

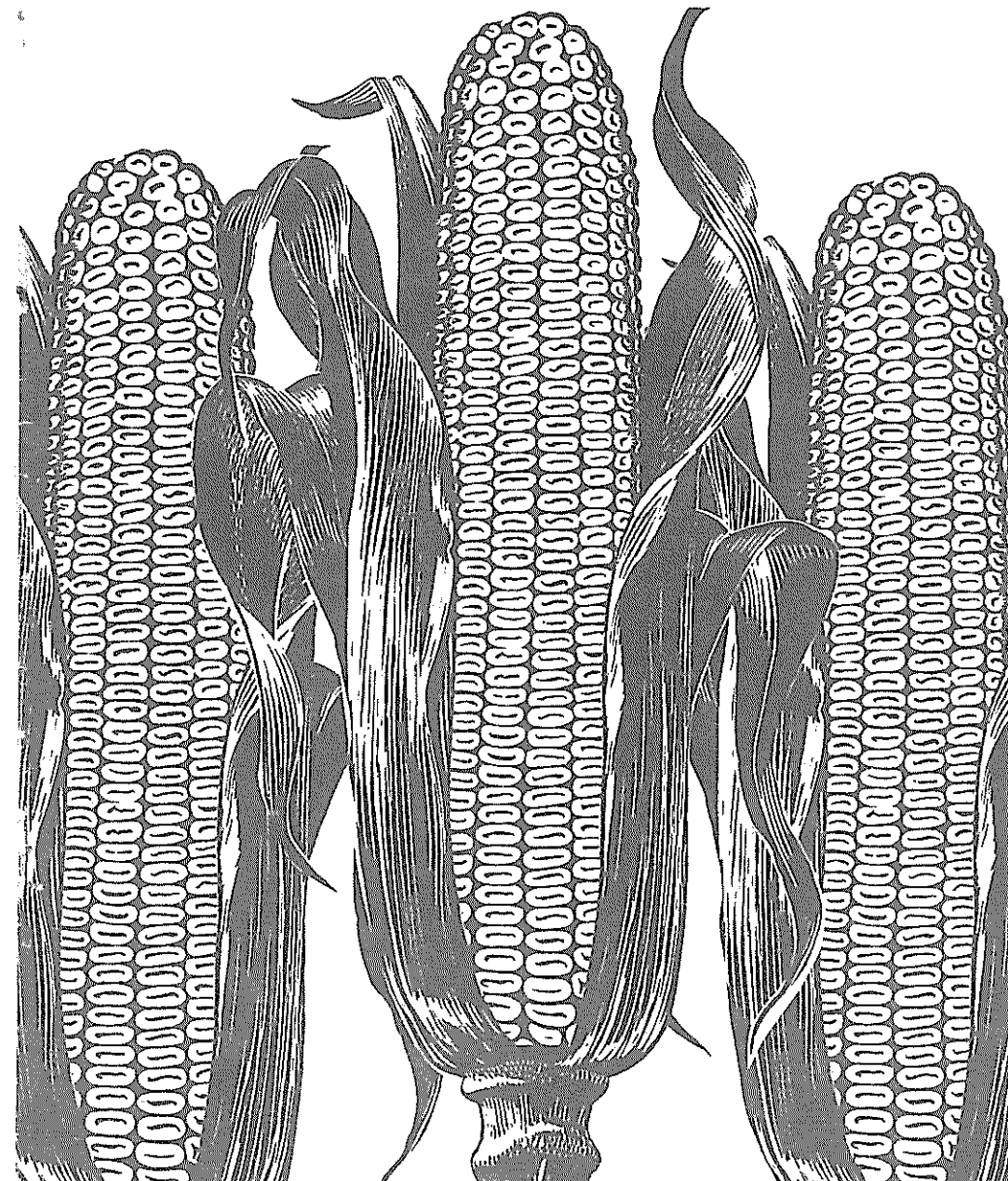
TABLE 14.—CORN VIRUS TEST, NORMAL POPULATION, HENDERSON, KY., 1978

VARIETY	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL% LODGED 1978	VIRUS RATING 1978
<b>YELLOW HYBRIDS</b>					
FUNK'S EXP 28236	75.4	27.6	86.2	1.6	2.3
FUNK'S 54848	72.3	30.3	68.1	1.8	2.3
PIONEER BRAND 3179	75.5	24.6	89.0	5.8	2.3
DEKALB XL72B	73.6	23.5	87.1	1.6	2.7
MCCURDY 77-28	55.3	24.0	79.0	3.6	2.7
PIONEER BRAND 3147	69.5	24.8	83.6	1.6	2.7
ASGROW RX 115A	71.1	23.2	82.9	4.6	3.0
BO JAC X51	70.6	20.7	87.6	1.1	3.0
DEKALB XL394	54.2	29.4	95.2	4.9	3.0
MUNCY CHIEF MDM803	66.9	24.3	79.0	5.3	3.0
PIONEER BRAND X5505	80.4	25.8	82.4	1.7	3.0
SEED KEM SKX-68	75.1	19.7	82.4	1.1	3.0
GOLDEN ACRES T-E 6947	63.1	26.3	81.4	2.9	3.3
NORTHRUP-KING PX95	70.3	26.7	77.6	6.4	3.3
DEKALB XL72BB	64.7	23.7	89.5	3.7	3.7
NORTHRUP-KING PX737	53.5	28.5	89.0	11.4	3.7
NORTHRUP-KING PX79	69.8	23.8	74.8	4.0	3.7
O'S GOLD SX3344	85.6	23.3	79.5	1.8	3.7
P-A-G SX 17A	66.3	23.5	92.4	4.7	3.7
PIONEER BRAND 3364	57.5	23.0	75.2	4.7	3.7
SEED KEM SKX75	49.9	27.3	79.5	3.0	3.7
GOLDEN ACRES T-E6945	53.8	20.6	77.1	5.0	4.0
MCCURDY 77-60	53.6	24.1	82.9	5.1	4.0
P.A.G. SX346	56.5	21.1	76.2	2.5	4.0
SEED KEM SKX70	52.0	22.1	80.5	1.8	4.0
TROJAN MDM 116	46.2	23.2	81.4	12.4	4.0
ACCO UC 9792	65.5	26.7	75.2	2.6	4.3
MIGRO M-600	70.4	22.6	81.4	5.1	4.3
NORTHRUP-KING PX715	70.7	26.6	72.4	13.8	4.3
PIONEER BRAND 3183	57.2	22.7	65.2	6.0	4.3
DENNIS M-18	60.5	25.6	78.1	3.1	4.7
O'S GOLD SX5353	53.8	21.9	62.9	4.4	4.7
RING AROUND RA 2601	67.0	29.2	83.8	7.8	4.7
RING AROUND RA3602	54.0	26.6	79.5	6.1	4.7
RUFF'S MOM R434	41.3	20.9	73.3	5.2	4.7
MCCURDY 72-44A	67.5	25.8	71.4	4.5	5.0
PREMIER SX688	42.4	25.0	74.3	14.4	5.0
ASGROW RX112	43.7	23.6	66.2	4.2	5.3
BO-JAC X83	42.9	24.7	74.3	9.0	5.3
S.S. HYBRIDS EXP 50	56.9	22.1	73.8	3.7	5.3
STEWART 3254	28.4	26.2	55.7	6.9	5.3
MIGRO M-5045	33.3	23.1	69.5	8.9	5.7
S S HYBRIDS 86	43.6	23.5	67.6	6.2	5.7
SECURITY SS120A	62.7	24.8	74.3	8.5	5.7
ACCO UC 8951	46.1	23.3	59.0	13.2	6.0
ADLERS 66X	41.9	22.4	63.3	6.0	6.0
SECURITY SS125	63.5	29.2	65.7	14.9	6.0
WILSTAR 9997	47.8	27.7	71.4	14.4	6.0
CHECK	47.2	22.8	69.0	6.1	6.3
O'S GOLD SX5509	36.8	25.5	52.4	24.6	6.3
BO JAC EXP. 515	14.8	22.9	37.1	40.8	8.7
<b>YELLOW AVERAGE</b>	<b>57.7</b>	<b>24.5</b>	<b>74.9</b>	<b>6.8</b>	<b>4.3</b>
<b>WHITE HYBRIDS</b>					
CHECK	69.9	27.1	81.4	2.4	2.7
FUNK'S 64747W	61.6	27.6	84.8	2.2	2.7
RING AROUND RA2602W	66.7	26.6	74.8	2.8	3.3
ZIMMERMAN Z11W	48.5	27.0	86.7	4.2	3.7
ZIMMERMAN Z52W	44.9	28.8	76.7	2.5	4.3
<b>WHITE AVERAGE</b>	<b>58.3</b>	<b>27.4</b>	<b>80.9</b>	<b>2.8</b>	<b>3.3</b>
<b>GRAND AVERAGE</b>	<b>57.8</b>	<b>24.8</b>	<b>75.5</b>	<b>6.4</b>	<b>4.2</b>

# KENTUCKY HYBRID CORN PERFORMANCE TEST-1978

C. G. PONELEIT and K. O. EVANS • PROGRESS REPORT 238

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



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TABLE 13.—CORN VIRUS TEST, NORMAL POPULATION, HODGENVILLE, KY., 1978

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
PIONEER BRAND X5505			124.4	26.6	88.6	32.8
S S HYBRIDS 86			119.5	22.1	93.8	31.9
NORTHROP-KING PX95	149.1	131.8	118.4	26.2	88.1	12.8
BO-JAC X83	131.1	115.1	109.0	20.3	96.2	11.9
DEKALB XL72B	116.6	108.1	108.6	21.7	87.6	17.4
SEED KEM SKX75			107.9	24.4	91.9	19.1
RING AROUND RA3602	121.7	111.5	106.7	24.6	87.1	9.0
SECURITY SS125	125.2	114.6	105.1	26.1	88.6	37.6
PIONEER BRAND 3364	125.9	119.1	104.8	22.5	92.4	6.9
PIONEER BRAND 3147	136.4	129.7	103.5	25.2	92.4	19.9
MCCURDY 77-60			102.7	24.3	92.4	11.7
PIONEER BRAND 3179	120.0	99.2	102.5	22.2	91.4	39.9
BO JAC EXP. 515			100.8	18.4	89.5	4.2
MUNCY CHIEF MDM803		97.3	99.5	22.2	81.4	49.3
S. S. HYBRIDS EXP 50			99.3	18.6	88.6	25.1
TROJAN MDM 116	107.3	94.4	99.0	22.3	94.8	25.1
PIONEER BRAND 3183			98.3	21.0	82.4	0.0
DENNIS M-18			96.8	23.2	87.6	22.0
DEKALB XL394	131.5	114.7	94.7	28.9	88.6	5.4
FUNK'S G4848	136.8	122.2	94.5	27.9	88.1	10.6
MCCURDY 72-44A			93.8	22.6	85.7	29.3
FUNK'S EXP 28236		115.7	92.4	24.2	87.6	13.9
CHECK		130.5	91.2	22.0	84.8	35.4
ADLERS 66X	131.6		91.1	20.6	84.8	23.0
SECURITY SS120A	124.6	109.6	90.8	22.3	91.9	31.7
DEKALB XL728B			90.0	20.6	87.6	3.8
MIGRO M-5045	112.1	98.5	89.8	19.2	88.1	12.0
WILSTAR 9997		104.5	88.6	26.8	93.3	22.5
NORTHROP-KING PX715	132.8	119.7	88.4	24.3	93.3	13.7
STEWART 3254			87.9	23.0	84.8	20.7
ACCO UC 8951		104.2	87.8	21.8	91.0	19.9
RING AROUND RA 2601	122.0	127.9	86.8	27.3	95.7	28.8
PREMIER SX688			86.3	22.1	88.1	36.7
O'S GOLD SX5509			86.0	22.6	98.6	17.4
SEED KEM SKX-68	116.7	106.1	84.5	17.9	87.1	38.8
ACCO UC 9792		116.1	84.4	21.4	82.9	9.6
P-A-G SX 17A	116.7	89.7	83.7	18.5	87.1	48.5
O'S GOLD SX5353			83.2	19.2	80.5	48.8
P.A.G. SX346			78.3	18.7	91.9	43.9
RUFF'S MDM R434		92.4	77.3	18.2	83.3	40.1
GOLDEN ACRES T-E 6947		97.3	77.1	22.6	84.8	24.2
MIGRO M-600	126.6		76.0	19.6	89.0	35.6
GOLDEN ACRES T-E6945			75.9	19.2	80.0	18.0
NORTHROP-KING PX79	158.4		75.7	20.0	91.9	19.5
SEED KEM SKX70			74.3	21.1	92.9	29.6
MCCURDY 77-28			73.9	20.4	85.2	24.6
ASGROW RX 115A		98.2	73.3	18.6	89.0	13.4
BO JAC X51			71.6	17.9	95.7	80.4
NORTHROP-KING PX737		86.1	68.3	26.4	91.0	20.6
O'S GOLD SX3344			67.7	19.8	81.4	19.7
ASGROW RX112			65.7	21.2	90.5	22.2
<b>YELLOW AVERAGE</b>	<b>127.2</b>	<b>109.4</b>	<b>90.9</b>	<b>22.1</b>	<b>88.8</b>	<b>24.3</b>
WHITE HYBRIDS						
FUNK'S G4747W		119.5	122.0	24.4	87.1	12.0
ZIMMERMAN Z52W	138.1	123.3	103.1	23.7	89.5	28.3
CHECK			94.1	25.8	87.6	14.2
ZIMMERMAN Z11W	117.5	105.5	93.3	25.7	94.3	20.3
RING AROUND RA2602W	109.0	100.3	87.7	24.2	83.3	22.4
<b>WHITE AVERAGE</b>	<b>121.5</b>	<b>112.1</b>	<b>100.0</b>	<b>24.8</b>	<b>88.4</b>	<b>19.4</b>
<b>GRAND AVERAGE</b>	<b>126.4</b>	<b>109.8</b>	<b>91.8</b>	<b>22.4</b>	<b>88.8</b>	<b>23.9</b>

TABLE 12.—THREE-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1976-1978

VARIETY	YIELD	AVG %	AVG %	TOTAL%
	BU/AC 76-78	MOIST 76-78	STAND 76-78	LODGED 76-78
<b>YELLOW HYBRIDS</b>				
<del>PIONEER BRAND 3535</del>	<del>154.6</del>	<del>18.2</del>	<del>87.9</del>	<del>4.6</del>
<del>KING AROUND RA2502</del>	<del>152.0</del>	<del>21.2</del>	<del>87.4</del>	<del>9.3</del>
PIONEER BRAND 3184	150.0	21.2	88.9	9.6
STEWART SX 77	148.4	20.1	80.4	11.3
ZIMMERMAN Z24Y	146.3	19.9	90.7	16.2
DENNIS 37	146.1	19.5	86.4	15.8
PIONEER BRAND 3369A	146.1	19.6	86.1	18.1
MCNAIR X170	143.5	20.0	88.7	5.5
MIGRO M-7072	141.9	19.9	90.5	14.4
P-A-G SX 17A	140.6	19.4	86.2	23.1
BO-JAC X83	140.4	19.8	84.6	13.8
NORTHROP-KING PX79	140.2	19.2	88.6	15.1
S S HYBRIDS 86	139.9	19.9	88.0	13.8
VORIS SEEDS V2532	139.8	19.3	88.0	17.6
WILSTAR 6663	139.4	19.7	86.0	18.7
FUNK'S G4848	138.7	23.9	84.6	12.8
SO. STATES SS727	138.2	19.7	88.8	16.8
FUNK'S G4520	138.0	19.7	87.0	14.3
NORTHROP-KING PX74	137.7	19.4	86.6	19.4
GOLD TAG 880	137.7	20.1	84.3	17.3
FUNK'S G4507	137.3	19.7	86.8	19.0
GOLD TAG 4020	136.8	20.9	87.4	17.2
COKER 16	135.8	19.6	87.6	12.1
PIONEER BRAND 3368A	135.8	19.8	88.4	16.7
TROJAN TXS 114	135.3	19.7	84.7	17.4
SUPER CROST 5440	135.1	19.3	86.3	14.4
MCNAIR X194	134.4	19.9	84.8	16.7
ADLERS 87X	133.7	20.2	85.8	15.7
ASGROW RX 90	133.5	19.5	85.7	18.3
TROJAN TXS 119	133.5	20.8	83.3	17.6
GOLDEN HARVEST H2666	132.5	20.3	84.0	16.5
DEKALB XL72AA	132.4	19.5	84.0	17.4
PREMIER SX633	132.4	19.7	85.2	17.3
SO. STATES SS775	131.9	19.8	89.4	13.3
TROJAN TXS 115A	131.5	19.6	85.1	16.0
SECURITY SS112	130.2	19.6	76.2	14.4
DEKALB XL72B	128.9	20.4	79.2	11.3
GUTWEIN 86	128.6	19.3	87.6	18.1
SEED KEM SKX-86	127.3	19.7	88.9	13.7
SEED KEM SKX-76	127.1	19.4	86.3	16.9
DEKALB XL78	126.5	20.5	89.4	15.4
GOLDEN ACRES T-E 6968	125.2	19.6	86.3	12.9
MASON 8869	122.7	20.5	83.0	16.2
O'S GOLD SX5500	116.1	20.4	79.0	18.9
MUNCY CHIEF SX808B	111.9	20.3	73.5	16.3
<b>YELLOW AVERAGE</b>	<b>135.9</b>	<b>19.9</b>	<b>85.7</b>	<b>15.3</b>
<b>WHITE HYBRIDS</b>				
ZIMMERMAN Z52W	144.7	22.0	88.2	18.2
ZIMMERMAN Z11W	140.8	22.6	89.6	20.4
SO. STATES SS950H	135.1	22.0	85.7	17.6
FUNK'S G4747W	135.0	22.4	88.0	21.4
PRINCETON SX 510	132.4	22.4	85.1	19.0
GOLDEN HARVEST H2660	128.6	22.2	77.2	19.5
<b>WHITE AVERAGE</b>	<b>136.1</b>	<b>22.3</b>	<b>85.7</b>	<b>19.3</b>
<b>GRAND AVERAGE</b>	<b>135.9</b>	<b>20.2</b>	<b>85.7</b>	<b>15.7</b>

# Kentucky Hybrid Corn Performance Test

## 1978

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

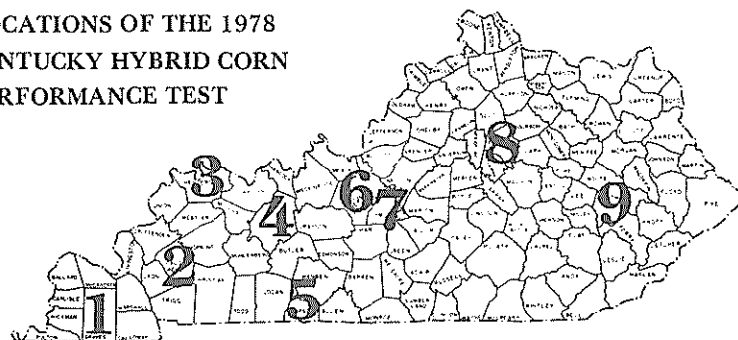
The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. Every effort has been made to conduct the test in an unbiased manner according to accepted agronomic practices.

### PRESENTATION OF DATA

Complete 1978 data are presented for the normal population test at each location. Two-year and three-year averages for yield are included in each of the single-location tables. Readers are encouraged to consider these multiple year averages and the averages over locations (Tables 10, 11, and 12) since these are better estimates of a hybrid's relative yield ability than data gathered at one location in one year.

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

LOCATIONS OF THE 1978  
KENTUCKY HYBRID CORN  
PERFORMANCE TEST



## TESTING PROCEDURE

### SELECTION OF HYBRIDS

The hybrids chosen for testing are those most likely to be available for sale in 1979. Seed of each commercial hybrid (Table 1) was obtained from the sponsoring company.

Those hybrids grown in the corn virus tests are indicated in column 2 of Table 1. The hybrid corn companies were asked to nominate those hybrids known to have virus resistance for inclusion in the virus test.

### LOCATION OF TESTS

The map on page 3 shows the location for each test. The non-virus test sites were selected to represent different agroclimatic areas of the state where corn is a major crop commodity. The Henderson and Hodgenville sites are specifically for the presence of corn virus in diverse areas of the state and should represent differences in virus populations. The 1976 data for Table 13 are from the 1976 Russellville location.

### 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. All test areas were treated with herbicide and supplemented by post-emergence cultivation when necessary. Except for the virus tests, Furadan was applied in the row at planting. Table 2 shows the specific cultural treatment for each location.

### EXPERIMENTAL DESIGN

Each hybrid was grown in three separate plots at each location to sample uncontrollable variability of soil types, fertility, and other factors. Annual mean yields presented in Tables 3 through 14 are the average of three replications at that test site

Table 11 (continued)

VARIETY	YIELD BU/AC 77-78	AVG % MOIST 77-78	AVG % STAND 77-78	TOTAL % LODGED 77-78
<b>YELLOW HYBRIDS</b>				
FUNK'S G4520	124.0	19.6	86.2	19.0
MCNAIR X194	123.8	19.5	81.4	22.0
DENNIS 69	123.7	19.9	83.6	26.0
GUTWEIN 72	123.7	19.5	81.5	19.0
TROJAN TXS 114	123.5	19.7	84.8	23.5
PRINCETON SX 840	122.8	20.8	85.5	13.5
DEKALB XL72B	122.0	20.6	79.0	14.6
GOLDEN HARVEST H2666	121.8	20.0	81.5	21.3
ACCO UC 9792	121.3	21.2	80.8	18.1
SO. STATES SS775	120.2	19.9	87.6	17.0
ASGROW RX 90	120.1	19.4	83.9	24.9
DEKALB XL72AA	119.5	19.6	82.3	23.6
SO. STATES SS730	119.2	19.7	83.5	19.9
GUTWEIN 86	118.7	19.5	85.3	20.8
O'S GOLD SX5500	117.6	20.4	82.2	22.4
DEKALB XL75A	117.4	20.3	84.4	19.3
RING AROUND RA1501	116.7	19.1	82.3	20.1
SEED KEM SKX-86	115.6	19.6	87.6	17.7
DEKALB XL7B	115.0	20.4	88.2	19.3
PREMIER SX633	114.2	19.7	82.8	23.2
GOLDEN ACRES T-E 6968	113.4	19.3	82.5	16.3
MASON 8869	112.7	20.7	80.7	20.8
SECURITY SS112	110.9	19.3	70.4	19.9
P-A-G 314	110.4	19.2	77.9	23.8
MUNCY CHIEF SX808B	99.6	20.0	66.9	20.7
<b>YELLOW AVERAGE</b>	<b>125.7</b>	<b>19.9</b>	<b>84.2</b>	<b>20.3</b>
<b>WHITE HYBRIDS</b>				
ZIMMERMAN Z52W	131.7	21.7	86.5	23.8
ZIMMERMAN Z11W	125.9	22.2	87.4	26.5
FUNK'S G4747W	121.2	22.1	86.0	26.3
PRINCETON SX 910	119.8	21.8	85.4	25.0
SO. STATES SS950W	119.0	21.4	83.6	22.5
GOLDEN HARVEST H2660	114.0	21.9	73.8	24.3
<b>WHITE AVERAGE</b>	<b>121.9</b>	<b>21.9</b>	<b>83.8</b>	<b>24.7</b>
<b>GRAND AVERAGE</b>	<b>125.4</b>	<b>20.1</b>	<b>84.1</b>	<b>20.7</b>

TABLE 11.—TWO-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1977-1978

VARIETY	YIELD BU/AC 77-78	AVG % MOIST 77-78	AVG % STAND 77-78	TOTAL % LODGED 77-78
YELLOW HYBRIDS				
STEWART SX 77	143.4	20.1	81.1	14.4
PIONEER BRAND 3184	142.8	21.2	89.9	12.7
PIONEER BRAND 3369A	140.1	19.5	85.8	21.0
ZIMMERMAN Z24Y	136.6	19.9	88.5	19.5
HOBLIT XR441A	135.5	20.3	82.3	17.0
S S HYBRIDS 5100	135.4	19.6	83.8	21.0
ZIMMERMAN Z20Y	134.8	20.9	90.8	27.1
MIGRO M-7072	134.3	19.8	89.2	18.2
COLBERT 310	134.3	19.2	87.1	22.7
BO-JAC X83	133.8	19.9	82.5	17.3
RUFF'S R334	133.4	20.0	86.6	20.9
S S HYBRIDS 86	133.1	19.8	85.9	17.4
DENNIS 37	132.9	19.4	84.1	21.1
COKER 22	132.6	20.8	88.2	17.4
ACCO UC 8951	131.6	20.9	85.6	23.2
S S HYBRIDS 6400	130.5	19.3	79.4	14.9
WILSTAR 6663	130.5	19.7	84.4	23.1
BO-JAC X923	130.3	20.6	86.4	20.8
PIONEER BRAND 3368A	129.8	19.9	87.1	17.4
NORTHROP-KING PX79	129.6	19.0	87.2	20.8
RING AROUND RA1502	129.3	20.4	81.1	17.3
SUPER CROST 6800	128.3	19.8	82.9	21.9
GOLD TAG 880	128.3	19.9	84.4	21.0
GOLD TAG 4020	127.9	21.0	84.0	19.0
ADLERS 87X	127.8	19.8	84.5	19.0
ADLERS 62X	127.8	19.7	89.1	24.7
P-A-G SX 17A	127.5	19.3	84.5	30.2
GOLDEN ACRES T-E 6995	127.4	19.2	86.6	24.2
FUNK'S G4507	127.3	19.7	85.1	25.5
FUNK'S G4848	127.0	23.5	85.0	16.3
COKER 16	126.6	19.6	87.2	15.1
VORIS SEEDS V2532	126.5	19.3	85.9	24.5
SO. STATES S5727	126.1	19.5	87.8	22.7
SEED KEM SKX-76	126.0	19.4	86.4	20.6
SUPER CROST 5440	125.8	19.3	86.7	18.6
TROJAN TXS 119	125.8	20.8	81.4	20.0
TROJAN TXS 115A	125.6	19.5	85.9	20.4
NORTHROP-KING PX74	125.5	19.5	84.8	25.6
SECURITY S7-111	124.3	19.1	85.3	19.6

(continued)

while 2-year and 3-year means are averages of six and nine replications, respectively. Means from the 1978 tests are from Randomized Complete Block analyses, while previous years' means are from analyses of lattice designs.

## PLANTING

All plots were planted with a two-row, no-till planter modified for small plot work. The planter boxes were replaced by special planting cones which allowed planting of a specified number of kernels per plot. Each plot consisted of two rows 38 inches apart and 22 feet long. Each normal population, conventional tillage test was planted at the rate of 22,000 kernels per acre. The normal population, no-till test was planted at 25,000 kernels per acre. Final stands were expected to be between 19,000 and 20,000 plants per acre if average stand losses occurred.

## HARVESTING

All plots were harvested with a modified two-row self-propelled corn combine. Both rows of each two-row plot were picked, shelled, and the grain collected in a metal container. The grain weight and moisture content of each plot were then measured with a portable scale and moisture meter. Yields were calculated and adjusted to No. 2 corn at 15.5% moisture. Dropped ears were not gleaned from the plots. The number of plants were recorded immediately prior to harvest.

## CORN VIRUS

Two corn virus diseases occur in Kentucky: maize dwarf mosaic virus (MDM) and maize chlorotic dwarf virus (MCD). Both overwinter in Johnsongrass and are usually present as a virus complex. Preliminary laboratory tests of Johnsongrass rhizomes indicated the presence of MDM and MCD at the Henderson location and MDM at the Hodgenville location. During the growing season, symptoms of MDM and MCD appeared on plants at the Henderson location but few plants had virus symptoms at the Hodgenville location.

Visual ratings of virus symptoms were made at the Henderson location but not the Hodgenville location and are included with yield and other data in Table 14. Even though the virus did little apparent damage to the hybrids at the Hodgenville location the yield data are presented in Table 13 and may be used to compare the yield potential of these potentially virus-resistant hybrids under low-level virus conditions. The virus ratings in Table 14 are on a 0 to 9 scale. A rating of 0 means that the plants showed no virus symptoms while a rating of 9 means that nearly all plants had very severe symptoms and would likely produce no grain. Intermediate values represent degrees of virus resistance or susceptibility.

Two virus-susceptible check hybrids were included in the virus tests. Their average performance is listed in Tables 13 and 14 as Susceptible Checks.

#### NOTES ABOUT THE GROWING SEASON

##### MAYFIELD:

The Mayfield test was planted on April 28 and harvested on September 26. Precipitation was above average for the first four weeks after planting but severe shortages occurred during June and July. Loss of herbicide activity because of the heavy, early rainfall, drought during the pollination and grain filling period, and heavy European Corn Borer infestation contributed to the low yields at this location.

##### PRINCETON:

The Princeton test was planted on May 24 and harvested on September 28. Except for August, precipitation was relatively short throughout the growing season. Recorded precipitation amounts from June through September were 1.21, 2.19, 4.23 and 0.4 inches, respectively. Temperatures were relatively high; 23 days of greater than 95°F and four days of more than 100°F. Weed control was excellent and disease or insect problems were minimal.

Table 10 (continued)

VARIETY	YIELD	AVG %	AVG %	TOTAL %
	BU/AC 1978	MOIST 1978	STAND 1978	LOGGED 1978
<b>YELLOW HYBRIDS</b>				
FUNK'S G4520	119.4	21.2	84.8	7.0
RING AROUND RA1502	119.4	22.2	77.2	3.5
MIGRO M-7110	119.1	21.3	84.4	9.3
SO. STATES SS730	118.9	21.5	82.4	5.8
PIONEER BRAND 3535	118.6	19.6	83.6	4.4
P-A-G SX 333	118.3	20.7	81.2	4.7
PRINCETON SX 840	118.3	23.2	84.2	9.5
GOLDEN HARVEST H2666	118.3	21.7	79.0	7.1
DEKALB XL75A	118.2	22.3	84.4	4.7
RING AROUND RA 2501	118.1	21.7	81.9	6.6
DENNIS DS39	118.1	22.5	83.1	9.4
SEED KEM SKX-80	118.0	21.5	84.3	11.5
FUNK'S G4848	117.9	26.0	82.5	4.8
DEKALB XL72AA	117.3	21.1	79.0	7.4
TROJAN TXS 114	117.1	21.3	83.1	10.5
DEKALB XL72B	117.1	23.5	80.1	7.9
COKER 16	116.5	21.4	86.9	9.2
RING AROUND RA1501	116.0	20.5	79.4	6.1
ASGROW RX 90	115.7	20.9	81.7	7.7
GUTWEIN 86	115.6	21.4	82.5	12.1
O'S GOLD SX5500	115.3	22.4	80.4	8.2
TROJAN TXS 119	115.1	22.7	78.5	5.9
SO. STATES SS830	114.5	21.8	86.6	6.5
BO-JAC X56S	114.3	21.2	74.9	6.3
SECURITY S7-111	113.6	20.7	84.1	7.0
PREMIER SX633	113.4	21.7	83.8	9.7
GUTWEIN 72	113.3	20.7	75.0	7.3
MASON 8866	113.1	20.9	61.9	6.4
P-A-G 314	112.8	20.9	80.3	12.4
SEED KEM SKX-86	111.8	21.4	86.5	9.8
SO. STATES SS775	110.0	21.9	86.3	9.7
WILSTAR 9990	109.8	23.6	77.9	15.8
MASON 8869	109.3	22.2	80.2	11.3
MCNAIR X170	108.6	20.9	82.9	13.6
VORIS SEEDS V2542	108.1	21.3	72.8	10.6
DEKALB XL75	108.1	21.5	80.4	7.7
GUTWEIN 74	107.7	21.8	74.1	13.4
MIGRO M-6666	106.5	21.3	87.8	6.5
ACCO UC 9792	105.7	23.3	75.3	8.0
DEKALB XL78	105.3	22.2	85.4	11.2
GOLDEN ACRES T-E 6968	104.8	20.8	78.3	11.6
ASGROW RX88	94.7	20.9	75.6	8.4
MUNCY CHIEF SX8088	78.9	21.4	53.7	8.3
<b>YELLOW AVERAGE</b>	<b>120.6</b>	<b>21.7</b>	<b>82.4</b>	<b>8.3</b>
<b>WHITE HYBRIDS</b>				
ZIMMERMAN Z52W	125.6	24.1	84.6	11.1
ZIMMERMAN Z11W	125.5	24.8	86.5	9.9
FUNK'S G4747W	124.1	24.4	86.1	13.0
PRINCETON SP936	121.7	24.2	83.7	8.9
PRINCETON SX 910	115.0	24.2	84.1	12.3
SO. STATES SS950W	113.5	23.9	84.0	9.9
P-A-G SX 70W	112.5	24.5	83.6	22.2
GOLDEN HARVEST H2660	108.9	24.4	76.9	13.8
<b>WHITE AVERAGE</b>	<b>118.4</b>	<b>24.3</b>	<b>83.7</b>	<b>12.6</b>
<b>GRAND AVERAGE</b>	<b>120.5</b>	<b>21.9</b>	<b>82.5</b>	<b>8.6</b>

TABLE 10.--ANNUAL SUMMARY, ALL NON-VIRUS LOCATIONS, 1978

VARIETY	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS				
COLBERT 345	137.2	22.9	87.8	10.1
RUFF'S R334	137.1	22.0	86.8	7.0
PIONEER BRAND 3184	135.0	22.9	88.7	6.2
NORTHROP-KING PX95	135.0	24.2	84.4	8.0
WILSTAR 6663	133.4	21.2	88.9	7.5
STEWART SX 77	133.1	21.9	73.5	3.7
ZIMMERMAN Z24Y	132.8	21.4	85.5	7.2
BO-JAC X83	132.7	21.4	82.3	7.7
PIONEER BRAND 3311	132.6	22.4	86.8	7.6
MIGRO M-0707	132.0	22.7	83.4	6.5
PIONEER BRAND 3369A	131.8	21.1	84.5	11.4
ZIMMERMAN Z20Y	131.1	22.9	91.1	14.6
RING ARQJND RA2502	131.1	23.4	85.0	6.9
VORIS SEEDS V2601	130.2	21.1	85.1	9.9
S S HYBRIDS 86	129.7	21.5	86.9	4.7
MIGRO M-7072	129.2	21.7	87.8	7.2
MUNCY CHIEF SX776	128.9	21.0	86.7	8.2
S S HYBRIDS 5100	128.4	21.6	83.0	8.3
ZIMMERMAN Z22Y	128.4	23.2	84.1	5.8
FUNK'S G4507	128.2	21.2	81.9	5.1
NORTHROP-KING PX87	128.0	23.1	81.2	5.7
ASGROW RX98	127.8	20.6	82.6	10.7
STEWART 6973	127.7	22.8	78.6	8.5
ACCO UC 8951	127.7	23.0	83.0	7.6
STEWART 6573	126.7	23.2	85.9	11.9
P-A-G SX 17A	126.4	20.7	84.9	10.5
GOLD TAG 880	126.4	21.6	83.7	7.3
DENNIS-37	125.9	21.1	81.2	7.5
NORTHROP-KING PX79	125.7	20.4	85.0	7.5
PREMIER SX639	125.4	23.2	83.7	10.3
O'S GOLD SX5509	125.3	22.8	86.2	8.1
BO-JAC X923	125.1	22.5	84.1	10.4
GOLDEN ACRES T-E 6995A	125.0	21.2	82.4	9.6
SECURITY SS112	124.8	21.3	81.9	8.1
HOBLLIT XR441A	124.5	22.1	76.8	6.2
GOLDEN HARVEST H2500	123.9	21.8	83.9	7.3
SUPER CROST 5440	123.9	21.0	86.2	7.1
GOLD TAG 4020	123.9	22.9	84.7	6.5
GOLDEN ACRES T-E 6995	123.4	20.9	86.3	12.8
PIONEER BRAND 3368A	123.4	21.5	86.7	7.6
PIONEER BRAND 3183	123.4	21.9	76.5	6.1
MCCURDY MSX84	122.9	21.5	84.2	5.9
COKER 22	122.4	22.7	85.1	10.6
NORTHROP-KING PX74	122.0	21.0	82.0	6.8
VORIS SEEDS V2532	122.0	20.8	83.3	5.3
FUNK'S G4709	121.9	22.0	85.1	8.4
SUPER CROST 6800	121.8	21.8	80.1	7.3
SO. STATES SS727	121.6	21.0	85.5	8.8
ADLERS 62X	121.4	21.4	87.4	14.8
SUPER CROST 5330	121.5	20.3	86.1	11.3
COLBERT 310	121.2	20.6	86.0	8.1
SEED KEM SKX-76	121.1	20.9	85.5	7.4
RUFF'S R300	120.8	20.8	86.5	7.2
TROJAN TXS 115A	120.7	20.9	83.8	7.5
MENAIR X194	120.6	21.4	83.2	6.2
ADLERS 87X	120.5	21.4	82.3	7.4
DENNIS 69	120.2	21.4	79.0	8.2
S S HYBRIDS 6400	120.2	21.2	77.2	6.8
HOBLLIT XR448A	119.7	21.4	87.2	8.1

(continued)

## HARTFORD:

The Hartford test was planted on May 22 and harvested on October 11. Precipitation amounts for May (22-31), June, July, August, September and October (1-11) were 1.5, 2.0, 8.7, 4.8, 0.7, and 1.3 inches, respectively. European Corn Borer and a late season attack of southern leaf blight (*H. maydis*) were observed, but neither did major damage.

## HENDERSON:

The Henderson test was planted on May 30 and harvested on October 12. Precipitation was adequate during June and early July but was deficient during the remainder of the growing season. High temperatures during the latter part of the growing season may have affected yields. The plot area was cultivated once and hand weeded twice to control the large amount of Johnsongrass that was not eliminated by the herbicide treatment.

## ELIZABETHTOWN:

The Elizabethtown test was planted no-till on April 17 and harvested on October 2-4. Cool, dry weather immediately following planting may have accentuated germination and seedling emergence problems. Precipitation was adequate for the last half of the growing season. Minor bird damage was observed but disease and insect problems were negligible.

## FRANKLIN:

The Franklin test was planted on April 13 and harvested on October 4 and 5. Precipitation was adequate until mid-July but deficient thereafter. European Corn Borer damage was significant and caused substantial lodging.

## QUICKSAND:

The Quicksand test was planted on May 19 and harvested on October 19 and 20. Growing conditions were good throughout the entire season. Disease and insect problems were minor although virus diseases were observed late in the season.

**HODGENVILLE:**

The Hodgenville test was planted on June 2 and harvested on October 25. Precipitation amounts for June through October were 2.7, 2.2, 8.9, 1.4 and 3.2 inches, respectively. Some damage caused by European Corn Borer was observed. Although this test site was selected for the presence of corn virus diseases and infected Johnsongrass was present, development of virus symptoms on the corn plants was minimal.

**LEXINGTON:**

The Lexington test was planted on May 20 and harvested on October 16-18. Precipitation amounts for May (20-31), June, July, August, September and October (1-18) were 0.8, 2.4, 4.7, 7.2, 0.9, and 2.9 inches, respectively. Rain and wind caused heavy lodging on July 31. Heavy European Corn Borer infestation caused additional lodging.

Table 9 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
<b>YELLOW HYBRIDS</b>					
TROJAN TXS 115A	133.3	138.7	22.4	90.5	0.0
PIONEER BRAND 3369A	141.8	138.6	20.1	81.0	3.8
HOBLIT XR441A		138.3	21.9	86.7	1.5
SEED KEM SKX-76	130.6	138.2	21.1	95.2	2.9
RING AROUND RA 2501		136.1	21.4	93.8	0.0
P-A-G SX 333		135.7	22.6	87.1	0.0
RING AROUND RA1501		135.6	21.9	82.9	3.8
MCNAIR X170	128.6	135.5	22.1	86.7	0.0
COKER L6	135.9	135.3	21.6	88.6	2.3
ADLERS 87X	111.0	134.8	22.1	86.7	1.1
PIONEER BRAND 3535	141.5	134.7	18.5	89.0	0.5
MASON 8866		134.6	21.4	74.3	1.8
GOLD TAG 4020	118.3	133.6	22.0	86.2	2.7
FUNK'S G4507	147.2	133.3	23.5	80.5	1.2
BO-JAC X565		132.6	22.3	68.1	0.0
MCNAIR X194	125.6	132.4	22.5	88.6	7.1
COLBERT 310		132.3	22.0	89.1	0.0
SO. STATES SS830		130.4	22.5	91.0	1.1
P-A-G SX 17A	140.9	128.3	19.5	81.0	2.4
DEKALB XL75A		127.9	23.4	86.7	1.7
SO. STATES SS775	132.9	126.9	22.0	83.3	4.3
GUTWEIN 74		126.7	22.1	81.9	2.3
ASGROW RX98		126.6	19.9	83.8	5.4
BO-JAC X83	121.3	126.4	22.2	69.0	1.9
MIGRO M-6666		126.4	22.2	91.9	0.5
DEKALB XL75		126.3	21.7	84.8	2.9
DENNIS 69		125.0	22.3	82.9	1.7
VORIS SEEDS V2542		124.7	21.5	78.6	1.7
ACCO UC 9792		123.8	23.9	74.3	0.5
FUNK'S G4709		122.9	23.0	76.2	11.8
GUTWEIN 86	98.1	122.6	22.0	82.4	4.6
FUNK'S G4848	145.1	121.4	25.3	85.7	0.0
RING AROUND RA2502	112.2	120.5	23.3	84.8	3.8
MASON 8869	123.1	120.4	22.6	85.7	1.7
P-A-G 314		120.5	19.5	81.0	2.3
SUPER CROST 6800		120.4	21.6	84.3	5.1
DEKALB XL78	127.7	120.1	22.2	83.8	7.0
GOLDEN ACRES T-E 6968	127.8	117.3	21.2	77.6	2.2
ASGROW RX 90	131.7	116.5	21.8	73.3	0.6
TROJAN TXS 115	92.9	108.4	23.7	77.1	6.4
O'S GOLD SX5500	65.0	95.2	21.6	87.1	20.3
MUNCY CHIEF SX8088	99.8	84.3	21.8	65.7	9.0
ASGROW RX88		83.2	20.2	61.4	3.8
<b>YELLOW AVERAGE</b>	<b>136.7</b>	<b>139.8</b>	<b>22.1</b>	<b>85.6</b>	<b>2.4</b>
<b>WHITE HYBRIDS</b>					
PRINCETON SX 910	166.1	169.1	23.7	89.5	0.0
FUNK'S G4747W	173.2	158.1	24.7	88.1	0.0
ZIMMERMAN Z11W	173.6	154.8	24.3	95.2	0.0
ZIMMERMAN Z52W	163.9	149.9	23.8	91.0	0.0
GOLDEN HARVEST H2660	160.9	144.0	24.4	87.6	0.0
PRINCETON SP936		139.5	24.4	90.0	0.0
SO. STATES SS950W	164.5	138.5	23.9	85.2	1.1
P-A-G SX 70W		119.8	24.9	81.0	3.4
<b>WHITE AVERAGE</b>	<b>167.0</b>	<b>146.7</b>	<b>24.2</b>	<b>88.5</b>	<b>0.6</b>
<b>GRAND AVERAGE</b>	<b>140.3</b>	<b>140.3</b>	<b>22.3</b>	<b>85.8</b>	<b>2.2</b>



TABLE 9.—ANNUAL SUMMARY, NORMAL POPULATION, QUICKSAND, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS					
ZIMMERMAN Z20Y		173.1	23.5	96.7	1.0
DENNIS 37	173.6	170.7	22.1	95.2	2.5
COLBERT 345		168.0	23.2	94.3	4.6
S S HYBRIDS 5100		167.3	23.1	93.3	5.5
ACCO UC 8951		165.4	22.5	81.9	5.8
STFWART 6973		163.8	22.6	82.9	1.9
NORTHROP-KING PX79	171.0	162.7	21.1	92.9	0.6
STEWART 6573		161.3	22.3	91.4	2.2
DEKALB XL72AA	153.1	160.2	22.5	89.5	0.5
ZIMMERMAN Z24Y	155.0	159.1	21.5	86.2	2.3
MCCURDY MSX84		158.5	22.6	89.5	2.7
S S HYBRIDS 6400		157.5	21.6	75.2	0.0
GOLD TAG 880	146.8	156.3	21.8	87.6	2.3
PIONEER BRAND 3311		155.7	22.4	87.1	7.0
GOLDEN HARVEST H250J		155.4	22.3	87.1	1.1
SO. STATES SS727	154.0	155.4	22.3	92.4	0.0
STEWART SX 77	153.9	155.2	22.0	87.6	0.0
NORTHROP-KING PX95		155.0	24.0	94.8	0.0
GOLDEN ACRES T-E 6995		154.9	22.7	88.1	4.7
SUPER CROST 5440	143.7	154.7	23.0	91.4	6.7
NORTHROP-KING PX74	143.0	153.9	21.9	91.9	1.0
PIONEER BRAND 3368A	121.2	152.4	20.9	95.7	4.9
GOLDEN ACRES T-E 6995A		152.0	22.1	86.7	0.6
SECURITY S7-1111		151.6	21.8	93.8	0.5
RUFF'S R300		151.2	21.9	89.0	2.6
MIGRO M-7Q72	143.6	151.1	21.5	83.3	0.5
PREMIER SX639		150.8	22.3	88.6	0.5
PIONEER BRAND 3184	161.6	150.8	22.7	92.4	1.1
WILSTAR 6663	144.6	150.2	22.0	90.5	0.5
VORIS SEEDS V2532	160.1	149.6	22.4	91.9	0.0
GOLDEN HARVEST H2666	138.1	148.4	21.6	84.3	0.0
RUFF'S R334		147.1	21.7	87.6	0.6
MIGRO M-7110		146.8	22.7	91.0	0.6
NORTHROP-KING PX87		146.7	24.0	73.3	1.2
ADLERS 62X		146.6	20.3	91.0	4.2
S S HYBRIDS 86	148.4	146.2	21.5	92.9	0.5
SECURITY SS112	165.5	145.7	22.7	88.1	5.1
ZIMMERMAN Z22Y		144.7	22.6	83.3	0.5
VORIS SEEDS V2601		144.5	21.5	88.1	3.2
FUNK'S G4520	156.6	144.0	21.2	92.9	1.6
COKER 22		143.6	22.5	93.3	0.6
TROJAN TXS L14	146.5	143.5	22.0	85.2	0.6
PIONEER BRAND 3183		143.4	21.0	79.0	0.0
DEKALB XL72B	141.2	143.4	21.5	86.2	1.7
PREMIER SX633	151.4	143.0	22.1	87.6	0.5
MUNCY CHIEF SX776		142.8	22.8	86.7	2.2
GUTWEIN 72		142.4	21.4	71.0	0.6
DENNIS DS39		142.4	23.8	87.6	5.4
SO. STATES SS730		141.8	22.4	79.0	1.8
SUPER CROST 5330		141.0	21.9	86.2	0.5
HOBBLIT XR448A		140.4	21.5	91.0	0.5
MIGRO M-0707		140.1	22.9	71.9	5.8
SEED KEM SKX-80		139.8	21.5	89.0	2.2
WILSTAR 9990		139.5	23.8	91.4	0.0
RING AROUND RA1502		139.4	22.5	70.5	0.6
BO-JAC X923		139.4	23.3	88.1	2.7
PRINCETON SX 840		139.1	22.7	92.9	0.0
SEED KEM SKX-86	146.5	139.0	20.9	92.9	0.5
O'S GOLD SX5509		138.9	23.7	90.0	1.3

(continued)

TABLE 1.—HYBRIDS TESTED IN 1978

Hybrid	Test*	Color	Cross**	Source of Hybrid
A.C.C.O.	UC 8951	AB	2X	ACCO Seed, Div. of Anderson, Clayton & Co., P.O. Box 9 Belmont, Ia. 50821
	UC 9792	AB	2X	
Adlers	62X	A	2X	Adlers Seeds Inc. Route #1
	87X	A	2X	Sharpville, Ind. 46068
	66X	B	2X	
Asgro	RX 90	A	2X	Asgro Seed Co. P.O. Box 1059
	RX 88	A	2X	9001 Hickman Rd. Dec Moines, Ia 50053
	RX 98	A	2X	
	RX 112	B	2X	
	RX 115A	B	2X	
Bo-Jac	X365	A	2X	Bo-Jac Hybrid Corn Co., R.R. #2 Mount Pulaski, Ill. 62548
	X83	AB	2X	
	X923	A	2X	
	X31	B	2X	
	Exp. 515	B	2X	
Coker	16	A	2X	Coker's Pedigreed Seed Co., P.O. Box 340, Hartsville, Sc 29550
	22	A	2X	
Colbert	310	A	2X	Colbert Farms R.R. #2 Washington, Ind. 47501
	345	A	2X	
DeKalb	XL 72AA	A	2X	DeKalb Ag. Research DeKalb, Ill. 60015
	XL 72B	AB	2X	
	XL 72BB	B	2X	
	XL 75	A	2X	
	XL 75A	A	2X	
	XL 78	A	2X	
	XL 39A	B	2X	
Dennis	DS 37	A	2X	Dennis Hybrid Corp. P.O. Box 487 Windfall, Ind. 46076
	DS 39	A	2X	
	DS 69	A	2X	
	DS M-18	B	2X	

\* A = Performance Test - Normal Population, B = Virus Test - Normal Population.

\*\* 2X = Single Cross, 2X(Mod) = Modified Single Cross, 3X = Three-Way Cross, 4X = Double Cross, Sp X = Special Cross.

Table 1 (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
Funk's	G-4507	A	2X	Funk's Seeds Internat'l., 1300 Washington St. Bloomington, Ill. 61701
	G-4520	A	2X	
	G-4709	A	2X	
	G-4848	AB	2X	
	G-4747R	AB	Sp X	
	Exp. 28236	B	2X	
Cold Tag	4020	A	2X	Ferry Morse Seeds P.O. Box 24 Geneseo, Ill. 61254
	880	A	2X	
Golden Acres	T-E 6968	A	2X	Taylor-Evans Seed Co. P.O. Box 68 Tullia, Tx. 79088
	T-E 6995	A	2X	
	T-E 6995A	A	2X	
	T-E 6945	B	2X	
	T-E 6947	B	2X	
Golden Harvest	H2500	A	2X	Columbiana Seed Co. Elard, Ill. 62027
	H2666	A	2X	
	H2660W	A	2X	
Gutwein	72	A	2X	Fred Gutwein & Sons, Inc., Rt. #1, Box 40 Francaville, Ind. 47946
	74	A	2X	
	86	A	2X	
Hobbit	XR441A	A	2X	Hobbit Seed Co. Atlanta, Ill. 61723
	XR448A	A	2X	
Mason	8866	A	2X	Mason Hybrid Corn Co. Rt. #1 Princeton, Ky. 42465
	8869	A	2X	
McCurdy	MSX84	A	2X	McCurdy Seed Co. Fremont, Ia. 52561
	72-28	B	2X	
	72-46	B	2X	
	72-44A	B	2X	
McHair	X170	A	2X	McHair Seed Co. P.O. Box 706 Laurinburg, N.C. 28352
	X194	A	2X	
Migro	M-0707	A	2X	Migro Hybrids P.O. Box 7 Mitchell, Ind. 47446
	M-5045	B	2X	
	M-6666	A	2X	
	M-7110	A	2X	
	M-6000	B	2X	
	M-7072	A	2X	

Table 1 (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
Nancy Chief	SV776	A	2X	Nancy Chief Hybrids
	SV808B	A	2X	Karlee & High Streets
	MM1 803	B	2X	Nancy, Pa. 17736
Northrup-King	PX74	A	2X	Northrup-King & Co.
	PX79	AB	2X	1200 Jackson St. N.W.
	PX87	A	2X	Minneapolis, Minn.
	PX95	AB	2X	55402
	PX715	B	2X	
	PX737	B	2X	
O's Gold	SV500	A	2X	O's Gold Seed Co.
	SV509	AB	2X	P.O. Box 460
	SV344	B	2X	Farmersburg, Ia.
	SV353	B	2X	50665
	SV17A	AB	2X	P.A.G. Hybrids
P.A.G.	314	A	2X	P.O. Box 9480
	333	A	2X	Dept. 16
	SV346	B	2X	(Mod) Minneapolis, Minn.
	SV70W	A	2X	55440
	3147	B	2X	(Mod) Pioneer Hi-Bred, Inc.
Pioneer Brand	3179	B	2X	221 N. Main St.
	3183	AB	2X	Tipton, Ind. 46072
	3184	A	2X	
	3311	A	2X	(Mod)
	3364	B	2X	(Mod)
Premier	SV633	A	2X	Premier Hybrids
	SV639	A	2X	Rt. #5, Box 222X
	SV688	B	2X	Acron, Ind. 46259
	SV840	A	2X	Princeton Farms
	SP936	A	Sp X	P.O. Box 319
Princeton	RA1501	A	2X	Princeton, Inc. 47670
	RA1502	A	2X	
	RA2501	A	2X	Ring Around Products, Inc., Research
	RA2502	A	2X	(Mod) Division, P.O. Box 589
	RA2601	B	2X	(Mod) Montgomery, Ala. 36101
Ring Around	RA3602	B	2X	Yellow 3K
	RA2602N	B	2X	(Mod) White 2K
	R-300	A	2X	Ruff's Seed Farms
	R-334	A	2X	Amanda, Ohio 43102
	MM R-434	B	2X	

Table 1 (continued)

Hybrid	Test*	Color	Cross**	Source of Hybrid
S.S. Hybrids	86	AB	2X	S.S. Hybrids
	3400	A	2X	P.O. Box 54
	6400	A	2X	Camden, Ind. 46917
Security	Exp. 50	B	2X	
	SV112	A	2X	Security Seed Co.
	SV7-111	A	2X	P.O. Box 630
	SV120A	B	2X	Williamsburg, Ia.
	SV123	B	2X	52361
Seed Kem	SVX-68	B	2X	Seed Kem, Inc.
	SVX-76	A	2X	526 W.M. Fourth St.
	SVX-80	A	2X	Evansville, Ind.
	SVX-86	A	2X	47701
	SVX-70	B	2X	
So. States	SVX-75	B	2X	
	SV727	A	2X	Southern States Coop., Inc., 2600 Durham St.
	SV730	A	2X	Richmond, Va. 23220
	SV775	A	2X	
	SV830	A	2X	
Stewart	SV950N	A	3X	
	SV 77	A	2X	Stewart Hybrids
	3254	B	2X	Princetonville, Ill.
	6373	A	2X	61559
	6973	A	2X	
Super Crost	5130	A	2X	(Mod) Edw. J. Funk & Sons, Inc., P.O. Box 67
	5440	A	2X	Kentland, Ind. 47951
	6800	A	2X	(Mod) Windfall, Ind. 46076
Trojan	TXS114	A	2X	Pfizer Genetics, Inc.
	TXS115A	A	2X	P.O. Box 367
	TXS119	A	2X	Windfall, Ind. 46076
	MM1 116	B	2X	
	V2532	A	2X	Voris Seeds, Inc.
Voris	V2542	A	2X	Box 487
	V2601	A	2X	Windfall, Ind. 46076
	6663	A	2X	Wilstar Seeds
	9990	A	2X	P.O. Box 1393
	9997	B	2X	Des Moines, Ia. 50303
Zimmerman	Z11W	AB	2X	Zimmerman Hybrids, Inc., Rt. #2
	Z20Y	A	2X	Evansville, Ind.
	Z22Y	A	2X	47712
	Z24Y	A	2X	
	Z32N	AB	2X	

Table 8 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD PU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
NORTHROP-KING PX79	131.1	116.7	108.8	21.8	88.6	26.4
GOLDEN HARVEST P2666	132.2	118.5	107.3	22.6	87.1	21.0
DEKALB XL72B	126.8	115.4	107.3	22.9	85.2	16.4
STEWART 6973			106.6	24.4	81.0	18.0
PRINCETON SX 840		114.2	106.6	25.8	84.8	42.7
BO-JAC X56S			106.5	23.6	84.8	18.2
DEKALB XL72AA	140.4	123.5	106.0	21.9	91.4	26.6
S S HYBRIDS 6400		123.5	105.7	22.9	86.7	9.2
VORIS SEEDS V2532	131.5	109.4	105.3	22.5	85.7	16.3
VORIS SEEDS V2542			105.2	23.7	73.8	36.2
SECURITY SV112	135.2	109.8	104.9	22.4	90.0	33.3
PREMIER SX639			104.9	24.4	83.8	50.6
SO. STATES SV727	133.2	117.0	104.7	21.0	87.6	37.2
MCCURDY MSX84			104.6	22.7	84.8	18.8
FUNK'S G4520	130.0	109.3	104.2	23.5	86.2	24.8
MASON 8866			103.2	23.8	77.1	24.7
RUFF'S R300			102.8	21.3	84.3	23.4
COLBERT 345			102.6	23.9	90.5	28.6
SEED KEM SVX-76	123.3	114.6	102.5	21.7	87.1	24.1
P-A-G 314		112.9	102.1	22.9	82.9	22.6
MASON 8869	122.1	109.1	102.0	24.2	86.2	31.9
ASGROW RX 90	130.2	111.3	101.5	22.6	86.7	36.2
GUTWEIN 74			101.2	23.7	77.1	53.1
S S HYBRIDS 5100		107.8	100.5	22.8	91.0	33.5
SUPER CROST 5440	133.6	120.8	99.5	22.4	88.6	18.1
O'S GOLD SV5500	118.3	114.7	99.4	25.6	92.1	11.6
PREMIER SX633	137.9	114.4	98.8	23.3	94.8	42.1
ACCO UC 9792		122.6	98.7	25.0	81.4	20.4
GOLDEN HARVEST H2500			98.6	24.1	92.4	25.5
ASGROW RX 132			98.4	22.7	79.0	34.5
NORTHROP-KING PX74	127.2	105.0	98.3	22.0	90.0	26.0
SECURITY SV7-111		113.2	98.0	21.7	85.7	25.9
ASGROW RX88			97.4	23.0	84.3	21.0
WILSTAR 9990			96.3	25.2	88.6	76.0
SUPER CROST 5330			96.0	20.3	90.5	46.8
SO. STATES SV830			93.7	23.8	87.1	23.6
P-A-G SX 333			92.5	22.8	89.0	14.2
COLBERT 310		119.4	92.1	21.5	87.1	34.9
FUNK'S G4507	116.3	91.9	91.8	22.1	86.2	20.1
RING AROUND RA1501		99.4	91.6	20.8	83.8	20.5
HCNAIR X170	154.1		87.6	23.5	88.1	50.8
TROJAN TXS 115A	133.3	123.1	85.6	22.3	84.8	38.1
MUNCY CHIEF SVX808B	121.1	104.9	85.5	24.0	65.7	33.1
YELLOW AVERAGE						
	137.0	121.0	111.3	23.6	86.1	25.9
WHITE HYBRIDS						
ZIMMERMAN Z11W	135.1	121.1	125.2	26.1	85.2	29.3
ZIMMERMAN Z52W	154.5	139.3	124.6	26.9	86.7	31.2
PRINCETON SP936			122.2	26.9	83.3	21.0
SO. STATES SV950W	144.6	132.9	118.7	26.2	89.0	33.4
PRINCETON SX 910	139.8	123.0	116.9	26.4	83.3	48.6
GOLDEN HARVEST H2660	136.3	129.8	108.1	27.2	85.7	59.4
FUNK'S G4747W	129.7	113.6	103.5	25.9	83.3	42.3
P-A-G SX 70W			103.1	26.7	87.6	67.5
WHITE AVERAGE						
	140.0	126.6	115.3	26.5	85.5	41.6
GRAND AVERAGE						
	137.3	121.5	111.6	23.8	86.0	27.0

TABLE 8.—ANNUAL SUMMARY, NORMAL POPULATION, LEXINGTON, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
PIONEER BRAND 3369A	149.5	139.5	141.8	24.0	88.6	37.7
FUNK'S 34709			136.9	25.2	88.6	23.2
S S HYBRIDS 86	139.9	127.2	135.6	23.8	89.5	5.9
O'S GOLD SX5509			135.5	24.9	91.4	15.7
PIONEER BRAND 3311			135.0	24.6	93.8	33.8
BO-JAC X923		137.6	132.7	23.9	83.3	13.4
PIONEER BRAND 3535	162.9		132.4	22.2	85.7	6.4
STEWART SX 77	141.0	127.8	130.1	23.8	74.8	5.7
RUFF'S R334		128.1	129.6	23.8	88.6	9.6
RING AROUND RA2502	170.8		129.2	26.3	84.8	6.1
ADLERS 87X	137.2	127.7	128.0	23.4	86.7	10.3
PIONEER BRAND 3184	157.0	148.2	127.1	25.0	87.6	26.9
DENNIS DS39			124.9	23.2	90.0	19.7
GOLDEN ACRES T-E 6995		130.6	124.0	22.2	93.8	59.5
BO-JAC X83	142.1	129.4	123.6	23.4	88.6	25.5
ZIMMERMAN Z20Y		128.0	123.4	24.8	91.4	45.6
HOBLIT XR448A			123.4	23.1	91.0	26.8
PIONEER BRAND 3183			123.0	24.9	84.3	31.5
NORTHROP-KING PX95			120.9	26.8	83.8	34.4
GOLD TAG 4020	143.8	131.5	120.7	24.1	81.4	8.2
GOLDEN ACRES T-E 6968	132.6	124.8	120.7	23.6	82.4	22.1
ZIMMERMAN Z22Y			120.2	26.5	78.6	10.6
ASGROW RX98			120.0	23.3	89.0	38.5
TROJAN TXS 119	137.3	124.7	119.7	23.3	81.4	6.4
VORIS SEEDS V2601			119.2	22.9	86.8	23.8
FUNK'S 34848	139.5	120.3	118.4	30.5	89.0	21.2
SEED KEM SKX-80			118.1	23.3	85.2	50.9
GUTWEIN 72		127.0	117.4	22.6	93.3	13.1
WILSTAR 6653	140.7	126.0	117.3	23.1	90.0	29.7
MUNCY CHIEF SX776			117.3	23.3	88.6	34.6
ADLERS 62X		127.2	117.1	23.9	79.0	50.9
RING AROUND RA1502		122.2	116.7	24.3	86.7	2.7
MIGRO M-7110			116.5	24.0	84.8	17.9
MIGRO M-6666			116.5	23.0	90.5	8.7
MIGRO M-0707			116.3	24.5	91.0	14.4
STEWART 6573			116.0	25.5	89.0	48.1
GUTWEIN 86	140.1	125.3	115.8	24.2	84.3	55.1
NORTHROP-KING PX87			115.8	23.9	81.9	16.6
MIGRO M-7072	142.6	132.8	115.3	23.5	89.0	15.4
DENNIS 69		125.4	115.0	22.4	87.1	4.5
PIONEER BRAND 3368A	142.0	133.3	114.8	25.0	86.7	12.5
HOBLIT XR441A		128.3	114.1	24.4	82.4	10.1
DEKALB XL75			113.5	24.2	90.5	22.2
COKER 16	138.3	128.2	112.9	24.4	79.0	21.7
GOLD TAG 880	137.3	126.1	112.5	22.1	81.9	26.5
DENNIS 37	146.4	130.0	112.3	22.3	84.3	24.9
SO.STATES SS730		121.6	112.2	23.3	89.0	18.2
SEED KEM SKX-86	125.4	111.4	112.3	23.4	90.0	34.2
COKER 22		123.7	111.8	24.6	81.0	28.7
TROJAN TXS 114	138.3	126.4	111.3	23.5	88.1	36.0
P-A-G SX 17A	134.3	114.3	111.0	24.1	84.8	40.4
RING AROUND RA 2501			110.9	24.0	81.0	11.1
ZIMMERMAN Z24Y	141.8	127.4	110.7	23.1	84.3	23.1
DEKALB XL75A		116.4	110.6	24.1	87.1	11.3
SUPER CROST 6800		118.8	110.5	23.5	77.6	14.0
GOLDEN ACRES T-E 6995A			110.3	22.2	84.3	47.2
DEKALB XL78	129.4	112.4	109.8	24.3	85.7	18.3
ACCO UC 8951		125.1	109.3	24.6	87.6	14.7
SO.STATES SS775	138.8	128.2	109.2	24.7	93.3	35.2

(continued)

TABLE 2.—AGRONOMIC INFORMATION PERTAINING TO 1978 TEST LOCATIONS

Location and Cooperator	Soil Type	Fertilizer lb/A	Herbicide	Insecticide	Planting Date	Harvest Date
(1) Mayfield, Ky. Berthal Johnson	Collins Silt Loam	N -150 P <sub>2</sub> O <sub>5</sub> -120 K <sub>2</sub> O - 72	Aatrex and Eradicane	Furadan 18 lb/A	April 28	Sept. 26
(2) Princeton, Ky. Western Ky. Substation	Huntington, Pembroke, & Crider Silt Loam	N -150 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O - 60	Bladex and Eradicane	Furadan 18 lb/A	May 24	Sept. 27 and 28
(3) Henderson, Ky. J. L. Beasley	Huntington Fine Sandy Loam	N -130 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O -None	Sutan <sup>+</sup>	None Applied	May 30	Oct. 12
(4) Hartford, Ky. Dane Milligan	Melvin Silt Loam	N -190 P <sub>2</sub> O <sub>5</sub> - 81 K <sub>2</sub> O -105	Aatrex and Eradicane	Furadan 18 lb/A	May 22	Oct. 10 and 11
(5) Franklin, Ky. Robert (Bob) Wade	Crider Silt Loam	N -185 P <sub>2</sub> O <sub>5</sub> -100 K <sub>2</sub> O - 12 Zinc-2.5	Aatrex and Eradicane	Furadan 18 lb/A	April 13	Oct. 4 and 5
(6) Elizabethtown, Ky. Bob Wade	Crider Silt Loam	N -130 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O -None	Aatrex and Paraquat	Furadan 18 lb/A	April 17	Oct. 2, 3, and 4
(7) Hodgenville, Ky. Eric Hinton	Vertrees and Crider Silt Loam	N -150 P <sub>2</sub> O <sub>5</sub> - 30 K <sub>2</sub> O - 70	Aatrex and Eradicane	None Applied	June 2	Oct. 25
(8) Lexington, Ky. K.A.E.S. Spindletop Farm	Lanton Silt Loam	N -150 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O - 60	Aatrex and Eradicane	Furadan 18 lb/A	May 20	Oct. 16, 17, and 18
(9) Quicksand, Ky. Robinson Substation	Philo Silt Loam	N -190 P <sub>2</sub> O <sub>5</sub> -144 K <sub>2</sub> O -144	Aatrex and Eradicane	Furadan 18 lb/A	May 19	Oct. 19 and 20

TABLE 3.—ANNUAL SUMMARY, NORMAL POPULATION, MAYFIELD, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL% LODGED 1978
YELLOW HYBRIDS						
VORIS SEEDS V2601			107.3	15.7	85.7	26.6
COLBERT 345			93.6	17.5	85.7	24.1
PIONEER BRAND 3183			89.6	16.4	76.7	4.4
GOLDEN ACRES T-E 6995A			88.9	16.0	79.0	7.0
S S HYBRIDS 5100		108.1	88.2	16.3	73.3	7.8
RUFF'S R334		109.0	87.4	16.6	83.3	8.5
O'S GOLD SX5500	119.5	101.7	86.8	17.0	79.0	10.2
SUPER CROST 5330			86.7	15.9	90.0	21.9
GOLD TAG 4020	138.8	113.5	86.1	17.7	88.6	14.4
MUNCY CHIEF SX776			85.9	15.8	90.5	13.1
S S HYBRIDS 86	130.2	115.2	84.1	16.0	86.2	10.1
P-A-G SX 333			83.4	15.4	70.0	8.7
MIGRO M-6666			83.3	16.3	90.5	11.7
COLBERT 310		110.8	82.3	15.9	90.0	12.8
PIONEER BRAND 3535	151.9		81.9	15.7	77.6	16.4
MCNAIR X194	123.1	93.4	81.8	16.9	77.1	8.4
PIONEER BRAND 3184	133.7	110.0	80.5	18.3	92.9	12.5
RING AROUND RA1501			80.0	15.8	82.4	8.0
SECURITY SS112	112.4	73.6	79.9	16.2	84.3	11.6
WILSTAR 6663	126.9	104.9	79.5	15.9	89.5	15.5
MCCURDY MSX84			79.0	16.8	81.0	11.0
DENNIS 69		102.7	78.8	16.1	78.6	15.0
ADLERS 87X	139.2	107.1	78.2	16.7	69.6	13.6
COKER 22		93.2	77.6	15.8	89.5	28.9
TROJAN TXS 115A	104.5	75.6	77.2	15.4	84.3	10.1
ZIMMERMAN Z22Y			76.9	16.7	86.2	11.1
SEED KEM SKX-86	108.9	81.5	76.7	16.2	75.2	16.5
SO.STATES SS830			76.4	16.1	86.2	10.9
SEED KEM SKX-80			76.3	15.6	78.1	14.3
NORTHRUP-KING PX74	142.2	122.1	75.7	16.2	71.0	13.2
SUPER CROST 6800		109.7	75.7	16.7	82.4	14.8
ASGROW RX98			75.5	15.1	87.6	18.2
FUNK'S G4520	129.7	100.8	75.4	16.5	74.8	11.6
ASGROW RX 90	132.8	105.6	74.9	15.3	84.8	9.9
P-A-G SX 17A	123.9	93.2	74.8	16.2	86.2	20.2
VORIS SEEDS V2532	124.0	102.0	74.8	16.2	76.7	13.7
PREMIER SX639			74.2	17.8	81.9	7.4
MIGRO M-0707			74.0	16.5	77.6	15.6
NORTHRUP-KING PX95			74.0	18.0	78.6	10.4
RUFF'S R300			73.5	16.3	89.5	13.3
TROJAN TXS 119	140.0	116.7	73.4	18.7	79.5	15.0
ADLERS 62X		98.7	73.3	16.0	87.6	22.7
RING AROUND RA1502		94.1	73.1	16.9	72.4	5.9
SO.STATES SS730		77.1	73.1	16.3	75.2	10.9
BO-JAC X83	124.8	94.5	72.9	16.4	85.7	13.3
DENNIS 37	128.3	95.0	72.8	15.7	83.8	14.8
MCNAIR X170	160.3		72.7	15.2	90.5	22.9
GOLD TAG 880	128.9	104.6	71.6	16.7	86.2	15.8
S S HYBRIDS 6400		99.6	70.3	16.3	79.0	18.2
BO-JAC X923		86.8	69.8	17.0	89.5	24.6
SO.STATES SS775	134.7	108.5	69.6	16.8	77.6	11.9
ZIMMERMAN Z24Y	129.9	98.6	69.4	16.1	88.1	10.9
MIGRO M-7072	134.9	108.4	68.9	16.6	96.2	16.4
PREMIER SX633	121.2	87.1	68.7	16.3	73.3	12.7
FUNK'S G4709			68.7	15.2	91.9	12.2
COKER 16	135.5	107.7	68.5	15.5	91.9	19.4
GUTWEIN 74			68.4	16.2	69.0	15.1
ACCO UC 8951		97.0	68.2	17.5	72.4	14.0
VORIS SEEDS V2542			67.8	16.4	69.5	16.4

(continued)

Table 7 (continued)

VARIETY	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL% LODGED 1978
YELLOW HYBRIDS					
P-A-G 314	105.8	120.6	21.7	80.8	3.0
S S HYBRIDS 5100	131.7	120.3	24.2	69.2	0.0
ACCO UC 9792	139.6	119.7	25.9	67.5	1.3
RUFF'S R300		119.1	22.1	83.3	2.4
PIONEER BRAND 3311		118.0	25.7	84.2	0.0
PREMIER SX633	105.5	117.8	23.8	79.1	0.5
ASGROW RX98		117.7	24.4	75.6	2.8
ADLERS 62X	127.6	117.4	24.2	82.1	2.5
P-A-G SX 17A	118.5	117.0	22.9	85.5	1.5
RING AROUND RA 2501		116.0	22.8	71.8	1.1
HOBLET XR448A		115.5	24.6	85.5	3.8
ADLERS 87X	118.4	114.1	23.8	82.1	2.6
GUTWEIN 86	116.0	114.1	22.5	79.9	0.0
DENNIS 37	127.5	113.8	21.7	58.5	0.0
MASON 8869	107.9	112.5	23.7	73.9	1.0
MIGRO M-7110		112.4	23.7	78.2	1.6
TROJAN TXS 119	115.8	112.4	24.7	67.9	1.2
TROJAN TXS 114	122.8	112.1	23.6	78.6	1.3
SO.STATES SS727	122.1	111.4	24.4	76.9	1.5
MCNAIR X170		111.0	22.6	72.6	3.8
TROJAN TXS 115A	114.3	110.5	22.3	75.6	0.0
ASGROW RX 90	121.6	110.4	24.2	81.6	2.0
S S HYBRIDS 6400	111.1	109.0	24.0	65.0	2.1
DEKALB XL72AA	105.7	107.7	22.8	76.5	0.6
PRINCETON SX 840	115.3	106.8	25.9	81.6	1.6
GUTWEIN 74		105.7	24.0	70.1	0.6
VORIS SEEDS V2542		104.6	23.6	69.7	0.0
SO.STATES SS830		104.4	23.9	76.1	1.7
P-A-G SX 333		103.4	21.7	78.6	0.6
BO-JAC X565		103.2	23.0	76.1	2.1
STEWART 6573		102.6	24.9	78.2	0.5
PIONEER BRAND 3183		102.5	24.5	72.2	0.6
SO.STATES SS775	103.7	102.5	24.0	84.6	1.1
GUTWEIN 72	121.4	98.4	22.7	60.7	0.6
PIONEER BRAND 3535		96.6	22.0	80.8	0.0
DEKALB XL78	102.8	96.6	23.9	87.2	3.9
SEED KEM SKX-86	112.4	95.7	23.4	87.2	2.0
DEKALB XL75		90.9	24.2	77.4	1.1
GOLDEN ACRES T-E 6968	94.9	89.9	22.4	81.2	1.0
MASON 8866		85.3	21.8	45.7	0.9
ASGROW RX88		82.3	22.0	67.1	0.0
MIGRO M-6666		81.4	23.5	87.6	0.0
MUNCY CHIEF SX8088	71.9	53.1	23.1	34.2	0.0
YELLOW AVERAGE	123.8	123.1	23.8	77.8	1.3
WHITE HYBRIDS					
ZIMMERMAN Z11W	126.3	130.4	28.0	84.6	0.0
PRINCETON SP936		123.9	27.2	76.5	0.0
ZIMMERMAN Z52W	126.6	122.9	27.4	82.9	2.6
SO.STATES SS950W	105.9	116.7	27.5	81.2	1.6
P-A-G SX 70W		105.6	27.2	82.5	2.1
FUNK'S G4747W	109.4	95.2	23.7	86.3	0.0
GOLDEN HARVEST H2660	103.8	92.0	21.1	59.0	0.6
PRINCETON SX 910	88.1	74.5	28.7	86.8	0.5
WHITE AVERAGE	110.0	107.6	27.7	80.0	0.9
GRAND AVERAGE	122.6	122.0	24.1	78.0	1.3

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

VARIETY	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS					
COLBERT 345		174.3	24.4	81.6	1.0
FUNK'S G4507	149.6	165.5	22.5	82.9	0.5
RING AROUND RA2502		159.2	26.1	75.2	1.7
BO-JAC X83	146.5	157.9	22.8	85.0	1.6
O'S GOLD SX5509		156.5	25.0	87.6	1.5
MIGRO M-0707		156.4	25.1	81.6	0.5
ZIMMERMAN Z24Y	144.3	154.2	23.1	86.3	0.5
RUFF'S R334	141.5	153.0	23.2	85.9	0.9
DENNIS DS39		149.3	26.0	75.2	0.6
GOLDEN HARVEST H2500		147.9	24.0	76.5	1.1
VORIS SEEDS V2601		147.8	23.6	88.9	1.0
MIGRO M-7072	128.7	146.5	22.9	85.9	2.1
PIONEER BRAND 3368A	135.7	144.3	23.4	85.9	1.4
SEED KEM SKX-76	123.1	143.3	22.3	76.9	0.5
NORTHROP-KING PX87		143.3	26.2	81.6	1.0
STEWART 6973		142.3	25.7	74.8	4.0
O'S GOLD SX5500	132.8	141.2	24.6	76.9	2.0
BO-JAC X923	126.7	138.4	24.7	79.9	0.5
ZIMMERMAN Z22Y		138.1	26.4	82.1	1.4
STEWART SX 77	155.6	138.0	22.9	68.8	1.9
DENNIS 69	133.2	136.6	23.0	64.1	0.0
GOLDEN HARVEST H2666	124.3	136.5	24.0	68.4	1.1
GOLDEN ACRES T-E 6995A		135.9	22.6	79.5	3.8
NORTHROP-KING PX95		135.2	26.7	78.6	4.4
HOBLIT XR441A	130.0	134.3	23.3	69.2	0.6
COKER 16	130.9	132.9	23.7	92.7	0.0
SO.STATES SS730	128.2	132.1	23.2	80.8	0.5
COLBERT 310	129.3	131.6	22.1	83.8	1.5
NORTHROP-KING PX74	138.6	131.5	23.6	75.6	0.0
RING AROUND RA1502	136.1	131.3	23.5	70.1	4.2
NORTHROP-KING PX79	130.4	131.2	21.8	80.3	0.0
MCNAIR X194	128.9	130.3	23.1	85.5	0.5
SUPER CROST 6800	128.9	130.3	25.3	78.6	2.6
PIONEER BRAND 3369A	140.7	130.2	23.0	86.8	3.3
WILSTAR 6663	130.3	130.0	22.4	86.8	1.0
PIONEER BRAND 3184	118.5	130.0	24.8	85.5	0.0
DEKALB XL72B	119.2	129.3	23.1	74.4	2.2
PREMIER SX639		129.1	27.0	76.5	1.1
FUNK'S G4709		128.3	24.2	86.8	1.4
VORIS SEEDS V2532	125.0	127.2	22.3	82.1	1.5
RING AROUND RA1501	118.3	127.2	22.8	67.5	0.5
SEED KEM SKX-80		127.1	24.6	83.8	2.0
GOLDEN ACRES T-E 6995	128.7	127.0	23.0	76.1	1.7
ZIMMERMAN Z20Y	131.5	126.8	25.6	84.2	1.6
GOLD TAG 4020	132.6	126.7	26.5	80.8	4.0
MUNCY CHIEF SX776		126.5	23.0	83.8	1.0
MCCURDY MSX84		126.3	22.4	85.0	0.0
S S HYBRIDS 86	128.1	125.8	24.4	79.5	3.3
FUNK'S G4520	122.6	125.3	22.8	84.6	0.5
WILSTAR 9990		124.7	25.0	57.7	0.0
GOLD TAG 880	115.8	123.6	23.4	82.9	2.5
SUPER CROST 5440	118.7	123.5	23.2	88.0	1.5
SECURITY S7-111	126.2	123.3	23.4	86.8	0.0
FUNK'S G4848	132.9	123.2	28.0	78.6	2.4
SUPER CROST 5330		123.2	21.9	83.8	0.0
ACCO UC 8951	124.1	123.0	26.1	78.2	1.1
DEKALB XL75A	117.4	122.8	23.9	79.1	0.5
SECURITY SS112	101.0	122.1	24.3	69.7	0.0
COKER 22	134.8	121.9	25.7	74.4	0.5

(continued)

Table 3 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978	
YELLOW HYBRIDS							
FUNK'S G4507	125.4	101.9	67.3	15.8	73.8	10.4	
P-A-G 314		80.9	67.1	16.5	75.7	31.3	
PIONEER BRAND 3311			66.0	16.7	81.4	7.1	
HOBLIT XR441A			93.1	65.9	17.3	65.7	16.3
SEED KEM SKX-76	114.4	101.9	65.9	16.2	87.6	12.5	
DEKALB XL75A		74.6	65.7	15.8	79.5	11.9	
BO-JAC X56S			65.7	15.4	72.4	12.4	
PIONEER BRAND 3369A	122.2	86.2	65.7	15.9	85.7	14.2	
DEKALB XL72B	120.3	101.1	65.4	31.4	81.0	18.9	
STEWART SX 77	136.8	119.1	64.3	16.9	61.4	9.3	
GOLDEN ACRES T-E 6995		87.7	64.1	15.4	89.5	14.8	
RING AROUND RA2502	176.0		63.7	17.8	82.4	19.5	
PIONEER BRAND 3368A	139.4	108.4	63.3	14.9	85.7	16.6	
DEKALB XL72AA	111.0	80.4	62.8	16.4	74.8	19.4	
HOBLIT XR448A			62.4	15.9	77.6	8.1	
TROJAN TXS 114	108.4	78.0	62.2	15.7	85.7	24.4	
GOLDEN HARVEST H2500			62.1	16.8	81.4	11.4	
DEKALB XL75			62.0	16.0	76.2	20.1	
MIGRO M-7110			61.3	16.3	81.4	31.3	
RING AROUND RA 2501			59.9	17.7	81.4	14.1	
GOLDEN ACRES T-E 6968	115.1	88.5	59.6	15.9	75.2	16.7	
WILSTAR 9990			59.6	18.7	72.9	15.8	
MASSON 8869	103.4	69.7	59.1	16.5	84.3	22.0	
DENNIS DS39			58.3	16.9	68.6	24.2	
GOLDEN HARVEST H2666	110.9	78.6	58.0	16.3	76.2	12.2	
GUTWEIN 86	109.8	65.3	57.3	16.1	79.0	14.9	
STEWART 6973			57.3	16.5	72.4	19.1	
DEKALB XL78	116.0	86.5	56.8	17.1	83.3	20.2	
ZIMMERMAN Z20Y		88.1	56.0	16.9	88.1	32.2	
STEWART 6573			55.8	17.3	81.0	15.5	
SECURITY S7-111		96.9	55.2	15.4	81.9	13.9	
ASGROW RX88			54.9	16.3	79.0	19.6	
FUNK'S G4848	119.4	84.7	54.9	19.7	77.6	4.7	
MASSON 8866			54.2	15.5	28.1	10.6	
GUTWEIN 72		70.7	53.9	15.9	72.4	21.9	
PRINCETON SX 840		73.1	53.6	16.8	84.8	11.8	
NORTHROP-KING PX87			53.4	16.3	67.1	5.8	
SUPER CROST 5440	116.7	86.9	52.9	16.0	72.9	17.8	
NORTHROP-KING PX79	129.3	95.3	52.3	15.9	83.8	18.2	
O'S GOLD SX5509			50.8	16.5	82.9	20.4	
ACCO UC 9792		73.8	46.2	17.6	73.8	25.7	
SO.STATES SS727	113.9	78.8	41.9	16.1	81.0	15.3	
MUNCY CHIEF SX808B	106.3	69.7	39.2	16.9	39.0	6.9	
YELLOW AVERAGE	126.1	94.0	69.6	16.6	79.8	15.1	
WHITE HYBRIDS							
P-A-G SX 70W			76.3	19.0	80.5	38.7	
PRINCETON SP936			70.6	16.8	88.1	25.3	
ZIMMERMAN Z11W	123.9	78.3	62.9	18.7	78.1	15.2	
PRINCETON SX 910	115.8	84.5	58.3	17.7	80.5	24.8	
GOLDEN HARVEST H2660	103.7	62.6	53.8	17.7	74.3	22.7	
ZIMMERMAN Z52W	120.8	75.3	53.0	17.1	69.5	24.6	
SO.STATES SS950W	104.0	61.1	50.7	17.3	79.0	18.9	
FUNK'S G4747W	108.3	65.9	50.6	16.6	91.0	29.7	
WHITE AVERAGE	112.7	71.3	59.6	17.6	80.1	25.0	
GRAND AVERAGE	124.5	92.0	68.9	16.6	79.8	15.8	

TABLE 4.—ANNUAL SUMMARY, NORMAL POPULATION, PRINCETON, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
TROJAN TXS 115A	159.3	160.1	173.0	25.0	85.7	0.0
PIONEER BRAND 3369A	176.2	180.5	165.8	23.7	77.6	1.1
STEWART 6973			165.3	27.6	81.4	1.8
SUPER CRJST 5330			162.8	24.1	77.6	0.0
NORTHROP-KING PX95			160.9	28.5	78.1	0.6
PIONEER BRAND 3311			157.7	26.0	80.0	0.5
SUPER CROST 6800		141.4	157.6	24.6	76.7	1.3
STEWART SX 77	161.9	159.6	157.2	25.4	74.3	0.0
RUFF'S R300			157.1	25.2	78.1	0.0
ADLERS 87X	152.3	134.1	157.0	23.9	79.0	0.0
WILSTAR 6663	142.7	130.0	156.9	25.5	84.8	0.6
DENNIS 37	160.9	143.1	150.7	26.0	83.3	1.1
BO-JAC X923		157.8	155.9	26.5	79.0	1.3
MUNCY CHIEF SX777			155.6	24.2	79.5	0.0
PIONEER BRAND 3184	165.0	163.8	154.4	27.3	79.5	0.0
SECURITY S7-111			147.1	23.8	82.4	2.4
STEWART 6573			153.9	28.6	85.2	0.6
SO.STATES SS727	144.2	131.6	153.7	24.4	80.0	0.7
S S HYBRIDS 5100		172.1	153.5	25.4	81.9	0.5
MASON 8866			153.2	23.1	69.6	0.6
ZIMMERMAN Z24Y	158.5	154.2	153.0	24.5	74.8	1.5
SUPER CRJST 5440	140.6	127.1	152.0	23.7	83.8	0.0
ASGROW RX98			151.5	23.2	73.3	0.0
P-A-G SX 333			149.4	23.5	78.6	0.6
FUNK'S G4507	143.0	130.8	149.2	25.2	75.7	0.6
P-A-G SX 17A	155.2	130.0	149.1	24.5	81.4	0.0
MIGRO M-7072	153.0	139.2	148.4	25.6	80.5	0.7
SFED KEM SKX-76	137.3	135.5	146.9	24.9	82.9	0.0
ZIMMERMAN Z20Y		146.4	146.4	26.8	86.7	2.7
ASGROW RX 90	141.0	120.3	146.3	25.0	81.4	0.6
ACCO UC 8951		143.5	145.9	26.4	87.1	3.3
TROJAN TXS 114	148.4	139.8	145.0	23.8	79.5	0.0
ADLERS 62X		126.4	144.4	25.7	89.0	0.0
MCAIR X194	147.5	143.4	143.7	25.4	80.0	1.2
GOLDEN ACRES T-E 6995A			143.3	26.5	78.1	0.7
COLBERT 345			142.9	27.3	79.0	0.6
RING AROUND RA2502	167.2		142.5	28.1	87.6	2.2
O'S GOLD SX5509			142.4	28.3	72.9	4.6
RUFF'S R334		134.5	142.3	27.1	82.4	1.7
SECURITY SS112	131.0	113.8	142.3	24.3	80.5	0.0
PIONEER BRAND 3183			142.0	26.1	69.5	0.6
FUNK'S 34709			141.6	25.0	80.0	1.1
GOLD TAG 4020	143.7	134.2	141.6	26.4	78.6	0.6
HOBLLIT XR448A			141.3	24.7	79.0	1.2
VORIS SEEDS V2532	149.7	130.9	140.9	24.6	84.3	1.1
GUTWEIN 72		134.6	140.8	23.7	79.0	0.0
TROJAN TXS 110	154.6	142.3	140.8	27.0	81.4	1.8
GOLDEN HARVEST H2500			140.3	25.0	73.8	0.6
GOLDEN ACRES T-F 6995		148.9	140.1	25.1	79.5	0.0
S S HYBRIDS R6	160.7	151.3	138.6	24.7	81.9	1.1
BO-JAC X83	154.3	146.4	137.9	24.0	68.1	0.7
NORTHROP-KING PX79	139.5	131.1	137.7	25.5	83.8	1.2
RING AROUND RA 2501			137.5	25.3	75.2	0.0
GUTWEIN 86	141.0	130.1	136.9	25.0	82.4	1.1
NORTHROP-KING PX87			136.5	28.7	83.8	3.5
SO.STATES SS730		131.3	136.4	25.4	81.0	0.0
COKER 22		165.3	136.4	27.3	81.4	1.8
MIGRO M-7110			135.0	23.7	83.3	1.1
ZIMMERMAN Z22Y			134.5	26.6	80.5	1.1

(continued)

Table 6 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
GUTWEIN 86	120.8	123.0	110.1	18.2	83.3	8.5
GOLDEN ACRES T-F 6995A			109.8	17.8	89.5	8.0
COKER 22		119.1	109.7	19.5	86.2	13.7
ASGROW RX 90	122.4	116.3	109.7	17.7	74.8	4.2
MASON 8866			109.5	18.0	56.2	6.2
GOLDEN HARVEST H2666	116.5	110.2	107.0	19.2	82.9	13.9
STEWART 6973			106.8	19.7	79.5	14.2
PIONEER BRAND 3368A	116.5	107.0	106.0	18.8	86.2	15.7
RUFF'S R300			106.0	17.4	91.4	8.4
FUNK'S G4709			105.9	18.6	88.1	9.2
DEKALB XL72B	110.8	108.4	105.1	19.1	80.5	14.0
PIONEER BRAND 3535	147.4		104.7	17.6	78.6	3.6
TROJAN TXS 114	111.8	95.6	104.4	18.1	82.9	11.5
SUPER CROST 5330			104.4	17.7	86.7	9.1
PREMIER SX633	104.0	98.0	103.3	18.0	85.2	11.6
BO-JAC X923		118.3	103.2	19.2	86.2	29.5
VORIS SEEDS V2542			102.9	18.4	78.1	19.4
RING AROUND RA1501		110.6	102.8	16.9	78.6	9.2
ADLERS 62X		136.0	102.6	18.4	94.3	22.8
WILSTAR 9990			102.3	20.6	77.6	17.9
SO.STATES SS730		106.6	102.2	18.1	77.1	8.9
GUTWEIN 72		112.7	101.7	17.4	74.8	14.6
ADLERS 87X	114.0	110.2	100.8	18.3	82.4	24.2
DEKALB XL75			99.8	18.6	78.1	7.3
HOBLLIT XR448A			99.3	17.8	93.8	16.1
COKER 16	113.3	106.1	98.6	18.8	84.3	20.4
GUTWEIN 74			96.5	18.2	79.0	20.1
DENNIS 37	117.6	113.8	96.4	18.1	74.8	9.1
DENNIS DS39			96.3	19.9	87.1	15.7
RING AROUND RA1502		113.8	96.1	19.5	80.0	11.3
GOLDEN ACRES T-E 6995			103.9	17.4	87.6	8.3
SO.STATES SS775	117.2	104.6	94.5	18.5	92.4	13.4
SFED KEM SKX-86	112.2	102.1	93.2	18.1	86.2	14.4
SEED KEM SKX-80			92.3	18.6	83.8	8.0
SECURITY S7-111		117.4	91.1	17.8	77.6	6.2
DEKALB XL78	111.4	101.0	89.4	18.8	90.5	27.0
ACCO UC 9792		108.8	88.4	20.5	77.1	7.7
MIGRO M-6666			87.5	18.6	86.2	24.8
MUNCY CHIEF SX8088	108.5	101.8	86.4	18.8	57.1	5.8
GOLDEN ACRES T-F 6968	104.9	90.6	86.4	16.3	86.2	38.5
MCAIR X170	133.2		85.1	18.0	78.1	16.1
O'S GOLD SX5509			84.2	19.0	91.9	13.1
ASGROW RX88			80.0	18.0	77.1	13.2
YELLOW AVERAGE	123.8	120.3	115.0	18.6	83.5	12.2
WHITE HYBRIDS						
ZIMMERMAN Z11W	125.0	127.5	132.9	21.0	90.0	19.7
FUNK'S G4747W	116.0	115.3	132.5	20.5	84.8	17.3
ZIMMERMAN Z52W	124.0	127.9	110.1	20.2	91.4	16.5
PRINCETON SX 910	101.4	99.0	107.0	20.4	84.8	9.6
PRINCETON SP936			101.3	21.1	84.8	14.0
GOLDEN HARVEST H2663	97.0	89.5	95.0	21.2	78.6	12.0
P-A-G SX 70W			89.3	21.3	83.8	36.8
SO.STATES SS950W	107.7	104.3	87.1	20.2	84.3	11.6
WHITE AVERAGE	111.9	110.6	106.9	20.7	85.3	17.2
GRAND AVERAGE	122.4	119.5	114.4	18.7	83.6	12.6

TABLE 6.--ANNUAL SUMMARY, NORMAL POPULATION, FRANKLIN, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
ASGROW RX98			156.7	18.1	81.0	10.2
P-A-G SX 17A	137.8	139.0	149.5	18.1	87.6	9.2
VORIS SEEDS V2601			145.5	18.4	82.9	9.8
RUFF'S R334		133.0	145.0	18.5	91.4	27.6
RING AROUND RA2502	130.3		144.5	18.3	90.0	14.4
NORTHROP-KING PX79	135.7	137.3	142.4	17.7	82.4	5.8
PIONEER BRAND 3183			140.0	19.1	76.2	5.6
FUNK'S G4507	133.0	135.7	139.7	17.8	87.1	2.7
BO-JAC X83	127.6	130.4	138.1	18.7	89.0	11.1
WILSTAR 6663	128.7	123.1	137.3	18.0	92.9	5.2
O'S GOLD SX5500	112.2	120.0	137.0	19.9	72.4	12.6
SUPER CROST 6800		139.0	135.9	18.2	81.9	13.3
GOLD TAG 880	128.5	124.5	135.9	17.6	80.5	2.3
PRINCETON SX 840		123.2	135.3	20.3	81.4	8.3
PIONEER BRAND 3311			134.1	19.4	88.6	4.8
COLBERT 310		142.7	133.4	17.4	85.2	5.5
STEWART SX 77	136.6	134.1	132.5	19.2	67.1	8.7
ZIMMERMAN Z22Y			132.4	19.6	88.1	16.1
NORTHROP-KING PX74	121.0	112.0	131.5	17.9	82.4	6.4
SO.STATES SS727	136.7	137.4	131.5	18.3	88.1	6.7
NORTHROP-KING PX95			131.3	20.1	84.8	6.7
SUPER CROST 5440	136.6	137.9	130.8	18.2	90.0	5.8
PIONEER BRAND 3184	142.4	150.2	129.8	18.5	90.0	3.0
ACCO UC 8951		128.5	129.7	20.2	84.3	13.2
S S HYBRIDS 5100		120.9	128.3	17.9	83.8	10.7
NORTHROP-KING PX87			127.9	19.2	89.5	11.3
MIGRO M-0707			127.8	19.3	93.3	8.6
SECURITY SS112	123.2	117.4	127.6	18.3	81.4	7.0
HOBBLIT XR441A		140.1	125.0	18.7	73.8	13.0
DEKALB XL75A		118.7	125.0	19.3	85.7	7.6
P-A-G SX 333			123.4	18.1	81.9	8.9
TROJAN TXS 115A	130.3	135.4	122.9	18.3	79.5	4.2
S S HYBRIDS 86	118.7	125.6	122.7	18.7	87.6	11.3
GOLD TAG 4020	122.5	114.0	122.4	19.9	87.6	15.7
MUNCY CHIEF SX776			122.2	17.3	89.5	5.9
SO.STATES SS830			121.7	19.2	90.5	7.3
S S HYBRIDS 6400		130.6	120.6	17.4	76.2	17.3
GOLDEN HARVEST H2500			120.4	18.6	85.2	9.5
MCCURDY MSX84			120.3	18.3	82.9	7.5
SEED KEM SKX-76	129.6	138.5	120.1	18.0	81.9	11.8
BO-JAC X56S			119.6	17.7	73.3	11.1
PIONEER BRAND 3369A	127.6	131.0	119.5	18.7	85.7	20.0
PREMIER SX639			118.7	20.1	81.0	12.1
TROJAN TXS 119	125.7	120.7	117.3	19.1	76.7	10.8
FUNK'S G4520	132.9	130.0	117.0	18.2	90.0	9.1
STEWART 6573			117.0	20.5	84.8	16.2
RING AROUND RA 2501			116.6	18.6	85.2	19.6
MIGRO M-7072	126.1	130.4	116.5	18.5	90.5	15.2
VORIS SEEDS V2532	127.2	119.6	116.5	17.3	78.6	4.3
FUNK'S G4848	116.7	121.2	115.7	21.3	82.9	5.6
DEKALB XL72AA	129.7	123.0	115.6	18.2	76.7	4.2
MASON 8869	118.8	116.8	115.1	19.8	81.0	20.6
MCNATR X194	124.8	121.0	114.7	19.0	84.8	13.8
COLBERT 345			114.5	20.2	91.9	11.2
ZIMMERMAN Z24Y	126.4	119.2	114.2	18.4	89.0	12.1
ZIMMERMAN Z20Y		124.2	112.7	19.0	96.7	16.6
P-A-G 314		103.7	110.6	18.5	87.6	27.3
DENNIS 69		115.0	110.5	18.3	85.2	33.3
MIGRO M-7110			110.1	17.4	85.2	12.3

(continued)

Table 4 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
HOBBLIT XR441A		160.0	134.4	26.4	70.5	1.3
COLBERT 310		155.9	134.2	24.4	79.0	1.8
MIGRO M-0707			134.0	27.1	77.6	0.0
PIONEER BRAND 3368A	145.3	138.2	133.4	25.1	79.0	1.1
ASGROW RX89			133.2	26.0	81.4	1.2
SO.STATES SS830			133.1	25.2	84.8	0.5
MCCURDY MSX84			133.1	26.1	84.8	1.1
DENNIS D539			133.0	26.4	81.4	0.0
GOLDEN HARVEST H2666	151.7	139.1	132.0	25.7	72.4	1.3
GOLDEN ACRES T-E 6968	147.0	141.7	131.4	24.2	74.3	0.7
MIGRO M-6666			131.1	24.2	80.5	0.0
SEED KEM SKX-80			131.1	25.6	83.8	2.8
DEKALB XL75			130.6	25.1	70.0	0.7
DENNIS 69		121.4	130.4	24.3	74.8	2.6
SEED KEM SKX-86	143.3	136.6	130.1	24.7	87.1	1.2
BO-JAC X56S			129.6	24.8	72.4	0.0
DEKALB XL75A		125.8	129.6	25.9	81.9	0.0
PREMIER SX633	162.7	140.1	128.8	26.1	84.8	0.5
DEKALB XL78	144.2	137.9	127.3	26.2	76.2	1.7
PREMIER SX639			127.2	27.0	78.6	0.0
PIONEER BRAND 3535			127.2	22.0	78.6	3.4
FUNK'S G4848	154.7	149.0	126.9	30.7	79.5	0.0
NORTHROP-KING PX74	140.8	118.9	126.4	24.7	74.3	1.3
MCNATR X170			126.1	23.3	77.1	1.9
GOLD TAG 880	149.2	138.7	125.9	25.8	78.1	1.9
SO.STATES SS775	145.9	133.8	125.6	25.3	81.0	0.5
FUNK'S-G4520	150.1	129.2	125.4	24.0	73.8	0.7
S S HYBRIDS 6400		138.4	124.4	24.6	73.3	1.3
GUTWEIN 74			123.9	26.1	68.6	0.0
DEKALB XL72B	129.1	120.0	123.4	25.2	74.3	0.6
RING AROUND RA1502		146.3	122.5	25.9	74.3	0.0
MASON 8869	138.7	132.8	122.5	25.1	74.8	1.9
RING AROUND RA1501			129.3	24.2	76.2	0.0
PRINCETON SX 840		135.7	122.3	28.1	74.8	0.8
DEKALB XL72AA	126.2	108.7	118.9	25.4	65.7	0.8
COCKER 16	138.4	129.1	117.0	24.5	78.6	0.0
P-A-G 314		113.7	116.6	27.2	75.2	0.0
VORIS SEEDS V2601			116.5	24.1	71.9	0.0
ACCO UC 9792		132.0	114.1	27.1	71.9	0.0
VORIS SEEDS V2542			114.0	25.1	69.5	0.7
WILSTAR 9990			113.0	28.2	74.8	0.0
O'S GOLD SX5500	120.3	112.8	107.4	26.7	71.4	0.0
MUNCY CHIEF SX808B	121.2	114.0	97.5	24.2	56.7	3.5
YELLOW AVERAGE	148.2	138.4	138.4	25.5	78.3	0.9
WHITE HYBRIDS						
FUNK'S G4747W	156.7	150.5	157.4	29.5	81.9	1.6
ZIMMERMAN Z52W	157.8	149.0	152.6	28.9	78.6	3.0
PRINCETON SP936			146.0	28.4	81.0	2.3
GOLDEN HARVEST H2660	153.6	144.5	138.4	28.5	74.8	1.8
SO.STATES SS950W	162.5	150.1	135.8	28.4	81.4	2.8
P-A-G SX 70W			130.8	28.3	83.8	6.7
ZIMMERMAN Z11W	143.7	129.6	127.0	29.7	82.9	3.4
PRINCETON SX 910	146.1	136.0	126.4	28.1	73.8	2.6
WHITE AVERAGE	153.4	143.3	139.3	28.7	79.8	3.0
GRAND AVERAGE	148.8	138.8	138.4	25.7	78.4	1.0

TABLE 5.—ANNUAL SUMMARY, NORMAL POPULATION, HARTFORD, KY.

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978
YELLOW HYBRIDS						
STEWART 6573			180.6	23.3	91.4	0.0
ZIMMERMAN 220Y		171.3	179.5	23.6	93.8	2.5
MIGRO M-707			175.6	23.1	90.5	0.6
PREMIER SX639			172.7	23.7	95.7	0.5
PIONEER BRAND 3184	165.0	165.4	172.6	23.7	92.9	0.0
NORTHROP-KING PX87			172.6	23.3	91.0	0.5
BO-JAC X83	161.9	159.5	172.0	22.6	90.5	0.0
ZIMMERMAN 224Y	170.4	164.7	169.3	23.3	89.5	0.0
O'S GOLD SX5509			169.1	22.5	86.7	0.0
NORTHROP-KING PX95			167.3	25.4	91.9	0.0
FUNK'S 64848	162.8	156.8	164.9	26.4	93.8	0.0
PRINCETON SX 840		167.0	164.4	22.6	89.0	1.0
COLBERT 345			164.2	24.0	91.4	1.0
WILSTAR 6663	160.7	158.5	162.8	21.7	88.1	0.0
PIONEER BRAND 3311			162.1	22.2	92.4	0.0
PIONEER BRAND 3369A	161.3	163.6	160.8	22.3	86.2	0.0
HOBLLIT XR441A		160.2	159.3	22.8	89.5	0.5
GOLD TAG 880	152.8	145.7	158.8	23.5	89.0	0.0
GOLDEN ACRES T-E 6995		151.2	158.7	20.5	89.5	0.0
DENNIS 37	171.3	169.0	158.5	21.9	88.6	0.0
MIGRO M-7072	160.4	157.8	157.8	23.0	89.5	0.0
RING AROUND RA2502	163.8		157.8	24.1	90.5	0.5
RING AROUND RA1502		159.3	156.5	23.0	86.7	0.0
COKER 22		154.2	155.9	23.6	90.0	0.0
HOBLLIT XR448A			155.7	22.1	92.9	0.0
P-A-G SX 17A	166.3	159.7	155.3	19.7	87.6	0.0
S S HYBRIDS 86	152.2	144.7	155.2	21.5	90.5	1.0
RUFF'S R334		147.7	155.1	23.0	88.6	0.0
STEWART SX 77	157.4	155.4	154.6	22.9	80.5	0.0
SUPER CROST 5440	153.2	149.2	154.2	20.7	89.0	0.0
S S HYBRIDS 6400		166.5	153.9	21.7	85.2	0.5
PIONEER BRAND 3535	155.7		152.9	18.8	94.8	0.5
SO. STATES SS727	163.1	154.1	152.6	20.8	92.9	0.0
P-A-G 314		140.4	152.4	20.1	79.0	0.0
RING AROUND RA1501		148.5	152.3	21.1	84.8	0.5
GUTWEIN 86	160.1	150.5	152.2	21.9	86.2	0.6
ACCO UC 8951		154.8	152.2	23.5	89.5	1.1
STEWART 6973			152.1	22.9	78.1	0.6
MUNCY CHIEF SX776			152.0	20.9	88.6	0.5
ZIMMERMAN 222Y			151.9	23.8	90.0	0.0
MIGRO M-7110			151.8	21.3	87.1	0.5
MASON 8866			151.5	21.9	82.4	0.0
SECURITY SS112	143.9	132.1	151.1	21.1	79.0	0.0
ASGROW RX 90	150.6	147.4	150.9	19.9	89.0	0.0
COKER 16	156.9	153.2	150.7	21.1	92.9	0.5
FUNK'S G4507	154.3	151.2	150.3	21.3	87.1	0.0
RING AROUND RA 2501			150.0	22.4	84.8	0.0
DEKALB XL72AA	159.0	155.4	149.7	20.5	78.6	0.0
PIONEER BRAND 3368A	145.5	144.2	149.5	22.7	87.6	1.1
FUNK'S G4709			149.1	23.0	84.3	0.0
ACCO UC 9792		149.9	148.8	22.9	81.0	0.6
ADLERS 62X		141.2	148.8	21.0	89.0	0.5
ASGROW RX98			146.5	20.0	87.6	0.0
DEKALB XL72B	155.6	157.6	145.7	21.6	79.5	1.3
DEKALB XL75A		146.5	145.4	23.6	90.5	0.0
DENNIS 69		144.2	145.1	23.4	80.5	0.0
NORTHROP-KING PX79	151.3	150.1	144.7	18.9	83.3	0.0
FUNK'S G4520	145.0	143.5	144.7	21.9	91.4	1.0
GOLDEN HARVEST H2500			142.8	21.6	90.5	1.7

(continued)

Table 5 (continued)

VARIETY	YIELD BU/AC 76-78	YIELD BU/AC 77-78	YIELD BU/AC 1978	AVG % MOIST 1978	AVG % STAND 1978	TOTAL % LODGED 1978	
YELLOW HYBRIDS							
BO-JAC X565			142.7	21.7	77.1	0.0	
COLBERT 310		148.5	142.6	21.0	89.0	0.0	
MCNAIR X170	123.6		142.4	21.5	87.1	0.0	
SO. STATES SS775	141.4	139.1	141.5	22.3	91.9	1.0	
SO. STATES SS830			141.5	22.0	90.5	0.5	
TROJAN TXS 114	170.7	168.2	141.4	22.4	81.9	0.0	
SEED KEM SKX-80			141.3	21.5	86.7	0.6	
S S HYBRIDS 5100		155.8	141.0	21.6	88.6	0.0	
P-A-G SX 333			140.5	20.7	82.9	0.0	
VORIS SEEDS V2532	163.1	160.7	139.5	20.7	83.8	0.0	
GOLDEN HARVEST H2666	153.0	146.9	138.6	22.6	81.4	0.0	
GUTWEIN 72			138.6	21.2	73.8	0.0	
MCCURDY MSX84			138.1	21.5	81.4	0.0	
VORIS SEEDS V2542			137.7	20.3	70.5	0.0	
DEKALB XL78	146.1	146.6	137.4	23.3	91.0	0.0	
TROJAN TXS 115A	140.7	139.3	136.8	20.8	86.2	0.0	
NORTHROP-KING PX74	153.0	142.4	136.7	20.8	88.6	0.0	
BO-JAC X923			149.8	136.3	22.6	82.4	0.5
GOLD TAG 4020	150.0	139.0	136.2	24.0	90.0	0.0	
RUFF'S R300			136.0	21.4	89.5	0.0	
SUPER CROST 5330			136.0	20.3	88.1	0.6	
SEED KEM SKX-86	143.7	137.9	135.6	23.1	86.7	0.0	
GOLDEN ACRES T-E 6995A			134.8	21.2	80.0	0.0	
O'S GOLD SX5500	133.2	134.0	134.8	22.5	87.6	1.5	
SO. STATES SS730		139.2	134.4	21.8	94.8	0.5	
VORIS SEEDS V2601			134.1	20.7	91.0	0.5	
TROJAN TXS 119	148.7	143.5	134.0	22.7	85.2	0.0	
PREMIER SX633	141.4	125.5	133.6	21.6	81.9	0.0	
DEKALB XL75			133.4	20.5	85.7	0.0	
MASON 8869	139.9	136.9	133.2	23.4	75.2	0.0	
WILSTAR 9990			133.0	23.9	82.4	0.5	
ASGROW RX88			132.0	20.7	79.0	0.0	
GUTWEIN 74			131.2	22.5	72.9	2.4	
SEED KEM SKX-76	131.2	136.5	130.7	21.8	86.7	0.0	
ADLERS 87X	150.9	145.8	130.6	21.5	91.0	0.0	
ASGROW RX 132			128.5	22.9	90.5	0.0	
GOLDEN ACRES T-E 6968	145.1	137.7	128.3	21.9	71.0	0.0	
PIONEER BRAND 3183			122.9	21.4	77.6	0.0	
DENNIS 0539			122.7	21.2	91.4	0.0	
SECURITY ST-111		131.4	122.3	21.0	80.5	0.0	
SUPER CROST 6800		135.9	122.1	22.4	79.5	0.0	
MIGRO M-6666			119.2	20.9	87.1	0.0	
MUNCY CHIEF SX808B	137.1	142.9	106.4	20.9	57.6	0.0	
YELLOW AVERAGE	152.6	149.9	147.1	22.0	86.1	0.3	
WHITE HYBRIDS							
FUNK'S G4747W	155.9	154.0	171.4	25.3	87.6	0.0	
ZIMMERMAN 252W	166.0	162.9	166.0	24.3	91.9	0.0	
P-A-G SX 70W			162.5	24.0	86.2	0.0	
PRINCETON SX 910	166.0	163.7	152.8	24.1	90.0	0.0	
PRINCETON SP936			148.6	24.3	82.4	0.0	
SO. STATES SS950W	156.4	149.8	146.7	24.0	88.1	0.0	
ZIMMERMAN 211W	164.0	158.1	145.3	25.6	89.5	2.1	
GOLDEN HARVEST H2660	147.2	138.9	131.3	25.1	78.6	0.0	
WHITE AVERAGE	159.2	154.6	153.1	24.6	86.8	0.3	
GRAND AVERAGE	153.4	150.3	147.6	22.2	86.1	0.3	