



**KENTUCKY**  
**HYBRID CORN**  
**PERFORMANCE TEST - 1972**

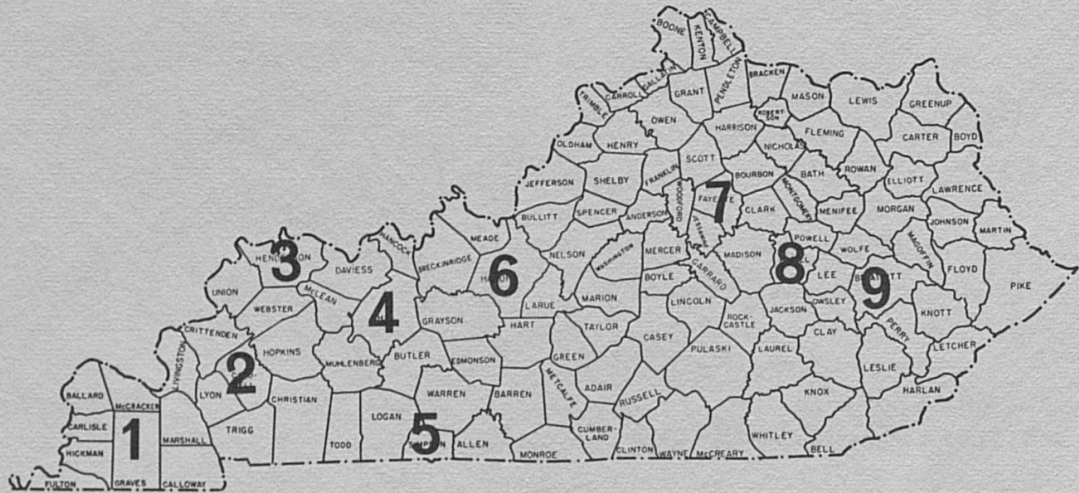
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206

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

## TESTING LOCATIONS OF THE 1972 KENTUCKY HYBRID CORN PERFORMANCE TRIALS



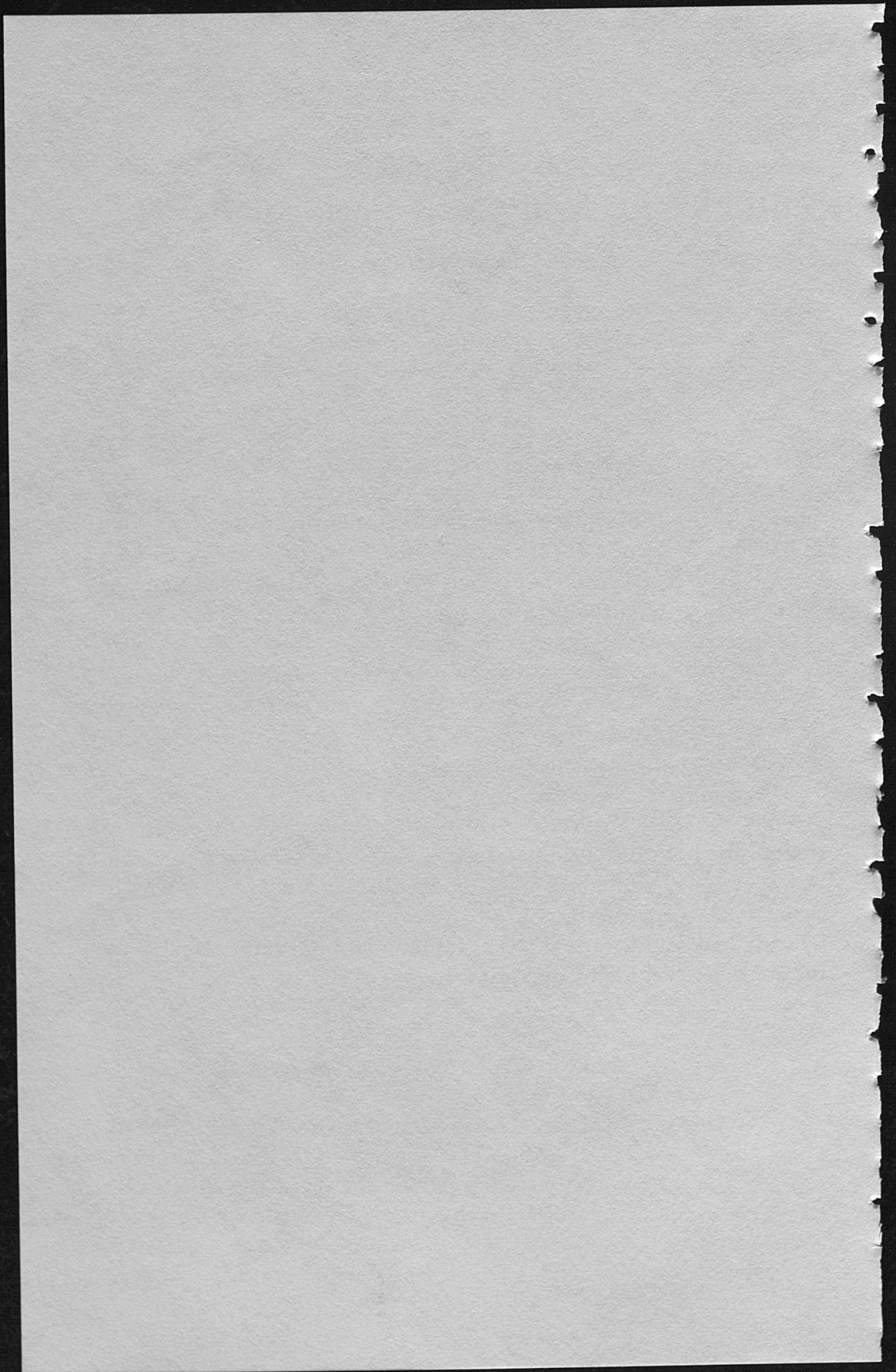
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# Kentucky Hybrid Corn Performance Test 1972

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.

## 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 2.—Hybrids Tested in 1972.

Hybrid	Test*	Color	Cross**	Source of Hybrid
Asgrow	RX 100	A	2X	Asgrow Seed Co.
	RX 115	A	2X	Des Moines, Ia. 50310
B & B	9-2	C	2X	Broadbent Hybrids
	10-3	C	3X	Route # 1
	11-7	C	2X	Cadiz, Ky. 42211
Bo-Jac	X1-83	A	2X	Bo-Jac Hybrid Corn Co.
	X -91	C	2X	Mt. Pulaski, Ill. 62548
Cargill	488	A	3X	Cargill, Inc.
	940	A,C	2X	1433 Cargill Bldg. Minneapolis, Minn. 55402
Dekalb	XL64	A	2X	Dekalb Ag. Research Inc.
	XL72A	A	2X	Dekalb, Ill. 60015
	XL74	A,C	2X	
	XL85A	A	2X	
	XL81	A	2X	
	XL390W	A	3X	
	XL44	C	2X	
	XL66	C	2X	
	XL374	B	3X	
	833	B	4X	
	Exp. 1927	B	4X	
Funk's	G5757	A	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	4X	
	Exp. 25760	C	3X(Mod.)	
	G4808	B	2X	
	Exp. 24831	B	3X	
Gutwein	80	A	2X	Gutwein & Sons, Inc.
	65	C	2X	Francesville, Ind. 47946
Holdens	1022	B	2X(Mod.)	Holdens Foundation Seeds
	035A	B	2X	Williamsburg, Ia. 52361
Hulting	X877	A	2X	Hulting & Son, Inc.
	X770	C	2X	Geneseo, Ill. 61254
	X8775	C	3X	
McNair	X210	A,B	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 Box 7 Mitchell, Ind. 47446
	M-7101	A	"	2X	
	M-7701	A	"	2X	
	M-7072	C	"	2X	
	M-5045	C	"	4X	
	M-7340	C	White	4X	
	M-46	C	Yellow	2X	
Moews	101N <sup>1/</sup>	A,C	White	2X	The Moews Companies Granville, Ill. 61326
	303N <sup>1/</sup>	A,C	"	3X	
Muncy Chief	SX662	A,C	Yellow	2X	Muncy Chief Hybrids Muncy, Pa. 17756
Northrup- King	PX611	A,C	Yellow	3X	Northrup, King & Co. 1500 Jackson St., N.E. Minneapolis, Minn. 55402
	PX616	A,C	"	3X	
	PX670	A,C	"	3X	
	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 Box 2813 Northstar Station, Minneapolis, Minn. 55402
	SX 83	A	"	2X	
	SX 70W	A	White	2X	
	SX 520	A	Yellow	2X	
	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. P.O. Box 278 Union City, Tenn. 38261
	3334	A	"	2X	
	3368	A	"	2X (Mod.)	
	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 Princeton, Ind. 47670
	SX 836	A	"	2X	

(continued)

Table 2 (continued)

Hybrid		Test*	Color	Cross**	Source of Hybrid
Southern States	SS698	A	Yellow	Sp.	Southern States Coop, Inc. 2600 Durham St. Richmond, Va. 23220
	SS875	A	"	4X	
	SS750	A	"	Sp.	
	SS866				
Stewart	SX 71	A	Yellow	2X	Stewart Hybrids, Inc. Route 1 Princeville, Ill. 61559
	S-101W	A	White	3X	
	S-877	C	Yellow	3X	
Stull's	809-SX	A	Yellow	2X	Stull Bros. Inc. P.O. Box 7 Sebree, Ky.42455
	877-SX	A	"	2X	
	807A-SX	A	"	2X	
	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. P.O. Box 480 Tulia, Texas 79088
	E-20-YA	A	"	4X	
	Exp. 6935	A	"	2X	
	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. Box 367 Windfall, Ind. 46076
	TXS 119	A	"	2X	
	TXS 122	A	"	2X	
	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 <sup>2/</sup>	A,B	Yellow	4X	Ky. Agri. Exp. Station Lexington, Ky. 40506
	Ky 5921W <sup>2/</sup>	A,B	White	4X	

\* 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 & Lindsie 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 4.—Annual Summary, Normal Population, Lowes, Ky.

HYBRID	1972 RESULTS				1972 RESULTS					
	2-YR YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	2-YR YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW										
TROJAN TXS 111		130.1	15.5	67.7	0.0		120.0	18.1	76.0	0.0
PIONEER BRAND 3571		117.9	15.8	66.7	0.0		124.8	18.2	70.8	5.7
NORTHRUP-KING PX616	124.6	149.7	16.1	79.2	1.2	149.5	140.2	18.3	74.0	0.0
CARGILL 940		126.7	16.1	66.7	3.8	163.1	145.4	18.3	75.0	0.0
NORTHRUP-KING PX611	139.0	111.8	16.2	70.8	0.0	145.0	131.7	18.4	70.8	0.0
DEKALB XL64	105.3	67.3	16.5	54.2	18.2	134.6	152.0	18.5	78.1	1.2
NORTHRUP-KING PX670		118.7	16.5	69.8	4.5	137.9	117.3	18.5	75.0	2.8
PIONEER BRAND 3334	152.6	142.5	16.6	67.4	5.2	140.3	114.1	18.5	76.0	0.0
THOMPSON T-120Y		112.0	16.6	60.4	0.0	175.8	161.4	18.6	76.0	0.0
DEKALB XL74		124.8	16.7	65.6	2.8		112.7	18.6	70.8	12.2
SO-STATES SS875		127.5	16.8	67.7	2.9	140.5	109.9	18.7	59.4	4.5
CARGILL 488		113.6	16.8	63.5	4.9	157.2	134.1	18.8	74.0	1.7
SO-STATES SS750		109.9	16.9	65.6	5.1	157.5	146.3	18.9	81.3	0.0
BO-JAC X1-83		141.0	16.9	67.7	3.3		143.1	19.3	79.2	2.8
GUTWEIN 80		139.4	16.9	76.0	1.4	132.9	95.3	19.9	54.2	6.1
MIGRO M-7701	141.8	147.3	17.0	81.3	2.8		149.7	20.7	64.6	1.4
FUNK'S G4646		115.8	17.0	61.5	3.7		89.7	20.9	57.3	4.2
FUNK'S G4505		118.4	17.2	67.7	2.3					
PARK SEEDS 708L		121.8	17.3	70.8	11.0	144.0	124.2	17.7	68.3	3.6
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		132.8	17.1	65.6	3.3
PRINCETON SX 836	159.2	144.0	17.4	68.8	4.6		153.2	17.2	78.1	4.3
TROJAN TXS 117		107.2	17.4	55.2	6.5		152.0	17.8	64.6	3.0
P-A-G SX 83	162.6	147.2	17.5	69.8	2.9		136.9	18.2	78.1	2.2
MIGRO M-7101		125.1	17.6	75.0	8.8		152.9	18.3	71.9	0.0
DEKALB XL85A	160.5	132.1	17.6	66.7	2.8		100.9	18.7	68.8	7.6
T-E EXP. 6935		129.5	17.8	60.4	3.7		160.8	18.7	76.0	2.2
ASGROW RX 115		153.8	17.8	78.1	2.8		163.2	19.2	72.9	0.0
STULL'S 807A SX	151.7	123.0	17.9	66.7	0.0		145.0	19.3	81.3	6.1
KENTUCKY 105	98.4	99.8	17.9	66.7	16.2		142.6	19.7	68.8	1.2
P-A-G SX 520		132.0	17.9	69.8	1.5		126.9	20.7	63.5	3.0
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		142.5	18.6	71.8	3.0
WHITE										
GRAND AVERAGE	147.8	127.3	17.9	68.9	3.5					

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

HYBRID	1972 RESULTS				1972 RESULTS			
	2-YR YIELD BU/AC	YIELD BU/AC	AVG % MOIST	STAND LODGED	YIELD BU/AC	AVG % MOIST	STAND LODGED	TOTAL % LODGED
YELLOW								
TROJAN TXS 111		111.8	15.2	90.6			7.9	
PIONEER BRAND 3571		115.7	15.3	96.9			12.8	
P-A-G SX 83	119.9	110.8	16.0	84.4			49.8	
DEKALB XL64	121.9	123.8	16.1	90.6			8.9	
NORTHROP-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	
NORTHROP-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 G450S		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	
NORTHROP-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		122.2	17.7	84.4			12.1	
DEKALB XL85A	134.6	150.4	17.7	90.6			14.9	
STULL'S 807A SX	150.8	131.8	17.9	87.5			10.4	
T-E EXP. 6930	144.2	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		139.0	18.3	83.3			12.5	
FUNK'S G5757	144.1	120.1	18.4	77.1			13.4	
P-A-G SX 520	132.7	133.5	18.4	84.4			12.2	
TROJAN TXS 122	146.1	135.9	18.4	85.4			7.0	
MIGRO M-7701		136.5	18.5	90.6			19.5	
YELLOW AVERAGE								
WHITE								
KENTUCKY 5921W		112.4	16.5					
MOEWS 303N	93.6	140.3	18.2					
PIONEER BRAND 511A	112.6	144.5	18.3					
DEKALB XL390W	150.2	155.8	18.6					
P-A-G SX 70W		155.6	19.3					
P-A-G 644W	153.6	145.2	19.6					
STEWART S-101W		120.5	19.6					
MOEWS 101N	156.8	149.7	19.7					
STULL'S 555W	137.4	132.4	20.0					
STULL'S 850W SX	154.3	139.6	20.2					
FUNK'S G5708W		125.4	20.8					
WHITE AVERAGE								
GRAND AVERAGE								
		138.3	19.2	88.2			17.5	
		124.9	18.1	85.5			14.8	



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

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



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

HYBRID	2-YR YIELD BU/AC	1972 RESULTS				1972 RESULTS			
		YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW									
TROJAN TXS 111		149.7	15.1	90.6	3.5	149.3	17.9	97.9	0.0
NORTHROP-KING PX611	130.1	118.4	16.3	88.5	4.7		17.9	99.0	5.3
TROJAN TXS 122	156.6	161.9	16.4	94.8	3.5		17.9	92.7	3.4
NORTHROP-KING PX616		141.3	16.7	91.7	2.4	142.4	18.0	93.8	2.3
P-A-G SX 83	148.3	137.2	16.7	93.8	5.7		18.0	88.5	1.3
THOMPSON T-120Y		138.5	16.8	83.3	1.2		18.0	90.6	2.2
FUNK'S G4505		109.8	16.8	78.1	1.2	119.0	18.1	90.6	1.1
PIONEER BRAND 3368	154.4	141.0	16.9	90.6	2.4	141.6	18.2	88.5	3.3
SO-STATES SS750		149.9	16.9	94.8	4.4	114.6	18.2	90.6	1.1
DEKALB XL74		120.7	16.9	82.3	4.9	146.7	18.2	86.5	3.6
T-E EXP. 6935		165.4	17.0	90.6	0.0		18.2	91.7	2.4
80-JAC X1-83		158.0	17.3	88.5	2.3		18.3	93.8	5.4
PARK SEEDS 708L		136.6	17.3	88.5	4.6	143.7	18.4	96.9	3.3
PRINCETON SX 836	164.4	152.2	17.3	90.6	6.6	154.6	18.4	93.8	2.3
STEWART SX 71	174.6	155.7	17.3	89.6	9.2	162.6	19.0	78.1	0.0
MIGRO M-7701		165.2	17.4	96.9	2.2	160.7	19.4	96.9	0.0
PIONEER BRAND 3147		161.0	17.4	87.5	4.7	153.3	19.5	96.9	0.0
P-A-G SX 520		141.9	17.4	94.8	2.1		19.6	94.8	1.0
DEKALB XL85A	154.0	137.4	17.5	89.6	2.4	145.8	17.6	90.3	3.0
NORTHROP-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	106.5	16.6	92.7	7.9
T-E EXP. 6930		142.6	17.5	93.8	13.5	141.4	16.9	96.9	7.5
FUNK'S G4761	115.2	125.2	17.6	90.6	3.6	143.8	17.5	88.5	6.9
CARGILL 488		135.3	17.6	89.6	5.5		17.7	94.8	8.8
DEKALB XL64	134.3	124.2	17.6	76.0	0.0	150.4	18.1	87.5	11.8
STULL'S 807A SX	146.2	132.3	17.7	88.5	4.9	143.8	18.1	97.9	7.6
PIONEER BRAND 3369A	175.3	180.2	17.7	97.9	0.0	130.0	18.1	91.7	9.0
MUNCY CHIEF SX662		141.1	17.7	91.7	2.2	146.1	18.1	92.7	3.3
MIGRO M-0711	164.5	165.0	17.7	91.7	2.2	145.0	18.3	93.8	1.1
MCNAIR X210		135.5	17.8	88.5	2.4		19.3	91.7	9.1
PIONEER BRAND 3334	146.4	151.3	17.8	82.3	0.0		19.6	92.7	7.4
PRINCETON SX 850	163.1	163.0	17.8	96.9	2.2	134.8	17.9	92.7	7.4
T-E E-20-YA		114.5	17.8	87.5	2.5				
TROJAN TXS 117		138.2	17.8	93.8	1.1	140.3	17.7	90.7	3.7
WHITE AVERAGE									
GRAND AVERAGE									

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

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

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

HYBRID	1972 RESULTS				1972 RESULTS				HYBRID	1972 RESULTS										
	2-YR YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	2-YR YIELD BU/AC	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															
NORTHROP-KING PX670		138.1	20.5	95.8	6.3															
ASGROW RX 100		164.0	20.6	87.5	6.6															
MIGRO M-7701	154.1	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															
NORTHROP-KING PX611	147.1	124.3	23.1	88.5	17.7															
NORTHROP-KING PX616	162.0	137.5	23.2	89.6	3.4															
T-E EXP. 6930		137.0	23.4	99.0	17.8															
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 SX 70W	162.1	143.7	24.5	86.5	25.2															
MOEWS 101N	189.4	144.3	24.6	82.3	19.2															
STEWART S-101W		160.7	25.5	90.6	15.8															
MOEWS 303N	124.6	122.2	26.3	93.8	13.1															
FUNK'S G5708W		135.5	27.1	92.7	30.9															
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 11.—Annual Summary, Normal Population, Quicksand, Ky.

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

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

HYBRID	1972 RESULTS				1972 RESULTS			
	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW								
TROJAN TXS 111	126.8	18.2	81.5	8.8	103.0	20.6	70.4	17.5
P-A-G SX 83	136.1	18.7	82.4	20.7	136.6	20.6	78.4	13.6
FUNK'S G4505	121.9	18.7	83.3	16.3	125.1	20.6	79.7	15.4
NORTHROP-KING PX670	124.4	18.7	85.9	11.1	133.7	20.6	79.2	15.9
PIONEER BRAND 3571	129.0	18.8	85.8	5.9	124.7	20.6	79.9	19.4
CARGILL 940	131.4	18.9	84.9	14.0	99.0	20.7	78.4	31.7
DEKALB XL64	108.1	19.0	76.7	17.3	123.5	20.7	80.3	16.2
NORTHROP-KING PX616	137.1	19.2	88.2	17.5	139.2	20.9	83.9	11.2
NORTHROP-KING PX611	109.5	19.3	81.3	15.7	112.2	20.9	77.7	25.2
BO-JAC X1-83	151.6	19.3	83.3	11.1	141.7	20.9	84.9	12.1
PIONEER BRAND 3369A	155.1	19.4	87.8	13.6	83.5	21.1	75.9	7.9
FUNK'S G4646	122.4	19.4	79.3	10.1	129.8	21.2	86.3	15.8
P-A-G SX 520	137.4	19.5	84.1	11.7	115.9	21.2	82.4	13.7
PRINCETON SX 836	132.8	19.5	80.2	14.8	133.8	21.2	81.4	15.8
DEKALB XL74	133.9	19.5	81.9	16.1	132.6	21.3	84.1	16.3
PRINCETON SX 850	140.8	19.5	88.3	16.1	121.5	21.4	74.0	13.5
TROJAN TXS 117	121.6	19.5	80.1	14.9	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	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				
THOMPSON T-120Y	125.5	19.7	79.7	18.8	114.2	20.0	81.5	35.1
SO.STATES SS750	138.2	19.7	82.6	10.2	130.8	21.1	82.6	24.0
PIONEER BRAND 3368	143.1	19.8	85.7	13.0	136.5	21.1	82.9	24.6
T-E EXP. 6935	152.1	19.8	81.9	9.8	110.5	21.2	87.1	22.5
TROJAN TXS 122	127.4	19.9	81.8	12.6	127.7	21.3	85.8	31.5
CARGILL 488	121.3	19.9	79.8	12.7	127.2	21.7	84.8	29.4
SO.STATES SS875	133.6	19.9	83.2	12.5	139.9	21.8	83.9	22.9
MIGRO M-7101	133.1	20.0	81.9	17.4	122.0	21.8	82.6	25.8
ASGROW RX 115	133.1	20.0	85.4	25.4	140.9	21.9	83.5	24.8
MUNCY CHIEF SX662	123.5	20.0	87.0	19.0	139.1	22.5	85.0	24.1
STEWART SX 71	131.1	20.0	82.8	18.1	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	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	128.5	20.3	82.2	17.4
WHITE								
KENTUCKY 5921M								
P-A-G 644W								
DEKALB XL390W								
STEWART S-101W								
MOEWS 303N								
PIONEER BRAND 511A								
P-A-G SX 70W								
STULL'S 555W								
MOEWS 101N								
STULL'S 850W SX								
FUNK'S G5708M								
WHITE AVERAGE								
GRAND AVERAGE								

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

HYBRID	2-YR	1972 RESULTS			
	YIELD BU/AC	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 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

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 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
Deka 1b 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	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	809 SX	0.05	1.0	2.0
G5708W	1.3	1.7	1.3	877 SX	0.05	2.0	2.7
80	0.5	0.7	1.7	807A SX	0.7	2.0	2.0
Gutwein X877	2.7	4.0	4.0	850W SX	1.3	0.7	1.3
X210	1.0	2.3	2.0	555W	2.0	0.5	1.3
McNair 3838	0.05	1.0	1.0	Mastermaker	1.7	2.7	3.0
M-0711	1.0	2.3	2.7	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	T-120Y	1.7	2.7	2.3
303N	1.7	0.7	1.3	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.	4.0SCLB*	3.0SCLB*	3.0SCLB*
P.A.G. SX 39	1.0	2.3	2.3	Ky 105	3.7SCLB*	3.0SCLB*	3.3SCLB*
SX 83	0.7	2.7	2.7	Ky 5921W			
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

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 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

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

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