Table 21. (continued)

Hybrid	Southern Corn Leaf Blight* 8-11-70	9-2-70	Grain Quality**
White			
W. O. King & Son K-60	5.3	7.3	1.8
Schenk S-96W	5.4	7.2	1.5
K.A.E.S. Ky 5921W	5.5	7.2	2.0
T-E M-20W	6.4	6.9	2.1
Stull's 550W	6.0	7.0	1.9
S.S. 935W	5.5	7.8	2.0
Princeton 990B	5.7	6.7	1.9
Meacham's M-7B	5.2	6.4	1.9
Princeton 920A	4.9	6.7	1.7
Dekalb XL390W	6.0	7.7	2.4
P.A.G. SX-90W	2.4	3.2	1.0
Pioneer 511A	2.0	3.0	1.0
Funk's G4895W	4.0	5.0	1.3
White Average	4.9	6.3	1.7
Grand Average	5.0	6.9	1.5

* Ratings for Southern Corn Leaf Blight (SCLB) on a 0-9 scale. 0 = no leaf lesion, 9 = dead or very severely damaged. The early ratings (8-11-70) were taken at Franklin and Hartford, Ky. and the late ratings (9-2-70) at Hartford and Henderson, Ky. by Dr. A. S. Williams, Department of Plant Pathology.

** 1 = Few diseased, shriveled kernels and no broken cobs in grain at harvest.
2 = Moderate amounts of above factors.
3 = Excessive amounts of above factors.
Ratings in table represent the average over all non-virus locations.

15M--1-71

KENTUCKY HYBRID CORN PERFORMANCE TEST - 1970

C. G. Poneleit
K. O. Evans

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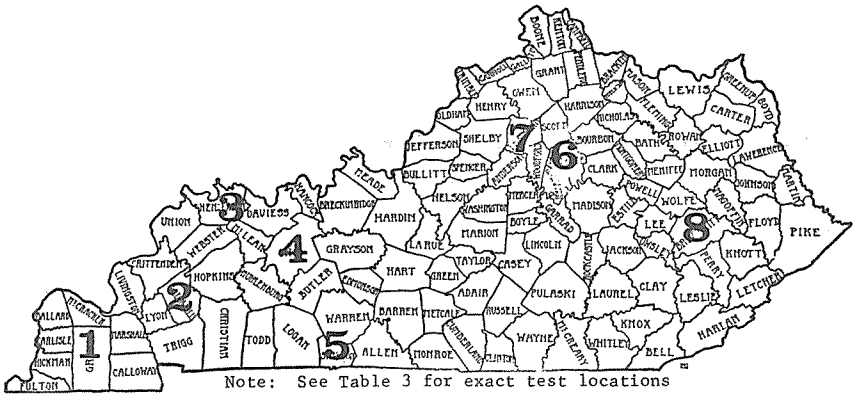
UNIVERSITY OF KENTUCKY • COLLEGE OF AGRICULTURE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY • LEXINGTON

TESTING LOCATIONS OF THE 1970
KENTUCKY HYBRID CORN PERFORMANCE TRIALS



Note: See Table 3 for exact test locations

ACKNOWLEDGMENTS

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Clifton Taylor, Area Extension Agent, Franklin.
George Armstrong, Superintendent, Robinson Substation, Quicksand.
Dr. A. S. Williams, U. K. Department of Plant Pathology, Lexington.

Table 21. 1970 Southern Corn Leaf Blight and Grain Quality Ratings.

Hybrid	Southern Corn Leaf Blight* 8-11-70	Southern Corn Leaf Blight* 9-2-70	Grain Quality**
Yellow			
Dekalb XL45	6.0	8.9	1.8
S.S. 720	6.0	9.0	2.1
Trojan TXS-112	6.0	9.0	1.5
P.A.G. SX-53	5.5	6.4	1.5
Funk's G-4333	4.9	7.0	1.5
S.S. 865	6.5	8.7	2.1
P.A.G. SX-93	7.0	9.0	2.1
Indep. S&W SS-400	5.9	8.5	1.8
Dekalb XL44	4.8	6.9	1.2
N.-K. PX-616	4.7	9.0	1.3
T-E Cashmaker	6.0	8.7	1.9
Meacham's MX-30Y	4.3	8.7	1.5
Pioneer 3571	4.5	5.5	1.0
S.S. 707	5.5	8.4	1.8
S.S. 750	5.7	8.0	1.5
N.-K. KT-680	5.0	7.5	1.6
Indep. S&W SD-600	5.5	8.5	1.6
Stew. Card. SX-47	5.7	8.2	1.5
Princeton SX-823	5.9	8.9	1.4
Trojan TXS-116	6.9	9.0	2.2
Princeton SX-803	5.7	8.9	2.0
K.A.E.S. Ky 105	6.4	7.8	2.2
Pioneer 3516	3.5	5.9	1.0
Migro M-44SX	6.7	8.9	1.7
Migro M-750	4.9	6.9	1.7
S.S. 840	5.0	7.0	1.4
Stull's 747YSP	5.9	7.4	1.8
T-E 6916	4.5	8.2	1.5
Trojan TXS-122	4.2	7.5	1.4
Meacham's MX-40Y	4.7	7.9	1.5
Schenk SS-88A	5.7	7.5	1.7
Pioneer 3369A	2.9	4.0	1.0
Trojan TXS-121	4.0	7.9	1.5
N.-K. PX-678	1.5	2.8	1.0
T-E E-20-Y-A	4.7	7.4	1.7
P.A.G. SX-17	5.5	5.8	1.3
McNair X210V	5.5	7.7	1.6
Dekalb XL81	3.9	5.4	1.0
Dekalb XL66	3.3	5.4	1.0
Stull's 807A^{+}SX	4.5	7.0	1.4
Funk's G4550	4.7	5.8	1.2
Pioneer 3308	3.3	3.9	1.0
Stull's 808SX	4.7	7.7	1.3
Stull's 720ASX	4.2	7.5	1.3
Funk's G4697	3.5	5.7	1.1
Pioneer 3196	2.5	3.7	1.1
P.A.G. SX-39	2.0	3.5	1.0
Dekalb XL85	3.3	4.9	1.0
Funk's G5757	4.5	5.2	1.2
P.A.G. SX-68	4.7	5.0	1.2
Funk's G4761	5.4	5.4	1.5
Yellow Average	4.9	7.0	1.5

Table 20. Maize Dwarf Mosaic Virus Test, Normal Population, Frankfort, Kentucky. 1969.

Hybrid	Yield Bu/A	Avg % Moist.	% Stalk Lodged	Avg % Stand	M.D.M. Rating 1969	1968	1967
Yellow							
Funk's 23413	95.1	19.8	18.7	65.6	2.0		
Pioneer 3188	47.2	16.2	8.8	75.0	3.0		
Dekalb 1006	75.7	22.9	15.7	66.7	3.3		
G. Ac. VR-20Y	85.3	17.6	6.1	78.1	3.7	5.2	3.0
Ky 105	39.6	17.6	38.8	67.7	3.7	4.2	1.2
Princeton 875M	47.4	17.7	10.9	68.7	4.0		
Trojan C. F. Exp. 2709	56.3	18.6	6.3	78.1	4.0		
Excel E-944	56.6	20.2	7.8	65.6	4.0		
P.A.G. SX-17	45.1	16.2	12.1	53.1	4.3		
Stull's 307Y	64.4	17.4	7.1	71.9	4.3		
Funk's G4761	80.4	19.4	5.9	70.8	4.3	3.0	
Stull's Exp. 1808	47.6	16.1	13.4	78.1	4.7		
P.A.G. 439	48.2	19.1	9.5	67.7	4.7		
Schenk's SS-75A	38.0	16.9	7.0	60.4	5.0	6.2	
Pioneer 3191	40.9	17.9	12.8	65.6	5.3		
Funk's G5757	46.3	19.1	21.7	54.2	5.3	4.2	
S.S. 866	47.3	20.9	9.7	75.0	5.3	4.0	1.7
Stull's 807A SX	24.8	17.1	23.7	59.4	5.7		
Pioneer 3369A	36.3	16.7	23.5	74.0	6.0	5.2	
S.S. 865	37.8	17.4	18.4	72.9	6.0		
Schenk's SS-88A	48.9	18.5	11.9	69.8	6.0		
Stull's 720SX	29.0	16.2	24.2	64.6	6.3	5.3	
Excel E-8244	18.9	17.8	51.3	65.6	6.3		
S.S. 720	26.0	16.3	40.4	63.5	7.0	6.5	
Excel E-71X	24.2	16.6	38.4	53.1	7.0		
Trojan C. F. 116	23.1	19.1	17.3	67.7	7.0		
S.S. 750	30.6	16.2	36.1	63.5	7.3		
Yellow Average	46.7	18.0	18.4	67.3	5.0	4.7	2.0
White							
G. Ac. VR-20W	80.4	22.5	5.8	66.7	3.0		
Pioneer 511A	65.5	20.5	11.7	65.6	4.0	3.8	
Schenk's S-96W	51.3	19.1	3.2	74.0	4.3	4.8	2.5
Meacham's MX-75W	67.3	19.6	8.1	72.9	4.7	4.7	3.6
Dekalb 999W	69.2	20.0	9.0	79.2	4.7	4.3	
Ky 5921W	65.1	18.7	12.7	67.7	5.0	4.3	3.0
S.S. 935W	51.2	20.4	6.2	67.7	5.3	4.5	3.4
Stull's 500W	50.9	18.0	19.9	78.1	6.7	4.3	
Stull's 400W	40.6	20.3	20.3	66.7	7.0		
White Average	60.2	19.9	10.8	70.9	5.0	4.4	3.3
Grand Average	53.4	19.0	14.6	69.1	5.0	4.6	2.6

LIST OF TABLES

KENTUCKY HYBRID CORN

PERFORMANCE TEST IN 1970

C. G. Poneleit and K. O. Evans

INTRODUCTION

The objective of the Kentucky 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.

In addition to the crop hazards expected during a normal crop season, the 1970 Kentucky corn crop was attacked by a devastating new race of Southern Corn Leaf Blight (Helminthosporium maydis). Summarized under the next major heading are some of the points that each corn grower should consider before purchasing seed corn for 1971.

SOUTHERN CORN LEAF BLIGHT

Occurrence and Symptoms

The new race of Helminthosporium maydis was first diagnosed in Kentucky during June 1970. It is extremely pathogenic on plants containing the Texas male-sterile cytoplasm. The disease is first noticed as light green flecks on the leaves; each of which eventually forms brownish lesion that can enlarge to ½ inch long. Under ideal conditions the lesions will cover the entire leaf surface, causing death of susceptible plants.

Since the disease is likely to be a problem in 1971 also and since the best method of control is the use of resistant hybrids (those that do not have Texas male-sterile cytoplasms), the following suggestions should be used when buying seed for 1971.

Recommendations for 1971 Seed Corn Purchases

The University of Kentucky Agricultural Experiment Station recommends that seed corn for 1971 be purchased in the following order of priority:

1. A hybrid with 100% normal cytoplasm (N) that has performed well in past years' tests.
2. A hybrid with a blend of normal and Texas male-sterile cytoplasms (B) that has performed well in past years' tests.
3. F_2 or second generation seed of a proven normal cytoplasm hybrid.

These recommendations are based on the observations that susceptibility to Southern Leaf Blight of corn is associated with the

Table 19. Maize Dwarf Mosaic Virus Test, Normal Population, Frankfort, Ky. 1970.

Hybrid	Yield Bu/A	Avg % Moist.	% Stalk Lodged	Average % Stand	M.D.M. Rating 7-8-70	M.D.M. Rating 8-19-70
Yellow						
Pioneer 3147	75.5	23.7	20.4	92.7	3.0	1.3
Pioneer X8445	110.7	23.6	13.3	94.8	3.7	1.7
Stull 907Y SP	70.2	24.1	27.8	85.4	4.3	2.3
Trojan TX 6753	17.1	19.0	33.7	84.4	4.2	2.7
Trojan TXS 6772	29.3	22.3	18.9	82.3	4.0	2.7
P.A.G. SX-17	40.8	22.1	47.1	82.3	5.2	3.3
Funk 23413	40.3	22.3	11.9	87.5	3.8	3.7
Trojan TX6593	13.6	21.1	50.6	82.3	4.2	4.0
Funk G4761	32.1	21.2	23.6	90.6	3.7	4.0
Dekalb 1006	14.8	21.8	52.4	67.7	6.8	4.7
Pioneer 3188	20.7	18.8	41.6	90.6	6.2	5.0
Stull 307Y	15.7	19.1	52.3	93.7	6.0	5.0
Ky 105	15.6	19.4	28.8	83.3	5.7	5.0
Trojan TX 6833	9.6	21.8	20.2	82.3	7.7	5.3
Trojan TXS 7602	18.0	22.1	32.8	88.5	5.8	5.7
S.S. 866	20.5	18.1	40.1	90.6	5.3	5.7
Trojan TXS 6642	18.7	19.6	33.7	92.7	5.3	5.7
T.-E. VR-20-Y	18.1	19.2	38.1	85.4	5.3	6.0
Schenk SS-88A	5.1	17.8	47.4	79.2	6.7	6.3
Princeton 875M	12.4	20.1	39.2	84.4	4.8	6.7
McNair X210V	9.4	21.3	36.0	78.1	6.8	7.0
Yellow Average	29.0	20.9	33.8	85.7	5.2	4.5
White						
P.A.G. SX-90W	115.0	23.1	10.1	86.5	4.3	1.3
P.A.G. 644W	116.8	24.6	14.8	87.5	5.2	2.0
Funk 24963W	40.2	22.0	21.5	92.7	2.3	3.0
T.-E. VR-20-W	41.5	17.3	28.0	88.5	3.2	3.3
Pioneer 511A	51.7	23.3	33.5	91.7	6.8	3.7
Princeton 940	30.9	17.3	24.8	96.9	2.8	4.7
Schenk S-96W	21.9	19.5	32.0	84.4	5.5	5.0
Stull 550W	26.3	18.4	27.1	92.7	5.5	5.3
Princeton 960	29.6	18.2	19.8	84.4	6.7	5.3
Meacham MX-75W	11.1	18.3	16.7	81.2	6.0	5.7
Dekalb Exp. 901	18.5	21.3	44.9	81.2	6.3	5.7
Stull 700W SP	7.5	18.5	48.2	80.2	5.8	6.0
W.O. King K-70	24.1	18.4	22.7	91.7	5.8	6.0
Ky 5921W	14.3	20.9	47.5	82.3	7.5	6.3
Zimmerman 94W	24.3	21.1	28.7	80.2	6.5	6.3
White Average	38.2	20.1	28.0	86.8	5.4	4.6
Grand Average	32.8	20.6	31.4	86.1	5.2	4.5

Table 18. Annual Summary, Screening Test, Normal Population, Princeton and Lexington, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Northrup-King PX50	61.5	15.7	1.2	13.1	84.4
Trojan M-112	77.0	16.3	0.0	16.2	92.7
T-E Harvestmaster	63.2	16.5	2.4	22.6	79.7
Schenk SS-66	72.4	16.8	0.0	38.7	88.5
Northrup-King PX610	62.6	16.9	0.0	45.8	86.5
Migro M-720	63.0	17.5	1.3	43.7	94.3
Pioneer 3306	66.1	17.5	1.4	45.6	82.8
Trojan TXS-119	91.5	17.6	0.0	19.3	90.6
T-E Bonusmaker-S	74.3	17.7	0.6	35.4	87.5
Princeton SX-836	90.1	17.9	0.0	28.8	90.6
Princeton SX-850	118.9	18.1	1.2	16.5	85.9
A.C.C.O. UC4600	67.2	18.1	0.0	51.6	79.2
A.C.C.O. UC6000	69.1	18.2	0.0	48.0	91.7
Indep. S&W SS-800	69.2	18.4	6.4	36.1	88.5
K.A.E.S. Ky 105	56.8	18.9	9.2	49.3	82.3
Pioneer X8537	124.3	19.0	0.0	18.2	96.9
P.A.G. SX-98	87.8	19.4	0.0	27.0	95.3
Migro M-40SX	77.3	19.5	0.0	45.6	88.5
Funk's 2341J	106.0	19.8	1.3	16.8	89.6
Stull's 807SX	68.0	19.9	7.8	44.5	79.7
Princeton SX-650	97.6	20.1	0.0	16.8	90.1
Pioneer 3334	120.0	20.1	0.0	9.7	91.1
Schenk SS-X8	79.4	20.3	0.0	51.7	94.3
T-E Mintmaker	86.1	20.7	4.0	36.5	90.6
McNair Exp. 7090	49.7	22.1	0.0	68.7	95.8
Princeton SX-804	63.6	22.3	6.0	61.4	96.4
Princeton 1006	59.9	23.3	0.0	59.9	91.1
P.A.G. 492	96.9	24.0	2.1	15.9	84.4
Trojan TXS-120	106.2	24.5	0.0	15.1	76.0
Yellow Average	80.2	19.2	1.5	34.4	88.5

Table 18. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
White					
Princeton 960	65.2	17.8	1.2	38.0	94.8
Princeton 940	63.6	18.2	0.0	33.6	90.1
Migro M-77SX	47.5	19.1	0.0	57.7	91.1
W.O. King K-70	59.6	19.2	0.0	38.6	91.1
Meacham's MX-50W	45.8	19.2	0.0	57.7	85.9
Zimmerman 94W	67.1	20.2	0.0	42.3	76.0
Schenk SS-98W	53.6	20.3	2.0	46.5	83.9
K.A.E.S. Ky 592IW	63.8	20.8	3.2	51.6	91.1
Meacham's MX-75W	52.3	21.6	0.0	32.6	91.1
P.A.G. 644W	119.4	22.0	1.1	29.9	92.2
Stull's 700WSP	45.3	22.0	13.1	59.1	79.2
Funk's G508W	104.5	22.0	1.6	25.9	87.0
Schenk SS-101W	109.2	24.6	0.0	20.5	78.6
White Average	69.0	20.5	1.7	41.1	87.1
Grand Average	74.6	19.8	1.6	37.8	87.8

Texas male-sterile cytoplasm. Most normal cytoplasm hybrids appear resistant to this disease. Also, the 1970 test results presented in this report indicate that at least some blends approach the resistance level of completely normal cytoplasm hybrids.

F_2 or second generation seed has been given the third priority position because of the known reduction in yield potential of this type of seed. This yield reduction is independent of disease resistance and for 4X, 3X, and 2X hybrids is expected to average about 20, 25, and 30%, respectively. However, these figures are only averages based on previous studies of other hybrids. Actual yield reductions of individual hybrids could be much more severe.

Seed Labeling Requirements

All seed corn sold in Kentucky for the 1971 season must be labeled as to type of cytoplasm according to the Temporary Labeling Requirements for Corn Seed which was issued by the University of Kentucky, College of Agriculture, Division of Regulatory Services on November 10, 1970. These requirements state that seed corn shall show the identity and percentage of the cytoplasm in the seed lot on the front of the analysis tag or label. The symbols N, T, and B will be used to indicate 100% normal cytoplasm, 100% Texas male-sterile cytoplasm, and a mixture of normal and Texas male-sterile cytoplasms, respectively. The word, detasseled, does not guarantee that a hybrid will have normal cytoplasm and therefore cannot be accepted as assurance that a hybrid will have resistance to Southern Corn Leaf Blight.

If you have further questions about Southern Corn Leaf Blight or other items discussed in this report, please contact your County Agricultural Extension Agent.

TESTING PROCEDURE

Test procedures for 1970 were similar to those used in 1969 and are described in following portions of the text.

Selection of Hybrids

Ky 105 and Ky 592IW (Table 1) were included as check varieties. The commercial hybrids shown in Table 2 were selected from those being marketed in Kentucky. The hybrids included in the performance test were recommended by independent groups: (1) a committee of farmers with broad interests throughout the state and (2) the hybrid corn companies. The final selection of entries was made by the test personnel and the state grains specialist. Seed was obtained from dealers and processors throughout the state.

Following each entry in Table 2 are the letter(s) A, B, or C which indicate whether the hybrid was included in the performance test (7 locations), the preliminary screening test (2 locations), the MDM virus test (1 location), or a combination of 2 or 3 of these.

Location of Tests

The 1970 performance test locations were identical to the 1969 test locations. Each location sampled a different soil and climatic area of the state. The map on page 2 shows the location and Table 3 shows pertinent agronomic information for each test. The Lexington and Princeton locations had a normal and high population test as well as a screening test, which was initiated in 1970 to help identify promising additions to the larger performance test. The other test sites had only the normal population performance tests.

The Frankfort test site was specifically chosen for the presence of maize dwarf mosaic virus. The hybrid corn companies were asked to nominate only those hybrids that were known to have virus resistance.

Cultural Practices

The seedbed was prepared by conventional tillage methods at all locations. Fertilizer was applied as indicated by soil tests. 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. Information presented in Tables 4 through 20 is adjusted for block and replication differences when shown applicable by statistical analyses.

Planting

All plots 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. Each hybrid plot consisted of three side-by-side rows. The two outer rows bordered the middle row from competitive effects of neighboring hybrids and were not used for collection of data. The row width at all locations was 38 inches. Population was varied by altering combinations of row length and number of kernels per row.

Harvesting

All plots were harvested with a conventional tractor-mounted, one-row picker-sheller. The middle row of the 3-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 and recorded on the harvesting equipment with a portable scale and moisture meter. Later, acre yields were calculated and adjusted to

Table 17. Annual Summary, Screening Test, Normal Population, Lexington, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Northrup-King PX50	68.6	15.8	0.0	11.9	87.5
T-E Harvestmaster	76.5	16.2	0.0	19.4	80.2
Trojan M-112	89.4	16.2	0.0	22.6	90.6
Schenk SS-66	102.6	16.8	0.0	43.2	91.7
T-E Bonusmaker-S	93.8	17.9	0.0	46.5	92.7
Migro M-720	75.0	18.0	0.0	54.7	96.9
Pioneer X8537	128.9	18.2	0.0	34.2	100.1
Princeton SX-850	122.5	18.4	0.0	21.5	86.5
Princeton SX-836	102.5	18.4	0.0	45.5	91.7
Pioneer 3306	86.9	18.5	0.0	59.7	87.5
Trojan TXS-119	98.8	19.1	0.0	31.6	91.7
Northrup-King PX610	74.5	19.1	0.0	44.6	87.5
Funk's 23413	121.3	19.3	0.0	25.9	92.7
A.C.C.O. UC4600	80.0	19.5	0.0	52.6	85.4
A.C.C.O. UC6000	81.8	19.9	0.0	44.3	95.8
Indep. S&W SS-800	75.7	20.3	0.0	49.5	92.7
T-E Mintmaker	105.1	21.5	0.0	55.6	89.6
K.A.E.S. Ky 105	72.3	21.6	0.0	75.5	92.7
Pioneer 3334	120.7	21.7	0.0	15.9	90.6
P.A.G. SX-98	99.2	21.7	0.0	39.8	96.9
Princeton SX-804	75.5	22.1	0.0	57.4	100.2
Schenk SS-X8	90.0	22.5	0.0	55.9	96.9
Migro M-40SX	83.0	22.6	0.0	67.2	83.3
Stull's 807SX	91.8	22.7	0.0	63.8	84.4
Princeton SX-650	94.9	22.7	0.0	28.2	86.5
McNair Exp. 7090	68.0	23.5	0.0	80.3	94.8
P.A.G. 492	91.3	25.0	0.0	28.2	85.4
Princeton 1006	76.5	25.7	0.0	68.9	90.6
Trojan TXS-120	104.0	27.8	0.0	18.6	82.3
Yellow Average	91.4	20.4	0.0	43.6	90.8

Table 17. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
White					
Princeton 960	87.3	18.5	0.0	59.8	93.7
W.O. King K-70	80.0	19.9	0.0	59.6	92.7
Princeton 940	74.5	19.9	0.0	49.7	91.7
Meacham's MX-50W	55.5	21.3	0.0	74.9	91.7
Migro M-77SX	58.9	21.7	0.0	73.4	95.8
K.A.E.S. Ky5921W	91.1	21.9	0.0	59.1	96.9
Schenk SS-98W	68.3	22.2	0.0	62.7	84.4
P.A.G. 644W	124.3	22.5	0.0	54.1	93.7
Stull's 700WSP	69.3	23.4	0.0	73.2	86.5
Meacham's MX-75W	71.4	24.0	0.0	53.1	95.8
Zimmerman 94W	75.7	24.0	0.0	57.1	80.2
Funk's G508W	103.6	25.1	0.0	38.7	88.5
Schenk SS-101W	103.2	26.3	0.0	31.4	88.5
White Average	81.8	22.4	0.0	57.5	90.8
Grand Average	88.4	21.0	0.0	47.9	90.8

Table 16. Annual Summary, Screening Test, Normal Population, Princeton, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Northrup-King PX610	50.7	14.7	0.0	47.1	85.4
Northrup-King PX50	54.4	15.5	2.4	14.3	81.2
K.A.E.S. Ky 105	41.4	16.2	18.4	23.0	71.9
Trojan TXS-119	84.2	16.2	0.0	7.1	89.6
Migro M-408X	71.6	16.4	0.0	24.0	93.7
Trojan M-112	64.5	16.4	0.0	9.9	94.8
Pioneer 3306	45.2	16.5	2.8	31.5	78.1
A.C.C.O. UC6000	56.3	16.5	0.0	51.7	87.5
Indep. S&W SS-800	62.6	16.6	12.7	22.7	84.4
Schenk SS-66	42.3	16.7	0.0	34.1	85.4
A.C.C.O. UC4600	54.3	16.7	0.0	50.6	72.9
T-E Harvestmaster	49.8	16.8	4.8	25.7	79.2
Migro M-720	51.1	17.0	2.6	32.7	91.7
Stull's 807SX	44.1	17.1	15.6	25.1	75.0
P.A.G. SX-98	76.4	17.1	0.0	14.3	93.7
Princeton SX-836	77.7	17.3	0.0	12.1	89.6
Princeton SX-650	100.3	17.5	0.0	5.5	93.7
T-E Bonusmaker-S	54.8	17.6	1.2	24.3	82.3
Princeton SX-850	115.3	17.8	2.3	11.5	85.4
Schenk SS-X8	68.9	18.2	0.0	47.5	91.7
Pioneer 3334	119.2	18.6	0.0	3.4	91.7
Pioneer X8537	119.8	19.8	0.0	2.3	91.7
T-E Mintmaker	67.0	19.9	8.0	17.3	91.7
Funk's 23413	90.6	20.3	2.7	7.7	86.5
McNair Exp. 7090	31.4	20.6	0.0	57.0	96.9
Princeton 1006	43.2	21.0	0.0	51.0	91.7
Trojan TXS-120	108.3	21.2	0.0	11.6	69.8
Princeton SX-804	51.7	22.5	12.0	65.4	87.5
P.A.G. 492	102.4	23.0	4.2	3.6	83.3
Yellow Average	68.9	18.0	3.1	25.3	86.1

Table 16. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
White					
Zimmerman 94W	58.4	16.4	0.0	27.5	71.9
Migro M-77SX	36.1	16.5	0.0	42.0	86.5
Princeton 940	52.6	16.5	0.0	17.5	88.5
Meacham's MX-50W	36.1	17.1	0.0	40.4	80.2
Princeton 960	43.1	17.2	2.3	16.3	95.8
Schenk SS-98W	38.9	18.3	4.0	30.2	83.3
W.O. King K-70	39.2	18.4	0.0	17.5	89.6
Funk's G508W	105.4	19.0	3.2	13.2	85.4
Meacham's MX-75W	33.2	19.3	0.0	12.0	86.5
K.A.E.S. Ky5921W	36.5	19.8	6.4	43.9	85.4
Stull's 700WSP	21.4	20.5	26.1	44.9	71.9
P.A.G. 644W	114.6	21.4	2.2	5.7	90.6
Schenk SS-101W	115.2	22.9	0.0	9.6	68.7
White Average	56.2	18.7	3.4	24.7	83.4
Grand Average	65.0	18.2	3.2	25.1	85.3

No. 2 corn at 15.5% moisture. Only grain picked up by the harvesting equipment appears in the yield column of the following tables. Dropped or missed ears were not gleaned from the plot.

Maize Dwarf Mosaic Virus

Each hybrid in the Frankfort test (Tables 19 and 20) was rated for virus resistance on a 1-9 scale. A rating of 1 indicates complete resistance to the virus, while a rating of 9 indicates extreme susceptibility. The virus rating should be used in conjunction with yield performance for evaluating hybrids in the Frankfort test since the yields of the hybrids were noticeably influenced by severe lodging which may or may not have been caused by the virus disease.

Southern Corn Leaf Blight also attacked the hybrids in the virus test. Several of the hybrids are new and consequently were made by hand pollinations of normal cytoplasm stocks. These varieties undoubtedly had an extra yield advantage over the hybrids that had the leaf blight susceptible T cytoplasm. For this reason yield and virus ratings may be difficult to interpret.

Southern Corn Leaf Blight

Dr. A. S. Williams, State Agricultural Extension Plant Pathologist, rated the hybrids for leaf blight resistance at the Henderson, Hartford, and Franklin locations. Rating of visual leaf blight symptoms were made on a 0-9 scale with 0 indicating resistance (none or very few Southern Corn Leaf Blight lesions) and 9 indicating extremely susceptible (the entire plant was necrotic or dead). A summary of these ratings is presented in Table 21.

RESULTS

Due to the occurrence of a severe epiphytotic of Southern Leaf Blight of corn (Helminthosporium maydis), presentation of the 1970 data has been changed from past years' format. Multiple year averages have been omitted since we feel that averaging data from years that had no disease with data from 1970 would be of little value. This decision was based on the knowledge that most of the hybrids tested in 1970 possessed the susceptible Texas male-sterile cytoplasm and that much of the hybrid seed for use in 1971 and 1972 will contain the more resistant normal cytoplasm. However, several hybrids tested in 1970 were 100% N cytoplasm or a blend of N and T cytoplasms and the data presented for these varieties will be of interest.

We have also included data from preliminary screening tests at two locations which were initiated in 1970 to screen new entries for possible addition to our regular tests. These data are included since some of the hybrids, although they may be in short supply, had normal cytoplasms and could provide additional resistant seed for 1971.

In addition to the 1970 annual summaries for each location, we have included the 1969 summary over all non-virus locations and the 1969 MDM virus test summary. This is done because most of the hybrids tested in 1970 had the susceptible Texas male-sterile cytoplasm and the 1970 data will not be an accurate assessment of their true yield potential if they can be produced and sold as the more resistant normal cytoplasm versions for 1971. Therefore, the 1969 averages will be helpful when deciding among several hybrids that were susceptible in 1970 (T cytoplasm) but may be resistant for 1971 (N or B cytoplasm).

The plots in 1969 and 1970 were planted at 20,000 and 26,700 kernels per acre for the normal and high populations respectively and were not thinned. The percent stand indicated in each annual table, when multiplied by the number of kernels planted per acre, will be the actual plant population of that hybrid. A percent stand less than 100 would indicate some loss of plants owing to incomplete germination, seedling diseases or other factors. However, a stand reduction of 15% is not uncommon.

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 a hybrid grown at one location and population with another hybrid grown at a different location and population.

Table 1. Pedigrees of Experiment Station Hybrids Tested in 1970.

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

Table 15. Annual Summary, High Population, Lexington and Princeton, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
P.A.G. SX-53	93.0	15.6	6.5	12.9	89.8
N.-K. PX-616	53.9	15.6	1.1	25.4	91.1
Trojan TXS-112	66.9	15.9	13.2	12.1	81.2
S.S. 707	71.9	16.0	7.5	20.6	92.4
Dekalb XL45	67.2	16.1	1.3	11.9	82.0
T-E Cashmaker	65.9	16.2	2.4	26.3	86.7
S.S. 720	50.1	16.3	4.4	24.9	90.6
S.S. 865	48.0	16.4	3.9	25.9	83.1
Pioneer 3571	72.4	16.4	2.2	3.3	89.3
Migro M-750	51.5	16.5	3.9	25.9	91.1
N.-K. KT-680	41.9	16.6	0.9	13.4	91.4
Stew. Card. SX-47	54.2	16.7	5.8	18.4	89.1
S.S. 750	52.0	16.8	0.3	24.4	90.4
K.A.E.S. Ky 105	35.4	16.9	3.7	31.6	84.6
Indep. S&W SS-400	55.6	16.9	2.3	13.2	88.0
S.S. 840	43.0	17.0	2.6	23.0	89.6
N.-K. PX-678	59.0	17.0	0.9	9.5	92.2
Funk's G4333	73.4	17.1	3.3	17.7	90.1
Migro M-44SX	70.2	17.2	1.1	10.6	91.4
Dekalb XL44	80.1	17.2	4.2	4.8	91.4
Princeton SX-803	40.5	17.2	0.0	45.3	85.7
Meacham's MX-30Y	47.9	17.3	6.0	21.2	86.5
P.A.G. SX-93	59.3	17.4	0.0	14.4	94.0
Indep. S&W SD-600	45.4	17.5	0.7	17.9	87.8
Princeton SX-823	61.4	17.6	0.0	12.9	93.2
Pioneer 3308	67.7	17.7	0.8	22.3	95.3
Schenk SS-88A	37.9	17.8	0.0	40.9	91.9
Trojan TXS-116	51.2	17.9	1.6	15.7	87.0
Pioneer 3369A	80.8	18.0	0.0	20.8	90.9
T-E E-20-Y-A	45.5	18.1	2.1	24.2	88.3
Meacham's MX-40Y	67.3	18.1	0.3	18.3	90.9
P.A.G. SX-17	54.8	18.3	1.9	39.3	88.3
Pioneer 3516	61.7	18.3	0.6	27.1	86.5
Stull's 747YSP	36.3	18.4	3.9	33.1	89.6
Dekalb XL66	90.6	18.5	2.8	11.5	90.6
T-E 6916	66.8	18.5	0.5	7.7	92.2

Table 15. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Pioneer 3196	77.2	18.6	0.0	21.5	95.1
Trojan TXS-122	50.7	18.8	0.0	22.6	90.4
P.A.G. SX-39	64.4	18.8	0.0	15.3	84.1
Funk's G4697	61.4	19.0	2.8	25.1	87.2
Funk's G5757	56.8	19.2	1.6	12.3	83.6
Trojan TXS-121	43.8	19.2	1.3	20.6	89.1
Stull's 808SX	45.0	19.3	0.9	26.6	88.5
Dekalb XL81	72.7	19.4	0.0	10.8	93.2
Funk's G4761	64.5	19.6	0.7	9.8	90.9
Stull's 807A+SX	48.4	19.7	0.7	28.2	92.4
McNair X210V	51.6	19.8	1.6	27.4	83.3
Funk's G4550	62.4	20.1	0.0	15.7	87.2
Stull's 720ASX	43.1	20.5	0.3	29.6	89.3
Dekalb XL85	79.5	20.9	0.0	15.8	88.8
P.A.G. SX-68	47.3	22.9	0.0	38.4	89.3
Yellow Average	58.6	17.9	2.0	20.6	89.2
White					
Stull's 550W	41.9	17.4	6.0	26.5	90.6
King & Son K-60	44.7	17.5	0.3	36.9	89.3
Schenk S-96W	38.4	17.5	0.3	22.6	90.4
K.A.E.S. Ky 5921W	37.7	17.6	1.8	28.1	89.6
T-E M-20W	39.3	18.0	3.3	23.9	86.5
Princeton 990B	41.7	18.2	0.3	31.8	86.7
Meacham's M-7W	29.9	18.5	1.2	14.2	90.4
S.S. 935W	43.2	18.7	1.8	33.8	89.6
Princeton 920A	36.2	18.9	0.8	21.4	90.6
Dekalb XL390W	34.1	19.6	0.6	33.5	86.5
P.A.G. SX-90W	63.9	19.9	0.0	35.6	91.9
Pioneer 511A	58.8	20.3	1.8	25.5	89.3
Funk's G4895W	33.4	24.4	1.7	8.8	89.6
White Average	41.8	19.0	1.5	26.4	89.3
Grand Average	50.2	18.2	1.9	21.8	89.2

Table 14. Annual Summary, High Population, Lexington, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
P.A.G. SX-53	105.3	14.7	0.0	10.8	92.2
Dekalb XL45	76.0	15.1	0.0	4.7	84.9
N.-K. PX-678	62.1	15.1	0.0	13.1	95.8
Pioneer 3571	76.3	15.3	0.0	2.7	92.2
N.-K. PX-616	67.6	15.3	0.0	31.5	88.5
Funk's G4333	88.9	15.6	0.0	16.9	93.2
S.S. 865	66.8	15.8	0.0	24.4	83.3
N.-K. KT-680	52.4	15.9	0.0	14.6	93.7
Trojan TXS-112	85.3	15.9	0.0	14.9	83.9
T-E Cashmaker	89.7	16.0	0.0	17.2	87.5
S.S. 707	91.7	16.1	0.0	17.5	94.3
Dekalb XL44	69.5	16.1	0.0	6.1	91.1
Indep. S&W SS-400	66.2	16.1	0.0	11.2	88.0
S.S. 720	67.9	16.2	0.0	18.2	90.1
Pioneer 3308	63.3	16.3	0.0	28.9	94.3
S.S. 750	72.7	16.4	0.0	27.2	93.7
Migro M-750	64.7	16.4	0.0	26.3	92.7
Princeton SX-823	77.0	16.5	0.0	16.9	93.7
P.A.G. SX-17	55.6	16.6	0.0	49.3	90.1
P.A.G. SX-39	61.5	16.6	0.0	29.2	83.9
K.A.E.S. Ky 105	48.5	16.7	0.0	31.2	88.0
Migro M-44SX	94.7	16.8	0.0	2.2	94.3
Meacham's MX-30Y	57.1	16.9	0.0	22.9	90.6
Dekalb XL66	107.4	17.0	0.0	10.9	95.8
Indep. S&W SD-600	56.9	17.0	0.0	15.3	89.1
Stew. Card. SX-47	61.0	17.2	0.0	22.3	95.8
Pioneer 3196	67.7	17.2	0.0	34.5	99.5
Princeton SX-803	57.7	17.3	0.0	18.6	85.4
Pioneer 3369A	57.0	17.3	0.0	32.8	92.2
Pioneer 3516	60.2	17.5	0.0	27.2	91.7
S.S. 840	55.1	17.5	0.0	15.3	90.6
Meacham's MX-40Y	75.1	17.9	0.0	12.5	91.7
Schenk SS-88A	49.5	18.0	0.0	39.6	92.2
P.A.G. SX-93	77.8	18.1	0.0	7.1	94.8
Trojan TXS-116	68.9	18.1	0.0	6.1	93.2
Dekalb XL81	69.6	18.2	0.0	8.9	94.8

Table 14. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Stull's 747YSP	43.2	18.2	0.0	42.9	88.0
Funk's G5757	68.8	18.3	0.0	16.4	85.4
T-E E-20-Y-A	51.7	18.4	0.0	23.2	92.7
Funk's G4761	83.1	18.6	0.0	12.2	94.3
Funk's G4697	73.2	18.8	0.0	23.3	89.6
Trojan TXS-122	64.4	18.8	0.0	28.8	88.5
Trojan TXS-121	47.8	19.1	0.0	20.2	92.7
T-E 6916	77.0	19.4	0.0	6.8	92.2
McNair X210V	67.7	19.5	0.0	31.2	86.5
Funk's G4550	68.1	19.7	0.0	12.4	86.5
Stull's 808SX	51.3	19.8	0.0	29.8	91.1
Stull's 807A+SX	57.4	20.3	0.0	30.2	95.3
Dekalb XL85	68.6	20.5	0.0	21.1	89.1
Stull's 720ASX	58.7	20.6	0.0	36.9	88.0
P.A.G. SX-68	42.7	21.5	0.0	39.8	88.0
Yellow Average	67.6	17.4	0.0	20.9	90.9
White					
P.A.G. SX-90W	57.1	16.5	0.0	55.5	92.2
King & Son K-60	50.7	17.4	0.0	34.9	92.2
Schenk S-96W	40.6	17.5	0.0	21.9	95.8
Stull's 550W	54.1	17.8	0.0	31.8	94.8
Pioneer 511A	40.0	17.8	0.0	30.7	94.3
K.A.E.S. Ky 5921W	47.2	17.9	0.0	23.7	90.6
Princeton 990B	49.0	18.4	0.0	25.2	86.5
T-E M-20W	42.4	18.7	0.0	31.9	89.6
Meacham's M-7W	37.0	19.3	0.0	12.4	91.7
Dekalb XL390W	44.4	19.8	0.0	42.1	89.1
Princeton 920A	39.7	20.0	0.0	16.8	96.4
S.S. 935W	46.6	20.2	0.0	35.6	92.2
Funk's G4895W	28.1	23.1	0.0	11.7	92.7
White Average	44.4	18.8	0.0	28.8	92.1
Grand Average	62.9	17.7	0.0	22.5	91.1

Table 2. Hybrids Tested in 1970

Hybrid	Test*	Color	Cross**	Source of Hybrid
A.C.C.O. UC4600	C	Yellow	2X	ACCO Seed, Div. of
UC6000	C	"	2X	Anderson-Clayton Co.
				Belmond, Iowa
Dekalb XL44	A	Yellow	2X	Dekalb Agricultural
XL45	A	"	2X	Association
XL66	A	"	2X	Dekalb, Ill.
XL81	A	"	2X	
XL85	A	"	2X	
XL390W	A	White	3X	
1006	B	Yellow	4X	
Exp. 901	B	White	--	
Funk's G4333	A	Yellow	2X	Funk Bros. Seed Co.
G4550	A	"	2X	1300 W. Washington St.
G4697	A	"	3X	Bloomington, Ill.
G4761	A,B	"	3X	
G5757	A	"	4X	
G508W	C	White	4X	
23413	B,C	Yellow	2X	
24963W	B	White	3X	
G4895W	A	"	3X	
Indep. S&W SS400	A	Yellow	2X	Independent Seed & Wire, Inc.
SD600	A	"	4X	4601 Jennings Lane
SS800	C	"	4X	Louisville, Ky.
K.A.E.S. Ky 105	A,B,C	Yellow	4X	University of Kentucky
Ky 5921W	A,B,C	White	4X	Agri. Exp. Station
				Lexington, Ky.
King, W.O. & Son K-60	A	White	4X	W. O. King & Son
K-70	B,C	"	4X	Hopkinsville, Ky.
McNair X210V	A,B	Yellow	2X	McNair Seed Co.
Exp. 7090	C	"	2X	P.O. Box 706
				Laurinburg, N. C.
Meacham's MX-7W	A	White	3X	Meacham's Hybrids
MX-30Y	A	Yellow	2X	Route 3
(MX-15Y) MX-40Y	A	"	2X	Morganfield, Ky.
MX-50W	C	White	2X	
MX-75W	B,C	"	2X	

(continued)

Table 2. (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
Schenk SS-X8	C	Yellow	2X	Chas. H. Schenk & Sons
SS-66	C	"	3X	Route 4
SS-88A	A,B	"	3X	Vincennes, Ind.
SS-98W	C	White	3X	
SS-101W	C	"	2X	
S-96W	A,B	"	4X	
So. States 707	A	Yellow	2X	Southern States Coop., Inc.
720	A	"	MX	Seed & Farm Supply Division
750	A	"	MX	Richmond, Va.
840	A	"	4X	
865	A	"	4X	
866	B	"	4X	
935W	A	White	4X	
Stew. Card. SX47	A	Yellow	2X	Steward Hybrids, Inc. Route 1 Princeville, Ill.
Stull's 550W	A,B	White	4X	Stull Bros. Inc.
700WSP	B,C	"	3X	Sebree, Ky.
720ASX	A	Yellow	2X	
747YSP	A	"	3X	
807SX	C	"	2X	
807A+SX	A	"	2X	
808SX	A	"	2X	
907YSP	B	"	3X	
307Y	B	"	4X	
Taylor-Evans Bonusmaker-S	C	Yellow	2X	Taylor-Evans Seed Co.
Cashmaker	A	"	2X	Golden Acre Hybrids
Harvestmaker	C	"	4X	Tulia, Texas
Mintmaster	C	"	2X	
E-20-Y-A	A	"	4X	
M-20W	A	White	4X	
6916	A	Yellow	2X	
VR-20-Y	B	"	4X	
VR-20-W	B	White	4X	

(continued)

Table 13. Annual Summary, High Population, Princeton, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Trojan TXS-112	48.6	16.0	26.5	9.2	78.6
S.S. 707	52.1	16.0	15.0	23.7	90.6
N.-K. PX-616	40.2	16.0	2.2	19.3	93.7
Stew. Card. SX-47	47.5	16.2	11.7	14.4	82.3
T-E Cashmaker	42.0	16.3	4.9	35.4	85.9
S.S. 720	32.2	16.4	8.8	31.5	91.1
S.S. 840	30.9	16.5	5.3	30.8	88.5
P.A.G. SX-53	80.7	16.5	13.0	14.9	87.5
Migro M-750	38.2	16.5	7.8	25.6	89.6
P.A.G. SX-93	40.8	16.8	0.0	21.7	93.2
S.S. 865	29.3	17.0	8.0	27.6	82.8
Dekalb XL45	58.3	17.1	2.6	19.2	79.2
K.A.E.S. Ky 105	22.4	17.1	7.3	31.9	81.2
Princeton SX-803	23.4	17.2	0.0	72.0	85.9
S.S. 750	31.3	17.3	0.5	21.6	87.0
N.-K. KT-680	31.5	17.3	1.8	12.2	89.1
Schenk SS-88A	26.4	17.6	0.0	42.2	91.7
Pioneer 3571	68.6	17.6	4.3	3.8	86.5
Migro M-44SX	45.8	17.6	2.3	18.9	88.5
T-E 6916	56.5	17.7	1.1	8.6	92.2
T-E E-20-Y-A	39.3	17.7	4.2	25.2	83.9
Meacham's MX-30Y	38.7	17.7	12.0	19.3	82.3
Indep. S&W SS-400	44.9	17.8	4.6	15.2	88.0
Trojan TXS-116	33.6	17.8	3.1	25.2	80.7
Indep. S&W SD-600	33.9	18.0	1.4	20.8	86.5
Meacham's MX-40Y	59.5	18.3	0.6	24.2	90.1
Dekalb XL44	90.8	18.4	8.4	3.4	91.7
Funk's G4333	57.8	18.6	6.6	18.6	87.0
Stull's 747YSP	29.4	18.7	7.7	23.4	91.1
Pioneer 3369A	104.6	18.7	0.0	8.8	89.6
Stull's 808SX	38.7	18.8	1.8	23.5	85.9
Trojan TXS-122	37.1	18.8	0.0	16.4	92.2
Princeton SX-823	45.8	18.8	0.0	8.9	92.7
N.-K. PX-678	55.8	18.8	1.8	5.9	88.5
Stull's 807A+SX	39.4	19.1	1.3	26.1	89.6
Pioneer 3308	72.1	19.2	1.7	15.6	96.4

Table 13. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Pioneer 3516	63.2	19.2	1.3	27.0	81.2
Funk's G4697	49.5	19.2	5.5	26.8	84.9
Trojan TXS-121	39.8	19.3	2.6	21.1	85.4
Dekalb XL66	73.7	19.9	5.6	12.2	85.4
P.A.G. SX-17	54.1	19.9	3.7	29.4	86.5
Funk's G5757	44.7	20.0	3.1	8.3	81.8
Pioneer 3196	86.7	20.1	0.0	8.5	90.6
McNair X210V	35.5	20.2	3.3	23.7	80.2
Stull's 720ASX	27.4	20.4	0.6	22.2	90.6
Funk's G4550	56.7	20.6	0.0	19.0	88.0
Funk's G4761	45.9	20.6	1.4	7.5	87.5
Dekalb XL81	75.9	20.7	0.0	12.5	91.7
P.A.G. SX-39	67.2	21.0	0.0	1.3	84.4
Dekalb XL85	90.4	21.3	0.0	10.4	88.5
P.A.G. SX-68	51.8	24.2	0.0	36.9	90.6
Yellow Average	49.6	18.4	4.0	20.2	87.4
White					
Stull's 550W	29.7	17.1	12.1	21.2	86.5
K.A.E.S. Ky 5921W	28.2	17.3	3.6	32.6	88.5
T-E M-20W	36.2	17.3	6.8	16.0	83.3
S.S. 935W	39.9	17.3	3.5	32.0	87.0
Schenk S-96W	36.1	17.4	0.6	23.4	84.9
King & Son K-60	38.7	17.6	0.6	38.9	86.5
Princeton 920A	32.8	17.8	1.7	26.0	84.9
Meacham's M-7W	22.7	17.8	2.3	16.1	89.1
Princeton 990B	34.4	18.1	0.6	38.4	87.0
Dekalb XL390W	23.9	19.5	1.3	24.9	83.9
Pioneer 511A	77.7	22.8	3.6	20.2	84.4
P.A.G. SX-90W	70.7	23.3	0.0	15.7	91.7
Funk's G4895W	38.8	25.8	3.5	6.0	86.5
White Average	39.2	19.2	3.1	24.0	86.5
Grand Average	47.5	18.6	3.8	21.0	87.2

Table 12. Annual Summary, Normal Population, All Non-Virus Locations. 1969.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL45A	111.9	12.5	0.4	7.0	88.2
P.A.G. SX53	121.9	13.0	0.0	6.9	90.3
Funk's G4333	108.0	14.3	0.3	10.7	87.1
P.A.G. SX31	108.1	14.4	0.0	8.4	84.8
Trojan M-114	123.5	14.7	0.6	9.5	90.8
P.A.G. 399	116.6	14.9	0.3	12.2	88.1
Dekalb XL45	106.3	15.0	0.4	8.0	84.1
S.S. 720	122.1	15.1	0.5	10.6	93.9
Pioneer 3516	130.6	15.1	0.0	9.4	93.2
Pioneer 3564	106.5	15.1	0.2	11.3	89.0
Stew. Card. Exp. SX85	105.9	15.2	0.2	20.5	87.8
P.A.G. SX29	126.0	15.2	0.2	8.6	87.8
Princeton SX803	122.7	15.3	0.0	10.6	88.4
Trojan Exp. 2650	134.4	15.4	0.8	4.9	91.8
Schenk's SS-77A	109.0	15.5	0.3	9.1	85.6
Stull's 727SX	129.6	15.6	0.3	8.9	92.0
Stew. Card. SX47	123.1	15.6	2.0	10.2	88.7
S.S. 820S	127.4	15.8	1.2	10.5	90.9
Dekalb XL82	118.9	15.8	0.0	10.7	80.8
S.S. 750	129.2	15.9	0.0	10.2	91.2
G. Ac. Cashmaker	121.1	15.9	0.0	6.4	92.0
S.S. 865	123.5	16.1	0.9	12.8	92.6
P.A.G. 437	118.6	16.1	0.5	17.2	90.2
Pioneer 3196	132.3	16.2	0.0	6.9	89.7
Funk's G4595	118.7	16.2	0.8	7.2	88.2
Pioneer 3306	137.9	16.3	0.0	12.8	90.9
Migro M-750	125.3	16.3	1.5	12.0	87.6
Meacham's MX-10Y	123.4	16.3	0.9	8.1	93.7
Pioneer 3369A	151.6	16.4	0.5	7.4	92.1
Migro M-44-SX	120.6	16.4	0.6	6.0	90.8
Dekalb XL66	125.5	16.4	0.2	15.8	89.6
Pioneer 3308	141.0	16.5	0.0	8.1	92.6
Trojan C. F. 66	128.0	16.6	0.2	7.6	87.2
Ky. 105	119.3	16.6	1.4	10.2	93.9
Trojan C. F. 105	125.5	16.7	0.0	6.3	93.6
Excel E-71X	123.5	16.7	0.7	11.6	87.8
Princeton SX804	125.4	16.7	1.5	10.4	84.4
S.S. 860	123.6	16.8	1.1	11.9	91.2
G. Ac. E-20-Y-A	121.3	17.0	0.4	11.1	85.6
Funk's G4697	117.3	17.1	0.5	9.0	81.0
Schenk's SS-75A	129.1	17.3	0.3	10.9	91.1
Stull's 720SX	131.5	17.3	0.5	8.4	92.1
G. Ac. Exp. 6916	152.0	17.3	0.0	5.3	94.5
Stull's 807A SX	123.8	17.7	0.6	6.8	84.1
Funk's G5757	139.6	18.1	1.2	5.3	88.8
Funk's G4761	128.0	18.2	0.5	3.8	92.1
Meacham's MX-15Y	126.2	18.5	0.0	5.2	83.2
P.A.G. SX99	126.8	18.8	1.5	10.2	88.8
Dekalb XL85	136.9	18.8	0.0	16.5	93.5
Yellow Average	124.5	16.1	0.5	9.6	89.3
White					
Stull's 500W	122.9	16.7	0.8	16.1	91.7
Schenk's S-96W	124.6	17.1	0.3	9.3	93.9
S.S. 935W	131.5	17.3	0.8	10.0	90.3
W. O. King K-60	129.1	17.5	1.7	11.4	89.7
Ky. 5921W	124.5	17.5	1.3	7.9	88.1
G. Ac. M-20-W	125.1	17.5	0.9	8.9	88.8
Princeton 990B	132.5	18.2	1.2	11.3	90.5
Meacham's MX-50W	116.8	18.6	1.4	9.6	87.5
Princeton 920A	131.1	18.8	0.9	9.0	92.0
Stull's 800W	126.0	18.9	0.5	12.1	88.5
Dekalb XL390W	126.8	19.3	2.4	12.0	91.8
P.A.G. SX80W	126.6	19.5	0.6	11.1	87.5
Funk's G5830W	105.4	19.7	0.8	8.7	81.7
Pioneer 511A	129.4	19.9	1.3	11.8	89.9
Funk's 23441W	124.9	22.7	1.5	7.6	89.3
White Average	125.1	18.6	1.1	10.5	89.4
Grand Average	124.8	17.4	0.8	10.0	89.4

Table 12. (continued)

Table 2. (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
Migro M-40SX	C	Yellow	2X	Migro Hybrids
M-44SX	A	"	2X	Box 7
M-77SX	C	White	2X	Mitchell, Ind.
M-720	C	Yellow	4X	
M-750	A	"	4X	
Northrup-King PX50	C	Yellow	2X	Northrup-King & Co.
PX610	C	"	3X	1500 Jackson St. N. E.
PX616	A	"	3X	Minneapolis, Minn.
PX678	A	"	3X	
KT680	A	"	4X	
P.A.G. SX-17	A,B	Yellow	2X	P-A-G Division
SX-39	A	"	2X	W. R. Grace & Co.
SX-53	A	"	2X	Aurora, Ill.
SX-68	A	"	2X	
SX-90W	A,B	White	2X	
SX-93	A	Yellow	2X	
SX-98	C	"	2X	
492	C	"	4X	
644W	B,C	White	2X	
Pioneer 3147	B	Yellow	2X (Mod.)	Pioneer Corn Co., Inc.
3188	B	"	2X (Mod.)	Union City, Tenn.
3196	A	"	2X	
3306	C	"	2X	
3308	A	"	3X	
3334	C	"	2X	
3369A	A	"	2X	
3516	A	"	2X	
3571	A	"	2X (Mod.)	
511A	A,B	White	4X	
X8445	B	Yellow	2X (Mod.)	
X8537	C	"	3X	
Princeton SX-650	C	Yellow	2X	Princeton Farms
SX-803	A	"	2X	P.O. Box 319
SX-804	C	"	2X	Princeton, Ind.
SX-823	A	"	2X	
SX-836	C	"	2X	
SX-850	C	"	2X	
920A	A	White	4X	
940	B,C	"	4X	
960	B,C	"	4X	
990B	A	"	4X	
1006	C	Yellow	4X	
875M	B	"	4X	

(continued)

Table 2. (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
Trojan M-112	C	Yellow	3X	Trojan Seed Co.
TXS-112				Eastern Division
(Exp. 2650)	A	"	2X	Windfall, Ind.
TXS-116	A	"	2X	
TXS-119	C	"	2X	
TXS-120	C	"	2X	
TXS-121				
(C/F 66)	A	"	2X	
TXS-122				
(C/F 105)	A	"	2X	
TX-6593 (Exp.)	B	"	3X	
TXS-6642 "	B	"	2X	
TXS-6702 "	B	"	2X	
TX-6753 "	B	"	3X	
TXS-6772 "	B	"	2X	
TX-6833 "	B	"	3X	
Zimmerman 94W	B,C	White	4X	Zimmerman Hybrids
				Route 2
				Evansville, Ind.

* Test - A = Performance Test
B = Maize Dwarf Mosaic Virus Test
C = Screening Test

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

Table 11. Annual Summary, Normal Population, All Non-Virus Locations. 1970.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL45	52.5	15.1	0.7	35.8	82.3
S.S. 720	51.0	15.2	2.9	34.8	86.5
Trojan TXS-112	67.9	15.7	2.5	18.9	77.5
P.A.G. SX-53	77.0	15.7	0.0	31.8	86.6
Funk's G4333	77.7	15.9	0.6	24.7	86.0
S.S. 865	50.4	16.0	0.6	31.8	82.0
P.A.G. SX-93	50.3	16.0	0.0	34.1	86.3
Indep. S&W SS-400	58.1	16.1	0.2	30.6	85.6
Dekalb XL44	80.8	16.2	0.3	25.2	88.5
N.-K. PX-616	67.4	16.2	0.2	30.5	85.4
T-E Cashmaker	69.5	16.2	0.0	23.0	87.8
Meacham's MX30Y	68.7	16.2	3.3	36.7	87.8
Pioneer 3571	90.5	16.4	0.4	10.4	89.0
S.S. 707	68.9	16.5	4.6	24.6	88.1
S.S. 750	70.8	16.5	0.5	26.1	89.9
N.-K. KT-680	57.7	16.5	1.8	21.2	86.3
Indep. S&W SD-600	61.7	16.5	1.6	29.0	83.8
Stew. Card. SX-47	60.9	16.6	0.9	21.8	88.4
Princeton SX-823	69.4	16.6	0.0	24.4	89.0
Trojan TXS-116	49.2	16.6	0.0	30.6	86.0
Princeton SX-803	49.7	16.9	0.0	59.7	85.4
K.A.E.S. Ky 105	44.1	17.1	2.1	40.4	81.8
Pioneer 3516	81.3	17.1	0.0	23.9	87.8
Migro M-44SX	61.6	17.2	0.7	15.5	90.0
Migro M-750	56.2	17.2	1.9	29.6	90.8
S.S. 840	68.7	17.2	4.1	30.3	85.1
Stull's 747YSP	52.5	17.3	0.3	46.7	91.4
T-E 6916	73.2	17.7	0.0	20.1	91.2
Trojan TXS-122	63.6	18.0	0.6	32.6	90.3
Meacham's MX-40Y	64.8	18.1	0.0	22.3	88.2
Schenk SS-88A	53.6	18.1	0.2	51.4	92.6
Pioneer 3369A	118.9	18.1	0.0	11.2	89.4
Trojan TXS-121	63.0	18.1	5.6	33.9	83.5
N.-K. PX-678	112.7	18.1	0.3	7.9	90.3
T-E E-20-Y-A	61.3	18.1	1.4	29.1	88.8
P.A.G. SX-17	70.2	18.4	1.9	40.7	83.9

Table 11. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
McNair X210V	58.9	18.7	0.0	32.1	82.3
Dekalb XL81	84.5	18.8	0.2	17.8	86.9
Dekalb XL66	96.9	18.8	0.9	18.9	87.9
Stull's 807A+SX	63.9	18.9	0.0	35.4	88.8
Funk's G4550	76.4	19.0	0.6	19.2	89.7
Pioneer 3308	110.0	19.2	0.0	13.4	90.2
Stull's 808SX	62.7	19.2	0.9	35.2	89.4
Stull's 720ASX	61.6	19.3	0.4	35.1	87.8
Funk's G4697	82.3	19.3	1.1	22.5	81.7
Pioneer 3196	96.7	19.7	0.5	24.5	90.3
P.A.G. SX-39	115.2	19.7	0.0	11.0	84.4
Dekalb XL85	104.2	19.9	0.3	21.9	89.1
Funk's G5757	68.2	20.4	0.9	17.2	80.1
P.A.G. SX-68	72.2	21.4	0.9	29.3	86.2
Funk's G4761	65.5	22.1	0.0	8.0	88.7
Yellow Average	70.9	17.6	0.9	27.1	87.0
White					
King & Son K-60	60.1	17.4	0.6	33.3	86.9
Schenk S-96W	59.9	17.7	0.5	30.0	89.1
K.A.E.S. Ky 5921W	59.1	17.8	1.0	36.6	88.4
T-E M-20W	55.8	17.9	1.3	37.8	88.8
Stull's 550W	57.6	17.9	0.7	28.3	89.4
S.S. 935W	50.3	18.1	0.7	39.4	89.6
Princeton 990B	54.7	18.3	0.2	40.5	86.8
Meacham's M-7W	58.0	18.3	0.4	17.4	93.5
Princeton 920A	60.2	18.4	0.5	28.4	89.3
Dekalb XL390W	38.1	20.3	0.7	43.6	84.4
P.A.G. SX-90W	116.5	20.8	0.6	12.6	85.1
Pioneer 511A	111.3	23.2	2.5	14.2	87.9
Funk's G4895W	70.1	24.7	0.2	12.0	88.7
White Average	65.5	19.3	0.8	28.8	88.3
Grand Average	69.8	18.0	0.9	27.4	87.2

Table 10. Annual Summary, Normal Population, Quicksand, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL45	15.8	16.6	0.0	47.6	68.7
S.S. 720	23.0	17.2	0.0	40.3	74.0
P.A.G. SX-53	28.7	17.2	0.0	62.7	64.6
Trojan TXS-116	19.9	17.2	0.0	72.4	66.7
P.A.G. SX-93	14.3	17.4	0.0	82.3	70.8
Funk's G4333	60.7	17.5	0.0	33.3	81.2
S.S. 707	42.0	17.7	0.0	53.3	78.1
Dekalb XL44	44.7	18.8	0.0	54.6	77.1
N.-K. KT-680	45.0	18.9	0.0	18.3	75.0
Trojan TXS-112	43.5	19.1	0.0	33.7	72.9
Meacham's MX-30Y	45.6	19.2	0.0	60.3	82.3
T-E 6916	36.4	19.2	0.0	33.3	85.4
N.-K. PX-616	42.8	19.3	0.0	35.5	80.2
Indep. S&W SS-400	28.0	19.5	0.0	65.1	76.0
Meacham's MX-40Y	27.6	19.6	0.0	47.0	81.2
Princeton SX-803	15.3	19.7	0.0	75.4	76.0
Stew. Card. SX-47	45.9	19.8	0.0	20.4	81.2
Pioneer 3571	86.0	20.1	0.0	16.8	85.4
S.S. 865	27.0	20.3	0.0	70.4	75.0
Indep. S&W SD-600	26.1	20.4	0.0	61.1	71.9
S.S. 750	44.2	21.0	0.0	50.9	84.4
T-E Cashmaker	26.2	21.1	0.0	39.6	76.0
K.A.E.S. Ky 105	29.6	21.1	0.0	43.1	75.0
S.S. 840	43.3	21.1	0.0	45.4	83.3
McNair X210V	32.1	21.4	0.0	43.7	70.8
Stull's 747YSP	29.1	21.4	0.0	40.0	86.5
Trojan TXS-121	22.4	21.6	0.0	58.1	78.1
Migro M-750	29.8	21.7	0.0	34.2	83.3
Princeton SX-823	54.2	21.8	0.0	15.7	86.5
Dekalb XL66	75.0	22.0	0.0	23.6	81.3
Migro M-44SX	41.3	22.1	0.0	25.8	78.1
T-E E-20-Y-A	27.5	22.1	0.0	46.2	80.2
Schenk SS-88A	24.6	22.2	0.0	47.7	89.6
Pioneer 3369A	114.2	22.6	0.0	13.4	87.5
Dekalb XL85	82.0	22.7	0.0	41.9	82.3
N.-K. PX-678	122.1	22.8	0.0	5.3	81.2

Table 10. (continued)

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Trojan TXS-122	42.3	22.8	0.0	61.6	89.6
Dekalb XL81	71.0	23.0	0.0	29.2	79.2
Pioneer 3516	78.5	23.0	0.0	30.4	82.3
Funk's G4550	52.9	23.1	0.0	28.4	81.2
P.A.G. SX-68	21.1	23.8	0.0	53.6	77.1
P.A.G. SX-39	130.4	24.5	0.0	3.9	83.3
Pioneer 3196	66.9	24.6	0.0	18.4	78.1
Stull's 807A+SX	27.7	24.6	0.0	50.8	77.1
Funk's G5757	53.0	24.9	0.0	29.7	76.0
Stull's 720ASX	41.3	25.1	0.0	30.9	84.4
Funk's G4697	54.5	25.2	0.0	52.4	75.0
Stull's 808SX	46.2	25.2	0.0	45.8	84.4
P.A.G. SX-17	66.0	25.6	0.0	38.7	78.1
Pioneer 3308	96.9	27.5	0.0	18.7	88.5
Funk's G4761	69.3	32.1	0.0	13.8	92.7
Yellow Average	47.7	21.5	0.0	40.5	79.5
White					
K.A.E.S. Ky 5921W	48.3	20.6	0.0	41.6	82.3
Schenk S-96W	50.9	20.7	0.0	54.0	78.1
King & Son K-60	40.4	21.2	0.0	28.6	82.3
Princeton 920A	46.5	22.0	0.0	28.0	81.2
Meacham's M-7W	29.4	22.1	0.0	16.2	83.3
T-E M-20W	32.3	22.7	0.0	51.4	83.3
Princeton 990B	46.1	22.9	0.0	39.6	85.4
S.S. 935W	30.7	23.7	0.0	41.1	88.5
Stull's 550W	40.8	23.9	0.0	37.3	83.3
Dekalb XL390W	20.5	26.4	0.0	39.1	79.2
Funk's G4895W	71.3	28.3	0.0	12.9	83.3
Pioneer 511A	118.1	29.8	0.0	15.7	84.4
P.A.G. SX-90W	144.3	31.1	0.0	5.9	86.5
White Average	55.4	24.3	0.0	31.6	83.2
Grand Average	49.3	22.1	0.0	38.7	80.2

Table 3. Agronomic Information Pertaining to 1970 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-200 lbs/A P- 50 lbs/A K-100 lbs/A	Atrazine Banded	May 8	Sept. 22	
(2) Princeton, Ky. Western Ky. Substation	Huntington & Lindside Silt Loam	N-150 lbs/A P- None K- 50lbs/A	Atrazine Broadcast	May 5 " 6 " 7	Sept. 23 " 25 " 28	
(3) Henderson, Ky. James McConathy	Wakeland Silt Loam	N-200 lbs/A P- 92 lbs/A K-120 lbs/A	Atrazine and Sutan Preplant	May 19	Sept. 29	
(4) Hartford, Ky. Walter and Earl Campbell	Stendal Silt Loam	N-180 lbs/A P- None K- None	Atrazine and Sutan Preplant	May 20	Sept. 30	
(5) Franklin, Ky. Robert Wade	Pembroke Silt Loam	N-180 lbs/A P- 85 lbs/A K- 20lbs/A	Atrazine and Sutan Preplant	May 18	Sept. 18 " 21	
(6) Lexington, Ky. Ky. A.E.S. Spindletop Farm	Lanton Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	Atrazine Broadcast	May 22 " 23	Oct. 23 " 27	Performance Test mild blight
South Farm	Maury Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	Atrazine Broadcast	May 26	Nov. 17	Screening Test
(7) Frankfort, Ky. Mason and Ralph Bates	Armour Silt Loam	N-150 lbs/A P- None K- 50 lbs/A	Atrazine Broadcast	May 28	Oct. 19	
(8) Quicksand, Ky. Robinson Substation	Philo Silt Loam	N-150 lbs/A P- 44 lbs/A K- 83 lbs/A	Atrazine Broadcast	May 27	Oct. 5 " 6	

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

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
P.A.G. SX-53	112.7	13.5	0.0	5.6	96.9
S.S. 865	63.5	13.6	0.0	4.1	82.3
Dekalb XL45	77.5	13.7	0.0	7.2	87.5
P.A.G. SX-93	75.6	13.8	0.0	1.1	92.7
Trojan TXS-112	95.0	13.8	0.0	3.8	85.4
N.-K. PX-616	78.2	13.8	0.0	6.0	85.4
Migro M-44SX	77.3	13.9	0.0	3.5	92.7
T-E Cashmaker	95.1	14.0	0.0	9.5	89.6
S.S. 840	97.0	14.0	0.0	8.3	81.2
S.S. 750	95.9	14.0	0.0	11.1	93.8
N.-K. KT-680	67.7	14.1	0.0	1.1	95.8
Trojan TXS-116	63.5	14.1	0.0	3.3	86.5
Trojan TXS-122	83.5	14.2	0.0	4.4	94.8
Migro M-750	78.9	14.2	0.0	12.2	95.8
Stew. Card. SX-47	57.0	14.2	0.0	4.8	85.4
Pioneer 3516	119.3	14.3	0.0	6.7	90.6
Dekalb XL44	102.3	14.3	0.0	1.2	84.4
Meacham's MX-30Y	91.0	14.3	0.0	10.4	91.7
Indep. S&W SS-400	67.6	14.3	0.0	6.9	87.5
Stull's 747YSP	73.2	14.3	0.0	24.9	95.8
S.S. 707	77.0	14.3	0.0	2.3	91.7
S.S. 720	80.0	14.4	0.0	7.9	92.7
Princeton SX-823	75.8	14.5	0.0	1.4	84.4
Princeton SX-803	76.7	14.5	0.0	15.1	85.4
Funk's G4333	86.3	14.5	0.0	6.2	86.5
Pioneer 3571	108.0	14.6	0.0	1.2	86.5
K.A.E.S. Ky 105	40.9	14.7	0.0	13.4	77.1
Funk's G4550	98.7	14.8	0.0	19.9	94.8
Indep. S&W SD-600	76.6	14.9	0.0	6.4	84.4
T-E 6916	97.5	15.0	0.0	2.1	97.9
N.-K. PX-678	123.3	15.1	0.0	2.2	91.7
McNair X210V	74.7	15.1	0.0	6.8	83.3
Pioneer 3369A	122.2	15.1	0.0	3.4	92.7
Schenk SS-88A	86.7	15.1	0.0	20.0	99.0
Meacham's MX-40Y	90.8	15.1	0.0	3.3	94.8
P.A.G. SX-17	88.9	15.2	0.0	7.8	81.2
Trojan TXS-121	67.3	15.2	0.0	15.8	77.1
Stull's 808SX	95.9	15.2	0.0	7.6	95.8
Stull's 720ASX	83.5	15.4	0.0	8.8	93.7
Stull's 807A+SX	78.9	15.5	0.0	7.6	94.8
T-E E-20-Y-A	95.2	16.1	0.0	4.6	91.7
Pioneer 3308	136.6	16.2	0.0	2.2	92.7
Dekalb XL66	93.3	16.2	0.0	9.7	83.3
Funk's G4697	87.5	16.2	0.0	6.2	87.5
Dekalb XL81	102.9	16.5	0.0	1.2	86.5
Dekalb XL85	134.3	16.7	0.0	2.5	88.5
Pioneer 3196	123.7	17.1	0.0	1.1	92.7
P.A.G. SX-39	100.5	17.4	0.0	3.8	75.0
Funk's G5757	69.0	17.7	0.0	7.7	75.0
Funk's G4761	79.5	17.7	0.0	1.3	87.5
P.A.G. SX-68	101.4	19.1	0.0	4.4	91.7
Yellow Average	88.7	15.0	0.0	6.7	88.9
White					
King & Son K-60	86.3	14.1	0.0	5.6	91.7
S.S. 935W	76.3	14.3	0.0	5.4	95.8
K.A.E.S. Ky 5921W	83.9	14.6	0.0	11.1	89.6
Princeton 990B	68.0	14.7	0.0	3.5	92.7
Princeton 920A	77.2	14.8	0.0	7.0	89.6
T-E M-20W	78.0	14.8	0.0	5.8	89.6
Stull's 550W	87.7	14.9	0.0	1.1	96.9
Dekalb XL390W	49.4	15.0	0.0	2.4	91.7
Schenk S-96W	76.8	15.4	0.0	2.1	92.7
Meacham's M-7W	65.1	15.5	0.0	4.3	97.9
P.A.G. SX-90W	136.8	18.7	0.0	4.4	85.4
Pioneer 511A	140.4	20.1	0.0	1.1	85.4
Funk's G4895W	70.3	20.2	0.0	3.9	80.2
White Average	84.3	15.9	0.0	4.4	90.7
Grand Average	87.8	15.2	0.0	6.2	89.2

Table 9. Annual Summary, Normal Population, Lexington, Ky.

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL44	119.8	15.2	0.0	5.2	95.8
Funk's G4333	115.7	15.3	0.0	6.6	90.6
Pioneer 3516	86.5	15.4	0.0	27.6	94.8
Pioneer 3571	110.2	15.5	0.0	7.5	96.9
S.S. 720	94.2	15.7	0.0	19.1	97.9
P.A.G. SX-53	114.9	15.8	0.0	5.4	93.7
Dekalb XL45	99.7	15.8	0.0	11.1	92.7
Indep. S&W SS-400	115.9	16.0	0.0	13.1	90.6
Meacham's MX-30Y	104.7	16.0	0.0	21.6	95.8
N.-K. PX-616	115.1	16.3	0.0	18.6	88.5
N.-K. PX-678	89.1	16.3	0.0	13.7	99.0
Trojan TXS-112	96.4	16.4	0.0	18.7	79.2
Indep. S&W SD-600	109.7	16.5	0.0	11.6	90.6
Pioneer 3308	99.0	16.5	0.0	14.9	92.7
Stew. Card. SX-47	106.2	16.6	0.0	21.0	99.0
Migro M-44SX	110.2	16.6	0.0	5.5	94.8
Princeton SX-803	116.2	16.7	0.0	22.2	93.7
S.S. 707	119.6	16.7	0.0	6.8	93.7
Funk's G4697	115.8	16.8	0.0	20.2	92.7
P.A.G. SX-39	88.7	16.9	0.0	32.4	90.6
P.A.G. SX-17	94.9	16.9	0.0	50.8	91.7
S.S. 750	110.1	16.9	0.0	12.4	91.7
Pioneer 3369A	120.6	17.0	0.0	16.5	89.6
S.S. 840	90.9	17.0	0.0	18.2	91.7
Princeton SX-823	115.4	17.1	0.0	12.3	93.7
S.S. 865	101.1	17.1	0.0	20.7	94.8
T-E Cashmaker	100.7	17.1	0.0	14.0	97.9
Migro M-750	68.8	17.4	0.0	29.8	87.5
N.-K. KT-680	97.9	17.5	0.0	14.9	97.9
Dekalb XL66	124.4	17.9	0.0	6.5	93.7
Trojan TXS-121	110.4	17.9	0.0	17.9	96.9
Stull's 747YSP	86.3	18.0	0.0	42.5	94.8
P.A.G. SX-93	105.6	18.1	0.0	13.5	100.0
T-E E-20-Y-A	91.8	18.3	0.0	16.6	94.8
Dekalb XL81	86.4	18.3	0.0	17.9	93.7
Trojan TXS-122	93.5	18.5	0.0	14.5	92.7
T-E 6916	101.4	18.5	0.0	3.1	100.0
Funk's G4761	86.1	18.6	0.0	6.7	95.8
Pioneer 3196	92.4	19.1	0.0	46.9	100.0
Schenk SS-88A	79.5	19.2	0.0	65.7	96.9
K.A.E.S. Ky 105	84.0	19.3	0.0	26.9	96.9
Funk's G4550	98.8	19.4	0.0	9.6	96.9
Funk's G5757	100.8	19.4	0.0	6.7	79.2
Stull's 807A+SX	115.9	19.4	0.0	33.4	91.7
Trojan TXS-116	113.3	19.8	0.0	12.5	100.0
McNair X210V	101.9	20.2	0.0	28.4	88.5
Stull's 808SX	87.7	20.3	0.0	39.9	94.8
Dekalb XL85	104.5	20.5	0.0	17.9	93.7
Stull's 720ASX	98.5	20.6	0.0	49.0	85.4
Meacham's MX-40Y	103.1	20.8	0.0	2.1	92.7
P.A.G. SX-68	76.2	21.4	0.0	15.7	92.7
Yellow Average	101.4	17.7	0.0	19.4	93.6
White					
P.A.G. SX-90W	83.8	16.7	0.0	30.0	93.7
S.S. 935W	77.7	17.6	0.0	25.2	99.0
Stull's 550W	82.7	18.0	0.0	16.8	96.9
King & Son K-60	92.6	18.2	0.0	15.6	93.7
Schenk S-96W	72.9	18.5	0.0	21.0	99.0
T-E M-20W	91.3	18.6	0.0	38.2	95.8
Princeton 990B	79.8	18.9	0.0	33.3	100.0
Meacham's M-7W	112.9	20.2	0.0	10.6	97.9
K.A.E.S. Ky 5921W	86.9	20.3	0.0	24.9	95.8
Pioneer 511A	79.3	20.6	0.0	28.1	96.9
Dekalb XL390W	76.8	21.1	0.0	43.1	91.7
Princeton 920A	78.1	21.2	0.0	21.0	99.0
Funk's G4895W	71.0	23.7	0.0	14.6	100.0
White Average	83.5	19.5	0.0	24.8	96.9
Grand Average	97.8	18.0	0.0	20.4	94.2

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

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL45	36.5	14.6	0.0	19.3	86.5
Indep. S&W SS-400	29.4	15.6	0.0	23.9	91.7
P.A.G. SX-93	25.7	15.6	0.0	15.3	83.3
N.-K. PX-616	54.2	15.7	0.0	36.4	91.7
T-E Cashmaker	51.3	15.7	0.0	16.5	87.5
S.S. 865	17.7	15.7	0.0	16.2	85.4
Meacham's MX-30Y	52.9	15.9	0.0	40.3	95.8
Stew. Card. SX-47	38.6	16.0	0.0	12.9	88.5
Funk's G4333	57.2	16.1	0.0	19.8	89.6
Princeton SX-823	41.3	16.2	0.0	32.1	87.5
S.S. 720	24.9	16.3	0.0	23.9	87.5
Indep. S&W SD-600	42.6	16.3	0.0	18.3	91.7
Pioneer 3571	69.9	16.3	0.0	11.1	86.5
Trojan TXS-112	46.4	16.3	0.0	9.3	78.1
Dekalb XL44	61.3	16.5	0.0	19.1	95.8
Stull's 747YSP	25.0	16.5	0.0	46.7	95.8
K.A.E.S. Ky 105	13.7	16.6	0.0	45.8	81.2
S.S. 840	34.6	16.7	0.0	20.3	83.3
S.S. 750	30.2	16.8	0.0	13.2	93.7
Princeton SX-803	18.7	16.8	0.0	82.6	88.5
Pioneer 3516	63.5	16.9	0.0	24.5	89.6
N.-K. KT-680	28.7	16.9	0.0	18.4	88.5
P.A.G. SX-53	58.2	17.0	0.0	29.6	85.4
Trojan TXS-116	19.3	17.0	0.0	13.6	83.3
Schenk SS-88A	18.8	17.1	0.0	38.7	93.7
S.S. 707	44.8	17.2	0.0	9.2	88.5
N.-K. PX-678	92.1	17.4	0.0	11.1	94.8
Pioneer 3308	80.0	17.8	0.0	17.8	87.5
T-E 6916	63.0	17.9	0.0	17.4	91.7
Trojan TXS-122	38.9	18.0	0.0	34.4	93.8
Stull's 720ASX	43.6	18.2	0.0	27.8	96.9
P.A.G. SX-17	33.2	18.3	0.0	37.2	86.5
Funk's G4550	43.5	18.3	0.0	16.7	89.6
Migro M-750	42.2	18.3	0.0	18.2	88.5
Dekalb XL81	76.5	18.6	0.0	16.1	89.6
Pioneer 3369A	90.5	18.7	0.0	11.3	90.6
Stull's 807A+SX	40.8	18.7	0.0	38.9	94.8
McNair X210V	28.3	18.9	0.0	31.5	86.5
Pioneer 3196	58.2	19.2	0.0	26.6	89.6
T-E E-20-Y-A	39.1	19.3	0.0	25.8	94.8
Funk's G5757	45.9	19.4	0.0	19.0	81.2
Migro M-44SX	31.9	19.4	0.0	5.6	93.8
Dekalb XL66	80.1	19.4	0.0	19.1	87.5
Dekalb XL85	94.1	19.9	0.0	15.4	87.5
Stull's 808SX	26.4	20.1	0.0	45.9	89.6
Meacham's MX-40Y	33.6	20.1	0.0	12.6	84.4
P.A.G. SX-39	96.5	20.3	0.0	11.0	87.5
Funk's G4697	63.0	20.4	0.0	19.6	84.4
Trojan TXS-121	53.4	20.5	0.0	21.9	86.5
P.A.G. SX-68	49.1	21.4	0.0	37.1	86.5
Funk's G4761	39.5	21.9	0.0	9.5	87.5
Yellow Average	46.8	17.7	0.0	23.6	88.8
White					
S.S. 935W	22.7	17.2	0.0	43.2	87.5
K.A.E.S. Ky 5921W	30.0	17.3	0.0	36.6	86.5
King & Son K-60	26.9	17.5	0.0	52.7	91.7
Meacham's M-7W	27.7	18.1	0.0	20.0	94.8
Princeton 920A	33.0	18.3	0.0	35.1	92.7
Stull's 550W	20.5	18.5	0.0	22.9	89.6
T-E M-20W	29.0	18.6	0.0	35.0	88.5
Schenk S-96W	31.3	18.9	0.0	37.1	88.5
Princeton 990B	24.0	19.0	0.0	30.9	80.2
Dekalb XL390W	15.0	19.8	0.0	42.3	78.1
P.A.G. SX-90W	84.0	20.0	0.0	15.1	86.5
Pioneer 511A	75.4	20.1	0.0	18.1	91.7
Funk's G4895W	51.1	21.1	0.0	12.6	92.7
White Average	36.2	18.8	0.0	30.9	88.4
Grand Average	44.7	17.9	0.0	25.1	88.7

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

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
S.S. 865	58.9	14.2	4.2	13.7	78.1
S.S. 720	50.4	14.5	20.3	20.0	85.4
S.S. 750	76.9	14.8	3.6	13.1	87.5
K.A.E.S. Ky 105	43.8	14.8	14.4	22.8	81.2
P.A.G. SX-53	94.2	14.9	0.0	28.8	85.4
Pioneer 3571	88.4	14.9	2.9	3.5	83.3
T-E Cashmaker	78.8	15.0	0.0	26.1	87.5
P.A.G. SX-93	63.2	15.1	0.0	11.4	85.4
Dekalb XL44	96.9	15.4	2.2	18.8	93.7
Indep. S&W SS-400	59.5	15.4	1.6	14.5	79.2
Dekalb XL45	76.4	15.5	5.2	23.1	79.2
N.-K. KT-680	62.8	15.5	12.4	10.0	88.5
T-E E-20-Y-A	64.0	15.6	10.1	15.6	81.2
Trojan TXS-112	77.3	15.6	17.3	5.8	76.0
Funk's G4333	95.2	15.6	3.8	16.4	82.3
N.-K. PX-616	68.3	15.7	1.2	12.5	83.3
Migro M-750	60.5	15.8	13.4	22.0	85.4
Stull's 747YSP	65.6	15.8	2.3	52.8	92.7
Migro M-44SX	69.8	16.1	4.9	11.6	88.5
Princeton SX-823	66.0	16.2	0.0	4.8	85.4
Pioneer 3516	91.0	16.3	0.0	12.0	82.3
Meacham's MX-40Y	75.9	16.4	0.0	19.9	87.5
Indep. S&W SD-600	65.2	16.5	11.2	14.8	75.0
Meacham's MX-30Y	68.6	16.6	22.9	25.7	86.5
S.S. 840	77.1	16.6	28.6	12.6	84.4
S.S. 707	70.4	16.8	32.0	13.8	80.2
Princeton SX-803	55.3	16.8	0.0	53.3	85.4
Trojan TXS-116	53.9	17.0	0.0	21.1	88.5
Pioneer 3308	131.1	17.1	0.0	8.3	86.5
Dekalb XL66	92.0	17.2	6.4	15.7	85.4
Stull's 808SX	72.2	17.2	6.7	20.5	86.5
Trojan TXS-122	63.0	17.2	4.6	5.0	74.0
Trojan TXS-121	44.4	17.3	39.5	26.2	66.7
Pioneer 3369A	123.8	17.3	0.0	3.6	84.4
Stull's 720ASX	66.1	17.5	2.5	17.5	88.5
Funk's G4550	79.5	17.5	4.4	13.1	87.5
Schenk SS-88A	70.7	17.5	1.2	38.9	88.5
Stull's 807A+SX	63.8	17.7	0.0	17.5	81.2
Pioneer 3196	101.9	18.0	3.4	26.6	85.4
McNair X210V	60.6	18.1	0.0	21.9	74.0
Dekalb XL81	101.2	18.1	1.3	10.9	85.4
Stew. Card. SX-47	59.1	18.2	6.3	16.2	84.4
N.-K. PX-678	122.3	18.3	2.1	10.9	83.3
Funk's G4697	92.0	18.5	7.4	11.2	75.0
T-E 6916	80.9	18.7	0.0	1.2	83.3
Dekalb XL85	111.7	18.7	2.4	7.1	87.5
P.A.G. SX-39	134.7	19.1	0.0	10.6	87.5
Funk's G5757	74.7	19.3	6.2	14.3	81.2
P.A.G. SX-17	64.3	19.5	13.2	40.8	83.3
Funk's G4761	66.7	19.8	0.0	2.4	91.7
P.A.G. SX-68	74.9	21.2	6.4	17.3	81.3
Yellow Average	77.0	16.8	6.4	17.2	83.8
White					
K.A.E.S. Ky 5921W	67.9	15.4	7.1	23.5	85.4
T-E M-20W	80.9	15.4	9.3	23.7	82.3
Schenk S-96W	83.8	15.4	3.7	17.3	84.4
King & Son K-60	56.2	15.9	3.9	43.5	83.3
Princeton 920A	67.3	16.0	3.7	22.9	86.5
Stull's 550W	64.3	16.1	5.2	15.4	88.5
Meacham's M-7W	62.0	16.3	2.6	14.4	88.5
Princeton 990B	63.8	16.3	1.2	32.2	86.5
S.S. 935W	64.3	17.1	5.1	22.6	86.5
Dekalb XL390W	47.8	17.8	5.1	32.9	85.4
P.A.G. SX-90W	133.5	20.4	4.0	3.6	82.3
Pioneer 511A	108.7	21.9	17.3	10.2	82.3
Funk's G4895W	91.8	24.8	1.2	4.9	84.4
White Average	76.3	17.6	5.3	20.6	85.1
Grand Average	76.8	17.0	6.2	17.9	84.0

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

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
S.S. 720	32.2	14.1	0.0	71.2	90.6
Trojan TXS-112	57.6	14.6	0.0	30.9	75.0
Dekalb XL45	26.8	15.5	0.0	89.7	87.5
T-E Cashmaker	71.4	15.5	0.0	28.2	94.8
Princeton SX-823	59.9	15.5	0.0	82.9	92.7
Indep. S&W SS-400	43.0	15.8	0.0	56.2	89.6
S.S. 750	50.5	15.8	0.0	56.5	88.5
Stew. Card. SX-47	59.9	16.0	0.0	50.7	91.7
N.-K. KT-680	41.8	16.0	0.0	66.7	76.0
P.A.G. SX-53	62.5	16.0	0.0	63.7	93.7
Meacham's MX-30Y	56.1	16.0	0.0	72.6	88.5
Migro M-44SX	47.5	16.2	0.0	23.7	96.9
Trojan TXS-116	31.0	16.2	0.0	52.1	89.6
S.S. 707	64.2	16.2	0.0	71.5	96.9
Migro M-750	46.8	16.3	0.0	72.8	95.8
P.A.G. SX-93	21.0	16.5	0.0	74.6	90.6
S.S. 865	31.2	16.7	0.0	66.6	79.2
Indep. S&W SD-600	45.8	16.7	0.0	49.7	91.7
Funk's G4333	79.5	16.9	0.0	47.8	93.8
Pioneer 3516	76.3	17.0	0.0	53.3	88.5
Meacham's MX-40Y	42.8	17.0	0.0	59.2	91.7
K.A.E.S. Ky 105	29.2	17.1	0.0	60.4	79.2
T-E E-20-Y-A	50.7	17.2	0.0	52.1	92.7
Trojan TXS-121	56.4	17.5	0.0	76.1	89.6
T-E 6916	38.9	17.5	0.0	67.7	91.7
P.A.G. SX-17	74.0	17.6	0.0	55.6	84.4
Pioneer 3571	91.2	17.6	0.0	21.3	88.5
Trojan TXS-122	60.5	17.7	0.0	74.1	94.8
Dekalb XL44	64.0	17.7	0.0	53.5	90.6
N.-K. PX-616	40.1	17.7	0.0	74.5	81.2
Schenk SS-88A	41.4	18.0	0.0	88.9	85.4
S.S. 840	60.6	18.3	0.0	64.8	86.5
Stull's 807A+SX	44.2	18.4	0.0	74.7	97.9
N.-K. PX-678	132.3	18.4	0.0	5.6	93.7
Stull's 747YSP	40.5	18.5	0.0	69.1	88.5
Pioneer 3369A	134.0	18.5	0.0	21.5	91.7
Stull's 808SX	53.6	18.6	0.0	49.6	85.4
McNair X210V	51.7	19.0	0.0	64.7	84.4
Stull's 720ASX	46.5	19.3	0.0	71.2	85.4
Princeton SX-803	23.3	19.3	0.0	94.9	80.2
Dekalb XL81	88.7	19.8	0.0	44.4	93.7
Dekalb XL85	97.0	20.2	0.0	52.1	95.8
Dekalb XL66	109.5	20.7	0.0	37.9	96.9
P.A.G. SX-39	143.2	20.8	0.0	3.8	85.4
Funk's G4697	88.1	20.9	0.0	33.9	83.3
Pioneer 3308	121.2	21.0	0.0	19.8	88.5
Funk's G4761	59.9	21.3	0.0	13.3	78.1
Funk's G4550	78.3	21.3	0.0	36.3	87.5
Pioneer 3196	121.4	21.7	0.0	23.9	96.9
Funk's G5757	78.3	21.9	0.0	32.6	89.6
P.A.G. SX-68	101.2	23.9	0.0	46.2	89.6
Yellow Average	64.1	17.9	0.0	53.4	89.0
White					
King & Son K-60	57.9	16.9	0.0	58.7	77.1
T-E M-20W	37.3	17.0	0.0	77.2	92.7
Schenk S-96W	47.0	17.3	0.0	49.4	90.6
Stull's 550W	53.7	17.5	0.0	69.4	91.7
Meacham's M-7W	54.4	17.6	0.0	30.2	100.0
Princeton 920A	50.2	18.0	0.0	56.2	88.5
S.S. 935W	34.1	18.3	0.0	72.3	85.4
Princeton 990B	50.3	18.7	0.0	78.2	83.3
K.A.E.S. Ky 5921W	37.0	19.1	0.0	79.8	87.5
Dekalb XL390W	25.9	19.5	0.0	85.8	82.3
P.A.G. SX-90W	126.6	21.9	0.0	9.3	79.2
Pioneer 511A	140.1	28.5	0.0	7.2	87.5
Funk's G4895W	66.9	29.6	0.0	23.8	87.5
White Average	60.1	20.0	0.0	53.6	87.2
Grand Average	63.3	18.3	0.0	53.5	88.6

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

Hybrid	Yield Bu/A	Avg % Moist.	% Root Lodged	% Stalk Lodged	Average % Stand
Yellow					
Dekalb XL45	34.6	13.8	0.0	52.4	74.0
Trojan TXS-112	59.2	13.8	0.0	30.4	76.0
S.S. 720	52.5	14.1	0.0	60.8	77.1
Indep. S&W SD-600	66.1	14.5	0.0	41.0	81.2
Princeton SX-803	42.2	14.6	0.0	74.5	88.5
S.S. 865	53.1	14.6	0.0	31.3	79.2
Princeton SX-823	73.5	15.0	0.0	21.2	92.7
N.-K. PX-616	73.0	15.0	0.0	29.9	87.5
Trojan TXS-116	43.4	15.0	0.0	38.9	87.5
Stew. Card. SX-47	59.7	15.2	0.0	26.5	88.5
T-E Cashmaker	63.1	15.2	0.0	27.4	81.2
P.A.G. SX-53	67.5	15.2	0.0	26.8	86.5
Pioneer 3571	80.0	15.5	0.0	11.8	95.8
Funk's G4333	49.1	15.6	0.0	42.9	78.1
Dekalb XL44	76.5	15.6	0.0	24.0	82.3
Meacham's MX-30Y	62.2	15.6	0.0	26.2	74.0
K.A.E.S. Ky 105	67.4	15.8	0.0	70.7	82.3
Migro M-44SX	53.1	15.8	0.0	32.8	85.4
P.A.G. SX-17	70.1	15.9	0.0	54.2	82.3
P.A.G. SX-93	46.9	15.9	0.0	40.4	81.2
Indep. S&W SS-400	62.9	15.9	0.0	34.5	84.4
S.S. 750	87.6	16.0	0.0	25.6	89.6
S.S. 707	64.5	16.4	0.0	15.3	87.5
N.-K. KT-680	59.8	16.5	0.0	19.0	82.3
Trojan TXS-121	86.5	16.8	0.0	21.9	89.6
Stull's 747YSP	47.7	16.8	0.0	51.2	85.4
Funk's G4697	75.0	16.9	0.0	14.1	74.0
Dekalb XL81	65.0	17.0	0.0	4.7	80.2
T-E 6916	94.3	17.0	0.0	15.9	88.5
S.S. 840	77.8	17.0	0.0	42.4	85.4
Migro M-750	66.5	17.0	0.0	18.0	99.0
Pioneer 3516	53.9	17.1	0.0	13.0	86.5
Meacham's MX-40Y	80.2	17.3	0.0	12.3	85.4
Schenk SS-88A	53.1	17.4	0.0	60.2	94.8
Pioneer 3369A	127.1	17.5	0.0	8.3	89.6
Stull's 807A+SX	75.6	17.9	0.0	24.5	84.4
Trojan TXS-122	63.8	17.9	0.0	34.2	92.7
Pioneer 3196	112.8	18.0	0.0	28.0	89.6
Dekalb XL66	104.0	18.0	0.0	20.2	87.5
Stull's 808SX	57.3	18.1	0.0	37.1	89.6
T-E E-20-Y-A	60.7	18.4	0.0	43.0	86.5
P.A.G. SX-39	112.3	18.5	0.0	11.7	81.2
McNair X210V	63.1	18.5	0.0	27.8	88.5
Pioneer 3308	104.9	18.6	0.0	12.4	94.8
Stull's 720ASX	51.8	18.7	0.0	40.2	80.2
N.-K. PX-678	108.0	18.8	0.0	6.9	88.5
Funk's G4550	83.0	19.0	0.0	10.1	90.6
P.A.G. SX-68	81.5	19.1	0.0	31.0	84.4
Funk's G5757	55.5	20.0	0.0	10.8	78.1
Dekalb XL85	105.5	20.8	0.0	16.9	88.5
Funk's G4761	57.6	23.4	0.0	9.3	87.5
Yellow Average	70.4	16.8	0.0	29.1	85.4
White					
Stull's 550W	53.6	16.6	0.0	34.9	79.2
P.A.G. SX-90W	106.3	17.0	0.0	19.7	82.3
K.A.E.S. Ky 5921W	59.8	17.2	0.0	38.5	91.7
Princeton 990B	50.8	17.3	0.0	66.1	79.2
Schenk S-96W	56.9	17.7	0.0	29.3	90.6
King & Son K-60	60.5	17.7	0.0	28.2	88.5
T-E M-20W	41.8	18.1	0.0	33.7	89.6
Meacham's M-7W	54.8	18.2	0.0	25.9	91.7
S.S. 935W	46.5	18.2	0.0	66.1	84.4
Princeton 920A	69.1	18.2	0.0	28.8	87.5
Pioneer 511A	117.0	21.6	0.0	19.0	87.5
Dekalb XL390W	31.0	22.3	0.0	59.9	82.3
Funk's G4895W	68.4	24.9	0.0	11.3	92.7
White Average	62.8	18.9	0.0	35.5	86.7
Grand Average	68.9	17.2	0.0	30.4	85.7