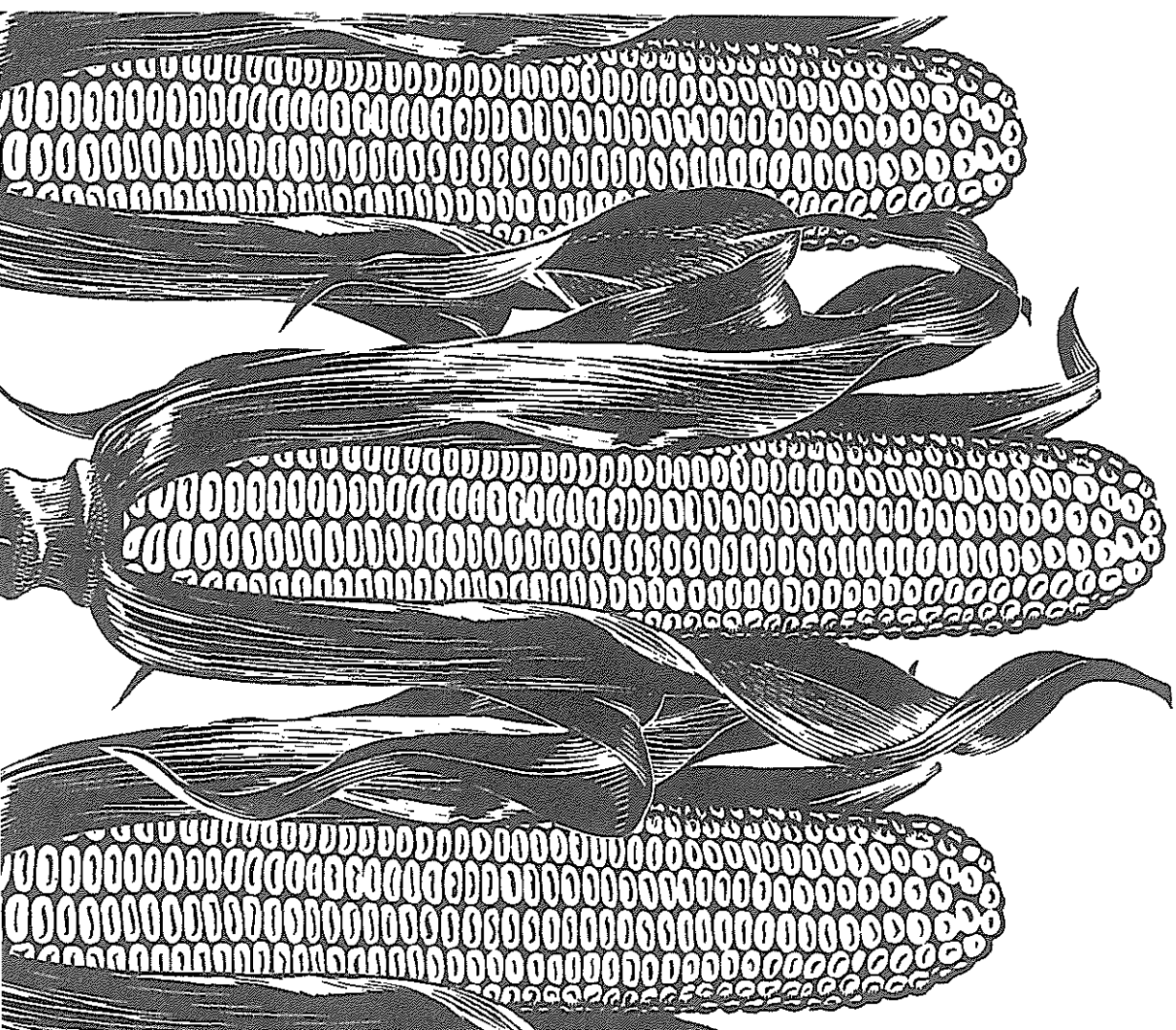


KENTUCKY HYBRID CORN PERFORMANCE TEST-1981

C. G. PONELEIT and K. O. EVANS • PROGRESS REPORT 258

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TABLE 13.—CORN VIRUS TEST, FRANKFORT, KY., 1981

LIST OF TABLES

	Page
Table 1.—Hybrids Tested in 1981	9
Table 2.—Agronomic Information Pertaining to 1981 Test Locations.....	11
Table 3.—Annual Summary, Murray, Kentucky	12
Table 4.—Annual Summary, Princeton, Kentucky	14
Table 5.—Annual Summary, Sebree, Kentucky	16
Table 6.—Annual Summary, Elkton, Kentucky	18
Table 7.—Annual Summary, Bardstown, Kentucky	20
Table 8.—Annual Summary, Lexington, Kentucky	22
Table 9.—Annual Summary, Quicksand, Kentucky	24
Table 10.—Annual Summary, All Non-Virus Locations, 1981	26
Table 11.—Two-Year Summary, All Non-Virus Locations, 1980-1981	28
Table 12.—Three-Year Summary, All Non-Virus Locations, 1979-1981	30
Table 13.—Corn Virus Test, Frankfort, Kentucky, 1981	31

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	VIRUS RATING 80-81	VIRUS RATING 1981
YELLOW HYBRIDS		
ADLER'S 70X		3.0
ADLER'S 73X	2.5	3.3
ADLER'S 755	3.0	4.0
AGRI-GOLD A-6700	4.8	7.3
AGRI-GOLD XA-812		7.3
BALDWINIDGE RX335	3.5	5.7
CARGILL 951	3.8	4.7
CK	4.7	6.5
DEKALB XL72B	3.0	4.0
DEKALB XL72B5	2.7	4.3
DENNIS 054-19	3.5	4.3
DH 7150		5.7
DH 9228	2.7	4.3
FERRY-MURSE GT-EX4045		4.3
FUNK'S G4525A	3.7	5.0
FUNK'S G4740	3.3	4.3
GOLDEN AC. T-E 6945	4.0	4.7
GOLDEN HARV. H2745	4.0	5.0
GUTHRIE MDM2885	3.5	3.7
JACQUES JX227	3.7	5.7
JACQUES JX247	6.6	7.0
MCCURDY 797B	4.2	4.7
MCCURDY 8225	2.8	3.7
NORTHRUP-KING PX79		4.7
NORTHRUP-KING PX95	4.2	5.3
O'S GOLD SX5255	4.2	5.7
O'S GOLD TX311	3.7	5.0
P.A.G. SX17A	3.6	4.3
PIONEER BRAND 3147	2.9	3.7
PIONEER BRAND 3160		3.7
PIONEER BRAND 3179	3.0	4.0
PIONEER BRAND 3328		3.7
RING AROUND RA1604		6.0
SELECT SEED MDM75	3.1	4.3
SO. STATES SS710	3.3	4.3
STEWART 6586	4.3	5.7
STEWART 7700		6.3
SUPER CROST EXPB1059		3.7
TROJAN MDM-116	3.4	4.3
USS AG-CHEM USS 2315	2.8	4.0
ZIMMERMAN Z30Y	2.5	3.7
YELLOW AVERAGE	3.6	4.8
WHITE HYBRIDS		
CK	4.2	5.0
NK/MCNAIR X233W	2.9	4.3
PRINCETON SX910W	4.2	5.0
ZIMMERMAN Z14W		5.7
ZIMMERMAN Z52W	2.9	4.3
ZIMMERMAN Z54W		5.0
WHITE AVERAGE	3.6	4.9
GRAND AVERAGE	3.6	4.8
LSD*		0.9
C.V.		14.0

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 12.—THREE-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1979-1981

	YIELD BU/AC 79-81	AVG % MOIST 79-81	AVG %TOTAL STAND 79-81	% LODGED 79-81
YELLOW HYBRIDS				
BO-JAC 923	150.3	20.8	88.2	10.3
AGRI-GOLD A-6900	148.3	21.0	85.9	9.1
SELECT SEED 9300	148.0	20.6	85.8	11.1
D'S GOLD SX5509	147.2	20.6	86.2	8.9
DH 9113	146.5	20.3	84.7	9.4
PREMIER SX636	146.5	20.8	87.2	9.2
ADLEKS 88X	146.0	20.7	85.3	8.5
MCCLOUDY 84AA	144.7	20.6	85.9	9.4
NORTHROP-KING PX95	144.5	22.1	83.2	10.4
VORTS SEEDS V2651	143.7	20.4	86.4	15.7
JACQUES JX247	142.9	20.5	83.9	10.7
SUPER CROST 7801	142.7	20.8	84.0	10.0
COLBERT 345	142.6	21.0	86.1	10.8
SELECT SEED 8400	142.5	19.4	87.1	13.0
MIGRU/NAPJ M-0707	141.8	20.4	86.6	7.6
RING AROUND RA1502	141.6	20.2	85.6	7.3
CARGILL 967	141.3	19.1	87.7	11.0
COLBERT 310	141.3	20.4	85.8	8.2
ACCU DC8951	141.3	20.6	87.0	8.2
PRINCETON SX870	140.7	20.3	81.7	10.3
PIONEER BRAND 3369A	138.3	19.5	86.3	11.6
STEWART 6973	138.1	20.4	82.2	9.2
DEKALB XL71	137.6	20.0	86.6	7.5
PIONEER BRAND 3184	137.4	20.0	89.3	6.7
P.A.G. SX373	136.6	20.9	85.0	8.6
ZIMMERMAN Z24Y	136.5	19.8	87.2	12.3
GUTWEIN 2910	136.4	20.3	79.0	11.0
SELECT SEED 5100	135.9	19.2	86.7	10.2
SO. STATES SS915	134.9	21.0	86.3	12.0
NORTHROP-KING PX87	134.6	20.9	82.8	9.3
COKER 22	134.4	20.7	84.2	11.0
RUFF'S R334A	134.3	19.8	84.2	14.5
DH 7175	133.9	19.3	85.5	10.0
TROJAN TXS-114	133.8	19.2	84.7	11.6
DENNIS DS42	133.5	19.1	79.1	6.7
STEWART SX77	133.3	20.4	83.1	6.9
P.A.G. SX333	132.6	19.2	84.3	14.3
COKER 19	130.8	19.3	83.2	10.6
FERRY-MORSE GT3020	128.7	19.4	81.9	12.5
USS AG-CHEM USS 1010	126.9	19.2	82.0	9.6
BALDRIDGE RX77	126.3	19.9	82.9	11.3
JACQUES JX180	126.1	19.3	81.3	11.4
SO. STATES SS775	125.2	19.6	87.4	8.5
GOLDEN AC. T-E 6995	125.1	19.4	82.1	9.8
YELLOW AVERAGE	138.1	20.1	84.8	10.1
WHITE HYBRIDS				
SO. STATES SS950W	139.2	22.0	85.6	14.1
DEKALB XL3908	137.7	21.0	81.0	12.8
PRINCETON SX910W	136.1	22.3	86.6	16.3
ZIMMERMAN Z52W	134.7	22.1	85.8	13.9
NK/MCNAIR X233W	133.4	21.9	79.2	10.0
ZIMMERMAN Z11W	133.0	22.3	85.2	13.7
ASGRUN RX962W	132.8	22.2	83.5	14.2
GOLDEN HARV. H2660W	129.7	22.0	82.8	13.9
WHITE AVERAGE	134.6	22.0	83.7	14.1
GRAND AVERAGE	137.5	20.4	84.6	10.8

Kentucky Hybrid Corn Performance Test 1981

C. G. Poneleit and K. O. Evans

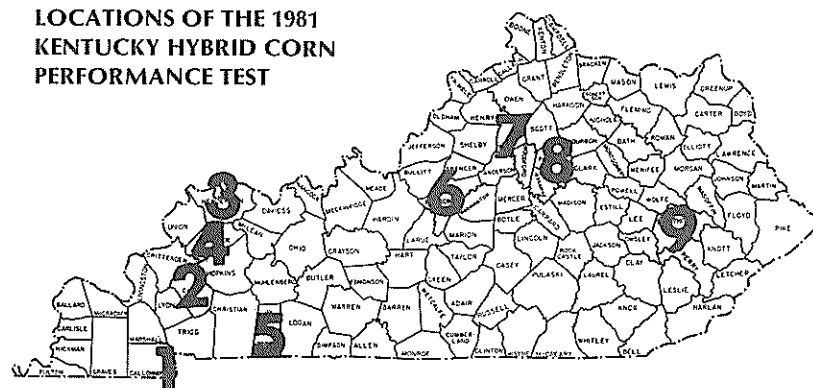
The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. Every effort has been made to conduct the test in an unbiased manner according to accepted agronomic practices.

PRESENTATION OF DATA

Complete 1981 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 1981 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 1982. 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 Bardstown was prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests. The test at Bardstown was planted in soybean stubble 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 a 7 x 7 lattice design was used at the virus locations.

TABLE 11.—(continued)

	YIELD BU/AC 80-81	AVG % MOIST 80-81	AVG % STAND 80-81	TOTAL % LOGGED 80-81
YELLOW HYBRIDS				
SELECT SEED 5100	124.7	18.5	85.8	10.3
TROJAN TXS-114	124.4	18.5	83.2	11.9
P.A.G. SX351	124.3	18.4	84.6	9.0
P.A.G. SX373	124.2	19.8	86.0	8.3
TROJAN TXS-115A	123.7	18.6	85.4	11.0
DH 7175	123.6	18.7	85.9	9.2
GUTWEN 2910	122.4	19.5	78.3	11.6
CARGILL 949	121.8	18.1	82.4	11.4
USS AG-CHEM USS 1010	121.4	18.4	84.7	9.2
JACQUES JX180	121.2	18.5	83.5	12.3
P.A.G. SX333	121.0	18.4	84.5	14.7
COKEK 19	120.6	18.5	82.7	10.1
PIONEER BRAND 3320	120.1	19.5	86.7	8.1
FIUNK'S G4507A	118.5	18.6	86.5	12.0
AULENS 30X	118.5	17.8	85.4	7.7
HALDIDGE RX77	118.1	19.0	82.9	8.9
FERRY-MORSE GT3020	117.1	18.7	81.5	10.9
SU. STATES 5575	116.1	18.8	87.5	8.7
GOLDEN AC. T-E 6995	114.6	18.9	83.4	9.5
NORTHROP-KING PXR3	114.3	18.8	82.2	9.8
RING AROUND RA1504	112.8	17.7	84.3	9.7
PRINCETON SX860	110.9	19.5	83.2	8.3
CARGILL 934	110.1	17.9	82.9	9.0
YELLOW AVERAGE	127.5	19.3	85.1	9.9
WHITE HYBRIDS				
PRINCETON SX910W	131.4	21.5	86.6	10.7
SU. STATES 55950W	129.4	21.1	86.5	14.8
MEACHAM'S MV78	129.0	21.3	85.3	11.7
ZIMMERMAN Z14W	128.3	21.1	85.1	10.4
NK/MCNAIR 4233W	128.1	21.1	82.6	12.3
ZIMMERMAN Z11W	128.1	21.7	87.1	12.2
ZIMMERMAN Z52W	127.3	21.3	86.4	12.7
AGRI-GOLD A-6955W	126.2	21.4	88.1	11.8
ASGRON RX962W	125.7	21.4	85.1	11.1
PIONEER BRAND 519W	125.0	19.7	85.5	9.1
DEKALB XL390B	123.8	20.2	80.4	11.4
GOLDEN HARV. H2660W	122.4	21.2	85.0	12.5
RING AROUND 2602W	121.4	21.5	85.6	14.1
WHITE AVERAGE	126.6	21.1	85.3	11.9
GRAND AVERAGE	127.4	19.6	85.1	10.2

TABLE 11.—TWO-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1980-1981

	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
	80-81	80-81	80-81	80-81
YELLOW HYBRIDS				
PREMIER SX636	141.4	20.0	88.1	9.9
PIONEER BRAND 3160	141.2	20.6	88.2	8.8
O'S GOLD SX5509	140.8	19.8	87.0	9.3
SELECT SEED 9300	140.1	20.1	85.8	9.8
80-JAC 923	139.7	20.1	88.1	9.8
AGRI-GOLD A-6900	139.7	20.3	87.0	8.6
HIGRO/NAPP HP87	137.7	19.8	86.3	11.9
OH 9113	136.5	19.4	83.6	9.0
RING AROUND RA1502	136.1	19.7	86.9	7.1
MCCUMBY 844A	135.5	19.8	86.7	9.3
VORIS SEEDS V2651	135.1	19.9	86.4	17.2
NORTHROP-KING PX95	134.9	20.9	83.2	12.3
ACCO UCH951	134.8	20.0	87.3	9.2
TROJAN T-1230	134.5	19.7	85.5	8.9
DENNIS DS42	133.7	18.4	83.9	7.9
ADLEMS 88X	132.9	20.1	85.5	6.7
SELECT SEED 8400	132.4	18.8	86.7	10.4
JACOBS JX287	132.3	19.7	83.9	10.7
HIGRO/NAPP H-0707	132.2	19.8	85.2	7.8
HIGRO/NAPP SPX77	131.8	19.8	86.0	10.4
RING AROUND RA1604	131.7	20.1	86.0	8.0
SUPER CROST 7801	131.4	20.3	83.8	9.7
USS AG-CHEM USS 2020	130.9	20.3	82.9	7.7
FERRY-MORSE GT4022	130.7	19.5	84.5	12.1
SUPER CROST 6101	129.9	18.8	86.7	11.3
DEKALB XL74A	129.5	19.5	84.6	8.2
COLBERT 345	129.5	20.3	87.2	10.8
ZIMMERMAN Z24Y	129.3	19.1	88.2	10.5
COLBERT 340	128.7	19.9	84.6	9.6
PRINCETON SX870	128.6	19.6	81.2	9.8
USS AG-CHEM USS 1516	128.5	19.1	84.5	21.9
DEKALB XL71	128.1	19.3	87.3	8.0
GUTWEIN 2875	128.0	20.2	83.0	9.5
STEWART SX77	127.8	19.7	83.1	6.5
CARGILL 967	127.6	18.3	86.7	10.0
RUFF'S R334A	127.3	18.4	84.7	13.0
COLBERT 315	127.0	18.9	89.5	12.8
COKER 22	126.6	19.9	84.8	10.8
STEWART 6973	126.5	19.5	82.0	9.6
SO. STATES SS915	126.4	20.5	85.5	10.5
PIONEER BRAND 3184	126.2	19.2	89.1	4.4
NORTHROP-KING PX87	126.2	19.9	82.8	10.3
PIONEER BRAND 3369A	125.5	18.4	86.0	10.9
COKER 19A	124.9	19.6	84.8	9.3

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. The LSD is calculated for an α level of 0.10.

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 plots 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. Two locations (Frankfort and Henderson) were planted with 49 hybrids to evaluate resistance to the virus complex. Most plants at the Frankfort location were found to be virus infested when observed on June 6.

A later virus rating, presented in Table 13, also showed heavy infection. Yields were collected from the Frankfort plots but detrimental effects of the virus and late season growth of johnsongrass were so severe that the yield data was judged to be meaningless. The Henderson virus test location was planted but abandoned because flooding in the area during June prevented proper maintenance of the plots.

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.

Four virus-susceptible check hybrids (two yellow and two white) were included in the virus tests. Their average performance is listed as Susceptible Checks.

NOTES ABOUT THE GROWING SEASON

MURRAY

The Murray test was planted on April 16 and harvested September 23, 24, and 25. Monthly precipitation amounts for April and subsequent months were 4.3, 6.5, 6.5, 7.5, 4.4, and 3.5 inches, respectively. Weed control was good. There was no apparent damage from insects or diseases and lodging was minimal.

PRINCETON

The Princeton test was planted on June 12 and harvested on November 10, 11 and 12. Precipitation amounts for the months of June through October were 2.4, 5.7, 2.0, 3.8, and 2.2 inches, respectively. Weed control was good. Army worms caused early leaf damage and required a control spray of Lorsban. European and Southwestern corn borers caused much of the lodging problems associated with the test.

SEBREE

The Sebree test was planted on April 15 and harvested on September 28 and 29. Precipitation amounts recorded for the months of April through September were 2.8, 8.3, 5.0, 4.9, 0.3, and 4.3 inches,

TABLE 10.—(continued)

	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
	1981	1981	1981	1981
YELLOW HYBRIDS				
STEWART SX77	134.3	21.3	79.3	5.9
ACCO UC7601	134.2	20.2	84.0	5.1
P.A.G. SX351	133.7	19.6	83.5	6.7
SELECT SEED 5100	133.7	19.4	84.1	8.5
USS AG-CHEM USS 1010	132.9	19.9	85.1	6.3
JACQUES JX180	132.8	19.5	81.8	8.4
DH 7175	131.7	19.6	85.3	8.4
FERRY-MORSE GT3020	131.4	19.5	81.5	10.3
SO. STATES SS775	131.3	20.0	86.4	6.0
MIGRO/NAPB HP470	129.5	18.5	84.6	6.3
COKEK 19	129.4	19.4	83.0	7.4
SO. STATES SS785	129.1	19.6	86.0	6.6
FUNK'S G4522	128.2	20.0	80.6	6.0
90-JAC 452	128.0	18.6	84.4	7.1
CARGILL 949	127.2	19.0	81.4	9.7
NORTHRUP-KING PXR3	126.9	20.0	79.5	8.0
PIONEER BRAND 3320	126.8	21.1	82.6	4.8
P.A.G. SX333	126.7	19.2	82.6	9.5
GOLDEN AC. T-E 5995	126.4	19.5	83.2	8.8
FUNK'S G4507A	126.0	19.6	83.4	9.5
ADLEKS 30X	125.2	18.5	82.2	6.0
DENNIS DS26	125.2	19.4	80.5	7.7
SELECT SEED 5050	124.4	18.4	77.3	5.3
CARGILL 921	123.5	17.9	86.4	9.0
SCOTT SEED L9101	120.8	19.7	78.9	8.6
PRINCETON SX860	120.4	20.8	80.3	6.1
FERRY-MORSE GT3006	119.5	18.6	81.9	5.3
RING AROUND RA1504	118.7	18.9	80.0	7.7
P.A.G. SX397	117.9	17.8	84.9	10.0
CARGILL 934	117.3	18.5	82.2	5.3
SUPER CROST 4337	115.7	18.5	78.6	5.3
STEWART 7389	113.3	18.7	77.5	5.1
TROJAN T-1100	111.9	19.2	74.9	4.9
USS AG-CHEM USS 0555A	110.5	19.1	80.0	7.9
DENNIS DS25	107.3	18.6	75.4	5.5
PREMIER SX632	106.1	18.4	78.3	7.5
OH 8177	103.3	21.1	71.0	11.6
FERRY-MORSE GT3008	100.6	19.1	77.4	12.6
JACQUES JX179	99.9	18.8	80.3	9.7
YELLOW AVERAGE	135.6	20.4	83.1	7.6
WHITE HYBRIDS				
ZIMMERMAN Z52W	153.1	22.9	86.8	8.1
PRINCETON SX910W	150.7	22.9	89.1	10.2
NK/MCNAIR X233W	147.9	22.5	86.5	9.1
ZIMMERMAN Z11W	147.2	23.3	86.8	9.8
MEACHAM'S MVT8	147.0	23.1	82.1	8.9
SO. STATES SS950W	146.8	22.8	85.0	9.5
FUNK'S G4747W-1	144.6	22.9	88.9	12.1
RING AROUND RA3605W	143.3	22.5	86.0	9.7
ASGRUB RX962W	142.7	22.7	85.4	6.5
AGRI-GOLD A-6955W	142.5	23.0	87.3	10.4
FUNK'S G4787W	140.7	23.6	85.3	5.8
RING AROUND 2602W	140.4	23.4	85.3	12.4
PIONEER BRAND 519W	140.3	21.7	82.9	8.1
GOLDEN HARV. H2660W	139.1	23.0	85.0	8.8
DEKALB XL390B	138.6	21.7	80.7	7.6
ZIMMERMAN Z14W	135.4	22.6	79.8	5.6
ZIMMERMAN Z54W	116.2	23.1	82.3	5.3
WHITE AVERAGE	142.1	22.8	85.0	8.7
GRAND AVERAGE	136.7	20.7	83.4	7.7

TABLE 10.—ANNUAL SUMMARY, ALL NON-VIRUS LOCATIONS, 1981

	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
	1981	1981	1981	1981
YELLOW HYBRIDS				
NORTHROP-KING PX95	158.5	23.0	82.6	7.1
PIONEER BRAND 3160	157.7	22.7	88.5	7.3
PREMIER SX636	157.2	21.1	87.6	7.9
GOLDEN AC. T-E 6998	154.2	21.7	85.2	7.0
SELECT SEED 9300	153.6	21.7	87.7	7.6
SUPER CROST 7801	151.8	21.8	87.2	6.3
COLBERT 345	151.2	22.0	85.7	8.6
GOLDEN HARV. H2775A	151.1	22.4	88.9	10.0
SELECT SEED 8900	150.6	19.9	85.5	4.6
VORIS SEEDS V2651	150.5	21.5	83.6	10.2
RING AROUND RA1502	150.5	20.8	84.4	6.4
MCCURDY 8150	150.5	22.6	87.0	4.0
HO-JAC 923	150.3	21.4	85.9	7.2
O'S GOLD SX5509	150.2	21.4	84.2	4.7
ACCO DC8951	149.7	21.0	86.0	5.6
DM 9115	148.9	20.9	83.6	9.2
AGRI-GOLD A-6900	148.6	21.1	86.0	7.7
HIGHU/NAPB SPX77	148.3	21.7	89.1	4.3
RUFF'S R339A	147.4	19.7	85.0	10.1
SO. STATES SS915	147.3	22.1	87.3	11.2
FUNK'S G4733	146.8	22.2	88.2	7.1
SELECT SEED 8400	146.2	20.1	87.0	7.0
GOLDEN HARV. H2680	145.9	21.3	83.8	5.1
BALDIDGE RX77	145.8	20.6	80.6	7.7
COLBERT 340	145.7	21.1	83.4	4.2
COKEK 21	145.5	20.7	82.9	7.1
HIGHU/NAPB H-0707	145.4	21.2	85.4	5.6
RING AROUND RA1604	144.6	21.3	84.8	7.0
ZIMMERMAN Z24Y	144.1	20.5	87.3	5.0
DEKALB XL71	143.9	20.5	86.7	7.0
VORIS SEEDS V2641	143.7	21.4	82.0	8.7
HO-JAC 562	143.7	20.5	82.9	9.7
MCCURDY 844A	142.5	21.2	84.2	5.8
GUTHEIN 2875	142.4	21.9	84.0	5.5
ADLENS 88X	142.2	21.3	83.5	5.3
PIONEER BRAND 3164	141.9	20.2	89.6	4.6
HIGHU/NAPB HP87	141.8	21.5	82.9	7.0
JACQUES JX247	141.1	21.0	81.9	5.7
SCOTT SEED LR880	141.0	21.1	82.4	9.4
SUPER CROST 6101	141.0	20.0	84.8	12.0
TROJAN TXS-114	140.7	19.4	82.2	7.2
USS AG-CHEM USS 2020	139.7	22.1	81.8	5.8
DEKALB XL74A	139.6	20.7	84.8	9.1
P.A.G. SX373	139.4	21.4	83.3	10.2
GOLDEN HARV. H2686	139.2	22.7	76.2	7.4
COLBERT 315	139.1	20.4	87.7	9.1
DENNIS DS42	138.9	19.4	81.2	7.1
DEKALB XL728B	138.8	20.9	87.7	8.0
NORTHROP-KING PX87	138.7	21.0	81.6	12.0
TROJAN T-1230	138.2	21.1	82.0	5.9
PIONEER BRAND 3369A	138.0	19.3	85.8	10.0
PREMIER SX639A	137.9	20.8	83.5	5.0
COKEK 19A	137.8	20.3	84.2	7.4
AGRI-GOLD XA-812	137.6	20.7	83.5	4.3
CARGILL 957	137.5	19.4	86.4	7.1
STEWART 6973	137.5	20.6	80.0	8.0
FERRY-MORSE GT4022	137.4	20.9	81.7	10.2
O'S GOLD SX5291	136.8	21.5	84.9	7.3
USS AG-CHEM USS 1516	136.8	20.2	81.1	11.4
TROJAN TXS-115A	136.5	19.4	84.5	10.9
PRINCETON SX870	135.4	20.9	76.4	7.9
GUTHEIN 2910	135.3	20.3	77.8	10.7
ADLENS 60X	135.3	20.3	84.0	8.8
STEWART 7384	134.7	19.8	76.9	5.4
COKEK 22	134.5	21.5	84.2	6.9

respectively. Excessive rainfall during May caused some stunting. Additional nitrogen was applied by air during June. Weed control was only fair. Disease and insect problems were minimal.

HENDERSON

The Henderson test was planted on May 7. During early June the plot area was inundated by flood water of the Ohio and Green Rivers. Chemicals were apparently leached by excessive rainfall and flooding. The plot was overgrown with various weeds and was abandoned because of the weed problems.

ELKTON

The Elkton test was planted on April 7 and harvested September 21 and 22. Precipitation amounts recorded from April through September were 1.5, 5.6, 5.3, 4.8, 4.6, and 2.1 inches, respectively. Weed control was good. Disease and insect problems were minimal.

BARDSTOWN

The Bardstown test was planted on April 8 and harvested on September 30 and October 1 and 2. This test was planted no-till in soybean stubble. Precipitation amounts recorded for the months of April through September were 3.7, 8.7, 3.0, 6.8, 2.2, and 2.4 inches, respectively. Weed control was fair although climbing milkweed and morning-glories were not well controlled. These vines caused much of the lodging associated with the test. There were no apparent disease or insect problems.

LEXINGTON

The Lexington test was planted on April 27 and harvested on October 5 and 6. Monthly precipitation amounts recorded for April through September were 0.8, 4.7, 2.4, 5.4, 2.2, and 1.4 inches, respectively. Weed problems were minimal although climbing milkweed infested some field areas. The test was cultivated once to control some of the vines. Disease and insect problems were minimal.

QUICKSAND

The Quicksand test was planted on May 4 and harvested on October 7, 8, and 12. Precipitation amounts recorded for May through October were 5.5, 4.8, 5.2, 2.2, 1.7, and 0.7 inches, respectively. Weed control was fair. Some stand and lodging problems were caused by vine and johnsongrass competition. Maize Dwarf Mosaic Virus was observed on johnsongrass and corn in areas where the grass was present. Leaf diseases were present but did not appear to have major effects. Insects were not a problem.

FRANKFORT

The Frankfort test was planted on May 22 and harvested on October 29. Precipitation was not recorded at this test location. Weed control was poor. The seedbed was prepared and the herbicides were incorporated on May 1, but excessive rainfall delayed planting until May 22. The test area was cultivated twice and hoed once during the early part of growing season. Johnsongrass was the major weed problem. Detrimental effects of the virus diseases and johnsongrass competition caused the yield data to be meaningless. Hybrid yields ranged from 0.9 to 44.0 bu/a with a coefficient of variation of 49.2%. Only virus ratings are presented in Table 13.

TABLE 9.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % XTOTAL LODGED 1981	
YELLOW HYBRIDS							
SO. STATES S5785			128.9	21.0	88.6	6.5	
USS AG-CHEM USS 1516		106.9	128.7	21.2	74.8	8.6	
GUTWEIN 2910	151.3	111.6	128.6	21.8	75.7	22.1	
STEWART 6973	121.1	112.4	127.3	20.7	74.8	8.5	
USS AG-CHEM USS 2020		123.6	126.0	22.1	75.7	10.1	
FERRY-MORSE GT4022		124.1	125.2	23.1	80.0	13.3	
SCOTT SEED LR101			125.1	19.4	78.6	11.4	
RING ARDUND RA1504		108.3	123.7	19.7	77.6	10.4	
PRINCETON SX870	122.7	112.5	122.7	21.4	76.2	6.2	
NORTHROP-KING PX87	117.1	108.6	121.8	21.8	69.5	23.3	
COKE 22	123.4	117.3	121.1	22.1	82.4	2.3	
COKE 21			121.0	22.0	73.3	8.6	
STEWART SX77	110.5	103.6	120.9	21.8	77.6	7.7	
SELECT SEED 5050			120.5	18.6	80.0	6.0	
DENNIS DS26			117.7	20.0	86.2	4.5	
SUPER CROST 6101		108.2	117.4	20.9	80.5	18.1	
SCOTT SEED LR880			116.8	22.2	89.5	8.7	
OH 8177			116.4	22.2	75.2	7.1	
STEWART 7389			116.4	19.3	77.1	7.2	
CULBERT 340	132.5	113.7	115.6	21.9	73.3	22.5	
BO-JAC 452			115.4	19.7	75.2	15.0	
P.A.G. SX533	125.4	105.3	115.1	20.6	72.4	12.0	
JACQUES JX247	125.3	108.2	115.0	21.5	79.0	5.7	
TROJAN T-1100			113.6	19.2	69.0	1.3	
USS AG-CHEM USS 0555A			113.6	20.8	77.1	10.3	
FERRY-MORSE GT3006			113.4	19.4	83.8	5.7	
P.A.G. SX351		107.3	112.6	19.3	80.5	12.8	
PRINCETON SX860			91.5	110.8	22.0	79.5	2.4
CARGILL 934		103.0	109.4	19.1	76.2	8.8	
FUNK'S 64522			109.0	20.5	74.3	7.2	
P.A.G. SX597			106.3	17.4	88.6	9.1	
CARGILL 921			104.5	17.8	91.0	2.1	
TROJAN T-1230		104.7	103.6	22.2	77.1	14.2	
PREMIER SX632			103.3	19.7	74.3	8.6	
SUPER CROST 4337			100.6	19.1	77.1	1.8	
JACQUES JX179			100.1	20.5	83.8	4.1	
ADLEYS 30X		92.4	98.0	19.1	70.5	14.6	
DENNIS DS25			89.7	20.1	71.9	7.4	
FERRY-MORSE GT3008			88.5	20.3	56.7	34.6	
YELLOW AVERAGE	131.5	120.8	135.0	21.3	82.4	7.9	
WHITE HYBRIDS							
PRINCETON SX910W	151.1	145.2	181.3	24.9	95.7	5.0	
ZIMMERMAN Z11W	148.3	141.3	169.8	25.2	91.4	3.1	
FUNK'S 64787W			167.2	25.5	89.0	5.2	
RING AROUND 2602W		135.6	165.2	26.0	91.0	10.7	
ZIMMERMAN Z52W	137.9	136.0	163.3	24.8	88.1	5.9	
MEACHAM'S 4V78		137.8	162.9	25.0	88.5	7.7	
NK/MCNAIR X233N	147.6	136.0	161.7	24.9	84.8	4.5	
RING AROUND RA3605W			157.8	23.7	92.4	8.1	
GOLDEN HARV. H2660W	138.0	132.1	157.6	24.2	91.0	3.3	
SO. STATES S5950W	139.6	128.9	157.1	24.5	80.0	2.3	
ASGRON RX962W	134.5	131.8	155.4	25.3	85.7	9.7	
AGRI-GOLD A-6955W		131.6	154.0	23.6	83.8	12.7	
FUNK'S 64747W-1			146.6	23.9	88.1	5.9	
DEKALB XL390B	139.9	118.8	144.0	23.4	86.2	5.6	
PIONEER BRAND 519W		124.1	142.4	24.6	76.2	3.9	
ZIMMERMAN Z54W			134.4	24.0	89.0	4.3	
ZIMMERMAN Z14W		124.4	126.0	24.2	73.3	3.9	
WHITE AVERAGE	142.1	132.6	155.7	24.6	86.2	6.0	
GRAND AVERAGE	133.1	122.0	137.9	21.8	82.9	7.6	
LSD*			32.8	1.7	12.5	11.0	
C.V.			17.6	5.9	11.2	107.5	

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 9.—ANNUAL SUMMARY, QUICKSAND, KY.

HYBRID	YIELD		YIELD		AVG X AVG X TOTAL	
	BU/AC	BU/AC	BU/AC	BU/AC	MOIST STAND	LOADED
	79-81	80-81	1981	1981	1981	1981
YELLOW HYBRIDS						
RINGS ARROUND RA1502	142.6	140.6	171.8	21.6	84.3	10.7
JACQUES JX180	139.9	139.9	169.8	19.8	87.1	4.9
MIGRU/MAPB SPX77	131.3	135.3	169.3	22.8	93.7	1.0
FUNK'S 64733	139.1	140.1	165.6	23.8	92.9	5.4
PREMIER SX636	132.2	127.2	165.1	20.7	86.2	0.5
PIONEER BRAND 3160	129.7	129.7	162.1	22.2	89.5	9.7
VORIS SEEDS V2851	124.2	129.7	161.3	20.2	81.4	4.2
TRJAM TKS-1154	128.4	128.4	159.9	23.7	89.0	4.2
SO. STATES SS915	138.7	128.6	159.7	21.6	93.8	4.7
PIONEER BRAND 3184	142.9	134.4	159.3	20.9	86.7	6.2
DH 7175	142.9	134.4	159.3	20.9	86.7	6.2
GOLDEN AC. T-E 6998	141.0	131.8	156.9	22.9	90.5	1.8
SELECT SEED 9300	144.9	127.0	158.8	21.0	83.5	6.7
ADLER'S 84X	144.9	127.0	158.8	21.0	83.5	6.7
BO-JAC 582	139.5	138.8	156.6	24.5	88.1	3.7
MCCURDY 8150	139.5	138.8	156.6	24.5	88.1	3.7
SELECT SEED 8990	140.7	133.9	155.2	21.0	86.2	7.4
COLUMBI 345	132.7	129.0	154.2	21.7	85.7	3.1
DEKALB XL72B3	137.3	128.4	151.2	24.4	81.4	12.3
U'S BOLD SX5509	128.4	128.4	150.5	21.6	86.2	6.4
HARTHUP-KING PX95	128.4	128.4	150.5	21.6	86.2	6.4
RING ARROUND RA1904	128.4	128.4	150.5	21.6	86.2	6.4
COLUMBI 315	139.1	131.2	149.9	21.6	86.7	4.9
DH 9113	140.1	131.2	149.9	22.9	89.5	4.9
SUPER CROSS 7801	139.0	128.4	149.3	20.0	93.8	4.1
CARGILL 967	135.7	128.4	147.8	21.9	90.0	2.7
DEKALB XL71	133.6	125.8	147.8	23.6	89.5	4.3
GOLDEN HARV. H2775A	127.9	127.9	147.8	21.1	80.5	9.4
ACCO UC8951	146.6	134.3	147.8	21.4	90.8	3.3
PIONEER BRAND 3320	133.1	119.3	146.6	22.5	83.8	3.5
BO-JAC 923	129.0	129.0	145.2	23.1	84.3	6.2
MIGRU/MAPB M-0707	125.9	125.9	144.7	20.3	84.3	4.5
VORIS SEEDS V2841	133.9	125.9	144.7	20.3	84.3	4.5
DEKALB XL74A	140.1	124.9	144.1	21.1	88.1	4.0
COKER 19	128.0	128.0	143.4	21.7	83.9	7.5
PINEBARK BRAND 3369A	128.0	128.0	143.4	21.7	83.9	7.5
GOLDEN HARV. H2660	128.0	128.0	143.4	21.7	83.9	7.5
USS AG-CHEK USS 1010	148.5	148.5	142.9	22.1	85.2	5.1
AGRI-GOLD A-6900	129.3	112.0	142.0	20.2	81.0	1.8
FERRY-MORSE G13020	117.1	117.1	141.6	22.2	84.8	6.0
PREMIER SX839A	125.4	125.4	140.3	19.7	90.5	1.0
COKER 19A	113.1	113.1	140.3	19.7	83.3	5.3
CARGILL 949	132.5	132.5	139.7	20.2	85.2	7.3
ZIMMERMAN Z24Y	132.5	132.5	139.7	20.2	85.2	7.3
SELECT SEED 5100	118.6	109.0	138.5	20.5	77.1	5.8
BALDRIDGE RX77	129.3	129.3	137.8	21.0	87.6	2.1
ACCO UC7601	129.3	129.3	137.8	21.0	87.6	2.1
AGRI-GOLD XA-812	119.4	119.4	136.6	20.8	84.5	11.0
MIGRU/MAPB H887	115.3	115.3	135.9	23.9	71.9	16.9
SELECT SEED 8400	111.5	111.5	135.5	21.0	88.6	21.5
HARTHUP-KING PX83	111.5	111.5	135.5	21.0	88.6	21.5
STEMART 7384	111.5	111.5	135.5	21.0	88.6	21.5
GOLDEN HARV. H2686	111.5	111.5	135.5	21.0	88.6	21.5
RUFF'S R334A	104.6	104.6	133.9	19.3	88.1	3.7
ADLER'S 40X	107.9	107.9	132.8	20.9	88.1	3.9
MIGRU/MAPB HP470	125.8	125.8	131.6	21.0	74.3	5.8
FUNK'S 69507A	124.1	124.1	131.6	21.0	74.3	5.8
SO. STATES SS175	119.1	119.1	130.9	22.9	88.1	19.2
O'S GOLD SX5291	118.0	118.0	130.9	22.9	88.1	19.2
DENNIS DS42	126.5	126.5	130.9	22.9	88.1	19.2
TRJAM TKS-114	115.6	115.6	130.5	21.6	87.6	12.9
GUTWEIN 2875						
P.A.G. SX373						

TABLE 1.—(continued)

Hybrid	Test*	Color	Cross**	Source	
					D & H
Ferry Morse	GT3006 GT3008 GT3020 GT4022 GT-EX4045	A A A A B	Yellow Yellow Yellow Yellow Yellow	2X 2X 2X 2X 3X	Ferry Morse Seeds P. O. Box 24 Geneseo, IL 61254
Funk's	G4507A G4522 G4525A G4733 G4740 G4747W-1 G4787W	A A B A B A A	Yellow Yellow Yellow Yellow Yellow White White	2X(Mod) 2X 2X(Mod) 2X(Mod) 2X(Mod) SpX 2X(Mod)	Funk's Seed International 1300 Washington Street Bloomington, IL 61701
Golden Acres	T-E 6945 T-E 6995 T-E 6998	B A A	Yellow Yellow Yellow	2X(Mod) 2X 2X	Taylor-Evans Seed Co. P. O. Box 68 Tulsa, TX 79088
Golden Harvest	H2660W H2680 H2686 H2745 H2775A	A A A B A	White Yellow Yellow Yellow Yellow	2X 2X 2X 3X 2X(Mod)	Columbians Seed Co. Eldred, IL 62027
Gutwein	2875 2910 MDN2885	A A B	Yellow Yellow Yellow	2X 2X 2X	Fred Gutwein & Sons, Inc. R. R. #1, Box 40 Francesville, IN 47946
Jacques	JX179 JX180 JX227 JX247	A A B AB	Yellow Yellow Yellow Yellow	2X 2X 2X 2X	Jacques Seed Co. Prescott, WI 54021
McCurdy	844A 7978 8150 8225	A B A B	Yellow Yellow Yellow Yellow	2X 2X 2X 2X	McCurdy Seed Co. Framont, IA 52561
Meacham's	MV78	A	White	2X	Meacham's Hybrids Route 3, Box 239 Morganfield, KY 42437
NAPB/Migro	HP87 HP470 SPX77 M-0707	A A A A	Yellow Yellow Yellow Yellow	2X 2X 2X 2X	NAPB/Migro 5201 Johnson Drive P. O. Box 2955 Mission, KS 66201

TABLE 1.—HYBRIDS TESTED IN 1981

Hybrid	Test*	Color	Cross**	Source	
					A.C.C.O.
Adler's	30X 60X 70X 73X 88X 753	A A B B A B	Yellow Yellow Yellow Yellow Yellow Yellow	2X 2X 2X 2X 2X 2X	Adler's Seed Inc. Route #1 Sharpsville, IN 46068
AgriGold	A-6700 A-6900 A-6955W XA-812	B A A AB	Yellow Yellow White Yellow	2X 2X 2X 2X	Akin Seed Co. Route #1 St. Francesville, IL 62460
Asgrow	RX962W	A	White	2X	Asgrow Seed Co. Kalamazoo, MI 49001
Baldrige	RX77 RX335	A B	Yellow Yellow	3X(Mod) 3X	Baldrige Seed Co. P. O. Box 82 Cherry Fork, OH 45618
Bo-Jac	452 562 923	A A A	Yellow Yellow Yellow	2X 2X 2X	Bo-Jac Hybrid Corn Co. R. R. #2 Mount Pulaski, IL 62548
Cargill	921 934 949 951 967	A A A B A	Yellow Yellow Yellow Yellow Yellow	2X 2X 2X 2X 2X	Cargill Seeds P. O. Box 9480 Dept. 16 Minneapolis, MN 55440
Coker	19 19A 21 22	A A A A	Yellow Yellow Yellow Yellow	2X 2X(Mod) 2X 3X	Coker's Pedigreed Seed Co. P. O. Box 340 Hartsville, SC 29550
Colbert	315 340 345	A A A	Yellow Yellow Yellow	2X 2X 2X	Colbert Farms R. R. #2 Washington, IN 47501
DeKalb	XL71 XL72B XL72BB XL74A XL390B	A B AB A A	Yellow Yellow Yellow Yellow White	2X 2X 2X 2X(Mod) 3X	DeKalb Ag. Research 1536 Dunwoody, Village Pk. Suite 240 Atlanta, GA 30338
Dennis	DS25 DS26 DS42 DSN-19	A A A B	Yellow Yellow Yellow Yellow	2X 2X 2X 2X	Dennis Hybrid Co. P. O. Box 487 Windfall, IN 46076

TABLE 8.—(continued)

YIELD HYBRIDS	YIELD		YIELD		YIELD		AVG % AVG		TOTAL X		
	80/AC	80/AC	80/AC	80-81	80/AC	80-81	1981	1981	MOIST	STAND	LOGGED
	79-81	80-81	80-81	80-81	1981	1981	1981	1981			1981
80-JAC 452					131.5		19.0	84.3	2.9		
PINE AROUND RA1502	147.9	138.1			131.1		21.4	82.4	1.7		
PIONEER BRAND 3369A	140.9	121.0			130.9		20.7	87.6	4.3		
JACQUES JX180	122.2	115.6			128.9		22.0	79.0	3.6		
STEWART SX77	134.9	132.2			128.7		21.9	77.1	0.0		
DENNIS DS26					128.6		22.1	79.0	3.4		
80-JAC 923	153.4	143.8			127.7		21.8	81.0	5.7		
USS AG-CHEM USS 0555A					127.5		19.8	83.8	4.2		
GOLDEN AC. 1-E 6998					127.3		22.3	81.0	4.6		
COKEK 19	124.9	120.6			127.2		20.7	84.3	1.7		
STEWART 6973	145.6	135.6			127.2		21.7	75.2	5.8		
FURK'S 64522					127.1		20.0	85.2	4.4		
COKEK 19A					127.0		22.2	79.0	4.5		
TROJAN TXS-114	135.8	127.0			126.9		21.4	79.0	2.4		
ADLER'S 88X	150.2	133.2			126.5		22.9	85.2	4.0		
FERRY-MORSE 5T3006					126.3		18.9	82.9	1.2		
P.A.G. SX397					124.8		18.8	81.9	6.5		
COKEK 22	142.2	132.0			122.0		18.2	81.2	16.0		
NORTHUP-KING PX83					121.1		23.7	85.2	3.3		
JACQUES JX247	150.5	136.8			120.5		19.6	80.5	12.2		
DENNIS DS25					120.5		21.5	86.2	2.7		
CARGILL 934					120.5		18.7	80.5	3.0		
STEWART 7489					119.3		20.0	77.6	0.7		
SO. STATES S5775	131.3	120.8			118.9		20.0	82.4	2.4		
CARGILL 944					116.4		21.7	80.5	5.1		
SELECT SEED 5050					115.5		19.1	77.1	0.0		
GUTWEN 2910	142.4	130.6			113.0		21.2	76.2	5.0		
MIGRO/MAP9 HP470					112.6		18.5	80.5	3.0		
SCOTT SEED LR101					111.5		21.5	75.7	6.2		
SUPER CROST 4337					108.7		19.6	75.7	4.3		
P.A.G. SX333	123.3	113.2			108.5		20.3	82.9	11.8		
PIONEER BRAND 3320					106.5		21.0	81.9	3.6		
PRINCETON SX860					105.5		21.3	74.7	5.7		
TROJAN 1-11000					104.1		18.6	77.1	1.8		
FERRY-MORSE 6T5008					103.2		20.5	76.7	4.9		
OH 8177 SX632					100.8		21.4	76.7	1.2		
JACQUES JX179					96.8		18.1	78.6	9.7		
JACQUES JX179					93.2		19.7	77.6	15.9		
YELLOW AVERAGE	143.0	132.6			133.5		21.2	83.3	4.0		

TABLE 1.—(continued)

YIELD HYBRIDS	YIELD		YIELD		YIELD		AVG % AVG		TOTAL X		
	80/AC	80/AC	80/AC	80-81	80/AC	80-81	1981	1981	MOIST	STAND	LOGGED
	79-81	80-81	80-81	80-81	1981	1981	1981	1981			1981
80-JAC 452					131.5		19.0	84.3	2.9		
PINE AROUND RA1502	147.9	138.1			131.1		21.4	82.4	1.7		
PIONEER BRAND 3369A	140.9	121.0			130.9		20.7	87.6	4.3		
JACQUES JX180	122.2	115.6			128.9		22.0	79.0	3.6		
STEWART SX77	134.9	132.2			128.7		21.9	77.1	0.0		
DENNIS DS26					128.6		22.1	79.0	3.4		
80-JAC 923	153.4	143.8			127.7		21.8	81.0	5.7		
USS AG-CHEM USS 0555A					127.5		19.8	83.8	4.2		
GOLDEN AC. 1-E 6998					127.3		22.3	81.0	4.6		
COKEK 19	124.9	120.6			127.2		20.7	84.3	1.7		
STEWART 6973	145.6	135.6			127.2		21.7	75.2	5.8		
FURK'S 64522					127.1		20.0	85.2	4.4		
COKEK 19A					127.0		22.2	79.0	4.5		
TROJAN TXS-114	135.8	127.0			126.9		21.4	79.0	2.4		
ADLER'S 88X	150.2	133.2			126.5		22.9	85.2	4.0		
FERRY-MORSE 5T3006					126.3		18.9	82.9	1.2		
P.A.G. SX397					124.8		18.8	81.9	6.5		
COKEK 22	142.2	132.0			122.0		18.2	81.2	16.0		
NORTHUP-KING PX83					121.1		23.7	85.2	3.3		
JACQUES JX247	150.5	136.8			120.5		19.6	80.5	12.2		
DENNIS DS25					120.5		21.5	86.2	2.7		
CARGILL 934					120.5		18.7	80.5	3.0		
STEWART 7489					119.3		20.0	77.6	0.7		
SO. STATES S5775	131.3	120.8			118.9		20.0	82.4	2.4		
CARGILL 944					116.4		21.7	80.5	5.1		
SELECT SEED 5050					115.5		19.1	77.1	0.0		
GUTWEN 2910	142.4	130.6			113.0		21.2	76.2	5.0		
MIGRO/MAP9 HP470					112.6		18.5	80.5	3.0		
SCOTT SEED LR101					111.5		21.5	75.7	6.2		
SUPER CROST 4337					108.7		19.6	75.7	4.3		
P.A.G. SX333	123.3	113.2			108.5		20.3	82.9	11.8		
PIONEER BRAND 3320					106.5		21.0	81.9	3.6		
PRINCETON SX860					105.5		21.3	74.7	5.7		
TROJAN 1-11000					104.1		18.6	77.1	1.8		
FERRY-MORSE 6T5008					103.2		20.5	76.7	4.9		
OH 8177 SX632					100.8		21.4	76.7	1.2		
JACQUES JX179					96.8		18.1	78.6	9.7		
JACQUES JX179					93.2		19.7	77.6	15.9		
YELLOW AVERAGE	143.0	132.6			133.5		21.2	83.3	4.0		
WHITE HYBRIDS											
ZIMMERMAN 752M	133.1	136.3			147.8		24.2	88.1	3.7		
MK/MCAIR SX33M	137.6	137.8			142.8		23.5	88.6	7.2		
PRINCETON SX910M	129.1	130.2			142.1		25.2	89.5	4.2		
ZIMMERMAN Z11H	130.6	127.2			139.6		24.5	90.5	4.1		
SO. STATES S8950W	130.2	131.4			137.3		25.1	81.6	3.1		
PIONEER BRAND 519M					134.6		21.7	85.7	2.8		
GOLDEN HARV. H2660M					133.4		24.9	84.8	3.9		
FURK'S 64747M-1	125.8	123.0			132.4		24.6	89.0	4.5		
AGRI-GOLD A-6955W					131.4		24.8	91.9	3.0		
MEACHAM'S M78					126.2		24.7	81.0	3.0		
ZIMMERMAN Z14M					136.9		23.7	90.0	3.8		
PINE AROUND RA3605M					128.1		23.9	80.5	5.2		
ASSRUM RX962W					125.9		24.1	82.4	5.0		
DEKALB XL398	133.4	130.5			125.6		24.1	82.4	4.7		
PINE AROUND 2602W	147.7	132.6			122.1		21.8	82.4	4.7		
FURK'S 64787M					120.0		25.4	91.4	5.8		
ZIMMERMAN 754W					107.7		20.2	81.7	1.5		
ZIMMERMAN 754W					88.3		24.2	85.7	3.9		
WHITE AVERAGE	134.2	129.0			129.2		24.2	87.3	4.1		
GRAND AVERAGE	141.6	132.0			132.9		21.6	83.9	4.0		
LSD*					21.2		1.8	7.3	5.6		
C.V.					11.8		6.1	6.5	103.1		

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 8.—ANNUAL SUMMARY, LEXINGTON, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % XTOTAL LODGED 1981
YELLOW HYBRIDS						
MIGRU/NAPB SPX77		146.9	172.3	21.7	89.0	1.6
VORIS SEEDS V2651	159.7	158.0	168.9	22.1	85.7	9.9
DENNIS DS42	147.1	147.6	158.3	19.4	80.5	0.6
COLBERT 340	149.8	143.8	157.4	22.6	90.5	2.7
FUNK'S G4733			156.5	22.0	88.6	2.6
DEKALB XL71	139.4	131.2	152.7	20.8	84.3	3.4
MCCURDY 84AA	160.9	153.0	151.1	21.7	83.3	4.0
GOLDEN AC. T-E 6995	130.7	122.9	149.2	21.2	80.0	6.2
GOLDEN HARV. H2775A			147.9	23.9	87.6	8.6
SO. STATES SS915	139.4	123.1	147.7	23.2	88.1	2.7
ADLERS 60X			147.4	20.7	86.2	1.7
DEKALB XL74A		144.0	146.2	20.3	84.8	9.0
AGRI-GOLD A-6900	159.1	142.4	146.2	21.1	83.8	3.9
RING AROUND RA1604		140.0	146.2	21.4	87.1	2.1
MCCURDY 8150			146.0	23.0	86.7	1.1
SELECT SEED 8900			145.9	21.0	82.9	1.8
CARGILL 967	151.9	140.6	145.9	20.6	90.5	2.1
DM 9113	159.6	154.3	145.6	21.4	81.4	4.3
O'S GOLD SX5509	154.9		144.8	22.3	81.0	4.6
GUTWAIN 2875		136.4	144.6	24.0	86.7	0.5
SUPER CROST 6101		126.8	144.1	20.3	81.4	2.9
TROJAN T-1230		146.8	149.0	21.3	80.0	2.4
COLBERT 345	142.2	128.2	143.4	24.9	88.1	2.9
SELECT SEED 9300	160.7	151.5	143.3	21.4	84.3	5.5
NORTHROP-KING PX95	147.3	151.1	143.2	24.0	78.6	3.6
PIONEER BRAND 3160		148.1	142.8	23.7	84.8	10.6
RUFF'S P334A	141.4	134.4	142.6	20.5	87.6	3.5
SELECT SEED 8400	144.6	133.5	142.2	21.1	80.5	8.5
NORTHROP-KING PXA7	149.4	138.6	142.1	21.2	84.3	5.4
DUKE 21			141.8	22.3	86.7	3.2
RO-JAC 562			141.4	21.0	83.4	4.1
TROJAN TXS-115A		125.2	141.1	20.0	88.1	0.6
PIONEER BRAND 3184	147.3	133.5	141.0	20.6	93.3	1.0
PREMIER SX636	148.0	146.7	140.9	21.9	89.0	2.1
GALDWIDGE RX77	133.6	125.9	140.6	21.6	80.0	3.0
FERRY-MORSE GT4022		138.5	140.3	21.3	84.8	3.8
P.A.G. SX373	145.8	134.6	140.3	22.9	84.3	1.6
SELECT SEED S160	133.2	128.5	140.0	22.3	87.1	3.8
DEKALB XL728B			139.7	20.8	81.0	1.6
DM 7175	134.5	130.1	139.5	20.3	87.1	3.5
ZIMMERMAN Z24Y	140.9	133.7	139.3	20.6	90.5	5.8
CARGILL 921			139.2	18.8	86.2	5.6
PREMIER SX639A			139.2	20.6	80.5	1.9
GOLDEN HARV. H2686			139.2	25.1	75.2	0.0
VORIS SEEDS V2641		151.7	139.1	22.7	83.3	2.8
MIGRU/NAPB HP87			138.7	23.2	84.8	2.2
STEWART 7384			138.7	20.9	73.6	1.3
SCOTT SEED LR880			138.0	21.9	76.7	1.3
COLBERT 315		132.7	137.1	21.4	92.4	5.3
ACCO UC8951	132.1	122.0	137.1	22.7	91.4	1.1
GOLDEN HARV. H2680			137.0	22.9	85.2	2.4
AGRI-GOLD XA-812			136.5	20.1	88.1	4.3
USS AG-CHEM USS 2020		132.7	135.1	22.7	80.5	0.6
USS AG-CHEM USS 1010	130.7	122.8	134.8	21.5	87.6	1.1
PRINCETON SX870	154.5	143.4	134.8	21.9	73.3	1.4
FERRY-MORSE GT3020	128.0	125.6	134.7	20.2	79.0	1.9
P.A.G. SX351		130.5	134.4	21.6	86.2	3.5
MIGRU/NAPB M-0707	137.0	130.8	134.2	21.7	88.6	5.3
RING AROUND RA1504		122.0	133.9	19.6	79.5	3.5
SO. STATES SS785			133.4	19.9	89.5	1.6
SUPER CROST 7801	141.8	127.3	133.3	22.5	86.7	1.1
USS AG-CHEM USS 1516		133.7	132.8	20.3	84.3	11.6
ACCO UC7601			132.5	20.6	85.7	4.4
FUNK'S G4507A		120.7	131.7	19.9	95.2	3.5
O'S GOLD SX5291			131.7	22.6	86.7	3.3

TABLE 2.—AGRONOMIC INFORMATION PERTAINING TO 1981 TEST LOCATIONS

Location and Cooperator	Soil Type	Fertilizer lb/A	Herbicide	Insecticide	Planting Date	Harvest Dates
(1) Murray, KY Sherwood and Ted Potts	Grenada and Brandon Silt Loam	N -170 P ₂ O ₅ - 92 K ₂ O - 90	Aatrex Nine-0 and Dual	Furadan	April 16	September 23 & 25
(2) Princeton, KY Western KY Substation	Huntington and Lindsie Silt Loam	N -150 P ₂ O ₅ -None K ₂ O - 60	Eradicane and Bladex	Furadan and Lorsban	June 11	November 10, 11 & 12
(3) Henderson, KY James Buley Reid, KY	Huntington Sandy Loam	N -120 P ₂ O ₅ -None K ₂ O -None	Sutan ⁺ and Aatrex	None Applied	May 7	Not Harvested
(4) Sebree, KY J. A. Tapp	Belknap Silt Loam	N -150 P ₂ O ₅ -None K ₂ O - 35	Dual and Aatrex	Furadan	April 15	September 28 & 29
(5) Elkton, KY Rudy Hall Farm	Pembroke Silt Loam	N -160 P ₂ O ₅ -None K ₂ O -None	Sutan ⁺ and Aatrex Nine-0	Furadan	April 7	September 21 & 22
(6) Bardstown, KY Tommy Hart	Pembroke Silt Loam	N -185 P ₂ O ₅ - 92 K ₂ O -100	Aatrex and 2,4-D	Furadan	April 8	September 30 & October 1 & 2
(7) Frankfort, KY Mason and Ralph Bates	Armour Silt Loam	N -100 P ₂ O ₅ -None K ₂ O -None	Eradicane and Aatrex	None Applied	May 22	October 29
(8) Lexington, KY K.A.E.S. Spindletop Farm	Lanton Silt Loam	N -150 P ₂ O ₅ -None K ₂ O - 60	Eradicane and Aatrex	Furadan	April 27	October 5 & 6
(9) Quicksand, KY Robinson Substation	Philo Silt Loam	N -180 P ₂ O ₅ -100 K ₂ O -100	Eradicane, Aatrex, & Lasso	Furadan	May 4	October 7, 8 & 12

TABLE 3.—ANNUAL SUMMARY, MURRAY, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	XTOTAL % LOGGED 1981
YELLOW HYBRIDS						
NORTHROP-KING PX95	173.7	184.0	192.4	22.4	87.6	1.7
SUPER CRST 7801	171.2	167.4	182.9	20.5	91.4	0.0
RUFF'S R334A	161.3	165.5	179.7	19.5	86.2	0.0
P.A.G. SX373	161.3	167.3	179.5	20.2	89.0	0.0
PREMIER SX636	167.3	174.4	179.3	21.2	90.0	1.0
GOLDEN HARV. H2775A			177.6	20.8	92.4	1.0
SO. STATES SS915	161.4	164.5	177.3	22.0	94.3	2.5
ACCO UC8951	159.5	166.8	176.4	19.5	87.1	0.0
HO-JAC 923	176.1	172.6	176.3	19.9	89.5	1.5
SUPEK CRST 6101		172.7	176.1	19.4	91.9	0.0
COLBERT 340	158.3	153.7	175.1	20.1	87.6	0.0
AGRI-GOLD A-6900	160.2	175.5	175.0	19.3	91.4	0.0
COLBERT 315		155.6	174.5	20.1	90.0	2.2
RING AROUND RA1502	161.0	174.1	173.8	20.0	84.3	0.0
JACQUES JX247	163.6	168.1	172.3	19.3	84.3	0.6
FUNK'S G4733			171.8	21.2	89.0	0.0
SELECT SEED 8900			169.2	18.3	86.2	0.0
SELECT SEED 9300	170.5	168.6	168.5	20.5	89.0	1.0
O'S GOLD SX5509	166.5	175.3	168.1	20.5	89.5	0.5
MIGRO/NAPB HP87		168.0	168.0	19.3	90.5	0.0
GOLDEN AC. T-E 699A			167.8	20.8	84.8	5.6
SELECT SEED 8400	162.4	161.5	166.9	20.5	88.1	1.6
DEKALB XL71	145.1	154.5	166.4	19.4	92.9	2.9
GOLDEN HARV. H2680			166.3	19.5	84.3	4.2
COLBERT 345	171.5	162.4	166.0	19.8	91.9	0.0
TROJAN TXS-114	156.1	155.5	166.0	18.5	89.0	0.0
SCOTT SEED L9880			165.5	19.6	86.2	2.2
MIGRO/NAPB 4-0707	163.9	158.4	164.9	20.2	88.1	4.5
FERRY-MORSE GT4022		158.2	164.6	18.5	92.9	4.6
PIONEER BRAND 3369A	162.3	157.7	164.4	18.3	87.1	1.5
GUTWEIN 2875		154.5	163.8	20.2	94.3	0.5
SO. STATES SS775	149.8	152.2	162.0	20.1	92.9	0.6
MIGRO/NAPB SPX77		156.6	161.6	21.0	88.6	0.0
P.A.G. SX333	154.8	156.9	161.5	18.4	86.7	3.9
PIONEER BRAND 3160		170.0	161.4	22.4	85.7	2.2
GUTWEIN 2910	148.5	139.8	161.3	17.5	85.7	1.1
COCKER 21			160.7	18.8	88.6	4.4
TROJAN T-1230		165.0	159.0	19.5	87.1	0.5
TROJAN TXS-115A		155.4	158.9	19.2	89.5	0.0
ZIMMERMAN Z24Y	148.2	155.7	158.5	19.1	87.6	1.5
AGRI-GOLD A-812			158.3	21.4	90.0	0.0
USS AG-CHEM USS 2020		166.6	158.2	20.3	86.7	0.0
DEKALB XL74A		156.5	158.1	20.5	94.8	3.0
BALDRIDGE XX77	144.0	154.8	158.0	19.8	85.7	0.0
CARGILL 949		165.0	157.8	16.8	81.0	1.1
CARGILL 934		153.1	157.8	16.6	89.0	1.6
ADLENS 60X			157.5	18.7	85.7	1.0
DH 9113	155.6	151.8	157.2	20.5	88.6	3.2
USS AG-CHEM USS 1516		159.6	156.9	19.4	81.0	0.0
COCKER 19A		136.9	156.6	19.1	86.2	0.0
HO-JAC 562			154.7	20.5	82.4	0.0
MCCUMDY #150			154.7	22.9	86.2	0.0
VORIS SEEDS V2641			154.5	19.6	88.6	1.5
FUNK'S G4507A		149.5	154.3	17.9	87.1	2.5
O'S GOLD SX5291			153.6	20.8	87.1	0.5
PREMIER SX639A			153.1	20.5	86.2	0.5
NORTHROP-KING PX87	146.7	156.0	153.0	18.6	89.0	0.0
CARGILL 921			152.9	17.4	87.6	2.4
P.A.G. SX397			152.4	16.9	90.5	0.5
ADLENS 30X		146.7	151.4	19.0	89.0	1.1
RING AROUND RA1604		157.1	151.1	20.8	85.2	1.2
DEKALB XL7288			151.0	20.2	88.1	6.3
MCCUMDY 844A	162.2	152.9	150.5	20.7	84.3	2.8
FUNK'S G4522			150.3	19.7	91.9	0.0
DENNIS DS42	139.6	157.2	150.2	18.9	88.1	0.0

TABLE 7.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	XTOTAL % LOGGED 1981
YELLOW HYBRIDS						
HO-JAC 452			136.7	16.7	76.5	2.6
P.A.G. SX333	148.3	137.0	136.7	16.8	81.6	2.6
FERRY-MORSE GT4022		116.7	136.6	18.6	74.4	8.6
PIONEER BRAND 3184	134.2	119.2	135.7	18.2	89.3	2.9
GOLDEN HARV. H2686			135.6	20.1	73.1	5.4
CARGILL 934		119.3	135.6	16.3	84.2	2.1
ADLENS 30X		138.0	135.3	16.6	79.9	3.3
PRINCETON SX870	135.1	118.9	134.1	18.8	63.2	10.7
COLBERT 340	145.1	133.8	134.0	18.2	76.5	5.7
PREMIER SX639A			133.1	18.6	82.1	1.7
PIONEER BRAND 3369A	131.6	119.6	132.4	17.2	82.9	14.9
SO. STATES SS775	129.3	116.4	131.1	17.9	82.9	5.3
JACQUES JX180	126.0	125.8	130.6	16.7	80.3	5.5
P.A.G. SX397			130.0	16.7	80.3	4.3
FERRY-MORSE GT3020	137.4	120.3	129.9	16.4	81.6	13.6
PRINCETON SX860		120.4	128.0	17.1	74.8	1.2
STEWART 7384			127.6	17.8	70.9	4.8
FUNK'S G4507A		125.0	127.5	17.3	77.0	6.7
SUPEK CRST 4337			124.8	16.1	81.6	5.9
DH 7175	144.5	133.0	124.0	16.4	79.5	4.4
USS AG-CHEM USS 1010	126.9	118.1	123.4	16.8	81.2	4.7
SELECT SEED 5100	143.1	126.5	121.4	17.5	80.3	11.0
TROJAN TXS-115A		115.0	118.1	16.5	73.5	23.9
GUTWEIN 2910	133.3	112.2	118.0	18.3	65.8	9.2
RING AROUND RA1504		116.8	115.2	16.4	72.2	6.4
SELECT SEED 5050			115.1	16.6	71.4	8.8
USS AG-CHEM USS 0555A			113.4	16.5	75.6	4.1
FERRY-MORSE GT3006			112.4	16.6	76.5	7.2
FUNK'S G4522			112.4	18.7	69.7	9.9
JACQUES JX179			110.6	16.5	80.8	9.8
SCOTT SEED LR101			107.7	16.4	70.5	18.8
STEWART 7389			107.3	16.6	72.2	4.7
TROJAN T-1100			106.0	16.9	67.5	0.0
FERRY-MORSE GT3008			105.3	17.1	73.1	7.0
CARGILL 949		111.0	104.9	16.8	77.8	20.1
GOLDEN AC. T-E 6995	124.6	106.1	102.7	16.4	73.5	8.0
DENNIS DS25			89.4	16.9	69.2	5.6
PREMIER SX632			87.1	17.0	67.9	6.8
DH 8177			82.3	18.3	52.6	22.2
YELLOW AVERAGE						
	144.0	132.6	141.6	18.0	79.4	5.8
WHITE HYBRIDS						
ZIMMERMAN Z52W	141.8	134.3	181.0	20.7	85.5	2.5
MEACHAM'S MV78		138.1	172.6	21.7	85.5	7.9
PRINCETON SX910W	141.6	142.8	168.8	21.3	82.1	5.8
NK/MCNAIR X233W	140.2	139.6	167.4	21.6	79.1	4.8
GOLDEN HARV. H2660W	134.1	132.5	165.9	21.8	83.8	5.1
FUNK'S G4747A-1			164.1	21.2	82.9	9.5
ZIMMERMAN Z11W	133.6	129.4	159.6	21.7	82.9	10.0
AGRI-GOLD A-6955W		139.4	159.0	21.6	85.9	6.9
RING AROUND 2602W		119.5	156.2	22.1	76.9	7.6
FUNK'S G4787W			149.8	21.6	74.8	2.1
SO. STATES SS950W	135.2	123.7	149.5	20.5	81.2	5.7
ASGRUN RX962W	135.0	126.4	147.3	21.7	79.9	2.3
PIONEER BRAND 519W		129.2	144.1	20.0	78.6	5.5
ZIMMERMAN Z54W			138.8	20.0	82.1	5.2
ZIMMERMAN Z14W		132.8	138.4	21.9	75.6	3.4
RING AROUND RA3605W			137.1	20.7	82.5	11.7
DEKALB XL3908	129.4	123.6	129.9	20.1	68.4	5.0
WHITE AVERAGE						
	136.4	131.6	154.7	21.2	80.4	5.9
GRAND AVERAGE						
	142.8	132.4	143.4	18.5	79.5	5.8
LSD*			25.1	1.3	8.8	NS
C.V.			13.0	5.2	8.2	134.4

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 7.—ANNUAL SUMMARY, BARDSTOWN, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	% TOTAL LOGGED 1981
YELLOW HYBRIDS						
COKEK 21			182.3	19.9	82.9	2.0
GOLDEN AC, T-E 6998			178.9	19.6	80.8	3.6
U'S GOLD SX5509	160.9	153.8	178.7	18.5	82.5	2.6
JACQUES JX247	155.7	148.8	171.7	19.5	83.8	3.6
GOLDEN HARV. H2775A			171.3	20.5	82.1	4.1
SO. STATES SS915	151.0	148.2	171.0	18.9	84.2	4.0
SELECT SEED 9300	157.1	152.5	170.9	20.3	87.2	3.9
GOLDEN HARV. H2680			169.6	19.6	85.5	4.6
DH 9113	154.3	149.4	168.5	20.1	82.9	7.2
MIGRU/NAPH HP87		150.9	166.4	20.1	81.6	4.7
RING AROUND RA1604		145.4	165.9	19.7	79.1	2.5
NORTHROP-KING PX95	149.8	138.1	165.2	20.1	82.1	5.4
ADLERS 68X	158.0	142.8	164.8	20.3	81.2	4.2
STEWART 6973	150.6	139.2	163.5	18.3	77.4	0.6
SUPER CROST 7801	144.0	131.2	163.3	19.4	82.1	4.1
SCOTT SEED LR880			162.9	18.6	83.3	4.3
MIGRU/NAPH SPX77		156.9	162.8	19.5	85.9	3.4
MCCURDY 8150			162.5	20.7	81.2	3.2
PIONEER BRAND 3160		147.6	162.4	20.1	86.8	2.5
BALDINGE RX77	136.8	130.9	161.9	18.6	79.5	5.0
VORIS SEEDS V2651	152.4	144.0	161.2	18.0	76.9	4.4
CARGILL 921			161.2	15.8	87.6	7.8
CARGILL 967	144.0	132.4	160.8	16.9	82.9	0.0
DEKALB XL71	158.2	148.9	160.5	18.1	88.5	1.9
COKEK 19A		149.8	159.7	17.7	85.9	1.4
COLBERT 345	149.4	126.4	159.7	18.6	85.9	3.9
AGRI-GOLD A-6900	154.5	142.6	159.1	18.4	82.5	5.7
NORTHROP-KING PX87	146.3	137.8	157.9	19.3	79.9	16.5
COKEK 22	141.7	130.1	156.0	19.5	80.8	3.2
P.A.G. SX373	145.3	128.5	155.7	18.8	80.3	1.1
TROJAN T-1230		146.5	155.1	19.4	76.9	5.6
U'S GOLD SX5291			154.5	18.4	85.9	3.9
RUFF'S R354A	139.8	129.1	154.4	16.0	88.0	6.8
RING AROUND RA1502	141.7	136.4	152.8	18.7	78.6	1.7
DEKALB XL74A			152.6	17.1	87.6	4.4
PREMIER SX636	147.7	138.3	151.0	18.8	84.6	7.1
SELECT SEED 8400	148.9	140.3	150.8	17.6	81.6	2.7
VORIS SEEDS V2641			149.2	19.4	75.6	4.2
DENNIS DS42	146.5	145.9	148.8	16.4	78.2	3.9
STEWART SX77	139.7	131.7	148.4	18.8	75.2	4.6
ACCO UC8951	145.6	143.6	148.1	18.5	80.8	2.2
BO-JAC 923	151.1	137.4	147.9	19.3	72.6	8.5
ZIMMERMAN Z24Y	131.3	124.3	147.9	18.6	83.3	1.0
P.A.G. SX351		132.8	147.4	16.6	82.1	3.7
AGRI-GOLD A-812			147.2	17.9	86.3	2.4
SELECT SEED 8900			146.2	17.1	85.5	11.1
USS AG-CHEM USS 2020		131.6	145.7	19.9	79.1	4.2
COLBERT 315		139.1	144.1	17.5	83.3	4.3
ACCO UC7601			143.9	18.3	77.8	5.0
TROJAN TXS-114	144.1	125.5	143.8	17.3	78.6	4.5
GUTWEN 2875		132.7	143.3	18.6	79.9	12.0
MIGRU/NAPH HP470			141.4	17.3	81.6	0.0
BO-JAC 562			141.3	18.4	79.5	9.9
SUPER CROST 6101		137.5	141.1	17.9	78.2	4.2
ADLERS 60X			140.5	18.0	79.9	8.5
PIONEER BRAND 3320		123.8	139.9	19.1	80.8	3.7
FUNK'S G4733			139.9	20.0	79.5	10.7
MCCURDY 844A	147.5	134.0	139.2	18.2	76.5	3.5
SO. STATES SS785			139.0	16.5	84.2	5.5
COKEK 19	136.4	129.8	138.9	17.1	80.8	2.6
DEKALB XL7288			138.9	18.3	85.5	1.5
MIGRU/NAPH M-0707	145.1	133.3	138.8	18.2	83.8	6.1
DENNIS DS26			137.9	17.4	82.5	8.0
NORTHROP-KING PX83		122.5	137.8	18.5	76.1	1.7
USS AG-CHEM USS 1516		132.2	137.1	17.2	76.9	6.7

TABLE 3.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	% TOTAL LOGGED 1981	
YELLOW HYBRIDS							
SELECT SEED 5100	151.8	142.5	149.2	16.4	93.8	1.5	
COKEK 22	153.5	157.4	149.0	20.5	89.5	2.0	
STEWART 6973	155.6	152.7	149.0	20.1	89.5	0.0	
STEWART SX77	148.7	153.4	148.6	20.2	86.7	0.0	
SO. STATES SS785			148.5	18.2	86.7	0.0	
MIGRU/NAPH HP470			148.3	17.7	91.0	0.0	
ACCO UC7601			148.1	19.3	90.5	0.0	
PIONEER BRAND 3320		154.4	147.6	21.1	83.8	0.0	
GOLDEN HARV. H2686			147.5	19.8	80.0	1.8	
VORIS SEEDS V2651	162.9	157.6	146.3	21.1	87.1	4.7	
PRINCETON SX870	167.1	159.3	144.0	18.7	81.0	3.5	
DENNIS DS26			143.6	17.2	82.9	1.2	
SELECT SEED 5050			142.4	18.3	71.4	0.0	
FERRY-MORSE GT3020	146.0	145.6	141.8	20.7	83.8	0.0	
USS AG-CHEM USS 1010	138.2	144.9	140.1	19.0	84.8	0.6	
ADLERS 68X	157.8	157.4	139.9	18.9	84.8	0.6	
PIONEER BRAND 3184	148.2	145.5	139.8	19.0	88.6	0.5	
P.A.G. SX351		147.9	139.5	17.0	85.7	0.0	
BO-JAC 452			139.3	18.3	92.9	2.6	
SCOTT SEED LR101			138.1	17.5	87.1	0.0	
CARGILL 967	161.5	150.9	137.8	17.8	80.5	0.0	
SUPER CROST 4337			135.7	17.7	82.9	1.0	
STEWART 738A			134.4	17.7	81.9	0.6	
COKEK 19	147.0	145.4	133.1	18.0	90.5	3.2	
PRINCETON SX860			137.1	132.6	20.2	89.0	1.0
NORTHROP-KING PX83		128.4	130.3	19.2	77.6	0.0	
PREMIER SX632			129.7	18.0	90.0	0.6	
DH 7175	135.7	127.4	129.0	19.6	86.2	1.1	
GOLDEN AC, T-E 6995	128.2	119.3	128.9	19.8	91.9	2.1	
TROJAN T-1100			127.8	17.7	87.6	1.2	
DH 8177			127.1	20.3	77.6	1.2	
STEWART 7389			126.8	17.4	81.9	2.2	
DENNIS DS25			120.7	18.3	80.5	0.5	
RING AROUND RA1504		138.4	120.4	14.9	84.8	1.1	
JACQUES JX180	129.0	131.3	118.4	19.4	80.0	0.6	
USS AG-CHEM USS 0555A			117.6	18.1	85.2	3.7	
FERRY-MORSE GT3006			116.9	18.8	81.4	0.0	
FERRY-MORSE GT3008			108.4	19.5	90.0	1.7	
JACQUES JX179			104.5	18.8	80.5	4.0	
YELLOW AVERAGE	155.9	156.0	153.0	19.4	87.1	1.2	
WHITE HYBRIDS							
SO. STATES SS950W	173.1	177.4	187.4	21.0	91.0	3.1	
PIONEER BRAND 519W		168.7	169.4	20.2	83.3	0.6	
MEACHAM'S MV78		166.6	166.1	20.7	85.2	7.9	
FUNK'S G4747W-1			164.2	21.1	85.7	3.0	
PRINCETON SX910W	159.7	165.4	163.6	20.5	93.8	1.9	
ZIMMERMAN Z14W		158.3	162.7	20.4	89.0	1.6	
RING AROUND RA3605W			162.4	20.8	88.1	1.8	
ASGRUW RX962W	162.0	162.8	160.3	21.0	86.2	0.0	
FUNK'S G4787W			160.3	21.8	91.9	0.0	
ZIMMERMAN Z11W	154.8	154.4	157.4	22.0	87.6	0.5	
RING AROUND 2602W		148.0	156.2	22.2	84.8	1.1	
DEKALB XL3908	158.0	152.3	156.0	19.6	80.0	1.6	
ZIMMERMAN Z52W	153.7	149.7	152.6	20.7	87.1	0.0	
NK/MCHAIR X233W	142.5	143.1	144.7	20.7	89.0	2.7	
GOLDEN HARV. H2660W	147.5	139.8	140.7	20.3	84.3	1.8	
AGRI-GOLD A-6955W		132.6	140.1	21.2	81.4	3.9	
ZIMMERMAN Z54W			118.2	21.7	80.0	0.6	
WHITE AVERAGE	156.4	154.9	156.6	21.0	86.4	1.9	
GRAND AVERAGE							
GRAND AVERAGE	156.0	155.8	153.5	19.6	87.0	1.3	
LSD*			22.0	1.5	NS	NS	
C.V.			10.6	5.7	7.5	185.0	

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 4.—ANNUAL SUMMARY, PRINCETON, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981	
YELLOW HYBRIDS							
SELECT SEED 9300	126.5	109.5	141.5	25.2	87.1	10.8	
PIONEER BRAND 3160		125.6	140.2	24.5	86.7	8.8	
USS AG-CHEM USS 1516		119.3	132.1	23.5	84.3	17.7	
SELECT SEED 8400	145.7	121.4	131.2	20.5	91.0	7.3	
DH 9113	128.7	107.2	129.8	22.6	75.7	12.2	
COLBERT 340	132.1	110.4	126.6	24.0	87.1	9.7	
SELECT SEED 8900			126.6	23.1	86.2	12.7	
HIGRU/NAPB M-0707	133.9	118.2	126.5	24.0	83.3	7.9	
RUFF'S R334A	124.5	105.5	121.1	21.4	87.1	25.1	
CARGILL 949		109.9	120.0	20.7	78.1	10.7	
RING AROUND RA1502	122.5	97.3	119.4	23.2	81.4	7.7	
GOLDEN AC. T-E 6998			119.1	24.5	87.1	10.5	
PREMIER SX636	131.6	108.0	117.8	22.4	87.1	9.7	
RING AROUND RA1604		114.9	117.3	23.4	82.9	13.7	
SCOTI SEED LR880			117.2	23.9	81.0	11.6	
O'S GOLD SX5291			117.2	24.6	87.6	10.8	
SUPER CROST 7801	119.2	102.0	116.8	24.0	83.8	11.2	
GUTWEIN 2910	132.5	109.3	116.3	24.9	76.2	18.8	
BO-JAC 923	130.7	104.4	116.0	23.1	85.7	12.8	
BALDWIN RDX77	110.8	87.2	115.6	21.8	76.7	12.0	
TROJAN TXS-114	126.1	105.0	115.5	20.9	78.6	14.2	
GOLDEN HARV. H2775A			115.2	25.4	87.1	16.4	
STEWART 7384			115.0	21.8	79.0	15.4	
MCCURDY 8150			114.9	25.6	91.0	9.5	
PIONEER BRAND 3184	130.9	110.6	114.6	23.7	84.8	8.0	
GOLDEN HARV. H2686			114.5	26.1	75.2	12.0	
DH 7175	132.9	109.1	114.2	23.3	86.2	10.0	
SO. STATES S5775	112.0	95.2	113.9	21.9	86.7	11.1	
BO-JAC 562			113.7	22.8	85.2	13.8	
SCOTI SEED LR101			113.7	24.0	80.5	13.7	
JACQUES JX180	120.6	102.2	112.8	21.1	77.6	15.5	
COKEK 21			111.2	20.8	81.0	13.0	
NORTHROP-KING PX95	121.0	95.7	111.2	25.9	82.4	10.5	
PRINCETON SX870	126.8	102.0	111.2	22.7	81.4	15.0	
COKEK 22	126.9	105.4	111.1	22.9	77.1	10.3	
GOLDEN AC. T-E 6995	122.0	103.8	110.4	20.9	89.0	13.0	
DENNIS DS42	125.6	113.9	109.8	20.2	77.1	16.1	
ZIMMERMAN Z24Y	130.8	108.7	109.4	24.9	84.3	12.2	
P.A.G. SX351		94.6	109.4	24.2	81.0	10.9	
MCCURDY 444A	129.8	111.3	109.3	23.6	81.9	9.4	
STEWART 6973	121.9	94.2	109.2	24.8	78.1	10.5	
PREMIER SX639A			108.6	23.0	83.8	5.4	
DEKALB XL728B			108.4	23.0	85.2	9.9	
SUPER CROST 6101		103.0	108.4	22.2	82.9	13.3	
GUTWEIN 2875		100.6	108.2	25.1	74.3	15.6	
BO-JAC 452			107.9	19.2	88.6	8.9	
ACCO UC8951	129.5	105.2	107.9	22.0	79.0	11.8	
AGRI-GOLD A-6900	131.7	117.4	107.8	23.8	85.2	9.5	
SELECT SEED 5050			106.8	19.9	81.4	10.4	
SELECT SEED 5100	129.7	100.8	106.2	20.2	75.2	11.3	
O'S GOLD SX5509	133.0	110.9	105.9	23.6	81.9	20.1	
NORTHROP-KING PX83			96.6	105.7	22.4	76.2	13.3
P.A.G. SX353	124.0	100.5	105.4	18.3	85.7	13.3	
ADLEMS 30X		94.3	105.0	19.6	81.4	7.1	
PRINCETON SX860		84.1	105.0	23.0	76.7	9.9	
VORIS SEEDS V2651	124.2	96.9	104.7	23.5	78.1	29.4	
TROJAN TXS-115A		101.5	104.7	22.0	87.1	9.3	
SO. STATES SS915	119.3	90.8	104.2	25.2	79.5	14.0	
FERRY-MORSE GT3006			104.2	20.5	80.5	9.8	
AGRI-GOLD XA-812			103.5	22.9	81.0	13.0	
DH 8177			103.4	24.1	81.4	7.2	
ACCO UC7601			102.6	22.2	76.7	14.3	
HIGRU/NAPB HP87		99.9	102.1	23.2	82.9	10.0	
TROJAN T-1230		105.5	101.6	24.2	79.0	12.0	
VORIS SEEDS V2641			101.5	23.6	72.9	15.7	

TABLE 6.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981
YELLOW HYBRIDS						
FUNK'S 64733			146.6	21.4	87.1	17.0
PREMIER SX632			146.3	18.5	79.0	15.8
RING AROUND RA1504		106.2	146.2	18.6	87.1	20.1
DENNIS DS26			145.6	18.9	81.4	22.5
FERRY-MORSE GT3006			145.1	18.0	88.1	7.1
TROJAN TXS-115A		116.4	144.6	20.0	88.6	36.4
COLBERT 315		111.1	144.0	20.1	91.9	25.4
FUNK'S 64507A		111.1	142.0	19.5	89.5	15.4
COKEK 19A		108.6	141.7	20.2	82.9	25.1
ADLEMS 30X		114.9	139.6	17.4	87.1	13.4
JACQUES JX180	120.5	110.7	139.3	18.3	79.5	26.3
USS AG-CHEM USS 1516		119.9	139.2	20.2	82.4	33.7
PIONEER BRAND 3320		100.2	139.1	19.2	83.8	11.5
SELECT SEED 5050			138.7	18.2	76.2	9.7
PREMIER SX639A			137.2	20.1	81.4	17.1
SO. STATES SS775	118.1	106.6	136.9	20.8	87.6	16.2
SCOTI SEED LR101			135.5	19.6	80.5	9.1
HIGRU/NAPB SPX77		113.0	134.9	20.2	84.3	15.8
CARGILL 921			134.8	18.1	85.2	23.2
BO-JAC 452			134.4	18.7	88.6	14.0
DENNIS DS42	119.9	112.5	134.0	19.8	85.2	21.9
SO. STATES SS915	110.1	97.2	132.3	20.2	88.1	43.6
TROJAN T-1100			132.2	19.6	79.0	14.3
NORTHROP-KING PX83		95.0	130.7	19.4	77.6	14.6
SUPER CROST 4337			129.8	18.4	73.3	10.5
P.A.G. SX353	117.4	108.4	129.6	19.5	83.3	20.4
PRINCETON SX860		110.7	129.4	19.9	84.8	22.6
FERRY-MORSE GT3020	115.0	102.4	129.3	19.0	76.7	39.1
CARGILL 934		100.4	129.0	18.9	82.4	9.3
CARGILL 949		109.0	128.6	18.8	86.2	16.3
STEWART 7389			128.7	18.0	83.3	10.3
DENNIS DS25			129.2	18.1	81.0	4.6
DH 7175	109.1	94.7	119.7	18.7	86.2	33.6
GOLDEN AC. T-E 6995	106.1	93.3	119.7	19.2	85.2	22.7
FERRY-MORSE GT3008			118.5	18.5	85.7	19.8
JACQUES JX179			118.4	19.0	86.2	18.9
P.A.G. SX397			117.1	19.6	77.1	24.0
USS AG-CHEM USS 0555A			111.7	19.4	81.9	14.1
DH 8177			90.0	20.2	75.2	42.2
YELLOW AVERAGE	128.2	117.6	150.9	19.9	84.5	19.8
WHITE HYBRIDS						
FUNK'S 64787W			167.9	21.3	87.1	17.6
ZIMMERMAN Z14W		117.2	167.2	21.7	81.4	13.7
DEKALB XL3908	124.0	116.3	164.4	20.5	74.8	27.7
ZIMMERMAN Z52W	113.1	103.4	160.7	21.8	88.1	31.9
MEACHAM'S M78		111.5	156.3	21.2	86.2	25.6
AGRI-GOLD A-6955W		113.5	155.8	21.6	89.0	28.8
ASGRON RX962W	114.2	105.1	152.5	21.6	82.9	10.0
FUNK'S 64747W-1			152.0	21.3	92.9	43.4
NK/MCNAIR X233W	109.7	100.7	151.9	21.1	81.9	33.4
PRINCETON SX910W	114.4	108.7	147.9	21.7	87.6	40.3
PIONEER BRAND 519W		102.8	147.5	20.8	83.3	27.5
ZIMMERMAN Z11W	108.0	101.6	144.6	21.1	85.7	38.9
RING AROUND RA3605W			142.7	21.5	82.4	22.6
SO. STATES SS950W	120.0	106.5	139.4	20.7	84.3	29.0
RING AROUND 2602W		99.8	138.8	22.2	75.2	42.2
GOLDEN HARV. H2660W	106.7	95.4	132.4	21.1	84.8	36.8
ZIMMERMAN Z54W			129.0	21.5	77.6	13.1
WHITE AVERAGE	113.8	106.3	150.1	21.3	83.8	28.4
GRAND AVERAGE						
ISD*			25.2	1.3	NS	18.1
C.V.			12.4	4.9	10.2	64.1

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 6.—ANNUAL SUMMARY, ELKTON, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981
YELLOW HYBRIDS						
80-JAC 925	140.6	138.9	197.8	20.9	93.8	16.2
PREMIER SX636	140.7	131.5	179.7	21.3	87.6	28.1
SUPER CROST 7801	147.7	138.1	178.6	20.7	90.5	19.9
MIGRU/NAPH M-0707	134.7	125.1	175.9	21.3	86.7	14.9
PIONEER BRAND 3160		127.3	174.6	20.7	91.9	26.8
USS AG-CHEM USS 2020		129.2	174.5	21.4	85.2	11.8
ACCU UC8951	137.6	132.1	173.1	20.8	92.9	13.4
ZIMMERMAN Z24Y	136.5	134.5	172.5	19.8	91.0	12.6
PIONEER BRAND 3184	131.3	124.5	172.3	20.0	88.1	12.2
ADLERS 88X	145.1	133.1	172.2	20.6	90.0	15.4
TROJAN T-1230		131.6	171.9	20.5	88.1	13.6
GUTWEIN 2910	132.1	122.3	171.2	18.4	81.9	17.0
BALDINGO HX77	122.4	109.0	170.7	20.7	85.7	21.2
GOLDEN HARV. H2680			169.9	21.5	89.0	11.1
NORTHROP-KING PX95	135.2	122.5	169.9	20.5	76.2	14.5
GOLDEN AC. T-E 699A			169.9	20.1	85.7	20.9
VORIS SEEDS V2641			169.3	19.7	83.3	29.4
NORTHROP-KING PX87	125.8	118.6	168.9	20.2	80.0	22.3
AGRI-GOLD A-6900	137.1	130.4	168.2	20.7	86.7	28.0
FUNK'S G4522			167.9	19.8	83.3	6.0
TROJAN TXS-114	123.9	117.9	167.9	19.1	90.0	9.6
COLBERT 345	125.0	112.0	166.9	20.4	87.1	27.3
STEWART 7384			166.4	19.9	80.0	14.6
P.A.G. SX373	142.3	121.1	166.4	20.9	85.2	22.9
STEWART S477	128.8	121.3	165.2	21.6	86.7	10.8
SUPER CROST 6101		127.4	164.6	19.7	95.2	45.6
80-JAC 562			164.6	20.1	73.3	34.1
COKEK 21			164.1	21.0	85.2	17.7
COLBERT 140	131.9	116.5	164.0	20.1	81.4	17.0
SELECT SEED 8900			163.7	19.3	85.7	3.2
MCCORDY 8150			163.4	20.1	84.8	10.6
USS AG-CHEM USS 1010	123.0	124.4	163.4	19.3	86.7	16.9
O'S GOLD SX5509	138.9	131.2	162.7	21.2	88.1	20.8
RUFF'S RX344	120.1	115.3	161.9	19.7	85.7	4.3
YM 9113	140.0	128.5	160.5	19.3	89.0	22.6
COKEK 22	118.8	116.0	160.3	20.5	91.4	25.5
MIGRU/NAPH HP87		126.6	160.0	20.7	77.6	23.0
RING AROUND RA1502	131.1	123.3	159.1	20.3	91.0	19.7
SCOTT SEED LR880			157.8	20.2	75.2	35.2
PRINCETON SX870	128.8	121.0	157.4	22.0	87.1	17.6
P.A.G. SX351		124.3	156.8	19.2	80.0	15.9
SELECT SEED 8400	118.0	114.3	156.6	19.9	87.6	14.3
STEWART 6973	132.0	112.7	156.5	19.7	85.7	28.4
DEKALB XL74A		117.8	156.0	20.9	87.1	21.9
GOLDEN HARV. H2686			155.9	21.3	82.4	14.3
FERRY-MORSE GT4022		122.9	155.0	20.6	82.4	20.2
SELECT SEED 9300	136.8	125.4	154.5	21.6	89.5	28.9
AGRI-GOLD X4-812			153.9	19.8	73.3	5.0
GUTWEIN 2875		112.0	153.6	20.9	73.8	7.2
DEKALB XL71	127.1	117.2	153.2	18.6	84.8	16.9
MIGRU/NAPH HP47D			152.5	18.7	81.9	29.2
CARGILL 967	133.6	121.6	152.4	19.0	88.6	32.3
VORIS SEEDS V2651	135.4	124.2	151.9	21.5	77.6	12.4
O'S GOLD SX5291			151.8	20.3	80.5	22.7
JACQUES JX247	130.7	116.6	150.9	21.2	73.3	21.3
ACCU UC7601			150.7	20.2	83.8	9.7
SELECT SEED 5100	124.1	121.0	150.3	19.4	85.7	24.5
ADLERS 60X			150.3	20.2	88.1	25.9
PIONEER BRAND 3369A	128.8	118.5	149.0	19.3	85.2	22.8
RING AROUND RA1604		109.0	148.9	20.5	84.3	22.0
GOLDEN HARV. H2775A			148.4	20.5	93.8	33.0
MCCORDY 844A	127.8	115.3	147.7	20.1	83.3	13.2
SO. STATES SS785			147.6	20.0	81.4	23.7
DEKALB XL7288			147.3	19.4	86.2	32.4
COKEK 19	122.6	111.4	147.1	18.6	90.0	27.2

TABLE 4.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981
YELLOW HYBRIDS						
PIONEER BRAND 3369A	123.9	95.2	101.3	21.1	84.8	17.2
FUNK'S G4522			99.9	20.5	73.8	14.6
USS AG-CHEM USS 2020		100.4	99.5	26.2	83.8	13.7
GOLDEN HARV. H2680			99.1	21.9	86.2	11.6
MIGRU/NAPH HP470			98.8	19.8	85.2	5.6
MIGRU/NAPH SPX77		103.7	98.5	25.2	87.6	8.1
JACQUES JX247	123.9	101.3	97.7	24.8	82.9	12.7
USS AG-CHEM USS 1010	111.6	91.6	97.5	23.0	78.1	13.4
NORTHROP-KING PX87	115.0	90.2	96.5	23.8	77.1	13.1
P.A.G. SX373	126.3	94.9	96.1	24.6	78.6	30.0
COLBERT 345	115.4	87.8	95.9	25.1	74.8	11.7
FERRY-MORSE GT4022		107.5	95.9	23.0	72.4	19.6
ADLERS 88X	122.0	99.1	95.7	26.5	74.3	13.0
FERRY-MORSE GT3020	113.7	86.9	95.2	21.3	79.5	13.8
CARGILL 921			93.6	20.5	83.3	17.6
SUPER CROST 4337			93.5	20.8	79.0	13.3
COKEK 19A		100.7	92.6	22.0	79.0	17.9
CARGILL 967	130.3	106.0	92.3	23.2	85.2	10.7
FUNK'S G4733			91.5	24.4	84.8	11.4
STEWART SX77	132.1	112.7	89.3	24.6	71.4	16.1
FERRY-MORSE GT3008			89.1	19.7	76.2	18.1
DEKALB XL74A		94.6	89.0	24.4	74.3	11.6
COLBERT 315		98.0	88.7	21.8	81.0	15.3
TROJAN T-1100			88.1	23.3	72.4	13.4
USS AG-CHEM USS 0555A			87.3	20.5	77.6	12.8
DENNIS DS25			85.8	19.3	71.9	16.1
STEWART 7389			84.4	20.7	73.3	8.4
P.A.G. SX397			83.8	19.5	84.8	15.0
DENNIS DS26			83.4	20.4	72.9	11.7
JACQUES JX179			83.1	19.7	79.0	12.6
ADLERS 60X			82.7	24.6	77.6	19.3
DEKALB XL71	123.0	98.7	81.5	25.7	73.8	18.4
COKEK 19	115.1	83.1	80.0	20.6	68.3	15.7
RING AROUND RA1504		79.9	79.6	21.3	76.7	10.4
PIONEER BRAND 3320		86.8	79.0	25.5	74.8	10.3
SO. STATES SS785			78.0	22.5	79.5	7.8
CARGILL 934		77.4	77.6	21.6	78.6	11.3
PREMIER SX632			75.2	19.6	77.6	9.4
FUNK'S G4507A		91.6	70.4	23.8	72.4	11.4
YELLOW AVERAGE	125.2	101.5	104.3	22.7	80.6	12.8
WHITE HYBRIDS						
RING AROUND RA3605W			121.9	23.7	81.0	13.7
PIONEER BRAND 519W		93.8	111.5	22.1	88.1	16.4
ZIMMERMAN Z11W	119.8	105.7	108.2	25.4	79.5	9.7
SO. STATES SS950W	129.0	104.5	107.1	25.2	84.8	20.2
NK/MCHAIR X233W	115.8	94.1	106.8	23.9	93.3	8.7
ASGRUB RX962W	114.3	92.1	106.7	23.3	85.7	16.8
FUNK'S G4747W-1			100.6	24.9	91.4	16.6
RING AROUND 2602W		81.3	100.0	23.5	87.6	17.1
GOLDEN HARV. H2660W	120.1	97.7	98.6	25.1	78.1	10.4
AGRI-GOLD A-6955W			95.6	26.2	87.6	16.2
ZIMMERMAN Z52W	111.2	83.6	96.1	25.7	80.5	10.6
PRINCETON SX910W	113.3	89.8	94.4	24.0	83.3	14.1
DEKALB XL390B	115.4	80.3	89.4	25.3	86.7	7.2
FUNK'S G4787W			89.0	26.9	74.3	13.7
MEACHAM'S MV78		87.4	87.8	25.9	71.4	9.2
ZIMMERMAN Z14W		89.8	81.9	24.7	73.3	12.8
ZIMMERMAN Z54W			74.9	26.2	82.9	7.9
WHITE AVERAGE	117.4	91.9	98.3	24.8	82.9	13.0
GRAND AVERAGE	124.0	99.9	103.4	23.0	80.9	12.8
LSD*			24.0	2.4	10.8	NS
C.V.			17.2	7.7	9.9	56.5

* For the difference between two means in a column to be significant the difference must exceed the LSD.

TABLE 5.—ANNUAL SUMMARY, SEBREE, KY.

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981
YELLOW HYBRIDS						
NORTHRUP-KING PX95	151.5	152.5	176.7	23.7	90.0	1.6
COLBERT 345	159.2	160.4	171.7	22.6	91.9	0.5
PREMIER SX636	154.7	156.4	165.5	21.4	88.6	2.2
JACQUES JX247	153.8	152.2	160.0	19.6	83.8	0.5
PIONEER BRAND 3160		147.7	159.5	22.7	90.0	0.0
VORIS SEEDS V2651	140.6	144.0	158.7	22.2	90.5	1.1
GOLDEN AC. T-E 6998			157.4	21.5	89.0	1.6
ACCR HC8951	154.4	153.6	157.3	22.4	90.5	1.6
MCCUNDY 8150			155.1	21.7	91.0	0.0
FUNK'S G4733			154.7	22.4	95.2	3.0
GUTWEIN 2975		145.6	152.5	21.6	91.0	2.1
PREMIER SX639A			152.2	20.4	85.7	2.2
GOLDEN HARV. H2775A			149.7	21.9	89.5	2.6
SELECT SEED 8900			147.6	19.9	86.2	0.0
COLBERT 340	141.3	133.2	147.5	20.5	87.6	0.0
VORIS SEEDS V2641			146.5	21.8	86.2	1.1
FERRY-MORSE GT3020	134.2	131.4	146.4	18.9	89.0	2.0
COKEK 19A		142.8	145.8	18.8	86.2	1.6
GOLDEN HARV. H2686			145.7	22.5	75.2	1.3
RING AROUND RA1502	147.1	149.2	145.6	20.6	84.6	3.2
DEKALB XL71	135.1	128.1	145.3	18.9	92.4	2.6
FERRY-MORSE GT4022		144.3	144.3	21.0	85.2	1.1
PIONEER BRAND 3369A	144.0	140.9	143.9	17.5	84.8	3.4
PRINCETON SX870	154.2	149.2	143.4	21.1	72.4	1.2
MCCUNDY 844A	147.3	146.3	143.0	20.2	90.5	1.1
AGRI-GOLD A-6900	149.4	145.6	141.1	22.6	87.1	1.6
ZIMMERMAN 224Y	144.4	139.8	140.5	18.9	89.0	1.6
DENNIS DS25	132.6	139.2	139.9	19.4	84.8	1.1
BO-JAC 923	157.3	152.2	139.6	22.2	94.8	2.0
SELECT SEED 9300	145.5	146.3	139.6	19.8	86.2	1.6
SELECT SEED 9400	147.8	141.0	139.4	19.3	90.0	0.0
ADLENS 88Y	145.2	141.7	139.2	21.1	85.7	0.0
SO. STATES SS915	145.8	138.8	139.0	21.5	87.6	7.2
GUTWEIN 2910	135.9	134.1	138.9	20.3	83.3	1.7
STEWART SX77	140.8	144.0	138.9	20.3	80.5	1.4
USS AG-CHEM USS 2020		138.2	138.8	21.8	81.4	0.6
MIGRU/NAPB SPX77		134.3	138.6	21.3	92.4	0.0
SUPEK CROST 7801	137.2	128.5	137.6	22.8	86.7	3.3
COKEK 21			137.3	20.3	82.4	0.6
RUFF'S R334A	136.6	136.1	136.8	19.8	91.4	1.0
O'S GOLD SX5509	145.6	145.4	136.4	21.8	81.0	1.9
DH 7175	138.3	137.2	136.3	18.3	85.2	0.0
GOLDEN HARV. H2688			135.7	22.1	72.4	1.5
P.A.G. SX351		136.6	135.5	19.7	89.0	0.0
SUPEK CROST 6101		140.8	135.1	19.9	83.8	0.0
COLBERT 315		135.1	135.0	19.6	84.3	1.0
COKEK 19	136.1	131.8	134.5	20.8	81.9	0.0
HALDRIDGE RX77	118.8	116.4	133.9	21.6	79.5	1.9
ADLENS 60X			133.8	18.8	81.9	0.6
TROJAN TXS-114	128.6	126.0	133.2	19.7	85.7	0.5
BO-JAC 562			133.0	19.8	86.7	3.2
TROJAN T-1230		146.3	132.4	20.8	85.7	0.0
RING AROUND RA1604		137.2	132.2	21.7	89.0	1.0
SELECT SEED 5050			131.9	18.4	83.8	2.2
PRINCETON SX860		132.1	131.7	22.2	80.5	0.0
DEKALB XL728R			131.1	20.7	83.3	1.2
FUNK'S G4522			131.0	20.8	86.2	0.0
NORTHRUP-KING PX87	144.2	138.5	130.8	21.9	91.4	3.1
MIGRU/NAPB M-0707	147.9	144.9	130.7	20.9	80.5	1.3
DH 9113	149.8	145.4	130.6	20.5	81.0	1.2
USS AG-CHEM USS 1516		133.2	130.6	19.8	84.3	1.7
BO-JAC 452			130.5	18.5	84.8	3.9
GOLDEN AC. T-E 6995	135.0	135.7	130.4	17.2	85.7	1.1
DEKALB XL74A		141.1	130.4	20.1	80.5	2.4
P.A.G. SX333	137.8	131.8	130.4	19.9	85.7	2.8

TABLE 5.—(continued)

	YIELD BU/AC 79-81	YIELD BU/AC 80-81	YIELD BU/AC 1981	AVG % MOIST 1981	AVG % STAND 1981	AVG % TOTAL % LOGGED 1981
YELLOW HYBRIDS						
PIONEER BRAND 3184	131.5	126.9	130.0	18.7	89.5	2.7
STEWART 6973	144.7	142.9	129.6	19.1	79.5	2.3
JACQUES JX180	134.2	133.9	129.5	19.2	89.0	2.2
SELECT SEED 5100	138.5	133.8	128.9	19.5	91.0	2.1
PIONEER BRAND 3320		137.9	128.8	20.9	83.3	1.1
SCOTT SEED LR880			128.7	21.4	84.8	2.8
USS AG-CHEM USS 1010	131.6	128.4	128.3	19.0	89.5	3.2
SO. STATES SS785			128.2	18.6	91.9	1.0
TROJAN TXS-115A		131.9	127.1	18.0	83.3	1.8
NORTHRUP-KING PX83		124.4	126.6	20.0	84.3	3.3
AGRI-GOLD XA-812			126.5	21.2	78.1	1.3
STEWART 7384			124.7	19.4	75.2	1.1
CARGILL 967	129.6	123.3	123.9	18.3	83.3	1.7
SO. STATES SS775	123.5	119.8	123.1	18.7	84.3	2.2
COKEK 22	133.5	133.0	122.9	21.6	82.9	1.7
FUNK'S G4507A		132.3	122.8	17.8	85.7	1.7
ACCO UC7601			122.7	19.8	85.7	0.5
CARGILL 949		129.3	122.1	18.6	82.9	2.3
ADLENS 30X		124.0	122.0	18.6	84.8	1.0
MIGRU/NAPB HP87		142.6	120.6	21.7	83.8	2.3
DENNIS DS26			119.8	20.1	78.6	2.4
FERRY-MORSE GT3006			119.8	18.2	81.0	0.6
MIGRU/NAPB HP470			118.8	18.3	83.8	2.3
O'S GOLD SX5291			117.4	20.5	86.7	2.2
SUPER CROST 4337			116.8	17.9	80.5	0.0
DENNIS DS25			116.5	18.5	78.1	2.5
SCOTT SEED LR101			114.2	19.2	79.5	1.2
P.A.G. SX397			113.7	16.4	91.4	1.5
RING AROUND RA1504		122.2	111.7	17.5	81.9	2.2
TROJAN T-1100			111.5	19.0	71.4	2.5
STEWART 7589			110.2	19.1	77.1	1.9
P.A.G. SX373	119.2	114.0	107.4	20.9	78.1	2.6
PREMIER SX632			104.5	17.5	81.0	1.3
DH 8177			102.9	21.2	58.1	0.0
USS AG-CHEM USS 0555A			102.2	19.8	78.6	6.3
CARGILL 934		104.3	91.3	17.2	84.3	1.1
FERRY-MORSE GT3008			91.1	17.8	83.3	2.2
JACQUES JX179			89.6	17.3	74.3	2.6
CARGILL 921			78.4	16.8	83.8	4.0
YELLOW AVERAGE						
	141.0	137.4	132.4	20.0	84.5	1.7
WHITE HYBRIDS						
ZIMMERMAN 252W	156.3	151.7	170.0	22.2	90.5	2.1
DEKALB XL390H	153.2	149.8	164.6	21.0	86.7	1.7
AGRI-GOLD A-6955W		161.3	160.2	22.2	91.4	1.1
NK/MCNAIR X233W	143.2	147.8	159.9	21.7	89.0	2.2
PRINCETON SX910W	147.2	143.2	156.7	22.9	91.4	0.0
RING AROUND RA3605W			153.3	23.1	85.2	5.0
FUNK'S G4747W-1			152.7	23.0	92.4	1.6
MEACHAM'S MV78		146.5	151.7	22.1	84.8	1.1
ZIMMERMAN 211W	139.1	141.3	151.1	23.0	90.0	2.6
ASGRON HX962W	140.6	137.2	150.7	22.0	93.8	1.5
SO. STATES SS950N	145.4	141.2	149.9	22.7	86.2	3.3
RING AROUND 2602W		137.5	146.7	22.0	90.5	2.1
GOLDEN HARV. H2660W	138.4	139.9	145.3	23.4	88.6	0.6
FUNK'S G4797W			143.2	24.1	88.1	0.5
ZIMMERMAN 214W		144.0	140.7	21.5	84.8	0.0
PIONEER BRAND 519W		139.0	132.3	22.6	85.2	0.0
ZIMMERMAN 254W			129.6	24.0	78.6	2.4
WHITE AVERAGE						
	145.4	144.6	150.5	22.6	88.1	1.6
GRAND AVERAGE						
	141.7	138.6	135.0	20.4	85.0	1.7
LSD*						
C.V.			17.9	1.7	7.0	2.3
			9.8	6.1	6.1	103.9

* For the difference between two means in a column to be significant the difference must exceed the LSD.