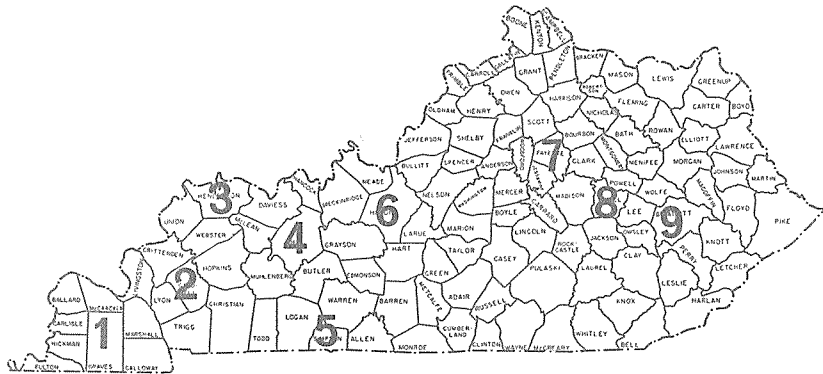


# KENTUCKY HYBRID CORN PERFORMANCE TEST — 1973

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PROGRESS REPORT 212

UNIVERSITY OF KENTUCKY  
COLLEGE OF AGRICULTURE  
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## TESTING LOCATIONS OF THE 1973 KENTUCKY HYBRID CORN PERFORMANCE TRIALS



(Locations identified in Table 3.)

### ACKNOWLEDGMENTS

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TABLE 22.—THREE-YEAR SUMMARY, CORN VIRUS TEST, NORMAL POPULATION, 1971, 1972, AND 1973.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOOGEED
YELLOW					
PIONEER BRAND 3179	1.7	90.4	21.3	74.8	31.8
PIONEER BRAND 3147	2.2	79.8	22.7	74.7	24.3
FUNK'S G4761	2.5	64.0	20.8	72.0	28.9
FUNK'S G4808	2.7	64.4	23.0	70.7	34.7
SD.STATES 55866	3.3	55.8	21.3	68.9	34.3
KENTUCKY 105	4.8	26.9	19.7	62.8	41.0
YELLOW AVERAGE	2.9	62.0	21.5	70.7	32.5
WHITE					
STULL'S 560W SP	3.3	65.1	21.9	74.1	40.6
WHITE AVERAGE	3.3	65.1	21.9	74.1	40.6
GRAND AVERAGE	2.9	62.4	21.5	71.2	33.7

TABLE 21.—TWO-YEAR SUMMARY, CORN VIRUS TEST, NORMAL POPULATION, 1972 AND 1973.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
P-A-G SX 17A	1.4	83.0	21.2	85.7	13.0
TROJAN X 54	1.5	83.7	19.8	86.5	17.3
PIONEER BRAND 3179	1.7	90.4	21.7	82.8	20.9
TROJAN MDH 111	2.0	83.1	18.8	84.4	17.1
PIONEER BRAND 3147	2.2	71.0	23.0	71.6	6.1
FUNK'S G4761	2.5	61.1	20.3	76.0	15.5
FUNK'S G4808	2.7	64.6	22.8	72.9	18.7
STULL'S 911 SP	3.2	73.1	23.1	83.6	21.6
T-E VR-20-Y	3.3	64.3	21.8	76.3	7.9
SO. STATES SS866	3.3	63.3	21.2	72.9	21.3
MCNAIR X300	4.0	66.6	22.2	83.6	38.4
HOLDENS 1022	4.0	65.7	20.0	82.6	40.4
MCNAIR X210	4.6	45.9	22.4	79.4	36.9
KENTUCKY 105	4.8	34.0	21.8	72.4	27.7
YELLOW AVERAGE					
	2.9	67.8	21.4	79.3	21.6
WHITE					
STULL'S 560H SP	3.3	69.1	22.1	84.4	22.1
KENTUCKY 5921H	5.3	36.4	22.1	82.0	19.0
WHITE AVERAGE					
	4.3	52.7	22.1	83.2	20.5
GRND AVERAGE					
	3.1	66.0	21.5	79.8	21.5

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TABLE 20.—CORN VIRUS TEST, NORMAL POPULATION, IRVINE, KY.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
VORIS SEEDS V2632	1.2	66.9	17.0	93.2	2.8
HOLDENS 1028	1.3	57.7	18.4	82.3	7.6
P-I-C SX 17A	1.5	46.2	21.1	87.0	0.0
80-JAC X7L	1.5	51.0	22.1	91.7	4.0
80-JAC 8371	1.5	58.0	20.3	87.5	3.6
PIONEER BRAND 3147	1.7	54.0	24.3	83.9	4.7
HULTING X8775	1.7	44.6	17.3	84.4	3.7
MCNAIR X300	1.7	70.5	21.8	91.1	1.7
TROJAN MOH 111	1.7	78.4	18.1	90.6	3.4
TROJAN X 565	1.7	56.5	18.0	87.5	1.7
ZIMMERMAN Z24	1.7	69.1	20.6	85.4	1.2
STULL'S 809A SP	1.8	58.2	20.5	78.1	6.7
80-JAC X1-83	1.8	75.0	18.8	88.0	5.8
PIONEER BRAND 3179	2.0	60.6	21.5	77.1	2.1
MCNAIR X180	2.0	43.7	19.6	72.4	1.9
FUNK'S G4762	2.0	73.8	22.2	91.7	7.4
MCNAIR X210	2.2	52.4	21.3	83.9	1.2
NORTHROP-KING NK1923	2.2	65.5	21.9	88.5	7.0
HULTING X770	2.3	58.7	16.7	82.8	20.0
ASGROW RX 132	2.3	59.8	23.2	79.7	2.4
TROJAN X 2722	2.3	55.8	25.4	84.9	5.9
TROJAN X 3524	2.3	65.2	19.4	85.4	8.5
DEKALB 1002	2.5	31.2	24.3	82.3	9.4
PRINCETON SX 650	2.5	52.8	18.2	89.1	3.5
MCNAIR X190	2.5	52.9	21.1	92.7	1.2
NORTHROP-KING NK1925	2.5	65.5	21.2	89.1	3.4
HOLDENS 1020	2.5	55.1	17.5	82.8	5.5
KENTUCKY 105	2.7	34.9	22.9	81.3	1.4
FUNK'S G4761	2.7	38.0	21.1	74.0	2.8
FUNK'S G4808	2.7	42.0	23.8	67.7	4.3
HULTING X877	2.7	34.8	20.3	80.7	3.8
ASGROW RX 115	2.7	45.4	20.8	87.0	4.2
HOLDENS 1022	2.7	61.2	17.1	84.9	5.7
MCNAIR 225	2.7	45.1	21.8	74.0	2.0
COKER 56	2.7	50.5	23.3	77.1	6.2
DEKALB XL70	2.7	47.8	19.4	84.9	2.4
NORTHROP-KING NK1922	2.7	54.0	24.1	80.7	4.3
SO. STATES SS866	3.0	36.8	20.9	70.8	15.7
STULL'S 911 SP	3.0	45.2	24.7	75.5	0.0
T-E VR-20-Y	3.2	37.2	22.4	82.8	1.2
80-JAC X87L	3.7	35.9	24.1	84.4	3.6
80-JAC X91	4.0	53.8	22.3	85.9	7.1
YELLOW AVERAGE	2.3	53.4	21.0	83.4	4.5
WHITE					
PRINCETON SX 935	1.8	51.3	23.9	87.0	5.4
ZIMMERMAN Z11	2.0	41.8	25.2	55.7	0.0
STULL'S 555W	2.3	51.7	23.5	77.6	2.0
T-E H-20-W	2.7	39.7	23.1	64.1	3.5
STULL'S 560W SP	3.3	35.4	22.7	82.3	3.8
STULL'S 450W	3.3	42.7	20.8	86.5	2.5
KENTUCKY 5921W	3.5	23.8	23.9	81.8	1.3
WHITE AVERAGE	2.7	40.9	23.3	76.4	2.6
GRAND AVERAGE	2.4	51.6	21.3	82.4	4.3

TABLE 18.—TWO-YEAR SUMMARY, HIGH POPULATION, PRINCETON AND LEXINGTON, KY., 1972 AND 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
TROJAN TXS 113	150.4	18.4	87.5	15.8
MIGRO M-7072	146.5	18.5	87.9	26.0
MIGRO M-5045	142.2	17.7	82.8	14.6
FUNK'S G4646	142.0	19.6	85.8	15.7
MULTING XT70	138.2	17.5	85.9	27.1
PIONEER BRAND 3571	133.6	18.3	86.1	8.4
MUNCY CHIEF SX662	133.1	19.2	88.2	15.3
MIGRO M-0711	128.8	21.5	88.4	18.4
YELLOW AVERAGE	139.4	18.9	86.6	17.7

TABLE 19.—THREE-YEAR SUMMARY, HIGH POPULATION, PRINCETON AND LEXINGTON, KY., 1971, 1972 AND 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
TROJAN TXS 113	148.9	19.6	87.1	14.6
FUNK'S G4646	144.9	20.9	85.5	13.8
PIONEER BRAND 3571	133.5	18.1	85.4	7.9
MIGRO M-0711	131.8	22.0	83.2	13.2
YELLOW AVERAGE	139.8	20.1	85.3	12.4

# Kentucky Hybrid Corn Performance Test 1973

*By C. G. Poneleit and K. O. Evans*

The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. This information can be a valuable aid to corn growers as they select hybrids for use in the following season.

## PRESENTATION OF DATA

Complete 1973 data are presented for each location where a test was conducted. Two-year and three-year yield averages (1972 and 1973 data) are also included in each of these tables. Readers are encouraged to consider these multiple-year averages and the average over all locations in 1973 (Tables 12, 13, and 14) since these are better estimates of a hybrid's relative yield ability than data gathered at one location in one year. Data from 1972 and 1971 are used in the 2- and 3-year summaries over all locations in Tables 13 and 14.

Comparisons between yields or other characters of any two or more hybrids should be made only with data from one table at a time. The testing procedures do not provide a suitable comparison between a hybrid grown at one location and population with another hybrid grown at a different location and population.

## TESTING PROCEDURE

### SELECTION OF HYBRIDS

Ky 105 and Ky 5921W (Table 1) were again included as check varieties to compare performance over years. Seed of each commercial hybrid (Table 2) was obtained from dealers in Kentucky whenever possible.

Those hybrids grown in the corn virus test and high population tests are indicated in column 2 of Table 2. The hybrid corn companies were asked to nominate those hybrids known to have virus resistance for inclusion in the virus test. Hybrids grown in the high population tests were also suggested by the parent company; thus, not all hybrids will appear in the virus or high-population test results.

#### LOCATION OF TESTS

The map on page 2 shows the location for each test. The Lexington and Princeton locations had both normal and high population tests, while all other locations had only the normal population. The Irvine site was specifically chosen for the presence of corn virus.

#### CULTURAL PRACTICES

The seedbed at each location except Elizabethtown and Franklin was prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests. The test at Elizabethtown was planted in a fescue sod and at Franklin in winter wheat, using recommended no-tillage practices. The test areas were treated with herbicide and supplemented by post-emergence cultivation when necessary. Table 3 shows the specific treatment for each location.

#### EXPERIMENTAL DESIGN

Uncontrollable variability of soil types, fertility, and other factors was sampled by using three replications of an appropriate balanced lattice design. A separate randomization was used for each location. Yields presented in Tables 4 through 22 are adjusted for block and replication differences when shown applicable by statistical analyses.

TABLE 17.—ANNUAL SUMMARY, HIGH POPULATION, PRINCETON AND LEXINGTON, KY., 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
NORTHROP-KING PX74	167.0	18.2	84.8	6.9
TROJAN TXS 113	154.9	18.4	84.5	16.2
MIGRO EXP 7070	153.7	20.3	85.4	30.6
BO-JAC X62	151.1	20.8	86.7	15.3
BO-JAC X62	149.3	17.4	86.7	20.5
NORTHROP-KING PX76	148.9	17.9	84.8	18.0
MCNAIR X190	148.2	20.6	83.3	20.4
VORIS SEEDS V2562	147.3	18.4	79.5	27.9
MIGRO M-6666	147.2	19.0	86.2	29.2
FUNK'S G4646	146.9	20.4	84.7	16.6
MIGRO M-7072	146.3	18.7	84.8	30.5
BO-JAC X4858	145.1	19.9	87.5	16.8
HULTING X770	144.7	16.3	83.5	23.3
DEKALB XL64	143.2	19.3	80.5	20.3
SUPER CROST 8442	143.0	20.4	81.8	35.5
MIGRO M-5045	143.0	17.6	81.2	6.8
SO. STATES S5750	142.8	18.9	89.6	21.7
MCNAIR X300	141.8	21.3	79.7	26.7
BO-JAC X87L	140.5	22.0	80.3	30.3
MCNAIR EXP 7090	140.1	18.6	81.1	18.0
VORIS SEEDS V2502	138.4	17.6	84.5	14.9
MUNCY CHIEF SX662	138.0	18.9	84.3	13.6
MIGRO M-6646	137.5	18.6	84.8	18.5
HULTING X9880	137.2	21.1	85.6	22.8
PIONEER BRAND 3571	136.8	17.1	85.4	6.5
STULL'S EXP 8092	135.9	18.7	84.8	20.7
BO-JAC X91	135.7	21.4	78.4	5.8
TROJAN TX 113	135.7	19.1	83.5	20.9
STULL'S EXP 8233	135.3	21.5	80.5	24.5
PIONEER BRAND EXP 03	135.2	16.9	85.6	12.8
STULL'S 809 SX	134.6	20.8	79.7	21.4
STULL'S SX707	133.0	19.2	81.6	24.3
FUNK'S EXP 26205	129.0	21.7	81.6	32.6
GUTHEIN 89	128.5	21.7	82.4	12.2
STEWART SX 54	127.4	19.2	79.0	16.9
DEKALB XL43	126.6	16.5	82.6	7.2
MIGRO M-0711	125.5	21.3	86.0	9.1
SUPER CROST 8282	124.9	21.8	74.2	7.4
KENTUCKY 105	123.5	21.4	83.5	33.8
TROJAN TX 117	123.0	19.7	79.2	14.7
MCNAIR X210	121.3	21.1	74.8	20.9
STULL'S 877	121.1	22.1	81.2	17.6
MCNAIR X180	120.4	18.2	82.6	24.3
MUNCY CHIEF H764	117.1	19.5	69.1	27.9
NORTHROP-KING PX50A	105.4	15.9	83.7	11.6
MUNCY CHIEF SX550	94.4	18.1	80.5	13.6
YELLOW AVERAGE				
	136.2	19.4	82.5	19.3
WHITE				
MCNAIR X233	139.0	23.3	60.6	12.8
MCNAIR 225	121.4	20.5	80.5	21.3
KENTUCKY 5921W	115.9	20.3	84.8	21.2
WHITE AVERAGE				
	125.4	21.3	75.3	18.5
GRAND AVERAGE				
	135.6	19.6	82.1	19.3

TABLE 16.--ANNUAL SUMMARY, HIGH POPULATION, LEXINGTON, KY.

HYBRID	3-YR		2-YR		1973 RESULTS		
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW							
TROJAN TXS 113	166.2	170.3	186.4	18.6	89.4	5.9	
NORTHROP-KING PX74			183.4	17.1	87.1	4.4	
MIGRO EXP 7070			183.1	19.8	89.4	21.1	
HULTING X770		159.2	176.0	15.8	89.8	7.7	
VORIS SEEDS V2562			175.8	18.1	81.4	7.3	
BO-JAC X4858			173.8	19.2	92.0	9.1	
NORTHROP-KING PX76			172.6	17.2	90.2	8.5	
DEKALB XL64			171.4	19.2	83.0	27.1	
MCNAIR X300			167.9	20.5	83.7	21.1	
MUNCY CHIEF SX662		152.3	166.0	18.0	86.7	9.6	
BO-JAC X62			165.6	17.1	86.4	11.8	
BO-JAC X71			165.0	20.4	87.9	8.6	
MIGRO M-5045		153.0	164.3	17.6	84.8	5.3	
SO. STATES S5750			164.3	18.2	93.2	11.1	
STULL'S 809 SX			163.6	20.4	84.1	22.5	
MIGRO M-6666			163.6	18.8	89.4	11.8	
MIGRO M-7072		160.1	163.3	18.1	85.6	17.2	
FUNK'S 04646		154.2	162.6	20.6	87.9	16.2	
BO-JAC X87L			157.0	21.1	85.6	26.2	
SUPER CROST 8442			156.0	20.6	88.3	29.6	
HULTING X9880			153.8	21.4	86.7	24.1	
TROJAN TX 113			153.1	19.7	86.7	21.7	
STULL'S SX707			152.9	17.6	87.1	13.6	
PIONEER BRAND 3571		148.1	152.2	16.5	89.4	5.5	
VORIS SEEDS V2502			151.7	17.7	87.1	17.9	
FUNK'S EXP 26205			149.8	21.8	84.8	27.8	
MCNAIR EXP 7090			147.2	18.8	84.8	20.2	
MCNAIR X190			147.2	19.8	88.6	20.0	
PIONEER BRAND EXP 0366A			142.9	16.6	87.5	9.0	
MIGRO M-6646			141.7	17.8	89.4	15.7	
BO-JAC X91			141.2	21.3	84.1	4.5	
STULL'S EXP 8092			140.3	19.6	86.4	20.6	
STULL'S EXP 8233			139.6	21.1	83.3	28.6	
DEKALB XL43			139.2	16.3	85.6	12.1	
STEWART SX 54			137.0	18.9	80.3	10.3	
KENTUCKY 105			135.6	21.6	90.9	22.1	
STULL'S 877			134.9	23.2	81.8	17.8	
GUTWEIN 89			134.4	21.4	84.5	11.5	
SUPER CROST 8282			134.0	22.4	76.5	6.4	
MCNAIR X210			132.5	21.1	82.6	14.6	
MIGRO M-0711		130.2	128.7	21.5	88.3	8.1	
TROJAN TX 117			125.4	19.4	75.8	4.3	
MCNAIR X180			125.1	18.7	81.4	42.0	
MUNCY CHIEF H764			120.1	19.7	66.7	31.2	
NORTHROP-KING PX50A			108.1	15.6	80.3	15.8	
MUNCY CHIEF SX550			100.2	17.8	80.3	8.9	
YELLOW AVERAGE	151.2	153.6	151.1	19.2	85.4	15.6	
WHITE							
MCNAIR X233			159.5	22.5	59.5	7.1	
MCNAIR 225			139.8	20.1	84.8	16.9	
KENTUCKY 5921W			131.3	19.6	91.3	18.7	
WHITE AVERAGE			143.5	20.7	78.5	14.2	
GRAND AVERAGE	151.2	153.6	150.6	19.3	85.0	15.5	

## PLANTING

All plots were planted with a two-row no-till corn planter modified for small plot work. The planter boxes were replaced by special planting cones which allowed planting of a specified number of kernels per plot. Each plot consisted of two rows 38 inches apart. Population was varied by planting different numbers of kernels per row. A normal population test had 20,000 kernels planted per acre, while the high population test had 26,000 kernels planted per acre.

## HARVESTING

All plots were harvested with a tractor-mounted one-row picker-sheller. Both rows of each two-row plot were picked, shelled, and the grain collected in a metal container. The grain weight and moisture content of each plot were then measured with a portable scale and moisture meter. Later, acre yields were calculated and adjusted to No. 2 corn at 15.5% moisture. Dropped ears were not gleaned from the plots. The number of plants remaining in each plot at harvest and the number of lodged plants were recorded immediately prior to harvest.

## CORN VIRUS

In addition to maize dwarf mosaic virus, a second virus has been found in Kentucky corn fields. Both the new virus and maize dwarf mosaic virus overwinter in Johnsongrass, and both are probably present in most areas where maize dwarf mosaic virus had previously been determined as the major disease. For this reason, the Irvine, Ky. test (Tables 20-22) will be referred to as the "corn virus test" with the understanding that resistance to both maize dwarf mosaic and the newly discovered virus is being evaluated.

TABLE 1.--PEDIGREES OF EXPERIMENT STATION HYBRIDS TESTED IN 1973.

Hybrid	Color	Cross	Pedigree
Ky 105	Yellow	4X	(T8 x CI21E) (38-11 x Oh 7B)
Ky 5921W	White	4X	(CI64 x 33-16) (Ky 201 x CI66)

TABLE 15.--ANNUAL SUMMARY, HIGH POPULATION, PRINCETON, KY.

HYBRID	3-YR		1973 RESULTS			
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW						
NORTHRUP-KING PX74			150.5	19.4	82.6	9.4
MCNAIR X190			149.3	21.5	78.0	20.8
BO-JAC X7L			137.1	21.2	85.6	22.1
MIGRO M-6646			133.2	19.3	80.3	21.3
MCNAIR EXP 7090			132.9	18.4	77.3	15.7
BO-JAC X62			132.9	17.6	87.1	29.3
STULL'S EXP 8092			131.4	17.9	83.3	20.8
FUNK'S G4646	129.6	129.7	131.2	20.2	81.4	17.1
STULL'S EXP 8233			131.0	21.9	77.7	20.4
MIGRO M-6666			130.9	19.2	83.0	46.5
BO-JAC X91			130.3	21.5	72.7	7.1
SUPER CROST 8442			130.0	20.2	75.4	41.3
MIGRO M-7072		132.9	129.3	19.3	81.1	43.9
PIONEER BRAND EXP 0366A			127.6	17.3	83.7	16.7
NORTHRUP-KING PX76			125.2	18.6	79.5	27.4
VORIS SEEDS V2502			125.0	17.5	81.8	11.8
MIGRO EXP 7070			124.3	20.8	81.4	60.0
BO-JAC X87L			124.1	23.0	75.0	34.5
TROJAN TXS 113	131.6	130.5	123.4	18.2	79.5	26.5
GUTWEIN 89			122.7	22.1	80.3	12.9
MIGRO M-0711	133.4	124.2	122.3	21.1	83.7	10.0
MIGRO M-5045			131.4	17.7	77.7	8.2
SO STATES S5750			121.3	19.6	86.0	32.4
PIONEER BRAND 3571	119.0	120.9	121.3	17.7	81.4	7.5
HULTING X9880			120.6	20.9	84.5	21.5
TROJAN TX 117			120.6	20.1	82.6	25.1
VORIS SEEDS V2562			118.9	18.6	77.7	48.4
TROJAN TX 113			118.2	18.5	80.3	20.0
STEWART SX 54			117.8	19.5	77.7	23.5
BO-JAC X4858			116.4	20.7	83.0	24.5
SUPER CROST 8282			115.8	21.3	72.0	8.4
MCNAIR X300			115.8	22.1	75.8	32.2
MCNAIR X180			115.6	17.8	83.7	6.6
DEKALB XL64			115.0	19.4	78.0	13.5
MUNCY CHIEF H764			114.2	19.3	71.6	24.6
DEKALB XL43			113.9	16.8	79.5	2.4
HULTING X770		117.2	113.5	16.8	77.3	38.9
STULL'S SX707			113.2	20.8	76.1	35.1
KENTUCKY 105			111.5	21.2	76.1	45.6
MCNAIR X210			110.1	21.1	67.0	27.1
MUNCY CHIEF SX662		114.0	110.0	19.8	81.8	17.6
FUNK'S EXP 26205			108.3	21.6	78.4	37.4
STULL'S 877			107.3	21.1	80.7	17.3
STULL'S 809 SX			105.6	21.3	75.4	20.4
NORTHRUP-KING PX50A			102.7	16.3	87.1	7.4
MUNCY CHIEF SX550			88.5	18.3	80.7	18.3
YELLOW AVERAGE	128.4	125.1	121.4	19.7	79.6	23.0
WHITE						
MCNAIR X233			118.4	24.1	61.7	18.6
MCNAIR 225			103.0	20.8	76.1	25.7
KENTUCKY 5921W			100.6	21.0	78.4	23.8
WHITE AVERAGE			107.4	22.0	72.1	22.7
GRAND AVERAGE	128.4	125.1	120.5	19.8	79.2	23.0



TABLE 14.—THREE-YEAR SUMMARY, NORMAL POPULATION,  
ALL NON-VIRUS LOCATIONS, 1971, 1972 AND 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED
YELLOW				
PIONEER BRAND 3369A	157.1	19.9	86.3	6.8
PIONEER BRAND 3368	147.5	20.5	84.9	6.2
STEWART SX 71	147.2	20.5	85.4	9.3
PRINCETON SX 850	146.6	19.8	87.4	8.8
DEKALB XL85A	143.4	21.7	83.2	11.5
P-A-G SX 39	142.6	21.6	81.7	7.6
PRINCETON SX 836	137.8	20.4	82.6	7.5
FUNK'S G4646	132.7	20.9	83.7	7.7
MIGRO M-0711	132.1	21.8	81.7	7.0
NORTHROP-KING PX616	131.7	19.4	85.9	12.9
FUNK'S G5757	131.3	22.2	81.1	9.4
ASGROW RX 100	130.9	21.8	81.6	6.8
PIONEER BRAND 3571	128.8	18.1	84.4	3.9
DEKALB XL64	120.0	19.9	81.8	9.0
T-E MASTERMAKER	119.7	21.8	79.7	4.8
KENTUCKY 105	95.0	19.9	77.6	24.5
YELLOW AVERAGE	133.6	20.6	83.0	9.1
WHITE				
MOEWS 101N	142.3	23.4	86.6	16.0
STULL'S 850W SX	138.7	23.7	85.4	17.4
P-A-G 644W	136.4	23.0	84.6	12.3
PIONEER BRAND 511A	135.7	22.9	85.0	17.5
KENTUCKY 5921W	111.6	20.4	82.3	22.0
WHITE AVERAGE	132.2	22.6	84.7	17.2
GRAND AVERAGE	133.3	21.1	83.4	11.1

TABLE 2.—HYBRIDS TESTED IN 1973.

Hybrid #	Test**	Color	Cross <sup>+</sup>	Source of Hybrid
Asgrow				
RX 100	A	Yellow	2X	Asgrow Seed Co.
RX 115	AC	"	2X	Des Moines, Ia.
RX 132	C	"	3X	50310
Bo-Jac				
XL1A	A	Yellow	2X	Bo-Jac Hybrid Corn Co.
X7L	BC	"	2X	Route # 2
X62	B	"	2X(Mod)	Mt. Pulaski, Ill.
X83	AC	"	2X	62548
X87L	BC	"	2X(Mod)	
X91	BC	"	2X(Mod)	
X4858	B	"	2X	
8371	C	"	4X	
B & B				
9-2	A	Yellow	2X	Broadbent Hybrids
10-3	A	"	3X	Route # 1
11-7	A	"	2X	Cadiz, Ky. 42211
Coker				
56	C	Yellow	4X	Cokers Pedigreed Seed Co. P.O.Box 340 Hartsville, S.C. 29550
Dekalb				
XL43	B	Yellow	2X	Dekalb Agr. Research Inc.
XL64	AB	"	2X	Dekalb, Ill. 60015
XL70	C	"	2X	
XL72A	A	"	2X	
XL74	A	"	2X	
XL80	A	"	2X	
XL85A	A	"	2X	
1002	C	"	4X	
XL390W	A	White	3X	
Super Crost				
S85	A	Yellow	2X	Edw. J. Funk & Sons, Inc.
7772	A	"	2X(Mod)	P.O. Box 67
8282	B	"	2X(Mod)	Kentland, Ind. 47951
8442	B	"	2X(Mod)	
Funk				
G-4628	A	Yellow	2X	Funk Seeds International, Inc.
G-4646	AB	"	2X(Mod)	1300 W. Washington
G-4648	A	"	2X(Mod)	Bloomington, Ill.
G-4761	C	"	3X	61701
G-4762	C	"	3X	
G-4808	C	"	2X	
G-4864	A	"	3X	
G-5757	A	"	4X	
Exp. 26205	B	"	3X	

(Footnotes appear at end of table.)

(continued)

TABLE 2.--(continued)

Hybrid*	Test**	Color	Cross <sup>+</sup>	Source of Hybrid
Gutwein	80	A	2X	Fred Gutwein & Sons, Inc.
	86	A	2X	R.R. 1, Box 40
	89	B	2X	Francesville, Ind. 47946
Holden	1020	C	3X	Holdens Foundation Seeds
	1022	C	2X(Mod)	Williamsburg, Ia.
	1028	C	2X(Mod)	52361
Hulting	X770	BC	2X	"Hulting Hybrids"--Div. of
	X877	AC	2X	Ferry-Morse
	X8775	C	3X	Box 24
	X9880	AB	3X	Geneseo, Ill. 61254
McNair	X180	ABC	2X	McNair Seed Co.
	X190	ABC	2X	P.O. Box 706
	X210	ABC	2X	Laurinburg, N.C.
	X300	BC	2X	28352
	225	BC	4X	
	X233	B	2X	
Migro	M-0711	AB	2X	Migro Hybrids
	M-5045	B	4X	Box 7
	M-6646	B	2X	Mitchell, Ind. 47446
	M-6666	B	2X	
	M-7072	AB	2X	
	M-7701	A	2X	
	Exp. 7070	B	2X	
	Exp. 7090	B	2X	
Moews	SM822	A	2X	Moews Seed Co.
	101W	A	2X	P.O.Box 277 Granville, Ill. 61326
Muncy Chief	SX550	B	2X	Muncy Chief Hybrids
	SX662	AB	2X	Market & High Streets
	H764	B	4X	Muncy, Pa. 17756
	3X898	A	3X	
Northrup-King	PX50A	B	2X	Northrup,King & Co.
	PX74	B	2X	1500 Jackson St., N.E.
	PX76	B	2X	Minneapolis, Minn.55413
	PX77	A	2X	
	PX616	A	2X	
	PX670	A	3X	
	NK1922	C	3X	
	NK1923	C	3X	
	NK1925	C	3X	

(continued)

TABLE 13.--TWO-YEAR SUMMARY, NORMAL POPULATION,  
ALL NON-VIRUS LOCATIONS, 1972 AND 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
PIONEER BRAND 3369A	153.2	19.5	86.3	8.0
BO-JAC X1-83	151.6	19.6	85.7	8.4
T-E EXP. 6935	151.5	20.7	85.1	7.1
MIGRO M-7701	147.9	20.5	87.3	12.9
PIONEER BRAND 3368	142.7	20.1	83.1	7.5
PRINCETON SX 850	140.8	19.7	86.6	9.3
ASGROW RX 100	140.5	21.4	85.3	8.3
P-A-G SX 520	140.4	19.5	85.8	6.9
DEKALB XL85A	140.3	21.4	83.0	11.1
ASGROW RX 115	139.1	20.8	86.0	15.3
P-A-G SX 39	138.3	21.2	79.8	8.1
STEWART SX 71	137.6	20.3	84.8	11.1
SO.STATES S5750	137.5	19.8	85.7	6.6
DEKALB XL72A	134.2	21.1	85.4	7.6
DEKALB XL74	132.4	19.7	83.3	9.7
HULTING X877	131.7	20.3	85.5	13.8
PRINCETON SX 836	131.5	19.6	81.3	9.2
PIONEER BRAND 3571	131.0	18.0	86.0	3.6
GUTWEIN 80	130.7	21.0	80.6	10.4
NORTHROP-KING PX616	129.9	19.1	84.6	11.9
MUNCY CHIEF SX662	129.8	20.4	87.5	10.9
MENAIR X210	127.6	21.5	81.7	9.8
FUNK'S 64646	126.9	20.4	80.8	7.1
MIGRO M-0711	124.9	21.6	80.9	9.2
NORTHROP-KING PX670	124.0	19.2	86.7	7.5
FUNK'S 65757	123.2	21.9	78.6	9.1
SO.STATES S5698	122.7	19.8	86.8	9.4
THOMPSON T-120Y	121.2	20.5	78.6	12.7
T-E EXP. 6930	116.1	21.5	78.1	14.9
DEKALB XL64	114.6	19.6	80.5	10.3
KENTUCKY 105	110.4	21.4	81.8	20.7
T-E MASTERMAKER	109.0	21.6	79.5	5.0
YELLOW AVERAGE	132.3	20.4	83.5	9.8
WHITE				
P-A-G SX 70W	136.4	22.6	84.8	15.7
MOEWS 101N	135.1	22.6	85.5	16.4
DEKALB XL390W	134.6	21.8	85.3	14.9
STULL'S 850W SX	133.0	22.7	86.0	19.1
P-A-G 644W	132.9	21.6	85.2	14.2
PIONEER BRAND 511A	131.8	22.2	84.7	18.7
KENTUCKY 5921W	121.5	20.9	83.7	21.1
WHITE AVERAGE	132.2	22.1	85.0	17.2
GRAND AVERAGE	132.3	20.7	83.8	11.1

TABLE 12.--ANNUAL SUMMARY, NORMAL POPULATION,  
ALL NON-VIRUS LOCATIONS, 1973.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
ZIMMERMAN Z24	156.7	19.4	89.9	3.7
NIGRO M-7072	153.5	20.1	88.5	4.0
BO-JAC X1-83	151.6	19.9	88.2	5.6
PIONEER BRAND 3369A	151.2	19.6	84.8	2.1
DEKALB XL80	151.2	21.9	87.2	3.6
T-E EXP. 6935	150.8	21.6	88.5	4.3
NIGRO M-7701	148.9	21.5	86.1	5.5
DEKALB XL85A	146.9	22.2	87.0	6.2
MCNAIR X190	146.6	22.1	85.3	1.7
ASGROW RX 115	145.0	21.7	86.6	4.7
STEWART SX 71	144.2	20.6	86.9	3.8
S S HYBRIDS JX-86	143.8	19.9	81.8	4.4
P-A-G SX 520	143.4	19.5	87.6	1.8
S S HYBRIDS JX-87	142.5	21.6	85.5	6.2
PIONEER BRAND 3368	142.3	20.4	80.4	1.8
FUNK'S G4864	142.2	22.1	87.4	3.0
GUTHEIN 86	141.2	19.5	84.2	3.0
BO-JAC X1A	141.0	19.8	82.7	4.7
SUPER CROST 7772	140.9	20.4	88.4	3.5
P-A-G SX 98	140.8	22.0	85.4	2.7
PRINCETON SX 850	140.7	19.9	84.9	2.2
FUNK'S G4628	140.5	22.1	86.0	2.2
RICKARD R-600	140.1	20.2	87.0	3.2
P-A-G SX 39	139.9	21.9	81.3	2.4
ASGROW RX 100	139.2	21.9	85.8	4.3
P-A-G SX 92	138.8	22.4	86.1	2.8
SO. STATES SS750	136.8	19.9	88.9	2.8
NORTHROP-KING PX77	136.7	19.5	87.0	1.7
DEKALB KLTZA	136.5	21.7	89.5	1.5
GUTHEIN 80	136.3	21.4	81.5	5.2
B & B 11-7	136.1	21.3	84.8	5.5
MUNCY CHIEF SX662	136.1	20.8	88.0	2.4
SO. STATES SS775	136.0	20.6	84.0	1.9
HULTING X877	135.4	20.5	86.3	3.9
T-E MASTERMAKER	134.6	22.2	83.2	1.9
FUNK'S G4648	133.8	21.8	87.6	4.0
VORIS SEEDS V2622	133.4	20.8	86.8	4.0
RICKARD R-606	133.2	20.0	84.1	2.3
TROJAN TXS 113	133.0	20.4	82.1	2.5
PIONEER BRAND 3571	133.0	17.1	86.2	1.3
MDEWS SM822	132.6	20.5	78.3	4.8
HULTING X9880	132.4	21.8	85.4	5.1
B & B 9-2	131.9	19.9	87.2	2.8
MCNAIR X210	131.6	22.3	83.2	3.2
FUNK'S G4646	131.4	21.4	82.4	4.0
DEKALB XL74	130.8	19.9	84.9	3.0
PRINCETON SX 836	130.1	19.8	82.5	3.3
B & B 10-3	129.9	20.5	86.3	3.7
TROJAN TX 113	129.8	20.9	84.6	1.4
TROJAN TX 117	129.7	20.7	84.6	1.5
STULL'S SX720	128.9	21.0	85.9	2.5
STEWART SX 58	128.8	21.3	76.8	1.0
MUNCY CHIEF 3X898	128.8	21.4	79.3	4.1
STULL'S 809A SP	126.7	21.0	83.6	7.6
STULL'S SX707	126.5	20.1	86.8	2.2
SO. STATES SS698	126.5	20.1	89.1	3.1
TROJAN TXS 124	125.8	19.8	87.0	6.2
FUNK'S G5757	124.8	22.4	83.4	4.6
NORTHROP-KING PX670	123.7	19.6	87.4	3.7
VORIS SEEDS V2502	122.7	18.5	88.5	1.7
NORTHROP-KING PX616	122.6	19.1	80.9	6.1
PIONEER BRAND 3334A	122.4	20.1	81.5	2.9
KENTUCKY 105	121.7	22.1	85.4	9.3
DEKALB XL64	121.0	20.1	84.4	3.0
T-E EXP. 6930	119.9	22.1	78.5	4.2
SUPER CROST S85	119.8	21.8	75.1	2.6
MCNAIR X180	119.6	19.2	81.0	8.3
THOMPSON T-120Y	117.0	21.4	77.5	6.5
NIGRO M-0711	116.0	22.0	80.4	2.2
THOMPSON SX10Y	114.7	20.3	72.1	1.3
YELLOW AVERAGE	134.6	20.8	84.5	3.6
WHITE				
PIONEER BRAND 511A	136.4	22.8	84.6	7.5
P-A-G 644W	135.0	22.2	88.0	4.0
P-A-G SX 70W	132.9	23.4	85.8	8.2
DEKALB XL390W	132.7	22.6	87.8	4.8
ZIMMERMAN Z10	129.5	23.3	79.4	6.1
MDEWS 101W	129.3	23.3	87.6	7.6
KENTUCKY 5921W	128.7	21.7	86.0	6.5
ZIMMERMAN Z11	128.2	25.0	62.2	2.0
PRINCETON 990-A	127.5	20.8	85.4	9.0
STULL'S 850W SX	126.9	22.9	87.0	13.8
T-E M-20-W	118.4	22.8	76.4	5.1
WHITE AVERAGE	129.6	22.8	82.8	6.8
GRAND AVERAGE	133.9	21.0	84.3	4.0

TABLE 2.--(continued)

Hybrid#	Test#*	Color	Cross <sup>+</sup>	Source of Hybrid	
P.A.G.	SX17A	C	Yellow	2X	P.A.G. Seeds
	SX39	A	"	2X	Box 2187 Loop Station
	SX92	A	"	2X	Minneapolis, Minn.
	SX98	A	"	2X	55402
	SX520	A	"	2X	
	SX70W	A	White	2X	
	644W	A	"	3X	
Pioneer Brand	3147	C	Yellow	2X(Mod)	Pioneer Hi-Bred, Inc.
	3179	C	"	2X(Mod)	221 N. Main St.
	3334A	A	"	2X	Tipton, Ind. 46072
	3368	A	"	2X(Mod)	
	3369A	A	"	2X	
	3571	AB	"	2X	
	Ex p.0366A	B	"		
	511A	A	White	4X	
Princeton	SX-650	C	Yellow	2X	Princeton Farms
	SX-836	A	"	2X	P.O.Box 319
	SX-850	A	"	2X	Princeton, Ind. 47670
	SX-935	C	White	SP	
	990-A	A	"	4X	
Rickard	R600	A	Yellow	4X	F. W. Rickard Seeds Inc.
	R606	A	"	4X	Winchester, Ky.40391
Southern States	SS698	A	Yellow	SP	Southern States Coop., Inc.
	SS750	A	"	SP	2600 Durham St.
	SS775	A	"	2X	Richmond, Va. 23220
	SS866	C	"	4X	
Stewart	SX54	B	Yellow	2X	Stewart Hybrids
	SX58	A	"	2X	Princeville, Ill.61559
	SX71	A	"	2X	
S.S. Hybrids	JX86	A	Yellow	2X	S.S. Hybrids
	JX87	A	"	2X	Camden, Ind. 46917
Stull	707	AB	Yellow	2X	Stull Hybrids Inc.
	720	A	"	2X	P.O.Box 7
	809	B	"	2X	Sebree, Ky. 42455
	809A	AC	"	3X	
	877	B	"	2X	
	911	C	"	3X	
	Exp.8092	B	"	2X	
	Exp.8233	B	"	3X	
	450W	C	White	4X	
	555W	C	"	4X	
	560W	C	"	3X	
	850W	A	"	2X	

(continued)

TABLE 11.--ANNUAL SUMMARY, NORMAL POPULATION, QUICKSAND, KY.

HYBRID	3-YR		2-YR		1973 RESULTS		
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED
YELLOW							
DEKALB XL80			181.8	24.1	96.9	5.4	
DEKALB XL85A	133.9	160.1	180.4	23.6	93.2	1.1	
FUNK'S G4864			180.1	23.9	93.2	1.2	
ASGROW RX 115		139.3	179.7	23.1	92.7	1.7	
PIONEER BRAND 3369A	143.2	169.2	177.7	21.6	92.2	0.0	
ZIMMERMAN Z24			176.9	21.5	93.2	0.6	
STEWART SX 71	138.6	143.3	175.7	21.5	91.7	1.1	
MIGRO M-7701		150.9	175.1	24.5	92.2	3.5	
MIGRO M-7072			171.9	21.5	96.4	0.0	
P-A-G SX 520		151.1	171.8	21.7	96.9	5.3	
P-A-G SX 92			169.4	23.6	94.3	1.6	
SO. STATES S5775			165.2	23.9	91.7	0.0	
GUTWEIN 80		127.1	165.2	22.9	86.5	2.4	
KENTUCKY 105	88.6	122.0	164.7	24.4	94.3	8.5	
PRINCETON SX 850	138.5	154.5	162.4	22.6	91.7	2.2	
RICKARD R-600			162.4	22.6	90.6	0.6	
S S HYBRIDS JX-87			161.0	24.6	95.8	1.1	
NORTHROP-KING PX616	158.2	158.2	159.4	20.6	94.9	4.9	
MCAIR X2128			145.7	23.8	92.7	2.3	
ASGROW RX 100	118.5	148.1	158.4	23.8	91.7	3.4	
S S HYBRIDS JX-86			158.1	21.3	91.7	2.3	
P-A-G SX 39	131.0	152.7	157.8	23.5	90.1	1.2	
PIONEER BRAND 3571	119.9	149.5	157.2	18.0	92.2	0.6	
B & B 9-2			157.2	20.7	91.1	5.2	
RICKARD R-606			156.9	22.0	90.1	5.0	
STULL'S SX707			155.9	21.5	94.3	1.7	
SO. STATES S5750			155.9	21.3	97.9	0.5	
MUNCY CHIEF 3X898		146.0	155.5	23.2	87.0	0.6	
TROJAN TXS 113			155.1	23.2	93.8	0.5	
MUNCY CHIEF SX662			154.0	23.5	92.2	0.5	
PIONEER BRAND 3368	132.5	156.9	152.0	21.6	88.5	0.0	
STULL'S 809A SP			150.9	23.5	92.7	9.6	
BD-JAC X1-83			150.3	21.5	93.8	6.3	
SUPER CROST 7772		152.8	150.2	22.9	98.4	1.6	
THOMPSON T-120Y		146.9	149.3	22.4	87.5	4.8	
DEKALB XL74		139.2	149.2	22.1	91.7	0.0	
BD-JAC X1A			148.9	22.3	89.6	9.6	
SO. STATES S5698			148.6	20.8	94.3	0.5	
T-E EXP. 6935			148.4	23.9	91.7	2.3	
VORIS SEEDS V2502		154.4	147.5	20.6	94.8	0.5	
STULL'S SX720			147.0	23.8	94.8	1.6	
NORTHROP-KING PX77			145.5	22.3	96.9	1.6	
T-E MASTERMAKER	92.9	107.4	145.3	22.6	93.8	0.0	
FUNK'S G4646	116.4	120.3	145.1	23.8	86.5	0.0	
FUNK'S G4648			144.7	22.9	97.9	3.2	
MCAIR X180			141.4	21.1	89.6	11.7	
NORTHROP-KING PX670		125.6	141.3	21.4	94.8	1.6	
TROJAN TX 113			140.8	21.8	95.8	0.5	
P-A-G SX 98			140.3	23.2	90.1	1.1	
HULTING X877		133.3	138.5	22.2	95.8	1.1	
GUTWEIN 86			137.2	20.7	92.2	1.8	
FUNK'S G5757	118.9	127.1	137.0	25.1	88.5	4.1	
VORIS SEEDS V2622			135.9	22.1	87.5	5.2	
B & B 11-7			135.4	23.1	91.1	5.2	
PRINCETON SX 836	112.7	123.7	135.2	22.0	88.0	3.6	
FUNK'S G4628			134.6	23.2	86.5	1.7	
TROJAN TX 117			134.5	22.5	89.6	1.8	
MCAIR X190			133.9	23.1	93.2	0.6	
THOMPSON SX10Y			132.0	22.9	81.3	0.6	
STEWART SX 58			130.8	23.0	82.3	3.3	
MOEWS S822			130.7	21.6	76.6	2.1	
B & B 10-3			130.5	22.8	89.6	5.9	
PIONEER BRAND 3334A			125.4	19.7	95.3	2.7	
DEKALB XL72A		116.2	121.2	23.5	95.3	0.0	
T-E EXP. 6930		106.7	120.7	22.4	87.0	11.9	
TROJAN TXS 124			118.1	20.6	92.2	10.2	
DEKALB XL64	82.2	98.3	116.6	20.9	91.7	6.3	
MIGRO M-0711	108.1	120.4	115.6	23.3	88.5	1.8	
SUPER CROST S85			115.1	22.8	82.8	4.4	
HULTING X9880			114.6	23.8	92.2	12.9	
YELLOW AVERAGE							
	120.9	138.3	149.2	22.5	91.6	3.0	
WHITE							
ZIMMERMAN Z11			182.0	27.7	82.3	0.7	
P-A-G 644H	130.1	144.4	174.8	23.8	96.4	7.5	
PRINCETON 990-A			167.8	23.2	96.9	9.7	
ZIMMERMAN Z10			166.0	26.8	88.5	1.2	
PIONEER BRAND 511A	114.8	130.6	161.6	24.9	90.6	5.8	
DEKALB XL390H		143.0	160.9	26.6	94.3	0.0	
MOEWS LOIN	133.8	145.4	157.1	26.4	93.8	0.6	
KENTUCKY 5921H	95.2	118.7	153.7	25.3	93.2	6.7	
STULL'S 850H SX	128.7	144.9	147.5	26.4	96.4	2.1	
T-E M-20-W			142.4	26.4	82.8	3.7	
P-A-G SX 70W		123.7	132.7	25.3	89.6	0.6	
WHITE AVERAGE							
	120.7	135.8	158.8	25.7	91.3	3.5	
GRAND AVERAGE							
	119.4	137.8	150.5	22.9	91.6	3.1	

TABLE 2.--(continued)

Hybrid#	Test**	Color	Cross <sup>+</sup>	Source of Hybrid
Taylor-Evans	Mastermaker	A	2X	Taylor-Evans Seed Co.
	Binmaster	A	4X	P.O. Box 68
	(Exp. 6930)			Tulia, Tx. 79088
	Exp. 6935	A	2X	
	VR-20-Y	C	4X	
	M-20-W	AC	4X	
Thompson	SK10Y	A	2X	Thompson Hybrid Seed Corn
	T120Y	A	4X	R.R.#2, Box 150
				Hillsboro, Ky. 41049
Trojan	X54	C	2X	Trojan Seed Co.
	MDM111	C	2X	Windfall, Ind. 46076
	TX113	AB	3X	
	TXS113	AB	2X	
	TX117	AB	3X	
	TXS124	A	2X	
	X2722	C	2X (Mod)	
	X3524	C	3X	
Voris	V2502	AB	2X	Voris Seeds, Inc.
	V2562	B	2X	Box 457
	V2622	A	2X	Windfall, Ind. 46076
	V2632	C	2X	
Zimmerman	Z24	AC	2X	Zimmerman's Hybrids
	Z10	A	2X	R.R.#2
	Z11	AC	2X	Evansville, Ind. 47712

\* NOTE: The names Pioneer, Dekalb, Funk, P.A.G., etc. refer to the company while the number in the second column is the hybrid designation.

\*\* A = Performance test-Normal population, B = Performance test-High population, C = Corn virus test-Normal population.

+ 2X = Single cross, 3X = Three-way cross, 4X = Double cross, SP = Special Cross.

TABLE 10.--ANNUAL SUMMARY, NORMAL POPULATION, LEXINGTON, KY.

HYBRID	3-YR	2-YR	1973 RESULTS				
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED	
YELLOW							
NORTHROP-KING PX77			172.7	18.1	91.1	7.5	
GUTWEIN 86			169.4	17.9	87.0	0.6	
ZIMMERMAN 224			169.1	17.9	89.6	4.0	
SO. STATES SS750		158.9	166.9	19.1	91.7	4.0	
DEKALB XL80			165.5	20.2	88.5	6.0	
P-A-G SX 520		162.2	161.7	18.4	89.1	1.8	
PRINCETON SX 850		168.5	161.2	20.0	92.7	9.5	
PIONEER BRAND 3369A		176.3	163.3	158.7	18.5	77.6	4.8
PIONEER BRAND 3368		173.3	161.6	158.5	19.1	88.5	2.3
TROJAN TXS 124			157.3	19.7	93.8	8.3	
P-A-G SX 39		157.8	142.5	157.1	20.8	91.7	5.6
TROJAN TXS 113			157.0	18.4	90.1	7.0	
T-E EXP. 6935		168.6	156.9	20.6	88.0	4.7	
HULTING X877		150.4	156.6	18.4	92.7	13.3	
MIGRO M-7701		155.9	156.6	20.7	87.0	8.9	
TROJAN TX 113			154.7	19.4	90.6	3.5	
DEKALB XL85A		159.7	145.4	153.9	21.8	92.2	18.0
SUPER CROST 7772			153.9	18.7	86.5	11.5	
S S HYBRIDS JX-86			153.4	18.7	81.8	15.3	
GUTWEIN 80		129.0	152.6	21.8	87.0	10.1	
MCNAIR X210		142.4	151.9	20.5	90.1	9.6	
RICKARD R-606			151.8	18.4	83.9	5.1	
P-A-G SX 92			151.5	21.5	89.6	6.4	
DEKALB XL74		154.6	151.5	19.4	92.2	9.8	
B & B 10-3			150.1	18.9	85.9	3.8	
FUNK'S G4864			150.1	20.4	91.7	9.4	
STEWART SX 71		168.8	153.0	150.0	19.8	93.2	11.5
BO-JAC X1A			148.6	20.3	81.3	5.7	
PRINCETON SX 836		163.3	144.8	148.5	18.3	88.0	10.7
SO. STATES SS775			147.7	18.6	80.7	1.8	
MCNAIR X190			147.5	20.4	87.0	5.2	
STULL'S SX747			147.2	19.7	84.7	7.2	
S S HYBRIDS JX-87			147.0	20.6	86.5	23.1	
RICKARD R-600			146.9	21.0	91.7	13.1	
BO-JAC X1-83		163.6	146.4	19.5	80.2	8.1	
MUNCY CHIEF SX662		149.0	146.0	18.6	90.1	7.0	
HULTING X9880			145.3	19.9	84.9	9.7	
ASGROW RX 115		149.2	145.0	21.3	83.3	7.7	
MOEWS SM222			145.0	20.3	80.2	7.9	
VORIS SEEDS V2622			143.8	20.2	93.2	10.8	
B & B 10-3			143.3	19.9	90.1	10.5	
FUNK'S G4646		156.8	145.2	143.3	21.0	85.4	19.4
B & B 11-7			142.6	21.3	80.7	10.2	
NORTHROP-KING PX670		140.0	141.9	18.9	92.2	11.1	
MIGRO M-7072			140.9	19.7	90.6	19.6	
FUNK'S G5757		152.7	134.1	139.9	20.9	85.9	9.8
FUNK'S G4628			137.7	20.8	87.7	14.9	
PIONEER BRAND 3571		142.4	129.0	136.6	17.6	87.0	6.6
TROJAN TX 117			136.5	20.7	91.1	5.7	
P-A-G SX 98			136.2	21.0	88.0	6.6	
SO. STATES SS698		159.8	137.8	136.1	21.6	94.8	6.0
DEKALB XL64		147.1	148.6	135.5	17.5	83.9	6.8
ASGROW RX 100			135.2	20.2	89.1	20.0	
STULL'S SX720			132.0	20.6	77.1	10.4	
PIONEER BRAND 3334A			132.0	21.2	92.2	3.9	
STEWART SX 58			130.9	20.8	81.3	2.5	
T-E MASTERMAKER		132.3	115.7	130.0	20.7	89.1	6.6
DEKALB XL72A		132.9	129.2	21.0	87.0	5.6	
VORIS SEEDS V2502			128.7	17.8	93.8	7.4	
THOMPSON SX10Y			126.0	18.9	71.9	1.9	
MCNAIR X180			125.6	16.7	83.3	34.5	
KENTUCKY 105		114.6	115.6	124.5	22.2	80.2	20.0
NORTHROP-KING PX616		148.8	130.0	122.5	19.2	80.7	23.0
STULL'S 809A SP			120.9	19.9	80.2	29.9	
MUNCY CHIEF 3X898			118.1	20.5	72.9	10.8	
SUPER CROST S85			117.9	20.3	77.1	4.5	
FUNK'S G4648			117.8	22.2	84.4	15.1	
MIGRO M-0711		143.0	132.1	115.8	21.9	85.4	8.6
THOMPSON T-120Y			129.4	114.4	21.0	83.5	24.4
T-E EXP. 6930			125.6	21.2	75.0	4.7	
YELLOW AVERAGE	154.1	144.1	143.7	19.9	86.7	9.7	
WHITE							
P-A-G 644H	157.4	145.5	147.9	20.9	95.8	11.9	
P-A-G SX 70H		144.5	144.7	22.8	87.5	24.0	
PRINCETON 990-A			143.6	19.7	85.9	16.0	
MOEWS 101N	172.9	150.4	140.1	21.1	82.8	13.3	
DEKALB XL390H		150.5	138.9	21.8	96.9	16.1	
KENTUCKY 5921W	135.0	127.4	134.5	20.4	84.4	14.0	
ZIMMERMAN Z10			121.0	20.5	79.2	21.4	
STULL'S 850H SX	153.0	133.1	119.3	22.1	85.9	48.9	
T-E M-20-W			118.0	19.8	77.1	17.1	
ZIMMERMAN Z11			116.1	25.9	50.0	7.9	
PIONEER BRAND 511A	140.9	121.4	109.7	20.9	80.2	11.0	
WHITE AVERAGE	151.8	139.0	130.4	21.4	82.3	18.3	
GRAND AVERAGE	153.5	143.2	141.9	20.1	86.1	10.8	

TABLE 3.--AGRONOMIC INFORMATION PERTAINING TO 1973 TEST LOCATIONS.

Location and Cooperator	Soil Type	Fertilizer Applied	Herbicide Treatment	Planting Date	Harvest Date	Comments
(1) Mayfield, Ky. Berthal Johnson	Collins Silt Loam	N-100 lbs/A P- 22 lbs/A K- 25 lbs/A	Aatrex and Lasso Broadcast	May 22	Oct. 16	Puradan applied at all locations
(2) Princeton, Ky. Western Ky. Substation	Huntington & Lindsides Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	Aatrex and Sutan Preplant	May 10 " 15	Sept. 21 " 26	
(3) Henderson, Ky. James McConathy	Wakeland Silt Loam	N-100 lbs/A P- 40 lbs/A K-100 lbs/A	Aatrex and Sutan Preplant	June 8	Oct. 17 " 18	
(4) Hartford, Ky. Walter & Earl Campbell	Stendal Silt Loam	N-200 lbs/A P- 35 lbs/A K- 66 lbs/A	Aatrex and Sutan Preplant	June 9	Oct. 22	
(5) Franklin, Ky. Bob Wade	Pembroke Silt Loam	N-190 lbs/A P- 20 lbs/A K- 18 lbs/A	Aatrex, Paraquat, and Surfactant	May 9	Sept. 18 " 19	No-till Small Grain
(6) Elizabethtown, Ky. Morris Ray Cave and A. C. Summers	Crider Silt Loam	N-200 lbs/A P- 44 lbs/A K- 83 lbs/A	Aatrex, Paraquat, and Surfactant	May 16	Sept. 27 " "	No-till Rescue Sod
(7) Lexington, Ky. Ky. A.E.S. Spindletop Farm	Lanton Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	Aatrex and Sutan Preplant	May 18	Oct. 2 thru Oct. 9	
(8) Irvine, Ky. A. C. Arvin	Elk Silt Loam	N- 12 lbs/A P- 5 lbs/A K- 10 lbs/A	2,4-D Post-emergence	May 17	Oct. 11	Corn Viruses
(9) Quicksand, Ky. Robinson Substation	Philo Silt Loam	N-250 lbs/A P- 53 lbs/A K-100 lbs/A	Aatrex and Princep Broadcast	June 12	Oct. 24 " 25	

TABLE 4--ANNUAL SUMMARY, NORMAL POPULATION, MAYFIELD, KY.

HYBRID	3-YR	2-YR	1973 RESULTS							
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				
YELLOW										
T-E EXP. 6935		149.5	169.5	17.7	94.8	1.1				
ZIMMERMAN Z24			167.3	16.1	95.8	1.1				
MIGRO M-7701		155.0	162.7	17.0	94.8	2.7				
MCNAIR X180			153.8	19.3	89.5	0.6				
FUNK'S G4648			151.4	16.8	89.1	2.4				
MIGRO M-7072			149.4	16.3	92.2	2.3				
SUPER CROST 7772			148.7	16.3	88.5	0.6				
PIONEER BRAND 3369A		166.6	145.2	16.3	87.5	2.4				
GUTHWEIN 80			142.3	14.5	16.6	81.8	0.6			
BO-JAC X1-83			142.8	144.5	16.2	90.6	11.1			
NORTHRUP-KING PX77				144.0	15.9	93.2	1.7			
S S HYBRIDS JX-87				143.6	17.0	86.5	1.2			
STEWART SX 71		141.3	128.8	143.4	17.9	85.9	1.1			
HULTING X9800				143.4	19.0	87.0	0.0			
P-A-G SX 98				143.0	19.1	84.9	0.0			
ASGROW RX 115		148.3		142.8	16.9	86.5	12.0			
TROJAN TXS 113				141.0	16.3	84.9	1.9			
P-A-G SX 92				140.8	17.8	89.1	1.7			
DEKALB XL80				139.8	17.9	83.9	2.5			
DEKALB XL72A				141.3	139.5	18.1	88.0	0.0		
DEKALB XL74				131.8	138.8	15.5	87.0	1.2		
DEKALB XL85A				153.2	135.4	138.6	18.5	81.3	3.3	
T-E MASTERMAKER				124.1	98.3	138.2	19.9	88.5	2.4	
GUTHWEIN 86					137.9	15.5	87.0	0.0		
S S HYBRIDS JX-86					136.4	17.5	74.0	0.0		
TROJAN TX 113					136.3	18.4	85.9	1.2		
NUNCY CHIEF 3X898					135.0	17.7	78.6	0.7		
PIONEER BRAND 3368		162.2	148.2	135.0	16.6	81.3	0.3			
HULTING X877				123.4	134.0	15.8	87.0	1.8		
STULL'S SX707					133.2	16.8	85.9	1.7		
STEWART SX 58					132.0	17.1	75.5	0.0		
ASGROW RX 100		133.7	142.0	124.8	131.7	14.5	88.0	0.0		
PIONEER BRAND 3571					127.0	125.8	131.5	16.5	89.6	2.3
NUNCY CHIEF SX662					125.8	131.3	17.5	88.5	0.6	
MCNAIR X210					138.3	131.2	15.3	81.3	4.6	
BO-JAC X1A					130.9	19.1	83.3	1.9		
FUNK'S G4628					130.6	15.7	76.0	0.0		
PIONEER BRAND 3334A					129.5	14.9	93.8	0.0		
VORIS SEEDS V2622					128.8	16.9	89.6	0.0		
NORTHRUP-KING PX670					127.6	15.5	88.5	3.4		
DEKALB XL64		112.6			97.2	127.0	16.6	89.6	1.8	
PRINCETON SX 836					147.7	134.4	124.9	19.5	83.3	1.3
MIGRO M-0711					141.3	124.8	124.8	19.2	88.0	0.6
P-A-G SX 520					128.0	123.9	15.7	89.1	1.2	
MOEWS SM822						123.7	16.4	78.1	4.3	
B & B 11-7						123.1	18.0	90.1	11.7	
T-E EXP. 6930		113.5			122.3	18.6	78.6	0.7		
B & B 10-3					122.3	16.4	85.4	2.5		
FUNK'S G4648					120.9	18.8	81.3	1.3		
TROJAN TX 117					120.6	16.0	80.7	0.0		
TROJAN TXS 124					120.4	16.1	88.0	6.3		
THOMPSON SX10Y					120.0	16.4	72.4	0.0		
FUNK'S G5757					118.8	17.4	82.3	2.0		
RICKARD R-600		128.2	107.1		118.5	15.9	85.9	2.5		
STULL'S SX720					118.0	16.4	85.4	0.0		
SO.STATES SS750					113.5	117.2	15.6	89.6	5.3	
SO.STATES SS698					103.1	116.6	16.9	87.0	3.6	
FUNK'S G4646					132.6	115.1	114.3	18.1	78.1	0.8
PRINCETON SX 850					146.4	128.2	113.0	15.9	78.6	0.0
SO.STATES SS775						111.6	16.2	87.5	3.0	
NORTHRUP-KING PX616		130.4	130.4		111.1	14.8	80.7	0.6		
B & B 9-2					111.0	15.9	82.8	3.6		
STULL'S 809A SP					106.8	16.7	77.1	4.7		
RICKARD R-606					104.4	15.8	75.0	1.3		
MCNAIR X180					103.7	15.1	75.5	0.9		
P-A-G SX 39		143.0	121.6		103.0	17.7	64.1	2.4		
KENTUCKY 105					99.5	102.8	17.4	83.3	7.9	
SUPER CROST 585					100.0	10.8	62.5	0.0		
THOMPSON T-120Y					103.3	94.7	17.2	60.4	1.2	
YELLOW AVERAGE		136.9	127.3		130.0	17.0	84.2	2.1		
WHITE										
KENTUCKY 5921W		136.3	137.5		142.2	16.7	91.7	4.0		
MOEWS 101N					141.3	17.7	90.6	4.1		
DEKALB XL390W		166.3	151.0		136.0	17.6	91.7	2.2		
PIONEER BRAND 511A					139.7	134.7	18.5	79.7	5.5	
P-A-G 644H		157.5	139.9		124.0	18.2	85.4	2.4		
P-A-G SX 70W		142.1	138.4		123.1	18.4	91.7	0.6		
PRINCETON 990-A					143.2	122.6	17.6	87.5	7.4	
STULL'S 850W SX		148.7	135.4		118.8	18.0	81.3	12.1		
ZIMMERMAN Z11					113.5	20.4	56.3	0.8		
ZIMMERMAN Z10					108.8	17.1	75.5	7.9		
T-E M-20-W					96.1	17.2	56.3	0.0		
WHITE AVERAGE		150.2	140.7		123.8	17.9	80.7	4.3		
GRAND AVERAGE		139.5	129.7		129.2	17.1	83.7	2.4		

TABLE 9--ANNUAL SUMMARY, NORMAL POPULATION, NO-TILL, ELIZABETHTOWN, KY.

HYBRID	2-YR		1973 RESULTS						
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED			
YELLOW									
BO-JAC X1-83		150.1	143.3	21.8	83.6	6.6			
GUTHWEIN 86					141.5	19.4	85.9	2.8	
T-E EXP. 6935		150.3			138.0	22.3	93.6	13.9	
ZIMMERMAN Z24					133.5	20.1	86.7	7.2	
S S HYBRIDS JX-87					132.0	22.8	75.0	1.9	
MIGRO M-7701		145.6			129.3	21.8	78.9	9.9	
P-A-G SX 39					132.1	128.1	23.0	71.1	3.2
PIONEER BRAND 3369A					142.5	125.1	20.2	78.9	3.1
S S HYBRIDS JX-86					124.3	19.7	80.5	2.8	
MCNAIR X180					123.7	17.4	71.1	4.1	
SO.STATES SS775					123.4	19.0	81.3	1.0	
ASGROW RX 115		134.7			123.2	22.0	82.8	9.4	
DEKALB XL72A					134.9	122.9	22.2	82.8	2.1
FUNK'S G4864					122.8	23.7	84.4	7.6	
MIGRO M-7072					122.2	19.6	78.9	4.9	
ASGROW RX 100		133.6			121.6	21.8	89.1	5.3	
MOEWS SM822					120.5	21.4	71.1	5.4	
B & B 11-7					120.1	21.7	86.7	3.6	
DEKALB XL80					117.4	22.4	76.6	2.1	
STEWART SX 58					116.5	21.8	70.3	0.0	
PIONEER BRAND 3571					122.5	116.3	16.3	78.1	1.8
FUNK'S G4646					126.1	115.6	20.1	79.7	3.9
PIONEER BRAND 3334A					114.1	20.2	82.8	1.9	
STEWART SX 71					125.0	113.4	19.7	83.6	1.9
DEKALB XL85A					119.7	113.1	21.7	78.9	2.0
SUPER CROST 885					112.6	22.6	77.3	3.8	
TROJAN TX 113					112.0	19.3	83.6	1.8	
MCNAIR X180					111.2	17.8	84.4	3.7	
STULL'S SX720					110.9	20.8	95.2	2.7	
HULTING X9880					110.9	22.4	78.9	5.0	
T-E MASTERMAKER		102.2			110.4	21.8	63.3	1.1	
TROJAN TXS 124					107.2	20.8	74.2	2.1	
PRINCETON SX 850					127.3	110.1	19.4	87.5	1.8
HULTING X877					127.1	110.0	20.6	78.1	2.0
TROJAN TX 117					109.8	21.9	83.6	1.0	
BO-JAC X1A					108.0	19.9	68.0	2.1	
B & B 10-3					107.9	21.0	80.5	7.1	
FUNK'S G4648					107.5	19.3	89.1	5.3	
NORTHRUP-KING PX670					131.2	107.6	18.4	81.3	8.7
FUNK'S G5757					119.3	107.4	22.6	79.7	0.9
PIONEER BRAND 3368					121.6	106.6	20.8	74.2	7.3
NUNCY CHIEF SX662					105.2	105.1	20.6	79.7	2.9
PRINCETON SX 836					122.7	105.1	17.5	79.7	4.9
P-A-G SX 98					105.0	24.5	71.1	8.8	
VORIS SEEDS V2622					104.3	20.7	79.7	5.8	
KENTUCKY 105		115.7			103.5	21.3	79.7	27.5	
FUNK'S G4628					103.4	19.4	23.8	78.9	9.3
SO.STATES SS750					137.4	103.1	19.9	79.7	8.2
NORTHRUP-KING PX616					112.0	103.0	19.1	63.3	5.1
SUPER CROST 7772					102.8	21.6	75.0	2.5	
VORIS SEEDS V2502					102.6	19.0	80.5	3.9	
T-E EXP. 6930		115.0			102.5	23.7	73.4	6.2	
SO.STATES SS698					122.9	102.3	18.3	85.2	9.1
TROJAN TXS 113					100.0	20.6	77.3	5.0	
RICKARD R-606					99.5	19.3	81.3	3.8	
RICKARD R-600					99.2	19.8	68.0	1.2	
THOMPSON T-120Y		122.5			98.6	21.7	78.9	7.9	
STULL'S 809A SP					98.4	19.4	81.3	6.3	
NUNCY CHIEF 3X898					97.9	22.0	73.4	10.7	
P-A-G SX 92					97.6	22.4	71.9	5.1	
DEKALB XL64		101.5			96.0	20.8	79.7	2.0	
P-A-G SX 520					121.5	95.6	18.8	81.3	0.0
B & B 9-2					95.5	22.4	73.4	4.3	
GUTHWEIN 80					116.2	94.0	21.4	73.4	2.7
THOMPSON SX10Y					84.7	20.3	63.3	4.7	
DEKALB XL74		116.6			83.1	20.1	53.9	7.9	
MCNAIR X210					106.5	82.0	23.3	64.1	7.4
MIGRO M-0711					105.1	80.1	22.9	47.7	1.5
NORTHRUP-KING PX77						79.1	19.5	64.8	2.3
STULL'S SX707					74.8	19.8	70.3	4.0	
YELLOW AVERAGE		120.8	109.3		20.9	77.2	4.8		
WHITE									
DEKALB XL390W		131.0			114.8	22.5	88.3	6.2	
PIONEER BRAND 511A		112.9			107.8	22.3	82.8	16.5	
ZIMMERMAN Z10					104.4	24.8	78.1	8.0	
T-E M-20-W					103.5	25.4	74.2	8.3	
ZIMMERMAN Z11					103.5	24.9	61.7		

TABLE 8.--ANNUAL SUMMARY, NORMAL POPULATION, NO-TILL, FRANKLIN, KY.

HYBRID	3-YR		1973 RESULTS			
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW						
GUTWEIN 86			185.7	23.2	78.6	0.0
DEKALB XL85A	160.9	156.1	174.7	23.9	88.0	0.0
RICKARD R-600			172.5	22.4	85.4	0.0
ZIMMERMAN Z24			168.7	21.9	73.4	0.0
BO-JAC X1A			164.1	23.5	78.6	0.0
FUNK'S G4628			162.0	26.8	85.4	0.0
STULL'S 809A SP			159.7	24.9	68.8	0.0
SUPER CROST 7772			159.6	23.8	85.4	0.0
HULTING X9880			159.2	23.4	87.5	0.0
STEWART SX 71	169.3	157.2	158.6	25.5	77.6	0.0
DEKALB XL80			158.5	24.8	81.8	0.0
ASGROW RX 115		150.4	157.5	25.1	82.3	0.0
FUNK'S G4864			156.7	24.7	82.3	0.0
SO.STATES S5775			156.1	25.5	81.3	0.0
MIGRO M-7072			155.9	24.3	77.1	0.8
BO-JAC X1-83		156.9	155.7	25.1	80.2	0.0
RICKARD R-606			155.0	22.8	73.4	0.0
MCNAIR X190			154.1	26.2	78.1	0.0
PRINCETON SX 850	160.0	158.5	153.9	22.5	74.5	0.0
MUNCY CHIEF SX662		147.1	153.2	22.9	81.8	0.0
P-A-G SX 92			153.1	24.6	73.4	0.0
FUNK'S G4646	145.9	141.4	153.1	23.7	85.4	0.0
PIONEER BRAND 3369A	167.3	165.8	151.4	21.9	79.5	0.0
B & B 11-7			150.9	22.6	74.7	0.6
P-A-G SX 520		146.3	150.7	21.5	75.5	0.0
HULTING X877		145.2	150.3	22.8	74.5	0.0
P-A-G SX 98			149.8	24.6	80.2	1.4
VORIS SEEDS V2622			149.6	22.5	72.4	0.0
P-A-G SX 39	158.0	153.4	148.8	24.9	72.9	0.9
KENTUCKY 105		99.6	145.9	26.2	79.2	3.3
ASGROW RX 100	125.0	142.1	145.7	26.2	83.9	0.0
S S HYBRIDS JX-86			143.2	22.8	68.2	0.0
STULL'S SX707			142.8	24.2	78.6	0.0
SUPER CROST S85			142.5	24.1	78.1	2.1
TROJAN TX 117			142.2	24.4	78.6	0.7
T-E EXP. 6930		142.4	142.1	24.4	78.1	0.0
VORIS SEEDS V2502			140.9	21.6	85.4	0.0
NORTHROP-KING PX616	140.6	140.6	139.9	22.7	70.8	0.0
DEKALB XL72A			139.4	24.0	92.2	0.0
GUTWEIN 80		139.5	139.4	24.1	70.3	0.6
B & B 10-3			139.0	23.3	83.3	0.7
FUNK'S G4648			138.3	26.5	77.1	0.0
TROJAN TXS 124			137.0	22.7	73.4	0.0
FUNK'S G5757	152.6	144.1	136.5	24.3	78.1	2.0
THOMPSON T-120Y		137.2	136.0	24.0	68.2	0.7
DEKALB XL64		127.8	134.9	23.4	81.3	0.0
S S HYBRIDS JX-87			134.7	25.2	83.3	0.7
STEWART SX 58			133.8	23.0	69.3	0.0
NORTHROP-KING PX77			132.4	21.2	69.3	0.0
PIONEER BRAND 3368	147.1	136.7	132.4	25.3	62.5	0.0
T-E EXP. 6935		148.8	132.3	26.0	75.5	0.7
MOEWS S822			130.4	22.9	68.8	2.2
MCNAIR X210		132.9	130.3	25.0	65.6	0.0
SO.STATES S5698		129.4	130.3	23.6	81.3	0.0
B & B 9-2			129.8	25.1	88.0	1.2
STULL'S SX720			129.7	24.2	77.1	0.0
MUNCY CHIEF 3X898			127.8	23.7	68.2	0.0
SO.STATES S5750		137.8	125.6	23.5	76.0	0.0
TROJAN TXS 113			125.0	24.7	62.5	0.0
TROJAN TX 113			123.7	24.0	70.3	0.0
DEKALB XL64	130.4	123.4	122.6	24.3	70.6	0.0
THOMPSON SX10Y			121.1	23.3	66.1	0.0
MIGRO M-7701		142.9	120.5	23.1	64.6	0.0
PRINCETON SX 836	149.5	136.0	119.8	23.7	63.0	0.0
T-E MASTERMAKER		118.8	118.5	24.9	68.2	0.0
PIONEER BRAND 3571		139.8	118.1	20.8	74.0	0.0
MIGRO M-0711		146.5	110.3	24.9	74.5	0.6
NORTHROP-KING PX670		121.2	105.6	24.0	71.4	0.0
MCNAIR X180			102.4	24.2	58.3	0.0
PIONEER BRAND 3334A			96.9	24.2	47.9	0.0
YELLOW AVERAGE	144.4	141.2	141.7	23.9	75.7	0.3
WHITE						
MOEWS 101N	154.4	153.0	162.4	25.8	84.9	0.0
P-A-G SX 70H		162.7	155.1	24.9	84.9	0.0
PIONEER BRAND 511A	145.3	138.8	148.3	27.3	75.5	3.4
ZIMMERMAN Z10			146.9	24.9	79.7	0.0
STULL'S 850M SX	145.2	139.5	145.7	27.1	77.6	1.3
PRINCETON 990-A			139.9	23.0	70.8	3.0
KENTUCKY 5921W	113.9	134.4	136.0	24.6	80.7	0.6
T-E M-20-W			128.4	24.4	76.0	0.6
DEKALB XL390W		128.6	123.3	24.6	69.3	0.0
P-A-G 644H	135.1	123.2	122.4	24.7	77.6	0.0
ZIMMERMAN Z11			96.0	28.0	36.5	0.0
WHITE AVERAGE	138.8	140.0	136.8	25.4	74.0	0.8
GRAND AVERAGE	143.1	141.0	141.0	24.1	75.4	0.3

TABLE 5.--ANNUAL SUMMARY, NORMAL POPULATION, PRINCETON, KY.

HYBRID	3-YR		1973 RESULTS			
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW						
RICKARD R-600			166.8	19.6	85.9	0.0
MIGRO M-7072			158.8	20.4	85.9	0.0
P-A-G SX 98			158.1	21.4	85.9	0.0
P-A-G SX 520			149.2	15.7	20.4	82.3
BO-JAC X1-83	141.1		149.2	15.7	19.4	90.1
T-E EXP. 6935			149.6	15.3	21.6	89.6
ZIMMERMAN Z24			149.6	15.3	21.6	89.6
DEKALB XL72A			149.6	15.3	21.6	89.6
MIGRO M-7701			149.6	15.3	21.6	89.6
MCNAIR X190			149.6	15.3	21.6	89.6
P-A-G SX 39	144.2	141.7	144.5	21.8	79.7	0.0
S S HYBRIDS JX-86			144.0	20.6	83.9	0.0
PIONEER BRAND 3368	146.1	142.3	142.6	20.8	77.1	0.7
SO.STATES S5750		141.0	140.7	20.4	90.1	0.0
FUNK'S G4628			140.4	22.8	78.1	1.2
B & B 10-3			137.4	19.9	85.4	0.6
B & B 9-2			137.3	21.7	81.3	0.0
MCNAIR X210		126.6	136.7	22.6	81.3	0.0
DEKALB XL80			136.0	24.0	79.2	0.0
PIONEER BRAND 3571	125.2	125.7	135.8	20.6	87.0	0.6
VORIS SEEDS V2622			134.5	20.8	82.8	0.0
STULL'S SX720			134.3	20.3	82.3	0.0
STEWART SX 71	138.4	128.2	133.8	20.3	83.9	0.0
FUNK'S G4648			133.8	24.1	83.3	0.7
DEKALB XL85A	145.0	141.9	133.3	22.8	80.7	0.7
FUNK'S G4864			132.4	23.5	83.3	0.0
T-E MASTERMAKER	128.3	112.4	131.1	23.4	76.0	0.0
ASGROW RX 115			130.5	22.5	84.9	0.0
MUNCY CHIEF 3X898		138.3	130.1	21.9	79.2	0.7
B & B 11-7			130.0	21.3	74.5	1.0
PRINCETON SX 850	140.0	129.5	129.7	19.4	76.6	0.7
STULL'S 809A SP			129.5	21.7	81.3	1.2
MOEWS S822			129.4	21.3	71.9	2.9
NORTHROP-KING PX77			126.8	19.5	79.7	0.6
MUNCY CHIEF SX662			114.7	12.6	22.1	82.3
NORTHROP-KING PX670			125.7	20.4	88.5	0.6
RICKARD R-606			116.7	12.5	21.8	84.9
ASGROW RX 100			124.2	21.8	71.9	0.0
PIONEER BRAND 3369A			141.6	132.5	123.6	19.7
FUNK'S G4646			121.7	21.7	74.5	0.7
BO-JAC X1A	130.3	121.9	121.2	19.8	70.3	1.3
PIONEER BRAND 3334A			120.2	21.4	84.4	0.0
SUPER CROST 7772			119.7	20.2	77.6	0.0
GUTWEIN 80		134.0	119.5	21.9	72.9	0.8
HULTING X9880			118.8	22.5	66.7	1.4
P-A-G SX 92			118.4	23.9	81.3	1.2
HULTING X877			123.4	117.5	23.8	82.3
SO.STATES S5698			116.2	116.6	19.7	80.7
DEKALB XL76			131.4	116.4	21.1	81.8
TROJAN TX 117			116.0	21.0	74.0	0.0
MIGRO M-0711		134.8	114.3	21.8	71.4	0.0
STEWART SX 58			113.8	23.2	69.0	0.0
MCNAIR X180			112.6	20.7	76.6	0.8
FUNK'S G5757	125.9	116.3	112.4	24.2	77.6	1.3
KENTUCKY 105		82.8	99.3	111.4	22.1	77.6
S S HYBRIDS JX-87			111.2	21.2	68.8	3.1
DEKALB XL64	118.0	117.0	110.2	21.8	77.6	0.0
THOMPSON SX10Y			110.0	20.7	64.6	0.0
PRINCETON SX 836	120.3	114.3	108.1	19.9	78.1	0.0
SUPER CROST S85			106.0	22.8	65.1	0.7
TROJAN TXS 124			104.9	20.4	81.8	1.8
SO.STATES S5775			102.0	20.7	66.1	3.7
THOMPSON T-120Y			99.4	23.7	71.4	0.0
NORTHROP-KING PX616	109.8	109.8	95.0	20.3	66.7	3.4
TROJAN TXS 113			93.2	20.6	63.0	0.0
STULL'S SX707			89.6	23.2	84.9	0.0
T-E EXP. 6930		84.7	89.4	21.6	58.9	0.7
VORIS SEEDS V2502			88.7	19.2	71.9	0.0
TROJAN TX 113			87.1	23.3	64.6	0.6
GUTWEIN 86			87.1	20.6	60.4	6.3
YELLOW AVERAGE	128.7	125.8	124.9	21.4	78.2	0.7
WHITE						
PIONEER BRAND 511A	147.2	142.9	141.4	22.2	82.3	0.0
P-A-G 644H	149.0	141.0	136.8	22.8	84.4	0.6
P-A-G SX 70H			145.7	135.8	24.3	87.0
KENTUCKY 5921W	103.3	122.3	132.3	23.1	80.7	0.0
STULL'S 850W SX	146.8	135.6	131.7	23.8	82.8	2.5
ZIMMERMAN Z10			127.8	27.2	68.2	0.0
DEKALB XL390W		141.0	126.1	24.3	79.7	0.7
ZIMMERMAN Z11			117.5	24.2	58.9	0.0
T-E M-20-W			115.6	24.5	74.0	0.0
PRINCETON 990-A			113.9	22.0	80.7	0.6
MOEWS 101N	138.8	126.2	102.7	24.8	81.3	4.0
WHITE AVERAGE	136.8	136.4	125.6	23.9	78.2	0.8
GRAND AVERAGE	129.8	127.7	125.0	21.7	78.2	0.7

TABLE 6.—ANNUAL SUMMARY, NORMAL POPULATION, HENDERSON, KY.

HYBRID	3-YR	2-YR	1973 RESULTS			
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED
<b>YELLOW</b>						
PIONEER BRAND 3369A	157.6	162.9	180.7	20.2	94.8	0.5
BO-JAC X1-83		157.0	176.6	19.9	92.2	0.0
DEKALB XL80			174.0	22.0	93.8	5.1
ZIMMERMAN Z24			172.8	20.5	96.9	0.0
S S HYBRIDS JX-87			170.0	21.1	92.2	0.0
T-E EXP. 6935		157.0	169.4	21.1	94.8	1.1
FUNK'S G4628			169.1	21.1	93.8	0.6
MIGRO M-7072			168.4	20.2	91.1	0.0
IGRO M-7071		153.6	168.3	23.4	90.3	1.1
TRUJAN TXS 113			167.4	21.0	94.3	1.1
BO-JAC X1A			164.5	20.5	96.4	1.1
B & B 11-7			164.0	21.3	89.6	1.2
ASGROW RX 115		151.9	163.7	22.5	90.6	0.0
SUPER CROST 7772			163.4	20.7	94.3	1.7
HENNAIR X190			163.2	22.8	89.6	2.3
PIONEER BRAND 3368	146.6	145.3	162.6	20.2	85.9	0.0
SO.STATES S5775			162.4	20.3	94.3	0.0
PRINCETON SX 850	148.9	154.0	161.9	20.3	94.8	0.5
T-E MASTERMAKER	127.2	124.8	160.5	23.9	90.6	1.2
P-A-G SX 39	142.6	145.7	160.0	22.7	88.5	0.0
PRINCETON SX 836	137.1	148.5	159.3	18.8	91.7	1.1
P-A-G SX 92			158.9	23.9	91.7	2.3
TRUJAN TX 113			158.4	21.5	94.3	0.0
P-A-G SX 98			157.8	22.2	87.5	2.4
DEKALB XL72A		140.2	157.4	23.1	91.7	0.0
S S HYBRIDS JX-86			156.9	20.2	89.6	3.5
TRUJAN TX 117			156.8	21.2	85.9	1.8
GUTWEIN 80		151.8	155.7	20.9	88.0	1.2
RICKARD R-600			155.4	20.7	89.6	6.0
DEKALB XL85A	138.9	145.0	155.2	23.0	85.4	0.6
SO.STATES S5750		135.6	155.2	20.4	93.8	1.1
B & B 9-2			155.0	19.6	94.8	0.5
NORTHROP-KING PX77			154.0	19.0	99.0	0.0
STEWART SX 71	140.0	138.2	153.7	20.1	86.5	1.1
HULTING X9880			152.9	22.4	93.2	1.6
FUNK'S G4864			152.6	22.2	91.7	0.0
GUTWEIN 88			152.4	20.5	93.8	0.0
ASGROW RX 100	126.2	138.6	152.1	21.4	85.9	0.0
STEWART SX 58			150.7	21.9	85.9	1.3
RICKARD R-606			149.8	20.6	92.2	1.6
FUNK'S G4648			148.9	23.2	91.1	1.8
VORIS SEEDS V2622			148.9	21.7	91.1	0.0
B & B 10-3			148.8	20.2	91.1	0.0
PIONEER BRAND 3571	127.0	133.5	148.3	16.9	90.6	0.0
P-A-G SX 520			135.5	18.0	20.7	5.1
FUNK'S G4646	136.4		134.5	14.2	22.4	90.1
MCNAIR X210			132.3	14.7	23.3	88.0
STULL'S SX720				146.7	21.5	92.7
STULL'S SX707				145.0	19.3	91.7
MUNY CHIEF 3X898				142.3	22.6	89.1
MUNY CHIEF 3X898				142.2	20.9	87.0
MOEWS S8022				142.2	20.7	87.5
PIONEER BRAND 3334A				140.6	21.8	89.6
MIGRO M-0711	140.5	145.0	139.7	21.7	93.2	2.2
MUNY CHIEF SX662		133.8	139.6	17.5	94.3	0.5
VORIS SEEDS V2502				139.4	19.3	91.1
DEKALB XL74		129.4	139.4	19.3	91.1	2.9
HULTING X877		131.5	139.1	22.5	87.0	2.8
T-E EXP. 6930			125.4	136.6	23.9	91.7
DEKALB XL64	119.6		116.1	136.5	20.6	92.7
SO.STATES S5698			123.7	136.4	20.3	94.8
FUNK'S G5757	126.0		132.1	135.5	22.5	89.1
MCNAIR X180				134.9	20.7	87.0
SUPER CROST S85				134.3	22.4	76.0
NORTHROP-KING PX670				133.6	20.2	93.8
NORTHROP-KING PX616	135.4		142.1	133.5	19.5	95.3
STULL'S 809A SP				132.9	21.7	96.4
KENTUCKY 105		93.7	123.7	132.5	22.3	92.2
TRUJAN TXS 124			125.4	20.3	91.1	0.0
THOMPSON T-120Y			122.8	120.6	21.7	85.9
THOMPSON SX10Y				120.3	21.5	79.2
<b>YELLOW AVERAGE</b>						
	134.0	138.8	151.6	21.2	90.9	1.5
<b>WHITE</b>						
ZIMMERMAN Z11			157.3	25.8	80.2	2.0
PIONEER BRAND 511A	131.4	144.1	149.1	25.1	90.6	1.4
P-A-G 644W	133.3	142.2	149.1	23.7	93.8	1.7
P-A-G SX 70W			145.9	148.4	23.9	87.0
KENTUCKY 5921W	103.6	133.3	142.8	23.3	89.6	1.2
STULL'S 850W SX	144.0	145.9	141.7	21.5	95.8	0.5
ZIMMERMAN Z10			140.2	24.6	77.6	0.7
PRINCETON 990-A			139.2	20.3	90.6	7.1
DEKALB XL390W		138.5	141.0	136.3	22.9	92.7
MOEWS 101N		138.5	140.4	131.1	24.3	93.8
T-E M-20-W			129.5	24.4	83.9	5.7
<b>WHITE AVERAGE</b>						
	130.2	141.8	142.3	23.6	88.7	2.8
<b>GRAND AVERAGE</b>						
	133.2	139.3	150.3	21.5	90.6	1.7

TABLE 7.—ANNUAL SUMMARY, NORMAL POPULATION, HARTFORD, KY.

HYBRID	3-YR	2-YR	1973 RESULTS			
	YIELD BU/AC	YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED
<b>YELLOW</b>						
MIGRO M-7072			160.5	18.3	92.7	4.6
MCNAIR X190			149.6	20.7	85.9	1.3
PIONEER BRAND 3368	142.2	128.8	148.5	18.6	82.8	5.7
PIONEER BRAND 3369A	157.1	136.9	147.2	18.5	92.7	6.0
ASGROW RX 100	135.7	138.9	146.6	20.3	88.5	5.8
FUNK'S G4628			145.9	20.8	91.1	0.6
BO-JAC X1-83		140.3	144.2	18.2	93.2	12.7
T-E MASTERMAKER	125.9	107.2	142.5	20.3	89.6	4.0
BO-JAC X1A			141.3	168.3	21.4	12.0
T-E EXP. 6935		133.8	141.0	20.0	88.5	12.0
S S HYBRIDS JX-87			140.4	21.0	92.2	16.7
PRINCETON SX 836	144.0	127.3	140.3	17.6	87.5	5.4
NORTHROP-KING PX77			139.4	20.2	94.3	0.0
P-A-G SX 520		137.8	139.3	18.9	92.7	0.0
MOEWS S8022			138.9	19.6	90.6	7.0
HULTING X877			136.9	18.3	90.6	9.1
DEKALB XL80		119.7	136.3	20.1	93.2	6.9
P-A-G SX 98		128.7	136.0	20.8	90.6	3.4
DEKALB XL72A			134.6	20.8	92.2	4.5
S S HYBRIDS JX-86			134.2	18.2	84.4	10.6
PRINCETON SX 850	137.0	119.4	133.8	19.2	83.9	3.1
DEKALB XL74		128.0	133.2	18.1	89.6	2.9
TRUJAN TXS 124			133.0	17.8	94.9	19.5
MUNY CHIEF SX662			132.4	20.2	92.7	3.4
MIGRO M-7701		117.2	132.0	20.1	95.3	17.0
T-E EXP. 6930		137.8	131.6	19.7	83.9	9.2
SUPER CROST S85		115.4	130.0	21.2	82.3	2.9
SO.STATES S5750		129.8	130.0	19.0	89.6	5.2
SUPER CROST 7772			128.8	19.4	96.9	9.8
FUNK'S G4648			128.1	18.9	89.6	4.1
MIGRO M-0711		129.0	126.7	20.4	87.5	1.8
DEKALB XL85A	129.0	112.9	126.2	22.1	93.8	22.3
TRUJAN TXS 113	128.3	119.1	125.5	18.5	89.6	5.7
TRUJAN TX 113			125.1	18.8	91.7	4.0
MCNAIR X180			124.9	17.1	94.3	12.9
SO.STATES S5698			124.8	18.8	93.8	6.1
STEWART SX 71		116.4	124.7	19.5	91.7	8.0
DEKALB XL64	148.9	127.3	124.7	18.6	91.7	6.8
STULL'S SX707	129.7	116.5	123.6	19.0	88.5	3.0
MUNY CHIEF 3X898			123.5	20.1	84.4	8.6
THOMPSON T-120Y		109.7	122.9	19.7	84.9	9.7
B & B 11-7			122.8	21.2	86.5	10.0
RICKARD R-606			122.6	19.0	91.1	1.7
FUNK'S G4646			122.2	20.1	90.1	5.9
STEWART SX 58		116.4	121.3	19.7	88.1	0.7
VORIS SEEDS V2622			121.2	20.4	95.3	11.2
TRUJAN TX 117			121.1	18.6	93.2	1.1
P-A-G SX 92			121.0	21.5	92.7	4.4
P-A-G SX 39	128.8	116.4	120.1	20.8	89.1	6.2
PIONEER BRAND 3571	125.1	123.2	119.8	15.3	90.1	1.1
SO.STATES S5775			119.4	20.2	88.0	5.2
B & B 9-2			118.9	17.2	95.3	4.4
GUTWEIN 86			118.7	17.9	89.6	4.7
GUTWEIN 80		105.6	118.5	21.6	89.6	22.2
PIONEER BRAND 3334A			118.0	17.8	85.4	11.5
ASGROW RX 115		100.4	117.5	20.0	88.5	8.6
NORTHROP-KING PX616	116.1	115.8	116.1	16.5	87.0	5.4
ZIMMERMAN Z24			115.3	17.4	91.1	18.0
HULTING X9880		95.6	115.2	22.4	89.1	4.5
STULL'S 809A SP			114.2	21.1	90.6	9.8
FUNK'S G4646			114.1	19.5	90.6	7.6
FUNK'S G4646	114.6	111.0	111.2	20.2	78.6	5.7
STULL'S SX720			111.1	20.0	92.2	3.4
FUNK'S G5757	122.9	105.2	111.0	22.5	84.4	14.6
B & B 10-3			110.3	20.6	83.3	3.8
NORTHROP-KING PX670		106.7	106.0	17.5	87.0	3.6
VORIS SEEDS V2502			103.8	17.8	91.1	1.7
THOMPSON SX10Y			103.3	18.5	75.0	0.7
RICKARD R-600			99.1	19.7	92.7	3.4
KENTUCKY 105	75.3	73.8	88.7	20.6	94.8	10.4
<b>YELLOW AVERAGE</b>						
	128.8	118.8	126.4	19.4	89.4	6.9
<b>WHITE</b>						
ZIMMERMAN Z11			139.5	23.0	71.9	0.0
PIONEER BRAND 511A	127.7	123.8	138.9	21.0	94.8	13.5
DEKALB XL390W			122.1	124.4	20.2	89.6
P-A-G 644W	120.0	108.9	123.6	21.2	93.2	2.8
P-A-G SX 70W			100.5	121.5	22.6	88.5
ZIMMERMAN Z10			120.6	21.4	88.0	10.1
T-E M-20-W			113.9	21.3	86.5	6.5
STULL'S 850W SX	113.6	104.4	111.3	20.2	89.6	35.5
PRINCETON 990-A			104.6	19.8	90.1	19.8
MOEWS 101N	108.3	97.6	101.3	22.3	91.7	25.5
KENTUCKY 5921W		99.2	97.7	101.3	19.4	83.3
<b>WHITE AVERAGE</b>						
	113.8	105.0	118.3	21.1	87.9	14.9
<b>GRAND AVERAGE</b>						
	125.2	116.4	125.3	19.7	89.2	8.0