

# KENTUCKY HYBRID CORN PERFORMANCE TEST-1979

C. G. PONELAIT and K. O. EVANS • PROGRESS REPORT 245

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TABLE 13.—CORN VIRUS TEST, HENDERSON, KY., 1979

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %	VIRUS
	BU/AC	BU/AC	BU/AC	1979	1979	1979	RATING
	77-79	78-79	1979	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>							
DEKALB XL394	99.1	94.9	135.7	20.9	89.0	13.4	2.5
BO-JAC XH832			115.7	19.5	71.4	26.2	3.7
GOLDEN HARV. H2745			125.1	20.7	81.4	9.9	3.7
AGRI-CHEM. USS 2461			106.2	18.3	78.1	10.8	4.0
AGRI-GOLD XA-706			111.9	17.4	86.7	8.1	4.0
PIONEER BRAND 3147	113.6	105.7	142.0	22.9	82.9	9.3	4.0
ZIMMERMAN Z30Y			123.8	17.2	80.0	8.1	4.0
ADLER'S 753			103.4	19.3	77.1	4.3	4.3
CARGILL 951			104.3	18.1	84.3	7.8	4.3
PIONEER BRAND 3179	105.8	111.3	147.0	20.5	82.4	6.5	4.3
RUFF'S R-434		74.0	70.0	98.6	16.5	73.3	4.6
SO. STATES 95710			130.5	16.2	89.5	8.0	4.3
SO. STATES 12956			129.9	20.7	83.0	23.9	4.3
TROJAN MDM-116	80.6	81.9	117.5	19.5	82.9	4.2	4.3
GOLDEN AC. T-E 6947	81.6	82.2	101.3	20.3	82.1	20.9	4.7
MCCURDY 7878			93.3	20.5	80.5	5.9	4.7
PIONEER BRAND X4506			141.2	23.0	89.5	3.3	4.7
PIONEER BRAND X5505			107.7	135.1	20.9	86.2	10.6
RUFF'S R44			103.3	17.5	80.5	5.3	4.7
SELECT SEED MOH75			108.8	19.9	75.7	12.7	4.7
ADLER'S 73X			96.5	19.6	71.0	16.8	5.0
ASGRON RS115A	91.5	83.1	95.2	18.3	85.2	5.5	5.0
ASGRON RX114			129.3	18.9	85.2	3.0	5.0
FUNK'S G6740			133.2	20.4	87.1	19.7	5.0
FUNK'S G4848	100.5	96.5	120.6	23.6	71.0	2.7	5.0
MCCURDY 77-60	101.1	127.9	19.7	89.5	16.9	5.0	
DEKALB XL728	90.1	100.2	126.9	18.7	79.0	4.4	5.3
NORTHRUP-KING PX79			105.1	100.5	17.9	80.5	5.3
P.A.G. SX17A	81.7	88.2	106.1	17.9	73.8	10.9	5.3
P.A.G. 266010			129.9	18.2	83.3	6.2	5.3
ACCO UC9792	91.8	98.0	130.5	20.5	84.8	17.3	5.7
ADLER'S 63X			104.2	18.8	76.7	7.6	5.7
AGRI-GOLD XA-705			117.5	17.1	81.4	6.8	5.7
GOLDEN AC. T-E 6945	91.2	128.7	17.7	85.2	6.6	5.7	
P.A.G. SX346	83.6	110.7	16.1	79.0	8.1	5.7	
PIONEER BRAND 3364	88.7	85.1	112.7	19.9	87.0	4.9	5.7
JACQUES JX250			127.6	21.1	76.2	7.2	6.0
KY. WH. VIR. SYN.	72.0		92.9	19.5	81.0	31.5	6.0
D'S GOLD SX5353			92.6	131.5	17.4	88.6	3.4
BO-JAC XH831			128.6	17.7	78.6	5.1	6.3
DENNIS M-19			135.4	21.9	83.3	2.9	6.3
MIGRA EXP9578			132.6	21.8	76.7	37.1	6.3
NORTHRUP-KING PX95	96.9	100.7	131.1	21.8	79.5	47.3	6.3
O'S GOLD SX5255			118.9	17.4	79.5	4.0	6.3
BALDRIDGE RX335			114.1	19.2	75.2	6.4	6.7
RING AROUND RA2601	86.3	95.3	123.6	22.2	70.0	24.6	6.7
CK	91.1	103.5	141.0	18.0	81.0	6.3	6.8
BO-JAC B3	95.9	98.5	154.1	19.5	91.4	2.6	7.0
O'S GOLD SX3344		106.5	127.5	17.3	85.2	1.1	7.0
ZIMMERMAN Z24Y			150.6	20.2	93.3	3.6	7.0
JACQUES JX247			134.4	18.1	85.2	5.6	7.3
ALDE4S 66X	80.6	119.2	18.6	82.4	5.4	7.7	
<b>YELLOW AVERAGE</b>	90.7	93.5	121.3	19.3	81.7	9.9	5.3
<b>WHITE HYBRIDS</b>							
FUNK'S G4787W			125.1	22.6	88.6	15.8	4.0
KY. WH. VIR. SYN.	68.7		97.1	20.4	83.3	23.3	4.3
MCHATR X233W			144.2	21.4	86.7	11.4	4.3
ZIMMERMAN Z11W	95.6	88.1	127.6	23.3	81.9	6.5	4.3
RING AROUND RA2602W	88.9	92.0	117.3	21.2	81.0	14.2	5.0
CK			145.7	21.0	87.1	10.5	5.7
COKER 6104W			130.3	19.9	87.1	22.8	5.7
PRINCETON SX910W	95.7	131.7	22.2	84.3	16.6	5.7	
ZIMMERMAN Z52W	85.2	89.3	133.8	21.7	81.9	18.2	6.0
<b>WHITE AVERAGE</b>	86.8	89.8	127.9	21.5	84.7	15.5	5.0
<b>GRAND AVERAGE</b>	89.8	93.1	122.3	19.7	82.1	10.7	5.2
LSD (.05)*			22.4	1.7	12.0	11.9	1.7
C.V.			10.8	5.0	8.7	66.7	19.1

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.

# Kentucky Hybrid Corn Performance Test 1979

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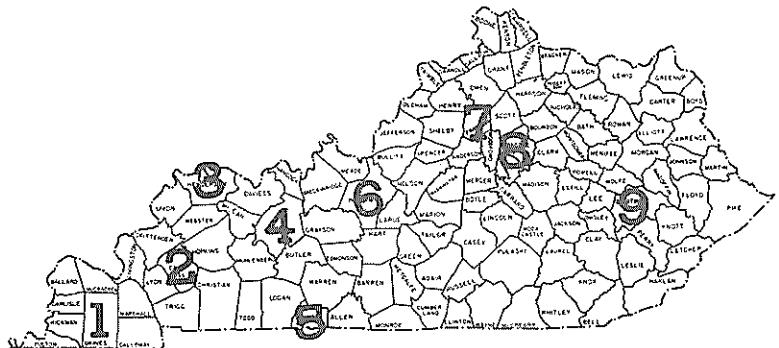
The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. Every effort has been made to conduct the test in an unbiased manner according to accepted agronomic practices.

## PRESENTATION OF DATA

Complete 1979 data are presented for the tests 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 1979 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 1980. 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 agro-climatic areas of the state where corn is a major crop commodity. The Henderson and Frankfort sites are specifically for the presence of corn virus in diverse areas of the state and should represent differences in virus populations.

### 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 soybean residue 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 13 are the average of three replications at that test site while 2-year and 3-year means are averages of six and nine replications, respectively. An 11 x 11 lattice design was used at each non-virus location, and an 8 x 8 lattice design was used at the virus locations.

TABLE 12.—THREE-YEAR SUMMARY,  
ALL NON-VIRUS LOCATIONS, 1977-1979

VARIETY	YIELD BU/AC 77-79	Avg % MOIST 77-79	Avg % STAND 77-79	Avg % TOTAL LOGGED 77-79
	YIELD BU/AC 77-79	Avg % MOIST 77-79	Avg % STAND 77-79	Avg % TOTAL LOGGED 77-79
<b>YELLOW HYBRIDS</b>				
PIONEER BRAND 3184	148.7	21.3	89.8	12.4
PIONEER BRAND 3369A	148.4	20.0	86.2	18.3
ZIMMERMAN 220Y	140.7	21.2	90.2	21.6
BD-JAC 923	144.6	21.2	86.9	17.3
HOBЛИT XN441A	144.1	20.9	83.1	13.7
STEWART SX77	143.8	20.7	81.0	12.2
SELECT SEED 5100	143.3	20.0	85.4	17.3
ZIMMERMAN 224Y	141.5	20.3	87.4	14.4
COLBERT 310	140.9	19.7	87.4	19.6
MIGRO M-7072	140.5	20.4	86.2	15.9
BD-JAC 83	140.0	20.4	83.4	16.6
ACCO UC8951	139.3	21.3	85.8	18.1
SELECT SEED 80	139.3	20.3	86.3	15.6
COKER 22	138.8	21.3	86.4	15.5
RUFF'S R334A	138.6	20.5	85.4	19.8
RING AROUND RA1502	137.3	20.7	81.7	14.1
SELECT SEED 6400	136.8	19.7	83.0	14.5
GOLD TAG 3020	136.0	20.1	83.8	14.3
P.A.G. 9X17A	135.6	19.7	84.5	25.1
NORTHROP-KING PX74	135.6	19.8	84.5	20.7
DENNIS DS-37	135.3	19.9	81.9	14.7
FUNK'S G4507	134.7	20.2	83.8	21.4
COKER 16	134.5	20.2	87.1	13.2
GOLDEN AC, T-E 6995	134.0	19.6	83.9	19.5
TROJAN TXS-114	133.5	20.0	85.8	19.3
VORIS SEEDS V2532	132.9	19.8	85.5	19.6
ADLERS 62X	132.8	20.0	87.4	19.9
DEKALB XL72AA	131.8	19.9	83.6	16.8
NORTHROP-KING PX79	131.0	19.5	85.3	16.5
GUTMEN 86	130.5	19.9	85.1	14.7
AOLEPS 87X	130.3	20.7	83.7	20.7
PRINCETON SX 840	129.8	21.5	84.6	11.2
ASGRUN RX90	129.4	19.7	83.4	21.0
GUTMEN 72	129.1	20.1	81.4	14.0
SO. STATES SS730	128.8	20.2	83.5	16.2
GOLDEN HARV. H2666	128.3	20.6	80.0	19.5
SO. STATES SS775	128.2	20.4	87.5	14.0
DEKALB XL72H	128.2	20.0	79.5	13.4
TROJAN TXS-119	128.0	21.3	80.9	19.0
MCNATH X194	127.7	20.9	82.5	19.3
ACCO UC9792	127.0	21.8	81.9	14.7
RING AROUND RA1501	126.3	19.7	82.9	17.7
Premier SX633	125.7	20.1	82.1	16.8
O'S GOLD SX5500	125.3	20.7	83.2	23.1
SUPER CRUST 6800	126.5	20.4	80.4	22.4
YELLOW AVERAGE	134.8	20.4	84.4	17.7
<b>WHITE HYBRIDS</b>				
ZIMMERMAN Z52W	137.8	22.4	85.8	21.3
SO. STATES SS950W	132.6	22.2	83.7	19.1
ZIMMERMAN 711W	131.7	22.7	85.4	23.3
FUNK'S G4747W	130.4	22.7	84.3	23.9
PRINCETON SX910W	128.6	22.5	85.8	26.0
GOLDFN HARV. H2660W	124.3	22.5	75.3	21.7
WHITE AVERAGE	130.9	22.5	83.4	22.5
GRAND AVERAGE	134.3	20.6	84.3	18.3

**TABLE 11.—TWO-YEAR SUMMARY,  
ALL NON-VIRUS LOCATIONS, 1978-1979**

VARIETY	YIELD BU/AC	Avg x 78-79	Avg % MOIST STAND	Total 78-79	% LODGED
<b>YELLOW HYBRIDS</b>					
COLBERT 345	153.0	22.8	85.9	10.5	
PIONEER BRAND 3311	149.0	22.0	84.0	7.7	
NORTHROP-KING PX95	149.3	24.3	83.8	7.4	
BO-JAC 93	158.2	22.3	86.0	10.6	
PIONEER BRAND 3369A	147.8	21.0	85.7	12.2	
PIONEER BRAND 3184	147.3	22.3	84.2	8.9	
ZIMMERMAN 220Y	147.2	22.4	90.1	12.7	
HIGRO M-0707	146.3	22.1	86.2	7.3	
STEWART 6973	144.3	22.4	80.5	8.4	
SELECT SEED 5100	143.2	21.2	85.7	9.1	
RUFF'S R334A	142.7	21.7	85.0	12.2	
D'S GOLD SX509	142.9	22.5	85.3	8.1	
BO-JAC 83	142.2	21.5	83.7	11.4	
HOBIT X441A	142.2	22.0	80.6	6.8	
ZIMMERMAN 220Y	141.8	21.3	85.3	11.6	
ZIMMERMAN 222Y	141.6	22.4	83.7	6.5	
PIONEER BRAND 3183	141.1	21.8	81.7	7.5	
ACCO UC8951	140.7	22.5	84.6	7.0	
HIGRO M-7072	140.6	21.7	87.2	9.3	
SELECT SEED 86	140.3	21.4	87.0	4.3	
NORTHROP-KING PX87	139.6	23.1	82.0	6.5	
GOLD TAP 3020	139.1	21.1	83.2	11.5	
VORIS SEEDS V2601	138.9	20.9	85.1	13.0	
STEWART SX77	138.7	21.9	78.2	5.7	
P.A.G. SX17A	138.6	20.6	84.6	12.8	
FUNK'S G4507	138.3	21.2	81.6	9.2	
NORTHROP-KING PX74	138.2	20.7	82.9	9.0	
GOLDEN AC. T-E 6995A	138.0	21.1	82.8	10.5	
PREMIER SX639	137.8	22.6	82.8	10.4	
MCCURDY HSX84	137.7	21.1	86.6	10.4	
STEWART 6573	137.1	22.8	84.2	11.6	
COLBERT 310	137.1	20.6	87.1	10.6	
P.A.G. SX333	136.8	20.7	82.5	9.0	
COKEP 22	136.2	22.6	84.0	11.0	
DEKALB XL72AA	136.0	20.8	82.5	8.6	
RING AROUND RA1502	135.7	21.4	79.9	5.6	
GOLDEN AC. T-E 6995	134.8	20.7	82.6	11.6	
ASGRIM RX98	134.7	20.7	83.1	11.5	
TROJAN TXS-114	134.6	21.0	85.4	10.8	
SELECT SEED 6400	134.3	20.8	83.5	10.2	
GUTWEIN 86	134.2	21.1	83.6	13.1	
RING AROUND RA2501	133.5	21.7	83.6	13.0	
VORIS SEEDS V2532	133.3	20.8	84.1	7.6	
BO-JAC 565	133.0	21.3	80.5	7.5	
RING AROUND RA2502	133.0	23.3	83.3	11.3	
COKER 16	132.8	21.3	86.9	9.4	
DENNIS DS-37	132.8	21.0	79.5	10.8	
SO STATES 88730	132.2	21.4	83.0	10.2	
ADLERS 62X	131.0	21.0	85.7	12.6	
ASGRIM RX90	131.2	20.7	82.0	10.4	
PRINCETON SX 840	130.6	23.0	83.5	8.1	
PREMIER SX633	130.4	21.2	82.3	10.0	
RING AROUND RA1501	130.1	20.7	81.7	9.5	
NORTHROP-KING PX79	129.6	20.5	83.3	7.8	
GOLDEN HARV. H2666	129.3	21.7	78.0	11.5	
DEKALB XL72B	128.3	21.2	80.3	9.4	
MCNAIR X194	128.2	21.7	83.7	12.3	
D'S GOLD SX5500	127.7	21.9	82.8	16.3	
ADLERS 87X	127.6	21.4	82.2	15.5	
PIONEER BRAND 3535	127.4	19.5	83.4	5.3	
SO STATES 88775	126.4	21.6	86.8	9.0	
GUTWEIN 72	126.2	21.0	78.0	5.8	
TROJAN TXS-119	123.0	22.5	79.1	11.3	
ACCO UC9792	121.4	23.2	79.5	8.0	
SUPER CROST 6800	119.6	21.7	77.9	15.1	
<b>YELLOW AVERAGE</b>	136.4	21.6	83.4	9.9	
<b>WHITE HYBRIDS</b>					
ZIMMERMAN Z52N	137.3	23.9	84.5	13.7	
FUNK'S G4747W	136.0	24.2	83.6	16.0	
SO STATES SS950W	135.8	23.9	83.9	11.2	
ZIMMERMAN Z11W	134.1	24.2	84.0	13.4	
PRINCETON SX910W	130.0	24.0	85.3	19.0	
GOLDEN HARV. H2660W	126.3	24.1	77.6	15.2	
<b>WHITE AVERAGE</b>	133.2	24.0	83.2	14.9	
<b>GRAND AVERAGE</b>	136.2	21.8	83.4	10.3	

Small differences in yield are usually of little importance. The yield of two varieties at a single location may differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture) even though the inherent yielding ability is the same. To decide if an observed yield difference is real, use the LSD (least significant difference) quoted at the bottom of the tables. If the difference in yield is greater than the LSD value, you may be reasonably certain that the entries actually do differ in yielding ability. "N.S." in the tables indicates that no statistically significant differences were determined.

#### 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 and 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 total number of plants and lodged 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. During the growing season, symptoms of MDM and MCD appeared on plants at the Frankfort location, but few plants had virus symptoms at the Henderson location. A late season flood destroyed the Frankfort plots

so that the only data collected from this location were the virus ratings. No virus ratings were obtained at Henderson because of the low incidence of infestation.

The ratings of virus symptoms from the Frankfort location are included with the yield and other data in Table 13. Even though the virus did little apparent damage to the hybrids at the Henderson location the yield data may be used to evaluate the relative yields of these potentially virus-resistant hybrids under low-level virus conditions.

The virus ratings in Table 13 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.

Five virus-susceptible check hybrids were included in the virus tests. Their average performance is listed in Table 13 as Susceptible Checks.

## NOTES ABOUT THE GROWING SEASON

### MAYFIELD

The Mayfield test was planted on May 18 and harvested October 18-20. Precipitation was heavy the last few days of May with 2.4 inches falling on May 19. Recorded precipitation amounts from May 19 through September were 4.19, 1.74, 7.23, 0.40, and 2.68 inches, respectively. Weed control was fair and disease and insect problems were minimal.

### PRINCETON

The Princeton test was planted on May 16 and harvested on October 17 and 18. Precipitation amounts recorded from May 16 through October 16 were 3.82, 3.17, 4.92, 5.99, 9.12, and 1.03 inches, respectively. Weed control was excellent and disease and insect problems were minimal.

TABLE 10.—(continued)

VARIETY	YIELD	Avg %	Avg %	Total %
	BU/Ac	Moist	Stand	Lodged
	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>				
Premier SX633	148.4	20.8	80.7	10.4
STEWART 6573	148.1	22.3	82.4	11.4
ASGROW RX90	147.6	20.5	82.4	13.3
P.A.G. SX368A	147.4	20.5	84.3	14.2
GOLDEN AC. T-E 6995	146.7	20.5	78.7	10.4
SO STATES SS730	146.3	21.2	83.6	14.8
ASGROW RX909	145.9	22.7	83.0	12.4
SUPER CRNST 79023	145.4	21.4	86.6	9.8
VORIS SEEDS V2532	145.3	20.7	84.9	10.1
RING AROUND RA1501	145.1	20.9	84.0	13.1
STEWART SX77	144.5	21.9	83.1	7.9
SO STATES SS775	143.8	21.3	87.3	8.2
PRINCETON SX 840	143.6	22.7	82.8	6.7
BALDRIDGE RX77	143.0	21.7	83.0	16.1
ADLERS 62X	142.7	20.7	84.0	10.3
ADLERS 86X	142.5	21.0	82.3	19.3
ASGROW RX98	141.9	20.9	83.7	12.4
MIGRO M-SPX49	141.4	19.6	89.3	14.9
RUFF'S R292	141.3	20.2	83.5	5.0
GOLDEN HARV. H2666	140.9	21.8	77.0	16.1
PIONEER R480D 3382	140.9	20.5	81.4	2.9
GOLDEN HARV. H2677	140.6	23.5	73.8	7.4
DENNIS OS-37	140.1	20.8	77.7	14.2
GUTHRIE 72	139.7	21.3	81.1	8.3
DEKALB XL728	138.5	21.0	80.6	11.0
MCHAIR X194	138.4	21.6	83.7	15.0
O'S GOLD SX5500	138.4	21.4	85.2	24.3
AGRI-CHEM. USS 1010	138.1	20.9	76.4	10.4
ACCO UC9792	138.0	23.1	84.0	7.9
ADLERS 87X	137.9	22.3	85.4	21.5
PIONEER R480D 3535	136.7	19.5	83.1	6.2
JACQUES JX180	136.0	20.9	76.6	9.4
RING AROUND RA2502	135.1	23.2	81.6	16.0
NORTHRUP-KING PX79	133.1	20.6	81.5	8.1
DENNIS OS-19	133.1	20.3	69.4	8.2
MIGRO H-HP61	133.1	21.2	77.6	12.2
TROJAN TXS-119	132.4	22.2	79.8	16.9
AGRI-CHEM. USS 2010	131.9	21.3	79.6	25.6
TROJAN T1109	128.7	21.2	81.1	12.5
ADT677	127.8	21.7	82.5	8.6
GOLDEN HARV. H2606	126.2	20.9	73.3	9.8
RUFF'S R150	125.7	21.0	78.0	4.6
BALDRIDGE RX24	125.5	20.2	76.3	17.3
SUPER CRNST 6400	117.3	21.7	75.5	23.2
<b>YELLOW AVERAGE</b>	156.2	21.4	83.7	11.8
<b>WHITE HYBRIDS</b>				
DEKALB XL3908	166.1	22.7	82.2	15.8
SO STATES SS950W	159.3	23.8	83.8	12.5
ZIMMERMAN Z52W	149.7	23.7	84.4	16.5
FUNK'S G4747W	148.5	23.9	80.9	19.1
ASGROW RX962W	147.5	23.7	80.4	20.5
PRINCETON SX910W	145.7	23.9	86.5	27.8
MCHAIR X233W	146.7	23.7	71.4	17.7
GOLDEN HARV. H266W	144.5	23.7	78.5	16.2
CUKEP 6104W	143.9	23.7	88.2	19.3
ZIMMERMAN Z11W	143.1	23.6	81.4	17.0
AGRI-GOLD A-6950W	138.8	23.5	83.1	17.5
<b>WHITE AVERAGE</b>	144.4	23.6	81.9	17.8
<b>GRAND AVERAGE</b>	150.0	21.6	83.5	12.4

**TABLE 10.—ANNUAL SUMMARY,  
ALL NON-VIRUS LOCATIONS**

VARIETY	YIELD BU/A <sup>c</sup> 1979	AVG % 1979	AVG % 1979	TOTAL STAND LODGED 1979	
				HOIST	STAND
<b>YELLOW HYBRIDS</b>					
AO-JAC 923	172.1	22.1	88.5	11.3	
MCCURDY 78-50	171.9	22.1	87.4	10.7	
ADLERS 88X	171.5	22.0	85.1	12.0	
CULBERT 345	169.6	22.6	83.9	10.8	
CARGILL 967	169.4	20.6	89.7	13.1	
DH9113	167.2	22.1	87.2	10.3	
CULBERT 340	167.1	21.6	88.3	7.3	
PIONEER BRAND 3311	167.0	21.5	89.2	7.9	
AGRI-GOLD A-6900	165.9	22.9	83.6	10.0	
SUPER CROST 79014	165.9	21.7	84.5	10.7	
PRINCETON SX870	165.5	21.5	82.6	13.4	
GUTWEIN 2910	164.9	22.0	80.6	9.9	
PIONEER BRAND 3369A	164.6	21.0	86.9	13.0	
JACOUES JX247	164.5	22.1	83.9	10.7	
NORTHRUP-KING PX95	164.3	24.4	83.2	6.7	
ZIMMERMANN Z20Y	164.2	21.8	89.1	10.7	
SELECT SEED 9300	164.1	21.6	85.7	13.9	
MCCURDY HSX88AA	163.5	22.3	84.5	9.6	
SELECT SEED 6400	163.3	20.6	86.0	18.2	
P.A.R. SX373	161.9	23.1	83.1	8.2	
STEWART 6973	161.8	22.1	82.4	8.4	
MIGRO M-0707	161.3	21.4	89.3	8.1	
VORIS SEEDS V2651	161.2	21.4	86.6	12.5	
AD1707	160.8	22.4	84.8	10.7	
HOBELIT XR441A	160.7	21.9	84.6	7.4	
O'S GOLD SX5509	160.4	22.0	88.4	8.0	
PIONEER BRAND 3184	160.2	21.7	89.7	11.5	
PIONEER BRAND 3183	159.8	21.6	87.1	9.6	
SELECT SEED 5100	158.8	20.7	88.4	10.0	
Premier SX636	157.0	22.4	85.2	7.6	
DEKALB XL71	156.9	21.5	85.1	6.4	
P.A.R. SX333	156.3	20.8	83.8	11.8	
DEKALB XL8P	155.7	22.7	85.4	14.5	
ZIMMERMANN Z22Y	155.6	21.5	83.2	7.1	
NORTHRUP-KING PX74	155.2	20.5	83.9	11.2	
DH7175	154.9	20.7	84.6	11.8	
GUTHWINK 86	154.9	20.7	84.7	14.3	
DEKALB XL72AA	154.8	20.5	85.9	9.7	
ACCO UC8451	154.4	22.0	86.4	8.2	
MCCURDY HSX88	153.3	20.7	89.0	15.2	
SO. STATES SS915	153.1	22.1	88.0	15.1	
TROJAN TX3-114	153.1	20.6	87.0	11.1	
FUNK'S G4606	153.0	20.8	83.0	8.1	
RING AROUND RA1502	152.9	21.3	82.8	7.7	
CULBERT 310	152.8	20.6	87.5	12.8	
AO-JAC 565	152.8	21.3	86.3	8.9	
MIGRO M-7072	152.7	21.7	86.4	11.5	
GOLD TAG 3020	152.4	20.7	82.6	15.9	
COKEH 22	152.3	22.8	82.7	11.4	
AO-JAC 83	152.2	21.5	85.2	15.3	
NORTHRUP-KING PX87	151.8	23.0	82.9	7.2	
COKEH 19	151.8	21.0	84.2	11.8	
GOLDFN AC. T-E 6995A	151.7	21.0	83.2	11.4	
P.A.R. SX17A	151.5	20.4	84.4	15.1	
SELECT SEED AA	151.5	21.3	87.1	12.0	
ZIMMERMANN Z24Y	151.2	21.2	85.2	16.2	
Premier SX639	151.0	22.0	81.8	11.3	
ADLEYS 61X	150.8	20.5	83.6	13.0	
FUNK'S G4740	150.8	23.3	84.9	23.7	
COKEH 16	150.0	21.3	87.0	9.6	
HOBELIT XR454	149.7	22.2	81.4	10.9	
RING AROUND RA2501	149.7	21.6	85.4	19.8	
SELECT SEED 6400	149.1	20.3	90.0	13.7	
FUNK'S G4507	149.1	21.3	81.3	15.5	
RUFF'S RR34A	148.7	21.4	83.2	17.9	
VORIS SEEDS V2601	148.6	20.6	85.0	16.4	

## HARTFORD

The Hartford test was planted on May 16 and harvested on October 15 and 16. Precipitation amounts recorded from May 16 through October 14 were 2.21, 3.50, 9.73, 4.63, 9.90, and 1.26 inches, respectively. Early infestation by the black cutworm reduced stands on one replication of the test. The plots were flooded with 3.0 feet of water in September but damage was not serious. Insect and disease problems were minimal.

## HENDERSON

The Henderson test was planted on May 22 and harvested on October 23. precipitation amounts were not recorded at this test site. The site was estimated to have had more than 30 inches of rainfall during the season. Flood waters covered the plots during September but damage was minimal.

## ELIZABETHTOWN

The Elizabethtown test was planted no-till, in soybean residue, on April 30 and harvested October 2-5. Precipitation amounts recorded for May through September were 3.01, 5.37, 6.59, 5.85 and 8.94 inches, respectively. Weed control was fair and there were no apparent disease or insect problems.

## FRANKLIN

The Franklin test was planted on May 1 and harvested September 26-27 and October 1. Recorded precipitation amounts from May through September were 4.43, 2.36, 11.04, 2.74, and 10.60 inches, respectively. High winds during September caused extensive plant lodging. Weed control was good. There was some damage from the European Corn Borer.

## QUICKSAND

The Quicksand test was planted on May 10 and harvested on October 29 and 30. Precipitation amounts recorded from May 10 through October 30 were 3.40, 3.74, 5.78, 5.79, 4.07, and 2.98 inches, respectively. Weed problems were minor. Some MDM may have been present on plants around a few areas of Johnsongrass. Other disease and insect problems were minimal.

## FRANKFORT

The Frankfort test was planted on May 29. The test was not harvested for yield. Limited precipitation data are available. Precipitation amounts of 3.15, 2.51, and 2.55 inches were recorded for June, July, and August, respectively. Precipitation data are not available for September and October; however, flood water covered the plot during September and caused serious damage. The incidence of virus diseases was very high.

## LEXINGTON

The Lexington test was planted May 9 and harvested on October 26 and 27. Precipitation amounts recorded for May through October were 2.77, 2.97, 7.00, 4.28, 10.11, and 2.65 inches, respectively. A few problem weeds were present. There were no excessive insect or disease problems.

TABLE 9.—(continued)

VARIETY	YIELD BU/AC 78-79	YIELD BU/AC 1979	Avg X MOIST 1979	Avg X STAND 1979	Avg X TOTAL 1979
	154.6	138.6	20.1	79.5	2.4
<b>YELLOW HYBRIDS</b>					
DENNIS DS-37	151.1	139.6	22.5	79.5	4.8
STEWART 6973					
BALDRIDGE RX77		138.5	21.3	83.3	9.4
ADLEYS 61X		138.3	18.9	86.2	7.2
O'S GOLD SX5509	138.6	138.3	21.1	79.5	6.4
Premier SX636		137.0	21.9	89.0	4.8
AGRI-CHEM. USS 1010		136.9	21.3	81.9	1.6
RUFFY'S R336A	141.6	136.2	22.5	94.3	10.8
VORIS SEEDS V2532	142.6	135.6	19.3	86.7	10.5
PRINCETON SX 840	137.2	135.4	22.1	86.7	4.9
STEWART 6573	148.2	135.2	22.3	84.3	6.5
NORTHROP-KING PX87	140.4	134.2	22.5	81.4	3.6
TROJAN TXS-114	138.6	133.7	20.6	86.2	7.2
RUFFY'S R292		133.1	20.1	82.4	2.2
JACQUIES JX180		132.0	20.5	76.7	8.1
SO. STATES SS775	129.4	131.9	22.0	90.0	5.4
SUPER CROST 79023		131.4	22.2	92.9	5.1
VORIS SEEDS V2601	137.8	131.1	19.7	91.9	5.6
MCNAIR X194	131.0	129.6	21.0	86.2	8.3
ADLEYS 86X		127.0	21.1	90.0	15.9
ACCO UC9792	124.9	126.1	22.2	85.2	3.4
P.A.F. SX368A		125.4	20.4	86.4	5.5
DENNIS DX-19		124.8	20.9	73.3	2.8
STEWART SX77	139.8	124.0	22.5	83.3	6.5
TROJAN T1189		124.2	20.8	99.5	7.2
GOLDEN HARV. H2606		122.3	19.9	73.8	3.9
HIGRO H-SPX49		122.1	19.7	93.8	8.1
PIONEER BRAND 33R2		122.0	20.1	85.2	6.2
O'S GOLD SX5500	108.2	121.3	20.7	87.1	55.1
NORTHROP-KING PX79	140.7	118.0	21.1	96.7	2.2
BALD RIDGE RX24		118.7	20.0	76.1	14.0
ASGRIM RX909		118.5	23.5	84.3	8.4
HOBBLIT RX454		118.4	22.4	79.0	6.7
SO. STATES SS915		115.1	20.3	90.0	31.1
GOLDEN HARV. H2666	131.4	114.5	22.3	78.6	16.6
TROJAN TXS-119	111.3	114.3	21.5	93.3	30.9
GUTWIN 72	126.3	110.3	20.9	72.9	7.7
SELECT SEED 6400	133.8	110.2	20.6	83.8	13.2
ADT677		107.6	22.5	87.1	5.5
SUPER CROST 6800	112.3	104.3	19.7	77.1	36.7
RUFFY'S R150		102.5	21.2	81.9	10.0
ASGRIM RX98	110.2	101.9	19.6	85.7	14.8
ADLEYS 87X	117.4	100.0	21.6	90.0	29.6
AGRI-CHEM. USS 2010		93.3	20.8	81.0	41.2
<b>YELLOW AVERAGE</b>	143.1	142.7	21.2	86.3	8.3
<b>WHITE HYBRIDS</b>					
DEKALB XL3908		182.2	22.3	87.1	6.0
MCNAIR X233W		170.8	23.1	81.9	8.0
PRINCETON SX910W	165.9	162.8	24.1	95.7	12.4
ZINNEMAN Z11W	158.5	162.2	23.0	93.3	5.1
SO. STATES SS950W	149.8	161.2	23.2	91.0	4.7
GOLDEN HARV. H2660W	146.9	150.0	24.2	82.4	7.5
COKE'S 6104W		144.8	23.4	94.3	8.1
ZIMMERMAN Z52W	145.8	141.7	23.1	93.3	7.8
ASGRIM RX962W		139.9	24.3	90.5	3.1
FUNK'S G4747W	147.8	137.6	23.1	96.7	16.9
AGRI-GOLD A-6950W		129.7	23.6	89.0	8.5
<b>WHITE AVERAGE</b>	152.5	153.0	23.4	89.6	8.0
<b>GRAND AVERAGE</b>	143.9	143.7	21.4	86.6	8.3
LSD (.05)*		33.8	2.2	10.3	15.4
C.V.		13.9	6.0	7.1	83.4

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.

TABLE 9.—ANNUAL SUMMARY,  
QUICKSAND, KY.

VARIETY	YIELD BU/A 78-79	YIELD BU/A 1979	Avg % Wet Stand 1979	Avg Yield Lodged 1979	Avg Yield X 1979
<b>YELLOW HYBRIDS</b>					
ADLER'S 6BX	180.7	22.9	90.5	4.2	4.2
MCCLOUD 78-50	177.4	22.1	91.0	6.3	6.3
DR9113	176.9	19.5	94.8	4.6	4.6
CARGILL 967	175.3	19.8	93.3	7.9	7.9
BO-JC 923	172.4	19.8	93.3	3.8	3.8
PIONEER BRAND 3311	165.3	171.2	21.8	87.6	87.6
GUTWEIN 2910	163.4	171.1	20.7	90.5	90.5
PIONEER BRAND 3369A	158.4	170.3	20.7	94.3	94.3
COLBERT 340	150.7	165.8	19.9	88.6	4.9
P.A.G. SX333	145.6	164.8	21.4	89.0	3.3
80-JC 83	145.6	164.7	22.7	86.1	1.7
DEKA 8 XL02	148.5	168.5	21.2	91.4	3.1
ADM 17	162.4	168.1	20.2	88.6	2.0
DEK-MB XL724A	160.4	163.9	20.7	88.6	2.2
GOLDEN AC T-E 3020	160.7	162.8	20.9	91.0	7.9
PIONEER BRAND 3184	156.7	162.6	20.9	89.5	8.5
AGRI-GOLD A-9900	149.9	161.6	19.6	89.0	9.2
P.A.G. SX17A	149.9	161.4	20.7	87.1	3.9
DEKA 8 XL71	150.9	161.3	19.8	82.4	5.2
ASGRIM RX90	150.9	160.8	20.2	82.4	2.2
FUNK'S 64507	147.0	160.7	22.3	90.5	5.2
HIGRO 4-007	150.4	160.7	21.9	91.9	13.3
SELECT SEED 8400	157.5	159.5	21.9	89.5	4.8
DRH 175	159.5	159.5	22.4	92.4	2.6
SELECT SEED 9300	159.5	159.5	22.4	87.6	5.5
JACOB'S J-247	151.6	159.0	20.6	80.5	3.1
ZIMMERMAN 2287	151.6	159.3	20.6	87.6	5.5
SUPER CROST 7904	150.5	157.7	21.1	88.1	5.1
PIONEER BRAND 3183	150.5	156.4	21.6	86.7	3.3
GOLDEN AC T-E 6995A	154.6	155.4	19.6	98.1	7.2
NURTRUP-KING P770	154.6	155.6	21.8	95.2	5.1
PIONEER BRAND 3183	152.9	155.0	21.8	95.2	2.2
NURTRUP-KING P795	152.9	155.0	22.3	87.6	1.6
ACCO UCR951	150.0	154.4	21.8	87.1	2.1
HOBILIT XRA41A	150.0	154.5	22.7	90.5	7.8
COLBERT 3195	161.1	154.3	20.3	89.5	6.5
SELLER SEED 5100	162.0	153.1	21.6	94.3	4.9
RING AROUND RA2001	161.7	151.9	21.6	91.9	6.7
ZIMMERMAN 2287	155.2	151.3	22.3	91.0	7.7
PIioneer BRAND 3183	142.6	150.6	21.9	90.5	3.7
SING AROUND RA1501	143.0	150.4	21.9	90.5	2.2
COKE'N 19	145.0	149.9	20.5	87.6	4.9
ACCO UCR951	157.3	149.7	21.7	86.2	10.2
HOBILIT H2677	145.9	148.9	20.4	87.1	4.9
PIONEER BRAND 3183	145.9	148.2	20.4	89.5	5.4
P.A.G. SX173	151.3	147.5	21.3	80.5	2.0
GOLDEN AC T-E 6995	151.3	147.5	21.8	93.3	5.7
MCCLOUD H-7072	149.3	147.5	20.9	95.7	10.9
VORS. SEEDS V2651	147.5	147.3	21.9	95.7	4.9
MCCLOUD H384	151.0	147.3	21.1	88.1	3.2
FUNK'S 64506	142.6	143.9	22.7	96.7	4.9
RING AROUND RA1502	143.0	146.8	20.8	85.7	1.1
COLBERT 310	139.3	146.4	20.9	90.5	2.1
DEKA 8 XL72B	144.6	145.9	20.6	86.7	9.3
ADLER'S 6BX	146.2	145.9	20.6	86.7	9.3
SELLER SEED 86	146.0	145.9	19.2	45.7	12.9
FUNK'S 64506	140.9	143.9	22.7	96.6	32.0
SO-STATES 55730	142.6	143.5	21.1	85.2	10.6
PRIME-ETON SX170	140.2	143.2	20.8	76.7	7.7
RING AROUND RA2502	131.3	142.2	22.5	91.4	13.2
COKER 22	142.9	141.9	23.8	80.0	10.9
GUTWEIN 86	138.4	141.7	20.4	88.6	10.9
MCCLOUD H384	138.4	141.5	21.6	89.6	9.2
BO-JAC 565	136.6	140.4	20.3	81.9	3.6
MIGRIN M-HP61	139.2	139.5	21.9	81.3	3.4
ZIMMERMAN 2287	156.0	138.9	21.9	90.0	5.9

TABLE 1.—HYBRIDS TESTED IN 1979

HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
<b>Agri-Chem</b>				
U.S.S. 1010	A	Yellow	2X	U.S.S. Agri-Chemicals
U.S.S. 2010	A	Yellow	2X	Div. of United States Steel
U.S.S. 2461	B	Yellow	3X	Corp., P.O. Box 1083, Atlanta, GA 30301
<b>Agri-Gold</b>				
XA 705	B	Yellow	2X	Agri-Gold Seed
XA 706	B	Yellow	2X	8888 Woodland Drive
A-6900	A	Yellow	2X	Newburg, IN 47630
A-6950W	A	White	2X	
<b>Asgrow</b>				
RX90	A	Yellow	2X	Asgrow Seed Co.
RX98	A	Yellow	2X	P.O. Box 1059
RX114	B	Yellow	3X	9001 Hickman Rd.
RX115A	B	Yellow	2X	Des Moines, IA 50053
RX909	A	Yellow	2X	
RX962W	A	White	2X	
<b>Baldridge</b>				
RX24	A	Yellow	3X (Mod)	Baldridge Seed Co.
RX77	A	Yellow	3X (Mod)	P.O. Box 82
RX335	B	Yellow	3X	Cherry Fork, OH 45618
<b>Bo-Jac</b>				
56S	A	Yellow	2X	Bo-Jac Hybrid Corn Co.
83	AB	Yellow	2X (Mod)	R.R. #2
XH 631	B	Yellow	2X	Mount Pulaski, IL 62548
XH 632	B	Yellow	2X	
923	A	Yellow	2X	
<b>Cargill</b>				
967	A	Yellow	2X	Cargill Seeds
951	B	Yellow	2X	P.O. Box 9480, Dept. 16 Minneapolis, MN 55440
<b>Cargill</b>				
967	A	Yellow	2X	
951	B	Yellow	2X	
<b>Cokier</b>				
16	A	Yellow	2X (Mod)	Coker's Pedigreed Seed Co.
22	A	Yellow	3X	P.O. Box 340, Hartsville, SC 29550
6104W	AB	White	3X	
<b>Colbert</b>				
310	A	Yellow	2X	Colbert Farms
340	A	Yellow	2X	R.R. #2
345	A	Yellow	2X	Washington, IN 47501
<b>D &amp; H</b>				
DH 7175	A	Yellow	2X	D. & H. Inc.
DH 9113	A	Yellow	2X	P.O. Box 623 Robinson, IL 62454
<b>DeKalb</b>				
XL71	A	Yellow	2X	DeKalb Ag. Research
XL72AA	AB	Yellow	2X	1536 Dunwoody, Village Park
XL72B	AB	Yellow	2X	Suite 240
XL82	A	Yellow	3X	Atlanta, GA 30338
XL390B	A	White	3X	
XL394	B	Yellow	3X	
<b>Dennis</b>				
M-19	B	Yellow	2X	Dennis Hybrid Co.
DX-19	A	Yellow	2X	P.O. Box 487
DS-37	A	Yellow	2X	Windfall, IN 46076
<b>Funk's</b>				
G4507	A	Yellow	2X	Funk's Seeds International
G4606	A	Yellow	2X (Mod)	1300 Washington Street
G4740	AB	Yellow	2X (Mod)	Bloomington, IL 61701
G4747W	A	White	Sp X	
G4787W	B	White	2X (Mod)	
G4848	B	Yellow	2X	
<b>Golden Acres</b>				
T-E 6945	B	Yellow	2X (Mod)	Taylor-Evans Seed Co.
T-E 6947	B	Yellow	2X (Mod)	P.O. Box 68
T-E 6995	A	Yellow	2X	Tulsa, TX 79088
T-E 6995A	A	Yellow	2X	
<b>Golden Harvest</b>				
H2606	A	Yellow	2X	Columbiana Seed Co.
H2660	A	Yellow	2X	Eldred, IL 62027
H2677	A	Yellow	2X	
H2745	B	Yellow	3X	
<b>Gold Tag</b>				
3020	A	Yellow	2X	Ferry Morse Seeds
				P.O. Box 24
				Genesee, IL 61254
<b>Gutwein</b>				
72	A	Yellow	2X	Fred Gutwein & Sons, Inc.
86	A	Yellow	2X	R.R. #1, Box 40
2910	A	Yellow	2X	Francesville, IN 47946
<b>Hoblit</b>				
XR441A	A	Yellow	2X	Hoblit Seed Co.
XR454	A	Yellow	2X	Atlanta, IL 61723

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

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

†X = Double Cross. Sp X = Special Cross.

TABLE 1.—(continued)

HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
<b>Gutwein</b>				
72	A	Yellow	2X	
86	A	Yellow	2X	
2910	A	Yellow	2X	
<b>Hoblit</b>				
XR441A	A	Yellow	2X	
XR454	A	Yellow	2X	

TABLE 8.—(continued)

VARIETY	YIELD		YIELD		AUG %		AUG %		TOTAL	
	BU/AC	80/AC	BU/AC	80/AC	MOIST.	STAND.	MOIST.	STAND.	BU/AC	80/AC
YELLOW HYBRIDS										
MICRO M-7012	138.6	132.7	150.2	149.1	21.9	96.7	21.9	96.7	3.5	3.5
MONAR X194	122.9	123.0	149.3	149.3	21.9	91.0	21.9	91.0	7.3	7.3
GOLDEN HARV. H2666	126.8	128.3	149.3	149.3	22.6	94.6	22.6	94.6	3.8	3.8
MICRO M-7017	126.8	127.2	149.2	149.2	21.0	94.6	21.0	94.6	4.0	4.0
BALDWIN 8X77										
RUFF'S R-92	119.7	123.6	149.1	149.1	20.9	88.6	20.9	88.6	3.0	3.0
PIONEER BRAND 33R2										
SELECT SEED 86	134.0	141.5	148.3	148.3	19.9	91.4	19.9	91.4	4.9	4.9
DEKALB XL72AA	131.4	126.6	147.6	147.6	22.4	88.6	22.4	88.6	3.3	3.3
AGRI-CHM. U.S. 1010										
GOLDEN AC. RA-6995	135.8	125.2	146.4	146.4	19.2	84.3	19.2	84.3	5.0	5.0
RING ARROUND PX74	114.9	118.9	145.9	145.9	20.6	87.6	20.6	87.6	3.7	3.7
DENNIS DX-19										
DEKALB XL728	125.5	126.5	147.3	147.3	21.1	74.6	21.1	74.6	1.0	1.0
BO-JIC 56S										
PIONEER BRAND 3535	138.4	144.6	145.6	145.6	22.3	90.5	22.3	90.5	1.6	1.6
NORTHUP-KING PX79	125.9	126.5	144.3	144.3	19.6	91.9	19.6	91.9	5.1	5.1
P.A.-K. SX333										
DAT-175	118.0	118.0	147.3	147.3	21.1	86.2	21.1	86.2	6.8	6.8
SELECT SEED 5100	119.4	121.5	142.5	142.5	21.2	92.9	21.2	92.9	3.1	3.1
VORIS SEEDS 2532	120.4	123.5	142.5	142.5	19.8	89.5	19.8	89.5	2.7	2.7
BO-JIC 53										
ACCO UC792	133.7	132.0	142.4	142.4	22.3	94.3	22.3	94.3	5.7	5.7
AGRI-CHM. U.S. 2010										
RING ARROUND RA2562										
STEWART SX77	124.9	124.9	140.7	140.7	23.7	88.1	23.7	88.1	4.7	4.7
MICRO H-HP61	132.0	135.2	140.7	140.7	21.9	91.0	21.9	91.0	5.2	5.2
COKED 19										
TROJAN 1169										
RUFF'S R-150										
ACCO UC792										
ADLE'S 62X										
JACQUES X180										
GUTWIN 72										
SUPER CROSS 6800	69.0	64.0	79.0	79.0	2.0	92.0	2.0	92.0	1.0	1.0
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	65.73	64.0	76.0	76.0	2.0	92.0	2.0	92.0	1.6	1.6
SECRETARIE SX77	69.00	64.0	76.0	76.0	2.0	92.0	2.0</			

TABLE 8.—ANNUAL SUMMARY, LEXINGTON, KY.

VARIETY	YIELD BU/A 77-79	YIELD BU/A 78-79	YIELD BU/A 1979	Avg % Moist 1979	Avg % Stand 1979	X Total Lodged 1979
YELLOW HARRIDS						
AGT GOLD A-6900						
PIONEER BRAND 3511	162.1	192.1	21.6	90.0	2.1	
ADLERS 88X		162.3	21.2	92.9	1.6	
FUNK'S 61606	180.3	180.3	22.2	91.0	5.6	
NORTHRUP-KING PX95	179.6	180.3	21.4	93.3	5.6	
SELECT SEED 9300	150.3	179.1	25.6	86.8	3.9	
JACQUES JX247	177.9	21.1	93.3	4.3	7.3	
PRINCETON SX4870	176.8	20.1	86.6	7.0	1.6	
MCCURDY HSX144A	176.7	176.6	21.6	94.3	3.4	
O'S. GOLD S35509	155.2	175.0	22.0	93.8	2.5	
PIONEER BRAND 3184	157.1	151.0	175.0	23.8	92.9	2.4
CARROLL 967		171.6	21.0	90.5	1.9	
ZIMMERMAN 280Y	143.0	148.2	173.0	21.4	84.3	
BQ-JAC 923	149.3	159.7	160.7	22.7	89.0	3.2
SO. STATES S3915		172.0	22.6	87.7	1.0	
PIONEER BRAND 3183	147.4	171.8	22.1	97.1	4.5	
COWEE 16	142.2	171.6	21.6	92.9	4.1	
NORTHRUP-KING PX87	142.2	171.2	22.5	91.9	1.0	
SUPER CROST 79014	143.4	170.7	21.8	90.5	5.3	
DH9113		170.4	21.6	86.2	4.6	
COLBERT X45	136.3	170.1	23.2	89.0	3.2	
PIONEER BRAND 3369A	149.2	155.2	160.7	22.7	94.0	
P. G. S373		161.1	23.4	88.8	9.0	
RIBB ROUND RA4502	137.2	142.6	162.4	22.2	86.3	
HOBIT KX454		162.4	21.3	89.5	3.8	
SELECT SEED 8400		166.9	20.6	93.8	3.0	
ASCRDW RY98		166.4	22.8	89.8	1.5	
MCCURDY 78-50		165.9	21.8	88.6	3.6	
GUTHRIE 2910		165.6	24.9	85.2	10.8	
FUNK'S 4740		164.4	20.8	91.0	0.5	
SUPER CROST 79023		162.2	20.8	91.9	6.2	
P. G. S3368A		162.4	20.2	85.2	13.8	
GUTHRIE 86	137.9	139.4	163.4	22.2	95.2	
VORIS SEEDS V2651		163.0	21.2	95.2	5.4	
PRINCETON SX 840	136.6	137.2	162.0	21.5	90.0	
COLBERT 340	130.1	134.3	162.0	23.7	89.0	
ADLERS 88X		161.7	21.8	95.7	3.0	
STEWART 6973		161.2	20.9	87.1	4.4	
ASCROW RY909		159.7	22.3	81.9	5.6	
HOBIT RY41A		159.5	22.3	91.4	3.7	
ZIMMERMANN 222Y	138.6	136.7	159.4	22.1	89.5	10.3
DEFALB 3182		158.7	159.3	21.9	92.9	2.5
SELECT SEED 6400		159.2	22.7	91.4	3.6	
VORIS SEEDS V2601	135.0	131.8	157.9	21.8	94.8	1.1
DEARBORN 71		134.9	159.9	20.0	91.0	5.3
SO. STATES SS730	133.0	134.0	155.9	22.8	89.0	4.9
MICRON H-SP494		155.8	20.7	90.5	7.4	
RING AROUND RA2501		155.8	20.4	93.0	14.2	
PIONEER SX333	128.1	127.2	151.6	21.2	87.6	5.9
RUFF S3384	137.2	142.5	154.4	22.2	87.6	2.2
ZIMMERMANN 224Y	136.7	132.9	155.2	20.6	91.9	5.3
PIONEER SX659		138.9	156.0	22.7	91.0	3.2
O'S. GOLD S35500	129.6	128.4	151.4	22.0	94.8	5.1
GOLDEN C. T-E 6995A		152.2	19.6	90.5	7.6	
ACCROY HSX4		150.0	19.3	96.6	4.1	
ADLERS 61X		153.9	20.7	93.3	7.0	
TROJAN TYS-114	135.4	132.3	157.5	21.5	91.0	3.5
GOLDEN HARV. H2677		152.5	23.7	86.7	4.9	
SO. STATES SS775	136.3	130.7	152.4	21.0	94.3	1.0
ACCO UC 8951	134.1	130.6	152.3	22.4	91.9	2.1
COLBERT 310	130.2	129.0	152.0	20.2	88.6	15.2
ADLERS 88X	135.8	138.9	151.9	23.6	88.3	4.0
P. G. S317A		151.9	21.2	89.0	6.5	
PIONEER SX636	126.5	131.0	151.1	21.2	89.0	4.8
	150.5	91.4				

TABLE 2.—AGRONOMIC INFORMATION PERTAINING TO 1979 TEST LOCATIONS

Location and Cooperator	Soil Type	Fertilizer 1b/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> - 92 K <sub>2</sub> O - 60	Aatrex and Dual	Furadan 18 lb/A	May 18	October 18, 19 & 20
(2) Princeton, KY Western KY. Substation	Huntington and Lindsdale Silt Loam	N -180 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O - 75 Lime-2 ton	Eradicane and Bladex	Furadan 18 lb/A	May 16	October 16 & 17
(3) Henderson, KY James Buley Reid, KY	Huntington Sandy Loam	N -86 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O -None	Sutan+ and Aatrex	None Applied	May 22	October 23
(4) Hartford, KY Dane Milligan	Melvin Silt Loam	N -200 P <sub>2</sub> O <sub>5</sub> - 92 K <sub>2</sub> O -120	Eradicane and Aatrex	Furadan 18 lb/A	May 16	October 14 & 15
(5) Franklin, KY Harold Konow	Pembroke Silt Loam	N -165 P <sub>2</sub> O <sub>5</sub> -100 K <sub>2</sub> O -100	Aatrex	Furadan 18 lb/A	May 1	September 26 & 27 October 1 & 2
(6) Elizabethtown, KY A.C. and Alan Summers	Crider Silt Loam	N -132 P <sub>2</sub> O <sub>5</sub> - 40 K <sub>2</sub> O - 40 Lime-2 ton	Aatrex, Dual, and Paraquat	Furadan 18 lb/A	April 30	October 3 & 5
(7) Frankfort, KY Mason and Ralph Bates	Armour Silt Loam	N -100 P <sub>2</sub> O <sub>5</sub> -None K <sub>2</sub> O -None	Eradicane and Aatrex	None Applied	May 30	Not Harvested
(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	Eradicane and Aatrex	Furadan 18 lb/A	May 9	October 26 & 27
(9) Quicksand, KY Robinson Substa.	Philo Silt Loam	N -180 P <sub>2</sub> O <sub>5</sub> - 72 K <sub>2</sub> O - 72	Eradicane, Aatrex, and Lasso	Furadan 18 lb/A	May 14	October 29 & 30

TABLE 3.—ANNUAL SUMMARY, MAYFIELD, KY.

TABLE 7.—(continued)

VARIETY	YIELD BU/AC 77-79	YIELD BU/AC 78-79	Ave. % Yield Stand Lodged	Ave. % Moist Stand	Ave. % Total	YIELD BU/AC 77-79	YIELD BU/AC 78-79	Ave. % Yield Moist Stand	Ave. % Total	YIELD BU/AC 77-79	YIELD BU/AC 78-79	Ave. % Yield Moist Stand	Ave. % Total
<b>YELLOW HYBRIDS</b>													
COLBERT 345	118.6	135.8	186.1	20.6	83.8	0.6	120.7	136.4	155.0	22.8	69.7	15.3	
BO-JAC 925		125.9	182.1	19.2	63.3	6.2	128.7	120.7	122.9	89.3	14.8		
PRINCETON SX870		140.2	19.6	41.4	6.7	132.6	154.9	21.1	63.3	7.4			
CARROLL 967		179.3	17.7	90.9	6.1	143.9	143.0	154.6	21.9	85.9	19.0		
MCCARTHY MSX444		177.8	20.7	62.9	2.8	154.2	154.9	21.9	89.7	19.7			
SUPER CROST 78014		177.4	19.5	61.9	5.7	152.9	150.6	22.3	76.1	15.2			
SELECT SEED 9310		123.6	173.7	19.4	86.2	7.3	150.6	159.2	152.9	22.3	84.6	3.6	
GOLDEN AC-Y-E 69954		126.6	164.4	18.6	82.9	8.5	132.6	136.3	122.0	22.0	79.1	10.4	
SELECT SEED 84400		164.0	164.0	18.5	74.3	10.1	123.5	123.9	152.2	23.1	83.3	20.0	
GUTHIN 2910		163.0	20.2	85.7	2.1	141.5	141.7	141.7	20.7	78.6	7.2		
WORL'S SEEDS V2651		138.6	169.9	18.3	79.0	13.4	123.5	123.9	152.2	23.1	83.3	20.0	
PIONEER BRAND 3369A		114.1	117.8	16.9	76.7	10.2	122.6	122.6	122.6	22.6	87.2	4.9	
MCCUPPY 78-50		167.4	19.6	76.7	10.2	167.4	20.2	82.9	5.6	0.0	0.0	0.0	
SELECT SEED 5100		127.8	127.7	167.2	6.2	166.0	19.7	84.8	5.4	22.1	61.2	9.9	
COLBERT 340		121.5	114.0	19.6	79.0	13.5	120.6	120.6	120.6	21.6	88.9	19.7	
MCCARTHY MSX44		109.8	160.2	20.2	82.9	5.7	141.0	150.6	150.6	21.5	89.7	19.7	
GOLDEN AC-Y-E 69954		132.5	159.7	19.1	84.3	17.0	136.3	140.1	140.1	21.5	89.7	19.7	
SELECT SEED 84400		112.6	112.6	16.7	84.8	7.8	127.9	137.1	147.1	21.8	75.6	30.4	
GUTHIN 2910		112.9	109.2	20.3	79.1	8.9	129.6	133.5	145.5	22.2	82.1	23.0	
ZIMMERMANN 2620Y		112.0	162.5	19.8	87.6	7.5	145.5	145.5	145.5	21.4	76.6	29.5	
OH9113		120.5	120.5	19.3	84.0	4.9	120.5	120.5	120.5	21.5	85.0	29.5	
PUNK'S GOLD 86		121.5	114.0	161.6	19.6	79.0	13.5	120.5	120.5	120.5	20.6	83.3	27.3
FUNK'S GS607		109.8	160.2	20.2	82.9	5.7	147.7	147.7	147.7	21.5	70.1	7.1	
STEWART 693		132.5	159.7	19.1	84.3	17.0	136.4	140.1	140.1	21.5	89.7	19.7	
MCCARTHY MSX44		112.6	112.6	16.7	84.8	7.8	127.9	137.1	147.1	21.8	75.6	30.4	
PIONEER BRAND 3311		112.6	159.8	19.1	84.3	17.0	129.6	133.5	145.5	22.2	82.1	23.0	
ADLER'S 8X		112.0	158.1	19.8	85.2	11.7	145.5	145.5	145.5	21.4	76.6	29.5	
BO-JAC 565		112.0	158.1	19.7	84.8	13.1	120.5	120.5	120.5	20.6	83.3	27.3	
AGRI-GOLD A-6900		114.8	114.8	17.6	79.5	13.5	120.5	120.5	120.5	20.6	83.3	27.3	
DEAL'S 5174		106.2	110.3	15.9	76.7	8.4	120.5	120.5	120.5	20.6	83.3	27.3	
ROJIN TS-14		104.4	110.7	151.7	19.3	84.3	118.5	120.5	120.5	20.1	84.6	18.6	
GUTHIN 46		109.8	109.9	16.3	82.9	9.4	120.5	120.5	120.5	20.1	84.6	18.6	
HORNTHUP-KING PX95		95.6	115.2	16.4	73.8	5.0	120.5	120.5	120.5	20.1	84.6	18.6	
JACOB'S JXP77		115.2	156.0	20.6	74.3	7.5	120.5	120.5	120.5	20.1	84.6	18.6	
AGRI-GOLD A-6900		115.2	156.0	19.0	75.7	3.4	120.5	120.5	120.5	20.1	84.6	18.6	
PIONEER BRAND 3183		122.5	155.0	19.9	84.8	6.1	120.5	120.5	120.5	20.1	84.6	18.6	
PREMIER SX616		124.2	116.6	20.0	84.8	1.1	120.5	120.5	120.5	20.1	84.6	18.6	
BO-JAC 83		113.6	113.6	17.7	84.3	7.1	120.5	120.5	120.5	20.1	84.6	18.6	
HORNTHUP-KING PX95		113.7	110.7	16.8	82.9	8.4	120.5	120.5	120.5	20.1	84.6	18.6	
RUFF'S RT34		120.1	120.9	16.4	82.9	6.0	120.5	120.5	120.5	20.1	84.6	18.6	
SO. STATES SS4015		101.6	113.6	19.5	84.5	11.4	120.5	120.5	120.5	20.1	84.6	18.6	
GUTHIN 72		113.4	103.6	17.3	84.3	11.3	120.5	120.5	120.5	20.1	84.6	18.6	
PREMIER SX639		113.7	153.2	19.6	82.9	12.8	120.5	120.5	120.5	20.1	84.6	18.6	
PIONEER BRAND 3184		124.2	101.7	152.6	19.4	80.5	120.5	120.5	120.5	20.1	84.6	18.6	
O'S GOLD SX5050q		101.3	151.7	20.3	79.5	5.5	120.5	120.5	120.5	20.1	84.6	18.6	
ASGRW RX90		120.9	113.2	15.7	83.3	14.1	120.5	120.5	120.5	20.1	84.6	18.6	
STEWART 693		101.6	151.6	20.9	71.9	11.4	120.5	120.5	120.5	20.1	84.6	18.6	
P.A.C. SX333		117.3	151.2	18.6	77.1	13.1	120.5	120.5	120.5	20.1	84.6	18.6	
HORNTHUP-KING RT072		122.5	106.8	150.7	19.8	77.1	120.5	120.5	120.5	20.1	84.6	18.6	
TROJAN TS-14		127.9	111.9	160.5	20.2	80.5	120.5	120.5	120.5	20.1	84.6	18.6	
AGRI-GOLD SK173		116.6	150.7	19.6	82.9	6.7	120.5	120.5	120.5	20.1	84.6	18.6	
ADLE'S 61X		121.3	114.0	149.7	19.5	81.0	120.5	120.5	120.5	20.1	84.6	18.6	
COKE' 19		121.3	114.0	149.5	18.9	77.6	120.5	120.5	120.5	20.1	84.6	18.6	
OH175		107.8	106.9	149.2	18.4	80.0	120.5	120.5	120.5	20.1	84.6	18.6	
PREMIER SX613		113.2	115.1	149.2	18.2	78.6	120.5	120.5	120.5	20.1	84.6	18.6	
AGRI-GOLD RX2501		101.3	101.3	149.7	18.7	77.3	120.5	120.5	120.5	20.1	84.6	18.6	
ASGRW RX951		113.7	107.8	149.4	18.7	77.3	120.5	120.5	120.5	20.1	84.6	18.6	
CORE-W 22		111.1	117.3	147.0	18.6	77.1	120.5	120.5	120.5	20.1	84.6	18.6	
SPRKR RX909		147.0	146.6	146.6	18.6	77.3	120.5	120.5	120.5	20.1	84.6	18.6	
ADLER'S 8X		146.9	146.9	146.9	18.8	78.6	120.5	120.5	120.5	20.1	84.6	18.6	
DEAL'S XL32		116.7	116.7	149.3	18.6	80.5	120.5	120.5	120.5	20.1	84.6	18.6	
O'S GOLD SX5500		101.3	101.3	146.7	18.6	72.1	120.5	120.5	120.5	20.1	84.6	18.6	
GOLDEN HARV H2666		118.6	109.1	146.6	18.6	80.5	120.5	120.5	120.5	20.1	84.6	18.6	
GOLD TAG 3050		117.0	117.0	146.6	18.6	80.5	120.5	120.5	120.5	20.1	84.6	18.6	
NORTHUP-KING PX74		130.2	111.2	146.6	17.6	71.0	120.5	120.5	120.5	20.1	84.6	18.6	

GRAND AVERAGE 122.4 126.2 146.2 24.3 81.9 19.9

ISD (.05) \* 122.4 126.2 146.2 24.3 81.9 15.7

C.V. 10.2 7.2 9.0 68.5

\* For the differences between two means to be significant at the LSD level the observed differences must exceed the LSD.

TABLE 7.—ANNUAL SUMMARY, ELIZABETHTOWN, KY.

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LODGED
	77-79	78-79	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>						
COLBERT 345	184.5	194.8	22.8	89.3	10.1	
ADLERS 80X	188.3	22.2	86.3	5.6		
TROJAN TXS-114	142.2	146.6	181.1	21.0	91.5	13.8
P.A.G. SX373	178.9	24.4	79.9	6.2		
SO-JAC 923	143.9	158.4	178.5	24.2	88.5	4.2
AGRI-GOLD A-6900	178.1	24.1	79.9	6.6		
DEKALB XL71	176.7	21.6	80.8	7.1		
AD1707	176.4	24.0	92.3	9.5		
SELECT SEED 5100	146.6	148.3	176.0	21.9	87.2	5.9
GUTHRIE 2910	175.3	23.0	76.1	16.3		
SO-JAC 83	156.0	166.5	175.2	21.3	84.6	26.5
MCCUDDY 78-50	175.1	23.6	86.3	20.8		
O'S GOLD SX5509	165.8	175.0	23.8	86.3	4.8	
MCCUDDY MSX84AA	174.4	23.4	84.6	26.0		
PRINCETON SX 840	134.7	140.0	173.3	23.6	91.0	10.2
STEWART 6973	157.8	173.3	24.4	86.8	7.5	
NORTHROP-KING PX95	154.1	173.1	26.6	82.9	2.6	
DEKALB XL72AA	127.8	139.8	172.0	21.0	89.3	12.9
HORLIT XL454	171.7	22.3	82.5	18.3		
GOLD TAG 3020	134.4	147.6	171.6	21.6	86.3	21.1
ZIMMERMANN Z22Y	154.6	171.1	22.5	83.8	10.7	
P.A.G. SX333	137.2	171.0	22.1	78.2	11.4	
JACQUES JX247	169.7	24.2	84.2	8.9		
SUPER CROST 79014	169.6	22.8	79.1	9.9		
VORIS SEEDS V2651	169.1	22.2	86.3	20.4		
GOLDEN AC. T-E 6995A	152.3	168.0	21.0	86.8	30.7	
ZIMMERMANN Z20Y	143.9	187.7	168.8	23.0	84.2	23.3
HIGH M-7077	162.5	168.7	21.3	89.3	5.4	
P.A.G. SX368A	168.4	21.4	88.0	18.6		
SELECT SEED 6400	130.1	138.6	168.2	22.3	91.9	9.0
SO-JAC 565	135.5	167.8	23.3	85.0	9.5	
COLBERT 340	167.5	21.2	86.8	10.8		
DH1715	167.4	21.2	83.8	9.0		
PRINCETON SX870	167.4	24.0	84.6	17.4		
CARGILL 967	167.2	21.9	85.5	12.6		
PREMIER SX636	166.5	22.5	82.1	11.3		
SELECT SEED 9300	166.2	22.1	82.9	6.4		
SELECT SEED 8400	165.9	22.0	93.2	37.5		
COKEP 22	144.9	143.4	165.1	23.7	84.2	6.6
DEKALB XL82	164.6	22.4	81.2	4.7		
DH9113	164.2	24.5	85.0	12.0		
PIONEER BRAND 3184	133.7	147.0	164.1	21.9	86.8	20.4
RING AROUND RA2501	139.8	163.7	21.4	86.8	37.3	
PIONEER BRAND 3183	133.0	163.5	22.3	85.5	15.8	
NORTHROP-KING PX87	153.2	163.2	25.2	87.2	4.8	
ADLENS 61X	162.7	20.6	78.2	17.1		
GOLDFN AC. T-E 6995	139.6	144.3	161.6	20.8	82.5	9.1
VORIS SEEDS V2601	154.6	161.5	22.8	86.8	20.4	
RUFFE'S RX334A	148.0	157.0	161.1	19.9	85.9	30.3
VORIS SEEDS V2532	136.7	143.7	160.3	22.1	89.7	13.3
FUNK'S G4740	159.8	20.9	95.3	25.6		
PREMIER SX633	123.3	138.4	159.1	21.4	85.9	15.0
ASGRW RX98	138.2	158.7	22.0	86.3	19.8	
SELECT SEED 86	138.2	142.1	158.3	22.0	91.5	28.3
GUTHRIE 86	130.1	136.1	158.3	20.6	83.8	29.3
ADLENS 62X	137.7	137.6	158.0	20.8	82.1	7.4
PREMIER SX639	143.2	157.3	22.2	79.9	12.3	
MCCUDDY MSX84	146.8	157.0	21.2	93.2	29.7	
HORLIT XZ41A	138.9	145.6	156.9	23.1	74.4	3.1
SO. STATES SS915	156.7	22.6	93.6	8.6		
STEWART SX7	155.7	146.9	155.9	23.6	79.5	10.7
ASGRW RX909	155.6	22.7	85.9	17.8		
PIONEER BRAND 3369A	145.7	142.9	155.6	22.0	82.5	23.2
HIGH M-7072	137.6	150.4	155.8	22.4	82.9	33.4
STEWART 6573	128.8	155.1	22.5	87.6	6.3	
RING AROUND RA2502	157.1	155.0	25.0	83.3	24.5	

TABLE 3.—(continued)

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LODGED
	77-79	78-79	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>						
SELECT SEED 6400	115.0	108.1	146.0	17.0	88.6	8.3
DENNIS DR-37	111.2	104.2	103.6	19.3	71.9	12.1
ASGRW RX98			109.5	103.6	17.9	80.5
GOLDFN AC. T-E 6995	106.2	103.6	143.1	18.3	73.8	7.4
SO. STATES SS775	120.0	106.3	143.0	18.9	81.4	3.9
HIGRO M-SPX49	142.4	16.6	16.2	18.6		
FUNK'S G4606	142.0	17.6	80.0	5.6		
SUPER CROST 79023	141.5	18.0	90.0	4.7		
ACCO UC9792	96.2	93.5	140.9	21.2	75.2	7.0
FUNK'S G6740			140.8	20.5	75.2	27.2
STEWART SX77	126.3	102.5	140.7	19.0	71.4	3.6
HOBLLT RX454			140.5	20.6	77.6	2.0
PIONEER BRAND 3362	139.7	18.4	74.8	2.5		
RING AROUND RA1502	109.1	106.1	139.1	20.0	67.6	2.9
AD1707			138.0	19.6	74.3	6.6
P.A.G. SX368A	137.4	17.4	74.3	6.2		
GOLDFN HARV. H2606	137.3	18.1	75.2	12.7		
DEKAIR XL72B	116.7	106.7	136.9	18.4	75.7	4.9
MCNATH X194	107.8	109.1	136.5	18.8	78.1	8.1
ZIMMERMANN Z24Y	111.0	102.6	145.8	20.1	69.0	10.1
COKER 16	116.8	101.7	130.9	18.5	73.8	5.5
NORTHROP-KING PX79	104.1	93.0	133.8	17.5	74.3	5.5
RING AROUND RA1501	101.2	106.8	133.5	19.0	74.3	3.9
ADLERS 62X	110.0	102.9	132.6	18.5	75.2	4.5
HIGRO M-HP61			132.1	18.9	68.6	6.2
NORTHROP-KING PX87	92.2	131.1	20.7	76.2	10.8	
DEKAIR XL71	129.3	19.2	80.5	3.8		
RUFFE'S R292	129.3	17.2	76.2	7.2		
GOLDFN HARV. H2677	128.9	20.6	65.7	6.6		
ZIMMERMANN Z22Y	102.2	127.9	19.4	67.1	7.1	
AGRI-CHEM. USS 1010			126.9	19.1	67.1	7.6
BALDRIDGE RX24	126.5	17.2	70.0	19.3		
BALDRIDGE RX77	125.9	19.5	82.4	11.9		
VORIS SEEDS V2532	109.9	100.3	125.8	18.3	72.9	3.9
JACQUES JX180			125.0	18.0	63.3	0.0
TROJAN T1189	121.7	19.0	71.1	7.0		
SO. STATES SS730	91.7	97.0	120.9	19.3	66.7	14.8
PIONEER BRAND 3535			101.2	20.5	71.0	4.5
RING AROUND RA2502	91.6	119.6	20.5	74.3	11.4	
PRINCETON SX 840	88.2	86.0	116.0	20.2	65.2	0.7
AD1677	115.4	19.2	75.2	5.6		
RUFFE'S R150	114.0	18.1	66.7	10.1		
DENNIS DX-19	110.1	17.9	60.0	2.2		
SUPER CROST 6800	109.0	91.6	107.5	19.0	74.3	23.9
<b>YELLOW AVERAGE</b>						
	113.1	110.0	147.6	19.2	77.9	8.4
<b>WHITE HYBRIDS</b>						
DEKAIR XL7908			167.4	20.2	76.7	20.1
SO. STATES SS950W	96.0	108.3	165.9	20.7	82.9	9.2
ASGRW RX962W			160.7	21.5	73.8	27.7
ZIMMERMANN Z52W	103.7	106.7	160.5	20.4	81.4	15.9
GOLDFN HARV. H2660W	95.1	107.0	160.1	20.1	77.6	17.8
FUNK'S G4747W	96.7	104.4	154.2	20.0	71.4	18.2
ZIMMERMANN Z11W	104.0	109.2	155.5	20.7	68.6	6.8
PRINCETON SX910W	106.5	104.3	150.0	22.4	82.9	41.8
COKEP 6104W			145.4	20.5	77.6	12.8
MCNATH X23W	141.0	20.7	58.6	7.3		
AGRI-GOLD A-6950W	130.7	20.0	72.9	6.5		
<b>WHITE AVERAGE</b>						
	100.3	106.7	155.0	20.7	74.9	16.7
<b>GRAND AVERAGE</b>						
	111.6	109.8	148.2	19.3	77.6	9.1
LSD (.05)*			27.8	1.4	14.4	13.0
C.V.	11.1	4.3	11.0	84.7		

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.

TABLE 4.—ANNUAL SUMMARY, PRINCETON, KY.

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LONGED
	77-79	78-79	1979	1979	1979	1979
YELLOW HYBRIDS						
HOBBLIT X9441A	171.8	164.9	195.1	21.3	93.8	3.0
ZIMMERMAN Z20Y	162.5	170.5	194.6	22.4	92.9	7.4
SELECT SEED 8400			194.3	20.8	94.3	5.1
P.A.G. SX373			189.2	21.7	93.3	5.2
SELECT SEED 5100	177.2	170.4	187.4	22.2	97.1	1.4
MCCUDDY 78-50			185.0	21.7	91.0	3.6
BO-JAC 923	165.2	167.7	183.4	23.8	94.3	5.5
PIONEER BRAND 3311			170.1	18.7	94.3	2.0
PIONEER BRAND 3369A	180.7	173.5	181.4	20.1	95.2	8.6
DH7175			180.5	21.1	92.4	4.7
NORTHROP-KING PX74	139.1	152.9	179.4	21.9	91.9	3.1
COKER 19			179.0	21.8	99.5	0.5
CARGILL 967			178.8	21.4	94.7	8.8
GUTHWFTN 2910			178.8	23.0	89.4	5.8
PREMIEER SX636			178.8	24.5	91.9	3.1
VORIS SEEDS V2651			178.7	22.0	92.4	5.4
COLBERT 310	169.2	164.1	178.5	22.2	97.0	3.1
ACCO UC9951	155.0	162.0	178.2	21.6	91.9	4.7
O'S GOLD SX5509			159.8	17.3	20.9	93.8
SO. STATES SS915			176.4	24.0	93.3	4.6
PRINCETON SX870			176.3	22.0	86.7	7.6
STEWART 6973	170.6	175.9	22.3	90.5	8.4	
COLBERT 340			175.6	22.0	85.2	1.0
ZIMMERMAN Z24Y	161.1	163.9	174.9	21.3	93.8	6.5
MIGRAN M-707P	150.9	161.4	174.4	22.2	97.1	2.5
RING AROUND RA1502	155.2	147.7	175.0	21.7	88.6	4.7
FUNK'S G4507	144.4	160.4	171.8	21.2	91.4	4.5
NORTHROP-KING PX95	166.3	171.7	25.6	88.1	11.2	
DH9113			171.6	23.0	93.8	3.6
DEKAIR XL71			171.5	22.3	89.5	3.7
GUTHWFTN 86	143.9	154.2	171.5	20.2	92.4	4.6
PIONEER BRAND 3184	164.3	162.0	171.5	22.3	97.6	1.5
P.A.G. SX333			160.2	170.9	21.8	88.1
STEWART SX77	163.3	160.0	170.8	21.3	88.1	4.6
SO. STATES SS730	148.5	153.6	170.8	21.0	91.0	12.1
COLBERT 345			170.7	23.5	82.0	3.3
COKER 22	166.8	153.1	169.9	22.8	89.5	4.4
JACOBIES JX247			169.2	22.0	86.2	3.8
DEKAIR XL72AA	128.7	143.9	161.9	21.4	91.9	7.0
TROJAN TXS-114	149.2	156.5	161.2	21.1	92.0	8.2
SELECT SEED 6400	158.3	146.2	161.2	20.5	88.4	12.4
BO-JAC 565			168.7	167.9	22.7	94.3
ZIMMERMAN Z22Y	151.1	167.8	21.9	89.5	5.3	
ADLEPS 62Y			167.7	21.8	90.0	15.3
GOLD TAG 3020	148.2	186.5	167.2	20.4	86.2	20.0
MCCUDDY MX844AA			166.9	23.9	83.8	6.7
AD1747			166.7	22.4	91.4	16.9
DEFINIA DS-37	150.8	161.5	166.3	19.9	84.3	3.4
PIONEER BRAND 3183			165.7	22.2	95.2	10.0
ASGRIM RX909			165.6	24.3	80.5	8.0
MIGRAN M-0707			149.6	165.4	23.0	96.7
NORTHROP-KING PX87			150.6	164.7	21.8	81.8
ADLEPS 62Y	139.0	154.3	164.2	20.8	92.4	1.0
PREMIEER SX633	148.1	146.5	164.2	21.8	90.0	3.3
GOLDEN HARV. H2677			145.8	24.2	86.2	2.7
FUNK'S G4740			143.5	24.0	83.7	2.3
ADLEPS 61Y			143.1	21.0	80.3	4.3
FUNK'S G4406			143.0	21.4	88.6	1.1
ASGRIM RX909	134.3	154.4	162.6	20.7	84.3	6.2
VORIS SEEDS V2601			139.5	162.6	20.6	89.5
MCCUDDY MX844			152.7	162.5	21.5	91.9
RUFFE'S P374A	143.8	152.3	162.4	22.3	91.0	15.7
COKER 16	140.2	139.6	162.4	21.6	93.3	5.1
STEWART 6573			158.1	142.4	23.6	88.1
VORIS SEEDS V2532	141.0	151.0	161.2	22.2	90.5	6.9
SELECT SEED 6A	154.5	149.7	140.8	22.0	91.0	7.1

TABLE 6.—(continued)

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LONGED
	77-79	78-79	1979	1979	1979	1979
YELLOW HYBRIDS						
SO. STATES SS730	117.0	120.0	137.9	20.2	78.1	38.6
MCNAIR X194	126.5	126.1	137.5	22.0	81.9	37.2
GUTHWFTN BA	127.6	123.5	136.9	21.6	80.5	34.9
P.A.G. SX17A	138.2	143.0	136.5	21.9	82.9	27.6
DEKAIR XL72B	117.6	120.6	136.1	21.4	80.0	27.5
TROJAN TXS-114	109.0	120.2	135.9	20.5	76.2	30.2
SO. STATES SS915						
DFKAIR XL72AA	127.2	125.6	135.6	20.8	79.0	29.7
P.A.G. SX333		129.4	135.5	20.6	83.3	43.7
DENNIS DS-19						
BO-JAC 83	131.7	136.2	134.0	21.6	84.3	47.9
RING AROUND RA2502						
SELECT SEED 6400	131.4	126.7	132.9	19.8	88.6	46.8
RING AROUND RA2501						
O'S GOLD SX5500	124.2	134.8	132.6	21.4	80.0	39.3
ASGRIM RX909	121.5	120.8	131.9	20.8	81.0	47.8
GOLDEN HARV. T-E 6995	113.2	113.6	131.9	21.3	74.3	39.6
ADLEPS 62Y	130.4	116.9	131.3	21.2	80.5	34.1
TROJAN TXS-119	124.0	124.0	130.8	22.5	69.5	25.9
ASGRIM RX909						
SELECT SEED 5100	124.0	129.3	130.7	19.0	81.9	41.0
ADLEPS 62Y						
FUNK'S G4507	133.7	134.8	129.8	22.2	76.2	37.7
RUFFE'S P374A	131.9	137.3	129.7	21.8	77.1	49.3
GOLDEN HARV. T-E 6995A						
ASGRIM RX98	119.2	126.7	123.4	23.4	74.3	22.8
COKER 22	121.1	116.8	127.4	22.6	74.3	28.5
PRINCETON SX 840	124.5	131.1	127.0	23.3	81.4	21.7
PIONEER BRAND 3355						
VORIS SEEDS V2601	135.9	126.4	121.5	21.5	79.5	48.7
SELECT SEED 8400						
AD1677						
PREMIEER SX633	106.8	113.9	124.9	21.2	64.3	27.7
DEFINIA DS-37	117.0	109.9	123.4	22.1	71.4	42.3
MIGRAN M-6861						
NORTHROP-KING PX79	131.9	131.8	121.2	21.7	65.7	15.5
AGRI-CHEM HSS 1010						
TROJAN T1189						
GOLDEN HARV. H2606						
RUFFE'S P150						
GOLDEN HARV. H2677						
SUPER CROST 79023						
SUPER CROST 6800	129.3	128.9	110.0	22.9	70.0	41.7
BALDOTAGE RX24						
YELLO- AVERAGE						
	126.9	129.3	140.8	21.6	79.7	30.1
WHITE HYBRIDS						
SO. STATES SS950W	118.6	117.1	147.1	24.4	73.3	27.2
DEKAIR XL7300B						
ASGRIM RX62PH						
ZIMMERMAN Z52W	129.3	121.2	132.3	23.0	75.7	59.1
GOLDEN HARV. H2660W	102.7	112.2	129.3	24.7	66.7	30.5
FUNK'S G4747W	119.8	130.6	128.8	24.0	77.6	51.4
MCNAIR Y23W						
PRINCETON SX910W	108.0	116.4	125.9	23.0	77.4	71.1
ZIMMERMAN Z11W	125.3	126.8	120.8	21.6	76.7	70.3
AGRI-GOLD A-6450W						
COKER 6104W						
WHITE AVERAGE						
	117.3	120.7	129.3	23.6	76.0	49.7
GRAND AVERAGE						
	125.8	128.6	139.8	21.8	79.4	31.9
LSD (.05)*						
C.V.						
				24.9	2.6	10.4
				10.6	7.2	41.7

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.

TABLE 6.—ANNUAL SUMMARY, FRANKLIN, KY.

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LONGED
	77-79	78-79	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>						
AD107		173.3	22.1	81.9	18.9	
STEWART 6973	138.7	170.6	21.0	75.2	22.1	
SUPER CROST 79014		167.1	20.8	79.5	24.1	
HCCURRY 7A-50		164.5	21.5	82.9	29.8	
DH9113		163.2	21.5	81.0	27.0	
ADLEFS A6X		165.1	21.7	82.1	26.6	
COLBERT 340		162.8	21.7	90.5	25.0	
NORTHROP-KING PX95	146.0	160.7	25.5	82.9	13.3	
SELECT SEED 9300		159.7	21.9	81.4	48.3	
JACQUES JX247		159.1	21.9	79.5	37.1	
PREMIER SX636		159.0	22.3	83.3	22.5	
VORIS SEEDS V2651		158.0	21.0	89.0	19.2	
CARTILL 967		157.7	21.2	89.5	24.1	
PIONEER BRAND 3311	145.8	157.6	21.3	90.5	19.4	
P.A.G. SX373		154.5	21.3	78.4	27.1	
O'S GOLD SX5509	119.2	154.3	23.0	82.9	28.4	
MIGRO M-7077	140.9	154.0	21.4	81.0	25.3	
ACCO UC9792	123.7	121.0	153.7	22.8	86.7	15.1
MCCURRY HSX84AA		152.7	22.4	87.4	19.8	
HOBЛИT XRA41A	144.3	138.8	152.7	21.5	84.3	28.9
PIONEER BRAND 31R3	146.1	152.4	21.8	86.9	26.0	
ZIMMERMAN Z22Y	142.2	152.2	22.1	81.0	18.4	
GUTWFIN 2910		151.8	21.7	71.4	24.6	
COLBERT 345	132.8	151.1	22.8	80.0	28.6	
AGRI-GOLD A-6900		150.4	23.1	74.6	29.8	
MIGRO M-7072	137.0	133.4	150.3	21.7	81.0	21.8
NORTHROP-KING PX74	129.7	140.8	150.1	21.0	77.6	26.2
FUNK'S G6506		149.7	22.4	77.1	33.5	
PIONEER BRAND 3369A	137.1	134.3	149.2	21.0	84.8	36.1
BALDRIDGE RX77		149.0	20.8	81.0	76.0	
MIGRO M-SPX49		148.9	20.7	84.6	19.8	
ACCO UC8951	135.1	139.1	148.5	23.0	91.0	28.3
DEKALB XL2		147.2	21.9	84.8	30.4	
DFKALB XL71		146.9	20.6	83.3	15.3	
RING AROUND RA1502	124.8	121.4	146.8	21.2	82.9	29.1
COLBERT 310	144.0	140.0	146.7	20.3	88.6	26.9
FUNK'S G6740		146.5	22.2	85.2	51.4	
AGRI-CHEM. USS 2010		145.4	22.0	74.7	36.7	
PIONEER BRAND 3184	148.5	137.4	145.1	21.4	93.3	24.2
COKEF 19		144.9	20.8	80.0	44.6	
PRINCETON SX870		144.4	22.5	81.9	41.5	
ADLEFS 61X		144.3	20.9	81.0	47.0	
RUFF'S R292		144.2	19.8	84.3	11.5	
BO-JAC 923	126.9	123.6	144.0	22.0	85.7	36.4
STEWART SX77	137.3	138.1	143.7	22.3	83.8	16.0
COKEF 16	118.6	121.0	143.5	21.2	82.0	29.1
RING AROUND RA1501	121.4	123.0	143.2	20.4	81.9	30.2
ZIMMERMAN Z20Y	130.5	127.9	143.1	22.8	81.9	23.1
GUTWFIN 72	122.8	122.3	143.1	21.2	66.7	4.9
ADLEFS ATX	121.0	121.7	142.8	22.0	81.0	53.7
STEWART 6973		129.6	142.2	20.7	79.5	53.0
MCCURRY HSX84	134.7	141.9	20.7	86.7	45.3	
P.A.G. SX56AA		141.5	22.8	81.4	24.0	
VORIS SEEDS VP53P	126.7	128.8	141.1	21.8	80.0	25.0
SO STATES 88775	116.7	117.7	141.0	20.5	84.1	24.5
ZIMMERMAN Z24Y	126.3	127.3	140.4	20.3	88.6	53.6
BO-JAC 565		129.9	140.3	20.7	78.1	20.2
NORTHROP-KING PX87	134.0	140.1	144.8	20.8	79.0	23.0
JACQUES JX180		139.9	21.5	70.8	17.3	
PREMIER SX639		129.3	139.9	22.3	78.1	37.2
SELECT SEED A6	130.2	131.0	139.0	21.3	83.3	23.7
COLD TAG 3020	129.4	137.5	139.2	20.4	68.6	50.0
GOLDEN HARV. H2666	119.7	122.8	138.7	21.0	77.1	38.2
PIONEER BRAND 3382		138.5	20.3	77.6	3.6	
DH7175		137.9	22.2	80.0	39.0	

TABLE 4.—(continued)

VARIETY	YIELD	YIELD	YIELD	Avg %	Avg %	Total %
	BU/AC	BU/AC	BU/AC	MOIST	STAND	LONGED
	77-79	78-79	1979	1979	1979	1979
<b>YELLOW HYBRIDS</b>						
HOBЛIT XRA54				160.7	23.4	84.8
SELECT SEED 9300				160.8	22.2	80.0
AGRI-GOLD A-6900				160.0	22.3	82.4
P.A.G. SX368A				159.3	21.2	90.0
SUPER CROST 79023				159.0	20.2	90.5
NORTHROP-KING PX74	140.3	148.2	158.7	21.3	84.1	11.1
GOLDEN AC. T-E 6995	152.1	149.3	158.6	21.3	81.9	4.5
BALDRIDGE RX77				158.0	22.8	88.1
P.A.G. SX17A	145.8	153.3	157.5	21.7	88.6	4.1
JACQUES JX180				142.1	157.0	83.6
PREMIER SY639				145.8	21.7	92.9
GUTWFIN 72	141.8	148.6	156.4	21.7	81.4	0.6
RUFF'S R292				154.7	21.0	88.6
ASGRW RX98				153.0	154.6	22.4
GOLDEN HARV. H2666	144.1	143.0	153.9	21.8	80.0	11.9
SUPER CROST 79014				153.7	22.3	89.5
GOLDFN AC. T-E 6995A				148.4	153.7	21.5
RING AROUND RA2501				145.8	153.5	22.0
DEKALB XL728	130.7	137.8	152.4	21.3	84.8	0.5
RING AROUND RA1501	136.9	137.3	152.2	21.4	91.0	13.6
DEKALB XL42				151.7	25.1	90.0
AGRI-CHEM. USS 1010				151.7	21.2	88.2
ACCO UC9792	137.6	131.4	148.7	24.9	89.0	7.0
PIONEER BRAND 3382				148.1	20.7	88.1
BO-JAC 83	146.3	142.0	146.2	21.5	90.5	11.1
SO STATES 88775	137.7	135.6	145.6	22.0	86.2	5.3
BALDRIDGE RX24				144.5	19.7	79.5
MIGRO M-SPX49				145.8	19.8	88.1
MCNAIR X194	143.4	143.4	143.1	21.1	81.9	5.4
AD1477				142.6	21.1	88.4
ADLEFS A6X				142.6	21.2	81.9
RUFF'S R150				142.6	22.2	81.9
ADLEFS ATX	149.8	149.1	141.3	22.8	86.7	14.2
PRINCETON SX 840	137.4	131.5	140.8	23.1	83.8	1.1
PIONEER BRAND 3535				131.5	135.8	19.7
MIGRO M-HP61				135.3	21.0	81.9
TROJAN TX5-119	139.8	137.9	135.0	21.1	82.9	8.5
O'S GOLD SX5500	123.3	125.9	132.8	22.0	82.9	14.4
GOLDEN HARV. H2666				142.6	21.7	71.4
RING AROUND RA2502				136.8	131.2	20.1
TROJAN T1189				126.0	21.0	86.2
SUPER CROST 6800	130.8	139.6	121.6	21.1	73.3	7.8
AGRI-CHEM. USS 2010				116.5	20.8	84.8
<b>YELLOW AVERAGE</b>	148.5	151.5	162.3	21.9	84.2	7.5
<b>WHITE HYBRIDS</b>						
DEKALB XL7908				185.6	27.5	86.7
SO STATES SS950W	159.4	156.9	178.0	24.2	89.5	9.5
COKEF 6104W				173.4	24.0	94.3
ZIMMERMAN Z52W				154.8	159.5	24.1
GOLDEN HARV. H2660W	151.6	152.1	165.4	24.0	84.8	11.3
AGRI-GOLD A-6950W				143.0	23.4	94.3
FUNK'S G6742W				154.6	160.1	162.9
PRINCETON SX910W	144.1	143.3	140.3	24.8	93.8	25.4
MCNAIR X233W				159.2	24.9	74.3
ASGRW RX962W				158.6	23.0	81.9
ZTMMERMAN Z11W	135.7	137.5	148.0	24.5	75.7	7.6
<b>WHITE AVERAGE</b>	150.0	151.6	165.6	20.2	84.0	13.3
<b>GRAND AVERAGE</b>	148.7	151.5	162.6	22.1	88.0	8.0
LSD (.05)*				29.3	2.2	12.2
C.V.				10.7	5.8	8.2
						112.2

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.

TABLE 5.—ANNUAL SUMMARY, HARTFORD, KY.

TABLE 5.—(continued)

VARIETY	YIELD BU/AAC 77-79	YIELD BU/AAC 78-79	YIELD BU/AAC 79-80	Avg % MOIST STAND	Total Lb/Gal	Avg % TOTAL %	YIELD BU/AAC 1978	YIELD BU/AAC 1979	Avg % MOIST STAND	Total Lb/Gal	Avg % TOTAL %	YIELD BU/AAC 77-79	YIELD BU/AAC 78-79	Avg % MOIST STAND	Total Lb/Gal	Avg % TOTAL %	
YELLOW HYBRIDS																	
60-JAC 927	155.5	150.9	172.8	23.7	95.0	12.7	134.9	136.0	137.9	23.7	80.7	137.9	137.9	137.9	137.9	14.9	
PRINCETON 9X70			172.1	21.8	76.4	2.6	160.3	179.5	176.6	21.8	82.1	176.6	176.6	176.6	176.6	3.7	
ZIMMERMAN TX-114	171.1	175.9	170.7	22.9	94.7	4.6	144.6	145.0	145.0	22.0	76.4	22.0	22.0	22.0	22.0	2.9	
ASGRW RXD			168.1	21.7	81.0	0.9											3.5
PIONEER BRAND 3302			168.8	24.4	89.7	5.6											3.5
HIGRO-HARVEST			146.4	20.4	95.7	0.7											1.3
JACOBS J180			145.6	22.9	74.5	1.8											1.3
P.A.C. SX573			145.4	22.4	82.9	5.1											1.3
COKEUR 22			163.4	21.3	83.6	9.5											1.3
NORTHRUP-KING PK749			163.0	23.0	80.7	9.4											1.3
HOBBLIT XRS54			162.7	23.0	87.9	2.5											1.3
SO. STATES SS775			161.4	23.8	82.9	4.3											1.3
ADIRONDACK			161.0	23.5	78.6	9.6											1.3
AGRI-GOLD A-6900			158.3	24.0	77.5	7.6											1.3
JACOBS J240			164.5	22.2	81.4	0.9											1.3
DEKALB XL42			163.0	21.2	80.9	5.9											1.3
MIGRO H-0107			167.9	16.6	81.7	2.6											1.3
ACCO USA951			155.2	151.9	95.7	1.6											1.3
DEKALB XL77			164.7	156.4	85.7	5.6											1.3
P.A.C. SX533			146.7	156.0	81.6	7.9											1.3
ADLER'S 62X			156.7	155.7	86.6	7.9											1.3
COLBERT 105			160.7	155.6	22.7	76.4											1.3
PIONEER BRAND 3369A			161.1	157.8	21.3	77.9											1.3
WORL'S SEEDS V2512			158.8	145.0	151.3	21.0											1.3
SELECT SEEDS 5100			154.0	145.6	152.6	22.1											1.3
GUTHRIE TX-72			163.0	149.1	152.4	21.2											1.3
PRINFTON SX 840			163.0	159.0	151.0	21.2											1.3
GUTHRIE TX-6			150.5	151.6	150.6	21.0											1.3
ZIMMERMAN 222Y			151.7	150.5	151.3	21.0											1.3
MICHARD MX56AAA			156.8	150.5	150.5	21.0											1.3
STEWART 6773			154.0	150.6	152.6	21.1											1.3
MICHARD MX84			154.0	150.5	150.5	21.0											1.3
PIONEER SX636			150.0	149.6	150.2	21.2											1.3
COKEUR 9			149.5	149.5	149.5	21.0											1.3
NORTHRUP-KING PK74			150.5	150.5	150.5	21.0											1.3
CARGILL 497			151.6	150.6	22.1	73.6											1.3
ZIMMERMAN 222Y			151.7	150.5	22.7	80.7											1.3
COKER 16			150.5	150.5	22.7	81.4											1.3
PIONEER BRAND 3183			151.4	150.4	21.6	79.3											1.3
DEKALB XRS11			150.5	150.2	150.2	21.1											1.3
BO-AC 565			156.9	156.9	156.9	21.0											1.3
O'S GOLDF SXS509			146.0	146.0	146.0	21.0											1.3
PIONEER BRAND 3184			160.4	161.7	160.5	23.1											1.3
SO. STATES SS770			140.7	138.8	145.3	23.7											1.3
BO-AC 83			155.3	161.3	161.3	21.5											1.3
CUTE-TN 2910			147.7	147.7	147.7	21.5											1.3
SELFF SEED 816			145.7	145.7	145.7	21.5											1.3
ASGRW RX09			149.8	149.8	149.8	21.5											1.3
SFLFT SEED 9700			143.0	143.0	143.0	21.5											1.3
COLD TR 2020			144.9	145.2	142.6	22.5											1.3
COLDN HAVN. H2666			145.7	140.0	142.3	21.1											1.3
DH7175			146.8	146.8	146.8	21.1											1.3
RING AROUND RA1501			145.6	145.6	145.6	21.1											1.3
CUTE-TN 2910			147.7	147.7	147.7	21.1											1.3
P.A.C. SX714			155.0	149.6	149.6	21.1											1.3
AGRI-GOLD H-6950W			141.0	140.1	140.1	21.1											1.3
RING AROUND RA1501			153.9	153.9	153.9	21.1											1.3
P.A.C. SX76AA			140.5	140.5	140.5	21.1											1.3
WHITE ANFRIGE			145.7	145.7	145.7	21.1											1.3
GRAND AVERAGE			149.9	149.9	149.9	21.1											1.3
LSD (.05) *			147.4	147.4	147.4	21.1											1.3
C.V.			10.3	4.4	10.3	4.4											11.9

\* For the differences between two means to be significant at the 5% level the observed differences must exceed the LSD.