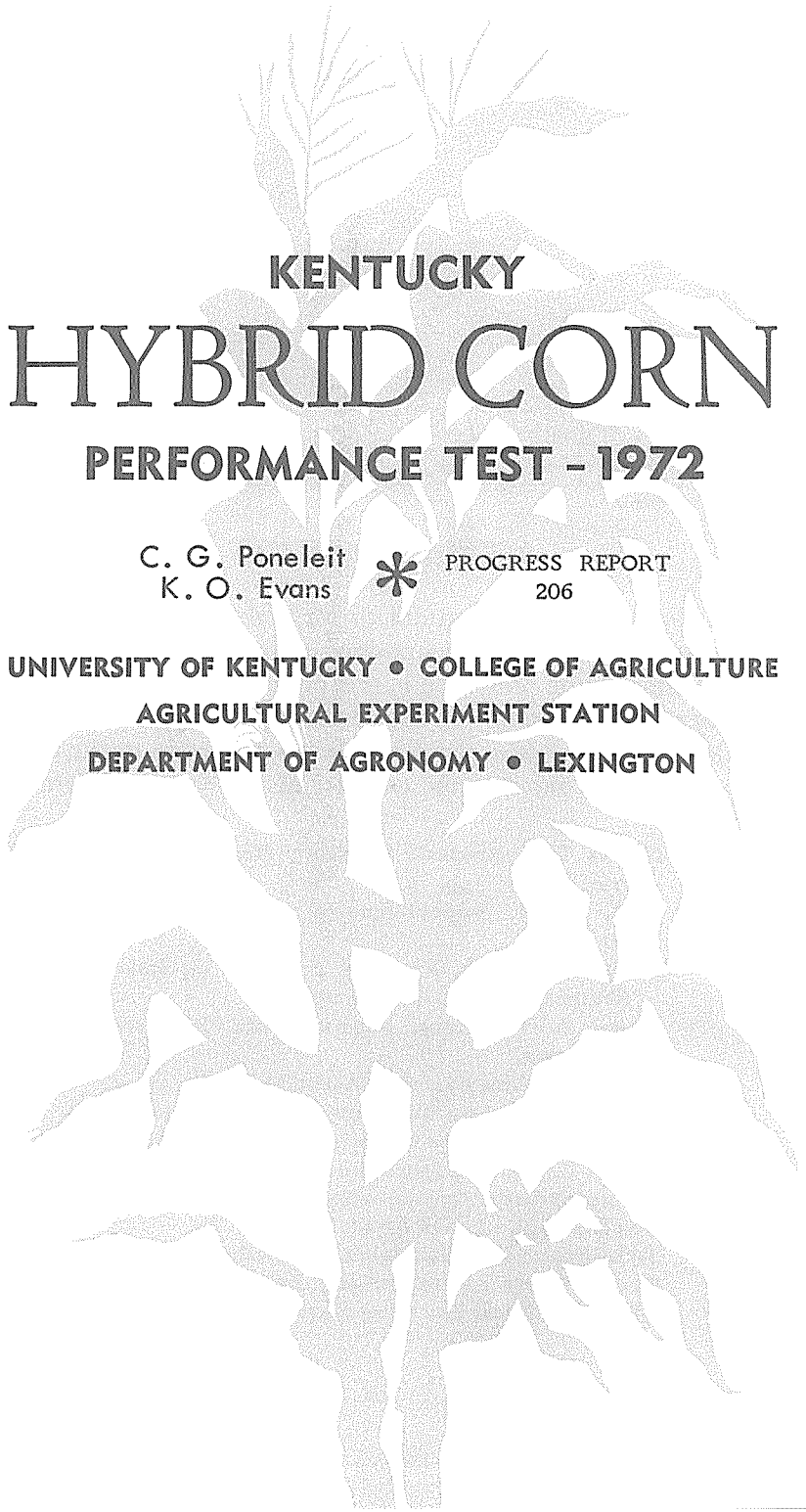


KENTUCKY
HYBRID CORN
PERFORMANCE TEST - 1972

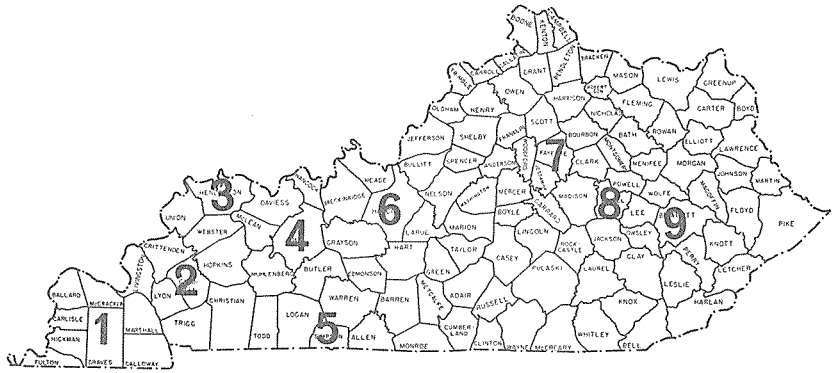
C. G. Poneleit
K. O. Evans

PROGRESS REPORT
206

UNIVERSITY OF KENTUCKY • COLLEGE OF AGRICULTURE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY • LEXINGTON

15M—2-73

TESTING LOCATIONS OF THE 1972 KENTUCKY HYBRID CORN PERFORMANCE TRIALS



ACKNOWLEDGMENTS

The authors are grateful to Mr. John Byers and Dr. Paul Cornelius, Department of Agronomy, for their assistance in summarizing the results presented in this progress report and to Dr. A. S. Williams, Department of Plant Pathology, for evaluation of the corn leaf diseases. Also acknowledgments are made to the following persons who aided in the conduct of this year's performance test:

Charles Tutt, Research Specialist, West Kentucky Substation, Princeton.
Paul Appel, Superintendent, West Kentucky Substation, Princeton.
Dr. James Herbek, Extension Specialist in Grain Crops, West Kentucky Substation, Princeton.
George A. Armstrong, Superintendent, Robinson Substation, Quicksand.
C. E. Wyatt, Area Extension Agent, Mayfield.
Stuart Brabant, Area Extension Agent, Henderson.
John Kavanaugh, Area Extension Agent, Hartford.
Clifton Taylor, Area Extension Agent, Franklin.
Dr. Morris Bitzer, Extension Specialist in Grain Crops, Lexington.
Don Kessler, Extension Agent, Franklin.
Jack Snyder, Extension Agent, Elizabethtown.
Clarence Bayes, Extension Agent, Irvine.
William Hendrick, Extension Agent, Henderson.

Table 22.—Three-year Summary, Corn Virus Test, Normal Population, 1969, 1971 and 1972.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
FUNK'S G4761	3.3	78.1	20.3	71.0	29.9
SO.STATES SS866	4.5	59.4	21.4	70.3	32.3
KENTUCKY 105	5.3	28.5	17.9	58.3	53.5
YELLOW AVERAGE	4.4	55.3	19.8	66.6	38.6

Table 21.—Two-year Summary, Corn Virus Test, Normal Population, 1971 and 1972.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
PIONEER BRAND 3179	1.3	120.1	21.3	73.7	46.6
FUNK'S G4761	2.3	76.9	20.7	71.1	41.9
PIONEER BRAND 3147	2.7	92.7	21.8	70.1	34.1
FUNK'S G4808	2.7	75.5	22.6	72.1	49.9
SO.STATES SS866	3.7	65.4	21.6	68.0	43.6
KENTUCKY 105	7.0	23.0	18.1	53.6	60.8
YELLOW AVERAGE	3.3	71.6	21.0	68.1	46.2
WHITE					
P-A-G 644W	1.3	88.5	22.0	74.0	49.8
STULL'S 560W SP	3.3	80.0	21.5	70.1	59.0
WHITE AVERAGE	2.3	84.2	21.8	72.0	54.4
GRAND AVERAGE	3.0	74.9	21.2	69.1	48.2

LIST OF TABLES

Table 20.—Corn Virus Test, Normal Population, Irvine, Ky.

HYBRID	1972 RESULTS VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
NORTHRUP-KING X37	1.0	129.6	19.8	89.6	22.0
PIONEER BRAND EXP. 05071	1.0	77.1	23.1	78.1	36.1
PIONEER BRAND 3179	1.3	120.1	21.9	88.5	39.6
P-A-G SX 17A	1.3	119.8	21.3	84.4	25.9
TROJAN X 54	1.3	110.9	21.7	85.4	32.9
TROJAN X 24	1.7	98.3	20.6	88.5	16.1
FUNK'S EXP. 24831	2.0	116.4	20.4	83.3	25.3
FUNK'S G4761	2.3	84.2	19.5	78.1	28.2
NORTHRUP-KING X36	2.3	127.0	23.2	93.8	30.1
P-A-G EXP. 22003	2.3	83.3	19.5	85.4	46.5
TROJAN MDM 111	2.3	87.8	19.6	78.1	30.7
DEKALB EXP. 1927	2.3	86.5	22.6	87.5	21.4
PIONEER BRAND 3147	2.7	88.0	21.6	59.4	7.5
FUNK'S G4808	2.7	87.3	21.7	78.1	33.1
T-E VR-20-Y	3.3	91.4	21.2	69.8	14.7
STULL'S 911 SP	3.3	101.0	21.4	91.7	43.1
SO.STATES SS866	3.7	89.8	21.5	75.0	27.0
PARK SEEDS 708L	3.7	100.7	23.1	75.0	34.6
TROJAN X 6712	3.7	76.1	21.5	85.4	45.3
HOLDENS 1022	5.3	70.2	22.8	80.2	75.0
DEKALB XL374	5.3	31.3	20.9	61.5	71.7
NORTHRUP-KING X35	5.7	50.2	21.8	80.2	74.0
HOLDENS 035A	5.7	73.5	21.1	76.0	52.1
MCNAIR X300	6.3	62.6	22.7	76.0	75.2
KENTUCKY 105	7.0	33.2	20.7	63.5	54.0
MCNAIR X210	7.0	39.4	23.5	75.0	72.6
DEKALB 833	7.3	29.1	22.1	68.8	80.0
PIONEER BRAND 3369A	8.0	29.2	20.0	67.7	82.7
YELLOW AVERAGE	3.6	81.9	21.4	78.7	42.8
WHITE					
P-A-G 644W	1.3	98.2	21.8	76.0	43.9
STULL'S 560W SP	3.3	102.7	21.5	86.5	40.3
T-E VR-20-W	3.7	95.3	23.6	81.3	46.9
KENTUCKY 5921W	7.0	49.0	20.4	82.3	36.8
WHITE AVERAGE	3.8	86.3	21.8	81.5	42.0
GRAND AVERAGE	3.7	82.5	21.5	79.1	42.7

Table 19.–Corn Leaf Diseases at Different Locations in Kentucky, 1972.

Hybrid		Hartford	Henderson	Princeton	Hybrid		Hartford	Henderson	Princeton
Asgrow	RX 100	1.7	2.3	2.7	Park Seeds	708L	1.0	1.3	2.3
	RX 115	1.0	0.7	1.0	Pioneer Brand	3147	0.05	1.3	0.7
Bo-Jac	X1-83	2.3	2.3	2.3		3334	0.5	1.0	1.7
Cargill	940	1.0	2.0	2.3		3368	2.0	1.3	2.0
	488	1.0	2.0	2.7		3369A	1.3	1.7	2.3
Dekalb	XL64	1.0	2.0	2.3		3571	0.5	2.3	2.7
	XL72A	1.0	2.7	3.3		511A	1.0	1.3	1.3
	XL74	1.0	2.0	2.0	Princeton	SX 850	2.3	1.7	2.7
	XL85A	1.0	1.3	1.7		SX 836	1.0	1.0	2.0
	XL81	0.05	1.3	2.0	So. States	SS698	2.3	3.3	3.3
	XL390W	0.5	1.0	1.0		SS875	1.3	2.3	2.3
Funk's	G5757	1.3	1.3	2.0		SS750	0.05	2.3	1.7
	G4761	1.7	2.3	2.0	Stewart	SX 71	1.3	2.7	3.7
	G4646	1.7	1.7	1.7		S-101W	1.7	2.0	1.7
	G4505	2.0	3.0	3.3	Stull's	809 SX	0.05	1.0	2.0
	G5708W	1.3	1.7	1.3		877 SX	0.05	2.0	2.7
Gutwein	80	0.5	0.7	1.7		807A SX	0.7	2.0	2.0
Hulting	X877	2.7	4.0	4.0		850W SX	1.3	0.7	1.3
McNair	X210	1.0	2.3	2.0		555W	2.0	0.5	1.3
	3838	0.05	1.0	1.0	Taylor-	Mastermaker	1.7	2.7	3.0
Migro	M-0711	1.0	2.3	2.7	Evans	E-20-YA	0.5	2.3	2.3
	M-7101	0.7	1.0	1.3		Exp. 6935	2.9	1.7	2.0
	M-7701	0.5	1.3	1.7		Exp. 6930	1.3	2.3	3.0
Moews	101N	1.5	1.0	1.0	Thompson	T-120Y	1.7	2.7	2.3
	303N	1.7	0.7	1.3	Trojan	TXS 111	2.3	4.0	3.0
Muncy Chief	SX662	1.7	2.3	2.3		TXS 119	0.5	2.7	2.7
Northrup-King	PX611	1.0	3.0	2.3		TXS 122	1.3	3.0	3.0
	PX616	0.7	3.3	2.7		TXS 117	1.7	3.3	2.0
	PX670	1.3	2.7	3.0	K.A.E.S.	Ky 105	4.0SCLB*	3.0SCLB*	3.0SCLB*
P.A.G.	SX 39	1.0	2.3	2.3		Ky 5921W	3.7SCLB*	3.0SCLB*	3.3SCLB*
	SX 83	0.7	2.7	2.7					
	SX 70W	2.0	0.5	1.0					
	SX 520	1.3	3.0	3.0					
	644W	1.7	0.5	0.7					

[1] A combination of Stewart's leaf blight, Brown Spot and Rust recorded on September 5 and September 6. An average of 3 replications at each location. Disease rating based on 0-5 scale, with 5 being most severe.

* SCLB = Southern Corn Leaf Blight.

Kentucky Hybrid Corn Performance Test 1972

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, hopefully, will aid farmers as they select hybrids for use in the following season.

Environmental conditions in 1972 were generally good for corn growth. The average corn yield for Kentucky was estimated in November by the U.S.D.A. statistical reporting service to be a record high of 85 bushels per acre. A wet April delayed planting somewhat, but most corn was seeded by the end of May. A dry June threatened the corn crop, but rains in July provided sufficient moisture to produce the record estimates. Frequent rainfall and poor drying conditions starting in mid-October hampered harvest of later maturing varieties and may cause a serious reduction in the total amount of grain harvested in Kentucky.

Southern corn leaf blight caused by race T of *Helminthosporium maydis* was present in 1972 and caused some damage to susceptible hybrids. Although ratings were not recorded at all locations, yields of the check hybrids, Ky 105 and Ky 5921W with T cytoplasm, were reduced below normal expectations. All other hybrids had 100% normal (N) cytoplasm and were not affected by the southern leaf blight organism.

PRESENTATION OF DATA

Complete 1972 data are presented for each location where a test was conducted (Tables 4-11). Two-year yield averages (1971 and 1972 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 1972 since these are better estimates of a hybrid's yield potential than data gathered at one location in

one year. The 1972 summary over all non-virus locations is presented in Table 12, and similar data from 1971 and 1969 are presented 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 employed do not allow comparisons such as comparing 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. They had 100% T cytoplasm and provide an estimate of the severity of the southern leaf blight infestation in 1972. Seed of each commercial hybrid (Table 2) was obtained from dealers in Kentucky whenever possible.

Those hybrids grown in the maize dwarf mosaic virus test and high population tests are indicated in column 2 of Table 2. The hybrid corn companies were asked to nominate only those hybrids known to have virus resistance, for inclusion in the virus test. Hybrids grown in the high population tests were also selected 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 and Table 3 shows pertinent agronomic information 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 Frankfort test site was specifically chosen for the presence of corn virus.

Table 18.—Two-year Summary, High Population, Princeton and Lexington, Ky., 1971 and 1972.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
PIONEER BRAND 3571	131.9	18.6	85.4	8.6
NORTHRUP-KING PX616	123.8	19.0	84.6	20.2
PIONEER BRAND 3518	129.9	19.2	84.1	5.8
PIONEER BRAND 3516	140.0	19.7	89.1	12.4
MIGRO M-46	126.6	19.9	76.0	15.8
NORTHRUP-KING PX611	123.6	20.1	85.6	20.0
TROJAN TXS 113	145.9	20.1	88.3	13.8
DEKALB XL66	128.8	20.2	85.5	16.1
FUNK'S G4646	143.9	21.2	85.9	12.4
MIGRO M-0711	135.0	22.3	81.8	15.2
YELLOW AVERAGE	133.2	20.1	84.6	13.9
WHITE				
MOEWS 303N	111.9	23.0	69.4	29.1
MOEWS 101N	144.8	25.0	85.9	29.5
WHITE AVERAGE	128.4	24.0	77.6	29.3
GRAND AVERAGE	132.3	20.7	83.4	16.5

Table 17.—Annual Summary, High Population, Princeton and Lexington, Ky.

HYBRID	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
FUNK'S G4505	130.5	17.5	90.6	17.6
B & B 9-2	127.5	17.6	89.3	22.7
MIGRO M-5045	141.4	17.9	84.4	22.4
PIONEER BRAND 3516	130.8	17.9	88.8	18.9
FUNK'S EXP. 25760	133.7	18.0	85.7	15.2
CARGILL 940	136.0	18.1	91.4	32.6
MIGRO M-7072	146.6	18.3	90.9	21.4
DEKALB XL44	128.1	18.3	86.5	10.7
TROJAN TXS 113	146.0	18.5	90.6	15.4
PIONEER BRAND 3518	138.4	18.5	85.7	9.1
NORTHRUP-KING PX611	114.5	18.5	82.0	28.5
NORTHRUP-KING PX616	124.8	18.6	84.6	25.7
NORTHRUP-KING PX670	127.2	18.6	87.8	14.2
HULTING X770	131.7	18.7	88.3	30.9
FUNK'S G4646	137.0	18.9	87.0	14.8
NORTHRUP-KING KT680	99.5	19.1	84.9	27.5
GUTWEIN 65	116.8	19.2	89.3	24.0
HULTING X8775	138.0	19.3	86.2	20.7
NORTHRUP-KING PX77	131.8	19.3	86.2	9.5
MIGRO M-46	123.3	19.4	85.4	27.1
MUNCY CHIEF SX662	128.2	19.5	92.2	17.1
PIONEER BRAND 3571	130.5	19.5	86.7	10.3
DEKALB XL66	128.6	19.7	89.1	26.3
DEKALB XL72A	143.8	20.1	83.6	22.3
B & B 11-7	128.0	20.2	86.5	26.5
BO-JAC X91	146.0	20.9	84.6	12.6
B & B 10-3	133.6	21.1	84.9	24.0
STEWART S-877	117.4	21.6	88.0	30.4
MIGRO M-0711	132.1	21.7	90.9	27.8
YELLOW AVERAGE	130.8	19.1	87.3	20.9
WHITE				
MIGRO M-7340	128.6	20.8	84.6	12.8
MOEWS 303N	119.7	22.1	91.9	42.7
MOEWS 101N	139.8	22.5	87.2	31.8
WHITE AVERAGE	129.4	21.8	87.9	29.1
GRAND AVERAGE	130.6	19.4	87.4	21.7

CULTURAL PRACTICES

The seedbed at each location except Elizabethtown was prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests. The test at Elizabethtown was planted in a fescue sod 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 treatments for each location.

EXPERIMENTAL DESIGN

Uncontrollable variability of soil types, fertility, and other factors was sampled by using three replications of an 8 x 8 balanced lattice. A separate randomization was used for each location. Yields presented in Tables 4 through 20 are adjusted for block and replication differences when shown applicable by statistical analyses.

PLANTING

All plots except those at Elizabethtown were planted with a conventional four-row corn planter modified for small plot work. The planter boxes were replaced by special planting heads to permit clean-out after planting each plot row. A conventional, no-till planter with cone seeders was used for planting the Elizabethtown test. Each plot consisted of three rows 38 inches apart. Population was varied by altering combinations of row length and number 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. The middle row of each three-row plot was 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 or missed ears were not gleaned from the plots. The number of plants remaining in each plot at harvest and the number of root and stalk 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 all areas where maize dwarf mosaic virus had previously been determined as the major disease. For this reason, the Irvine, Ky., test (Table 20) will be referred to as the "corn virus test" rather than the "maize dwarf mosaic virus test," with the understanding that resistance to both maize dwarf mosaic and the newly discovered virus is being evaluated.

CORN LEAF DISEASES

All hybrids at the Henderson, Hartford, and Princeton test locations were rated for corn leaf diseases. Southern Corn Leaf Blight *(Helminthosporium maydis),* Bacterial Wilt or Stewart's Disease *(Xanthomonas stewartii),* Rust *(Puccinia sorghi)* and Brown Spot *(Physoderma maydis)* were identified by Dr. A. S. Williams, of the Plant Pathology Department. A summary of these ratings is presented in Table 19.

Table 1.—Pedigrees of Experiment Station Hybrids Tested in 1972.

Hybrid	Color	Cross	Pedigree
Ky 105	Yellow	4X	(T8 x C121E) (38-11 x Oh 7B)
Ky 5921W	White	4X	(CI64 x 33-16) (Ky 201 x CI66)

Table 16.—Annual Summary, High Population, Lexington, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
GUTWEIN 65		136.9	18.1	95.3	36.3
MIGRO M-7072		156.9	18.5	96.9	31.9
B & B 9-2		121.9	18.6	91.1	31.6
FUNK'S EXP. 25760		142.6	19.0	87.5	23.7
NORTHRUP-KING KT680		121.4	19.0	85.4	39.4
FUNK'S G4646	*159.1*	145.9	19.2	87.0	20.4
NORTHRUP-KING PX670		142.7	19.2	97.9	13.8
BO-JAC X91		152.0	19.3	87.0	14.9
FUNK'S G4505		148.9	19.3	92.7	16.8
CARGILL 940		140.2	19.3	93.8	41.2
MUNCY CHIEF SX662		138.5	19.4	95.3	18.3
TROJAN TXS 113	*156.1*	154.2	19.4	93.2	20.1
B & B 11-7		130.2	19.5	89.1	23.9
MIGRO M-0711	*131.0*	138.2	19.6	92.7	26.6
MIGRO M-5045		141.7	19.9	84.9	25.0
NORTHRUP-KING PX77		139.8	20.1	92.7	9.7
DEKALB XL66	*148.2*	145.1	20.1	90.1	40.3
DEKALB XL72A		157.9	20.1	90.6	29.2
NORTHRUP-KING PX611	*136.3*	125.2	20.2	83.3	35.4
MIGRO M-46	*130.0*	120.8	20.2	89.1	39.7
PIONEER BRAND 3518	*145.4*	141.1	20.2	84.9	6.7
PIONEER BRAND 3516	*149.9*	137.2	20.2	92.7	26.7
DEKALB XL44		141.3	20.3	91.7	10.9
NORTHRUP-KING PX616	*130.9*	139.6	20.4	89.6	19.1
STEWART S-877		130.0	20.6	85.9	41.7
B & B 10-3		129.9	20.7	89.6	34.9
PIONEER BRAND 3571	*146.0*	140.4	20.8	93.8	14.4
HULTING X770		142.4	21.0	91.1	40.1
HULTING X8775		151.5	21.1	88.5	26.4
YELLOW AVERAGE	*143.3*	139.8	19.8	90.5	26.2
WHITE					
MOEWS 101N	*147.2*	138.1	21.5	94.3	42.1
MIGRO M-7340		135.0	21.9	88.5	18.0
MOEWS 303N	*101.3*	91.5	25.3	91.7	73.9
WHITE AVERAGE	*124.2*	121.5	22.9	91.5	44.7
GRAND AVERAGE	*133.9*	138.1	20.1	90.6	27.9

Table 15.—Annual Summary, High Population, Princeton, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
PIONEER BRAND 3516	*130.1*	124.4	15.6	84.9	11.1
FUNK'S G4505		112.1	15.7	88.5	18.4
MIGRO M-5045		141.2	15.9	83.9	19.9
DEKALB XL44		114.9	16.3	81.3	10.5
HULTING X770		120.9	16.5	85.4	21.8
B & B 9-2		133.1	16.7	87.5	13.8
CARGILL 940		131.9	16.8	89.1	24.0
NORTHRUP-KING PX616		109.9	16.8	79.7	32.2
PIONEER BRAND 3518	*114.3*	135.7	16.9	86.5	11.5
NORTHRUP-KING PX611	*110.8*	103.7	16.9	80.7	21.6
FUNK'S EXP. 25760		124.8	17.1	83.9	6.8
HULTING X8775		124.5	17.5	83.9	14.9
TROJAN TXS 113	*135.6*	137.7	17.5	88.0	10.6
NORTHRUP-KING PX670		111.6	18.0	77.6	14.6
MIGRO M-7072		136.4	18.1	84.9	11.0
PIONEER BRAND 3571	*117.9*	120.5	18.3	79.7	6.2
FUNK'S G4646	*128.7*	128.2	18.6	87.0	9.2
NORTHRUP-KING PX77		123.8	18.6	79.7	9.4
MIGRO M-46	*123.2*	125.9	18.7	81.8	14.4
NORTHRUP-KING KT680		77.6	19.2	84.4	15.6
DEKALB XL66	*109.4*	112.2	19.3	88.0	12.3
MUNCY CHIEF SX662		118.0	19.7	89.1	15.8
DEKALB XL72A		129.8	20.1	76.6	15.5
GUTWEIN 65		96.6	20.4	83.3	11.8
B & B 11-7		125.8	20.8	83.9	29.0
B & B 10-3		137.2	21.6	80.2	13.0
BO-JAC X91		140.0	22.5	82.3	10.3
STEWART S-877		104.9	22.6	90.1	19.0
MIGRO M-0711	*139.0*	126.0	23.8	89.1	29.0
YELLOW AVERAGE	*123.2*	121.7	18.5	84.2	15.6
WHITE					
MOEWS 303N	*122.6*	147.8	19.0	92.2	11.5
MIGRO M-7340		122.2	19.7	80.7	7.6
MOEWS 101N	*142.4*	141.5	23.5	80.2	21.4
WHITE AVERAGE	*132.5*	137.2	20.7	84.4	13.5
GRAND AVERAGE	*127.8*	123.1	18.7	84.2	15.4

Table 2.—Hybrids Tested in 1972.

Hybrid		Test*	Color	Cross**	Source of Hybrid
Asgrow	RX 100	A	Yellow	2X	Asgrow Seed Co.
	RX 115	A	"	2X	Des Moines, Ia. 50310
B & B	9-2	C	Yellow	2X	Broadbent Hybrids
	10-3	C	"	3X	Route # 1
	11-7	C	"	2X	Cadiz, Ky. 42211
Bo-Jac	X1-83	A	Yellow	2X	Bo-Jac Hybrid Corn Co.
	X -91	C	"	2X	Mt. Pulaski, Ill. 62548
Cargill	488	A	Yellow	3X	Cargill, Inc.
	940	A,C	"	2X	1433 Cargill Bldg. Minneapolis, Minn. 55402
Dekalb	XL64	A	Yellow	2X	Dekalb Ag. Research Inc.
	XL72A	A	"	2X	Dekalb, Ill. 60015
	XL74	A,C	"	2X	
	XL85A	A	"	2X	
	XL81	A	"	2X	
	XL390W	A	White	3X	
	XL44	C	Yellow	2X	
	XL66	C	"	2X	
	XL374	B	"	3X	
	833	B	"	4X	
	Exp. 1927	B	"	4X	
Funk's	G5757	A	Yellow	4X	Funk Bros. Seed Co.
	G4761	A,B	"	3X	1300 W. Washington St.
	G4646	A,C	"	2X(Mod.)	Bloomington, Ill. 61701
	G4505	A,C	"	2X(Mod.)	
	G5708W	A	White	4X	
	Exp. 25760	C	Yellow	3X(Mod.)	
	G4808	B	"	2X	
	Exp. 24831	B	"	3X	
Gutwein	80	A	Yellow	2X	Gutwein & Sons, Inc.
	65	C	"	2X	Francesville, Ind. 47946
Holdens	1022	B	Yellow	2X(Mod.)	Holdens Foundation Seeds
	035A	B	"	2X	Williamsburg, Ia. 52361
Hulting	X877	A	Yellow	2X	Hulting & Son, Inc.
	X770	C	"	2X	Geneseo, Ill. 61254
	X8775	C	"	3X	
McNair	X210	A,B	Yellow	2X	McNair Seed Co.
	3838	A	"	Sp.	P.O. Box 706
	X300	B	"	2X	Laurinburg, N.C. 28352

(continued)

Table 2 (continued)

Hybrid		Test	Color	Cross**	Source of Hybrid
Migro	M-0711	A,C	Yellow	2X	Migro Hybrids
	M-7101	A	"	2X	Box 7
	M-7701	A	"	2X	Mitchell, Ind. 47446
	M-7072	C	"	2X	
	M-5045	C	"	4X	
	M-7340	C	White	4X	
	M-46	C	Yellow	2X	
Moews	101N[1/]	A,C	White	2X	The Moews Companies
	303N[1/]	A,C	"	3X	Granville, Ill. 61326
Muncy Chief	SX662	A,C	Yellow	2X	Muncy Chief Hybrids Muncy, Pa. 17756
Northrup-King	PX611	A,C	Yellow	3X	Northrup, King & Co.
	PX616	A,C	"	3X	1500 Jackson St., N.E.
	PX670	A,C	"	3X	Minneapolis, Minn. 55402
	PX77	C	"	2X	
	KT680	C	"	4X	
	X35	B	"	3X	
	X36	B	"	3X	
	X37	B	"	3X	
P.A.G.	SX 39	A	Yellow	2X	P.A.G. Seeds
	SX 83	A	"	2X	Box 2813
	SX 70W	A	White	2X	Northstar Station,
	SX 520	A	Yellow	2X	Minneapolis, Minn. 55402
	644W	A,B	White	3X	
	SX 17A	B	Yellow	2X	
	Exp. 22003	B	"	2X	
Park Seeds	708L	A,B	Yellow	3X	Park Seed Farms Urbana, Ohio 43078
Pioneer Brand	3147	A,B	Yellow	2X (Mod.)	Pioneer Hi-Bred, Inc.
	3334	A	"	2X	P.O. Box 278
	3368	A	"	2X (Mod.)	Union City, Tenn. 38261
	3369A	A,B	"	2X	
	511A	A	White	4X	
	3571	A,C	Yellow	2X (Mod.)	
	3516	C	"	2X	
	3518	C	"	2X (Mod.)	
	3179	B	"	2X (Mod.)	
	Exp. 05071	B	"	3X (Mod.)	
Princeton	SX 850	A	Yellow	2X	Princeton Farms
	SX 836	A	"	2X	Princeton, Ind. 47670

(continued)

Table 14.—Three-year Summary, Normal Population, All Non-virus Locations, 1969, 1971 and 1972.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
KENTUCKY 105	91.9	18.4	79.7	24.6
PIONEER BRAND 3369A	157.4	18.8	89.0	7.2
TROJAN TXS 122	132.7	19.4	86.6	8.2
STULL'S 807A SX	132.8	19.5	85.3	9.6
T-E MASTERMAKER	126.0	20.3	84.0	5.8
FUNK'S G5757	136.6	20.9	83.5	9.7
FUNK'S G4761	122.3	21.6	82.7	6.4
YELLOW AVERAGE	127.6	19.8	84.3	10.6
WHITE				
KENTUCKY 5921W	109.6	19.2	83.5	20.7
PIONEER BRAND 511A	134.2	22.1	87.1	17.1
STULL'S 850W SX	138.4	22.5	86.5	15.1
WHITE AVERAGE	126.3	21.1	85.6	17.8
GRAND AVERAGE	127.2	20.2	84.7	12.8

Table 13.—Two-year Summary, Normal Population, All Non-Virus Locations, 1971 and 1972.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
PIONEER BRAND 3571	126.3	18.4	84.4	4.5
KENTUCKY 105	81.3	19.1	74.1	29.7
NORTHRUP-KING PX611	120.3	19.3	85.0	15.9
P-A-G SX 83	141.0	19.3	85.4	11.4
NORTHRUP-KING PX616	140.1	19.7	90.7	13.8
PIONEER BRAND 3334	138.9	19.8	80.1	8.2
PRINCETON SX 850	150.1	19.9	89.7	10.5
PIONEER BRAND 3369A	160.3	19.9	87.5	6.8
DEKALB XL64	120.3	20.0	80.8	10.6
STULL'S 807A SX	137.4	20.5	85.9	10.8
DEKALB XL81	132.1	20.5	83.1	8.8
STEWART SX 71	149.7	20.5	85.8	10.5
PIONEER BRAND 3368	151.3	20.6	88.2	6.3
PRINCETON SX 836	142.0	20.6	84.0	9.9
TROJAN TXS 122	136.3	20.8	83.0	9.1
FUNK'S G4646	133.1	20.8	85.0	10.1
DEKALB XL85A	142.7	21.5	82.6	14.3
P-A-G SX 39	144.7	21.5	83.4	9.6
TROJAN TXS 119	129.6	21.5	81.3	10.5
T-E MASTERMAKER	113.0	21.8	78.7	6.0
MIGRO M-0711	141.5	21.9	84.2	7.1
ASGROW RX 100	125.1	21.9	80.1	7.4
STULL'S 809 SX	141.1	22.0	84.3	8.5
FUNK'S G5757	135.0	22.4	80.8	11.3
MCNAIR 3838	143.3	22.4	88.6	11.9
STULL'S 877 SX	134.5	22.6	85.2	11.3
FUNK'S G4761	119.5	23.3	78.0	7.4
YELLOW AVERAGE	133.8	20.8	83.5	10.6
WHITE				
KENTUCKY 5921W	103.8	19.9	81.7	25.1
STULL'S 555W	133.0	22.8	85.2	18.7
PIONEER BRAND 511A	136.5	23.2	85.8	19.1
MOEWS 303N	105.6	23.2	69.0	18.5
MOEWS 101N	150.2	23.7	86.9	18.6
P-A-G 644W	137.1	23.7	83.8	14.3
STULL'S 850W SX	144.6	24.2	85.5	16.4
WHITE AVERAGE	129.1	22.8	82.5	18.9
GRAND AVERAGE	132.8	21.3	83.3	12.4

Table 2 (continued)

Hybrid		Test*	Color	Cross**	Source of Hybrid
Southern States	SS698	A	Yellow	Sp.	Southern States Coop, Inc.
	SS875	A	"	4X	2600 Durham St.
	SS750	A	"	Sp.	Richmond, Va. 23220
	SS866				
Stewart	SX 71	A	Yellow	2X	Stewart Hybrids, Inc.
	S-101W	A	White	3X	Route 1
	S-877	C	Yellow	3X	Princeville, Ill. 61559
Stull's	809-SX	A	Yellow	2X	Stull Bros. Inc.
	877-SX	A	"	2X	P.O. Box 7
	807A-SX	A	"	2X	Sebree, Ky.42455
	850W-SX	A	White	2X	
	555W	A	"	4X	
	911 SP	B	Yellow	3X	
	560W SP	B	White	3X	
Taylor-Evans	Mastermaker	A	Yellow	2X	Taylor-Evans Seed Co.
	E-20-YA	A	"	4X	P.O. Box 480
	Exp. 6935	A	"	2X	Tulia, Texas 79088
	Exp. 6930	A	"	4X	
	VR-20-Y	B	"	4X	
	VR-20-Y	B	White	4X	
Thompson	T-120Y	A	Yellow	4X	Thompson Hybrids Hillsboro, Ky. 41049
Trojan	TXS 111	A	Yellow	2X	Trojan Seed Co.
	TXS 119	A	"	2X	Box 367
	TXS 122	A	"	2X	Windfall, Ind. 46076
	TXS 117	A	"	2X	
	TXS 113	C	"	2X	
	MDM 111	B	"	2X	
	X54	B	"	2X	
	X6712	B	"	2X	
	X24	B	"	2X	
K.A.E.S.	Ky 105 2/	A,B	Yellow	4X	Ky. Agri. Exp. Station
	Ky 5921W 2/	A,B	White	4X	Lexington, Ky. 40506

* Test A - Performance Test, B - Maize Dwarf Mosaic Virus Test, C-High Population Test

** 2X = Single Cross, 3X = Three-way Cross, 4X = Double Cross, MX or SP = Multiple or Special Cross.

1/ Formerly Schenk Hybrids, 2/ Tcms Entries, all others "Normal". NOTE: The name Pioneer, Dekalb, Funk, P.A.G. & etc. refer to the company and the number is the hybrid designation.

Table 3.—Agronomic Information Pertaining to 1972 Test Locations.

Location and Cooperator	Soil Type	Fertilizer Applied	Herbicide Treatment	Planting Date	Harvest Date	Comments
(1) Lowes, Ky. James Samples	Collins Silt loam	N-110 lbs/A P- 57 lbs/A K- 77 lbs/A	AAtrex and Princep Banded	May 4	Oct. 10	
(2) Princeton, Ky. Western Ky. Substation	Huntington & Lindside Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	AAtrex and Sutan Preplant	May 12 " 18	Oct. 11 " 16 " 17	
(3) Henderson, Ky. James McConathy	Wakeland Silt Loam	N-200 lbs/A P- 75 lbs/A K-100 lbs/A	AAtrex and Sutan Preplant	May 11	Oct. 12 " 13	
(4) Hartford, Ky. Walter & Earl Campbell	Stendal Silt Loam	N-200 lbs/A P- None K- None	AAtrex and Princep Broadcast	June 8	Oct. 24 " 25	
(5) Franklin, Ky. Robert Wade	Pembroke Silt Loam	N-164 lbs/A P- 44 lbs/A K- 83 lbs/A	AAtrex Broadcast	May 3	Oct. 3 " 6	
(6) Elizabethtown, Ky. George and Clarence Wilmoth	Crider Silt Loam	N-200 lbs/A P-100 lbs/A K-100 lbs/A	AAtrex and Paraquat and Surfactant	May 5	Oct. 2 " 3	No-till Diazinon Applied
(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 22 " 23	Oct. 26 thru Nov. 6	
(8) Irvine, Ky. A.C. Arvin	Elk Silt Loam	N- 75 lbs/A P- 33 lbs/A K- 62 lbs/A	2,4-D Post-emergence	May 25	Jan. 10	Corn Viruses
(9) Quicksand, Ky. Robinson Substation	Philo Silt Loam	N-160 lbs/A P- 22 lbs/A K- 42 lbs/A	AAtrex Broadcast	May 24	Nov. 16	

Table 12.—Annual Summary, Normal Population, All Non-virus Locations, 1972.

HYBRID	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	HYBRID	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					YELLOW				
TROJAN TXS 111	126.8	18.2	81.5	8.8	T-E E-20-YA	103.0	20.6	70.4	17.5
P-A-G SX 83	136.1	18.7	82.4	20.7	P-A-G SX 39	136.6	20.6	78.4	13.6
FUNK'S G4505	121.9	18.7	83.3	16.3	GUTWEIN 80	125.1	20.6	79.7	15.4
NORTHRUP-KING PX670	124.4	18.7	85.9	11.1	DEKALB XL85A	133.7	20.6	79.2	15.9
PIONEER BRAND 3571	129.0	18.8	85.8	5.9	TROJAN TXS 119	124.7	20.6	79.9	19.4
CARGILL 940	131.4	18.9	84.9	14.0	KENTUCKY 105	99.0	20.7	78.4	31.7
DEKALB XL64	108.1	19.0	76.7	17.3	MCNAIR X210	123.5	20.7	80.3	16.2
NORTHRUP-KING PX616	137.1	19.2	88.2	17.5	STULL'S 809 SX	139.2	20.9	83.9	11.2
NORTHRUP-KING PX611	109.5	19.3	81.3	15.7	T-E EXP. 6930	112.2	20.9	77.7	25.2
BO-JAC X1-83	151.6	19.3	83.3	11.1	ASGROW RX 100	141.7	20.9	84.9	12.1
PIONEER BRAND 3369A	155.1	19.4	87.8	13.6	T-E MASTERMAKER	83.5	21.1	75.9	7.9
FUNK'S G4646	122.4	19.4	79.3	10.1	STULL'S 877 SX	129.8	21.2	86.3	15.8
P-A-G SX 520	137.4	19.5	84.1	11.7	FUNK'S G4761	115.9	21.2	82.4	13.7
PRINCETON SX 836	132.8	19.5	80.2	14.8	MIGRO M-0711	133.8	21.2	81.4	15.8
DEKALB XL74	133.9	19.5	81.9	16.1	MCNAIR 3838	132.6	21.3	84.1	16.3
PRINCETON SX 850	140.8	19.5	88.3	16.1	FUNK'S G5757	121.5	21.4	74.0	13.5
TROJAN TXS 117	121.6	19.5	80.1	14.9	PIONEER BRAND 3147	142.9	21.8	78.5	18.3
PIONEER BRAND 3334	135.3	19.5	78.1	13.2					
SO.STATES SS698	119.0	19.6	84.5	15.4	YELLOW AVERAGE	128.8	20.0	81.9	15.6
MIGRO M-7701	146.9	19.6	88.4	20.0					
PARK SEEDS 708L	124.8	19.7	82.2	32.5	WHITE				
THOMPSON T-120Y	125.5	19.7	79.7	18.8	KENTUCKY 5921W	114.2	20.0	81.5	35.1
SO.STATES SS750	138.2	19.7	82.6	10.2	P-A-G 644W	130.8	21.1	82.6	24.0
PIONEER BRAND 3368	143.1	19.8	85.7	13.0	DEKALB XL390W	136.5	21.1	82.9	24.6
T-E EXP. 6935	152.1	19.8	81.9	9.8	STEWART S-101W	110.5	21.2	87.1	22.5
TROJAN TXS 122	127.4	19.9	81.8	12.6	MOEWS 303N	127.7	21.3	85.8	31.5
CARGILL 488	121.3	19.9	79.8	12.7	PIONEER BRAND 511A	127.2	21.7	84.8	29.4
SO.STATES SS875	133.6	19.9	83.2	12.5	P-A-G SX 70W	139.9	21.8	83.9	22.9
MIGRO M-7101	133.1	20.0	81.9	17.4	STULL'S 555W	122.0	21.8	82.6	25.8
ASGROW RX 115	133.1	20.0	85.4	25.4	MOEWS 101N	140.9	21.9	83.5	24.8
MUNCY CHIEF SX662	123.5	20.0	87.0	19.0	STULL'S 850W SX	139.1	22.5	85.0	24.1
STEWART SX 71	131.1	20.0	82.8	18.1	FUNK'S G5708W	109.1	22.7	76.3	19.8
HULTING X877	128.1	20.1	84.8	23.4					
STULL'S 807A SX	130.5	20.2	83.1	17.2	WHITE AVERAGE	127.1	21.5	83.3	25.9
DEKALB XL81	127.5	20.3	77.2	8.2					
DEKALB XL72A	131.9	20.5	81.8	13.4	GRAND AVERAGE	128.5	20.3	82.2	17.4

Table 11.—Annual Summary, Normal Population, Quicksand, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
P-A-G SX 83	119.2	149.7	21.9	90.6	27.8
STULL'S 807A SX	95.7	126.2	22.0	83.3	16.1
NORTHRUP-KING PX616		156.9	22.0	93.8	22.0
DEKALB XL72A		111.2	22.0	84.4	24.7
CARGILL 940		121.8	22.0	89.6	18.5
TROJAN TXS 117		123.3	22.3	78.1	22.8
T-E EXP. 6930		92.7	22.3	77.1	36.4
PIONEER BRAND 3369A	125.9	160.7	22.4	91.7	14.9
TROJAN TXS 119	93.3	111.0	22.4	81.3	30.8
PIONEER BRAND 3571	101.3	141.9	22.4	92.7	6.6
STEWART SX 71	120.0	110.9	22.5	81.3	31.6
NORTHRUP-KING PX670		110.0	22.5	84.4	26.1
DEKALB XL74		129.2	22.6	94.8	35.8
T-E EXP. 6935		160.4	22.6	87.5	15.2
SO.STATES SS698		115.8	22.6	86.5	35.5
DEKALB XL81	94.7	111.0	22.7	81.3	17.2
PIONEER BRAND 3368	122.8	161.8	22.7	92.7	9.3
PARK SEEDS 708L		110.4	22.7	82.3	49.8
HULTING X877		128.1	22.7	87.5	26.2
FUNK'S G4505		126.1	22.8	88.5	14.1
THOMPSON T-120Y		144.5	22.8	84.4	11.7
GUTWEIN 80		89.1	23.0	80.2	40.0
BO-JAC X1-83		155.3	23.0	82.3	17.8
T-E MASTERMAKER	66.7	69.5	23.0	78.1	20.0
NORTHRUP-KING PX611	85.7	100.0	23.1	84.4	42.1
MIGRO M-0711	104.4	125.3	23.1	84.4	17.7
CARGILL 488		112.2	23.2	78.1	18.5
SO.STATES SS875		142.1	23.2	88.5	15.3
PIONEER BRAND 3334	101.0	134.4	23.2	94.8	19.7
ASGROW RX 115		98.9	23.3	83.3	53.0
T-E E-20-YA		92.5	23.3	69.8	41.9
FUNK'S G5757	109.9	117.1	23.3	78.1	21.3
STULL'S 809 SX	97.1	134.9	23.4	88.5	16.8
MIGRO M-7701		126.8	23.4	88.5	23.5
PRINCETON SX 850	126.6	146.6	23.5	92.7	16.4
KENTUCKY 105	63.2	79.4	23.5	75.0	45.8
MUNCY CHIEF SX662		137.0	23.5	91.7	10.2
DEKALB XL85A	110.7	139.8	23.7	84.4	12.6
MCNAIR X210		132.7	23.7	79.2	27.8
TROJAN TXS 111		129.4	23.7	85.4	29.1
DEKALB XL64	64.9	80.0	23.8	81.3	15.1
P-A-G SX 39	117.7	147.6	23.8	82.3	13.9
STULL'S 877 SX	113.2	133.0	23.8	88.5	15.3
PRINCETON SX 836	101.4	112.3	23.9	79.2	22.9
FUNK'S G4646	102.1	95.5	23.9	75.0	29.2
SO.STATES SS750		136.1	24.0	89.6	10.6
P-A-G SX 520		130.3	24.1	85.4	15.8
PIONEER BRAND 3147		128.0	24.2	80.2	29.9
MCNAIR 3838	123.1	124.1	24.2	84.4	36.0
MIGRO M-7101		136.9	24.2	82.3	20.1
ASGROW RX 100	98.6	137.7	24.2	89.6	28.9
TROJAN TXS 122	94.6	122.9	24.3	83.3	21.2
FUNK'S G4761	100.8	125.9	24.5	79.2	29.1
YELLOW AVERAGE	102.1	124.1	23.1	84.6	24.0
WHITE					
P-A-G 644W	107.7	114.0	22.6	86.5	55.1
KENTUCKY 5921W	77.0	83.7	22.8	85.4	31.3
P-A-G SX 70W		113.6	24.0	83.3	22.5
STEWART S-101W		104.2	24.5	87.5	26.3
MOEWS 101N	122.2	133.7	24.7	81.3	36.0
DEKALB XL390W		125.1	25.4	83.3	25.8
STULL'S 850W SX	119.3	142.3	25.5	94.8	39.9
PIONEER BRAND 511A	91.5	99.6	26.1	88.5	49.1
FUNK'S G5708W		94.5	26.2	78.1	33.6
STULL'S 555W	108.3	116.2	26.6	79.2	32.4
MOEWS 303N	69.3	85.9	26.7	86.5	80.5
WHITE AVERAGE	89.3	110.3	25.0	84.9	39.3
GRAND AVERAGE	95.7	121.7	23.5	84.6	26.6

Table 4.—Annual Summary, Normal Population, Lowes, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
TROJAN TXS 111		130.1	15.5	67.7	0.0
PIONEER BRAND 3571	124.6	117.9	15.8	66.7	0.0
NORTHRUP-KING PX616		149.7	16.1	79.2	1.2
CARGILL 940		126.7	16.1	66.7	3.8
NORTHRUP-KING PX611	139.0	111.8	16.2	70.8	0.0
DEKALB XL64	105.3	67.3	16.5	54.2	18.2
NORTHRUP-KING PX670		118.7	16.5	69.8	4.5
PIONEER BRAND 3334	152.6	142.5	16.6	67.7	5.2
THOMPSON T-120Y		112.0	16.6	60.4	0.0
DEKALB XL74		124.8	16.7	65.6	2.8
SO.STATES SS875		127.5	16.8	67.7	2.9
CARGILL 488		113.6	16.8	63.5	4.9
SO.STATES SS750		109.9	16.9	65.6	5.1
BO-JAC X1-83		141.0	16.9	67.7	3.3
GUTWEIN 80		139.4	16.9	76.0	1.4
MIGRO M-7701		147.3	17.0	81.3	2.8
FUNK'S G4646	141.8	115.8	17.0	61.5	3.7
FUNK'S G4505		118.4	17.2	67.7	2.3
PARK SEEDS 708L		121.8	17.3	70.8	11.0
TROJAN TXS 122	123.6	76.4	17.4	46.9	6.7
PIONEER BRAND 3369A	177.1	158.9	17.4	78.1	0.0
DEKALB XL81	133.5	121.9	17.4	61.5	0.0
PRINCETON SX 836	159.2	144.0	17.4	68.8	4.6
TROJAN TXS 117		107.2	17.4	55.2	6.5
P-A-G SX 83	162.6	147.2	17.5	69.8	2.9
MIGRO M-7101		125.1	17.6	75.0	8.8
DEKALB XL85A	160.5	132.1	17.6	66.7	2.8
T-E EXP. 6935		129.5	17.8	60.4	3.7
ASGROW RX 115		153.8	17.8	78.1	2.8
STULL'S 807A SX	151.7	123.0	17.9	66.7	0.0
KENTUCKY 105	98.4	99.8	17.9	66.7	16.2
P-A-G SX 520		132.0	17.9	69.8	1.5
T-E E-20-YA		99.1	18.0	62.5	8.9
PRINCETON SX 850	163.1	143.4	18.0	82.3	2.2
T-E EXP. 6930		104.7	18.1	59.4	9.7
T-E MASTERMAKER	117.1	58.4	18.1	46.9	0.0
MUNCY CHIEF SX662		120.0	18.1	76.0	0.0
MIGRO M-0711	149.5	124.8	18.2	70.8	5.7
P-A-G SX 39	163.1	140.2	18.3	74.0	0.0
MCNAIR X210		145.4	18.3	75.0	0.0
STULL'S 877 SX	145.0	131.7	18.4	70.8	0.0
ASGROW RX 100	134.6	152.0	18.5	78.1	1.2
FUNK'S G4761	137.9	117.3	18.5	75.0	2.8
STEWART SX 71	140.3	114.1	18.5	76.0	0.0
PIONEER BRAND 3368	175.8	161.4	18.6	76.0	0.0
HULTING X877		112.7	18.6	70.8	12.2
TROJAN TXS 119	140.5	109.9	18.7	59.4	4.5
MCNAIR 3838	157.2	134.1	18.8	74.0	1.7
STULL'S 809 SX	157.5	146.3	18.9	81.3	0.0
DEKALB XL72A		143.1	19.3	79.2	2.8
FUNK'S G5757	132.9	95.3	19.9	54.2	6.1
PIONEER BRAND 3147		149.7	20.7	64.6	1.4
SO.STATES SS698		89.7	20.9	57.3	4.2
YELLOW AVERAGE	144.0	124.2	17.7	68.3	3.6
WHITE					
KENTUCKY 5921W	134.3	132.8	17.1	65.6	3.3
MOEWS 303N	118.7	153.2	17.2	78.1	4.3
STULL'S 850W SX	163.6	152.0	17.8	64.6	3.0
STULL'S 555W	145.5	136.9	18.2	78.1	2.2
P-A-G 644W	151.2	152.9	18.3	71.9	0.0
STEWART S-101W		100.9	18.7	68.8	7.6
MOEWS 101N	178.9	160.8	18.7	76.0	2.2
P-A-G SX 70W		163.2	19.2	72.9	0.0
PIONEER BRAND 511A	168.9	145.0	19.3	81.3	6.1
DEKALB XL390W		142.6	19.7	68.8	1.2
FUNK'S G5708W		126.9	20.7	63.5	3.0
WHITE AVERAGE	151.6	142.5	18.6	71.8	3.0
GRAND AVERAGE	147.8	127.3	17.9	68.9	3.5

Table 5.—Annual Summary, Normal Population, Princeton, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
TROJAN TXS 111		111.8	15.2	90.6	7.9
PIONEER BRAND 3571	*119.9*	115.7	15.3	96.9	12.8
P-A-G SX 83	*139.6*	110.8	16.0	84.4	49.8
DEKALB XL64	*121.9*	123.8	16.1	90.6	8.9
NORTHRUP-KING PX670		107.7	16.1	85.4	16.0
SO.STATES SS698		115.7	16.3	83.3	17.1
CARGILL 940		124.9	16.4	83.3	16.4
DEKALB XL74		146.4	16.5	87.5	8.3
PRINCETON SX 836	*126.4*	120.4	16.6	87.5	10.6
PIONEER BRAND 3368	*147.9*	142.0	16.6	92.7	12.5
NORTHRUP-KING PX611	*119.1*	101.3	16.9	86.5	12.9
PIONEER BRAND 3369A	*150.6*	141.4	16.9	86.5	10.0
BO-JAC X1-83		146.7	17.0	89.6	3.4
FUNK'S G4505		101.0	17.1	87.5	21.2
CARGILL 488		101.7	17.2	76.0	20.3
SO.STATES SS750		141.3	17.2	83.3	8.2
TROJAN TXS 117		110.0	17.3	83.3	20.9
THOMPSON T-120Y		96.6	17.4	71.9	8.7
NORTHRUP-KING PX616		124.6	17.4	90.6	16.3
HULTING X877		129.3	17.4	87.5	7.3
GUTWEIN 80		148.5	17.4	83.3	11.0
PRINCETON SX 850	*145.1*	129.3	17.5	87.5	17.8
FUNK'S G4761	*118.1*	102.0	17.5	83.3	15.1
STEWART SX 71	*140.7*	122.5	17.5	87.5	14.3
ASGROW RX 115		146.2	17.7	88.5	7.8
FUNK'S G4646	*134.6*	122.2	17.7	84.4	12.1
DEKALB XL85A	*150.8*	150.4	17.7	90.6	14.9
STULL'S 807A SX	*144.2*	131.8	17.9	87.5	10.4
T-E EXP. 6930		80.0	17.9	60.4	30.2
PARK SEEDS 708L		135.2	18.1	80.2	18.7
MUNCY CHIEF SX662		102.8	18.2	84.4	16.5
P-A-G SX 39	*144.1*	139.0	18.3	83.3	12.5
FUNK'S G5757	*132.7*	120.1	18.4	77.1	13.4
P-A-G SX 520		125.9	18.4	84.4	12.2
TROJAN TXS 122	*146.1*	133.5	18.4	85.4	7.0
MIGRO M-7701		136.5	18.5	90.6	19.5
MCNAIR X210		116.4	18.6	87.5	11.9
SO.STATES SS875		119.7	18.6	87.5	19.0
T-E EXP. 6935		147.8	18.7	85.4	4.6
ASGROW RX 100	*130.2*	139.4	18.7	88.5	8.6
STULL'S 809 SX	*144.3*	133.5	18.8	80.2	11.5
PIONEER BRAND 3334	*129.6*	101.8	18.9	74.0	9.8
MIGRO M-7101		126.7	18.9	86.5	13.3
DEKALB XL81	*129.4*	113.6	19.0	90.6	7.3
MIGRO M-0711	*145.1*	128.4	19.0	88.5	18.7
KENTUCKY 105	*73.3*	87.2	19.1	81.3	31.7
DEKALB XL72A		116.1	19.1	82.3	9.7
T-E MASTERMAKER	*127.0*	93.7	19.2	89.6	9.3
T-E E-20-YA		85.4	19.4	70.8	19.0
STULL'S 877 SX	*134.5*	120.6	19.5	93.8	16.9
TROJAN TXS 119	*120.1*	100.9	19.7	83.3	23.6
MCNAIR 3838	*148.2*	136.6	19.9	84.4	8.5
PIONEER BRAND 3147		164.2	21.1	85.4	6.9
YELLOW AVERAGE	*133.2*	122.1	17.8	85.0	14.2
WHITE					
KENTUCKY 5921W		112.4	16.5	87.5	47.6
MOEWS 303N	*93.6*	140.3	18.2	92.7	17.8
PIONEER BRAND 511A	*112.6*	144.5	18.3	89.6	18.6
DEKALB XL390W	*150.2*	155.8	18.6	92.7	6.9
P-A-G SX 70W		155.6	19.3	86.5	8.2
P-A-G 644W	*153.6*	145.2	19.6	88.5	13.3
STEWART S-101W		120.5	19.6	93.8	14.4
MOEWS 101N	*156.8*	149.7	19.7	87.5	25.3
STULL'S 555W	*137.4*	132.4	20.0	86.5	23.9
STULL'S 850W SX	*154.3*	139.6	20.2	87.5	5.9
FUNK'S G5708W		125.4	20.8	77.1	10.9
WHITE AVERAGE	*136.9*	138.3	19.2	88.2	17.5
GRAND AVERAGE	*135.0*	124.9	18.1	85.5	14.8

Table 10.—Annual Summary, Normal Population, Lexington, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
FUNK'S G4646	*163.5*	147.1	19.0	84.4	0.0
PIONEER BRAND 3571	*145.3*	121.5	19.9	87.5	5.7
MUNCY CHIEF SX662		152.1	20.0	96.9	8.5
P-A-G SX 83	*170.0*	152.1	20.2	90.6	3.4
MIGRO M-7101		151.5	20.3	97.9	11.9
P-A-G SX 520		162.8	20.4	95.8	6.7
SO.STATES SS875		167.2	20.5	92.7	7.9
BO-JAC X1-83		180.8	20.5	90.6	3.4
PRINCETON SX 836	*170.8*	141.0	20.5	92.7	13.4
FUNK'S G4505		143.4	20.5	97.9	7.5
NORTHRUP-KING PX670		138.1	20.5	95.8	6.3
ASGROW RX 100	*154.1*	164.0	20.6	87.5	6.6
MIGRO M-7701		155.2	20.7	99.0	22.0
TROJAN TXS 111		137.1	20.7	80.2	8.8
TROJAN TXS 122	*180.3*	164.2	20.9	93.8	8.8
TROJAN TXS 119	*152.4*	134.3	21.1	84.4	14.8
STEWART SX 71	*178.2*	156.0	21.2	93.8	8.2
MCNAIR 3838	*152.5*	114.4	21.4	91.7	18.4
MCNAIR X210		132.9	21.4	88.5	13.2
CARGILL 940		155.5	21.4	92.7	2.3
TROJAN TXS 117		137.8	21.7	86.5	13.2
P-A-G SX 39	*158.1*	128.0	21.7	80.2	9.4
PIONEER BRAND 3334	*188.8*	161.3	21.7	88.5	2.3
DEKALB XL72A		136.6	21.9	75.0	5.7
PARK SEEDS 708L		123.5	22.0	89.6	54.0
PIONEER BRAND 3369A	*185.1*	168.0	22.1	96.9	2.2
STULL'S 877 SX	*151.0*	144.4	22.4	88.5	14.0
PIONEER BRAND 3368	*180.6*	164.6	22.5	95.8	5.4
DEKALB XL85A	*162.6*	136.9	22.6	65.6	14.6
SO.STATES SS698		139.5	22.6	97.9	10.8
DEKALB XL64	*172.0*	157.7	22.7	76.0	6.0
PRINCETON SX 850	*172.1*	148.5	22.9	92.7	6.8
T-E EXP. 6935		180.3	23.0	93.8	3.2
NORTHRUP-KING PX611	*147.1*	124.3	23.1	88.5	17.7
NORTHRUP-KING PX616	*162.0*	137.5	23.2	89.6	3.4
T-E EXP. 6930		137.0	23.4	99.0	17.8
STULL'S 809 SX	*167.5*	159.3	23.7	97.9	12.8
STULL'S 807A SX	*169.6*	146.2	23.8	93.8	12.2
CARGILL 488		143.2	23.8	92.7	6.7
THOMPSON T-120Y		144.3	23.8	89.6	16.4
T-E E-20-YA		108.9	23.9	60.4	13.3
PIONEER BRAND 3147		164.5	24.0	84.4	9.9
FUNK'S G4761	*147.4*	135.0	24.2	94.8	8.8
ASGROW RX 115		153.3	24.2	85.4	15.4
HULTING X877		144.3	24.4	100.0	12.5
DEKALB XL74	*168.9*	157.6	24.6	79.2	6.7
DEKALB XL81		144.4	25.2	74.0	2.2
GUTWEIN 80		105.5	25.5	69.8	8.7
MIGRO M-0711	*156.6*	148.4	25.7	85.4	7.1
KENTUCKY 105	*109.7*	106.8	25.7	84.4	28.1
T-E MASTERMAKER	*133.4*	101.3	25.8	63.5	5.6
SO.STATES SS750		150.9	26.1	94.8	3.3
FUNK'S G5757	*159.1*	128.3	29.1	89.6	16.1
YELLOW AVERAGE	*161.4*	144.1	22.5	88.3	10.4
WHITE					
STULL'S 555W	*142.3*	129.4	21.5	91.7	42.1
DEKALB XL390W		162.0	21.8	74.0	16.7
KENTUCKY 5921W	*135.2*	120.4	23.1	80.2	24.8
PIONEER BRAND 511A	*156.5*	133.1	24.0	91.7	26.7
STULL'S 850W SX	*169.8*	146.8	24.3	91.7	13.5
P-A-G 644W	*162.1*	143.7	24.5	86.5	25.2
P-A-G SX 70W		144.3	24.6	82.3	19.2
MOEWS 101N	*189.4*	160.7	25.5	90.6	15.8
STEWART S-101W		122.2	26.3	93.8	13.1
MOEWS 303N	*124.6*	135.5	27.1	92.7	30.9
FUNK'S G5708W		114.0	27.1	100.0	27.1
WHITE AVERAGE	*154.3*	137.5	24.5	88.6	23.2
GRAND AVERAGE	*157.8*	143.0	22.9	88.3	12.6

Table 9.—Annual Summary, Normal Population, No-till, Elizabethtown, Ky.

HYBRID	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
PRINCETON SX 850	144.6	17.3	75.0	34.9
KENTUCKY 105	127.9	17.5	80.2	47.5
FUNK'S G4646	136.6	17.5	74.0	3.8
P-A-G SX 83	132.4	17.9	77.1	70.5
SO.STATES SS698	143.5	17.9	76.0	25.0
TROJAN TXS 117	120.1	17.9	74.0	44.8
ASGROW RX 115	146.2	18.0	84.4	62.7
TROJAN TXS 122	133.7	18.1	82.3	31.8
NORTHRUP-KING PX670	155.0	18.2	85.4	11.9
DEKALB XL64	107.0	18.2	75.0	31.9
CARGILL 940	143.1	18.2	79.2	40.2
FUNK'S G4505	142.7	18.3	76.0	28.2
SO.STATES SS750	171.7	18.3	69.8	19.8
TROJAN TXS 111	126.5	18.5	66.7	9.0
NORTHRUP-KING PX616	120.9	18.8	75.0	55.1
PARK SEEDS 708L	132.9	18.8	78.1	55.4
DEKALB XL81	144.4	18.9	64.6	0.0
MIGRO M-7701	161.8	19.1	83.3	41.1
T-E E-20-YA	124.0	19.1	61.5	14.8
T-E EXP. 6935	162.6	19.1	71.9	22.4
BO-JAC X1-83	156.8	19.1	76.0	10.7
THOMPSON T-120Y	146.4	19.2	83.3	61.1
FUNK'S G5757	131.3	19.3	68.8	20.2
PIONEER BRAND 3334	144.3	19.3	59.4	25.1
P-A-G SX 520	147.4	19.3	75.0	44.1
T-E MASTERMAKER	94.0	19.4	67.7	9.6
STULL'S 809 SX	145.7	19.4	62.5	21.6
DEKALB XL74	150.2	19.4	80.2	16.7
HULTING X877	144.2	19.5	78.1	66.7
DEKALB XL72A	146.9	19.5	79.2	45.6
MIGRO M-7101	149.4	19.8	69.8	26.8
MCNAIR X210	131.0	19.9	62.5	27.8
MUNCY CHIEF SX662	105.2	19.9	75.0	61.4
CARGILL 488	141.4	19.9	66.7	11.5
STEWART SX 71	136.6	20.0	67.7	33.8
PIONEER BRAND 3368	136.5	20.0	74.0	37.9
YELLOW				
MIGRO M-0711	130.2	20.1	57.3	41.0
TROJAN TXS 119	164.1	20.2	78.1	34.2
ASGROW RX 100	145.6	20.3	70.8	16.2
DEKALB XL85A	126.2	20.3	63.5	12.7
P-A-G SX 39	136.1	20.4	61.5	19.2
PIONEER BRAND 3571	128.8	20.4	70.8	16.4
SO.STATES SS875	129.5	20.4	59.4	17.6
STULL'S 807A SX	133.2	20.5	67.7	52.0
PIONEER BRAND 3369A	159.8	20.9	81.3	42.4
NORTHRUP-KING PX611	119.2	21.1	67.7	15.7
FUNK'S G4761	141.2	21.2	78.1	29.5
STULL'S 877 SX	145.7	21.2	81.3	30.1
MCNAIR 3838	149.2	21.3	74.0	38.1
PIONEER BRAND 3147	111.9	21.4	71.9	62.5
PRINCETON SX 836	140.2	21.7	63.5	5.1
GUTWEIN 80	138.4	21.9	63.5	4.9
T-E EXP. 6930	127.6	21.9	75.0	33.5
YELLOW AVERAGE	138.0	19.5	72.5	31.0
WHITE				
STEWART S-101W	128.5	18.0	85.4	58.0
DEKALB XL390W	147.2	18.3	70.8	62.5
FUNK'S G5708W	113.2	18.3	53.1	42.3
KENTUCKY 5921W	114.1	18.4	63.5	84.7
MOEWS 101N	134.9	19.3	76.0	44.5
P-A-G SX 70W	149.0	20.1	70.8	54.2
MOEWS 303N	144.3	20.3	66.7	64.3
P-A-G 644W	137.3	20.4	68.8	47.3
PIONEER BRAND 511A	118.1	20.6	77.1	71.5
STULL'S 555W	119.2	22.8	67.7	51.5
STULL'S 850W SX	151.6	23.4	72.9	59.2
WHITE AVERAGE	132.5	20.0	70.3	58.2
GRAND AVERAGE	137.0	19.6	72.1	35.7

Table 6.—Annual Summary, Normal Population, Henderson, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
NORTHRUP-KING PX611	*105.0*	109.2	16.2	70.8	0.0
PIONEER BRAND 3369A	*146.0*	145.0	16.6	71.9	0.0
FUNK'S G4505		126.0	16.9	77.1	0.0
CARGILL 940		123.9	17.2	80.2	0.0
NORTHRUP-KING PX670		121.1	17.3	75.0	0.0
DEKALB XL74		119.5	17.3	75.0	1.2
TROJAN TXS 111		122.1	17.4	77.1	0.0
PRINCETON SX 850	*142.4*	146.1	17.4	80.2	0.0
SO.STATES SS698		111.0	17.4	82.3	0.0
PRINCETON SX 836	*126.1*	137.8	17.5	67.7	0.0
P-A-G SX 83	*117.7*	123.6	17.5	67.7	3.2
NORTHRUP-KING PX616	*136.4*	150.6	17.5	91.7	3.4
PIONEER BRAND 3571	*116.3*	118.6	17.5	81.3	0.0
DEKALB XL64	*111.2*	95.6	17.5	66.7	0.0
SO.STATES SS750		116.1	17.6	72.9	5.6
PIONEER BRAND 3334	*128.4*	132.9	17.8	68.8	0.0
P-A-G SX 520		123.0	17.8	70.8	1.4
FUNK'S G5757	*121.1*	128.6	18.0	65.6	1.4
CARGILL 488		116.3	18.0	81.3	5.0
PIONEER BRAND 3368	*138.6*	128.1	18.1	63.5	0.0
HULTING X877		123.8	18.1	71.9	0.0
GUTWEIN 80		147.8	18.1	83.3	2.5
TROJAN TXS 122	*120.9*	111.6	18.2	71.9	2.7
MIGRO M-7101		124.0	18.4	70.8	0.0
MIGRO M-7701		138.9	18.4	78.1	1.0
ASGROW RX 115		140.1	18.4	77.1	0.0
TROJAN TXS 117		114.9	18.5	74.0	0.0
DEKALB XL81	*121.0*	121.6	18.6	71.9	0.0
T-E EXP. 6935		144.5	18.6	74.0	0.0
BO-JAC X1-83		137.4	18.7	74.0	0.0
SO.STATES SS875		126.8	18.9	79.2	1.2
MUNCY CHIEF SX662		127.8	18.9	83.3	0.0
THOMPSON T-120Y		125.0	18.9	81.3	3.6
PARK SEEDS 708L		135.9	19.0	72.9	2.4
KENTUCKY 105	*74.3*	119.5	19.1	77.1	7.3
STULL'S 809 SX	*122.8*	118.8	19.2	69.8	0.0
YELLOW					
P-A-G SX 39	*133.9*	131.4	19.3	67.7	0.0
FUNK'S G4646	*131.0*	121.8	19.5	67.7	1.7
DEKALB XL72A		122.9	19.5	62.5	1.9
T-E E-20-YA		91.1	19.6	67.7	2.5
STULL'S 807A SX	*132.2*	137.0	19.6	84.4	0.0
STEWART SX 71	*133.2*	122.7	19.7	76.0	2.7
TROJAN TXS 119	*128.4*	135.0	19.9	78.1	2.6
DEKALB XL85A	*130.8*	134.8	19.9	78.1	0.0
T-E MASTERMAKER	*110.5*	89.2	20.0	80.2	0.0
MCNAIR 3838	*149.5*	163.5	20.0	79.2	0.0
PIONEER BRAND 3147		153.1	20.1	63.5	1.4
T-E EXP. 6930		114.1	20.2	67.7	4.1
MCNAIR X210		117.6	20.3	65.6	1.4
MIGRO M-0711	*140.4*	149.3	20.4	80.2	1.3
FUNK'S G4761	*103.4*	105.1	21.5	72.9	1.4
ASGROW RX 100	*113.2*	125.1	22.6	79.2	1.3
STULL'S 877 SX	*130.1*	130.5	22.8	80.2	1.1
YELLOW AVERAGE	*124.6*	126.4	18.7	74.5	1.2
WHITE					
KENTUCKY 5921W	*84.1*	123.7	19.2	85.4	15.7
MOEWS 303N	*114.3*	146.3	19.9	80.2	0.0
STEWART S-101W		116.3	20.3	85.4	2.6
FUNK'S G5708W		113.2	21.4	56.3	1.4
P-A-G 644W	*125.4*	135.3	21.7	75.0	0.0
PIONEER BRAND 511A	*122.6*	139.1	22.0	70.8	0.0
STULL'S 850W SX	*145.1*	150.0	22.1	81.3	1.4
DEKALB XL390W		145.8	22.1	81.3	1.3
STULL'S 555W	*122.4*	124.0	22.2	70.8	1.3
P-A-G SX 70W		143.5	22.8	86.5	0.0
MOEWS 101N	*142.2*	149.6	23.8	80.2	10.5
WHITE AVERAGE	*122.2*	135.2	21.6	77.6	3.1
GRAND AVERAGE	*123.4*	127.9	19.2	75.0	1.6

Table 7.—Annual Summary, Normal Population, Hartford, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
TROJAN TXS 111		107.9	19.7	93.8	11.8
DEKALB XL64	*132.6*	109.2	19.8	93.8	58.3
CARGILL 940		110.5	20.0	92.7	29.9
FUNK'S G4505		108.0	20.4	93.8	55.6
SO.STATES SS750		129.6	20.5	89.6	24.7
P-A-G SX 520		136.2	20.5	96.9	9.7
PIONEER BRAND 3334	*125.6*	113.8	20.9	89.6	43.5
PRINCETON SX 836	*145.8*	114.4	21.1	91.7	55.1
SO.STATES SS698		108.0	21.2	93.8	25.5
PIONEER BRAND 3369A	*162.1*	126.7	21.2	97.9	39.4
NORTHRUP-KING PX611	*115.9*	92.1	21.2	92.7	32.4
PIONEER BRAND 3571	*127.7*	126.6	21.3	92.7	5.6
NORTHRUP-KING PX670		107.4	21.3	94.8	21.9
T-E EXP. 6935		126.6	21.5	91.7	29.6
NORTHRUP-KING PX616	*116.1*	115.5	21.7	93.8	36.4
BO-JAC X1-83		136.5	21.7	97.9	48.1
PRINCETON SX 850	*138.7*	105.1	21.8	99.0	48.2
P-A-G SX 83	*129.4*	135.5	21.9	85.4	2.3
THOMPSON T-120Y		96.5	22.0	83.3	47.3
DEKALB XL74		122.8	22.1	90.6	52.9
PARK SEEDS 708L		101.9	22.1	94.8	64.3
DEKALB XL81	*130.9*	131.6	22.2	87.5	35.5
ASGROW RX 115		83.3	22.2	95.8	59.2
MIGRO M-7701		143.6	22.6	89.6	47.9
FUNK'S G4646	*116.3*	110.7	22.7	93.8	27.9
STULL'S 807A SX	*122.0*	114.3	22.7	92.7	42.2
SO.STATES SS875		114.7	22.8	99.0	33.4
HULTING X877		102.5	22.9	90.6	58.9
CARGILL 488		106.6	22.9	90.6	28.7
MIGRO M-7101		116.9	22.9	96.9	58.3
STULL'S 877 SX	*124.0*	100.3	23.0	93.8	43.3
PIONEER BRAND 3368	*139.1*	109.1	23.0	100.0	36.5
STEWART SX 71	*161.0*	129.8	23.3	90.6	44.8
TROJAN TXS 117		121.1	23.3	95.8	9.7
MUNCY CHIEF SX662		102.0	23.5	96.9	53.2
T-E E-20-YA		108.4	23.6	83.3	37.2
YELLOW					
FUNK'S G5757	*128.9*	99.5	23.8	80.2	29.7
P-A-G SX 39	*133.2*	112.7	24.0	84.4	51.8
ASGROW RX 100	*130.2*	131.2	24.0	94.8	33.0
GUTWEIN 80		92.7	24.1	92.7	53.8
DEKALB XL72A		122.7	24.4	99.0	13.6
FUNK'S G4761	*113.5*	75.4	24.7	85.4	19.5
T-E MASTERMAKER	*117.5*	71.8	24.9	90.6	17.9
TROJAN TXS 119	*131.2*	114.9	25.0	86.5	41.5
TROJAN TXS 122	*131.8*	115.0	25.1	95.8	19.1
STULL'S 809 SX	*143.8*	123.9	25.1	93.8	23.9
KENTUCKY 105	*68.7*	58.9	25.2	80.2	71.7
PIONEER BRAND 3147		110.8	25.3	90.6	29.5
MIGRO M-0711	*130.1*	99.1	25.6	92.7	32.9
MCNAIR 3838	*119.4*	106.5	25.6	88.5	27.6
T-E EXP. 6930		99.2	25.6	89.6	55.9
MCNAIR X210		76.1	25.7	95.8	45.2
DEKALB XL85A	*129.4*	112.1	25.8	94.8	67.1
YELLOW AVERAGE	*128.3*	110.3	22.9	92.1	37.6
WHITE					
MOEWS 303N	*90.0*	86.5	23.3	91.7	46.4
P-A-G 644W	*118.2*	94.2	24.1	91.7	42.0
P-A-G SX 70W		79.5	24.9	94.8	78.0
STULL'S 555W	*129.0*	79.0	25.2	94.8	43.9
MOEWS 101N	*111.8*	94.0	25.3	88.5	52.0
STEWART S-101W		66.5	25.4	89.6	50.0
DEKALB XL390W		79.8	25.5	97.9	73.4
PIONEER BRAND 511A	*122.2*	108.8	25.6	90.6	56.5
KENTUCKY 5921W	*98.2*	94.1	26.1	87.5	66.1
FUNK'S G5708W		78.1	27.3	90.6	31.3
STULL'S 850W SX	*114.8*	97.5	28.3	94.8	66.6
WHITE AVERAGE	*112.0*	87.1	25.5	92.0	55.1
GRAND AVERAGE	*120.2*	106.3	23.3	92.1	40.6

Table 8.—Annual Summary, Normal Population, Franklin, Ky.

HYBRID	2-YR YIELD BU/AC	1972 RESULTS YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
TROJAN TXS 111		149.7	15.1	90.6	3.5
NORTHRUP-KING PX611	*130.1*	118.4	16.3	88.5	4.7
TROJAN TXS 122	*156.6*	161.9	16.4	94.8	3.5
NORTHRUP-KING PX616		141.3	16.7	91.7	2.4
P-A-G SX 83	*148.3*	137.2	16.7	93.8	5.7
THOMPSON T-120Y		138.5	16.8	83.3	1.2
FUNK'S G4505		109.8	16.8	78.1	1.2
PIONEER BRAND 3368	*154.4*	141.0	16.9	90.6	2.4
SO.STATES SS750		149.9	16.9	94.8	4.4
DEKALB XL74		120.7	16.9	82.3	4.9
T-E EXP. 6935		165.4	17.0	90.6	0.0
BO-JAC X1-83		158.0	17.3	88.5	2.3
PARK SEEDS 708L		136.6	17.3	88.5	4.6
PRINCETON SX 836	*164.4*	152.2	17.3	90.6	6.6
STEWART SX 71	*174.6*	155.7	17.3	89.6	9.2
MIGRO M-7701		165.2	17.4	96.9	2.2
PIONEER BRAND 3147		161.0	17.4	87.5	4.7
P-A-G SX 520		141.9	17.4	94.8	2.1
DEKALB XL85A	*154.0*	137.4	17.5	89.6	2.4
NORTHRUP-KING PX670		136.9	17.5	96.9	2.2
KENTUCKY 105	*84.2*	112.6	17.5	82.3	5.1
MIGRO M-7101		134.2	17.5	76.0	0.0
HULTING X877		140.1	17.5	91.7	3.5
T-E EXP. 6930		142.6	17.5	93.8	13.5
FUNK'S G4761	*115.2*	125.2	17.6	90.6	3.6
CARGILL 488		135.3	17.6	89.6	5.5
DEKALB XL64	*134.3*	124.2	17.6	76.0	0.0
STULL'S 807A SX	*146.2*	132.3	17.7	88.5	4.9
PIONEER BRAND 3369A	*175.3*	180.2	17.7	97.9	0.0
MUNCY CHIEF SX662		141.1	17.7	91.7	2.2
MIGRO M-0711	*164.5*	165.0	17.7	91.7	2.2
MCNAIR X210		135.5	17.8	88.5	2.4
PIONEER BRAND 3334	*146.4*	151.3	17.8	82.3	0.0
PRINCETON SX 850	*163.1*	163.0	17.8	96.9	2.2
T-E E-20-YA		114.5	17.8	87.5	2.5
TROJAN TXS 117		138.2	17.8	93.8	1.1
YELLOW					
PIONEER BRAND 3571	*149.3*	161.4	17.9	97.9	0.0
SO.STATES SS698		128.4	17.9	99.0	5.3
DEKALB XL72A		155.5	17.9	92.7	3.4
FUNK'S G4646	*142.4*	129.7	18.0	93.8	2.3
GUTWEIN 80		139.7	18.0	88.5	1.3
ASGROW RX 115		143.3	18.0	90.6	2.2
T-E MASTERMAKER	*119.0*	90.1	18.1	90.6	1.1
TROJAN TXS 119	*141.6*	127.4	18.2	88.5	3.3
ASGROW RX 100	*114.6*	138.6	18.2	90.6	1.1
DEKALB XL81	*146.7*	131.5	18.2	86.5	3.6
SO.STATES SS875		141.3	18.2	91.7	2.4
STULL'S 877 SX	*143.7*	132.1	18.3	93.8	5.4
STULL'S 809 SX	*154.6*	151.6	18.4	96.9	3.3
P-A-G SX 39	*162.6*	158.0	19.0	93.8	2.3
FUNK'S G5757	*160.7*	151.7	19.4	78.1	0.0
MCNAIR 3838	*153.3*	132.4	19.5	96.9	0.0
CARGILL 940		144.9	19.6	94.8	1.0
YELLOW AVERAGE	*145.8*	141.0	17.6	90.3	3.0
WHITE					
STEWART S-101W		124.9	16.6	92.7	7.9
KENTUCKY 5921W	*106.5*	132.8	16.9	96.9	7.5
P-A-G 644W	*141.4*	124.0	17.2	91.7	9.0
PIONEER BRAND 511A	*143.8*	129.3	17.5	88.5	6.9
DEKALB XL390W		134.0	17.7	94.8	8.8
MOEWS 101N	*150.4*	143.6	18.1	87.5	11.8
MOEWS 303N	*110.1*	130.0	18.1	97.9	7.6
STULL'S 555W	*146.1*	139.2	18.1	91.7	9.0
STULL'S 850W SX	*145.0*	133.3	18.3	92.7	3.3
P-A-G SX 70W		170.2	19.3	93.8	1.1
FUNK'S G5708W		107.3	19.6	91.7	9.1
WHITE AVERAGE	*134.8*	133.5	17.9	92.7	7.4
GRAND AVERAGE	*140.3*	139.7	17.7	90.7	3.7