)	1	17400	19.7	0.1	134.8	--	--	--	--
Pioneer Hybrid 3489(sx)	2	18500	18.8	0.0	132.3	117.9	--	125.1	--
Triumph I452(sx)	1	18800	20.6	0.1	131.8	158.4*	--	145.1	--
Triumph 2010(sx)	2	21400	22.0	0.7	131.5	152.9*	82.2	142.2	122.2
Pioneer Hybrid 3335(sx)	4	20800	19.5	0.0	129.6	--	--	--	--
Golden Harvest H-2547(sx)	1	21800	20.8	1.2	129.6	--	--	--	--
Ciba 4575(sx)	2	17800	19.9	0.1	129.3	--	--	--	--
Ciba 4450(sx)	1	19600	20.5	0.0	127.9	--	--	--	--
TRIAL AVERAGE		21836	20.8	0.3	149.0	140.5	102.6	144.8	130.7
L.S.D. AT .10 ¹		3729	1.5	0.7	19.7	33.4	20.7		
C.V. %		12.6	5.2		9.7	14.6	12.2		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 15. Performance record of Irrigated Corn Hybrids evaluated at two southwestern Missouri locations (Garden City and Lamar) during 1995.

Garden City
 Planted: 14 April 1995
 Harvested: 25 September 1995
 Growing Season Rainfall: 34.7 inches
 Irrigation: 4.5 inches

Lamar
 Planted: 5 April 1995
 Harvested: 18 September 1995
 Growing Season Rainfall: 35.6 inches
 Irrigation: 3.5 inches

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Gdn Cty	Lamar	Mean	Gdn Cty	Lamar	Mean
Golden Harvest H-2641(sx)	2	1.4	0.0	0.7	165.3**	156.2*	160.8**
Lewis 6294(sx)	2	1.3	0.4	0.8	152.4*	166.3*	159.4*
Terra TR1185(sx)	3	2.8	0.0	1.4	155.6*	157.9*	156.8*
Golden Harvest H-2581(sx)	1	3.0	1.0	2.0	143.4	169.2*	156.3*
Pioneer Hybrid 3163(sx)	4	2.8	0.5	1.6	137.5	174.8**	156.2*
Terra TR1154(sx)	2	1.0	0.0	0.5	153.5*	156.2*	154.8*
Lynks Seeds 2815(sx)	2	0.5	0.0	0.2	139.4	166.0*	152.7*
Dekalb DK715(sx)	3	2.1	0.1	1.1	151.8*	153.2	152.5*
NC+ 5037(sx)	2	2.9	0.1	1.5	146.8	158.1*	152.4*
MFA MX 4476(sx)	3	3.1	0.8	2.0	141.1	161.9*	151.5*
Cargill 8327(sx)	4	0.5	0.5	0.5	157.2*	145.2	151.2*
Pioneer Hybrid 3223(sx)	4	1.8	0.0	0.9	143.4	158.3*	150.8*
Stine Brand 9801(sx)	1	1.6	0.6	1.1	150.2*	150.6	150.4*
Cargill 7997(sx)	2	1.0	0.0	0.5	146.1	154.2	150.2*
NC+ 6959(sx)	2	3.4	1.3	2.4	144.0	156.2*	150.1*
Terra TR702E(sx)	4	1.1	0.0	0.6	153.5*	145.0	149.2*
Mycogen 8460(sx)	4	1.4	0.6	1.0	144.4	153.5	149.0*
Lynks Seeds 2868(sx)	3	0.0	0.0	0.0	141.0	155.7*	148.4*
Pioneer Hybrid 3279(sx)	3	6.5	0.1	3.3	135.2	161.1*	148.2*
Dekalb DK626(sx)	2	2.1	0.5	1.3	132.3	162.6*	147.4
MFA 5823(sx)	4	0.6	0.0	0.3	140.5	153.8	147.2
Dekalb DK646(sx)	2	1.3	0.1	0.7	142.1	151.3	146.7
Merschman M-3120(sx)	1	2.9	0.0	1.4	135.0	157.1*	146.0
Merschman M-5116(sx)	1	0.4	0.6	0.5	138.6	152.6	145.6
Lynks Seeds 2829(sx)	2	1.5	0.8	1.2	135.6	154.3	145.0
Pioneer Hybrid 3394(sx)	3	4.2	0.0	2.1	128.1	159.6*	143.8
Pioneer Hybrid 3245(sx)	3	6.0	1.0	3.5	135.7	151.9	143.8
Cargill 7777(sx)	3	3.2	0.0	1.6	140.0	147.4	143.7
Northrup King N7590(sx)	3	1.3	0.0	0.6	141.4	145.8	143.6
Terra TR1167(sx)	3	5.2	0.0	2.6	140.4	146.0	143.2
Merschman M-3117(sx)	1	1.4	0.0	0.7	134.3	146.0	140.2
MFA 6724(sx)	4	7.9	0.6	4.2	123.8	156.4*	140.1
Triumph 1452(sx)	1	0.6	0.1	0.4	147.2*	131.8	139.5
Ciba 4581(sx)	2	0.0	0.7	0.4	141.5	136.8	139.2
Patriot 67192(sx)	4	1.1	0.0	0.6	130.9	144.6	137.8
Patriot 66168(sx)	4	2.5	0.0	1.2	136.7	136.0	136.4
Northrup King N6822(sx)	3	5.6	0.1	2.8	123.9	148.7	136.3
MFA MX 5356(sx)	4	0.0	0.1	0.0	126.2	142.3	134.2
Stine Brand 9703(sx)	1	3.6	0.0	1.8	125.1	140.9	133.0
Cargill 6997(sx)	4	1.5	0.0	0.8	116.4	147.6	132.0
Northrup King N7070(sx)	3	3.1	0.6	1.8	123.4	140.6	132.0
Triumph 1522(sx)	1	7.2	0.1	3.6	125.6	134.8	130.2
Stine Brand 9702(spx)	2	0.0	0.1	0.0	118.9	141.3	130.1
Triumph 2010(sx)	2	2.1	0.7	1.4	125.9	131.5	128.7
Pioneer Hybrid 3489(sx)	2	7.5	0.0	3.8	124.0	132.3	128.2
Stine Brand 9704(sx)	2	1.4	0.0	0.7	117.3	139.1	128.2
Pioneer Hybrid 3335(sx)	4	3.3	0.0	1.6	126.5	129.6	128.0
Golden Harvest H-2547(sx)	1	2.4	1.2	1.8	123.3	129.6	126.4
Ciba 4575(sx)	2	0.6	0.1	0.4	123.1	129.3	126.2
Ciba 4450(sx)	1	3.1	0.0	1.6	122.7	127.9	125.3
TRIAL AVERAGE		2.4	0.3	1.4	137.0	149.0	143.0
L.S.D. AT .10		3.9	0.7	1.9	18.3	19.7	13.3
C.V. %					9.8	9.7	9.8

** Highest yielding hybrid in the test.

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

TABLE 16. Performance of Irrigated Corn Hybrids evaluated near Oran (Scott County) on the Glenn Nothdurft Farm during 1993-95.

Planted: 31 March 1995
 Harvested: 6 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Commerce Silt Loam
 Soil Test: pH=6.6, OM=1.6%, P=84, K=247
 Fertilizer: N=210; P₂O₅=70; K₂O=90
 Herbicide: Bullet
 Insecticide: Lorsban
 Irrigation: 3.0 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=3.7, May=7.4, June=4.5, July=4.3, Aug.=2.2, TOTAL=22.1"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1995	1994	1993	2 Yr.
Pioneer Hybrid 3335(sx)	2	24200	16.0	4.8	229.5**	--	--	--	--
Crow's 668(sx)	2	28100	17.1	20.0	228.2*	229.6*	158.1	228.9	205.3
Pioneer Hybrid 3245(sx)	2	25500	16.0	2.3	218.9*	214.4	205.1**	216.7	212.8
Cargill 7777(sx)	3	25200	16.8	22.5	211.6*	218.7*	--	215.2	--
Crow's 685(sx)	2	28000	18.4	22.2	211.5*	--	--	--	--
Pioneer Hybrid X1194F(sx)	2	25300	18.0	5.9	206.3*	--	--	--	--
AgraTech 709(sx)	2	26300	14.8	12.0	204.7*	--	--	--	--
ICI 8285(sx)	2	27400	15.4	1.9	203.0*	--	--	--	--
Cargill 7997(sx)	2	26100	16.2	18.7	200.5	220.3*	185.3*	210.4	202.0
NC+ 6959(sx)	2	24400	16.5	2.2	197.7	--	--	--	--
HyPerformer HS 9843(sx)	3	23800	16.8	7.5	196.8	198.6	178.3*	197.7	191.2
Deltapine 4494(sx)	1	26800	14.8	4.6	196.5	--	--	--	--
Dekalb DK668(sx)	2	27200	17.4	4.3	196.1	228.9*	--	212.5	--
Pioneer Hybrid 3156(sx)	2	24700	17.3	35.3	195.4	228.6*	187.8*	212.0	203.9
Northrup King N7590(sx)	3	25000	15.9	16.6	195.3	--	--	--	--
Patriot 67192(sx)	4	25000	17.6	39.2	194.9	--	--	--	--
Pioneer Hybrid 3394(sx)	2	22400	14.1	11.0	194.7	201.8	175.6*	198.3	190.7
Terra TR702E(sx)	4	26900	17.9	13.7	194.5	--	166.4	--	--
Golden Harvest H-2581(sx)	1	26200	15.3	31.4	193.9	--	--	--	--
Northrup King N8020(sx)	4	25400	17.7	4.4	191.4	218.6*	--	205.0	--
Cargill X7507(sx)	4	23700	18.6	8.5	191.0	--	--	--	--
Pioneer Hybrid X1134N(sx)	2	25400	16.7	23.5	190.7	--	--	--	--
Patriot EX12015(sx)	4	25100	18.1	7.0	190.0	--	--	--	--
Pioneer Hybrid 3203W(sx)	2	27400	17.4	25.8	189.8	--	--	--	--
Terra TR1185(sx)	3	27200	18.2	35.6	189.6	251.4*	--	220.5	--
Golden Harvest H-2641(sx)	2	27000	17.7	4.7	189.3	235.9*	--	212.6	--
Pioneer Hybrid 3163(sx)	2	26100	18.2	49.8	189.2	252.0**	196.6*	220.6	212.6
MFA 6724(sx)	4	26800	15.9	47.8	188.6	234.7*	--	211.7	--
Dekalb DK580(sx)	2	23300	15.2	13.2	188.3	--	--	--	--
Terral TV2543(sx)	2	24600	18.0	5.0	188.3	--	--	--	--
Cargill 8327(sx)	4	25100	16.8	9.0	187.5	213.3	180.2*	200.4	193.7
Pioneer Hybrid 3279(sx)	2	26700	15.3	4.1	186.9	220.9*	184.3*	203.9	197.4
Northrup King N6330(sx)	2	26500	16.6	7.3	186.7	214.1	179.0*	200.4	193.3
HyPerformer HS 9919(sx)	4	25300	18.5	12.3	186.7	--	--	--	--
HyPerformer HYX-57103(sx)	2	26500	14.8	16.8	186.0	--	--	--	--
Terral TV2930(sx)	2	25300	17.4	21.0	185.6	229.6*	--	207.6	--
Mycogen 8240(sx)	4	26200	18.2	12.6	185.2	235.7*	148.9	210.5	189.9
Triumph 2010(sx)	2	25800	17.6	6.1	185.2	200.0	185.6*	192.6	190.3
Terral TV2642(sx)	2	25700	18.5	5.5	184.9	--	--	--	--
Pioneer Hybrid 3223(sx)	2	25700	16.2	7.0	184.9	241.8*	--	213.4	--
Patriot 66158(sx)	4	24400	15.1	7.4	183.8	--	--	--	--
Triumph 1522(sx)	1	24500	16.3	22.5	183.7	--	--	--	--
Terra TR1167(sx)	3	26800	16.8	8.8	183.7	225.2*	176.8*	204.5	195.2
HyPerformer HYX-57101(sx)	4	25000	18.9	27.0	182.2	--	--	--	--
Pioneer Hybrid 3140(sx)	2	24300	18.0	11.8	182.0	226.9*	175.4*	204.5	194.8
HyPerformer HS 9905(sx)	4	25700	17.2	2.5	181.8	216.4	165.9	199.1	188.0
HyPerformer HS 9502(sx)	1	24600	15.2	5.4	181.1	224.3*	174.4	202.7	193.3
Dekalb DK626(sx)	2	23800	14.5	1.3	180.7	--	--	--	--
Vineyard Seed V 453W#	3	23100	17.0	37.4	180.5	--	--	--	--
Vineyard Seed V 449W#	3	23600	17.3	33.2	180.3	--	--	--	--
Pioneer Hybrid X1184M(sx)	2	26000	16.1	43.4	179.1	--	--	--	--
Dyna-Gro 5510(sx)	1	24100	16.7	13.2	178.6	220.8*	182.0*	199.7	193.8
Deltapine 4581(sx)	1	27700	16.9	6.5	178.4	239.3*	148.8	208.9	188.8
Deltapine 4653(sx)	2	25400	16.5	17.0	177.0	223.0*	--	200.0	--
Patriot 66168(sx)	4	27200	15.8	2.7	176.9	--	--	--	--
MFA MX 5356(sx)	4	25300	15.3	2.3	176.9	--	--	--	--
Lynks Seeds 2815(sx)	2	24400	16.0	5.4	176.7	--	--	--	--
Dyna-Gro 5516(sx)	2	27800	17.4	2.8	175.9	220.6*	--	198.3	--

TABLE 16. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)		Means		
					1994	1993	2 Yr.	3 Yr.	
MFA 5823(sx)	4	24500	16.8	27.0	175.4	240.4*	182.6*	207.9	199.5
Patriot 2330(sx)	4	25000	17.9	36.7	175.1	--	--	--	--
Vineyard Seed V 448W#	3	25300	16.3	29.6	173.7	--	--	--	--
Pioneer Hybrid X1134T(sx)	2	22500	17.3	11.8	173.3	--	--	--	--
Lynks Seeds 2829(sx)	2	21700	16.8	20.2	172.0	236.2*	185.5*	204.1	197.9
Lynks Seeds 2868(sx)	3	26100	17.8	3.0	171.8	220.8*	194.3*	196.3	195.6
AgraTech 787(sx)	2	24000	18.0	7.8	171.6	229.3*	164.3	200.5	188.4
Mycogen 8460(sx)	4	27900	18.3	33.1	170.5	--	--	--	--
Cargill 6997(sx)	4	23100	16.2	31.1	170.2	--	--	--	--
Terra TR1130(sx)	2	26500	16.9	23.3	169.5	--	--	--	--
HyPerformer HYX-58104(sx)	3	23700	17.3	3.2	169.1	--	--	--	--
Delta Genetics DG 175(sx)	3	22300	14.9	11.9	169.0	236.7*	--	202.9	--
NC+ 7117(sx)	2	23500	15.8	25.4	168.9	227.9*	--	198.4	--
HyPerformer HS 9822(sx)	3	24600	17.6	4.7	168.4	249.5*	193.8*	209.0	203.9
Northrup King N7707(sx)	3	25200	17.4	27.6	168.1	--	154.7	--	--
HyPerformer HS 9899V(sx)	4	26500	16.1	28.2	168.0	--	--	--	--
AgraTech 757(sx)	2	24000	17.1	5.9	167.9	240.3*	165.5	204.1	191.2
MFA MX 4476(sx)	3	26200	15.7	38.3	166.7	--	--	--	--
Dekalb DK683(sx)	2	26400	17.3	22.6	165.4	218.8*	173.8	192.1	186.0
HyPerformer AP 9707(sx)	3	27000	16.9	11.8	165.0	--	--	--	--
Delta Genetics DG 192(sx)	3	21400	16.8	16.7	164.8	217.5	180.2*	191.2	187.5
Vineyard Seed V 58W#	3	24400	18.5	51.7	164.3	--	--	--	--
Genetic Resource/GRI494(sx)	2	21900	17.9	12.7	164.1	--	--	--	--
Crow's 510(sx)	1	26000	16.0	8.6	162.8	224.1*	166.5	193.5	184.5
Pfister 3976(sx)	1	23800	17.4	14.3	162.1	--	--	--	--
Delta Genetics DG 195(sx)	3	24800	19.0	71.3	161.6	221.3*	159.1	191.5	180.7
NC+ 7507(sx)	2	27400	16.3	13.0	161.5	--	--	--	--
Triumph 1452(sx)	1	27000	16.0	2.3	160.2	201.5	--	180.9	--
Crow's 490(sx)	1	25300	17.4	13.5	159.1	--	--	--	--
AgraTech 654(sx)	2	23400	15.8	30.0	152.6	--	--	--	--
Dyna-Gro 5625(sx)	3	26100	18.8	19.2	143.2	--	--	--	--
TRIAL AVERAGE		25287	16.8	17.0	182.1	220.3	171.5	201.2	191.3
L.S.D. AT .10 ¹		2651	2.0	26.9	27.8	34.1	30.3		
C.V. %		7.7	8.6		11.2	9.5	10.7		

¹ LSD for previous years calculated at p = 0.05.

White corn hybrid.

-- Data not available.

** Highest yielding hybrid in the test.

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

TABLE 17. Performance of Irrigated Corn Hybrids evaluated near New Madrid (New Madrid County) on the Craig Hunter Farm during 1993-95.

Planted: 30 March 1995
 Harvested: 6 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Bosket Fine Sandy Loam
 Soil Test: pH=6.1, OM=1.4%, P=72, K=377

Fertilizer: N=200; P₂O₅=30; K₂O=60
 Herbicide: Bullet + Bladex
 Insecticide: Lorsban
 Irrigation: 2.00 inches
 Previous Crop: Cotton

Growing Season Rainfall: Apr.=7.4, May=2.3, June=5.6, July=5.5, Aug.=2.1, TOTAL=22.9"

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1995	1994	1993	2 Yr.
Pioneer Hybrid X1134N(sx)	2	21900	4.6	3.3	218.4**	--	--	--	--
Crow's 685(sx)	2	22200	14.4	4.2	217.2*	--	--	--	--
HyPerformer HYX-57103(sx)	2	26000	15.0	5.4	215.6*	--	--	--	--
Terra TR1185(sx)	3	26900	16.1	8.3	212.4*	208.9*	--	210.7	--
Dekalb DK668(sx)	2	26900	14.6	0.4	208.9*	205.3*	--	207.1	--
Pioneer Hybrid 3163(sx)	2	26100	16.4	2.2	205.8*	189.1	172.2*	197.5	189.0
Pioneer Hybrid 3223(sx)	2	26400	14.9	2.3	203.8*	209.4*	--	206.6	--
Pioneer Hybrid 3140(sx)	2	25900	15.1	2.9	203.7*	210.9*	166.9*	207.3	193.8
Terra TR1167(sx)	3	24600	14.9	6.7	201.6*	201.2*	176.9*	201.4	193.2
Vineyard Seed V 449W#	3	25200	15.7	1.4	201.3*	--	--	--	--
Golden Harvest H-2641(sx)	2	25000	14.6	1.8	200.9*	199.2*	--	200.1	--
Crow's 490(sx)	1	24400	15.0	4.0	200.5*	--	--	--	--
Terral TV2930(sx)	2	22300	15.5	3.3	200.1*	204.0*	--	202.1	--
Pioneer Hybrid 3335(sx)	2	27700	14.4	1.3	198.7*	--	--	--	--
Pioneer Hybrid X1194F(sx)	2	27900	15.0	0.8	198.5*	--	--	--	--
NC+ 6959(sx)	2	25100	14.8	0.9	198.0*	--	--	--	--
Genetic Resource/GRI494(sx)	2	23300	15.9	1.6	197.6*	--	--	--	--
Mycogen 8460(sx)	4	24500	15.7	2.4	196.5*	--	--	--	--
Golden Harvest H-2581(sx)	1	26000	14.0	0.0	194.1*	--	--	--	--
Patriot EX12015(sx)	4	25700	16.7	4.3	193.6*	--	--	--	--
HyPerformer HS 9899V(sx)	4	26300	15.9	10.9	193.4*	--	--	--	--
Lynks Seeds 2868(sx)	3	25600	14.7	1.8	193.3*	219.8*	192.9*	206.6	202.0
Cargill 7997(sx)	2	26000	14.9	1.7	192.3	194.7*	167.2*	193.5	184.7
Deltapine 4653(sx)	2	24900	15.1	1.4	190.7	197.6*	--	194.1	--
Cargill 7777(sx)	3	26500	13.8	2.6	190.2	201.1*	--	195.6	--
HyPerformer HS 9843(sx)	3	27900	15.1	1.3	190.0	194.6*	182.9*	192.3	189.2
Pioneer Hybrid 3394(sx)	2	26500	13.0	3.1	189.6	176.5	176.9*	183.1	181.0
Terra TR1130(sx)	2	27300	15.1	0.4	188.9	--	--	--	--
Lynks Seeds 2815(sx)	2	23800	15.0	0.0	188.9	--	--	--	--
Pioneer Hybrid 3203W(sx)	2	22700	14.8	2.1	188.1	--	--	--	--
Terra TR702E(sx)	4	24100	15.1	3.3	188.0	--	171.2*	--	--
NC+ 7117(sx)	2	25500	14.5	1.3	186.5	189.1	--	187.8	--
Pioneer Hybrid X1184M(sx)	2	25300	14.7	4.7	186.1	--	--	--	--
Delta Genetics DG 195(sx)	3	22700	14.9	1.6	186.1	198.9*	158.3	192.5	181.1
Dekalb DK626(sx)	2	21700	14.2	2.6	185.7	--	--	--	--
Dyna-Gro 5516(sx)	2	25400	13.9	3.1	185.5	192.1	--	188.8	--
AgraTech 709(sx)	2	24300	15.4	3.4	184.6	--	--	--	--
Crow's 668(sx)	2	24000	15.4	1.1	184.0	188.0	174.9*	186.0	182.3
Cargill 8327(sx)	4	22800	14.1	0.0	183.6	193.8*	182.6*	188.7	186.7
HyPerformer HS 9905(sx)	4	28400	14.8	2.9	182.8	190.1	182.4*	186.5	185.1
HyPerformer AP 9707(sx)	3	24700	14.3	3.0	181.7	--	--	--	--
Patriot 66158(sx)	4	25600	15.0	0.8	181.4	--	--	--	--
Cargill X7507(sx)	4	21300	14.3	0.5	181.2	--	--	--	--
Deltapine 4581(sx)	1	26800	14.3	6.3	181.1	207.9*	169.8*	194.5	186.3
HyPerformer HYX-57101(sx)	4	26000	15.8	3.9	181.1	--	--	--	--
HyPerformer HS 9919(sx)	4	23300	16.1	2.0	180.6	--	--	--	--
Pioneer Hybrid X1134T(sx)	2	21400	15.7	3.2	180.6	--	--	--	--
Dekalb DK683(sx)	2	24800	15.4	3.1	180.2	199.3*	175.0*	189.8	184.8
HyPerformer HS 9822(sx)	3	24700	13.2	9.6	180.2	192.3	166.6*	186.3	179.7
Northrup King N8020(sx)	4	25900	15.1	2.2	180.2	206.7*	--	193.5	--
Terral TV2642(sx)	2	25300	14.9	1.6	179.7	--	--	--	--
Lynks Seeds 2829(sx)	2	26900	15.8	1.8	179.6	202.5*	177.8*	191.1	186.6
Vineyard Seed V 453W#	3	24400	15.2	5.0	179.5	--	--	--	--
Triumph 2010(sx)	2	21600	14.6	1.2	179.0	192.3	179.4*	185.7	183.6
Triumph 1522(sx)	1	23800	14.9	8.3	178.9	--	--	--	--
Patriot 67192(sx)	4	25800	16.0	2.2	178.8	--	--	--	--
Pioneer Hybrid 3156(sx)	2	27600	15.9	2.1	177.5	185.7	158.4	181.6	173.9
Northrup King N7590(sx)	3	23700	14.3	3.0	177.4	--	--	--	--

TABLE 17. Continued.

Brand-Hybrid	Mat- urity Group	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
					1995	1994	1993	2 Yr.	3 Yr.
Crow's 510(sx)	1	23700	14.2	1.5	177.1	205.1*	165.4	191.1	182.5
Vineyard Seed V 58W#	3	20300	15.7	1.7	176.2	--	--	--	--
Northrup King N6330(sx)	2	25200	14.0	3.3	175.5	173.3	193.4*	174.4	180.7
Terral TV2543(sx)	2	27700	15.3	5.2	175.1	--	--	--	--
Pioneer Hybrid 3279(sx)	2	23400	13.6	4.5	175.0	196.2*	194.9**	185.6	188.7
MFA 5823(sx)	4	23700	16.0	1.5	175.0	194.3*	165.7	184.7	178.3
MFA MX 5356(sx)	4	23900	13.7	2.4	174.6	--	--	--	--
Cargill 6997(sx)	4	24200	14.2	1.4	174.6	--	--	--	--
AgraTech 787(sx)	2	26500	15.2	3.8	174.6	179.1	161.0	176.9	171.6
MFA 6724(sx)	4	23100	15.0	4.9	174.2	180.4	--	177.3	--
Triumph 1452(sx)	1	25500	15.1	8.5	173.5	172.6	--	173.1	--
Delta Genetics DG 175(sx)	3	21800	14.8	5.3	173.2	192.4*	--	182.8	--
HyPerformer HYX-58104(sx)	3	19400	15.0	0.6	173.0	--	--	--	--
Deltapine 4494(sx)	1	23500	14.8	4.3	172.5	--	--	--	--
Vineyard Seed V 448W#	3	22500	15.0	3.1	171.3	--	--	--	--
Northrup King N7707(sx)	3	23200	14.9	1.0	170.8	--	189.0*	--	--
AgraTech 757(sx)	2	24800	14.2	7.0	170.7	209.5*	174.2*	190.1	184.8
Mycogen 8240(sx)	4	24600	14.9	1.9	170.4	184.8	192.3*	177.6	182.5
HyPerformer HS 9502(sx)	1	26300	13.7	2.7	168.8	188.6	169.3*	178.7	175.6
MFA MX 4476(sx)	3	25600	14.7	2.3	168.1	--	--	--	--
Dekalb DK580(sx)	2	24700	13.6	2.4	166.9	--	--	--	--
Pioneer Hybrid 3245(sx)	2	24000	15.1	3.8	166.8	198.5*	183.0*	182.7	182.8
Dyna-Gro 5510(sx)	1	25600	16.0	3.5	164.5	173.6	161.9	169.1	166.7
Patriot 2330(sx)	4	26600	16.1	1.8	163.7	--	--	--	--
Patriot 66168(sx)	4	23700	16.2	0.9	163.4	--	--	--	--
AgraTech 654(sx)	2	21700	14.3	1.9	162.1	--	--	--	--
ICI 8285(sx)	2	25800	15.6	1.4	160.8	--	--	--	--
NC+ 7507(sx)	2	25700	15.4	3.2	156.8	--	--	--	--
Pfister 3976(sx)	1	22500	15.9	0.6	155.6	--	--	--	--
Dyna-Gro 5625(sx)	3	21100	17.2	3.3	152.7	--	--	--	--
Delta Genetics DG 192(sx)	3	18400	14.4	1.3	151.1	214.4*	167.2*	182.8	177.6
TRIAL AVERAGE		24584	15.0	2.9	183.1	191.7	169.0	187.4	181.3
L.S.D. AT .10 ¹		3476	1.4	4.4	25.2	31.5	28.5		
C.V. %		10.3	6.6		10.1	10.1	10.3		

¹ LSD for previous years calculated at p = 0.05.

-- Data not available.

** Highest yielding hybrid in the test.

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

White corn hybrid.

TABLE 18. Performance record of Irrigated Corn Hybrids evaluated at two southeast Missouri locations (Oran and New Madrid) during 1995.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Crow's 685(sx)	2	22.2	4.2	13.2	211.5*	217.2*	214.4**
Pioneer Hybrid 3335(sx)	2	4.8	1.3	3.0	229.5**	198.7*	214.1*
Crow's 668(sx)	2	20.0	1.1	10.6	228.2*	184.0	206.1*
Pioneer Hybrid X1134N(sx)	2	23.5	3.3	13.4	190.7	218.4**	204.6*
Dekalb DK668(sx)	2	4.3	0.4	2.4	196.1	208.9*	202.5*
Pioneer Hybrid X1194F(sx)	2	5.9	0.8	3.4	206.3*	198.5*	202.4*
Terra TR1185(sx)	3	35.6	8.3	22.0	189.6	212.4*	201.0*
Cargill 7777(sx)	3	22.5	2.6	12.6	211.6*	190.2	200.9*
HyPerformer HYX-57103(sx)	2	16.8	5.4	11.1	186.0	215.6*	200.8*
NC+ 6959(sx)	2	2.2	0.9	1.6	197.7	198.0*	197.8*
Pioneer Hybrid 3163(sx)	2	49.8	2.2	26.0	189.2	205.8*	197.5*
Cargill 7997(sx)	2	18.7	1.7	10.2	200.5	192.3	196.4**
Golden Harvest H-2641(sx)	2	4.7	1.8	3.2	189.3	200.9*	195.1
AgraTech 709(sx)	2	12.0	3.4	7.7	204.7*	184.6	194.6
Pioneer Hybrid 3223(sx)	2	7.0	2.3	4.6	184.9	203.8*	194.4
Golden Harvest H-2581(sx)	1	31.4	0.0	15.7	193.9	194.1*	194.0
HyPerformer HS 9843(sx)	3	7.5	1.3	4.4	196.8	190.0	193.4
Pioneer Hybrid 3245(sx)	2	2.3	3.8	3.0	218.9*	166.8	192.8
Terral TV2930(sx)	2	21.0	3.3	12.2	185.6	200.1*	192.8
Pioneer Hybrid 3140(sx)	2	11.8	2.9	7.4	182.0	203.7*	192.8
Terra TR1167(sx)	3	8.8	6.7	7.8	183.7	201.6*	192.6
Pioneer Hybrid 3394(sx)	2	11.0	3.1	7.0	194.7	189.6	192.2
Patriot EX12015(sx)	4	7.0	4.3	5.6	190.0	193.6*	191.8
Terra TR702E(sx)	4	13.7	3.3	8.5	194.5	188.0	191.2
Vineyard Seed V 449W#	3	33.2	1.4	17.3	180.3	201.3*	190.8
Pioneer Hybrid 3203W(sx)	2	25.8	2.1	14.0	189.8	188.1	189.0
Patriot 67192(sx)	4	39.2	2.2	20.7	194.9	178.8	186.8
Northrup King N7590(sx)	3	16.6	3.0	9.8	195.3	177.4	186.4
Pioneer Hybrid 3156(sx)	2	35.3	2.1	18.7	195.4	177.5	186.4
Cargill X7507(sx)	4	8.5	0.5	4.5	191.0	181.2	186.1
Northrup King N8020(sx)	4	4.4	2.2	3.3	191.4	180.2	185.8
Cargill 8327(sx)	4	9.0	0.0	4.5	187.5	183.6	185.6
Deltapine 4494(sx)	1	4.6	4.3	4.4	196.5	172.5	184.5
Deltapine 4653(sx)	2	17.0	1.4	9.2	177.0	190.7	183.8
HyPerformer HS 9919(sx)	4	12.3	2.0	7.2	186.7	180.6	183.6
Mycogen 8460(sx)	4	33.1	2.4	17.8	170.5	196.5*	183.5
Dekalb DK626(sx)	2	1.3	2.6	2.0	180.7	185.7	183.2
Lynks Seeds 2815(sx)	2	5.4	0.0	2.7	176.7	188.9	182.8
Pioneer Hybrid X1184M(sx)	2	43.4	4.7	24.0	179.1	186.1	182.6
Patriot 66158(sx)	4	7.4	0.8	4.1	183.8	181.4	182.6
Lynks Seeds 2868(sx)	3	3.0	1.8	2.4	171.8	193.3*	182.6
Terral TV2642(sx)	2	5.5	1.6	3.6	184.9	179.7	182.3
HyPerformer HS 9905(sx)	4	2.5	2.9	2.7	181.8	182.8	182.3
Triumph 2010(sx)	2	6.1	1.2	3.6	185.2	179.0	182.1
ICI 8285(sx)	2	1.9	1.4	1.6	203.0*	160.8	181.9
Terral TV2543(sx)	2	5.0	5.2	5.1	188.3	175.1	181.7
HyPerformer HYX-57101(sx)	4	27.0	3.9	15.4	182.2	181.1	181.6
MFA 6724(sx)	4	47.8	4.9	26.4	188.6	174.2	181.4
Triumph 1522(sx)	1	22.5	8.3	15.4	183.7	178.9	181.3
Northrup King N6330(sx)	2	7.3	3.3	5.3	186.7	175.5	181.1
Pioneer Hybrid 3279(sx)	2	4.1	4.5	4.3	186.9	175.0	181.0
Genetic Resource/GRI494(sx)	2	12.7	1.6	7.2	164.1	197.6*	180.8
HyPerformer HS 9899V(sx)	4	28.2	10.9	19.6	168.0	193.4*	180.7
Dyna-Gro 5516(sx)	2	2.8	3.1	3.0	175.9	185.5	180.7
Vineyard Seed V 453W#	3	37.4	5.0	21.2	180.5	179.5	180.0
Deltapine 4581(sx)	1	6.5	6.3	6.4	178.4	181.1	179.8
Crow's 490(sx)	1	13.5	4.0	8.8	159.1	200.5*	179.8
Terra TR1130(sx)	2	23.3	0.4	11.8	169.5	188.9	179.2
Mycogen 8240(sx)	4	12.6	1.9	7.2	185.2	170.4	177.8
NC+ 7117(sx)	2	25.4	1.3	13.4	168.9	186.5	177.7

TABLE 18. Continued.

Brand-Hybrid	Mat- urity Group	Lodging (%)			Yield (Bu/Acre)		
		Oran	New Madrid	Mean	Oran	New Madrid	Mean
Dekalb DK580(sx)	2	13.2	2.4	7.8	188.3	166.9	177.6
Pioneer Hybrid X1134T(sx)	2	11.8	3.2	7.5	173.3	180.6	177.0
Lynks Seeds 2829(sx)	2	20.2	1.8	11.0	172.0	179.6	175.8
MFA MX 5356(sx)	4	2.3	2.4	2.4	176.9	174.6	175.8
MFA 5823(sx)	4	27.0	1.5	14.2	175.4	175.0	175.2
HyPerformer HS 9502(sx)	1	5.4	2.7	4.0	181.1	168.8	175.0
HyPerformer HS 9822(sx)	3	4.7	9.6	7.2	168.4	180.2	174.3
Delta Genetics DG 195(sx)	3	71.3	1.6	36.4	161.6	186.1	173.8
HyPerformer AP 9707(sx)	3	11.8	3.0	7.4	165.0	181.7	173.4
AgraTech 787(sx)	2	7.8	3.8	5.8	171.6	174.6	173.1
Dekalb DK683(sx)	2	22.6	3.1	12.8	165.4	180.2	172.8
Vineyard Seed V 448W#	3	29.6	3.1	16.4	173.7	171.3	172.5
Cargill 6997(sx)	4	31.1	1.4	16.2	170.2	174.6	172.4
Dyna-Gro 5510(sx)	1	13.2	3.5	8.4	178.6	164.5	171.6
Delta Genetics DG 175(sx)	3	11.9	5.3	8.6	169.0	173.2	171.1
HyPerformer HYX-58104(sx)	3	3.2	0.6	1.9	169.1	173.0	171.0
Vineyard Seed V 58W#	3	51.7	1.7	26.7	164.3	176.2	170.2
Patriot 66168(sx)	4	2.7	0.9	1.8	176.9	163.4	170.2
Crow's 510(sx)	1	8.6	1.5	5.0	162.8	177.1	170.0
Northrup King N7707(sx)	3	27.6	1.0	14.3	168.1	170.8	169.4
Patriot 2330(sx)	4	36.7	1.8	19.2	175.1	163.7	169.4
AgraTech 757(sx)	2	5.9	7.0	6.4	167.9	170.7	169.3
MFA MX 4476(sx)	3	38.3	2.3	20.3	166.7	168.1	167.4
Triumph 1452(sx)	1	2.3	8.5	5.4	160.2	173.5	166.8
NC+ 7507(sx)	2	13.0	3.2	8.1	161.5	156.8	159.2
Pfister 3976(sx)	1	14.3	0.6	7.4	162.1	155.6	158.8
Delta Genetics DG 192(sx)	3	16.7	1.3	9.0	164.8	151.1	158.0
AgraTech 654(sx)	2	30.0	1.9	16.0	152.6	162.1	157.4
Dyna-Gro 5625(sx)	3	19.2	3.3	11.2	143.2	152.7	148.0
TRIAL AVERAGE		17.0	2.9	9.9	182.1	183.1	182.6
L.S.D. AT .10		26.9	4.4	12.2	27.8	25.2	19.0
C.V. %					11.2	10.1	10.9

** Highest yielding hybrid in the test.

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

White corn hybrid.

TABLE 19. Performance of Early Maturing Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center during 1993-95.

Planted: 7 April 1995
 Harvested: 8 September 1995
 Planted Population: 29200
 Row Spacing: 30 inches
 Soil Type: Mexico Silt Loam
 Soil Test: pH=5.5, OM=1.4%, P=74, K=391

Fertilizer: N=240; P₂O₅=70; K₂O=90
 Herbicide: Lariat + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=7.4, May=14.5, June=3.9, July=4.4, Aug.=7.1, TOTAL=37.3"

Brand-Hybrid	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
				1995	1994	1993	2 Yr.	3 Yr.
Early Maturing (90-100 days) ⁺								
Pioneer Hybrid 3563(sx)	23400	22.1	0.5	146.4*	144.6	181.5*	145.5	157.5
Pioneer Hybrid 3523(sx)	22000	20.5	0.4	143.2*	151.5*	--	147.4	--
Merschman M-5107(sx)	23100	25.3	0.0	134.6*	--	--	--	--
Pfister 2020(sx)	25900	20.9	1.0	133.4*	--	--	--	--
Northrup King N4640(sx)	22200	21.1	0.0	130.3*	--	--	--	--
NC+ 3795(sx)	23000	22.3	0.5	129.5	129.7	179.1*	129.6	146.1
Merschman M-2106(sx)	21100	23.3	0.0	127.9	129.2	163.4	128.6	140.2
Stine Brand 9602(spx)	23000	26.6	0.0	123.4	--	--	--	--
Terra TR1070(sx)	23700	23.8	0.0	122.8	--	155.3	--	--
Ciba Seeds 4393(sx)	22500	21.3	0.5	121.3	111.9	169.0*	116.6	134.1
Federal FX35A(sx)	19900	17.1	0.0	119.2	--	--	--	--
Ciba Seeds 4183(sx)	23100	19.0	1.0	119.1	--	147.1	--	--
Cargill 3427(sx)	20800	20.5	1.5	118.4	--	--	--	--
Dekalb DK471(sx)	26700	19.3	0.0	116.4	--	--	--	--
Terra TR990(sx)	24000	18.4	0.0	113.8	--	--	--	--
Cargill 4177(sx)	25200	20.7	0.5	110.3	--	--	--	--
Pioneer Hybrid 3751(sx)	23500	22.4	1.4	105.5	145.4*	146.4	125.5	132.4
Ciba Seeds 4303(sx)	21700	20.7	0.6	105.3	--	--	--	--
MFA 1822(sx)	20500	19.2	0.0	101.9	127.0	162.5	114.5	130.5
Early Full Season (101-110 days) ⁺								
Pioneer Hybrid 3394(sx)	25400	23.5	1.0	149.5**	160.3**	171.4*	154.9	160.4
Dekalb DK591(sx)	25700	24.7	0.0	130.7*	131.1	169.7*	130.9	143.8
Dekalb DK580(sx)	23900	22.1	0.5	125.3	124.9	163.1	125.1	137.8
Cargill 5404(sx)	27000	23.4	0.5	120.7	--	--	--	--
Cargill 4327(sx)	22000	24.2	0.0	115.7	--	147.5	--	--
Cargill 4127(sx)	26300	21.8	0.0	111.8	--	--	--	--
Mid Full Season (111-120 days) ⁺								
Pioneer Hybrid 3279(sx) ^{##}	20900	27.4	0.0	140.2*	158.3*	--	149.3	--
MFA 4715(sx)	25000	26.4	0.0	139.0*	--	--	--	--
TRIAL AVERAGE	23389	22.1	0.4	124.3	126.9	154.9	125.6	135.4
L.S.D. AT .10 ¹	NS	2.9	1.2	19.2	15.5	15.4		
C.V.%	11.9	9.6		11.4	8.7	7.1		

¹ LSD for previous years calculated at p = 0.05.

^{##} Full season hybrid (111-120 day relative maturity).

⁺ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.

-- Data not available.

** Highest yielding hybrid in the tests.

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

NS Not significant.

TABLE 20. Performance of Early Maturing Corn Hybrids evaluated near Garden City (Cass County) on the Bill Cook Farm during 1994-95 and near Marshall (Saline County) on the Frank Swisher Farm during 1993.

Planted: 14 April 1995
 Harvested: 11 September 1995
 Planted Population: 30,000
 Row Spacing: 30 inches
 Soil Type: Monona Silt Loam
 Soil Test: pH=6.1, OM=3.2%, P=49, K=289

Fertilizer: N=140; P₂O₅=100; K₂O=100
 Herbicide: Bullet + Bladex
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=5.4, May=13.6, June=7.8, July=4.3, Aug.=3.6, TOTAL=34.7"

Brand-Hybrid	Plants (#/Acre)	Moisture (%)	Lodging (%)	Yield (Bu/Acre)			Means	
				1995	1994	1993	2 Yr.	3 Yr.
Early Maturing (90-100 days) ⁺								
Merschman M-2106(sx)	24900	17.5	0.5	96.7*	127.8*	122.0	112.3	115.5
Northrup King N4640(sx)	24900	14.5	0.0	94.5*	--	--	--	--
Pioneer Hybrid 3523(sx)	27500	17.9	2.5	94.4*	140.4*	--	117.4	--
NC+ 3795(sx)	23200	18.4	1.4	85.0	124.4	138.2*	104.7	115.9
Cargill 4177(sx)	25700	18.0	1.3	84.3	--	--	--	--
Stine Brand 9602(spx)	21300	18.9	0.6	84.2	--	--	--	--
Terra TR1070(sx)	24400	21.6	4.3	80.7	--	129.7	--	--
Ciba Seeds 4393(sx)	22800	18.5	1.5	78.9	126.2*	138.3*	102.6	114.5
Pioneer Hybrid 3563(sx)	23300	17.6	0.5	78.1	130.0*	141.5*	104.1	116.5
Ciba Seeds 4303(sx)	22800	18.7	0.0	77.7	--	--	--	--
Cargill 3427(sx)	26900	15.1	2.2	77.5	--	--	--	--
Pioneer Hybrid 3751(sx)	26700	17.8	5.4	75.7	125.6*	112.4	100.7	104.6
Ciba Seeds 4183(sx)	22500	15.5	4.8	72.1	--	110.4	--	--
Merschman M-5107(sx)	20600	18.4	0.5	71.6	--	--	--	--
MFA 1822(sx)	22000	16.4	14.4	70.7	105.6	123.1	88.2	99.8
Dekalb DK471(sx)	26100	15.9	2.7	70.3	--	--	--	--
Federal FX35A(sx)	23900	14.8	3.3	69.5	--	--	--	--
Terra TR990(sx)	24700	17.7	1.5	69.4	--	--	--	--
Pfister 2020(sx)	25200	17.8	7.4	65.6	--	--	--	--
Early Full Season (101-110 days) ⁺								
Dekalb DK591(sx)	26300	21.7	2.2	103.6**	141.9*	151.2*	122.8	132.2
Cargill 5404(sx)	26800	17.2	2.2	87.8	--	--	--	--
Pioneer Hybrid 3394(sx)	26500	19.6	1.3	86.2	142.7**	157.5**	114.5	128.8
Dekalb DK580(sx)	26900	21.1	2.1	84.1	132.4*	144.8*	108.3	120.4
Cargill 4127(sx)	26400	15.9	0.9	82.6	--	--	--	--
Cargill 4327(sx)	26800	18.5	1.7	80.7	--	105.9	--	--
Mid Full Season (111-120 days) ⁺								
MFA 4715(sx)	26500	19.6	0.4	93.7*	--	--	--	--
Pioneer Hybrid 3279(sx) ^{##}	24500	22.4	1.9	83.3	136.6*	--	110.0	--
TRIAL AVERAGE	24819	18.0	2.5	81.4	124.6	125.6	103.0	110.5
L.S.D. AT .10 ¹	2915	1.2	5.3	14.5	17.9	21.8		
C.V. %	8.6	4.6		13.1	10.2	12.4		

¹ LSD for previous years calculated at p = 0.05.
^{##} Full season hybrid (111-120 day relative maturity).
⁺ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.
 -- Data not available.
 ** Highest yielding hybrid in the test.
 * Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

TABLE 21. Performance of Early Maturing Corn Hybrids evaluated near Lamar (Barton County) on the Sherrell Bean Farm during 1993-95.

Planted: 5 April 1995
 Harvested: 18 September 1995
 Planted Population: 30,000
 Row Spacing: 30 inches
 Soil Type: Parsons Silt Loam
 Soil Test: pH=7.6, OM=1.4%, P=159, K=394
 Fertilizer: N=215; P₂O₅=36; K₂O=75
 Herbicide: Dual + Extrazine
 Insecticide: Lorsban
 Irrigation: 0.00 inches
 Previous Crop: Soybean

Growing Season Rainfall: Apr.=6.5, May=13.4, June=11.6, July=1.1, Aug.=3.0, TOTAL=35.6"

Brand-Hybrid	Plants	Moisture	Lodging	Yield			Means	
	(#/Acre)	(%)	(%)	(Bu/Acre)			2 Yr.	3 Yr.
		1995		1995	1994	1993		
Early Maturing Hybrids (90-100 days) ⁺								
Pioneer Hybrid 3563(sx)	19800	16.2	0.0	119.7*	106.1	39.9	112.9	88.6
Pioneer Hybrid 3523(sx)	18600	17.3	0.0	114.7*	128.6*	--	121.7	--
Stine Brand 9602(spx)	17700	17.9	0.0	105.4*	--	--	--	--
Pfister 2020(sx)	19500	16.3	0.0	103.7*	--	--	--	--
NC+ 3795(sx)	17000	16.2	0.0	100.9*	103.1	50.5	102.0	84.8
Northrup King N4640(sx)	16900	16.3	0.0	92.3	--	--	--	--
Merschman M-5107(sx)	17600	16.7	0.0	90.9	--	--	--	--
Ciba Seeds 4393(sx)	15700	16.7	0.0	89.2	47.0	18.9	68.1	51.7
Federal FX35A(sx)	16500	15.3	0.0	85.6	--	--	--	--
Pioneer Hybrid 3751(sx)	15100	16.1	0.0	83.9	109.2	74.6**	96.6	89.2
Ciba Seeds 4303(sx)	15700	15.7	0.0	83.3	--	--	--	--
Dekalb DK471(sx)	14000	15.3	0.0	81.9	--	--	--	--
Merschman M-2106(sx)	13700	18.0	0.0	79.2	65.7	55.9	72.5	66.9
Cargill 4177(sx)	17400	15.9	0.6	77.5	--	--	--	--
Ciba Seeds 4183(sx)	13800	15.0	0.8	75.5	--	61.3*	--	--
Terra TR990(sx)	18200	16.4	0.0	75.3	--	--	--	--
Cargill 3427(sx)	16500	15.1	0.7	74.1	--	--	--	--
Terra TR1070(sx)	13400	18.0	0.0	72.0	--	49.1	--	--
MFA 1822(sx)	10400	16.0	0.0	61.6	78.2	63.7*	69.9	67.8
Early Full Season Hybrids (101-110 days) ⁺								
Pioneer Hybrid 3394(sx)	15400	17.2	0.0	120.4**	127.3*	43.8	123.9	97.2
Dekalb DK580(sx)	18400	17.3	0.0	109.3*	103.6	47.1	106.5	86.7
Cargill 4127(sx)	17700	16.5	0.0	94.5	--	--	--	--
Cargill 5404(sx)	17700	18.0	0.0	92.4	--	--	--	--
Dekalb DK591(sx)	14100	18.7	0.0	91.2	65.1	27.5	78.2	61.3
Cargill 4327(sx)	16100	16.6	0.0	70.9	--	40.8	--	--
Mid Full Season Hybrids (111-120 days) ⁺								
Pioneer Hybrid 3279(sx) ^{##}	20100	18.5	0.0	108.0*	105.0	--	106.5	--
MFA 4715(sx)	20700	17.8	0.0	98.4	--	--	--	--
TRIAL AVERAGE	16581	16.7	0.1	90.8	91.1	43.3	91.0	75.1
L.S.D. AT .10 ¹	3916	1.1	NS	21.2	28.4	14.7		
C.V. %	17.2	4.6		16.4	22.2	24.9		

¹ LSD for previous years calculated at p = 0.05.
^{##} Mid full season check hybrid (111-120 day relative maturity).
⁺ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.
 -- Data not available.
 ** Highest yielding hybrid in the tests.
 * Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
 NS Not Significant.

TABLE 22. Performance of Early Maturing Corn Hybrids evaluated near Columbia (Boone County) on the Agronomy Research Center, near Garden City (Cass County) on the Bill Cook Farm, and near Lamar (Barton County) on the Sherrell Bean Farm during 1995.

Brand-Hybrid	Lodging (%)				Yield (Bu/Acre)			
	Columbia	Gard.City	Lamar	Mean	Columbia	Gard. City	Lamar	Mean
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Columbia Planted: 7 April 1995 Harvested: 8 September 1995 Growing Season Rainfall: 37.3"</p> </div> <div style="width: 30%;"> <p>Garden City Planted: 14 April 1995 Harvested: 11 September 1995 Growing Season Rainfall: 34.7"</p> </div> <div style="width: 30%;"> <p>Lamar Planted: 5 April 1995 Harvested: 18 September 1995 Growing Season Rainfall: 35.6"</p> </div> </div>								
Early Maturing Hybrids (90-100 days)⁺								
Pioneer Hybrid 3523(sx)	0.4	2.5	0.0	1.0	143.2*	94.4*	114.7*	117.4*
Pioneer Hybrid 3563(sx)	0.5	0.5	0.0	0.3	146.4*	78.1	119.7*	114.7*
Northrup King N4640(sx)	0.0	0.0	0.0	0.0	130.3*	94.5*	92.3	105.7
NC+ 3795(sx)	0.5	1.4	0.0	0.6	129.5	85.0	100.9*	105.1
Stine Brand 9602(spx)	0.0	0.6	0.0	0.2	123.4	84.2	105.4*	104.3
Merschman M-2106(sx)	0.0	0.5	0.0	0.2	127.9	96.7*	79.2	101.3
Pfister 2020(sx)	1.0	7.4	0.0	2.8	133.4*	65.6	103.7*	100.9
Merschman M-5107(sx)	0.0	0.5	0.0	0.2	134.6*	71.6	90.9	99.0
Ciba Seeds 4393(sx)	0.5	1.5	0.0	0.7	121.3	78.9	89.2	96.5
Terra TR1070(sx)	0.0	4.3	0.0	1.4	122.8	80.7	72.0	91.8
Federal FX35A(sx)	0.0	3.3	0.0	1.1	119.2	69.5	85.6	91.4
Cargill 4177(sx)	0.5	1.3	0.6	0.8	110.3	84.3	77.5	90.7
Cargill 3427(sx)	1.5	2.2	0.7	1.5	118.4	77.5	74.1	90.0
Dekalb DK471(sx)	0.0	2.7	0.0	0.9	116.4	70.3	81.9	89.5
Ciba Seeds 4183(sx)	1.0	4.8	0.8	2.2	119.1	72.1	75.5	88.9
Ciba Seeds 4303(sx)	0.6	0.0	0.0	0.2	105.3	77.7	83.3	88.8
Pioneer Hybrid 3751(sx)	1.4	5.4	0.0	2.3	105.5	75.7	83.9	88.4
Terra TR990(sx)	0.0	1.5	0.0	0.5	113.8	69.4	75.3	86.2
MFA 1822(sx)	0.0	14.4	0.0	4.8	101.9	70.7	61.6	78.1
Early Full Season Hybrids (101-110 days)⁺								
Cargill 4327(sx)	0.0	1.7	0.0	0.6	115.7	80.7	70.9	89.1
Pioneer Hybrid 3394(sx)	1.0	1.3	0.0	0.8	149.5**	86.2	120.4**	118.7**
Dekalb DK591(sx)	0.0	2.2	0.0	0.7	130.7*	103.6**	91.2	108.5*
Dekalb DK580(sx)	0.5	2.1	0.0	0.9	125.3	84.1	109.3*	106.2
Cargill 5404(sx)	0.5	2.2	0.0	0.9	120.7	87.8	92.4	100.3
Cargill 4127(sx)	0.0	0.9	0.0	0.3	111.8	82.6	94.5	96.3
Mid Full Season Hybrids (111-120 days)⁺								
Pioneer Hybrid 3279(sx) ^{##}	0.0	1.9	0.0	0.6	140.2*	83.3	108.0*	110.5*
MFA 4715(sx)	0.0	0.4	0.0	0.1	139.0*	93.7*	98.4	110.4*
TRIAL AVERAGE	0.4	2.5	0.1	1.0	124.3	81.4	90.8	98.8
L.S.D. AT .10	1.2	5.3	NS	1.7	19.2	14.5	21.2	10.5
C.V. %					11.4	13.1	16.4	13.7

^{##} Mid full season check hybrid (111-120 day relative maturity).
⁺ Only hybrids classified as 100 days or less in maturity are considered "early maturing" in this test. Hybrids classified as 101-110 days and 111-120 days are considered early and mid full season hybrids, respectively.
^{**} Highest yielding hybrid in the test.
^{*} Hybrid which did not yield significantly less than the highest yielding hybrid in the test.
NS Not significant.

TABLE 23. SOURCE OF COMMERCIAL SEED CORN ENTERED IN THE 1995 MISSOURI YIELD TRIALS.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
AgraTech	654, 709, 757, 787	AgraTech Seeds, Inc., 5559 N. 500 W., McCordsville, IN 46055 (800-382-7333)
AgriPro	AP 619, AP 9707, HS 9502, HY 9610, HS 9843, HS 9848	AgriPro Seeds, Inc., Rt. 2, Hwy 30 East, Ames, IA 50010 (515-232-0691)
Asgrow	RX770, RX789, RX801, RX843, RX893	Asgrow Seed Co., 2605 E. Kilgore, Kalamazoo, MI 49002 (616-384-5562)
Bioseed	9530, 9550, 9555, 9600	Bioseed Genetics, 2010 South Ankeny Blvd., Ankeny, IA 50021 (515-964-6729)
Bo-Jac	409, 438, 577, 615, 629	Bo-Jac Seed Co., 245 1500th Ave., Mt. Pulaski, IL 62548 (800-397-2069)
Burrus	BX62, BX64, BX72, BX80, BX83, BX86, BX87+	Burrus Bros. & Assoc. Growers, Rt. 1, Box 22, Arenzville, IL 62611 (217-997-5511)
Cargill	3427, 4127, 4177, 4327, 5404, 6303, 6997, 7557, 7777, 7897, 7997, 8327, X7507	Cargill Hybrid Seeds, Box 5645, Minneapolis, MN 55440 (612-742-6731)
Ciba	4183, 4303, 4393, 4475, 4545, 4450, 4494, 4575, 4581	Ciba Seed, 3615 S. Hilton Lane, Peoria, IL 61607 (309-697-2414)
Crow's	490, 510, 668, 685, SL70	Crow's Hybrid Corn Co., Box 306, Milford, IL 60953 (815-889-4151)
Dairyland	Stealth 1118, Stealth 1416	Dairyland Seed Co., Inc., Box 958, West Bend, WI 53095 (414-338-0163)
Dekalb	DK471, DK580, DK591, DK626, DK646, DK668, DK683, DK715	Dekalb Genetics Corp., 3100 Sycamore Road, DeKalb, IL 60115 (815-758-9323)
Delta Genetics	DG 175, DG 192, DG 195,	Delta Genetics, Inc., Box 572, Blytheville, AR 72316 (501-763-1547)
Deltapine	4494, 4581, 4653	Delta and Pine Land Co., Box 157, Scott, MS 38772 (601-742-3351)
Dyna-Gro	5510, 5516, 5625	Tri-State Delta Chem., Inc., Box 89, Hwy 80W @ Coop Gin Rd., Rayville, LA 71269 (318-728-9041)
Federal	FX35A	Federal Hybrids, 5420 35th Ave., Marion, IA 52302 (319-377-0730)
Fontanelle	5222, 5325, 5335, 5624	Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044 (402-721-1410)
Freedom	5575, 5666, 5695, 5697	Freedom Seed Co., US Rt 24 E. Box 710, Astoria IL 61501 (309-759-4480)
Genetic Resources	GRI 494	Genetic Resources, Inc., Rt. 1, Box 229, Philo, IL 61864 (217-684-2783)
Golden Harvest	H-2547, H-2548, H-2573, H-2581, H-2641, H-2622	The J.C. Robinson Seed Co., 100 J.C. Robinson Blvd., Waterloo, NE 68069 (402-779-2531)
Hawkeye Hybrids	7994, 8179	Hawkeye Hybrids Inc., 2165 Idaho Dr., Pella, IA 50219 (515-628-3827)
Hubner	H3414, H3915	Hubner Seed Co., Inc., 10280 W. St. Rd 28, West Lebanon, IN 47991 (317-893-4428)
Hyperformer	HS 9502, HY 9899V, HS 9822, HS 9843, HS 9905, HY 9919, HYX57101, HYX57103, HYX58104, AP 9707	Hyperformer Seed Co., One Hy Crop Row, Memphis, TN 38120 (901-756-1771)

TABLE 23. CONTINUED.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
ICI	8285, 8281, 8330, 8476	ICI Seeds, Rt. 2, Box 142, Bowling Green, MO 63334 (314-324-5932)
JMS	SX 1142, SX 1163, SX 2275A	LG Seeds, Mt. Pleasant Serv. Center, Old Hwy 218N., Box 28 Mt. Pleasant, IA 52641 (800-397-5010)
Kruger	K-9220, K-9315B-PT, K-9415A, K-9417, K-9516, K-9616, K-9616B, K-9618, K-9620, K-9621, K-9720B, K-9722, EX116, EX9720, EX9720A	Kruger Seed Co., Hwy 20 E., Box A, Dike, IA 50624 (800-772-2721)
Lewis	4503, 4985, 5584, 5643, 6294, 8492	Lewis Hybrids, Inc., Box 38, W. Maple St., Ursa, IL 62376 (217-964-2131)
LG Seeds	LG 2621, LG 2632, LG 2705	LG Seeds, Mt. Pleasant Serv. Center, Old Hwy 218N. Box 28, Mt. Pleasant, IA 52641 (800-397-5010)
Lynks	2719, 2815, 2821, 2829, 2868	Lynks Seeds, Box 637, Marshalltown, IA 50158 (800-798-2676)
McAllister	SX9316, SX9319	LG Seeds, Mt. Pleasant Serv. Center, Old Hwy 218N., Box 28, Mt. Pleasant, IA 52641 (800-397-5010)
Mellow Dent	7805, 7810, 7820, 7875	Mellow Dent Seeds, Inc., 661 510th ST., Alta IA 51002 (712-296-3663)
Merschman	M-2106, M-2121, M-3115, M-3117, M-3120, M-5107, M-5112, M-5114, M-5115, M-5116, M-5117	Merschman Seed Co., 103 Ave. D., West Point, IA 52656 (319-837-6111)
MFA	1822, 4715, 5225, 5823, 6724, MX4476, MX5356	MFA Inc., 615 Locust, Columbia, MO 65201 (314-876-5345)
Middlekoop	514, 717, 718, 813, 814, 815, 817	Middlekoop Seed Corn, Inc., Rt. 1, Box 46, Packwood, IA 52580 (319-695-3266)
M/W Genetics	G 7940, G 8440, G 8445, G 8775	Midwest Seed Genetics, Inc., 213 E. 6th St., Box 518, Carroll, IA 51401 (800-369-8218)
Mycogen	7660, 8240, 8460	Mycogen Plant Sciences, 624 27th St., Lubbock, TX 79404 (806-744-1408)
NC+	3795, 5037, 6959, 7117, 7507	NC+ Hybrids, 3820 N. 56th St., Box 4408, Lincoln, NE 68504 (402-467-2517)
Northrup King	N4640, N6330, N6822, N7070, N7590, N7707, N8020	Northrup King Co., 702 Magnolia, Mt. Vernon, IL 62864 (618-244-3454)
Ohlde	300, 331, 340, 510	Ohlde Seed Farms Inc., Rt. 1, Box 63, Palmer, KS 66962 (913-692-4555)
Patriot	2330, 6160, 7170, 65100, 66158, 66168, 67192, EX12015	Patriot Seed Inc., 1411 N. Kickapoo, Lincoln, IL 62656 (217-732-8102)
Pfister	2020, 2650, 3490, 3965, 3976	Pfister Hybrid Corn Co., Box 187, El Paso, IL 61738 (309-527-6000)
Pioneer hybrid	3140, 3156, 3163, 3203W, 3223, 3245, 3279, 3335, 3394, X1134N, X1134T, X1184M, X1194F	Pioneer Hi-Bred Int., Inc., 6767 Old Madison Pike, Suite #110, Huntsville, AL 35806 (205-971-0760)
Pioneer hybrid	3163, 3223, 3245, 3279, 3317, 3335, 3394, 3489, 3523, 3563, 3751	Pioneer Hi-Bred Int., Inc., Box 1536, O'Fallon, IL 62269 (618-624-8222)
Rainbow	1155, 1165, 2142, 3109, 3170	Rainbow Seed Co., 1816 Hwy. 163, Oskaloosa, IA 52577 (515-673-9471)

TABLE 23. CONTINUED.

BRAND	HYBRIDS ENTERED	FIRM AND ADDRESS
Randell	7109, 7111, 7114	Randell Seed Co. Box 67, Cedar Tree, IA 52543 (515-673-4950)
Renze	6345, 6370, 6386, 6416, 6425	Renze Hybrids, Inc., RT 3, Box 235, Carroll IA 51401 (712-669-3301)
Scott's	3118, 4112, 4116, 5118	Scott's Quality Seeds, 1701 N Broadway, Mt Pleasant, IA 52641 (319-385-8519)
Stine Brand	9602, 9702, 9703, 9704, 9801	Stine Seed Co., 2225 Laredo Trail, Adel, IA 50003 (515-677-2289)
Terra	TR702E, TR990, TR1070, TR1130, TR1154, TR1167, TR1185	Terra Int., Inc., 600 4th St., Box 6000, Sioux City, IA 51102 (712-233-3609)
Terral	TV2543, TV2642, TV2930	Terral-Norris Seed Co., Inc., 604 Blount St., Box 826, Lake Providence, LA 71254 (318-559-2840)
Triumph	1452, 1522, 2010	Triumph Seed Co., Inc., Box 1050, Ralls, TX 79357 (806-253-2584)
Vineyard	V58W, V448W, V449W, V453W	Vineyard Seed, Box 139, Sidney, IL 61877 (217-688-2361)
Wilson	2330, E12015	Wilson Seeds, Inc., Box 391, Harlan, IA 51537 (712-755-3841)



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