



Missouri Crop Performance 1977 Corn

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SYNOPSIS

The fall of 1976 was open and harvest proceeded at a record pace, with 7% of the corn crop harvested by 7 September and 93% by 15 November. In fact, by this date over 91% of the corn, grain sorghum, and soybean crops had been harvested and 60% of the fall plowing for spring crops had been completed. Spring plowing (1977) also proceeded very well and by April 20 was over 90% complete.

Because of the open fall (1976) and the dry winter that followed, most farmers were anticipating a summer drought of greater severity than usual, thus planting was completed with dispatch. By the end of the first week in May, 81% of the corn acreage had been planted.

Temperatures during the early and middle part of the growing season ranged from 2 to 6 degrees above the long-term average throughout the state. Although precipitation was generally below normal, distribution was good and the anticipated severe drought did not materialize for much of the state. Nevertheless specific localized areas of the north part of the state were struck particularly hard -- notably portions of the area between, and including, Atchison and Grundy counties.

Yields were good in some areas of the state, particularly central Missouri, but the overall state average was probably near the long-term average.

SELECTING A HYBRID FOR YOUR FARM

Period-of-Years Performance Records

A number of hybrids have been tested for periods of two or three years either in a single district or in groups of districts. These performance records are presented in tabular form for the respective districts.

Emphasis is placed upon the fact that results for a period of greater than one year are of greater value in assessing the performance of a hybrid than the results from a single year. If one must rely on results from any one year, it is best to use the average performance from as many testing locations as possible in the general area where the hybrid is to be grown.

Statistical Interpretations

The performance of each hybrid cannot be measured with absolute precision. Uncontrollable variability is involved in the determination of each yield average. The statistic used here as a measure of variability is called the least significant difference. It can be expressed at any probability level. We have chosen to present it at the 5 and 20 percent levels. It is usually written as "L.S.D.". In each single year table the L.S.D.

is given at the bottom in bushels per acre. The reader will note that the L.S.D.'s vary in magnitude from table to table. This means that the trials differ in their uncontrolled variability. One having an L.S.D. of 11 bushels has less variability than one with an L.S.D. of 15 bushels per acre. A yield difference of 12 bushels between two hybrids would be more meaningful in the first set of data than in the second. Interpreted in terms of probability of an event occurring, the L.S.D. values mean; (1) at the 5% level, if hybrid A exceeds hybrid B in yield by more than the L.S.D. value, then you would expect that 19 out of 20 years it would do so; (2) at the 20% level, if hybrid A exceeds hybrid B in yield by more than the L.S.D. value, then you would expect it to do so in 16 out of 20 years.

Recommendations

The Missouri Agricultural Experiment Station does not make specific recommendations for hybrids. It is suggested that the farmers growing a new hybrid for the first time consider the information contained in this booklet and then grow a small acreage to determine adaptability. This should be the practice for all new hybrids regardless of origin.

Planting Rates

The rate of planting has a direct bearing on corn yields. In Missouri, experimental work indicates that optimum populations are between 16,000 and 20,000 harvested plants per acre depending on the area. Where moisture stress can be minimized with irrigation higher populations may be acceptable. Perfect stands are rarely realized. There is generally a 10 to 25 percent loss in stand between planting and harvest even under ideal conditions.

The following table is presented as an aid in estimating per-acre plant populations.

Table 1. Distance between plants within a row required for a given per-acre plant population.

Inches Between Each Plant in Row	Row Width in Inches				
	20	30	36	38	40
6	-----	34,850	29,040	27,540	26,130
7	-----	29,870	24,890	23,630	22,410
8	-----	26,140	21,780	20,640	19,600
9	-----	23,230	19,360	18,340	17,424
10	31,360	20,910	17,420	16,510	15,680
12	26,140	17,420	14,520	13,750	13,070
14	22,400	14,930	12,450	11,790	11,200
16	19,600	14,930	10,890	10,317	9,800
18	17,420	11,620	9,680	9,170	8,710
20	15,680	10,450	8,710	8,250	7,840

Date of Planting

Hybrids should be planted as soon as soil and climate permit. Research conducted at the North Missouri Research Center¹ indicates highest yield can be expected from plantings made between April 20 and May 10. A reduction of 0.4 of a bushel resulted for each day of delay in planting after May 10 until June 1. For each day of delay after June 1 a reduction of 2.4 bushels occurred.

At Columbia² a decrease of about 12 bushels per acre occurred when planting was delayed from April 20 to May 20. Only a small difference in yield was noted among the April 1, April 20, and May 10 plantings at the Delta Center.³ After May 10 a reduction of one bushel occurred for each day of delay in planting. In addition to higher yield, early planted corn generally had less lodging, lower ear height, less European corn borer and less earworm damage.

¹ Zuber, M.S. 1966. Date of planting studies with corn. North Missouri Research Center. Missouri Agricultural Experiment Station Bulletin 832.

² Grogan, C.O., M.S. Zuber, N. Brown, D.C. Peter and H.E. Brown. Date of planting studies with corn. Missouri Agricultural Experiment Station Research Bulletin 706.

³ Zuber, M.S. 1967. Date of planting studies with corn in the Missouri Delta area. Missouri Agricultural Experiment Station Bulletin 862.

EXPERIMENTAL PROCEDURES

Testing Area

For statistical reporting purposes the state is divided into nine districts, each based on the geographical characteristics of the area. Tests were located in seven of the nine districts. Figure 1 shows the districts and the counties in which tests were conducted. Cultural practices applied at each site are given in Table 4.

Seed Sources

All producers of hybrid seed were eligible to enter hybrids in the 1977 evaluation plots. No limit was placed on the number of hybrids any one seed producer could enter in the trials on a fee basis. In addition to the fee entries, a broader-based program was continued in which certain widely-grown hybrids were included on a no-fee basis. Identification of these widely-grown hybrids was through an extensive mail survey of hybrids grown by farmers of Missouri. The number of subsidized entries from this option for each company was limited to three or less no-charge hybrids per location. Each company was also eligible to nominate two hybrids for inclusion in the irrigation trials. A minimum of 15 pounds of processed seed was supplied by the company or purchased from a seed dealer for each entry. Seed for the open-pedigree hybrids was furnished by the respective state agricultural experiment stations or by certified seed producers.

Field Design

Lattice field plot designs of appropriate size and random assignment of entry numbers were used in all tests to locate plots at random over the testing area. This was done to facilitate statistical analysis for computing the least significant differences (L.S.D.) and to minimize the effect of cultural and soil differences over the testing area. Three two-row plots of each hybrid were planted at all locations.

Stand

All plots were planted using conventional equipment modified for small plot work. Plots were over-planted for an expected 10 to 15 percent stand loss.

Lodging

A plant was classified as root-lodged if it leaned more than 30 degrees from the vertical through the first several internodes and stalk-lodged if it was broken below the ear. A plant that was both root and stalk-lodged was recorded in both categories. The percent lodged plants was calculated based on the total number of plants present at time of harvest.

Dropped Ears

The total number of ears dropped by each hybrid was recorded at harvest. Dividing this number by the total number of plants present and multiplying by 100 gave the percent of ears dropped. It was assumed that each plant produced one ear.

Ear-Height

The ear-height grade was determined from averages of the three plots of a hybrid at a location. The grade consisted of the approximate number of feet from the ground level to the point of attachment of the primary ear.

Yield

The corn from each plot was harvested with a two-row combine and then weighed. Yield was determined on the basis of shelled corn with a moisture content of 15.5 percent. Adjustments were not made for stand deviations. The reported yield at each location for each hybrid is the average yield of three two-row plots.

Moisture

The grain moisture of each entry was determined at harvest by obtaining a random sample from each plot during shelling. Grain from each plot was thoroughly mixed and the moisture content determined with a Burrows moisture tester. The moisture percentage reported in the tables for each hybrid is the average of three plots at all locations. The grain yields were adjusted to 15.5 percent moisture.

Table 1. Total rainfall, number of days with rain, and dry periods* from May 1 through August 31 at each testing location.

Location	Growing Season		May		June		July		August		Dry Periods*
	Total Rainfall	Days With Rain	Rain	Days With Rain	Rain	Days With Rain	Rain	Days With Rain	Rain	Days With Rain	
Tarkio	16.48**	39**	5.62	14	1.49	4	Data Missing		9.37	21	
Spickard	16.39	43	4.49	12	1.78	6	1.33	5	8.79	20	
Edina	13.36	37	1.44	5	3.16	9	2.36	6	6.40	17	
Norborne	23.31	53	3.95	13	6.03	14	7.38	12	5.95	14	(8-16 to 8-31)
Columbia	13.43	36	4.31	10	5.24	15	1.62	4	2.26	7	
McCredie	14.09	32	5.21	12	2.50	8	1.43	4	4.95	8	(6-1 to 6-21)
Mt. Vernon	21.60	49	3.53	8	8.11	19	2.84	8	7.12	14	
Sikeston	17.45	46	2.28	6	5.02	15	4.54	13	5.61	12	(6-1 to 6-17) (5-7 to 5-22)
Portageville	15.77	42	5.62	14	3.59	11	3.00	8	3.56	9	

* A dry period is 15 or more days with less than 0.25 inch precipitation in any one day. All dates listed are inclusive.

The beginning date is the day after rainfall of 0.25 inch or more and the ending date is the day before a 0.25 inch rainfall.

** July data not included.

Table 2. Summary of temperature data for the period May 1 through August 31 at various Missouri locations.

Location	Month	Avg. Temp.	Degrees From Normal	Number of Days Above	
				90°	100°
Tarkio	May	69.9	6.5	0	0
	June	75.4	3.3	11	1
	July		Data Missing		
	August	72.0	-3.1	7	0
Spickard	May	69.0	5.7	0	0
	June	74.3	2.2	6	0
	July	80.5	3.6	22	0
	August	73.1	-0.6	4	0
Edina	May	68.2	5.1	0	0
	June	73.0	1.4	7	0
	July	80.4	4.4	22	0
	August	73.1	-1.3	3	0
Norborne	May	69.0	3.8	0	0
	June	74.7	0.9	6	0
	July	79.4	1.6	21	0
	August	75.2	0.0	6	0
Columbia	May	68.0	3.6	0	0
	June	73.5	0.5	3	0
	July	79.3	2.0	18	0
	August	77.0	1.0	11	0
McCredie	May	68.4	4.5	0	0
	June	73.0	0.2	6	0
	July	79.0	1.8	21	0
	August	75.4	-0.4	11	0
Mt. Vernon	May	69.0	3.8	0	0
	June	75.1	1.4	9	0
	July	79.1	1.2	17	0
	August	77.5	0.3	11	0
Sikeston	May	73.0	5.1	8	0
	June	77.6	1.2	11	1
	July	81.8	2.5	23	0
	August	78.5	0.8	15	0
Portageville	May	72.5	2.9	4	0
	June	77.8	0.5	12	0
	July	81.3	1.1	22	0
	August	78.2	-0.8	14	0

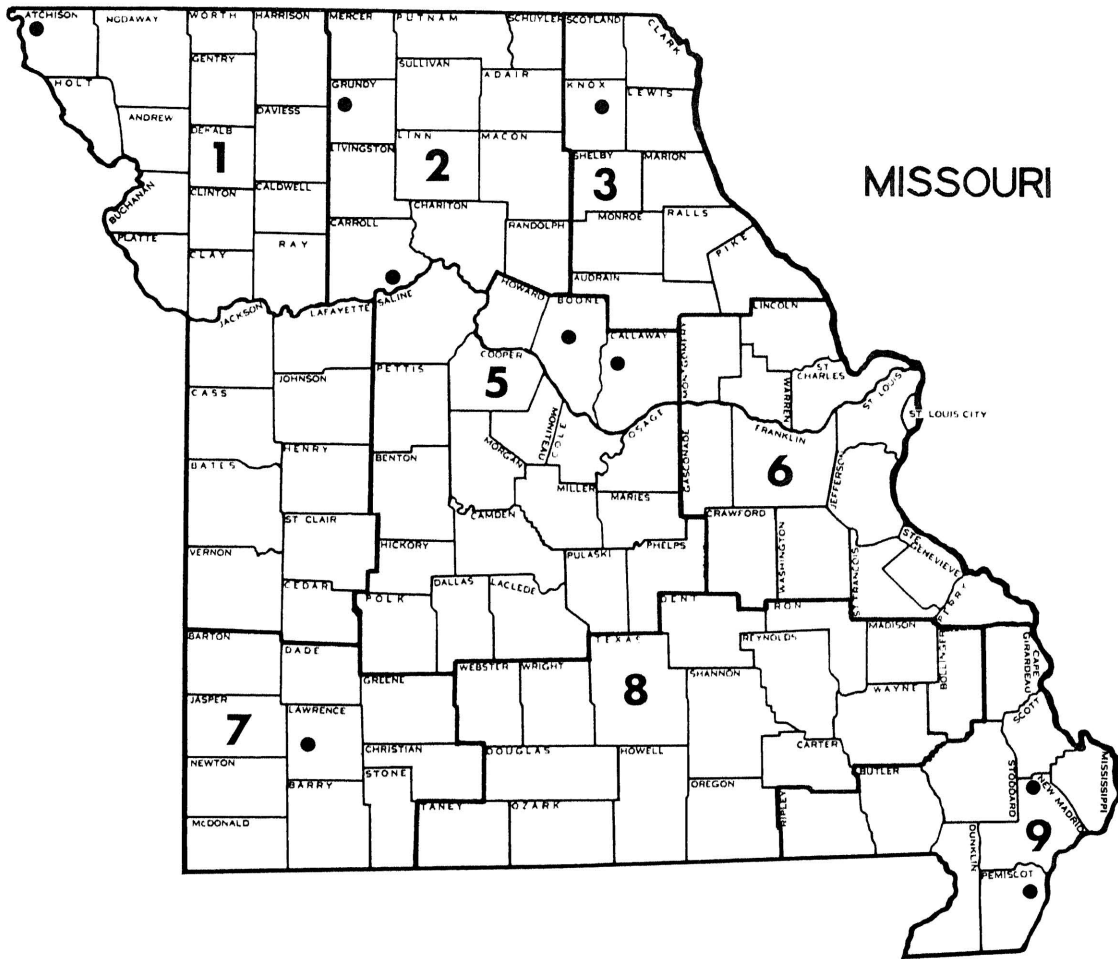


FIG. 1. TEST SITE LOCATIONS.

Table 4. Cultural practices of 1977 hybrid corn evaluation plots.

Location	Soil Test			Fertilizer Added	Insect- icide*	Herb- icide*	Row Width (in.)	Planting Rate (per/ac)	Date Planted	Date Harv- ested	Cooperator (Town)
	O. M.	P ₂ O ₅	K								
District 1 (Atchinson Co.)	3.8	465	530	125- 50- 50	None	Lasso + Atrazine	30	21,000	4-19	10-17	J. Jones & B. Vette (Tarkio)
District 2 (Grundy Co.)	3.6	230	360	200-100-120	None	Lasso + Atrazine	30	21,000	4-26	----	North Missouri Center(Spickard)
District 3 (Knox Co.)	2.5	122	190	150- 50-150	None	Lasso + Atrazine	30	21,000	4-18	9-28	Lynn Douglas (Edina)
District 4 (Carroll Co.)	3.0	418	1000	85- 0- 0	None	Lasso + Atrazine	30	21,000	4-12	9-23	Holton Eschenbach (Norborne)
District 5 (Boone Co.)	2.0	315	355	150- 60-190	None	Lasso + Bladex	30	21,000	4-11	9-08	Agronomy Research Center(Columbia)
District 9 (Pemiscot Co.)	2.2	385	484	175- 30- 30	None	Atrazine	38	22,000	4-01	8-25	Delta Center (Portageville)
District 9 (New Madrid Co.)	1.5	147	220	200- 60- 90	None	Atrazine	38	22,000	4-12	9-01	C. G. Scott (Matthews)
Irrigation Test (Callaway Co.)	2.5	250	295	250-125-125	Furadan	Lasso + Bladex	30	28,000	4-14	10-03	Claypan Research Station(McCredie)
Irrigation Test (Lawrence Co.)	2.6	448	400	300-200-200	None	Sutan + Bladex	30	28,000	4-05	9-20	Southwest Center (Mt. Vernon)

*Applied at recommended rates. See MU Guide 4136 for 1977 Chemical Weed Control Recommendations and MU Guide 4150 for 1977 Soil Insect Control.

DISTRICT 1

Data for District 1 are presented in Tables 5 and 6. A summary of cultural practices applied may be found in Table 4.

This site was characterized by below normal rainfall; therefore, grain yields were considerably below normal (see Table 2).

The average yield from a harvest stand of 17,800 plants per acre was 62 bushels, down 69 bushels from the 1976 average. Hybrid yields ranged from 33 to 91 bushels per acre. The average stand loss for the hybrids was slightly more than the 15% allowance made at planting time. Stand loss for individual hybrids ranged from 3% to 45%, indicating that a considerable difference in seed quality and seedling vigor existed.

Root lodging, averaged over all hybrids, was 7.2% and the range was from a low of 0% to a high of 38.7%. Stalk lodging averaged 5.9% and ranged from 0 to 9.4%.

Weeds were not a problem during the growing season.

For the most reliable results, hybrids that have proven their potential over two or three growing seasons should be held with higher regard than those for which only one season's data are available. Such information is found in Tables 6, 7, 9, and 10.

DISTRICT 2

Data on agronomic performance of hybrids evaluated at this site were limited to the information presented in Table 7, which is the summary of all hybrids evaluated over a three-year period ending in 1976. Because of extreme drought at this site in 1977, which followed a drought in 1976 and a dry winter in which soil moisture was not replenished, the plots produced no grain in 1977; in fact all plants died during the period July 20 to August 1. See Table 3 for rainfall received.

For the most reliable results, hybrids that have proven their potential over a two- or three-year period should be considered before those having only one year of performance data available. Such information is presented in Tables 6, 7, 9, and 10.

DISTRICT 3

Data on the performance of hybrids evaluated at this location are presented in Tables 8 and 9.

The site was characterized by below normal rainfall during the 1977 growing season (see Table 3), but distribution was fairly good, thus providing respectable yields.

The average yield was 92 bushels per acre from a stand of 18,800 plants. The yield range for individual hybrids was from 58 to 118 bushels per acre. This is an increase of approximately 9 bushels over the 1976 average yield.

Root and stalk lodging were minimal at this site, ranging from 0% to 7.1% and 0% to 9.4%, respectively.

Weeds were not a factor in determining the final yield in 1977.

The most reliable results may be obtained from the use of hybrids that have proven their potential over a two- or three-year period. Such information is available in Tables 6, 7, 9, and 10.

SUMMARY OF NORTHERN LOCATIONS

The average performance of hybrids evaluated at the John Jones farm near Tarkio, Missouri (Atchison County) and the Lynn Douglas farm near Edina, Missouri (Knox County) is presented in Table 10. These data supply information from two locations, and therefore the inferences that may be drawn regarding the superiority or inferiority of a hybrid are more reliable than those drawn from the data in Tables 5 and 8. In reliability, these data (Table 10) are comparable to the 2-year averages presented in Tables 6, 7, and 9.

DISTRICT 4

Data for District 4 are presented in Tables 11 and 12. A summary of cultural practices is presented in Table 4.

This site was characterized by below normal precipitation during part of the 1977 growing season (see Table 2), however, the effect was alleviated to a large degree by some precipitation during critical periods of the corn growth cycle.

The average yield from a harvest stand of 17,000 plants was 110 bushels per acre, up 19 bushels from the 1976 average yield. Individual hybrid stands ranged from 10,900 to 20,100 plants per acre (49% to 6% losses, respectively, when compared to the population at planting time). This extensive loss by some hybrids indicates considerable differences existed in seed quality and seedling vigor among hybrids evaluated in 1977.

Stalk lodging ranged from 0.4 to 32.0% for individual hybrids. The average for all hybrids was 7.1%, indicating that many of the hybrids were influenced by significant amounts of lodging. Root lodging was important also, ranging from 0% to 58.4% and averaging 16.9% over all hybrids. These data emphasize the wide differences that exist among today's corn hybrids with respect to their response to insects and diseases that are harbingers of lodging problems.

Weeds were not a significant factor in determining 1977 grain yields.

For more reliable results, hybrids that have proven their potential over a two- or three-year period should be considered. Such information is found in Tables 12, 14, and 15.

DISTRICT 5

Data from District 5 are presented in Tables 13 and 14.

The average acre yield of the hybrids evaluated was 143 bushels, up 100 bushels from the 1976 yield. The range was from 115 to 176 bushels per acre. This was 7 bushels more than the record 1973 yield obtained from the evaluation plots at the Agronomy Research Center-Bradford Farm.

Total precipitation during the growing season in central Missouri was below normal, but good seasonal distribution allowed optimum production by early planted corn.

Stalk and root lodging were not important in these plots in 1977, likely because of the early harvest that was made (see Table 13 for harvest and planting dates) since European cornborer infestation was very heavy.

Weeds were not important in determining the 1977 yields. The most serious weed was yellow nutsedge, but it was controlled effectively with a combination of timely herbicide application and manual labor.

The most reliable results may be obtained from the use of hybrids that have proven their potential over a two- or three-year period. Such information is available in Tables 12, 14, and 15.

SUMMARY OF CENTRAL LOCATIONS

The average performance of hybrids evaluated at the Holton Eschenbach farm near Norborne, Missouri (Carroll County) and the Agronomy Research Center-Bradford Farm near Columbia, Missouri (Boone County) is presented in Table 15. This table supplies information from two locations, and therefore the inferences drawn from it are more reliable than those drawn from the one-year data in Tables 11 and 13.

DISTRICT 6

No evaluation plots were located in this district during 1977.

DISTRICT 7

An irrigation trial was located in this district at the Southwest Center near Mt. Vernon, Missouri (Lawrence County). The agronomic performance data for the period 1974, 1975, and 1977 are presented in Table 23. The 1977 yields are presented in Table 22.

DISTRICT 8

Since less than one percent of the land in this district is planted to corn, no hybrid evaluation trials were conducted within its boundaries.

DISTRICT 9

Data for this area are presented in Tables 16 through 19. Hybrids were evaluated at two locations in 1977 -- the Delta Center near Portageville (Pemiscot County) and the C. G. Scott farm near Matthews (New Madrid County). Forty-one of the 90 hybrids were lost because of cultural management problems after planting at the Delta Center, thus only 49 entries are presented in Table 16. The performance record for all 90 hybrids at the C. G. Scott farm is presented in Table 18.

Delta Center. Average yield from the 49 hybrids was 114 bushels, and the range was from 72 to 148 bushels per acre. Root lodging averaged less than 1% and ranged from 0% to 20.1%, while the stalk lodging averaged 8.0% and ranged from 0% to 33.2%.

Stand loss averaged 18%, or 3% more than allowed for at planting time. Individual hybrids ranged from 4% to 31% stand loss, indicating considerable variance in seed quality and/or seedling vigor.

Weeds were not important in determining the final grain yield at this site.

C. G. Scott Farm. Average yield from the 90 hybrids was 148 bushels per acre and the range was from 107 to 180 bushels. Root and stalk lodging respectively were: average -- 6.5% and 2.5%; range -- 0% to 38.6% and 0% to 20.5%, pointing out that there is a significant difference in the response of the hybrids being produced and marketed today to these characteristics.

Stand loss averaged 10%, well within the 15% allowance made at planting time by overplanting. Individual hybrids ranged from less than 0.5% to 35% loss, indicating considerable variance in seed quality and/or seedling vigor.

Weeds were not important in determining grain yields at this site.

Although these trials were not considered irrigation trials, both sites received supplemental irrigation during the season. Because of soil type and accessibility of water, irrigation is a common practice on corn in the Bootheel.

IRRIGATION EXPERIMENTS

Irrigation experiments were conducted at two locations to assess hybrid performance independent of stress caused by irregular precipitation patterns. These experiments were located at two of the Agricultural Experiment Station Research Centers -- the Claypan Research Center near McCredie in Callaway County and the Southwest Center near Mt. Vernon in Lawrence County. Cultural practices applied to the 1977 irrigation experiments are listed in Table 4.

Figures 2 and 3, respectively, present the inches of accumulated precipitation (includes rainfall and water applied in several irrigations) at McCredie and the Southwest Center. The cross-hatched area represents optimum soil moisture. Accumulated precipitation above this area represents excess moisture and runoff. The precipitation line, which is usually below the cross-hatched area, indicates possible soil moisture deficits and the need for supplemental irrigation.

At McCredie a 1.6" irrigation was made May 31 to bring the soil to near field capacity (in using this chart, one assumes that the soil is at field capacity June 1).

McCredie. The acre yield ranged from a high of 178 bushels to a low of 118 bushels per acre. The experiment average was 149 bushels. Root lodging and stalk lodging, respectively, ranged from 0% to 18.9% and 0.4% to 12.4%.

Performance data for this site are presented in Tables 20, 21, and 24.

Southwest Center. Acre yield ranged from a high of 181 to a low of 96 bushels per acre. The experiment average was 143 bushels. Root lodging was not significant for any of the hybrids. Stalk lodging averaged 7.8% for all hybrids and ranged from 1.9% to 20.4% for individual hybrids.

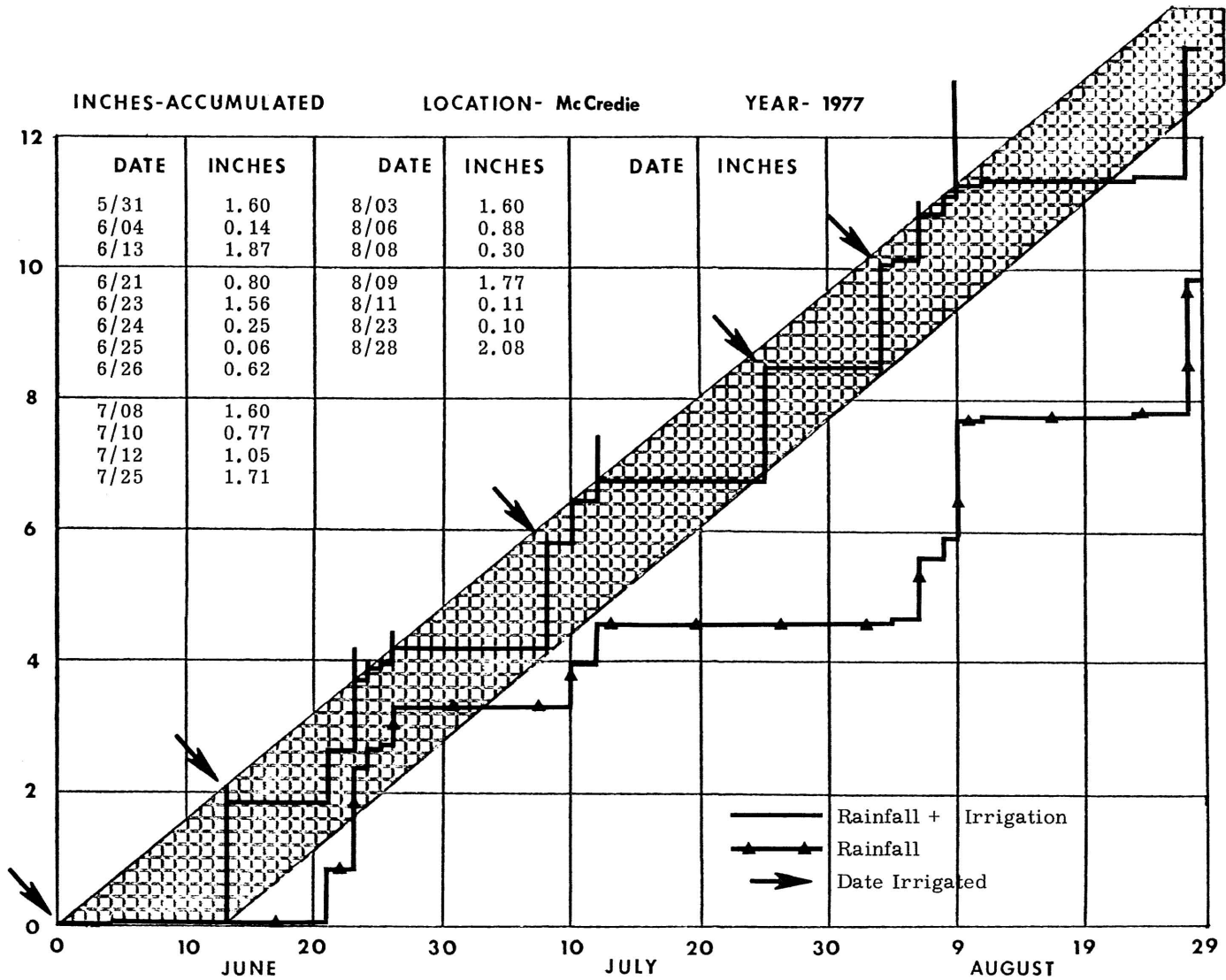


Figure 2. Precipitation pattern and irrigation schedule for 1977.

INCHES-ACCUMULATED

LOCATION- Southwest Center

YEAR- 1977

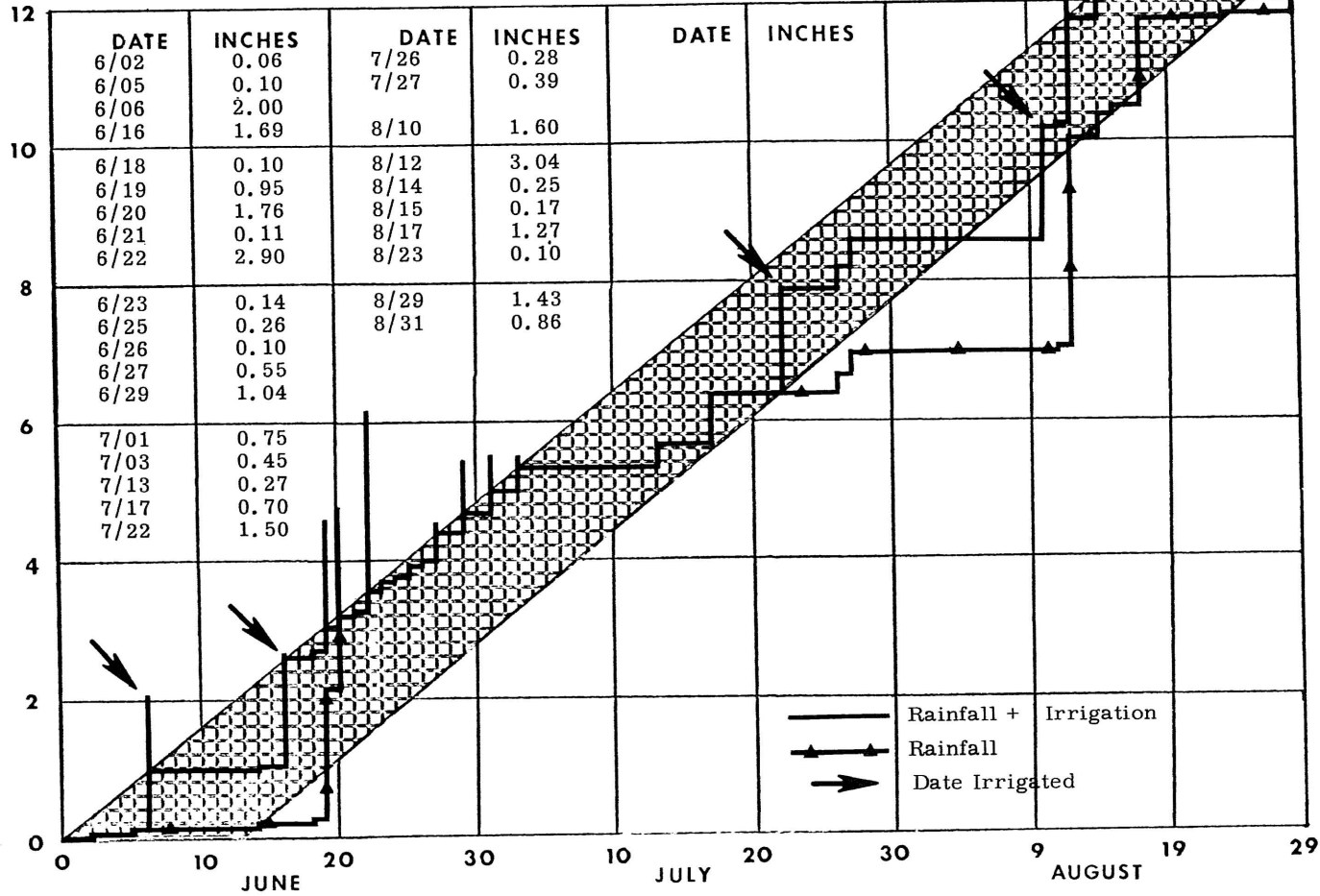


Figure 3. Precipitation pattern and irrigation schedule for 1977.

TABLE 5. PERFORMANCE OF CORN HYBRIDS EVALUATED ON THE JOHN JONES FARM (BOB VETTE OPERATOR) NEAR TARKIO, MISSOURI (ATCHISON COUNTY) DURING 1977.
PLANTED: 19 APRIL 1977. HARVESTED: 17 OCTOBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP I MATURITY							
ACCO UC 6601(SX)**	71.2	18.2	18500	9.8	2.2	1.1	3.0
BO-JAC X35(SX)	70.8	17.8	17000	1.9	4.2	3.9	2.5
BO-JAC X37(SX)	76.7	17.3	17100	10.3	5.1	1.7	3.1
BO-JAC X33(SX)	66.2	18.2	18300	11.6	5.5	6.6	3.3
BO-JAC X347(SX)	66.5	17.7	19500	1.0	3.0	2.1	3.1
BO-JAC X193(SX)	69.3	17.9	19700	2.1	9.7	1.5	2.6
BO-JAC X847(SX)	65.4	18.7	18300	3.9	2.2	1.1	3.3
USS AGRI-CHEM. USS 055CA(SX)	63.4	18.6	20300	9.1	4.9	3.0	3.3
USS AGRI-CHEM. USS 0010(SX)	61.5	18.1	16800	2.4	7.9	1.7	2.8
GOLDEN HARVEST H-2500(SX)	Poor Stand	19.0	11800	5.3	6.7	4.2	3.3
FUNK G-4507(SX)**	41.7	18.7	17900	5.6	4.5	1.7	3.1
FUNK G-4503(SX)**	82.1	18.7	17100	4.5	10.9	3.1	3.0
FUNK G-4520(SX)	69.9	19.3	14700	0.8	6.1	3.2	2.8
FUNK G-4553(3X)	70.9	19.3	19000	6.6	7.0	1.6	3.0
FUNK G-4574(3X)	54.7	18.9	18000	1.7	6.2	2.8	3.5
FUNK G-4449(SX)	78.1	18.3	17800	19.2	7.2	1.1	2.8
FRONTIER SX200(SX)	66.0	18.0	18500	9.3	12.0	0.5	2.5
FRONTIER SX211(SX)	58.8	18.0	17800	7.4	4.0	8.0	3.1
SUPERCROST 4242(SPX)	58.7	17.8	15600	5.1	8.4	3.8	2.8
SUPERCROST 5440A(SPX)	48.0	19.0	18300	9.5	5.3	2.9	3.1
SUPERCROST 4250(SPX)	64.4	18.5	15700	3.2	4.5	0.6	3.1
M.F.A 5001(SX)	57.6	18.1	16500	6.0	9.9	2.4	3.5
NC+ 59(SX)	73.8	18.6	17000	8.3	3.7	0.6	3.3
PFISTER 77(SX)	65.8	21.1	18100	1.1	6.6	2.8	3.1
PFISTER 75(SX)	57.5	18.6	18300	12.7	8.3	2.2	3.1
PFISTER 70(SX)	63.3	19.9	19100	38.7	3.1	1.0	3.0
PFISTER 68(SX)	67.8	18.3	19300	5.6	3.6	1.6	3.0
PFISTER 65(SX)	70.5	18.7	17600	1.7	5.1	0.5	2.8
PIONEER 3388(SPX)**	81.7	19.2	18900	24.5	0.5	2.2	3.0
PIONEER 3541(SX)	71.9	17.5	16700	8.9	6.1	2.3	3.1
FERRY-MORSE HULTING X880(SX)	58.1	18.5	20500	9.4	2.4	1.6	3.1
GROUP II MATURITY							
ACCO UC 8951(SX)	45.4	18.9	18700	7.4	5.7	1.6	3.6
ASGROW RX100(SX)**	71.7	21.0	19100	4.3	8.0	2.1	3.0
ASGROW RX92(SX)**	56.9	19.8	16900	0.6	4.8	4.2	3.1
ASGROW RX90(SX)	67.8	18.6	18300	12.4	4.5	2.1	3.3
BO-JAC X56(SX)	61.2	18.5	19200	18.2	5.8	1.5	3.5
BO-JAC X56B(SPX)	57.3	19.3	17900	13.0	4.6	1.0	3.5
CARGILL 949(SX)**	59.5	18.4	18300	10.0	5.0	2.3	3.3
CARGILL 920(SX)**	85.1	19.1	19100	2.0	10.4	3.1	3.0
CARGILL 966(SX)	64.6	19.1	17700	2.3	3.4	0.5	3.3
CO-OP 2300(SX)	56.7	18.6	18200	1.7	4.0	1.2	3.3
DEKALB XL 81(SX)**	70.3	20.1	18500	3.7	2.2	0.0	3.1
DEKALB XL 72B(SX)**	68.1	20.3	15900	6.2	2.4	3.1	3.0
USS AGRI-CHEM. USS 1010(SX)	54.8	18.7	18500	6.6	3.2	3.3	3.3
GOLDEN HARVEST H-2600(SX)**	61.3	19.1	18600	7.8	3.2	1.1	3.3
GOLDEN HARVEST H-2650(SX)**	73.9	20.0	17000	5.7	5.4	2.4	3.0
GOLDEN HARVEST H-2615(SPX)	50.7	19.7	13700	0.6	7.0	4.4	3.1
RING AROUND RA1501(SX)	54.4	18.6	19700	11.5	2.7	5.7	3.5
RING AROUND RA35C2(3X)	47.8	19.3	18800	0.5	7.7	0.5	3.0
FEDERAL FX39(SX)	61.4	18.7	14800	9.8	6.0	5.3	3.3
FONTANELLE 58C5C(SX)	53.9	18.5	18400	5.1	6.1	1.1	3.3
FONTANELLE 5905C(SX)	59.5	18.2	18000	13.8	2.8	3.4	3.6
FUNK G-4628(SX)**	67.9	20.2	19100	3.8	3.7	2.1	3.0
FUNK G-4611(SX)	55.9	18.5	19200	2.2	3.5	2.2	3.1
FRONTIER SX233(SX)	63.2	19.3	17300	8.8	11.2	5.4	3.3
FRONTIER SX244(SX)	62.9	19.2	19200	21.0	9.5	2.6	3.1
FRONTIER SX234(SX)	70.4	18.5	18200	13.7	4.5	2.2	3.3
SUPERCROST 585(SX)**	48.4	17.7	18400	5.7	10.5	1.4	2.6
SUPERCROST 5440(SX)	57.4	18.8	16900	10.9	2.3	3.7	3.3
SUPERCROST 585A(SPX)	79.5	20.2	18300	5.0	4.4	1.0	3.1
CORN KING 1357(3X)	48.1	18.9	17400	16.4	4.6	3.4	3.1
HAPPEL MS-72(SX)	69.4	20.0	17900	6.3	4.8	5.0	3.0
HAPPEL 3361-A(3X)	53.7	18.7	18200	6.6	10.1	3.3	3.1
HAPPEL MS-79(3X)	61.4	18.8	14400	6.5	6.2	7.2	3.1
LYNK LX4510(SX)	71.4	20.6	16400	0.6	3.6	3.3	3.0
LYNK LX4370(SX)	46.9	18.9	15100	9.8	6.9	3.1	3.5
LYNK LX4330(SX)	55.5	18.8	16200	6.7	3.8	5.0	3.5
LEWIS X78B(SX)	76.8	20.1	18700	10.3	2.7	3.1	3.0
LEWIS X62B(SX)	55.8	19.0	17200	4.6	5.8	5.3	3.1
LEWIS EXP 77B(SX)	73.4	18.7	17300	6.4	4.1	2.3	3.1

TABLE 5. (CONTINUED).

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP II MATURITY							
LEWIS EXP X110B(SX)	64.3	19.8	19400	22.3	5.7	3.6	3.3
LEWIS EXP 247B(SX)	72.8	18.9	18600	10.4	9.3	4.3	3.3
LEWIS EXP X106B(SX)	58.5	20.0	17200	1.8	4.2	2.4	3.1
M.F.A V-16(SX)**	68.2	20.3	18700	2.8	3.2	1.1	3.1
M.F.A 6041(SPX)**	69.0	18.9	14600	4.5	8.8	0.6	3.0
M.F.A 5802(SX)**	34.0	18.4	15600	3.4	3.1	4.0	3.5
M.F.A 5903(SPX)	54.4	19.0	18500	3.8	8.2	1.0	3.5
MC ALLISTER 7300(SX)	57.1	18.7	19500	6.9	2.0	1.5	3.3
MC CURDY MSX70(SX)	59.3	19.4	18300	3.1	3.4	1.1	3.1
MC CURDY MSX84(SX)	71.8	19.1	18700	3.2	13.0	1.6	3.1
NC+ 85(SX)	81.1	20.4	18300	11.6	6.1	5.5	3.0
NC+ 76(3X)	62.0	19.0	18200	9.1	7.9	3.4	3.1
NCRTHRUP-KING PX-79(SX)	57.4	18.3	20800	15.7	3.2	1.9	3.5
NORTHROP-KING PX-74(SX)**	47.3	19.4	19000	12.9	6.5	1.6	3.6
NCRTHRUP-KING PX-675(3X)**	50.2	18.8	19600	24.5	2.5	2.5	3.1
O'S GOLD SX5500(SX)**	56.5	20.2	18500	0.4	5.7	5.9	3.0
O'S GOLD SX5500A(SX)**	64.0	19.0	16200	1.9	5.1	2.4	3.5
O'S GOLD SX5353(SX)	76.1	18.9	19100	11.1	3.1	4.7	3.3
O'S GOLD SX5255(SX)	66.8	18.3	18100	13.4	7.4	2.3	3.5
O'S GOLD SX5500AB(SX)	56.9	18.8	16200	2.5	7.5	1.2	3.0
P-A-G SX98(SX)**	65.1	19.9	19000	3.7	5.9	1.0	3.1
P-A-G 314(SX)	75.1	18.8	17200	1.2	9.3	1.7	3.1
PIONEER 3369A(SX)**	52.4	18.8	17000	3.1	12.6	4.2	3.1
PIONEER 3219(DX)**	59.4	18.8	17100	0.5	4.1	1.1	3.0
PIONEER 3184(SX)	78.1	20.7	17400	0.5	4.9	1.3	3.3
PIONEER 3183(SX)	91.3	20.8	17200	2.8	5.8	3.0	3.5
PIONEER 3360(SX)	56.7	18.6	17800	5.1	9.2	2.8	3.1
TEKSEED SPX34(SX)	49.8	18.3	17600	7.4	3.9	4.0	3.1
TEKSEED SPX36(SX)	63.8	18.7	19700	9.4	2.5	2.7	3.5
TEKSEED SPX388(3X)	58.5	18.8	18800	16.6	8.9	3.9	3.1
TEKSEED SPX355(3X)	61.3	18.4	19600	12.0	4.2	2.1	3.3
TEKSEED SPX77(SX)	64.1	15.4	18100	6.7	10.2	5.1	3.1
TROJAN TXS119(SX)**	76.1	20.5	17100	2.3	4.1	2.3	3.1
TROJAN TX119A(3X)**	62.6	19.8	18900	6.0	10.2	3.2	3.1
TROJAN TXS115A(SX)**	38.5	19.1	18600	11.0	1.0	2.1	3.3
TROJAN TXS117A(SX)	65.6	19.2	16600	8.5	4.2	3.0	3.1
WEATHER MASTER EXP12A(SX)	62.8	18.5	17900	1.8	5.2	1.2	3.0
WEATHER MASTER EPX888(SX)	71.2	18.8	18200	9.3	5.6	2.2	3.1
WEATHER MASTER EPX888C(SX)	50.0	18.9	18000	7.3	7.8	2.2	3.3
(M017 X B73)(SX)	55.9	18.6	18300	0.0	7.4	3.4	3.3
(M017 X N28)(SX)	63.7	21.0	18300	4.8	7.6	2.2	3.3
(N28 X FR14A)(SX)	53.9	19.3	15900	0.6	4.3	3.8	2.8
(M017 X 805W)FR802W(3X)	47.6	17.6	17500	12.1	8.7	1.1	3.6
US 13(DX)	33.1	19.0	18300	5.7	23.4	4.3	3.3
WALTHER W271(DX)	45.5	18.8	18100	11.1	4.4	1.0	3.1
WALTHER W34(3X)	60.0	19.2	18300	6.9	7.7	3.2	3.3
WALTHER W80(DX)	47.8	18.2	17500	7.1	7.5	1.1	3.1
WALTHER W239(DX)	56.4	18.3	19900	12.3	4.6	2.6	3.1
FERRY-MORSE HULTING X980(SX)	64.4	20.6	18500	5.1	3.3	1.6	3.3
FERRY-MORSE HULTINGX8800(3X)	43.7	19.1	17800	5.8	1.6	3.9	3.1
WILSON 1800(SX)	58.4	18.8	19100	1.1	9.0	0.5	3.3
WILSON 1040(SX)	71.2	18.8	16600	9.9	10.9	3.8	3.1
GROUP III MATURITY							
BO-JAC X7L(SX)	75.4	21.0	19600	2.5	6.2	1.5	3.1
BC-JAC X83(SX)**	70.4	19.3	16500	7.6	5.3	0.6	3.0
CO-OP 2318(SX)	78.1	20.0	17500	5.4	4.2	1.6	3.0
FEDERAL FX59(SX)	79.0	20.2	16400	0.0	6.2	4.2	3.1
FONTANELLE 660SC(SX)	65.3	20.3	17600	0.6	5.8	4.8	3.1
FUNK G-4747W(SX)*	61.0	20.3	17300	16.1	6.5	0.5	3.8
MC CURDY MSX88(SX)	71.8	19.8	18900	4.1	4.7	0.5	3.1
PIONEER 3147(SPX)	70.5	21.7	18600	13.5	11.4	2.2	3.8
TEKSEED SPX90(SX)	82.1	19.6	17000	0.0	6.6	4.1	2.8
TROJAN T1210(SX)	39.3	19.0	16900	0.0	6.4	3.8	3.1
AVERAGE	62.5	19.1	17861	7.2	5.9	2.6	3.2

LSD at 5% LEVEL IS 21.2 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 CF 20 TIMES GROWN.
LSD AT 20% LEVEL IS 13.5 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 CF 20 TIMES GROWN.

*WHITE HYBRID

**WIDELY GROWN HYBRIDS.

TABLE 6. PERFORMANCE RECORD OF HYBRIDS EVALUATED NEAR TARKIO, MISSOURI (ATCHISON COUNTY) DURING THE 2-YEAR PERIOD 1976-77 AND THE 3-YEAR PERIOD 1975-77.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE	LOADING		DROPPED	EAR	ACRE	LOADING		DROPPED	EAR
	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)
GROUP 1 MATURITY										
PIONEER 3541(SX)	96.4	4.4	4.1	1.1	2.9	-	-	-	-	-
PIONEER 3388(SPX)**	102.2	12.3	1.1	1.1	3.1	110.3	8.2	1.6	0.7	3.3
NC+ 59(SX)	117.4	4.9	2.3	0.3	3.4	127.6	3.3	1.8	0.2	3.4
M.F.A 5001(SX)	95.7	3.0	5.4	1.2	3.8	112.8	2.0	4.3	0.8	3.7
SUPERCROST 4350(SPX)	104.3	2.3	3.8	0.3	3.3	-	-	-	-	-
SUPERCROST 4242(SPX)	98.5	2.6	7.1	1.9	3.1	107.2	1.7	7.5	1.3	3.1
FUNK G-4520(SX)	101.0	0.4	5.4	1.6	3.0	-	-	-	-	-
FUNK G-4503(SX)**	113.4	2.3	5.7	1.6	3.1	123.3	1.5	5.7	1.0	3.2
FUNK G-4507(SX)**	91.9	2.8	3.0	0.8	3.3	110.9	2.3	3.1	0.6	3.4
USS AGRI-CHEM. USS 0550A(SX)	97.9	4.6	3.8	1.5	3.4	114.0	3.4	3.0	1.0	3.4
BD-JAC X33(SX)	99.3	5.8	3.0	3.3	3.5	-	-	-	-	-
BD-JAC X37(SX)	107.0	5.4	3.3	0.8	3.2	118.9	3.6	2.2	0.6	3.2
BD-JAC X35(SX)	101.6	0.9	3.5	1.9	2.8	113.2	0.8	2.9	1.3	3.0
ACCC UC 6601(SX)**	100.0	4.9	1.3	0.6	3.0	113.9	3.3	1.1	0.4	3.3
GROUP 2 MATURITY										
WILSON 1040(SX)	104.0	4.9	5.7	1.9	3.3	115.8	3.3	3.8	1.4	3.4
WILSON 1800(SX)	100.0	1.1	5.3	0.3	3.4	110.6	0.7	3.5	0.2	3.4
WALTHER W239(DX)	88.5	6.1	6.5	1.3	3.2	-	-	-	-	-
WALTHER W80(DX)	77.2	3.6	4.0	0.6	3.1	-	-	-	-	-
WALTHER W271(DX)	88.8	5.6	3.1	0.5	3.1	86.6	3.7	3.2	0.3	2.9
US 13(DX)	62.9	2.8	13.4	2.1	3.6	86.7	2.0	9.5	1.4	3.4
WEATHER MASTER EPX888(SX)	102.3	4.6	3.9	1.1	3.6	-	-	-	-	-
WEATHER MASTER EXP12A(SX)	97.3	0.9	2.8	0.6	3.3	-	-	-	-	-
TROJAN TXS117A(SX)	105.6	5.1	3.4	1.5	3.3	115.9	3.4	3.2	1.0	3.2
TROJAN TXS115A(SX)**	98.9	5.8	0.9	1.1	3.4	120.1	3.8	1.3	0.7	3.4
TROJAN TX119A(3X)**	95.1	3.0	5.1	1.6	3.3	-	-	-	-	-
TROJAN TXS119(SX)**	105.6	1.1	2.1	1.3	3.3	114.7	0.8	1.7	0.9	3.4
TEKSEED SPX388(3X)	106.0	8.3	5.4	1.9	3.3	-	-	-	-	-
TEKSEED SPX36(SX)	90.6	4.7	1.5	1.3	3.5	-	-	-	-	-
TEKSEED SPX34(SX)	102.6	3.7	2.4	2.0	3.4	-	-	-	-	-
PIONEER 3183(SX)	115.6	1.7	3.8	1.5	3.8	-	-	-	-	-
PIONEER 3184(SX)	111.1	0.3	2.7	0.7	3.6	121.9	0.2	2.0	0.4	3.5
PIONEER 3219(DX)**	87.9	0.3	2.8	0.6	3.1	111.7	0.2	2.8	0.4	3.2
PIONEER 3369A(SX)**	95.1	1.6	7.4	2.1	3.3	105.0	1.2	5.1	1.4	3.4
P-A-G 314(SX)	107.4	0.6	6.1	0.8	3.3	-	-	-	-	-
P-A-G SX98(SX)**	102.0	1.8	3.2	0.5	3.3	117.6	1.2	2.3	0.3	3.5
C'S GOLD SX5500A(SX)**	103.6	0.9	3.0	1.2	3.5	114.6	0.6	2.9	0.8	3.5
O'S GOLD SX5500(SX)**	93.0	0.2	3.4	2.9	3.1	106.4	0.1	2.5	2.0	3.1
NORTHRUP-KING PX-675(3X)**	96.2	12.3	1.3	1.3	3.6	104.4	8.2	1.6	0.8	3.5
NORTHRUP-KING PX-74(SX)**	92.1	6.4	3.5	0.8	3.7	100.3	4.3	2.7	0.5	3.5
NC+ 76(3X)	105.6	4.8	5.6	1.7	3.3	-	-	-	-	-
NC+ 85(SX)	100.2	6.1	3.9	2.8	3.1	109.7	4.0	2.7	1.8	3.3
MC CURDY MSX84(SX)	117.5	2.1	6.8	0.8	3.3	-	-	-	-	-
MC CURDY MSX70(SX)	94.1	1.6	2.1	0.6	3.4	113.2	1.0	1.6	0.4	3.4
MC ALLISTER 7300(SX)	103.1	3.7	2.2	0.8	3.4	118.5	2.5	1.6	0.5	3.4
M.F.A 5802(SX)**	92.4	2.4	2.3	2.0	3.8	-	-	-	-	-
M.F.A 6041(SPX)**	92.1	2.3	5.8	0.3	3.0	104.3	1.8	4.7	0.2	3.3
M.F.A V-16(SX)**	102.0	1.4	1.6	0.6	3.1	113.7	0.9	1.1	0.4	3.3
LEWIS X62B(SX)	104.6	2.3	4.1	2.6	3.6	114.1	1.5	2.8	1.8	3.5
LEWIS X78B(SX)	100.4	5.1	1.6	1.6	3.1	111.2	3.4	1.4	1.0	3.3
LYNK LX4330(SX)	98.9	3.3	2.4	2.5	3.5	-	-	-	-	-
LYNK LX4370(SX)	89.8	4.9	3.4	1.6	3.6	-	-	-	-	-
LYNK LX4510(SX)	98.8	0.3	2.3	1.6	3.3	-	-	-	-	-
HAPPEL 3361-A(3X)	93.5	3.3	5.1	1.6	3.4	-	-	-	-	-
HAPPEL MS-72(SX)	99.6	3.1	2.6	2.5	3.3	111.9	2.1	2.4	1.7	3.2
SUPERCROST 5440(SX)	100.1	5.4	1.1	1.8	3.4	112.1	3.6	1.5	1.2	3.4
SUPERCROST S85(SX)**	86.5	2.8	5.5	0.7	3.1	93.3	1.9	3.9	0.5	3.2
FUNK G-4611(SX)	92.3	1.1	2.4	1.1	3.3	-	-	-	-	-
FUNK G-4628(SX)**	105.8	1.9	2.1	1.1	3.1	119.6	1.3	1.4	0.7	3.2
FONTANELLE 590SC(SX)	94.2	6.9	1.9	1.7	3.6	102.4	4.6	1.6	1.1	3.4
RING AROUND RA3502(3X)	87.0	0.3	5.4	0.3	3.3	-	-	-	-	-
RING AROUND RA1501(SX)	98.4	5.8	2.4	2.8	3.6	-	-	-	-	-
GOLDEN HARVEST H-2650(SX)**	100.6	2.8	3.0	1.2	3.3	113.9	1.9	2.2	0.8	3.3
USS AGRI-CHEM. USS 1010(SX)	104.9	3.6	1.6	1.6	3.4	112.7	2.4	3.2	1.1	3.5
DEKALB XL 72B(SX)**	105.8	3.1	1.9	1.6	3.1	-	-	-	-	-
DEKALB XL 81(SX)**	99.3	1.8	1.6	0.0	3.1	113.5	1.4	1.6	0.0	3.2
CO-OP 2300(SX)	97.3	2.2	2.0	0.6	3.5	101.2	1.5	1.7	0.4	3.4
CARGILL 920(SX)**	114.1	1.0	5.6	1.6	3.0	-	-	-	-	-
CARGILL 949(SX)**	106.9	5.0	4.1	1.1	3.4	116.9	3.3	2.8	0.8	3.3

TABLE 6. CONT.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LODGING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LODGING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
BD-JAC X56(SX)	109.2	9.1	3.9	0.8	3.5	117.0	6.1	3.0	0.5	3.4
ASGR0W RX92(SX)**	88.9	0.5	2.7	2.1	3.3	-	-	-	-	-
GROUP 3 MATURITY										
TEKSEED SPX90(SX)	93.9	0.0	3.8	2.1	3.1	-	-	-	-	-
FUNK G-4747*(SX)*	101.5	8.1	5.6	0.3	4.3	115.1	5.4	4.5	0.2	4.0
FUNTANELLE 66CSC(SX)	101.4	0.3	2.9	2.4	3.3	117.7	0.7	2.8	1.6	3.4
FEDERAL FX59(SX)	105.0	0.0	3.6	2.1	3.1	100.6	0.2	3.1	1.4	2.9
CO-OP 2318(SX)	107.1	2.7	2.3	0.8	3.3	111.7	1.8	1.7	0.5	3.3
BD-JAC X83(SX)**	105.3	3.8	3.1	0.3	3.3	125.6	3.1	2.4	0.2	3.4
AVERAGE	99.4	3.4	3.6	1.3	3.3	111.5	2.5	2.8	0.8	3.3

*WHITE HYBRID.

**WIDELY GROWN HYBRID

TABLE 7. PERFORMANCE RECORD OF HYBRIDS EVALUATED NEAR SPICKARD, MISSOURI (GRUNDY COUNTY) DURING THE 2-YEAR PERIOD 1975-76.
NOTE: DROUGHT IN 1977 KILLED THE CORN PLANTS AT THIS SITE.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED EARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
GROUP 1 MATURITY (2-YEAR AVERAGE)							
ACCO UC6601(SX)	66.2	24.0	15700	0.3	11.8	0.6	3.3
BURRUS BX20(SX)	80.8	25.3	16950	0.0	1.1	0.4	3.5
BO-JAC X35(SPX)	64.8	24.8	15750	5.6	5.3	0.0	3.7
BO-JAC X37(SX)	65.1	23.8	16800	0.0	0.8	0.0	3.5
HO-JAC X56(SX)	71.1	26.0	15850	0.9	2.6	0.3	4.1
USS C555(3X)	60.1	23.8	16900	1.2	2.9	0.9	3.7
USS 0555A(3X)	67.2	25.3	14900	0.0	4.5	0.6	3.8
FUNKS G-4507(SX)	60.6	25.6	15900	0.3	4.1	0.6	3.6
FUNK G-4503(SX)	63.3	25.3	14850	1.9	11.7	0.3	3.6
SUPERCRCST 4242(SPX)	68.8	24.4	15800	0.5	5.4	0.0	3.8
M-F-A 5001(SX)	67.6	22.8	15700	0.3	5.8	0.8	3.6
PIONEER 3388(SPX)	77.2	23.9	16150	0.5	2.1	0.0	3.3
PIONEER 3517(SPX)	61.6	22.1	16800	0.8	1.5	0.3	2.8
HULTING X770(SX)	69.1	23.4	16450	0.0	10.1	0.0	3.6
GROUP 2 MATURITY (2-YEAR AVERAGE)							
ASGRCW PX100(SX)	63.4	27.2	16400	2.9	3.9	0.0	3.8
BURRUS BX25(SX)	59.3	27.3	16250	0.0	4.1	1.0	3.5
BO-JAC X7L(SX)	66.8	27.5	16050	0.0	6.7	0.3	3.5
BO-JAC X83(SPX)	63.6	27.1	15150	0.3	4.8	0.3	3.4
CARGILL 949(SX)	67.1	26.9	15300	0.6	1.4	0.8	3.8
CARGILL 920	71.0	25.0	15650	0.3	7.1	0.3	3.8
DEKALB XL81(SX)**	70.6	25.4	15500	2.4	14.3	0.5	3.5
USS AG CHEM 1010(SX)	64.9	25.7	15950	2.1	4.8	0.3	3.8
USS AG CHEM 1515(SX)	67.0	28.1	17800	0.0	1.0	0.0	3.3
FUNKS G-4628(SX)	65.5	26.0	14800	0.0	3.4	0.0	3.2
SUPERCROST 585(SX)**	67.1	27.2	15900	0.2	5.6	0.0	3.3
SUPERCROST 7772(SPX)	58.8	25.6	14850	5.4	12.4	0.3	3.6
SUPERCROST 5440(SX)	61.3	26.1	15050	0.0	3.8	0.3	3.9
HAPPEL MS-72(SX)	63.3	27.2	15400	0.0	7.4	0.0	3.5
HAPPEL H-37(SPX)	59.6	25.2	13400	0.4	3.8	0.0	3.6
LEWIS X78B(SX)	62.9	26.3	15750	0.0	11.0	0.3	3.4
LEWIS X62B(SX)	66.3	25.8	16000	0.8	2.4	0.8	3.9
M-F-A V12(SX)**	55.1	25.8	13050	0.3	3.6	0.3	3.4
M-F-A V16(SX)**	68.7	25.4	14650	0.3	5.6	0.0	3.5
MFA 6041(SPX)	70.1	24.1	16450	3.9	5.7	0.3	3.3
M-F-A 6061(3X)	60.6	24.4	14850	0.0	4.1	0.5	3.4
MORTON 6700(SX)	69.0	27.1	16000	0.0	7.8	0.3	3.6
AMERICANA 3200(SX)	65.9	25.8	16250	0.3	2.9	0.4	4.1
MCCURDY MSX84(SX)	65.5	25.2	16350	0.3	1.3	0.3	3.8
NK PX74(SX)	63.1	26.3	12500	0.0	0.8	0.0	3.8
NK PX76(SX)	65.1	25.4	16350	1.0	12.1	0.0	3.4
N-K PX675(3X)	62.3	25.3	16200	0.3	2.7	1.1	4.0
O'S GOLD SX5500(SX)	65.5	27.9	15950	0.0	2.3	0.3	3.3
C*SGOLDSX5500A(SX)**	66.5	25.8	15150	0.0	2.8	0.0	3.7
PAG SX98(SX)	79.6	26.9	14500	0.0	2.0	0.3	3.5
PIONEER 3369A(SX)**	67.3	24.3	16550	0.3	8.6	0.0	3.4
PIONEER 3219(DX)**	66.9	25.4	17000	0.0	11.1	0.0	3.7
PIONEER 3529(SX)	56.9	24.2	15300	0.0	0.9	0.0	3.3
PIONEER 3184(SX)	65.3	27.5	16500	0.0	3.1	0.3	3.6
TROJAN TXS119(SX)**	61.8	26.4	16650	0.0	6.4	0.5	3.5
TROJAN TXS113(SPX)	64.6	25.1	16100	3.4	2.3	0.3	3.3
TROJAN TXS115A(SX)	62.8	24.6	17500	1.1	1.6	0.6	3.8
TROJAN TXS117A(SX)	66.6	26.8	16450	0.5	5.0	0.8	3.6
US-13(DX)	51.1	25.7	15000	1.1	16.5	0.0	3.8
HULTING X980(SX)	67.5	25.5	15750	0.0	4.0	0.6	3.6
GROUP 3 MATURITY (2-YEAR AVERAGE)							
MCCURDY MSX88(SX)	71.8	25.6	17150	0.3	7.9	0.3	3.5
AVERAGE	65.5	25.6	15779	0.7	5.3	0.3	3.6

**WHITE HYBRID.
***WIDELY GROWN HYBRID.

TABLE 8. PERFORMANCE OF CORN HYBRIDS EVALUATED ON THE LYNN DOUGLAS FARM NEAR EDINA, MISSOURI (KNICK COUNTY) IN 1977.
PLANTED: 18 APRIL 1977. HARVESTED: 28 SEPTEMBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP I MATURITY							
ACCC UC 66G1(SX)**	100.4	22.2	19200	1.6	2.1	1.0	2.8
BURRUS HX20(SX)	81.2	24.4	18100	0.0	2.7	0.0	3.1
BURRUS HX14(SX)	96.7	21.7	17200	0.0	0.5	0.5	3.0
BO-JAC X35(SX)	101.9	22.6	17500	4.6	1.1	0.5	2.8
HC-JAC X37(SX)	106.0	20.0	19100	0.0	0.5	1.0	3.0
BO-JAC X33(SX)	93.3	21.4	19700	0.0	1.0	2.5	3.5
HC-JAC X347(SX)	71.8	23.8	17800	0.5	0.0	0.5	3.0
BO-JAC X193(SX)	87.2	23.1	18900	1.0	2.7	0.0	3.0
BO-JAC X847(SX)	98.1	22.8	19600	0.0	1.5	0.0	3.0
USS AGRI-CHEM. USS 0550A(SX)	93.8	21.9	20000	2.0	0.5	1.0	3.3
USS AGRI-CHEM. USS 0010(SX)	95.0	21.3	19000	0.0	0.5	1.0	2.8
GOLDEN HARVEST H-2500(SX)	82.6	22.2	12800	0.0	0.7	0.7	3.1
FUNK G-4507(SX)**	89.4	24.1	17900	0.5	1.1	0.0	3.3
FUNK G-4503(SX)**	97.4	22.7	17600	0.0	4.7	1.1	3.0
FUNK G-4520(SX)	84.8	23.6	14600	0.0	3.0	0.0	3.0
FUNK G-4553(3X)	118.1	24.0	21100	7.1	0.9	0.0	3.0
FUNK G-4574(3X)	93.6	22.7	19100	0.0	0.5	0.0	3.3
FUNK G-4449(SX)	89.9	24.0	19700	0.5	0.9	0.0	3.0
SUPERCROST 4242(SPX)	93.7	23.0	18000	5.7	2.2	0.5	3.0
SUPERCROST 5440A(SPX)	94.8	25.0	17500	1.1	0.0	0.0	3.1
SUPERCROST 4350(SPX)	97.3	22.6	19200	0.0	1.0	0.5	3.3
HOBLLIT XR441A(SX)	86.4	24.5	18200	0.0	1.7	1.5	3.3
AMERICANA 3500A(SX)	97.7	22.0	20000	0.5	0.5	1.0	3.3
PFISTER 77(SX)	92.4	25.8	17300	0.0	2.9	1.8	2.8
PFISTER 75(SX)	91.7	24.5	19300	0.0	1.0	0.0	3.3
PFISTER 70(SX)	89.6	22.7	18500	0.5	0.6	0.5	3.0
PFISTER 68(SX)	92.9	23.7	19000	0.0	1.0	0.0	2.8
PFISTER 65(SX)	86.0	24.1	19700	0.5	1.0	0.0	3.0
PICNEER 3388(SPX)**	112.9	22.6	20100	0.9	0.9	0.0	3.0
PIONEER 3541(SX)	88.8	20.4	18500	0.0	0.5	0.0	3.0
TAYLOR-EVANS 6992(SX)	90.3	23.3	19700	3.1	1.5	0.0	3.1
FERRY-MORSE HULTING X880(SX)	90.5	22.1	19200	0.0	0.0	0.0	3.5
GROUP II MATURITY							
ACCC UC 8951(SX)	71.4	25.0	19200	0.5	1.5	0.0	3.3
ASGROW RX100(SX)**	107.9	26.5	19900	0.4	1.5	0.5	2.8
ASGROW RX92(SX)**	95.4	26.2	19200	0.0	0.5	1.0	3.1
ASGROW RX90(SX)	97.9	24.4	19600	0.0	1.5	0.0	3.3
ASGROW RX4589(SX)	95.5	25.7	19600	1.2	2.5	0.9	3.0
BURRUS BX25(SX)	99.5	24.8	18800	0.0	1.0	0.0	3.0
BO-JAC X56(SX)	105.2	24.5	19200	0.0	1.0	0.5	3.3
BO-JAC X566(SPX)	110.8	25.3	18100	0.0	1.7	0.0	3.3
BO-JAC X568(SPX)	100.7	24.0	18800	0.5	0.5	1.5	3.0
CARGILL 949(SX)**	92.0	24.3	19800	0.0	0.4	0.0	3.1
CARGILL 920(SX)**	106.6	23.3	19700	0.0	1.5	1.0	3.1
CARGILL 966(SX)	83.5	25.3	17700	0.0	0.6	1.0	3.3
CO-OP 2300(SX)	86.5	22.9	18300	0.0	0.5	1.1	3.3
DEKALB XL 81(SX)**	79.6	26.5	19900	0.0	0.5	0.0	3.1
DEKALB XL 72B(SX)**	85.4	25.6	16300	0.6	1.2	0.0	2.8
USS AGRI-CHEM. USS 1010(SX)	91.0	23.5	19600	0.0	0.4	2.0	3.1
GOLDEN HARVEST H-2600(SX)**	98.9	21.9	19200	0.0	0.5	0.0	3.5
GOLDEN HARVEST H-2650(SX)**	111.0	20.7	18000	0.0	1.6	0.0	3.0
GOLDEN HARVEST H-2615(SPX)	74.1	24.3	17200	0.0	0.6	0.0	3.0
RING AROUND RA1501(SX)	83.8	22.3	18800	0.0	1.0	1.6	3.3
RING AROUND RA3502(3X)	76.1	24.4	19100	0.0	0.5	0.0	3.0
FUNK G-4628(SX)**	90.0	25.5	19800	1.0	0.0	1.5	2.8
FUNK G-4611(SX)	58.2	23.2	20300	0.0	1.5	0.0	3.1
SUPERCROST S85(SX)**	68.8	20.8	20000	1.1	4.6	0.0	2.6
SUPERCROST 5440(SX)	82.1	24.0	18400	0.0	1.7	0.5	3.1
SUPERCROST S85A(SPX)	81.0	26.5	18400	0.0	1.0	0.5	3.1
HAPPEL MS-72(SX)	109.5	24.6	17500	0.0	0.0	0.6	3.0
HAPPEL 3361-A(3X)	80.6	22.9	18900	0.0	1.6	0.0	3.0
HAPPEL MS-79(3X)	105.0	23.0	17100	0.6	3.5	1.7	3.3
HOBLLIT XR451(SX)	99.0	25.8	19000	0.0	1.1	1.6	3.0
IOWA-MISSOURI SX18(SX)	94.9	25.0	19200	0.0	3.7	2.0	3.1
IOWA-MISSOURI SX30(SX)	95.2	24.5	20600	3.4	2.9	0.0	3.1
IOWA-MISSOURI SX19(SX)	82.7	24.4	18700	0.0	1.0	1.6	3.1
IOWA-MISSOURI SX119(SX)	96.2	23.3	18900	0.0	2.1	2.7	3.3
IOWA-MISSOURI SX118(SX)	99.7	24.5	18900	0.0	1.0	0.0	2.8
IOWA-MISSOURI SPX219(SPX)	72.9	24.5	18700	0.0	1.5	0.0	3.1
LYNK LX4510(SX)	109.9	25.8	19300	0.0	1.0	0.5	2.8
LYNK LX4370(SX)	98.9	24.5	18200	0.0	0.0	1.0	3.5

TABLE 8. (CONTINUED).

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LOGGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP II MATURITY							
LYNK LX4330(SX)	95.5	24.8	19100	0.0	1.0	0.0	3.0
LEWIS X78B(SX)	108.0	25.4	19300	0.0	2.0	0.0	3.0
LEWIS X62B(SX)	89.3	23.7	17500	0.5	2.3	2.9	3.3
LEWIS EXP 77E(SX)	98.9	25.3	17900	0.5	1.1	0.0	3.0
LEWIS EXP X110B(SX)	109.7	25.2	18900	0.5	1.5	1.5	3.3
LEWIS EXP 247B(SX)	103.1	22.5	20000	0.5	1.5	2.5	3.1
LEWIS EXP X106B(SX)	94.6	26.2	19500	0.0	2.0	0.0	3.1
LEWIS EXP 405B(SX)	82.0	23.9	20600	0.0	1.0	0.4	3.0
M.F.A V-16(SX)**	99.5	25.0	17900	0.0	1.1	0.5	3.1
M.F.A 6041(SPX)**	86.8	24.3	18400	2.3	1.1	1.7	3.0
M.F.A 5802(SX)**	90.1	23.8	16300	0.6	1.2	0.6	3.1
M.F.A 5903(SPX)	89.2	23.3	18800	0.0	1.6	0.5	3.5
AMERICANA 6700(SX)	112.3	24.5	18700	0.0	1.0	0.0	2.8
AMERICANA 3200(SX)	92.5	24.8	18500	0.0	1.0	0.0	3.3
AMERICANA 4700(SX)	99.6	24.0	18500	0.0	0.5	1.6	3.1
MC ALLISTER 6837(SX)	104.5	25.8	18300	0.5	0.5	0.5	3.1
MC ALLISTER 7207(SX)	99.2	25.9	19900	6.2	1.4	1.0	3.0
MC ALLISTER 7300(SX)	86.9	25.0	18900	0.4	2.1	0.5	3.3
MC ALLISTER 7300A(SX)	106.4	25.1	19300	1.0	2.5	0.5	3.3
MC ALLISTER 7617(SX)	101.8	25.3	18900	2.1	0.5	0.5	3.5
MC CURDY MSX70(SX)	99.3	23.1	19400	0.0	0.0	0.4	3.3
MC CURDY MSX84(SX)	105.6	23.2	20000	0.0	3.4	0.0	3.0
MC CURDY MSX84A(SX)	98.2	24.6	19500	0.0	3.6	0.0	3.3
NORTRHUP-KING PX-79(SX)	95.2	23.7	19700	0.4	1.0	1.0	3.3
NORTRHUP-KING PX-74(SX)**	74.1	24.5	20400	0.0	0.0	0.9	3.3
NORTRHUP-KING PX-675(3X)**	61.5	24.1	20300	0.0	1.5	1.0	3.5
C'S GOLD SX5500(SX)**	98.9	25.0	17800	0.0	0.0	0.5	3.0
C'S GOLD SX5500A(SX)**	101.3	24.5	17200	0.0	1.7	0.6	3.1
O'S GOLD SX5255(SX)	95.2	23.2	18500	0.0	0.5	1.0	3.1
C'S GOLD SX5500AB(SX)	95.8	24.5	17600	1.1	1.7	1.7	3.1
P-A-G SX98(SX)**	94.2	24.6	19300	0.0	2.1	0.0	3.0
P-A-G 314(SX)	72.1	25.0	19600	0.0	1.0	1.0	3.3
PIONEER 3369A(SX)**	88.4	22.8	18100	0.0	0.0	1.1	3.1
PIONEER 3219(DX)**	71.7	26.0	19700	0.0	1.5	0.0	3.0
PIONEER 3184(SX)	86.6	25.3	18300	0.0	0.5	0.0	3.3
PIONEER 3183(SX)	103.4	25.7	17900	0.0	2.2	0.0	3.0
PIONEER 3360(SX)	78.3	23.4	18600	0.0	1.1	1.0	3.1
TAYLOR-EVANS 6968(SX)	94.1	26.9	20200	0.4	1.0	0.0	3.1
THOR-O-BRED SX650(SX)	109.8	25.3	19700	0.0	0.5	0.0	2.8
THOR-O-BRED SX548(SX)	90.2	23.1	19700	1.0	0.0	0.0	3.0
THOR-O-BRED SX544(SX)	84.8	24.1	18800	0.5	1.5	0.0	3.3
THOR-O-BRED SC630(SPX)	93.2	24.3	19300	0.0	2.1	0.0	3.1
THOR-O-BRED SC599(SPX)	79.2	23.4	20000	0.0	3.0	0.0	3.5
TROJAN TXS119(SX)**	94.6	25.6	18800	0.0	0.5	1.0	3.0
TROJAN TX119A(3X)**	98.9	25.1	18900	0.0	1.0	1.0	3.1
TROJAN TXS115A(SX)**	88.7	24.3	19700	0.0	1.0	1.5	3.1
TROJAN TXS117A(SX)	80.9	23.8	18700	0.0	1.6	0.5	3.0
(MO17 X B73)(SX)	79.7	23.6	18900	0.0	1.6	0.0	3.1
US 13(DX)	67.8	22.7	19500	3.1	9.4	1.5	3.8
WALTHER W271(DX)	77.9	24.0	19900	1.0	2.0	0.5	3.0
WALTHER W34(3X)	87.7	24.0	20400	0.0	0.0	0.0	3.3
WALTHER W80(DX)	77.8	23.2	21100	0.0	4.2	0.9	3.0
WALTHER W239(DX)	86.5	22.8	20800	0.9	1.9	0.4	3.3
FERRY-MORSE HULTING X980(SX)	86.7	25.7	18400	0.0	0.5	1.0	3.1
FERRY-MORSE HULTINGX8800(3X)	81.7	24.7	18800	0.0	2.1	1.0	3.5
GROUP III MATURITY							
BO-JAC X7L(SX)	89.5	25.2	19100	0.0	0.5	0.0	3.0
BO-JAC X83(SX)**	100.5	25.5	17700	0.0	2.2	0.5	3.0
CO-OP 2318(SX)	97.1	25.0	18000	0.0	2.2	0.5	3.0
FUNK G-4747W(SX)*	63.1	25.7	19300	4.2	1.5	1.9	3.8
MC CURDY MSX88(SX)	97.7	24.8	19800	0.0	1.5	0.0	3.0
PIONEER 3147(SPX)	91.6	28.2	20900	0.4	0.4	1.9	3.5
TROJAN T1210(SX)	99.4	23.8	18400	0.5	2.7	1.6	3.0
AVERAGE	91.9	24.1	18885	0.5	1.4	0.6	3.1

LSD AT 5% LEVEL IS 18.3 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.

LSD AT 20% LEVEL IS 11.7 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.

*WHITE HYBRID

**WIDELY GROWN HYBRIDS.

TABLE 9. PERFORMANCE RECORD OF HYBRIDS EVALUATED NEAR EDINA, MISSOURI (KNOX COUNTY) DURING THE 2-YEAR PERIOD 1976-77 AND THE 2-YEAR PERIOD 1975-77.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LOGGING		DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LOGGING		DROPPED EARS (%)	EAR HEIGHT (FT)
		ROOT (%)	STALK (%)				ROOT (%)	STALK (%)		
GROUP 1 MATURITY										
PIONEER 3541(SX)	87.9	0.6	16.6	0.0	3.1	-	-	-	-	-
PIONEER 3388(SPX)**	97.1	6.8	10.8	0.0	3.3	91.9	4.5	7.2	0.0	3.2
HOBBLIT XR441A(SX)	90.8	3.6	18.8	1.0	3.5	-	-	-	-	-
SUPERCRUST 4350(SPX)	92.9	3.9	17.3	0.3	3.6	-	-	-	-	-
SUPERCRUST 4242(SPX)	97.6	3.3	31.8	0.3	3.1	83.7	2.2	22.6	0.2	3.3
FUNK G-4520(SX)	80.4	1.3	24.6	0.0	3.4	-	-	-	-	-
FUNK G-4503(SX)**	96.0	1.7	32.3	0.6	3.1	90.6	1.1	23.0	1.0	3.2
FUNK G-4507(SX)**	87.3	14.7	12.7	0.0	3.4	84.0	9.8	8.9	0.6	3.4
USS AGRI-CHEM. USS C550A(SX)	90.1	4.2	20.5	0.8	3.3	-	-	-	-	-
BO-JAC X33(SX)	89.1	14.8	17.9	1.3	3.5	-	-	-	-	-
BO-JAC X35(SX)	94.6	6.8	21.1	0.5	3.0	-	-	-	-	-
BURRUS BX20(SX)	83.8	19.0	11.8	0.0	3.4	85.8	12.7	8.0	0.0	3.6
ACCO UC 6601(SX)**	91.5	3.6	33.0	0.5	2.9	89.5	2.4	24.0	0.3	3.3
GROUP 2 MATURITY										
WALTHER W235(DX)	77.8	3.2	39.0	0.2	3.4	77.4	2.1	29.9	0.7	3.4
US 13(DX)	63.6	4.9	28.0	0.8	3.6	60.9	3.5	22.9	0.7	3.6
TROJAN TXS117A(SX)	83.4	2.9	24.1	0.3	3.1	-	-	-	-	-
TROJAN TXS115A(SX)**	87.8	13.3	18.1	1.0	3.4	83.8	8.8	12.8	1.0	3.5
TROJAN TX115A(3X)**	84.9	2.6	25.2	0.5	3.1	-	-	-	-	-
TROJAN TXS119(SX)**	90.0	2.3	16.5	0.5	3.1	86.3	1.6	13.3	0.3	3.3
THOR-O-PRUD SX650(SX)	99.8	1.3	22.1	0.0	3.1	-	-	-	-	-
PIONEER 3183(SX)	96.3	2.9	10.8	0.0	3.3	-	-	-	-	-
PIONEER 3184(SX)	84.6	4.2	13.3	0.0	3.5	84.8	2.8	9.4	0.2	3.7
PIONEER 3219(DX)**	74.6	1.0	16.4	0.0	3.1	76.0	0.7	12.6	0.0	3.2
PIONEER 3369A(SX)**	86.3	0.5	19.2	0.6	3.3	-	-	-	-	-
P-A-G SX98(SX)**	92.4	0.7	16.1	0.0	3.4	89.0	0.4	12.3	0.0	3.4
O'S GOLD SX550A(SX)**	93.3	18.3	6.7	0.3	3.4	88.9	12.2	5.0	0.2	3.4
O'S GOLD SX550C(SX)**	91.6	3.8	11.6	0.3	3.1	86.5	2.6	8.2	0.2	3.3
NORTHRUP-KING PX-675(3X)**	70.8	20.6	10.3	0.5	3.6	69.1	13.7	8.1	0.3	3.5
NORTHRUP-KING PX-74(SX)**	73.2	12.4	12.7	0.4	3.5	76.0	8.3	9.1	0.3	3.4
MC CURDY MSX84(SX)	100.8	23.2	9.3	0.0	3.5	95.4	15.5	7.4	0.6	3.6
MC CURDY MSX70(SX)	91.1	5.0	21.1	0.2	3.6	84.3	3.3	15.3	0.1	3.5
MC ALLISTER 7300(SX)	88.6	11.8	12.8	0.5	3.5	87.4	7.9	8.8	0.4	3.5
MC ALLISTER 7207(SX)	95.8	5.3	28.2	0.5	3.3	89.3	3.5	19.7	0.3	3.2
MC ALLISTER 6837(SX)	95.6	4.1	16.9	0.3	3.3	91.2	2.7	12.9	0.3	3.3
AMERICANA 3200(SX)	98.1	6.8	18.7	0.0	3.5	92.9	4.7	13.5	0.2	3.6
AMERICANA 6700(SX)	99.6	3.8	17.6	0.0	3.1	90.9	2.5	12.3	0.0	3.3
M.F.A 5802(SX)**	85.1	23.9	5.8	0.3	3.4	-	-	-	-	-
M.F.A 6041(SPX)**	81.5	3.0	23.7	0.8	3.1	81.6	2.2	16.5	0.7	3.2
M.F.A V-16(SX)**	99.6	3.5	18.2	0.3	3.2	96.1	2.3	15.2	0.3	3.3
LEWIS X628(SX)	88.4	5.1	16.8	1.4	3.6	87.2	3.4	12.0	1.1	3.7
LEWIS X788(SX)	96.0	1.4	19.2	0.0	3.3	90.6	0.9	15.8	0.2	3.4
LYNK LX4330(SX)	92.2	7.9	13.4	0.0	3.3	-	-	-	-	-
LYNK LX4370(SX)	90.2	31.1	10.8	0.5	3.6	-	-	-	-	-
LYNK LX4510(SX)	97.3	1.8	19.9	0.3	3.0	-	-	-	-	-
IOWA-MISSOURI SX118(SX)	88.9	5.6	22.2	0.0	3.3	84.4	3.7	15.3	0.0	3.4
IOWA-MISSOURI SX119(SX)	92.8	4.9	32.0	1.3	3.4	85.8	3.3	21.8	1.1	3.3
IOWA-MISSOURI SX19(SX)	84.6	6.7	22.1	0.8	3.4	83.7	4.6	15.4	0.5	3.4
IOWA-MISSOURI SX30(SX)	89.4	2.9	32.1	0.0	3.3	-	-	-	-	-
IOWA-MISSOURI SX18(SX)	95.3	1.1	17.0	1.0	3.1	-	-	-	-	-
HOBBLIT XR451(SX)	98.8	2.3	27.4	0.8	3.3	-	-	-	-	-
HAPPEL J361-A(3X)	81.2	9.8	10.6	0.0	3.3	-	-	-	-	-
HAPPEL MS-72(SX)	98.7	3.8	17.6	0.6	3.3	92.6	2.5	14.5	0.4	3.3
SUPERCRUST 5440(SX)	87.1	15.9	10.0	0.3	3.4	86.7	10.6	6.9	0.4	3.4
SUPERCRUST 585(SX)**	80.2	5.1	21.4	0.0	3.1	76.6	3.4	16.0	0.5	3.3
FUNK G-4611(SX)	72.3	8.6	12.8	0.0	3.3	-	-	-	-	-
FUNK G-4628(SX)**	89.9	2.0	20.9	1.0	3.1	88.5	1.3	15.4	0.8	3.1
RING ARUND RA3502(3X)	81.1	5.7	14.7	0.0	3.3	-	-	-	-	-
RING ARUND RA1501(SX)	87.8	10.8	12.2	0.8	3.6	-	-	-	-	-
USS AGRI-CHEM. USS 1010(SX)	89.6	6.5	14.8	1.0	3.4	-	-	-	-	-
DEKALB XL 81(SX)**	83.7	4.4	8.5	0.0	3.3	81.6	3.0	7.6	0.0	3.2
CO-OP 2300(SX)	80.9	19.6	5.4	0.6	3.5	-	-	-	-	-
CARGILL 920(SX)**	96.5	3.3	17.3	0.5	3.1	94.6	2.2	14.0	0.3	3.0
CARGILL 949(SX)**	90.4	8.0	17.8	0.0	3.4	85.5	5.3	12.2	0.3	3.4
BO-JAC X566(SPX)	104.8	10.2	7.9	0.0	3.4	-	-	-	-	-
BO-JAC X56(SX)	96.9	18.1	14.3	0.3	3.5	91.4	12.1	10.7	0.2	3.5
BURRUS BX25(SX)	90.3	2.3	14.0	0.0	3.3	89.2	1.7	11.3	0.2	3.3
ASGROW RX90(SX)	86.3	10.4	12.5	0.0	3.6	81.0	6.9	8.9	0.4	3.6
ASGROW RX92(SX)**	85.5	10.6	14.3	0.5	3.4	-	-	-	-	-

TABLE 9. CGNT.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LOGGING ROOT STALK (%) (%)		DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LOGGING ROOT STALK (%) (%)		DROPPED EARS (%)	EAR HEIGHT (FT)
	GROUP 3 MATURITY									
CO-OP 2312(SX)	93.8	2.3	16.6	0.3	3.3	-	-	-	-	-
BO-JAC X83(SX)**	93.6	1.0	18.1	0.3	3.4	-	-	-	-	-
AVERAGE	89.2	7.1	17.8	0.4	3.3	85.6	4.9	13.6	0.4	3.4

*WHITE HYBRID.

**WIDELY GROWN HYBRID

TABLE 1C. PERFORMANCE RECORD OF CCRN HYBRIDS GROWN AT TWO NORTH MISSOURI LOCATIONS (ATCHISON AND KNUX COUNTIES) IN 1977.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LOGGED PLANTS ROOT STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	
GROUP 1 MATURITY (2-LOCATION AVERAGE)							
ACCO UC 6601(SX)**	85.8	20.2	18850	5.7	2.1	1.1	2.9
BO-JAC X35(SX)	86.3	20.2	17250	3.3	2.6	2.2	2.6
BO-JAC X37(SX)	91.3	18.6	18100	5.1	2.8	1.3	3.1
BO-JAC X33(SX)	79.8	19.8	19000	5.8	3.3	4.6	3.4
BO-JAC X347(SX)	69.1	20.8	18650	0.8	1.5	1.3	3.2
BO-JAC X193(SX)	78.3	20.5	19300	1.6	6.2	0.8	2.8
BO-JAC X847(SX)	81.8	20.8	18950	1.9	1.8	0.6	3.1
USS AGRI-CHEM. USS 055CA(SX)	78.6	20.3	20150	5.6	2.7	2.0	3.3
USS AGRI-CHEM. USS 0010(SX)	78.3	19.7	17900	1.2	4.2	1.3	2.8
GOLDEN HARVEST H-250C(SX)	70.0	20.6	12300	2.6	3.7	2.4	3.2
FUNK G-4507(SX)**	65.5	21.4	17900	3.1	2.8	0.8	3.2
FUNK G-4503(SX)**	89.8	20.7	17350	2.3	7.8	2.1	3.0
FUNK G-4520(SX)	77.3	21.4	14650	0.4	4.6	1.6	2.9
FUNK G-4533(3X)	94.5	21.6	20050	6.9	3.9	0.8	3.0
FUNK G-4574(3X)	74.1	20.8	18550	0.8	3.3	1.4	3.4
FUNK G-4449(SX)	84.0	21.1	18750	9.8	4.0	0.6	2.9
SUPERCROST 4242(SPX)	76.2	20.4	16800	5.4	5.3	2.1	2.9
SUPERCROST 5440A(SPX)	71.4	22.0	17900	5.3	2.6	1.4	3.1
SUPERCROST 4350(SPX)	80.8	20.6	17450	1.6	2.8	0.5	3.2
PFISTER 77(SX)	79.1	23.4	17700	0.6	4.8	2.3	2.9
PFISTER 75(SX)	74.6	21.6	18800	6.3	4.6	1.1	3.2
PFISTER 70(SX)	76.4	21.3	18800	19.6	1.8	0.8	3.0
PFISTER 68(SX)	80.3	21.0	19150	2.8	2.3	0.8	2.9
PFISTER 65(SX)	78.3	21.4	18650	1.1	3.1	0.3	2.9
PIONEER 3388(SPX)**	97.3	20.9	19500	12.7	0.7	1.1	3.0
FICNEER 3541(SX)	80.3	18.9	17600	4.4	3.3	1.1	3.1
FERRY-MORSE HLLTING X880(SX)	74.3	20.3	19850	4.7	1.2	0.8	3.3
GROUP 2 MATURITY (2-LOCATION AVERAGE)							
ACCO UC 8951(SX)	58.4	21.9	18950	3.9	3.6	0.8	3.4
ASGROW RX100(SX)**	89.8	23.8	19500	2.3	4.8	1.3	2.9
ASGROW RX92(SX)**	76.1	23.0	18050	0.3	2.6	2.6	3.1
ASGROW RX9C(SX)	82.8	21.5	18950	6.2	3.0	1.1	3.3
BO-JAC X56(SX)	83.2	21.5	19200	9.1	3.4	1.0	3.4
BO-JAC X56B(SPX)	79.0	21.8	18350	6.8	2.6	1.3	3.3
CARGILL 949(SX)**	75.8	21.3	19050	5.0	2.7	1.1	3.2
CARGILL 920(SX)**	95.9	21.2	19400	1.0	5.9	2.1	3.1
CARGILL 966(SX)	74.1	22.2	17700	1.1	2.0	0.8	3.3
CO-OP 2300(SX)	71.6	20.8	18250	0.8	2.3	1.1	3.3
DEKALB XL 81(SX)**	74.9	23.3	19200	1.8	1.3	0.0	3.1
DEKALB XL 72B(SX)**	76.8	22.9	16100	3.4	1.8	1.6	2.9
USS AGRI-CHEM. USS 1010(SX)	72.9	21.1	19050	3.3	1.8	2.6	3.2
GOLDEN HARVEST H-2600(SX)**	80.1	20.5	18900	3.9	1.2	0.6	3.4
GOLDEN HARVEST H-2650(SX)**	92.4	20.3	17500	2.8	3.5	1.2	3.0
GOLDEN HARVEST H-2615(SPX)	62.4	22.0	15450	0.3	3.8	2.2	3.1
RING AROUND RA1501(SX)	69.1	20.4	19250	5.8	1.8	3.6	3.4
RING AROUND RA3502(3X)	61.9	21.8	18950	0.3	4.1	0.3	3.0
FUNK G-4628(SX)**	78.9	22.8	19450	2.4	1.8	1.8	2.9
FUNK G-4611(SX)	57.0	20.8	19750	1.1	2.5	1.1	3.1
SUPERCROST 985(SX)**	58.6	19.3	19200	3.4	7.6	0.7	2.6
SUPERCROST 5440(SX)	69.8	21.4	17650	5.4	2.0	2.1	3.2
SUPERCROST 885A(SPX)	80.3	23.3	18350	2.5	2.7	0.8	3.1
HAPPEL MS-72(SX)	89.4	22.3	17700	3.1	2.4	2.8	3.0
HAPPEL 3361-A(3X)	67.1	20.8	18550	3.3	5.9	1.6	3.1
HAPPEL MS-79(3X)	83.2	20.9	15750	3.5	4.8	4.4	3.2
LYNK LX451C(SX)	90.6	23.2	17850	0.3	2.3	1.9	2.9
LYNK LX4370(SX)	72.9	21.7	16650	4.9	3.4	2.1	3.5
LYNK LX4330(SX)	75.5	21.8	17650	3.3	2.4	2.5	3.3
LEWIS X78B(SX)	92.4	22.8	19000	5.1	2.3	1.6	3.0
LEWIS X62B(SX)	72.6	21.3	17350	2.6	4.1	4.1	3.2
LEWIS EXP 77H(SX)	86.1	22.0	17600	3.4	2.6	1.1	3.1
LEWIS EXP X110B(SX)	87.0	22.5	19150	11.4	3.6	2.6	3.3
LEWIS EXP 247B(SX)	87.9	20.7	19300	5.4	5.4	3.4	3.2
LEWIS EXP X106H(SX)	76.6	23.1	18350	0.9	3.1	1.2	3.1
M*F*A V-16(SX)**	83.8	22.6	18300	1.4	2.1	0.8	3.1
M*F*A 6041(SPX)**	77.9	21.6	16500	3.4	4.9	1.1	3.0
M*F*A 5802(SX)**	62.1	21.1	15950	2.0	2.1	2.3	3.3
M*F*A 5903(SPX)	71.8	21.1	18650	1.9	4.9	0.8	3.5
MC ALLISTER 7300(SX)	72.0	21.8	19200	3.6	2.1	1.0	3.3
MC CURDY MSX70(SX)	79.3	21.3	18850	1.6	1.7	0.8	3.2

TABLE 1C. CONT.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED EARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
MC CURDY MSX84(SX)	88.7	21.1	19350	1.6	8.2	0.8	3.1
NORTHRUP-KING PX-79(SX)	76.3	21.0	20250	8.0	2.1	1.4	3.4
NORTHRUP-KING PX-74(SX)**	60.7	21.9	19700	6.4	3.3	1.3	3.4
NORTHRUP-KING PX-675(3X)**	55.8	21.4	19950	12.3	2.0	1.8	3.3
O'S GOLD SX5500(SX)**	77.7	22.6	18150	0.2	2.8	3.2	3.0
O'S GOLD SX5500A(SX)**	82.6	21.8	16700	0.9	3.4	1.5	3.3
O'S GOLD SX5255(SX)	81.0	20.8	18300	6.7	3.9	1.6	3.3
O'S GOLD SX5500CAR(SX)	76.3	21.6	16900	1.8	4.6	1.4	3.1
F-A-G SX98(SX)**	79.6	22.3	19150	1.8	4.0	0.5	3.1
P-A-G 314(SX)	73.6	21.9	18400	0.6	5.1	1.3	3.2
PIONEER 3369A(SX)**	70.4	20.8	17550	1.6	6.3	2.6	3.1
PIONEER 3219(DX)**	65.5	22.4	18400	0.3	2.8	0.6	3.0
PIONEER 3184(SX)	82.4	23.0	17850	0.3	2.7	0.7	3.3
PIONEER 3183(SX)	97.3	23.3	17550	1.4	4.0	1.5	3.3
PIONEER 3360(SX)	67.5	21.0	18200	2.6	5.1	1.9	3.1
TROJAN TXS119(SX)**	85.4	23.1	17950	1.1	2.3	1.6	3.1
TROJAN TX119A(3X)**	80.8	22.4	18900	3.0	5.6	2.1	3.1
TROJAN TXS115A(SX)**	63.6	21.7	19150	5.5	1.0	1.8	3.2
TROJAN TXS117A(SX)	73.3	21.5	17650	4.3	2.9	1.8	3.1
(MO17 X B73)(SX)	67.8	21.1	18600	0.0	4.5	1.7	3.2
US 13(DX)	50.4	20.8	18900	4.4	16.4	2.9	3.6
WALTHER W271(DX)	61.7	21.4	19000	6.1	3.2	0.8	3.1
WALTHER W34(3X)	73.8	21.6	19350	3.4	3.8	1.6	3.3
WALTHER W80(DX)	62.8	20.7	19300	3.6	5.8	1.0	3.1
WALTHER W239(CX)	71.4	20.6	20350	6.6	3.3	1.5	3.2
FERRY-MORSE HULTING X980(SX)	75.5	23.1	18450	2.6	1.9	1.3	3.2
FERRY-MORSE HLLTINGX8800(3X)	62.7	21.9	18300	2.9	1.9	2.4	3.3
GROUP 3 MATURITY (2-LOCATION AVERAGE)							
BO-JAC X7L(SX)	82.4	23.1	19350	1.3	3.3	0.8	3.1
BO-JAC X83(SX)**	85.4	22.4	17100	3.8	3.8	0.5	3.0
CO-OP 2318(SX)	87.6	22.5	17750	2.7	3.2	1.1	3.0
FUNK G-4747W(SX)*	62.1	23.0	18300	10.2	4.0	1.2	3.8
MC CUFDY MSX88(SX)	84.8	22.3	19350	2.1	3.1	0.3	3.1
PIONEER 3147(SPX)	81.1	24.9	19750	6.9	5.9	2.0	3.6
TROJAN T1210(SX)	69.3	21.4	17650	0.3	4.5	2.7	3.1
AVERAGE	76.7	21.6	18333	3.7	3.5	1.5	3.1

*WHITE HYBRID.

**WIDELY GRCWN HYBRID.

TABLE 11. PERFORMANCE OF CCRN HYBRIDS EVALUATED ON THE HOLTEN ESCHENBACH FARM NEAR NORBORNE, MISSOURI (CARROLL COUNTY) IN 1977.
PLANTED: 12 APRIL 1977. HARVESTED: 23 SEPTEMBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LOGGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	
GROUP I MATURITY								
BURRUS BX20(SX)	110.3	19.0	16800	17.7	5.4	0.0	3.0	
BURRUS BX14(SX)	126.8	18.2	18000	43.5	2.8	1.1	3.1	
BO-JAC X37(SX)	120.0	18.5	18500	27.6	4.2	0.6	3.0	
HC-JAC X33(SX)	137.6	18.0	19000	15.2	4.7	1.0	3.3	
USS AGRI-CHEM. USS 0550A(SX)	106.9	19.5	17300	27.3	6.3	0.0	3.1	
GOLDEN HARVEST H-2500(SX)	118.9	18.8	13700	9.3	3.9	1.6	3.3	
FUNK G-4507(SX)**	111.7	18.8	17700	32.1	3.9	1.6	3.1	
FUNK G-4503(SX)**	127.5	18.8	16900	29.9	3.0	2.2	3.0	
FUNK G-4520(SX)	110.3	18.9	15800	30.5	4.5	0.0	2.6	
FUNK G-4553(3X)	128.9	18.8	17700	23.3	9.8	3.4	2.8	
FUNK G-4525(SX)	113.7	18.0	17900	10.3	6.1	2.2	3.0	
FUNK G-4574(3X)	114.9	18.2	17900	17.8	5.0	0.5	3.0	
FRONTIER SX200(SX)	87.7	18.4	17600	45.5	9.7	1.0	2.6	
FRONTIER SX211(SX)	109.5	18.3	18600	39.3	2.1	1.6	3.3	
SUPERCROST 4242(SPX)	103.0	18.7	16800	16.5	8.5	1.8	2.8	
SUPERCROST 5440A(SPX)	94.6	19.2	15800	30.6	9.0	0.5	3.5	
SUPERCROST 4350(SPX)	108.9	19.0	17400	22.7	6.0	1.3	3.3	
AMERICANA 3500A(SX)	115.2	18.9	16800	11.2	4.4	1.1	3.1	
NC+ 59(SX)	124.3	18.5	19700	21.5	0.4	1.1	3.1	
PIONEER 3388(SPX)**	76.6	18.9	16600	7.6	3.1	0.0	2.6	
PIONEER 3541(SX)	112.2	18.1	17900	7.0	3.4	1.1	3.1	
TAYLOR-EVANS 6992(SX)	112.6	18.8	18400	12.2	11.5	3.3	3.0	
FERRY-MORSE HULTING X880(SX)	137.5	18.7	19100	33.3	4.5	1.2	3.1	
GROUP II MATURITY								
ACCO UC 8951(SX)	122.7	19.7	17300	14.3	4.8	1.2	3.1	
ASGR0W XX100A(SX)	109.3	18.3	18200	42.5	3.3	0.5	3.0	
ASGR0W RX90(SX)	124.6	18.9	18100	16.1	4.4	0.0	3.0	
ASGR0W RX4589(SX)		Poor Stand	19.5	10900	3.9	31.1	2.5	2.5
BURRUS BX25(SX)	107.0	19.2	13300	6.2	14.9	4.4	2.6	
BO-JAC X56(SX)	115.9	18.6	17100	17.6	2.6	1.2	3.0	
BO-JAC X69(SX)	124.5	18.1	18400	18.1	8.5	2.0	3.1	
BO-JAC X56H(SPX)	126.2	18.6	18400	30.6	2.8	0.5	3.1	
CARGILL 979(SX)**	93.0	19.7	14900	0.0	6.7	2.0	2.8	
CARGILL 949(SX)**	149.0	19.0	17800	20.8	1.6	0.0	3.3	
CARGILL 920(SX)**	113.8	18.2	16700	12.4	4.8	0.0	3.1	
CARGILL 966(SX)	101.0	19.3	16200	36.0	1.3	0.0	3.1	
CO-OP 2300(SX)	106.1	18.5	17200	44.1	3.8	1.3	3.0	
DEKALH XL 81(SX)**	94.3	19.9	15300	26.1	5.9	1.7	2.8	
DEKALB XL 72B(SX)**	89.6	19.0	14500	8.1	5.7	0.7	2.6	
USS AGRI-CHEM. USS 1010(SX)	118.3	19.0	18600	45.3	3.8	1.7	2.8	
USS AGRI-CHEM. USS 1515(SX)	121.1	19.6	16700	1.7	4.9	0.6	3.1	
GOLDEN HARVEST H-2600(SX)**	112.6	18.4	15600	10.9	3.1	1.9	3.1	
GOLDEN HARVEST H-2650(SX)**	89.0	18.7	15600	12.1	4.9	1.1	2.6	
GOLDEN HARVEST H-2615(SPX)	95.2	19.2	13700	10.0	5.8	1.4	3.0	
RING AROUND RA1501(SX)	129.1	19.0	18900	12.2	2.6	1.1	3.1	
RING AROUND RA3502(3X)	89.8	21.7	17700	26.6	13.4	0.5	3.0	
FUNK G-4628(SX)**	94.8	19.6	15000	1.7	6.6	0.6	2.8	
FUNK G-4611(SX)	101.8	19.1	16300	23.8	4.1	0.6	3.1	
FRONTIER SX233(SX)	135.0	18.9	18300	2.7	5.4	1.1	3.5	
FRONTIER SX244(SX)	124.9	18.9	19100	20.6	5.9	0.0	3.1	
FRONTIER SX234(SX)	136.6	18.5	18900	14.3	4.4	0.5	3.3	
SUPERCROST S85(SX)**	64.8	18.0	15400	58.4	5.8	4.1	2.6	
SUPERCROST 5440(SX)	124.3	18.5	18500	20.2	4.3	1.1	3.3	
SUPERCROST S85A(SPX)	87.2	19.7	15800	25.4	5.3	0.0	3.0	
HAPPEL MS-72(SX)	98.3	19.0	16000	10.3	21.4	0.6	3.1	
HAPPEL 3361-A(3X)	92.9	19.2	17200	24.0	8.3	1.8	3.0	
HAPPEL MS-79(3X)	120.4	18.7	14700	5.5	29.0	1.3	3.0	
LEWIS X78B(SX)	118.9	18.5	18300	1.1	6.6	0.5	3.0	
LEWIS X62B(SX)	119.1	18.8	18600	15.5	2.8	2.2	3.3	
LEWIS X84B(SX)	114.0	20.9	16200	32.4	5.0	0.9	2.8	
LEWIS EXP 77B(SX)	122.9	19.3	16000	12.5	13.1	0.0	3.1	
LEWIS EXP X11CB(SX)	125.6	18.4	18500	21.2	3.3	0.0	3.1	
LEWIS EXP 247B(SX)	122.0	18.6	18600	12.8	14.3	1.5	3.0	
LEWIS EXP X10EB(SX)	135.5	20.1	18600	22.6	8.1	1.6	3.0	
LEWIS EXP 405B(SX)	140.6	19.3	19500	6.6	3.5	1.1	3.3	
LEWIS EXP 272B(SX)	141.1	19.2	18100	10.1	1.6	0.0	3.5	
DENNIS DS37(SX)	143.6	18.8	17900	15.1	5.2	4.1	3.1	
DENNIS DS31(SX)	99.7	18.5	15800	20.5	4.4	0.6	2.6	
DENNIS DS39(SX)	131.7	20.0	18500	17.8	4.3	4.6	3.0	
M.F.A V-16(SX)**	100.1	19.5	17100	7.4	8.6	1.2	3.0	
M.F.A 5802(SX)**	90.2	18.8	13800	17.7	4.7	1.3	2.8	

TABLE 11. (CONTINUE.)

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED EARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
GROUP II MATURITY							
M.F.A 5903(SPX)	120.1	18.2	17800	15.8	8.7	1.0	3.1
AMERICANA 6700(SX)	108.0	18.8	15700	1.8	12.9	0.0	2.8
AMERICANA 3200(SX)	139.6	18.5	18300	2.1	6.5	1.0	3.3
AMERICANA 9500(3X)	89.6	19.8	15600	15.3	3.9	0.6	3.1
MUNCY CHIEF SX878(SX)	66.1	19.2	12400	6.4	32.0	2.5	2.8
MUNCY CHIEF SX777(SX)	105.0	19.5	16600	14.2	8.7	1.2	3.0
MC ALLISTER 7617(SX)	130.8	18.7	18500	31.1	3.8	0.5	3.1
MC CURDY MSX70(SX)	134.2	18.6	18100	14.2	1.7	1.7	3.0
MC CURDY MSX84(SX)	114.7	18.9	17600	23.9	18.3	2.3	2.6
NC+ 85(SX)	105.2	19.5	15500	3.7	9.0	1.3	2.8
NC+ 76(3X)	112.4	19.0	17900	10.4	9.1	1.7	3.1
NORTHRUP-KING PX-79(SX)	115.0	18.0	20100	24.8	3.0	2.4	3.3
NORTHRUP-KING PX-74(SX)**	131.3	18.8	20000	22.6	2.4	0.0	3.0
NORTHRUP-KING PX-675(3X)**	110.5	18.5	17000	16.9	2.8	1.2	3.1
P-A-G SX98(SX)**	96.7	19.8	16400	2.2	6.8	2.2	2.8
P-A-G 357(SX)	94.6	19.0	15500	9.9	11.8	2.0	2.8
P-A-G 314(SX)	106.2	18.8	17300	17.5	6.7	2.6	3.1
PIONEER 3369A(SX)**	98.6	19.2	16400	31.7	5.5	1.8	3.1
PIONEER 3219(DX)**	72.6	19.3	16900	9.5	1.8	0.0	2.8
PIONEER 3184(SX)	139.1	20.7	17400	3.5	1.2	3.4	3.1
PIONEER 3183(SX)	135.2	19.9	19000	29.7	6.3	0.0	3.3
PIONEER 3360(SX)	149.4	18.8	19000	4.7	6.0	0.0	3.1
TAYLOR-EVANS 6968(SX)	98.4	18.2	18200	5.1	6.4	0.4	2.8
TROJAN TXS119(SX)**	99.1	20.1	16900	16.2	3.5	1.8	2.8
TROJAN TX119A(3X)**	106.9	19.5	17200	5.1	4.1	2.3	3.0
TROJAN TXS115A(SX)**	141.3	19.1	19000	3.4	4.3	0.9	3.3
TROJAN TXS117A(SX)	122.4	19.0	17800	7.3	7.5	1.6	3.1
WEATHER MASTER EXP12A(SX)	88.7	18.6	16200	14.5	7.9	1.1	2.8
WEATHER MASTER EPX888(SX)	122.0	18.9	19000	13.6	1.5	0.0	3.3
WEATHER MASTER EPX888C(SX)	112.3	18.3	17000	4.3	6.6	1.7	3.3
(M017 X B73)(SX)	105.6	18.4	16700	10.6	5.0	1.9	3.0
(M017 X N28)(SX)	110.4	18.8	16600	1.7	8.4	0.6	3.0
(N28 X FR14A)(SX)	105.2	18.8	16600	3.2	6.2	1.9	2.8
(M01W X 805W)FR802W(3X)	94.7	19.1	16600	16.0	7.6	0.6	3.3
(CI66 X CI64)FR802W(3X)	104.2	19.8	14900	23.0	10.0	1.3	3.5
US 13(DX)	55.9	18.6	15500	20.2	28.1	2.5	3.0
WALTHER W271(DX)	115.5	18.7	18000	21.7	7.5	1.2	3.1
WALTHER W34(3X)	105.5	19.3	15700	21.2	5.9	2.0	3.0
WALTHER W80(DX)	64.6	18.4	15600	14.9	12.4	2.7	2.8
WALTHER W239(DX)	102.6	18.4	15500	19.8	11.3	3.0	3.1
FERRY-MORSE HULTING X980(SX)	123.8	19.7	16700	7.1	8.2	0.0	3.3
FERRY-MORSE HULTINGX8800(3X)	105.1	19.1	16900	20.0	5.3	0.0	3.1
GROUP III MATURITY							
BO-JAC X7L(SX)	105.5	18.8	16600	2.3	13.9	1.6	2.6
BO-JAC X83(SX)**	101.5	19.6	16900	26.8	9.4	0.5	2.8
BO-JAC X923(SX)	137.3	19.7	18700	13.7	10.7	4.3	3.1
CO-OP 2318(SX)	94.5	22.3	14700	0.6	4.6	1.2	2.6
FUNK G-4747W(SX)*	93.9	20.1	15000	21.9	7.1	3.8	3.5
MC CURDY MSX22(SX)	119.1	19.7	17400	9.6	7.5	0.5	3.0
P-A-G SX70W(SX)**	95.6	20.5	15500	17.0	11.4	0.6	3.0
PIONEER 3147(SPX)	92.9	20.5	14400	19.1	11.8	2.6	3.3
TROJAN T1210(SX)	88.2	18.0	16200	5.1	9.2	3.5	3.1
AVERAGE	110.5	19.0	16980	16.9	7.1	1.3	3.0

LSD AT 5% LEVEL IS 19.7 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.
LSD AT 20% LEVEL IS 12.6 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.

*WHITE HYBRID
**WIDELY GROWN HYBRIDS.

TABLE 12. PERFORMANCE RECORD FOR HYBRIDS EVALUATED NEAR NORBORNE, MO. (CARROLL COUNTY -- 1977) AND HIGGINSVILLE, MO. (LAFAYETTE COUNTY -- 1975-76) DURING THE 2-YEAR PERIOD 1976-77 AND THE 3-YEAR PERIOD 1975-77.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LOGGING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LOGGING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP 1 MATURITY										
TAYLOR-EVANS 6992(SX)	98.4	8.9	7.8	1.6	3.1	-	-	-	-	-
PIONEER 3541(SX)	98.8	3.8	2.3	0.6	3.1	-	-	-	-	-
PIONEER 3388(SPX)**	73.6	3.8	1.8	0.0	3.1	80.9	5.8	14.3	0.0	3.2
NC+ 59(SX)	114.1	12.9	0.5	0.6	3.4	109.7	12.9	11.2	0.4	3.5
SUPERCROST 4350(SPX)	98.6	13.4	6.3	0.7	3.4	-	-	-	-	-
SUPERCROST 4242(SPX)	95.0	9.8	5.4	0.9	3.1	84.1	6.9	25.7	0.6	3.2
FUNK G-4520(SX)	87.8	19.7	3.1	0.0	2.9	-	-	-	-	-
FUNK G-4503(SX)**	103.1	14.9	1.8	1.1	3.1	97.8	11.7	13.5	0.7	3.3
FUNK G-4507(SX)**	103.8	17.4	2.5	0.8	3.3	98.7	17.0	8.9	0.5	3.5
BO-JAC X33(SX)	114.1	7.6	2.6	0.5	3.6	-	-	-	-	-
BURRUS BX20(SX)	101.4	9.8	3.3	0.0	3.3	97.3	16.0	10.5	0.0	3.4
GROUP 2 MATURITY										
WALTHER W239(DX)	89.1	11.0	9.3	1.5	3.3	89.2	7.3	31.4	1.0	3.5
WALTHER WRO(DX)	64.1	7.7	11.7	1.6	3.0	68.3	5.3	26.9	1.1	3.1
WALTHER W271(DX)	89.8	11.1	4.8	0.6	3.1	89.6	8.1	22.4	0.4	3.1
US 13(DX)	58.3	10.1	19.5	1.3	3.4	60.7	7.1	33.4	1.0	3.5
(MD17 X B73)(SX)	98.0	5.8	3.4	0.9	3.3	102.9	9.5	13.4	0.6	3.4
WEATHER MASTER EXPH28(SX)	103.3	8.3	1.3	0.0	3.6	-	-	-	-	-
WEATHER MASTER EXP12A(SX)	84.6	7.3	3.9	0.6	3.0	-	-	-	-	-
TROJAN TXS117A(SX)	106.0	3.6	4.3	0.8	3.3	100.2	7.3	16.0	0.7	3.5
TROJAN TXS115A(SX)**	111.1	2.9	2.1	0.4	3.4	101.8	7.3	13.7	0.3	3.7
TROJAN TX119A(SX)**	92.3	2.6	3.0	1.4	3.1	-	-	-	-	-
TROJAN TXS119(SX)**	90.3	8.1	3.6	0.9	3.1	87.7	5.6	22.8	0.6	3.3
TAYLOR-EVANS 6968(SX)	88.8	2.6	4.0	0.2	2.9	-	-	-	-	-
PIONEER 3183(SX)	114.0	14.8	3.7	0.0	3.5	-	-	-	-	-
PIONEER 3184(SX)	119.4	1.8	1.1	1.7	3.3	116.1	3.1	2.2	1.1	3.4
PIONEER 3219(DX)**	72.4	4.8	3.3	0.0	2.9	78.9	3.5	22.6	0.0	3.0
PIONEER 3369A(SX)**	88.2	15.8	4.1	1.2	3.3	-	-	-	-	-
P-A-G SX98(SX)**	87.8	1.1	4.1	1.1	3.1	87.8	0.9	20.1	0.9	3.2
NORTRHUP-KING PX-675(SX)**	100.3	4.7	1.4	0.6	3.4	-	-	-	-	-
NORTRHUP-KING PX-74(SX)**	108.1	11.9	1.5	0.0	3.3	102.6	11.7	8.2	0.0	3.5
NC+ 76(SX)	97.0	5.8	6.4	0.8	3.3	-	-	-	-	-
NC+ 85(SX)	92.9	1.8	5.6	0.7	3.0	89.0	1.2	22.4	0.4	3.2
MC CURDY MSX84(SX)	103.3	11.9	10.8	1.1	3.1	105.9	9.9	15.4	0.8	3.4
MC CURDY MSX70(SX)	112.3	8.2	0.8	0.8	3.3	103.6	8.2	10.1	0.6	3.4
M.F.A 5802(SX)**	93.3	8.8	2.3	0.7	3.4	-	-	-	-	-
M.F.A V-16(SX)**	87.1	3.7	5.3	0.6	3.1	86.6	2.6	21.2	0.4	3.2
LEWIS X84H(SX)	102.7	16.9	5.0	0.4	3.1	98.0	11.3	32.0	0.3	3.3
LEWIS X62E(SX)	100.6	7.8	2.0	1.1	3.8	103.3	13.5	8.2	0.7	3.7
LEWIS X78B(SX)	104.1	0.6	3.9	0.3	3.1	93.9	0.4	23.6	0.2	3.3
HAPPEL 3361-A(3X)	83.6	13.9	4.6	0.9	3.3	-	-	-	-	-
HAPPEL MS-72(SX)	89.3	5.1	11.4	0.3	3.4	89.0	3.6	27.3	0.2	3.4
SUPERCROST 5440(SX)	106.6	10.1	2.4	0.6	3.4	105.0	14.2	5.7	0.4	3.5
SUPERCROST 585(SX)**	67.6	29.2	4.8	2.1	3.1	72.8	19.5	19.0	1.4	3.2
FRONTIER SX244(SX)	101.7	10.6	5.3	0.0	3.3	-	-	-	-	-
FRONTIER SX233(SX)	106.6	2.4	2.7	0.6	3.5	-	-	-	-	-
FUNK G-4611(SX)	96.3	11.9	2.3	0.3	3.2	-	-	-	-	-
FUNK G-4628(SX)**	86.3	0.8	3.6	0.3	3.0	83.5	0.6	20.1	0.4	3.2
RING ARCUUD RA1501(SX)	108.5	7.2	2.1	0.6	3.3	-	-	-	-	-
GOLDEN HARVEST H-2650(SX)**	84.7	6.1	2.7	0.6	3.1	85.7	4.4	18.1	0.4	3.1
USS AGRI-CHEM. USS 1515(SX)	102.9	0.8	3.0	0.3	3.3	99.0	1.4	15.7	0.2	3.3
USS AGRI-CHEM. USS 1010(SX)	103.6	22.6	2.4	0.8	3.1	103.6	25.9	7.3	0.6	3.3
DEKALB XL 72B(SX)**	89.5	5.9	2.8	0.3	2.9	-	-	-	-	-
DEKALB XL 81(SX)**	93.3	13.1	5.3	0.8	2.9	89.4	9.1	21.5	0.6	3.0
CO-OP 2300(SX)	102.6	22.1	1.9	0.7	3.3	96.0	19.2	6.6	0.4	3.6
CARGILL 920(SX)**	105.1	8.6	3.8	0.0	3.1	101.6	6.4	13.3	0.0	3.4
CARGILL 949(SX)**	119.8	10.4	1.9	0.0	3.5	115.8	11.7	10.3	0.0	3.6
CARGILL 979(SX)**	96.6	0.0	3.3	1.0	3.1	-	-	-	-	-
BO-JAC X69(SX)	101.1	9.1	4.5	1.0	3.4	101.3	6.0	13.0	0.7	3.5
BO-JAC X56(SX)	100.1	12.1	1.6	0.6	3.3	102.5	12.9	12.5	0.4	3.3
BURRUS BX25(SX)	92.2	3.1	8.2	2.2	3.1	87.3	2.4	26.1	1.5	3.1
ACCO UC 8951(SX)	108.3	7.1	3.6	0.6	3.6	103.1	7.4	20.2	0.4	3.7
GROUP 3 MATURITY										
P-A-G SX70W(SX)***	76.4	9.0	16.7	0.5	3.4	-	-	-	-	-
FUNK G-4747W(SX)**	75.6	11.6	4.3	1.9	4.0	78.9	9.3	14.1	1.3	4.1
CO-OP 2318(SX)	86.2	0.3	3.1	0.6	2.9	87.3	0.4	18.6	0.4	3.0
BO-JAC X83(SX)**	91.6	14.7	5.8	0.3	3.3	96.0	9.8	8.0	0.2	3.4
AVERAGE	95.8	8.9	4.4	0.7	3.2	93.9	8.3	16.9	0.5	3.4

*WHITE HYBRID.
**WIDELY GROWN HYBRID

TABLE 13. PERFORMANCE OF CCRN HYBRIDS EVALUATED AT THE AGRONOMY RESEARCH CENTER--BRADFORD FARM NEAR COLUMBIA, MISSOURI (BOONE COUNTY) IN 1977. PLANTED: 11 APRIL 1977. HARVESTED: 8 SEPTEMBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANKS STALK (%)	DROPPED EARS (%)	FAR HEIGHT (FT)
GROUP I MATURITY							
BO-JAC X37(SX)	153.9	24.7	17300	0.0	4.8	0.5	3.8
BO-JAC X33(SX)	145.8	22.1	17600	0.0	6.7	0.0	3.8
USS AGRI-CHEM. USS 0550A(SX)	143.5	23.8	19200	0.0	5.3	0.5	3.7
GOLDEN HARVEST H-2500(SX)	Poor Stand	22.9	11100	0.0	5.6	0.0	3.6
FUNK G-4507(SX)**	161.8	24.1	18000	0.0	8.9	0.0	4.0
FUNK G-4503(SX)**	136.2	23.0	13800	3.2	10.1	0.6	4.0
FUNK G-4520(SX)	Poor Stand	24.5	11000	0.0	19.3	0.0	3.5
FUNK G-4553(3X)	136.1	24.8	18100	0.0	7.4	0.0	3.5
FUNK G-4526(SX)	132.9	24.0	18000	0.0	2.3	0.0	3.5
FUNK G-4574(3X)	135.5	22.3	17200	0.0	10.2	0.0	3.5
SUPERCROST 4242(SPX)	128.3	24.6	15600	0.0	4.4	0.9	3.6
SUPERCROST 5440A(SPX)	147.2	21.8	16500	0.0	2.6	0.0	3.5
SUPERCROST 4350(SPX)	157.0	22.1	18500	0.0	2.1	0.0	3.5
CFS 144(SX)	124.0	22.4	18900	0.0	5.9	0.0	3.8
CFS W220(SX)	158.7	24.6	18300	1.2	3.8	0.0	3.6
AMERICANA 3500A(SX)	162.6	23.6	19000	0.0	3.2	0.0	3.5
MUNCY CHIEF SX662(SX)	133.8	24.6	17300	7.9	2.5	0.0	3.5
MC ALLISTER 7408(SX)	123.5	23.9	18200	0.0	4.7	0.5	3.3
PFISTER 77(SX)	133.2	22.4	18800	0.0	8.1	0.0	3.6
PFISTER 75(SX)	142.1	23.3	17800	0.0	4.7	0.0	3.5
PFISTER 68(SX)	130.2	23.9	18000	1.7	5.6	0.0	3.5
PIONEER 3388(SPX)**	147.3	24.3	17700	0.0	5.6	0.0	3.3
TAYLOR-EVANS 6952(SX)	147.3	23.2	18500	0.0	2.2	0.0	3.5
TAYLOR-EVANS 6995(SX)	145.9	22.7	19200	0.0	3.1	0.4	3.3
FERRY-MORSE HULTING X880(SX)	145.7	22.8	19700	0.0	3.6	0.0	3.5
GROUP II MATURITY							
ACCO UC 8951(SX)	156.3	23.0	18700	0.0	5.5	0.5	3.5
ASGROW RX94(3X)	139.9	23.6	16700	0.0	2.9	0.5	3.6
ASGROW RX90(SX)	161.0	23.5	17600	1.1	4.7	1.1	3.6
BO-JAC X56(SX)	153.5	23.1	18300	0.0	1.7	0.0	3.5
BO-JAC X69(SX)	157.6	22.6	18700	1.0	2.6	0.0	3.5
BQ-JAC X566(SPX)	142.2	23.4	15800	0.0	5.1	0.0	3.6
BO-JAC X568(SPX)	147.9	23.6	18000	1.7	5.1	0.0	3.5
CARGILL 979(SX)**	121.2	22.2	18900	0.5	1.5	0.0	3.3
CARGILL 949(SX)**	145.0	21.9	17300	0.0	3.0	0.0	3.8
CARGILL 920(SX)**	136.9	24.5	18700	0.0	4.3	0.0	3.5
CARGILL 966(SX)	165.1	24.2	17900	0.0	4.6	0.0	3.6
CU-CP 2300(SX)	137.4	22.5	18500	0.0	3.8	0.5	3.5
DEKALB XL 81(SX)**	144.7	23.3	19400	0.0	2.6	0.0	3.5
DEKALB XL 72E(SX)**	138.7	23.8	14300	0.0	8.8	1.9	3.3
USS AGRI-CHEM. USS 1010(SX)	139.0	23.4	18700	0.0	0.5	0.0	3.5
USS AGRI-CHEM. USS 1515(SX)	141.5	23.1	18300	0.0	3.9	0.0	3.8
GOLDEN HARVEST H-2600(SX)**	115.3	23.7	17900	0.0	5.1	0.0	3.8
GOLDEN HARVEST H-2650(SX)**	156.3	21.6	16800	1.1	3.7	0.0	3.6
GOLDEN HARVEST H-2615(SPX)	120.6	24.8	15700	0.0	8.0	0.0	3.3
GOLDEN HARVEST H-2666(SX)	136.9	22.6	16400	0.0	8.2	0.0	3.6
RING AROUND RA1E01(SX)	150.7	23.2	18800	0.0	3.2	0.0	3.6
RING AROUND RA3502(3X)	130.0	24.5	18600	0.0	4.4	1.6	3.8
FEDERAL FX39(SX)	134.3	22.2	15500	0.0	5.3	0.0	3.6
FUNK G-4628(SX)**	128.3	23.9	18500	0.0	4.3	0.5	3.5
FUNK G-4611(SX)	134.4	22.8	20100	5.3	4.4	0.0	3.3
SUPERCROST S85(SX)**	136.2	24.1	17200	0.5	8.0	0.0	3.6
SUPERCROST 5440(SX)	138.1	24.0	16900	0.0	4.0	0.0	3.5
SUPERCROST S85A(SPX)	148.5	23.1	15400	0.7	2.6	0.0	3.5
HAPPEL MS-72(SX)	142.1	23.8	16400	0.0	3.6	0.0	3.6
HAPPEL 3361-A(3X)	134.4	24.6	17900	0.0	10.2	0.0	3.6
HAPPEL MS-79(3X)	142.1	23.4	15200	0.0	5.7	0.0	3.5
LEWIS X78B(SX)	146.5	22.8	17500	0.0	1.8	0.5	3.6
LEWIS X62B(SX)	136.5	24.6	16000	0.0	4.3	0.6	3.6
LEWIS X84B(SX)	120.8	22.3	19400	0.0	15.5	0.5	3.0
LEWIS EXP 77B(SX)	147.0	24.6	15400	0.7	9.2	0.0	3.8
LEWIS EXP X110B(SX)	129.0	23.6	19500	0.0	1.5	0.0	3.3
LEWIS EXP 247B(SX)	148.1	24.2	19500	0.0	3.7	0.0	4.0
LEWIS EXP X106B(SX)	141.7	23.5	18900	0.0	1.6	1.6	3.3
LEWIS EXP 405B(SX)	137.2	23.2	18900	0.0	4.3	0.0	3.3
LEWIS EXP 272B(SX)	142.7	22.1	16500	0.0	4.9	0.0	3.6
CFS 222(SX)	141.3	23.0	18400	0.0	1.6	0.0	3.8
M.F.A V-16(SX)**	175.5	23.0	19100	0.0	2.6	0.0	3.3
M.F.A 3030(DX)	144.0	21.4	18300	4.7	1.1	0.0	3.1
M.F.A 5802(SX)**	158.7	23.7	15100	0.0	2.8	0.0	3.5
M.F.A 5903(SPX)	126.3	23.8	20200	1.5	4.0	0.0	3.5

TABLE 13. (CCONTINUED).

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP II MATURITY							
AMERICANA 6700(SX)	149.0	22.5	18900	0.0	3.7	0.5	3.0
AMERICANA 3200(SX)	155.7	21.5	18300	0.5	2.2	0.0	3.5
AMERICANA 9500(3X)	138.8	23.2	18100	0.0	2.2	1.6	3.6
MUNCY CHIEF H764(DX)	139.4	23.8	17600	1.2	5.5	0.0	3.6
MUNCY CHIEF SX878(SX)	142.1	24.9	17500	0.0	2.4	0.5	3.6
MUNCY CHIEF SX777(SX)	159.7	22.3	18100	0.0	1.6	0.0	3.3
MUNCY CHIEF 3X898(3X)	143.2	23.3	18200	0.0	4.9	0.0	3.3
MC ALLISTER 6837(SX)	152.6	22.8	18000	2.2	1.6	0.0	3.5
MC CURDY MSX70(SX)	136.2	24.7	19400	0.0	7.3	0.0	3.3
MC CURDY MSX84(SX)	143.6	23.0	17700	0.0	4.5	0.0	3.5
MC CURDY MSX84A(SX)	157.8	23.6	18000	0.0	8.2	0.5	3.5
NORTHROP-KING PX-79(SX)	140.8	23.4	17200	0.0	1.8	0.0	3.6
NORTHROP-KING PX-74(SX)**	126.9	24.5	19200	0.0	5.3	0.0	4.0
NORTHROP-KING PX-675(3X)**	123.0	22.0	18400	0.4	14.5	0.0	3.3
C'S GOLD SX5500AB(SX)	150.5	23.8	16600	0.0	2.4	0.0	3.6
P-A-G SX98(SX)**	153.8	23.6	17600	0.0	5.1	0.0	3.6
P-A-G 357(SX)	139.7	23.1	18500	0.0	2.8	0.0	3.3
P-A-G 314(SX)	157.2	22.9	18800	0.0	1.1	0.0	3.6
P-A-G SX17A(SX)	134.1	21.3	19200	0.0	5.9	0.0	3.1
PIONEER 3369A(SX)**	150.3	23.2	15600	0.0	3.9	0.0	3.8
PIONEER 3219(DX)**	133.2	22.7	19200	0.0	3.2	0.0	3.3
TAYLOR-EVANS 6968(SX)	144.3	23.5	19400	1.0	2.6	0.5	3.3
TAYLOR-EVANS 6980(SX)	117.0	23.2	16900	0.0	2.3	0.0	3.5
THOR-O-BRED SX650(SX)	152.8	24.5	17100	0.0	4.0	0.6	3.5
THOR-O-BRED SX548(SX)	158.6	24.7	19200	0.0	4.7	0.0	3.5
THOR-O-BRED SX544(SX)	160.0	22.5	19500	0.0	3.6	0.5	3.1
THOR-O-BRED SC630(SPX)	161.7	23.2	19700	0.0	3.0	0.0	3.6
THOR-O-BRED SC599(SPX)	145.7	23.3	18900	0.0	3.3	0.0	3.5
TROJAN TXS119(SX)**	123.4	23.4	18900	0.0	1.1	0.0	3.6
TROJAN TX119A(3X)**	161.2	23.5	17900	0.0	5.8	0.0	3.5
TROJAN TXS115A(SX)**	175.8	22.8	19000	0.0	1.6	0.0	3.5
TROJAN TXS117A(SX)	134.9	22.1	18800	0.0	4.3	0.0	3.5
(M017 X B73)(SX)	133.0	22.8	17800	0.5	3.5	0.0	3.6
(M017 X N28)(SX)	134.9	22.5	17200	0.0	9.9	0.0	3.1
US 13(DX)	132.9	23.1	19100	0.0	6.5	0.0	3.5
WALTHER W271(DX)	141.3	23.4	19400	0.0	11.2	0.0	3.5
WALTHER W34(3X)	142.5	24.6	19600	0.0	5.2	0.5	3.6
WALTHER W80(DX)	146.5	23.6	19000	0.0	1.6	0.5	3.6
WALTHER W45(SX)	154.9	22.6	16900	0.0	5.8	0.0	3.3
WALTHER W239(DX)	151.5	23.5	18300	1.6	3.3	0.0	3.6
FERRY-MORSE HULTING X980(SX)	166.3	23.3	18100	0.0	2.1	0.5	3.5
FERRY-MORSE HULTINGX8800(3X)	151.5	23.6	18700	0.0	1.0	0.0	3.3
ZIMMERMAN Z11-W(SX)*	155.2	23.6	17500	0.0	7.7	0.6	3.5
ZIMMERMAN Z24-Y(SX)	150.8	23.0	19900	0.0	2.6	0.0	3.8
ZIMMERMAN Z52-W(3X)*	151.0	22.8	17900	0.0	3.3	0.0	3.3
ZIMMERMAN Z20-Y(SX)	136.1	23.1	19300	0.0	1.5	0.5	3.5
ZIMMERMAN Z19-W(SPX)*	134.7	24.1	17000	0.0	2.3	0.0	3.5
GROUP III MATURITY							
BO-JAC X7L(SX)	148.3	22.2	17900	0.5	0.5	0.0	3.5
BO-JAC X83(SX)**	147.7	24.6	16900	0.0	4.2	0.5	3.5
BO-JAC X52B(SX)	138.4	23.7	19600	0.0	3.5	0.0	3.5
BO-JAC X923(SX)	136.4	21.5	18700	1.4	2.5	0.0	3.5
CO-OP 2318(SX)	134.3	23.4	16300	0.0	5.2	0.0	3.6
FEDERAL FX59(SX)	155.6	23.1	16200	0.6	1.2	0.0	3.8
FUNK G-4747W(SX)*	118.2	21.5	19400	0.0	2.6	2.1	3.3
BROWNING 22725XA(SPX)	135.7	22.3	16800	1.3	1.2	0.5	3.6
CFS W401(SX)	119.3	23.6	14400	0.0	8.9	0.0	3.5
CFS E4100(SX)	139.0	23.2	16900	0.0	6.9	0.0	3.6
MC CURDY MSX88(SX)	151.5	24.5	18400	0.0	4.5	0.0	3.6
P-A-G SX70W(SX)**	135.1	18.9	17500	1.0	8.0	0.0	3.6
TAYLOR-EVANS 6947(SX)	129.7	23.2	18100	0.0	6.8	0.0	3.5
TROJAN T1210(SX)	160.7	22.5	15600	0.0	1.3	0.0	3.5
GROUP IV MATURITY							
CFS 405(SX)	164.3	23.0	18400	0.0	8.6	0.6	4.3
AVERAGE	142.9	23.3	17812	0.3	4.6	0.2	3.5

LSD AT 5% LEVEL IS 30.3 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.
 LSD AT 20% LEVEL IS 19.4 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.
 **WHITE HYBRID
 ***WIDELY GROWN HYBRIDS.

TABLE 14. PERFORMANCE RECORD OF HYBRIDS EVALUATED AT THE AGRONCMY RESEARCH CENTER (ARC-
BRADFORD FARM) NEAR COLUMBIA, MISSOURI (BOONE COUNTY) DURING THE 2-YEAR PERIOD
1976-77 AND THE 3-YEAR PERIOD 1975-77.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE	LODGING		DROPPED	EAR	ACRE	LODGING		DROPPED	EAR
	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)
GROUP 1 MATURITY										
FERRY-MORSE HULTING X880(SX)	96.5	0.6	2.1	0.0	3.1	99.9	7.1	8.9	0.2	3.3
TAYLOR-EVANS 6995(SX)	99.5	0.0	2.9	0.2	3.1	-	-	-	-	-
TAYLOR-EVANS 6992(SX)	99.3	0.0	2.3	0.0	3.3	-	-	-	-	-
PIONEER 3388(SPX)**	89.7	0.0	3.1	0.0	2.8	88.4	1.7	5.3	0.0	2.9
MC ALLISTER 740R(SX)	86.8	0.0	2.3	0.5	3.1	-	-	-	-	-
MUNCY CHIEF SX662(SX)	74.9	3.9	3.2	0.0	2.8	71.2	3.4	21.4	0.0	3.0
SUPERCROST 4350(SPX)	106.3	0.0	1.1	0.0	3.1	-	-	-	-	-
SUPERCROST 4242(SPX)	84.5	0.8	5.3	0.4	3.2	83.7	1.1	23.2	0.9	3.2
FUNK G-4520(SX)	82.4	0.7	10.3	0.0	3.1	-	-	-	-	-
FUNK G-4503(SX)**	99.8	1.6	5.9	0.3	3.3	97.9	3.9	16.4	0.4	3.3
FUNK G-4507(SX)**	104.6	0.0	4.7	0.0	3.4	104.8	7.5	7.4	0.2	3.4
BO-JAC X33(SX)	95.4	0.0	4.0	0.0	3.3	-	-	-	-	-
GROUP 2 MATURITY										
FERRY-MORSE HULTING X980(SX)	109.4	0.6	1.9	0.3	3.1	96.1	2.3	15.7	0.2	3.3
WALTHER W239(DX)	97.0	0.8	2.6	0.0	3.1	87.5	1.6	25.0	0.2	3.1
WALTHER W45(SX)	100.8	0.0	4.3	0.0	2.8	97.4	4.1	16.5	0.2	3.1
WALTHER W80(DX)	90.1	0.0	2.6	0.3	3.1	84.1	0.4	23.8	0.4	3.1
WALTHER W271(DX)	88.1	0.0	6.8	0.3	2.9	85.7	2.8	17.3	0.8	3.2
US 13(DX)	81.3	0.0	4.1	0.0	3.1	73.4	0.9	27.7	0.6	3.3
(MD17 X B73)(SX)	84.8	0.5	2.3	0.0	3.2	89.7	6.8	5.5	0.4	3.4
TRCJAN TXS117A(SX)	86.8	0.6	3.1	0.0	3.0	85.9	4.0	13.8	0.4	3.3
TRCJAN TXS115A(SX)**	116.4	0.0	1.1	0.0	3.1	109.4	8.0	3.2	0.0	3.3
TRCJAN TX119A(SX)**	102.8	0.0	3.3	0.3	3.1	-	-	-	-	-
TRCJAN TXS119(SX)**	88.3	0.0	0.6	0.0	3.1	86.0	1.5	12.8	0.2	3.3
TAYLOR-EVANS 6980(SX)	83.1	0.0	1.4	0.0	2.9	82.7	0.6	14.2	0.0	3.2
TAYLOR-EVANS 6968(SX)	77.6	0.5	10.9	1.0	2.8	77.4	3.0	29.6	0.9	3.0
PIONEER 3219(DX)**	80.1	0.3	2.3	0.0	3.1	81.6	1.4	10.5	0.3	3.2
PIONEER 3369A(SX)**	94.4	0.0	2.8	0.0	3.1	99.1	2.1	13.1	0.0	3.3
P-A-G 314(SX)	107.8	0.0	0.8	0.0	3.1	-	-	-	-	-
P-A-G SX9R(SX)**	106.6	0.0	3.6	0.0	3.3	100.2	2.2	13.4	0.4	3.4
NORTHROP-KING PX-675(3X)**	88.1	0.2	7.8	0.0	3.1	89.8	5.3	9.7	0.4	3.3
NORTHROP-KING PX-74(SX)**	84.4	0.0	2.6	0.0	3.3	86.0	8.0	5.4	0.2	3.4
MC CURDY MSX84(SX)	97.3	0.0	3.0	0.0	3.0	95.5	16.2	5.5	0.4	3.2
MC CURDY MSX70(SX)	91.3	0.0	4.0	0.0	2.9	89.8	4.9	15.5	0.0	3.2
MC ALLISTER 6837(SX)	102.8	1.1	2.4	0.0	3.1	100.4	3.4	8.5	0.2	3.2
MUNCY CHIEF 3X898(3X)	97.8	0.0	5.3	0.0	2.8	85.8	2.0	13.8	0.5	3.1
MUNCY CHIEF SX777(SX)	103.0	0.0	1.7	0.0	3.1	90.7	2.1	4.5	0.4	3.3
MUNCY CHIEF SX878(SX)	92.8	0.0	2.3	0.3	3.1	84.5	1.5	17.3	0.4	3.3
MUNCY CHIEF H764(DX)	91.0	0.6	3.4	0.0	3.1	82.1	1.5	16.3	0.0	3.3
AMERICANA 9600(3X)	93.9	0.0	1.3	0.8	3.2	-	-	-	-	-
AMERICANA 3200(SX)	100.3	0.3	1.1	0.0	2.8	-	-	-	-	-
AMERICANA 6700(SX)	102.0	0.0	2.1	0.3	3.0	89.7	0.5	11.3	0.2	3.2
M.F.A 5802(SX)**	104.7	0.0	2.2	0.0	3.1	-	-	-	-	-
M.F.A 3030(DX)	101.8	2.3	2.3	0.0	2.8	93.5	5.0	7.5	0.7	3.1
M.F.A V-16(SX)**	113.8	0.0	2.3	0.0	3.0	102.4	5.1	11.5	0.4	3.2
LEWIS X84B(SX)	85.2	0.0	9.0	0.3	2.6	85.1	1.7	22.5	0.8	3.1
LEWIS X62B(SX)	89.6	0.0	2.4	0.3	3.1	93.9	11.4	8.7	0.2	3.3
LEWIS X78B(SX)	95.5	0.0	1.6	0.3	3.1	91.7	1.7	7.6	0.2	3.1
HAPPEL 3361-A(3X)	89.9	0.0	6.4	0.0	3.1	-	-	-	-	-
HAPPEL MS-72(SX)	96.3	0.0	2.6	0.0	2.9	92.9	2.5	10.8	0.2	3.2
SUPERCROST 5440(SX)	92.9	0.0	2.3	0.0	3.1	92.8	5.8	5.3	0.2	3.3
SUPERCROST S85(SX)**	99.3	0.3	4.7	0.3	3.1	90.3	1.0	17.9	0.9	3.2
FUNK G-4611(SX)	87.0	2.6	2.5	0.0	3.0	-	-	-	-	-
FUNK G-4628(SX)**	91.9	0.0	3.6	0.3	3.1	94.3	0.4	10.1	0.2	3.3
RING ARROUND RA1501(SX)	102.6	0.0	1.9	0.0	3.1	-	-	-	-	-
GOLDEN HARVEST H-2650(SX)**	103.8	0.6	1.8	0.0	3.1	-	-	-	-	-
USS AGRI-CHEM. USS 1515(SX)	99.6	0.0	2.5	0.3	3.3	94.3	3.4	9.4	0.8	3.4
USS AGRI-CHEM. USS 1010(SX)	91.6	0.0	0.5	0.0	3.1	93.0	5.1	2.4	0.2	3.3
DEKALB XL 72E(SX)**	95.6	0.6	5.3	0.9	2.8	-	-	-	-	-
DEKALB XL 81(SX)**	100.6	0.0	2.7	0.0	3.3	94.8	0.4	24.9	0.0	3.4
CO-OP 2300(SX)	94.3	0.3	2.6	0.6	3.3	85.6	7.4	8.1	0.4	3.5
CARGILL 920(SX)**	101.6	0.0	3.0	0.0	3.1	95.9	0.7	12.8	0.2	3.3
CARGILL 949(SX)**	101.5	0.0	2.3	0.0	3.4	97.8	9.0	4.8	0.2	3.5
CARGILL 979(SX)**	79.8	0.3	1.5	0.0	3.0	81.2	2.6	12.1	0.6	3.2
BO-JAC X69(SX)	102.9	0.5	1.3	0.0	3.3	99.7	8.6	4.0	0.0	3.5
BO-JAC X56(SX)	102.8	0.0	0.8	0.0	3.3	99.2	12.2	5.7	0.4	3.4
ACCO UC 8951(SX)	101.8	0.0	3.3	0.3	3.1	-	-	-	-	-
GROUP 3 MATURITY										
P-A-G SX70W(SX)**	89.9	0.5	6.9	0.0	3.1	-	-	-	-	-
FEDERAL FX59(SX)	100.9	0.3	0.9	0.0	3.1	94.7	4.7	12.8	0.6	3.3

TABLE 14. CCNT.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LDDGING ROOT STALK (%) (%)		DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LDDGING ROOT STALK (%) (%)		DROPPED EARS (%)	EAR HEIGHT (FT)
CO-OP 2318(SX)	89.1	0.3	3.3	0.0	3.1	86.7	2.7	10.0	0.2	3.3
BO-JAC X83(SX)**	92.9	0.0	3.3	0.5	2.9	94.5	0.4	6.7	0.3	3.2
BO-JAC X7L(SX)	106.5	0.3	0.3	0.0	3.1	97.4	4.5	10.4	0.4	3.3
AVERAGE	95.3	0.3	3.2	0.1	3.1	91.2	3.9	12.4	0.3	3.3

*WHITE HYBRID.

**WIDELY GROWN HYBRID

TABLE 15. PERFORMANCE RECORD OF CORN HYBRIDS GROWN AT TWO CENTRAL MISSOURI LOCATIONS (CARRCLL AND BCCNE CCUNTIES) IN 1977.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LOGGED PLANTS ROOT STALK (%) (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	
GROUP 1 MATURITY (2-LOCATION AVERAGE)							
BO-JAC X37(SX)	136.9	21.6	17900	13.8	4.5	0.5	3.4
BO-JAC X33(SX)	141.7	20.1	18300	7.6	5.7	0.5	3.6
USS AGRI-CHEM. USS 0550A(SX)	125.2	21.6	18250	13.7	5.8	0.3	3.4
GOLDEN HARVEST H-2500(SX)	125.7	20.8	12400	4.6	4.8	0.8	3.4
FUNK G-4507(SX)**	136.7	21.4	17850	16.1	6.4	0.8	3.6
FUNK G-4503(SX)**	131.8	20.9	15350	16.5	6.6	1.4	3.5
FUNK G-4520(SX)	121.2	21.7	13400	15.3	11.9	0.0	3.1
FUNK G-4553(SX)	132.5	21.8	17900	11.7	8.6	1.7	3.1
FUNK G-4525(SX)	123.3	21.0	17950	5.1	4.2	1.1	3.3
FUNK G-4574(SX)	125.2	20.3	17550	8.9	7.6	0.3	3.3
SUPERCROST 4242(SPX)	115.6	21.6	16200	8.3	6.4	1.3	3.2
SUPERCROST 5440A(SPX)	120.9	20.5	16150	15.3	5.8	0.3	3.5
SUPERCROST 4350(SPX)	132.9	20.6	17950	11.3	4.1	0.7	3.4
AMERICANA 3500A(SX)	138.9	21.3	17900	5.6	3.8	0.6	3.3
PIGNEER 3388(SPX)**	111.9	21.6	17150	3.8	4.4	0.0	2.9
TAYLOR-EVANS 6992(SX)	129.9	21.0	18450	6.1	6.8	1.6	3.3
FERRY-MORSE HULTING X880(SX)	141.6	20.8	19400	16.6	4.1	0.6	3.3
GROUP 2 MATURITY (2-LOCATION AVERAGE)							
ACCO UC 8951(SX)	139.5	21.3	18000	7.1	5.1	0.8	3.3
ASGFOW RX90(SX)	142.8	21.2	17850	8.6	4.5	0.6	3.3
HO-JAC X56(SX)	134.7	20.9	17700	8.8	2.1	0.6	3.3
BO-JAC X69(SX)	141.0	20.4	18550	9.6	5.6	1.0	3.3
BO-JAC X56B(SPX)	137.0	21.1	18200	16.1	3.9	0.3	3.3
CARGILL 979(SX)**	107.1	20.9	16900	0.3	4.1	1.0	3.1
CARGILL 949(SX)**	147.0	20.4	17550	10.4	2.3	0.0	3.6
CARGILL 920(SX)**	125.3	21.3	17700	6.2	4.6	0.0	3.3
CARGILL 966(SX)	133.0	21.8	17050	18.0	2.9	0.0	3.4
CO-OP 2300(SX)	121.7	20.5	17850	22.1	3.8	0.9	3.3
DEKALB XL 81(SX)**	119.5	21.6	17350	13.1	4.3	0.8	3.1
DEKALB XL 72E(SX)**	114.1	21.4	14400	4.1	7.3	1.3	2.9
USS AGRI-CHEM. USS 1010(SX)	128.6	21.2	18650	22.6	2.1	0.8	3.1
USS AGRI-CHEM. USS 1515(SX)	131.3	21.4	17500	0.8	4.4	0.3	3.4
GOLDEN HARVEST H-2600(SX)**	113.9	21.0	16750	5.4	4.1	0.9	3.4
GOLDEN HARVEST H-2650(SX)**	122.6	20.1	16200	6.6	4.3	0.6	3.1
GOLDEN HARVEST H-2615(SPX)	107.9	22.0	14700	5.0	6.9	0.7	3.1
RING AROUND RA1501(SX)	139.9	21.1	18850	6.1	2.9	0.6	3.4
RING AROUND RA3502(3X)	109.9	23.1	18150	13.3	8.9	1.1	3.6
FUNK G-4628(SX)**	111.6	21.8	16750	0.8	5.4	0.5	3.1
FUNK G-4611(SX)	118.1	20.9	18200	14.5	4.3	0.3	3.2
SUPERCROST S85(SX)**	100.5	21.1	16300	29.4	6.9	2.1	3.1
SUPERCROST S440(SX)	131.2	21.3	17700	10.1	4.1	0.6	3.4
SUPERCROST S85A(SPX)	117.8	21.4	15600	13.0	3.9	0.0	3.3
HAPPEL MS-72(SX)	120.2	21.4	16200	5.1	12.5	0.3	3.4
HAPPEL 3361-A(3X)	113.6	21.9	17550	12.0	9.3	0.9	3.3
HAPPEL MS-79(3X)	131.2	21.0	14950	2.8	17.3	0.7	3.3
LEWIS X78B(SX)	132.7	20.6	17900	0.6	4.2	0.5	3.3
LEWIS X62B(SX)	127.8	21.7	17300	7.8	3.6	1.4	3.4
LEWIS X84B(SX)	117.4	21.6	17800	16.2	10.3	0.7	2.9
LEWIS EXP 77B(SX)	134.9	21.9	15700	6.6	11.1	0.0	3.4
LEWIS EXP X110B(SX)	127.3	21.0	19000	10.6	2.4	0.0	3.2
LEWIS EXP 247B(SX)	135.0	21.4	19050	6.4	9.0	0.8	3.5
LEWIS EXP X106B(SX)	138.6	21.8	18750	11.3	4.9	1.6	3.1
LEWIS EXP 405B(SX)	138.9	21.3	19200	3.3	3.9	0.6	3.3
LEWIS EXP 272B(SX)	141.9	20.6	17300	5.1	3.3	0.0	3.6
M.F.A V-16(SX)**	137.8	21.3	18100	3.7	5.6	0.6	3.1
M.F.A S802(SX)**	124.4	21.3	14450	8.8	3.8	0.7	3.1
M.F.A 5903(SPX)	123.2	21.0	19000	8.6	6.3	0.5	3.3
AMERICANA 6700(SX)	128.5	20.6	17300	0.9	8.3	0.3	2.9
AMERICANA 3200(SX)	147.6	20.0	18300	1.3	4.3	0.5	3.4
AMERICANA 9500(3X)	114.2	21.5	16850	7.6	3.0	1.1	3.4
MUNCY CHIEF SX878(SX)	104.1	22.0	14950	3.2	17.2	1.5	3.2
MUNCY CHIEF SX777(SX)	132.3	20.9	17350	7.1	5.1	0.6	3.1
MC CURDY MSX70(SX)	135.2	21.6	18750	7.1	4.5	0.8	3.1
MC CURDY MSX84(SX)	129.1	20.9	17650	11.9	11.4	1.1	3.1
NORTHROP-KING PX-79(SX)	127.9	20.7	18650	12.4	2.4	1.2	3.4
NORTHROP-KING PX-74(SX)**	129.1	21.6	19600	11.3	3.8	0.0	3.5
NORTHROP-KING PX-675(3X)**	116.7	20.3	17700	8.6	8.6	0.6	3.2
P-A-G SX98(SX)**	125.2	21.7	17000	1.1	5.9	1.1	3.2
P-A-G 357(SX)	117.1	21.1	17000	4.9	7.3	1.0	3.1

TABLE 15. CCNT.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED EARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
F-A-G 314(SX)	131.7	20.8	18050	8.8	3.9	1.3	3.4
PIONEER 3369A(SX)**	124.4	21.2	16000	15.8	4.7	0.9	3.4
PICNEER 3219(DX)**	102.9	21.0	18050	4.8	2.5	0.0	3.1
TAYLOR-EVANS 6968(SX)	121.3	20.8	18800	3.1	4.5	0.4	3.1
TROJAN TXS119(SX)**	111.3	21.8	17900	8.1	2.3	0.9	3.2
TROJAN TX119A(3X)**	134.0	21.5	17550	2.6	4.9	1.1	3.3
TROJAN TXS115A(SX)**	158.5	20.9	19000	1.7	2.9	0.4	3.4
TROJAN TXS117A(SX)	128.6	20.6	18300	3.6	5.9	0.8	3.3
(MO17 X B73)(SX)	119.3	20.6	17250	5.6	4.3	0.9	3.3
(MO17 X N28)(SX)	122.6	20.6	16900	0.8	9.1	0.3	3.1
US 13(DX)	94.4	20.9	17300	10.1	17.3	1.3	3.3
WALTHER W271(DX)	128.4	21.0	18700	10.8	9.3	0.6	3.3
WALTHER W34(3X)	124.0	21.9	17650	10.6	5.5	1.3	3.3
WALTHER W8C(DX)	105.6	21.0	17300	7.4	7.0	1.6	3.2
WALTHER W239(DX)	127.1	20.9	16900	10.7	7.3	1.5	3.4
FERRY-MORSE HULLING X980(SX)	145.0	21.5	17400	3.6	5.1	0.3	3.4
FERRY-MORSE HULLINGX8800(3X)	128.3	21.4	17800	10.0	3.1	0.0	3.2
GROUP 3 MATURITY (2-LOCATION AVERAGE)							
BO-JAC X7L(SX)	126.9	20.5	17250	1.4	7.2	0.8	3.1
BO-JAC X83(SX)**	124.6	22.1	16900	13.4	6.8	0.5	3.1
BO-JAC X923(SX)	136.8	20.6	18700	7.5	6.6	2.1	3.3
CO-OP 2318(SX)	114.4	22.8	15500	0.3	4.9	0.6	3.1
FUNK G-4747W(SX)*	106.0	20.8	17200	10.9	4.9	2.9	3.4
MC CURDY MSX88(SX)	135.3	22.1	17900	4.8	6.0	0.3	3.3
P-A-G SX70W(SX)***	115.4	19.7	16500	9.0	9.7	0.3	3.3
TROJAN T1210(SX)	124.4	20.3	15900	2.6	5.3	1.8	3.3
AVERAGE	126.2	21.2	17360	8.5	5.9	0.8	3.3

*WHITE HYBRID.

***WIDELY GROWN HYBRID.

TABLE 16. PERFORMANCE RECORD OF HYBRIDS EVALUATED AT THE DELTA CENTER (PEMISCOT COUNTY) IN 1977.
PLANTED: 1 APRIL 1977. HARVESTED: 25 AUGUST 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP I MATURITY							
FUNK G-4507(SX)**	118.0	18.5	18900	0.0	4.8	0.0	3.7
FUNK G-4503(SX)**	134.1	16.0	18600	0.0	2.9	0.0	3.2
FUNK G-4520(SX)	117.8	17.0	15200	0.0	5.8	0.0	3.5
TAYLOR-EVANS 6992(SX)	120.2	16.0	17500	0.7	3.8	0.0	4.2
TAYLOR-EVANS 6995(SX)	94.6	16.5	15100	0.0	0.7	0.0	3.5
GROUP II MATURITY							
ASGROW RX100(SX)**	102.9	24.5	18800	0.0	14.7	0.0	3.0
ASGROW RX94(3X)	112.4	21.0	17300	0.0	3.2	0.0	4.0
ASGROW RX90(SX)	135.4	16.0	18800	0.0	2.2	0.0	3.5
CARGILL 979(SX)**	98.8	17.0	17100	0.0	13.7	0.0	3.2
CARGILL 949(SX)**	144.8	17.0	21100	0.0	0.6	0.0	3.5
CARGILL 966(SX)	107.7	17.0	17000	0.7	5.9	0.0	3.8
DEKALB XL 81(SX)**	115.0	17.5	18800	0.0	8.7	0.0	3.8
USS AGRI-CHEM. USS 1010(SX)	131.1	17.0	19100	0.6	2.7	0.0	3.7
USS AGRI-CHEM. USS 1515(SX)	138.9	17.5	18100	0.0	3.0	2.9	4.0
GOLDEN HARVEST H-2650(SX)**	86.6	17.0	16900	0.0	19.0	1.4	3.2
RING AROUND RA3502(3X)	108.4	17.5	19500	0.0	7.7	0.0	3.7
FUNK G-4611(SX)	97.7	17.0	17500	5.4	6.2	0.7	4.3
LEWIS EXP X106B(SX)	148.2	25.0	20600	0.0	4.3	0.0	4.2
M.F.A 3030(DX)	114.0	18.5	18600	0.0	10.2	0.0	3.5
M.F.A 5903(SPX)	112.2	16.0	17100	0.7	6.6	0.8	3.2
MUNCY CHIEF SX878(SX)	104.4	18.0	15300	0.0	17.7	0.0	3.5
MC CURDY MSP888(3X)	121.0	17.5	18800	0.0	3.6	0.0	3.2
NORTHRUP-KING PX-74(SX)**	105.1	18.5	20300	2.7	2.9	0.0	4.0
NORTHRUP-KING PX-675(3X)**	105.9	15.5	21200	0.0	3.6	0.0	3.5
O'S GOLD SX5353(SX)	119.1	15.5	17500	0.0	3.0	0.0	3.7
O'S GOLD SX5500AB(SX)	103.0	16.5	17700	0.0	19.9	0.0	3.7
P-A-G SX98(SX)**	100.0	17.0	17400	0.0	5.7	3.8	2.5
P-A-G 357(SX)	95.1	16.0	17300	0.0	7.8	4.7	3.0
PIONEER 3368A(SX)**	83.3	16.5	17300	0.0	23.0	0.7	4.1
PIONEER 3184(SX)	147.6	18.0	20300	1.3	8.7	2.0	4.5
PRINCETON SX840(SX)	137.5	19.5	20100	2.7	0.0	0.0	4.0
TAYLOR-EVANS 6968(SX)	116.9	16.5	19200	0.0	1.4	0.0	2.7
TROJAN TXS119(SX)**	77.3	17.0	16300	0.0	33.2	1.6	3.2
TROJAN TXS115A(SX)**	139.7	16.0	20100	0.0	3.8	0.0	3.7
US 13(DX)	95.3	16.0	16400	0.0	10.4	3.9	3.2
ZIMMERMAN Z11-W(SX)*	136.1	20.0	19100	2.0	1.3	0.0	4.4
GROUP III MATURITY							
ACCO UC 9792(SX)	125.9	19.5	20300	0.7	2.4	0.0	4.5
BO-JAC X83(SX)**	132.4	20.0	17800	0.0	2.2	1.6	3.5
BO-JAC X923(SX)	114.6	19.5	17700	0.0	11.5	0.0	3.5
GOLDEN HARVEST H-2750(3X)	93.4	20.0	16300	0.7	6.0	0.7	3.0
FUNK G-4747W(SX)*	120.7	22.5	17100	20.1	13.3	1.5	4.0
BROWNING 22725XA(SPX)	116.2	19.5	16600	0.0	8.0	0.0	3.6
MC CURDY 72-44A(SX)	138.1	18.0	18800	0.7	3.6	0.0	4.0
MC NAIR X-300(SX)	108.7	19.5	15300	0.0	10.1	0.0	3.0
MC NAIR S-338(3X)	104.6	21.0	18600	0.0	10.2	1.4	4.2
NORTHRUP-KING PX-95(SX)	118.5	20.0	18500	0.0	29.9	0.7	5.0
TAYLOR-EVANS 6947(SX)	102.9	19.5	19500	0.6	2.0	0.0	3.5
TROJAN T1210(SX)	96.3	16.0	18000	0.7	0.7	2.2	4.2
GROUP IV MATURITY							
MC CURDY 67-14(SX)	72.3	23.5	17300	0.0	19.6	0.0	2.7
AVERAGE	113.7	18.2	18116	0.8	8.0	0.6	3.6

LSD AT 5% LEVEL IS 37.2 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.
LSD AT 20% LEVEL IS 24.9 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.

**WHITE HYBRID
***WIDELY GROWN HYBRIDS.

TABLE 17. PERFORMANCE RECORD OF HYBRIDS EVALUATED AT THE DELTA CENTER NEAR POFTAGEVILLE, MO. (PEMISCCT COUNTY) DURING THE 2-YEAR PERIOD 1975 & 1977 AND THE 3-YEAR PERIOD 1974, 1975, AND 1977.

BRAND--HYBRIC	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE	LOGGING		DROPPED	EAR	ACRE	LOGGING		DROPPED	EAR
	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)	YIELD (BU)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)
	GROUP 1 MATURITY									
FUNK G-4503(SX)**	123.9	0.0	4.3	0.6	3.0	-	-	-	-	-
FUNK G-4507(SX)**	108.8	0.9	7.4	0.3	3.4	110.2	1.1	5.6	0.3	3.4
	GROUP 2 MATURITY									
US 13(CX)	75.4	5.9	13.1	2.7	3.2	74.6	4.8	11.3	1.8	3.2
TROJAN TXS11EA(SX)**	110.2	0.0	6.1	0.9	3.6	108.5	0.5	4.7	0.8	3.4
TROJAN TXS119(SX)**	78.4	0.0	19.7	0.8	3.7	84.0	0.0	14.0	0.5	3.1
TAYLOR-EVANS 6568(SX)	105.6	0.0	3.6	0.0	2.8	103.8	0.4	3.1	0.0	2.7
PIONEER 3368A(SX)**	93.8	0.3	14.8	0.6	3.6	-	-	-	-	-
P-A-G SX98(SX)**	94.8	0.0	4.5	2.2	2.8	94.9	0.0	3.0	1.5	2.7
MC CURDY MSP888(3X)	109.6	0.0	5.4	0.3	3.1	113.4	0.2	3.6	0.2	3.1
MUNCY CHIEF SX878(SX)	91.5	0.0	13.7	0.8	3.1	95.7	0.3	9.8	0.7	3.1
M.F.A 3030(CX)	91.0	0.0	7.8	0.3	3.3	94.7	0.2	6.1	0.2	3.1
GOLDEN HARVEST H-2650(SX)**	89.4	0.0	13.1	1.0	3.1	-	-	-	-	-
USS AGRI-CHEM. USS 1515(SX)	119.7	0.0	3.8	1.7	3.6	-	-	-	-	-
USS AGRI-CHEM. USS 1010(SX)	108.9	1.4	4.0	0.7	3.4	-	-	-	-	-
DEKALB XL 81(SX)**	109.0	0.0	8.1	0.5	3.5	105.7	0.0	6.0	0.3	3.2
ASGROW RX100(SX)**	92.5	0.0	11.6	2.1	3.0	94.0	0.0	9.2	1.6	2.9
	GROUP 3 MATURITY									
NORTHRUP-KING PX-95(SX)	116.7	0.0	17.6	0.3	4.4	-	-	-	-	-
FUNK G-4747H(SX)*	117.6	12.9	10.6	1.0	3.8	-	-	-	-	-
GOLDEN HARVEST H-2750(3X)	93.3	0.3	7.0	0.7	3.1	-	-	-	-	-
BO-JAC X83(SX)**	122.5	0.3	3.1	1.4	3.3	119.7	0.2	2.6	1.0	3.0
AVERAGE	102.5	1.1	9.2	0.9	3.3	100.2	0.6	6.7	0.7	3.1

**WHITE HYBRIC.
***WIDELY GROWN HYBRID

TABLE 18. PERFORMANCE RECORD FOR HYBRIDS EVALUATED AT THE C. G. SCOTT FARM NEAR MATTHEWS, MISSOURI (NEW MADRID COUNTY) IN 1977. PLANTED: 12 APRIL 1977. HARVESTED: 1 SEPTEMBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	FAR HEIGHT (FT)
GROUP I MATURITY							
GOLDEN HARVEST H-2500(SX)	106.9	17.5	14400	4.5	0.0	0.7	3.9
FUNK G-4507(SX)**	147.8	17.6	19400	10.7	1.4	0.4	3.8
FUNK G-4503(SX)**	166.5	17.8	20700	0.8	1.8	0.0	4.0
FUNK G-4520(SX)	139.3	18.7	18800	10.6	0.0	0.0	4.1
FUNK G-4553(3X)	165.1	18.9	21900	0.0	3.6	0.0	4.3
FUNK G-452E(SX)	157.3	16.8	21900	0.3	1.1	0.0	4.5
TAYLOR-EVANS 6992(SX)	140.3	17.8	19500	7.3	0.4	0.0	4.5
TAYLOR-EVANS 6955(SX)	168.5	19.3	20100	3.3	0.9	0.0	4.1
GROUP II MATURITY							
ACCO UC 8951(SX)	168.1	20.3	21200	10.8	0.8	0.3	4.3
ASGROW RX100(SX)**	154.8	21.3	21100	23.6	0.7	0.0	4.0
ASGROW RX94(3X)	147.9	21.5	18900	0.0	1.4	0.0	5.0
ASGROW XX100A(SX)	150.2	20.0	21500	22.5	0.7	0.0	4.3
ASGROW RX90(SX)	160.8	17.6	20500	1.9	1.3	0.4	3.6
ASGROW RX4589(SX)	157.5	20.0	21800	4.2	6.1	0.0	4.0
BO-JAC X56(SX)	177.8	17.8	20800	10.2	1.7	0.0	4.0
BC-JAC X56E(SPX)	169.3	18.8	20900	9.7	0.4	0.0	4.1
CARGILL 979(SX)**	131.8	19.8	19400	3.4	5.1	0.0	4.0
CARGILL 949(SX)**	170.3	17.5	20300	1.3	0.8	0.0	3.5
CARGILL 920(SX)**	141.1	16.6	20400	2.2	4.0	0.0	4.6
CARGILL 966(SX)	164.0	17.7	20700	7.0	3.4	0.0	4.1
CO-OP 2300(SX)	155.2	17.6	19300	12.8	2.3	0.0	4.1
DEKALB XL 81(SX)**	131.2	21.8	19000	3.1	0.0	0.0	4.6
DEKALB XL 72B(SX)**	146.2	19.8	16200	9.0	1.1	0.0	4.0
USS AGRI-CHEM. USS 1010(SX)	149.7	17.6	20100	4.0	1.5	0.0	3.8
USS AGRI-CHEM. USS 1515(SX)	159.3	20.7	19700	3.7	5.1	0.0	4.5
GOLDEN HARVEST H-2650(SX)**	140.1	18.6	19100	2.1	2.4	0.0	4.5
GOLDEN HARVEST H-2666(SX)	151.5	19.7	17900	5.1	2.4	0.0	4.0
RING AROUND RA1501(SX)	157.7	18.1	20700	0.4	3.0	0.0	4.6
RING AROUND RA3502(3X)	148.0	19.8	19900	0.0	4.4	0.0	4.3
FUNK G-4628(SX)**	148.7	19.6	19300	1.8	5.7	0.0	4.1
FUNK G-4611(SX)	148.6	18.9	19000	1.0	0.9	0.0	4.5
LEWIS X788(SX)	130.2	19.0	21100	1.7	7.3	0.0	4.0
LEWIS X84B(SX)	137.9	21.5	18900	38.6	0.0	0.0	4.2
LEWIS EXP X106B(SX)	180.4	20.3	20300	0.4	2.2	0.0	4.2
M.F.A V-16(SX)**	148.6	19.1	19600	1.8	4.1	0.4	4.1
M.F.A 3C30(3X)	130.0	21.1	19400	5.4	3.7	0.0	3.8
M.F.A 5802(SX)**	147.9	18.3	17500	0.0	1.4	0.0	4.3
M.F.A 5903(SPX)	145.2	18.1	18500	11.1	1.4	0.0	4.3
MUNCY CHIEF SX878(SX)	139.6	18.8	17400	17.4	1.0	0.0	4.8
MUNCY CHIEF SX777(SX)	150.2	20.0	18100	9.6	1.5	0.4	4.1
MC CURDY MSP888(3X)	152.4	18.8	21500	0.4	3.3	0.0	4.1
MC NAIR X-233(SX)*	151.2	23.3	20800	6.1	1.2	0.3	5.1
MC NAIR X-194(SX)	138.1	19.6	20300	8.6	3.5	0.0	3.8
NORTRUP-KING PX-79(SX)	175.4	17.4	20200	0.8	3.2	0.4	4.5
NORTRUP-KING PX-74(SX)**	155.3	18.2	20100	20.3	2.9	0.0	4.5
NORTRUP-KING PX-675(3X)**	164.5	18.2	19300	0.4	1.8	0.0	4.3
NORTRUP-KING PX-715(3X)	173.3	22.5	19800	9.4	0.4	0.0	5.3
O'S GOLD SX5500(SX)**	122.8	18.8	19600	4.1	6.6	0.4	3.8
O'S GOLD SX5353(SX)	132.0	18.5	17200	7.6	2.1	0.5	4.5
O'S GOLD SX5500AB(SX)	139.3	17.3	18600	5.7	2.0	0.0	4.3
P-A-G SX98(SX)**	145.7	19.5	20000	0.9	4.1	0.0	3.6
P-A-G 357(SX)	130.0	18.6	21100	2.5	3.4	0.0	3.5
P-A-G 314(SX)	141.1	17.3	19000	2.2	1.2	0.0	3.8
P-A-G SX17A(SX)	149.6	19.2	20900	20.7	0.4	0.0	4.5
PIONEER 3369A(SX)**	175.1	18.4	19100	0.0	1.9	0.0	4.5
PIONEER 3368A(SX)**	158.0	19.0	18800	10.9	5.0	0.0	4.5
PIONEER 3184(SX)	176.2	21.3	19500	1.9	0.4	0.8	4.8
PRINCETON SX910(SX)*	156.2	25.3	21300	0.0	1.6	0.0	5.0
PRINCETON SX840(SX)	162.2	20.4	20100	8.1	0.0	0.0	4.1
TAYLOR-EVANS 6968(SX)	135.3	23.1	21400	3.3	0.4	0.0	3.8
TROJAN TXS119(SX)**	135.7	20.1	19000	3.0	3.3	0.0	4.3
TROJAN TX119A(3X)**	146.1	19.3	20500	0.0	6.5	0.0	4.2
TROJAN TXS115A(SX)**	158.2	18.5	19000	11.9	0.4	0.0	4.0
TROJAN TXS117A(SX)	142.4	19.0	19900	21.1	0.4	0.0	4.0
(MO17 X B73)(SX)	159.0	18.0	20300	8.4	0.8	0.0	3.3
(MO17 X N28)(SX)	131.2	19.0	20400	0.8	8.0	0.0	3.9
US 13(DX)	117.5	17.3	21700	7.6	20.5	1.0	4.0
WALTHER W271(DX)	136.7	17.3	21700	1.1	2.8	0.3	4.0
WALTHER W34(3X)	161.6	20.0	19300	0.9	1.9	0.0	5.0
WALTHER W80(DX)	128.5	17.0	21000	0.7	6.2	0.0	3.5

TABLE 18. (CONTINUED).

BRAND-HYBR ID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LOGGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP II MATURITY							
WALTHER W239(DX)	138.3	19.0	19000	1.8	3.6	0.9	4.3
ZIMMERMAN Z11-W(SX)*	146.3	23.6	20100	13.3	1.3	0.0	5.3
ZIMMERMAN Z24-Y(SX)	178.7	19.8	20200	5.5	1.8	0.0	4.6
GROUP III MATURITY							
ACCO UC 5792(SX)	107.1	21.5	19700	6.8	1.7	0.0	4.3
ASGROW RX114(3X)	157.7	20.8	21400	12.9	3.3	0.0	4.8
BO-JAC X83(SX)**	166.5	21.9	19600	2.9	0.0	0.0	4.1
BO-JAC X923(SX)	163.8	20.9	18900	0.4	1.4	0.4	4.5
CO-OP 2318(SX)	126.7	20.3	18500	2.4	3.9	0.0	4.3
GOLDEN HARVEST H-2660W(SPX)*	134.6	25.0	18900	8.6	2.3	0.0	4.6
GOLDEN HARVEST H-2750(3X)	113.3	21.5	18400	4.2	2.1	0.0	5.0
FUNK G-4747W(SX)*	138.7	24.3	19400	15.2	0.0	0.4	4.8
FUNK G-4848(SX)	146.8	28.6	20400	11.3	0.4	0.0	5.0
HRDWINING 2272SXA(SPX)	138.7	20.0	19200	0.0	4.2	0.9	3.6
MC CURDY 72-44A(SX)	153.9	18.3	18400	2.0	4.9	0.0	4.8
MC NAIR X-300(SX)	154.0	23.5	19600	2.7	2.2	0.0	4.0
MC NAIR S-338(3X)	160.2	22.3	20600	5.1	0.9	0.4	4.5
NORTHROP-KING PX-95(SX)	178.0	23.6	19000	17.6	1.9	0.0	5.5
TAYLOR-EVANS 6947(SX)	126.6	21.5	20700	6.6	1.3	0.0	4.8
TROJAN T1210(SX)	126.0	18.9	18200	0.0	2.6	1.5	4.3
GROUP IV MATURITY							
MC CURDY 67-14(SX)	126.7	26.6	20700	30.7	4.4	0.0	5.0
AVERAGE	148.5	19.8	19750	6.5	2.5	0.1	4.3

LSD AT 5% LEVEL IS 19.9 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.
LSD AT 20% LEVEL IS 12.7 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.

*WHITE HYBRID

**WIDELY GROWN HYBRIDS.

TABLE 19. PERFORMANCE RECORD OF CORN HYBRIDS GROWN AT TWO SOUTHEAST MISSOURI LOCATIONS (PEMISCOT AND NEW MADRID COUNTIES) IN 1977.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED FARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
GROUP 1 MATURITY (2-LOCATION AVERAGE)							
FUNK G-4507(SX)**	132.9	18.1	19150	5.3	3.1	0.2	3.8
FUNK G-4503(SX)**	150.3	16.9	19650	0.4	2.3	0.0	3.6
FUNK G-4520(SX)	128.5	17.8	17000	5.3	2.9	0.0	3.8
TAYLOR-EVANS 6952(SX)	130.2	16.9	18500	4.0	2.1	0.0	4.3
TAYLOR-EVANS 6995(SX)	131.5	17.9	17600	1.6	0.8	0.0	3.8
GROUP 2 MATURITY (2-LOCATION AVERAGE)							
ASGROW RX100(SX)**	128.8	22.9	19950	11.8	7.7	0.0	3.5
ASGPCW RX94(3X)	130.1	21.3	18100	0.0	2.3	0.0	4.5
ASGROW RX90(SX)	148.1	16.8	19650	0.9	1.8	0.2	3.6
CARGILL 979(SX)**	115.3	18.4	18250	1.7	9.4	0.0	3.6
CARGILL 949(SX)**	157.5	17.3	20700	0.7	0.7	0.0	3.5
CARGILL 966(SX)	135.8	17.3	18850	3.8	4.6	0.0	3.9
DEKALB XL 81(SX)**	123.1	19.6	18900	1.6	4.3	0.0	4.2
USS AGRI-CHEM. USS 1010(SX)	140.4	17.3	19600	2.3	2.1	0.0	3.8
USS AGRI-CHEM. USS 1515(SX)	149.1	19.1	18900	1.8	4.1	1.4	4.3
GOLDEN HARVEST H-2650(SX)**	113.4	17.8	18000	1.1	10.7	0.7	3.8
RING AROUND RA3502(3X)	128.2	18.6	19700	0.0	6.0	0.0	4.0
FUNK G-4611(SX)	123.1	17.9	18250	3.2	3.5	0.3	4.4
LEWIS EXP X106B(SX)	164.3	22.6	20450	0.2	3.3	0.0	4.2
M.F.A 3030(DX)	122.0	19.8	19000	2.7	6.9	0.0	3.6
M.F.A 5903(SPX)	128.7	17.1	17800	5.9	4.0	0.4	3.8
MUNCY CHIEF SX878(SX)	122.0	18.4	16350	8.7	9.3	0.0	4.1
MC CURDY MSP888(3X)	136.7	18.1	20150	0.2	3.4	0.0	3.6
NORTHRUP-KING PX-74(SX)**	130.2	18.3	20200	11.5	2.9	0.0	4.3
NORTHRUP-KING PX-675(3X)**	135.2	16.8	20250	0.2	2.7	0.0	3.9
O'S GOLD SX5353(SX)	125.6	17.0	17350	3.8	2.6	0.3	4.1
C'S GOLD SX5500AH(SX)	121.1	16.9	18150	2.8	10.9	0.0	4.0
P-A-G SX98(SX)**	122.8	18.3	18700	0.4	4.9	1.9	3.1
P-A-G 357(SX)	112.6	17.3	19200	1.3	5.6	2.3	3.3
PIONEER 3368A(SX)**	120.6	17.8	18050	5.4	14.0	0.3	4.3
PIONEER 3184(SX)	161.9	19.6	19900	1.6	4.5	1.4	4.6
PRINCETON SX840(SX)	149.8	19.9	20100	5.4	0.0	0.0	4.1
TAYLOR-EVANS 6968(SX)	126.1	19.8	20300	1.6	0.9	0.0	3.3
TROJAN TXS119(SX)**	106.5	18.6	17650	1.5	18.2	0.8	3.8
TROJAN TXS115A(SX)**	148.9	17.3	19550	5.9	2.1	0.0	3.8
US 13(DX)	106.4	16.6	19050	3.8	15.4	2.4	3.6
ZIMMERMAN Z11-W(SX)*	141.2	21.8	19600	7.6	1.3	0.0	4.8
GROUP 3 MATURITY (2-LOCATION AVERAGE)							
ACCO UC 9792(SX)	116.5	20.5	20000	3.8	2.0	0.0	4.4
BO-JAC X83(SX)**	149.4	20.9	18700	1.4	1.1	0.8	3.8
BO-JAC X923(SX)	139.2	20.2	18300	0.2	6.4	0.2	4.0
GOLDEN HARVEST H-2750(3X)	103.3	20.8	17350	2.4	4.1	0.3	4.0
FUNK G-4747W(SX)*	129.7	23.4	18250	17.6	6.6	0.9	4.4
BROWNING 2272SXA(SPX)	127.4	19.8	17900	0.0	6.1	0.4	3.6
MC CURDY 72-44A(SX)	146.0	18.1	18600	1.3	4.3	0.0	4.4
MC NAIP X-300(SX)	131.3	21.5	17450	1.3	6.1	0.0	3.5
MC NAIP S-338(3X)	132.4	21.6	19600	2.6	5.5	0.9	4.3
NORTHRUP-KING PX-95(SX)	148.2	21.8	18750	8.8	15.9	0.3	5.3
TAYLOR-EVANS 6947(SX)	114.7	20.5	20100	3.6	1.6	0.0	4.1
TROJAN T1210(SX)	111.1	17.4	18100	0.3	1.6	1.8	4.3
AVERAGE	131.2	19.0	18867	3.3	5.1	0.4	4.0

*WHITE HYBRID.
**WIDELY GROWN HYBRID.

TABLE 20. PERFORMANCE OF CORN HYBRIDS EVALUATED ON THE CLAYPAN RESEARCH STATION NEAR KINGDOM CITY, MISSOURI (CALLAWAY COUNTY) IN 1977. PLANTED: 14 APRIL 1977. HARVESTED 3 OCTOBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LOGGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP I MATURITY							
BURRUS BX20(SX)	145.3	20.9	19300	2.1	2.1	0.0	3.8
BURRUS BX14(SX)	152.4	18.7	20900	2.4	3.9	0.9	3.3
GOLDEN HARVEST H-2500(SX)	Poor Stand	20.0	13300	2.4	5.5	3.2	4.1
FUNK G-4507(SX)**	166.9	19.8	21400	0.9	5.1	0.9	4.1
FUNK G-4520(SX)	146.2	20.5	17900	4.9	2.5	0.0	3.8
CFS 144(SX)	130.0	19.1	18900	1.5	2.0	0.5	3.6
MC ALLISTER 7408(SX)	156.4	20.1	20100	1.8	2.8	0.5	4.0
NC+ 59(SX)	176.4	20.6	22000	6.6	3.5	0.0	3.8
PFISTER 75(SX)	156.7	20.0	21200	3.7	4.1	0.0	3.8
PFISTER 68(SX)	150.6	19.8	21800	7.1	1.4	0.0	4.1
TAYLOR-EVANS 6992(SX)	152.7	19.8	20600	5.2	8.1	0.4	4.3
TAYLOR-EVANS 6995(SX)	159.8	20.5	21100	2.8	5.2	0.9	4.0
FERRY-MORSE HULTING X880(SX)	136.3	20.8	17500	3.5	4.4	0.5	4.0
GROUP II MATURITY							
ACCO UC 8951(SX)	169.3	22.3	21900	0.0	7.6	0.0	4.1
ACCO U393(3X)	152.0	21.9	21800	2.7	7.8	0.9	4.5
ASGROW XX100A(SX)	152.8	21.0	18900	18.9	4.0	1.1	4.1
ASGROW PX90(SX)	154.8	19.9	18500	6.6	3.2	0.0	3.6
BU-JAC X56(SX)	144.6	20.0	21400	7.0	2.3	0.9	4.0
CARGILL 920(SX)**	174.3	20.7	20000	1.0	3.4	0.0	4.3
CARGILL 966(SX)	155.7	20.9	19400	5.0	3.1	0.0	4.1
CD-OP 2300(SX)	151.0	20.0	20200	2.8	1.9	0.0	4.1
USS AGRI-CHEM. USS 1010(SX)	143.1	20.2	21000	8.9	7.6	0.0	4.0
USS AGRI-CHEM. USS 1515(SX)	160.6	22.1	20400	0.0	5.0	0.4	3.8
GOLDEN HARVEST H-2650(SX)**	176.1	22.3	19900	1.0	2.6	1.5	4.1
RING AROUND RA1501(SX)	143.2	20.6	15500	9.7	2.3	0.4	4.0
RING AROUND RA3502(3X)	141.1	21.3	21100	0.0	4.7	0.0	3.8
FEDERAL FX39(SX)	148.3	20.1	19400	4.6	3.0	0.6	4.1
FRONTIER SX244(SX)	150.0	19.6	21600	2.6	3.7	0.4	4.0
FRONTIER SX234(SX)	177.6	20.3	22500	1.3	1.3	0.0	3.8
SUPERCROST S85(SX)**	Plot Damage	18.8	16000	7.1	3.2	0.0	3.0
SUPERCROST 5440(SX)	156.3	20.3	20500	1.5	3.9	0.5	4.0
HAPPEL MS-72(SX)	140.1	21.7	20300	0.0	5.3	0.0	3.6
HAPPEL 3361-A(3X)	117.9	19.8	19000	1.7	10.8	0.6	3.6
IOWA-MISSOURI SX18(SX)	148.8	21.8	21200	0.0	6.1	0.0	3.6
IOWA-MISSOURI SX19(SX)	148.3	21.3	21400	2.3	2.8	0.9	4.0
LEWIS X78B(SX)	156.6	21.7	23300	0.4	6.9	0.0	3.8
LEWIS X62B(SX)	130.2	20.2	17900	2.7	2.2	1.6	4.0
CFS 222(SX)	145.2	20.1	20000	1.4	3.0	0.4	3.8
M*F*A 5802(SX)**	148.1	20.0	19700	0.0	1.5	1.0	4.1
M*F*A 5903(SPX)	150.3	20.3	21700	3.1	2.8	0.0	4.0
AMERICANA 6700(SX)	171.4	21.7	21200	0.0	3.8	0.0	3.8
AMERICANA 4700(SX)	166.6	19.8	20200	5.8	3.0	1.0	3.8
MUNCY CHIEF SX878(SX)	118.7	21.5	20000	0.5	6.4	0.0	3.8
MUNCY CHIEF SX777(SX)	131.0	20.7	18800	0.0	5.1	0.5	4.1
MC ALLISTER 7300A(SX)	164.8	22.7	20700	0.4	2.8	0.6	4.0
MC CURDY MSX84(SX)	169.6	20.6	18100	0.0	1.2	0.0	3.8
MC NAIR X-194(SX)	136.4	21.2	20400	0.0	8.4	0.0	3.8
NC+ 76(3X)	155.6	21.0	20600	1.1	2.7	0.0	3.5
NORTHROP-KING PX-74(SX)**	135.0	20.7	19300	1.4	6.8	1.9	3.8
NORTHROP-KING PX-675(3X)**	147.0	20.0	19700	0.0	3.5	0.5	4.0
D'S GOLD SX5500(SX)**	154.3	22.0	19400	0.0	2.5	1.0	3.8
C'S GOLD SX5500A(SX)**	160.8	20.4	20000	0.9	2.4	0.0	4.0
P-A-G 357(SX)	139.2	20.4	20200	0.4	7.1	0.0	4.0
P-A-G 314(SX)	157.7	19.4	21300	1.4	0.4	0.0	4.0
PIONEER 3184(SX)	160.3	22.9	21300	3.2	3.2	0.0	3.8
PIONEER 3360(SX)	144.4	20.1	19100	2.8	2.1	2.4	4.5
PRINCETON SX910(SX)*	142.8	22.6	21800	13.9	4.6	1.3	4.3
PRINCETON SX840(SX)	152.7	21.5	20100	3.2	3.7	0.9	4.5
THOR-O-BRED SX650(SX)	144.6	22.1	18400	2.9	3.7	0.6	3.6
THOR-O-BRED SX544(SX)	151.9	20.9	19600	9.3	1.6	0.4	3.8
TROJAN TX5115A(SX)**	152.3	20.5	20100	4.6	4.3	1.3	3.6
WEATHER MASTER EPX888(SX)	146.4	20.7	21300	3.1	4.4	0.8	3.6
WEATHER MASTER EPX888C(SX)	153.2	20.1	21200	5.7	1.5	0.5	3.6
WALTHER W80(DX)	153.0	19.1	21700	4.5	5.7	0.0	3.5
FERRY-MORSE HULTING X980(SX)	147.8	21.9	18100	0.0	6.0	0.6	3.8
ZIMMERMAN Z24-Y(SX)	148.0	21.1	22300	0.4	3.5	0.0	4.1
ZIMMERMAN Z20-Y(SX)	166.8	21.5	21600	5.7	8.0	1.3	4.5

TABLE 2C. (CONTINUED).

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LODGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP III MATURITY							
BO-JAC X7L(SX)	129.7	21.5	19200	0.0	2.5	0.0	3.5
CO-OP 2318(SX)	144.7	22.5	19200	0.0	2.1	0.5	3.6
FEDERAL FX59(SX)	148.9	21.7	19100	1.1	2.0	0.0	4.0
BROWNING 22725XA(SPX)	127.9	22.1	19700	1.4	12.4	0.0	3.8
MC CURDY MSX88(SX)	147.3	21.6	21200	1.4	7.1	1.4	4.0
AVERAGE	149.1	20.8	20075	2.9	4.1	0.5	3.9

LSD AT 5% LEVEL IS 32.6 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 OF 20 TIMES GROWN.

LSD AT 20% LEVEL IS 20.8 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 OF 20 TIMES GROWN.

*WHITE HYBRID

**WIDELY GROWN HYBRIDS.

TABLE 21. PERFORMANCE RECORD OF HYBRIDS EVALUATED UNDER IRRIGATION AT THE CLAYPAN RESEARCH STATION (CRS) NEAR MCCREDIE, MD. (CALLAWAY COUNTY) DURING THE 2-YEAR PERIOD 1976-77 AND THE 3-YEAR PERIOD 1975-77.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LOADING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LOADING ROOT (%)	STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP 1 MATURITY										
FERRY-MORSE HULTING X880(SX)	138.0	1.8	2.2	0.3	4.0	-	-	-	-	-
TAYLOR-EVANS 6595(SX)	154.2	1.4	2.8	0.7	3.8	-	-	-	-	-
NC+ 59(SX)	160.6	3.3	2.1	0.0	3.8	-	-	-	-	-
MC ALLISTER 7408(SX)	150.9	0.9	1.4	0.4	3.8	157.2	1.4	3.4	0.4	3.9
FUNK G-4507(SX)**	161.7	0.4	3.0	0.4	3.9	171.9	4.8	4.7	0.6	4.0
GROUP 2 MATURITY										
FERRY-MORSE HULTING X980(SX)	144.1	0.0	4.2	0.3	3.6	148.3	0.0	5.8	0.5	3.8
WALTHER W80(CX)	140.9	2.3	2.8	0.0	3.5	-	-	-	-	-
WEATHER MASTER EPX888(SX)	117.2	1.6	2.5	0.4	3.6	-	-	-	-	-
TROJAN TXS115A(SX)**	157.1	2.3	2.1	0.7	3.6	155.3	3.7	4.2	0.7	3.8
THOR-O-BRED SX650(SX)	137.0	1.4	3.0	0.3	3.6	-	-	-	-	-
PRINCETON SX840(SX)	135.8	1.6	1.8	0.7	4.0	-	-	-	-	-
PRINCETON SX910(SX)*	153.2	6.9	2.9	0.7	4.8	154.5	8.6	4.9	0.8	4.9
PIONEER 3184(SX)	162.2	1.6	1.6	0.9	3.6	167.1	3.6	1.4	1.0	3.9
P-A-G 314(SX)	158.1	0.7	0.2	0.0	4.0	-	-	-	-	-
O'S GOLD SX5500A(SX)**	141.1	0.4	1.2	0.0	4.6	145.6	1.7	3.0	0.0	4.3
O'S GOLD SX5500(SX)**	130.6	0.0	1.3	0.5	3.4	137.1	0.6	3.2	0.5	3.7
NORTHRUP-KING FX-675(3X)**	140.9	0.0	2.4	0.3	3.9	144.5	1.4	4.3	0.4	4.0
NORTHRUP-KING PX-74(SX)**	128.8	0.7	3.4	0.9	3.8	-	-	-	-	-
NC+ 76(3X)	153.0	0.6	1.5	0.0	3.5	-	-	-	-	-
MC NAIR X-194(SX)	138.6	0.3	4.9	0.0	3.8	138.4	0.8	5.7	0.3	3.8
MC CUDY MSX84(SX)	160.1	0.0	0.6	0.0	3.8	159.0	0.9	4.0	0.2	3.9
MUNCY CHIEF SX878(SX)	117.2	0.3	4.1	0.0	3.5	126.3	6.1	5.9	0.0	3.7
AMERICANA 6700(SX)	157.4	0.0	2.1	0.0	3.6	158.1	0.3	2.7	0.3	3.8
M.F.A 5802(SX)**	147.0	0.0	0.8	0.5	4.1	-	-	-	-	-
LEWIS X788(SX)	151.2	0.2	3.7	0.0	3.6	-	-	-	-	-
IOWA-MISSOURI SX19(SX)	159.6	1.1	2.2	0.4	3.8	162.2	2.0	4.8	0.5	3.9
SUPERCRCST 5440(SX)	153.7	0.8	1.9	0.3	3.8	151.6	1.5	3.2	0.2	3.9
FRONTIER SX244(SX)	137.2	1.6	1.8	0.2	3.8	-	-	-	-	-
RING AROUND RA1501(SX)	136.6	4.8	1.1	0.2	3.8	-	-	-	-	-
USS AGRI-CHEM. USS 1515(SX)	142.5	0.0	2.5	0.2	3.6	142.7	0.0	3.9	0.6	3.8
USS AGRI-CHEM. USS 1010(SX)	152.4	4.4	3.8	0.0	3.8	-	-	-	-	-
CO-OP 2300(SX)	124.3	1.4	0.9	0.3	3.8	-	-	-	-	-
CARGILL 920(SX)**	145.4	0.5	2.5	0.0	3.8	144.4	0.9	3.9	0.0	3.9
BO-JAC X56(SX)	159.7	3.5	1.5	0.6	4.0	-	-	-	-	-
ASGRDW RX90(SX)	150.3	3.3	1.6	0.0	3.6	151.2	2.2	3.7	0.6	3.8
ACCO UC 8951(SX)	168.2	0.0	3.8	0.0	3.9	-	-	-	-	-
GROUP 3 MATURITY										
FEDERAL FX59(SX)	143.9	0.6	1.5	0.3	3.8	-	-	-	-	-
CO-OP 2318(SX)	120.5	0.0	1.1	0.6	3.4	125.4	0.0	1.5	0.6	3.7
BO-JAC X71(SX)	137.5	0.0	1.5	0.0	3.5	-	-	-	-	-
AVERAGE	145.4	1.3	2.2	0.3	3.8	149.5	2.1	3.9	0.4	3.9

*WHITE HYBRID.
**WIDELY GROWN HYBRID

TABLE 22. PERFORMANCE OF CORN HYBRIDS EVALUATED ON THE SOUTHWEST CENTER NEAR MT. VERNON, MISSOURI (LAWRENCE COUNTY) IN 1977.
PLANTED: 5 APRIL 1977. HARVESTED: 20 SEPTEMBER 1977.

BRAND-HYBRID	ACRE YIELD (BU)	MOISTURE IN GRAIN (%)	PLANTS PER ACRE (#)	LOGGED ROOT (%)	PLANTS STALK (%)	DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP I MATURITY							
BURRUS BX20(SX)	151.8	20.1	21300	0.0	2.6	0.0	3.3
BURRUS BX14(SX)	121.4	19.3	22300	0.4	5.1	0.4	2.8
GOLDEN HARVEST H-2500(SX)	127.9	19.7	16000	0.0	6.9	0.6	3.3
FUNK G-4507(SX)**	144.5	19.8	23300	0.0	10.4	1.3	3.5
FUNK G-4520(SX)	126.1	20.5	17800	0.0	4.4	0.5	3.0
CFS 144(SX)	127.1	19.1	23300	0.0	9.0	0.9	3.3
MC ALLISTER 7408(SX)	144.8	20.3	17700	0.0	4.0	0.5	3.5
NC+ 59(SX)	168.9	19.8	24500	0.0	4.9	0.0	3.6
PFISTER 75(SX)	155.6	19.4	22000	1.0	11.0	0.5	3.3
PFISTER 68(SX)	114.9	20.2	23100	0.0	12.6	14.0	3.0
TAYLOR-EVANS 6992(SX)	149.2	20.0	24900	0.0	5.7	0.4	3.5
TAYLOR-EVANS 6995(SX)	140.6	20.7	23200	0.8	6.2	0.0	3.3
FERRY-MORSE HULTING X880(SX)	157.5	19.7	23100	1.3	6.1	0.8	3.5
GROUP II MATURITY							
ACCO UC 8951(SX)	161.3	20.5	22500	1.4	7.1	0.9	3.6
ACCO U393(3X)	144.5	21.0	24000	0.0	7.2	1.7	3.3
ASGROW X100A(SX)	161.2	20.7	22800	0.4	4.4	0.4	3.6
ASGROW RX90(SX)	158.4	19.6	21800	1.3	7.5	0.4	3.5
BO-JAC X56(SX)	164.8	19.7	25400	0.0	7.9	0.0	3.3
CARGILL 920(SX)**	165.6	20.0	24500	0.0	3.7	1.2	3.6
CARGILL 966(SX)	153.1	20.5	21400	0.0	7.9	0.0	3.5
CO-OP 2300(SX)	144.4	19.6	21800	0.9	5.6	0.6	3.3
USS AGRI-CHEM. USS 1010(SX)	151.8	20.1	21100	1.0	3.8	0.9	3.3
USS AGRI-CHEM. USS 1515(SX)	119.6	21.3	22400	1.3	9.3	1.8	3.1
GOLDEN HARVEST H-2650(SX)**	142.3	21.6	20500	0.0	5.4	1.3	3.1
RING AROUND RA1501(SX)	150.5	20.3	22000	0.0	6.0	0.0	3.3
RING AROUND RA3502(3X)	151.4	21.4	24000	0.4	9.8	1.3	3.3
FEDERAL FX39(SX)	134.5	20.0	18500	0.0	6.7	2.5	3.3
FRONTIER SX244(SX)	152.1	21.2	22400	0.0	8.1	2.5	3.1
FRONTIER SX234(SX)	171.2	19.8	22500	0.4	2.3	0.8	3.6
SUPERCROST 585(SX)**	Plot Damage	19.3	19500	1.7	18.3	0.5	2.5
SUPERCROST 5440(SX)	137.9	20.2	20900	0.0	7.3	0.0	3.3
HAPPEL MS-72(SX)	131.4	21.1	23900	2.1	10.2	2.5	3.0
HAPPEL 3361-A(3X)	95.5	20.2	22100	0.8	20.4	4.5	3.0
IOWA-MISSOURI SX18(SX)	136.0	21.2	22300	0.4	9.1	0.4	3.5
IOWA-MISSOURI SX19(SX)	143.2	20.0	23300	0.0	8.9	2.6	3.5
LEWIS X78B(SX)	117.1	20.8	20000	0.4	11.1	0.5	3.3
LEWIS X62B(SX)	156.6	19.8	22200	0.0	5.8	0.0	3.3
CFS 222(SX)	160.2	19.9	24000	0.4	9.3	1.2	3.8
M.F.A 5802(SX)**	126.9	19.3	18600	0.0	6.1	1.0	3.3
M.F.A 5903(SPX)	132.2	19.9	23300	0.4	10.5	2.2	3.6
AMERICANA 6700(SX)	119.1	21.3	23200	0.8	12.3	2.6	3.3
AMERICANA 4700(SX)	133.4	20.0	21600	0.0	6.6	0.9	3.1
MUNCY CHIEF SX878(SX)	130.5	20.6	20700	0.0	4.2	0.0	3.5
MUNCY CHIEF SX777(SX)	137.6	21.0	24200	0.0	5.0	1.2	3.3
MC ALLISTER 7300A(SX)	152.7	21.6	23400	0.0	10.4	2.6	3.1
MC CURDY MSX84(SX)	157.5	19.4	21000	0.0	3.7	0.9	3.1
MC NAIR X-194(SX)	124.6	20.5	20100	0.4	12.3	0.5	3.1
NC+ 76(3X)	146.5	21.0	24000	2.2	10.7	1.3	3.3
NORTHRUP-KING PX-74(SX)**	163.2	20.1	25600	0.7	5.5	0.4	3.3
NORTHRUP-KING PX-675(3X)**	149.3	20.4	19500	1.5	3.1	0.0	3.5
C'S GOLD SX5500(SX)**	112.6	21.3	20400	0.0	11.7	3.8	3.1
O'S GOLD SX5500A(SX)**	136.2	19.6	19900	0.5	4.6	0.5	3.6
P-A-G 357(SX)	121.3	20.2	22000	0.0	13.4	0.0	3.1
P-A-G 314(SX)	144.4	19.5	22600	0.0	5.2	0.4	3.6
PIONEER 3184(SX)	165.7	22.5	23300	0.0	4.1	0.4	3.6
PIONEER 3360(SX)	160.3	20.3	22200	0.0	5.0	0.4	3.3
PRINCETON SX910(SX)*	180.7	22.3	24400	0.8	9.6	1.7	4.1
PRINCETON SX840(SX)	151.5	21.6	21200	0.0	1.9	0.0	3.1
THOR-O-BRED SX65C(SX)	137.1	21.0	21700	0.9	8.8	0.5	3.1
THOR-O-BRED SX544(SX)	151.9	20.2	23500	1.7	7.0	2.2	3.1
TRJAN TXS115A(SX)**	174.4	20.1	22500	0.4	4.5	0.9	3.1
WEATHER MASTER EPX888C(SX)	171.5	19.9	24500	0.0	4.5	0.8	3.5
WEATHER MASTER EPX888C(SX)	145.4	20.1	21200	0.0	6.1	0.8	3.3
WALTHER W80(DX)	108.0	20.0	23200	0.8	16.3	1.7	3.0
FERRY-MORSE HULTING X980(SX)	156.0	21.9	22600	0.0	8.8	0.0	3.3
ZIMMERMAN Z24-Y(SX)	164.4	20.2	25200	0.0	2.3	1.1	3.5
ZIMMERMAN Z20-Y(SX)	175.3	20.5	24300	0.0	5.4	0.8	3.5

TABLE 22. (CONTINUED).

BRAND-HYBRID	ACRE	MOISTURE	PLANTS	LOGGED PLANTS		DROPPED	EAR
	YIELD (BU)	IN GRAIN (%)	PER ACRE (#)	ROOT (%)	STALK (%)	EARS (%)	HEIGHT (FT)
GROUP III MATURITY							
BO-JAC X7L(SX)	114.0	20.5	22500	2.4	14.7	0.9	3.1
CO-OP 2318(SX)	138.4	21.4	22100	0.0	10.4	1.3	3.3
FEDERAL FX59(SX)	119.6	21.5	18300	2.6	10.2	1.6	3.1
BROWNING 2272SXA(SPX)	120.0	21.1	20400	1.5	12.8	1.0	3.1
MC CURDY MSX88(SX)	145.4	21.0	23000	0.8	10.6	1.3	3.3
AVERAGE	142.6	20.4	22145	0.5	7.8	1.2	3.3

LSD AT 5% LEVEL IS 22.9 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 19 CF 20 TIMES GROWN.

LSD AT 20% LEVEL IS 14.7 BUSHELS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE MAY BE EXPECTED TO DIFFER SIGNIFICANTLY IN YIELD 16 CF 20 TIMES GROWN.

*WHITE HYBRID

**WIDELY GROWN HYBRIDS.

TABLE 23. PERFORMANCE RECORD OF HYBRIDS EVALUATED UNDER IRRIGATION AT THE SOUTHWEST CENTER NEAR MT. VERNON, MD. (LAWRENCE COUNTY) DURING THE 2-YEAR PERIOD 1975 & 1977 AND THE 3-YEAR PERIOD 1974, 1975, & 1977.

BRAND--HYBRID	2-YEAR AVERAGE					3-YEAR AVERAGE				
	ACRE YIELD (BU)	LOGGING		DROPPED EARS (%)	EAR HEIGHT (FT)	ACRE YIELD (BU)	LOGGING		DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP 1 MATURITY										
MC ALLISTER 7408(SX)	152.2	1.6	9.3	0.4	3.8	155.2	1.6	9.6	0.6	3.9
FUNK G-4507(SX)**	155.9	1.9	11.3	1.2	3.5	162.0	1.8	12.1	1.1	3.6
BURRUS FX20(SX)	155.8	2.8	7.6	0.2	3.5	-	-	-	-	-
GROUP 2 MATURITY										
FERRY-MORSE HULTING X980(SX)	167.6	0.2	7.7	0.0	3.5	172.4	0.4	7.0	0.3	3.5
TROJAN TXS115A(SX)**	161.4	3.6	7.4	1.3	3.6	162.3	3.0	7.8	0.9	3.6
PRINCETON SX910(SX)*	163.6	6.4	15.4	1.4	4.1	-	-	-	-	-
PIONEER 3184(SX)	161.4	1.7	6.9	1.9	3.8	-	-	-	-	-
O'S GOLD SX5500A(SX)**	145.5	0.3	6.4	0.4	3.6	153.3	0.9	8.4	0.6	3.7
O'S GOLD SX5500(SX)**	129.7	0.6	10.3	2.1	3.4	143.2	0.4	9.5	1.4	3.5
NORTHRUP-KING PX-675(3X)**	152.5	1.9	4.4	0.2	3.6	-	-	-	-	-
MC NAIR X-194(SX)	141.6	2.5	13.9	0.6	3.4	-	-	-	-	-
MC CURDY MSX84(SX)	161.2	1.8	6.3	0.4	3.4	-	-	-	-	-
MUNCY CHIEF SX878(SX)	139.8	3.2	10.3	0.3	3.6	145.2	5.5	13.0	0.2	3.6
AMERICANA 6700(SX)	135.2	0.6	9.8	1.5	3.6	135.1	0.7	10.5	1.4	3.5
IOWA-MISSOURI SX19(SX)	148.4	2.5	7.7	1.3	3.5	156.3	1.7	6.6	0.9	3.5
SUPERCRCST 5440(SX)	140.7	1.5	8.8	0.0	3.5	-	-	-	-	-
SUPERCROST 585(SX)**	109.3	1.9	13.7	0.4	3.1	120.9	1.6	10.9	0.3	3.2
GOLDEN HARVEST H-2650(SX)**	154.7	0.8	5.9	0.7	3.4	-	-	-	-	-
USS AGRI-CHEM. USS 1515(SX)	136.6	0.8	9.3	1.3	3.6	-	-	-	-	-
CARGILL 920(SX)**	152.8	1.1	4.8	0.8	3.7	-	-	-	-	-
ASGROW RX90(SX)	158.6	2.8	8.1	1.4	3.6	158.7	1.9	8.9	0.9	3.7
GROUP 3 MATURITY										
MC CURDY MSX88(SX)	159.8	1.9	10.2	0.8	3.5	162.2	1.3	9.6	0.6	3.5
CO-OP 2318(SX)	148.6	0.8	8.3	0.7	3.4	-	-	-	-	-
AVERAGE	149.3	1.9	8.9	0.8	3.6	152.2	1.7	9.5	0.8	3.6

*WHITE HYBRID.

**WIDELY GROWN HYBRID

TABLE 24. PERFORMANCE RECORD OF CORN HYBRIDS GROWN UNDER IRRIGATION AT TWO MISSOURI LOCATIONS (CALLAWAY AND LAWRENCE COUNTIES) IN 1977.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS ROOT STALK (%) (%)		DROPPED EARS (%)	EAR HEIGHT (FT)
GROUP 1 MATURITY (2-LOCATION AVERAGE)							
BURRUS 8X20(SX)	148.5	20.5	20300	1.1	2.4	0.0	3.6
BURRUS 8X14(SX)	136.9	19.0	21600	1.4	4.5	0.6	3.1
GOLDEN HARVEST H-2500(SX)	120.8	19.8	14650	1.2	6.2	1.9	3.7
FUNK G-4507(SX)**	152.7	19.8	22350	0.4	7.8	1.1	3.8
FUNK G-4520(SX)	136.1	20.5	17850	2.4	3.4	0.3	3.4
CFS 144(SX)	128.5	19.1	21100	0.8	5.5	0.7	3.4
MC ALLISTER 7408(SX)	150.6	20.2	18900	0.9	3.4	0.5	3.8
NC+ 59(SX)	172.6	20.2	23250	3.3	4.2	0.0	3.7
PFISTER 75(SX)	156.1	19.7	21600	2.3	7.6	0.3	3.6
PFISTER 68(SX)	132.7	20.0	22450	3.6	7.0	7.0	3.6
TAYLOR-EVANS 6992(SX)	150.9	19.9	22750	2.6	6.9	0.4	3.9
TAYLOR-EVANS 6955(SX)	150.2	20.6	22150	1.8	5.7	0.4	3.6
FERRY-MORSE HULLING X880(SX)	146.9	20.3	20300	2.4	5.3	0.6	3.8
GROUP 2 MATURITY (2-LOCATION AVERAGE)							
ACCC UC 8951(SX)	165.3	21.4	22200	0.7	7.4	0.4	3.9
ACCC U393(2X)	148.2	21.4	22900	1.3	7.5	1.3	3.9
ASGROW XX100A(SX)	157.0	20.8	20850	9.6	4.2	0.8	3.9
ASGROW RX90(SX)	156.6	19.8	20150	3.9	5.3	0.2	3.6
BO-JAC X56(SX)	154.7	19.8	23400	3.5	5.1	0.4	3.6
CARGILL 920(SX)**	169.9	20.3	22250	0.5	3.5	0.6	3.9
CARGILL 966(SX)	154.4	20.7	20400	2.5	5.5	0.0	3.8
CO-OP 2300(SX)	147.7	19.8	21000	1.8	3.8	0.3	3.7
USS AGRICHEM. USS 1010(SX)	147.4	20.1	21050	4.9	5.7	0.4	3.6
USS AGRICHEM. USS 1515(SX)	140.1	21.7	21400	0.7	7.1	1.1	3.4
GOLDEN HARVEST H-2650(SX)**	159.2	21.9	20200	0.5	4.0	1.4	3.6
RING AROUND RA1501(SX)	146.8	20.4	18750	4.8	4.1	0.2	3.6
RING AROUND RA3502(3X)	146.2	21.3	22550	0.2	7.3	0.7	3.6
FEDERAL FX39(SX)	141.4	20.1	18950	2.3	4.8	1.5	3.7
FRONTIER SX244(SX)	151.0	20.4	22000	1.3	5.9	1.4	3.6
FRONTIER SX234(SX)	174.4	20.1	22500	0.8	1.8	0.4	3.7
SUPERCROST S85(SX)**	80.6	19.1	17750	4.4	10.8	0.3	2.8
SUPERCROST 5440(SX)	147.1	20.3	20700	0.8	5.6	0.3	3.6
HAPPEL MS-72(SX)	135.7	21.4	22100	1.1	7.8	1.3	3.3
HAPPEL 3361-A(3X)	106.7	20.0	20550	1.2	15.6	2.5	3.3
IOWA-MISSOURI SX18(SX)	142.4	21.5	21750	0.2	7.6	0.2	3.6
IOWA-MISSOURI SX19(SX)	145.7	20.6	22350	1.1	5.8	1.8	3.8
LEWIS X788(SX)	136.8	21.3	21650	0.4	9.0	0.3	3.6
LEWIS X628(SX)	143.4	20.0	20050	1.3	4.0	0.8	3.6
CFS 222(SX)	152.7	20.0	22000	0.9	6.1	0.8	3.8
M.F.A 5802(SX)**	137.5	19.6	19150	0.0	3.8	1.0	3.7
M.F.A 5903(SPX)	141.2	20.1	22500	1.8	6.6	1.1	3.8
AMERICANA 6700(SX)	145.2	21.5	22200	0.4	8.0	1.3	3.6
AMERICANA 4700(SX)	150.0	19.9	20900	2.9	4.8	0.9	3.4
MUNCY CHIEF SX878(SX)	124.6	21.1	20350	0.3	5.3	0.0	3.6
MUNCY CHIEF SX777(SX)	134.3	20.8	21500	0.0	5.1	0.8	3.7
MC ALLISTER 7300A(SX)	158.7	22.1	22050	0.2	6.6	1.6	3.6
MC CURDY MSX84(SX)	163.5	20.0	19550	0.0	2.4	0.4	3.4
MC NAIR X-194(SX)	130.5	20.8	20250	0.2	10.3	0.3	3.4
NC+ 76(3X)	151.0	21.0	22300	1.6	6.7	0.7	3.4
NORTHROP-KING PX-74(SX)**	149.1	20.4	22450	1.0	6.1	1.1	3.6
NORTHROP-KING PX-675(3X)**	148.1	20.2	19600	0.8	3.3	0.3	3.8
O'S GOLD SX5500(SX)**	133.4	21.6	19900	0.0	7.1	2.4	3.4
O'S GOLD SX5500A(SX)**	148.5	20.0	19950	0.7	3.5	0.3	3.8
P-A-G 357(SX)	130.2	20.3	21100	0.2	10.3	0.0	3.6
P-A-G 314(SX)	151.0	19.4	21950	0.7	2.8	0.2	3.8
PIONEER 3184(SX)	163.0	22.7	22300	1.6	3.6	0.2	3.7
PIONEER 3360(SX)	152.3	20.2	20650	1.4	3.6	1.4	3.9
PRINCETON SX910(SX)*	161.7	22.4	23100	7.3	7.1	1.5	4.2
PRINCETON SX840(SX)	152.1	21.6	20650	1.6	2.8	0.4	3.8
THOR-O-BRED SX650(SX)	140.8	21.6	20050	1.9	6.3	0.5	3.4
THOR-O-BRED SX544(SX)	151.9	20.5	21550	5.9	4.3	1.3	3.4
TROJAN TX5115A(SX)**	163.3	20.3	21300	2.5	4.4	1.1	3.4
WEATHER MASTER EPX888(SX)	158.9	20.3	22900	1.6	4.4	0.8	3.6
WEATHER MASTER EPX888C(SX)	149.3	20.1	21200	2.8	3.8	0.6	3.4
WALTER W80(CX)	130.5	19.6	22450	2.6	11.0	0.8	3.3
FERRY-MORSE HULLING X980(SX)	151.9	21.9	20350	0.0	7.4	0.3	3.6
ZIMMERMAN Z24-Y(SX)	156.2	20.6	23750	0.2	2.9	0.6	3.8
ZIMMERMAN Z20-Y(SX)	171.0	21.0	22950	2.8	6.7	1.0	4.0
GROUP 3 MATURITY (2-LOCATION AVERAGE).							
BO-JAC X7L(SX)	121.8	21.0	20850	1.2	8.6	0.4	3.3

TABLE 24. CONT.

BRAND-HYBRID	ACRE YIELD (BU)	PERCENT MOISTURE (%)	PLANTS PER ACRE (#)	LODGED PLANTS		DROPPED EARS (%)	EAR HEIGHT (FT)
				ROOT (%)	STALK (%)		
CO-OP 2318(SX)	141.5	21.9	20650	0.0	6.3	0.9	3.4
FEDERAL FX59(SX)	134.2	21.6	18700	1.9	6.1	0.8	3.6
BROWNING 2272SXA(SPX)	123.9	21.6	20050	1.4	12.6	0.5	3.4
MC CURDY MSX88(SX)	146.3	21.3	22100	1.1	8.8	1.3	3.6
AVERAGE	145.9	20.6	21110	1.7	6.0	0.8	3.6

*WHITE HYBRID.

**WIDELY GROWN HYBRID.

TABLE 25. CONTINUED.

BRAND/HYBRID	CROP REPORTING DISTRICT										BRAND/HYBRID	CROP REPORTING DISTRICT																																
	1	2	3	4	5	6	9	5	7			1	2	3	4	5	6	9	5	7																								
	GROUP II MATURITY																																											
FUNK G-4628(SX)**	X	X	X	X	X			X													GOLDEN HARVEST H-2600(SX)**	X	X	X	X	X																		
GOLDEN HARVEST H-2650(SX)**	X	X	X	X	X			X	X	X												GOLDEN HARVEST H-2615(SPX)	X	X	X	X	X																	
GOLDEN HARVEST H-2666(SX)					X			X														HAPPEL MS-79(3X)	X	X	X	X	X																	
HAPPEL MS-72(SX)	X	X	X	X	X			X	X													HAPPEL 3361-A(3X)	X	X	X	X	X													X	X			
HOBLEIT XR451(SX)			X																			IOWA-MISSOURI SX30(SX)			X																			
IOWA-MISSOURI SX19(SX)			X					X	X													IOWA-MISSOURI SX18(SX)			X																X	X		
IOWA-MISSOURI SX119(SX)			X																			IOWA-MISSOURI SPX219(SPX)			X																			
IOWA-MISSOURI SX118(SX)			X																			LEWIS EXP 4058(SX)				X	X	X																
LEWIS X78B(SX)	X	X	X	X	X			X	X	X												LEWIS EXP 272B(SX)					X	X																
LEWIS X84B(SX)				X	X			X														LEWIS X62B(SX)	X	X	X	X	X														X	X		
LEWIS EXP 77B(SX)	X	X	X	X	X																	LEWIS EXP X110B(SX)	X	X	X	X	X																	
LEWIS EXP 247B(SX)	X	X	X	X	X																	LEWIS EXP X106B(SX)	X	X	X	X	X													X				
LYNK LX4370(SX)	X	X																				LYNK LX4510(SX)	X	X																				
LYNK LX4330(SX)	X	X																				M.F.A 3030(DX)					X																	
M.F.A V-16(SX)**	X	X	X	X	X			X														M.F.A 6041(SPX)**	X	X	X																			
M.F.A 5802(SX)**	X	X	X	X	X			X	X	X												M.F.A 5903(SPX)	X	X	X	X	X													X	X	X		
MC ALLISTER 7207(SX)			X																			MC ALLISTER 7300A(SX)			X																X	X		
MC ALLISTER 7300(SX)	X		X																			MC ALLISTER 7617(SX)			X	X	X																	
MC ALLISTER 6837(SX)			X		X																	MC CURDY MSX65(SX)			X																			
MC CURDY MSP888(3X)								X														MC CURDY MSX70(SX)	X	X	X	X	X																	
MC CURDY MSX84(SX)	X	X	X	X	X				X	X												MC CURDY MSX84A(SX)			X		X																	
MC NAIR X-233(SX)*								X														MC NAIR X-194(SX)																		X	X	X		
MUNCY CHIEF H764(DX)								X														MUNCY CHIEF SX878(SX)			X		X	X												X	X	X		
MUNCY CHIEF SX777(SX)		X		X	X			X	X	X												MUNCY CHIEF 3X898(3X)					X																	
NC+ 76(3X)	X	X	X					X	X													NC+ 85(SX)	X	X	X																			
NORTHROP-KING PX-79(SX)	X	X	X	X	X			X														NORTHROP-KING PX-74(SX)**	X	X	X	X	X													X	X	X		
NORTHROP-KING PX-675(3X)**	X	X	X	X	X			X	X	X												NORTHROP-KING PX-715(3X)																		X				
O'S GOLD SX5500(SX)**	X	X	X					X	X	X												O'S GOLD SX5500A(SX)**	X	X	X																X	X		
O'S GOLD SX5353(SX)	X	X						X														O'S GOLD SX5255(SX)	X	X																				
O'S GOLD SX5500AB(SX)	X	X	X	X	X			X														P-A-G SX98(SX)**	X	X	X	X	X													X				
P-A-G 314(SX)	X	X	X	X	X			X	X	X												P-A-G 357(SX)	X	X	X	X	X													X	X	X		
P-A-G SX17A(SX)					X			X														PIONEER 3360(SX)	X	X	X	X															X	X		
PIONEER 3219(DX)**	X	X	X	X	X																	PIONEER 3368A(SX)**																		X				
PIONEER 3369A(SX)**	X	X	X	X	X			X														PIONEER 3183(SX)	X	X	X	X																		
PIONEER 3184(SX)	X	X	X	X				X	X	X												PRINCETON SX910(SX)*																		X	X	X		
PRINCETON SX840(SX)								X	X	X												RING AROUND RA1501(SX)	X	X	X	X	X													X	X	X		
RING AROUND RA3502(3X)	X	X	X	X	X			X	X	X												SUPERCROST 5440(SX)	X	X	X	X	X														X	X		
SUPERCROST 585A(SPX)	X	X	X	X	X																	SUPERCROST 585(SX)**	X	X	X	X	X														X	X		
TAYLOR-EVANS 6968(SX)		X	X	X	X			X														TAYLOR-EVANS 6980(SX)					X																	
TEKSEED SPX36(SX)	X																					TEKSEED SPX355(3X)	X																					
TEKSEED SPX77(SX)	X																					TEKSEED SPX388(3X)	X																					
TEKSEED SPX34(SX)	X																					THOR-O-BRED SX650(SX)			X	X															X	X		
THOR-O-BRED SX548(SX)		X	X		X																	THOR-O-BRED SX544(SX)			X	X	X															X	X	
THOR-O-BRED SC630(SPX)	X	X		X																		THOR-O-BRED SC599(SPX)	X	X		X																		

TABLE 25. CONTINUED.

BRAND/HYBRID	CROP REPORTING DISTRICT							IRRI- GATION TRIALS	BRAND/HYBRID	CROP REPORTING DISTRICT							IRRI- GATION TRIALS		
	1	2	3	4	5	6	9			5	7	1	2	3	4	5		6	9
GROUP II MATURITY																			
TRCJAN TXS119(SX)**	X	X	X	X	X		X		TROJAN TX119A(3X)**	X	X	X	X	X		X			
TROJAN TXS117A(SX)	X	X	X	X	X		X		TROJAN TXS115A(SX)**	X	X	X	X	X		X	X	X	
US 13(DX)	X	X	X	X	X		X		USS AGRI-CHEM. USS 1515(SX)				X	X		X	X	X	
USS AGRI-CHEM. USS 1010(SX)	X	X	X	X	X		X	X	WALTHER W34(3X)	X	X	X	X	X		X		X	X
WALTHER W239(DX)	X	X	X	X	X		X		WALTHER W45(SX)					X					
WALTHER W80(DX)	X	X	X	X	X		X	X	WALTHER W271(DX)	X	X	X	X	X		X			
WEATHER MASTER EPX888C(SX)	X	X		X			X	X	WEATHER MASTER EXP12A(SX)	X	X		X						
WEATHER MASTER EPX888(SX)	X	X		X			X	X	WILSON 1040(SX)	X									
WILSON 1800(SX)	X								ZIMMERMAN Z19-W(SPX)*					X					
ZIMMERMAN Z24-Y(SX)					X		X	X	ZIMMERMAN Z11-W(SX)*					X		X			
ZIMMERMAN Z52-W(3X)*					X				ZIMMERMAN Z20-Y(SX)					X			X	X	
(C166 X C164)FR802W(3X)				X					{M017 X B73}(SX)	X	X	X	X	X		X			
{MC17 X N28}(SX)	X	X		X	X		X		{M01W X 805W}FR802W(3X)	X	X		X						
{N28 X FRI4A}(SX)	X	X		X															
GROUP III MATURITY																			
ACCO UC 9792(SX)							X		ASGROW RX114(3X)							X			
BO-JAC X83(SX)**	X		X	X	X		X		BO-JAC X7L(SX)	X	X	X	X	X		X	X	X	
BO-JAC X52B(SX)		X			X		X		BO-JAC X923(SX)				X	X		X			
BROWNING 22725XA(SPX)					X		X	X	CFS W401(SX)		X		X						
CFS E4100(SX)		X			X				CO-OP 2318(SX)	X	X	X	X	X		X	X	X	
FEDERAL FX59(SX)	X				X		X	X	FONTANELLE 660SC(SX)	X									
FUNK G-4747W(SX)*	X	X	X	X	X		X		FUNK G-4848(SX)							X			
GOLDEN HARVEST H-2660W(SPX)*							X		GOLDEN HARVEST H-2750(3X)							X			
MC CURDY 72-44A(SX)							X		MC CURDY MSX88(SX)	X	X	X	X	X		X	X	X	
MC NAIR S-338(3X)							X		MC NAIR X-300(SX)							X			
NORTHRUP-KING PX-95(SX)							X		P-A-G SX70W(SX)***				X	X					
PICNEER 3147(SPX)	X	X	X	X					TAYLOR-EVANS 6947(SX)					X		X			
TEKSEED SPX90(SX)	X								TROJAN T1210(SX)	X	X	X	X	X		X			
GROUP IV MATURITY																			
CFS 405(SX)	X			X					MC CURDY 67-14(SX)							X			

*WHITE HYBRID

**COMMONLY GROWN HYBRID

TABLE 26. SOURCE OF COMMERCIAL SEED CORN FOR HYBRIDS ENTERED IN THE 1977 MISSOURI YIELD TRIALS.

BRAND	FIRM	ADDRESS
ACCC	ACCO SEED	P.O. BOX 9, BELMOND, IA 50421
AMERICANA	AMERICANA SEEDS, INC.	P.O. BOX 275, BOWEN, IL 62316
ASGRCW	ASGROW SEED COMPANY	P.O. BOX 2010, DES MOINES, IA 50310
BO-JAC	BO-JAC HYBRID CORN COMPANY	ROUTE 2, MT. PULASKI, IL 62548
BRCWNING	BRCWNING SEED COMPANY	P.O. BOX 1836, PLAINVIEW, TX 79072
BURRUS	BURRUS BROS. & ASSOC. GROWERS	RURAL BOX 22, ARENZVILLE, IL 62611
CARGILL	CARGILL SEEDS	P.O. BOX 9300, DEPT. 16, MINNEAPOLIS, MN 55440
COOP	FARMLAND INDUSTRIES, INC.	P.O. BOX 7305, KANSAS CITY, MO 64116
CCRN KING	MALCOLM H. GRIEVE	PIERSON, IA 51048
CUSTOM FARM SEEDS	PRO GRC, INC.	HWY. 169 SOUTH, MANKATO, MN 56001
DEKALB	DEKALB AG RESEARCH, INC.	SYCAMCRE ROAD, DEKALB, IL 60115
DENNIS	DENNIS HYBRID CORPORATION	P.O. BOX 487, WINDFALL, IN 46076
FEDERAL	FEDERAL HYBRIDS	ROUTE 2, MARION, IA 52302
FONTANELLE	FONTANELLE HYBRIDS	NICKERSON, NE 68044
FRONTIER	FRONTIER SEEDS LTD.	P.O. BOX 460, HUTCHINSON, KS 67501
FUNK	FUNK SEEDS INTERNATIONAL	1300 WASHINGTON STREET, BLOOMINGTON, IL 61701
GOLDEN HARVEST	COLUMBIANA SEED COMPANY	ELDRED, IL 62027
HAPPEL	HAPPEL'S HYBRIDS	ROUTE 1, PALMYRA, MO 63461
HOBBLIT	HOBBLIT SEED COMPANY	ROUTE 1, ATLANTA, IL 61723
HULTING	FERRY-MORSE SEED COMPANY	600 EAST EXCHANGE, GENESEO, IL 61254
ICWA-MISSOURI	IOWA-MISSOURI HYBRID SEED CORN CO.	P.O. BOX 481, KEOSAUQUA, IA 52565
LEWIS	LEWIS HYBRIDS	P.O. BOX 36, URSA, IL 62376
LYNKS	LYNKS HYBRIDS	P.O. BOX 637, MARSHALLTOWN, IA 50158
MC ALLISTER	MC ALLISTER SEED COMPANY	P.O. BOX 28, MT. PLEASANT, IA 52641
MC CURDY	MC CURDY SEED COMPANY	FREMONT, IA 52561
MC NAIR	MC NAIR SEED COMPANY	P.O. BOX 706, LAURINBURG, NC 28352
MFA	MFA SEED DIVISION	201 SOUTH SEVENTH, COLUMBIA, MO 65201
MUNCY CHIEF	MUNCY CHIEF HYBRIDS	MARKET AND HIGH STREETS, MUNCY, PA 17756
NC+	NC+ HYBRIDS	3820 NORTH 56TH, LINCOLN, NE 68504
NORTHTRUP-KING	NORTHTRUP KING COMPANY	P.O. BOX 370, RICHARDSON, TX 75080
O'S GOLD	O'S GOLD SEED COMPANY	P.O. BOX 460, PARKERSBURG, IA 50665
P-A-G	P-A-G SEEDS	P.O. BOX 9480, DEPT. 16, MINNEAPOLIS, MN 55440
PFISTER	PFISTER HYBRID CORN COMPANY	P.O. BOX 187, EL PASO, IL 61738
PIONEER	GARST & THOMAS HYBRID CORN CO.	COON RAPIDS, IA 50058
PRINCETON	PRINCETON FARMS	P.O. BOX 319, PRINCETON, IN 47670
RING AROUND	RING AROUND PRODUCTS, INC.	P.O. BOX 1629, PLAINVIEW, TX 79072
SUPERCRCST	EDWARD J. FUNK & SONS, INC.	P.O. BOX 67, KENTLAND, IN 47951
TAYLOR-EVANS	TAYLOR-EVANS SEED COMPANY	P.O. BOX 68, TULIA, TX 79088
TEKSEED	TEKSEED HYBRID COMPANY	P.O. BOX 237, TEKAMAH, NE 68061
THOR-O-BRED	THOR-O-BRED SEEDS OF IOWA, INC.	P.O. BOX 275, CEDAR FALLS, IA 50613
TRCJAN	PFIZER GENETICS, INC.	1239 73RD, SUITE D, DES MOINES, IA 50311
USS	UNITED STATES STEEL AGRICULTURAL CHEMICALS	7711 CARONDELET, CLAYTON, MO 63105
WALTHER	C.H.E. WALTHER & SON	ROUTE 3, BOONVILLE, MO 65233
WEATHER MASTER	WEATHER MASTER SEEDS, INC.	P.O. BOX 588, SCOTT CITY, KS 67871
WILSON	WILSON HYBRIDS, INC.	P.O. BOX 391, HARLAN, IA 51537
ZIMMERMAN	ZIMMERMAN HYBRIDS, INC.	ROUTE 2, BOX 275B, EVANSVILLE, IN 47712