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KENTUCKY HYBRID CORN PERFORMANCE TEST-1980

C. G. PONELEIT and K. O. EVANS • PROGRESS REPORT 251

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

LIST OF TABLES

ACKNOWLEDGMENTS

The authors are grateful to the Agriculture Data Center for assistance in summarizing the results presented in this progress report. Also, acknowledgments are made to the following persons who aided in the conduct of this year's performance test:

Dr. Morris Bitzer, Extension Specialist in Grain Crops, Lexington.
Dr. John R. Hartman and Dr. Richard E. Stuckey, Department of Plant Pathology, Lexington.
Dr. James Herbek, Extension Specialist in Grain Crops, West Kentucky Substation, Princeton.
Charles Tutt and John H. James, Research Specialists, West Kentucky Substation, Princeton.
Donnie Davis, Superintendent, West Kentucky Substation, Princeton.
George A. Armstrong, Superintendent, Robinson Substation, Quicksand.
Ted Howard, Extension Agent, Murray.
John Kavanaugh, Extension Agent, Hartford.
William Hendrick, Extension Agent, Henderson.
Marvin Davidson and Daryl Templeman, Extension Agents, Elkton.
Jack Snyder, Extension Agent, Elizabethtown.
Paul Gray, Extension Agent, Frankfort.

TABLE 14.—CORN VIRUS TEST, FRANKFORT, KY., 1980

	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980	VIRUS RATING 1980
YELLOW HYBRIDS					
DEKALB XL7288	54.2	21.3	77.1	9.2	1.0
DH9228	52.0	21.5	72.4	15.3	1.2
BALDRIDGE RX335	48.9	21.5	68.6	24.2	1.3
ZIMMERMAN Z50Y	67.3	21.2	71.4	11.6	1.3
ADLERS 75X	57.4	20.0	80.5	10.5	1.7
JACQUES JX227	72.0	20.0	80.5	26.5	1.7
P.A.G. 266010	68.8	19.6	75.2	10.0	1.7
PIONEER BRAND X7008	61.2	21.8	72.4	15.0	1.7
USS AG-CHEM USS 2315	86.2	20.4	78.6	11.9	1.7
SELECT SEED 4DM75	61.5	20.1	76.2	32.8	1.8
ZIMMERMAN Z31Y	54.8	20.7	73.3	29.6	1.8
ADLERS 755	65.6	21.1	74.8	25.0	2.0
DEKALB XL728	44.1	20.2	57.1	25.9	2.0
MCCURDY 8225	65.9	20.7	82.9	16.4	2.0
PIONEER BRAND 3179	54.9	20.4	62.4	19.7	2.0
PIONEER BRAND 3147	53.4	19.8	78.1	34.6	2.2
SELECT SEED 86	48.3	20.1	72.4	25.0	2.2
AGRI-GOLD A-6700	51.2	21.1	75.7	14.1	2.3
FUNK'S G4525A	52.5	20.5	66.6	25.5	2.3
FUNK'S G4740	46.4	21.8	71.9	17.5	2.3
O'S GOLD TX311	73.9	20.1	91.0	14.4	2.3
SO. STATES SS710	65.0	20.4	68.1	22.5	2.3
ZIMMERMAN Z29Y	68.1	20.5	76.7	25.6	2.3
NORTHRUP-KING PX75	38.0	19.9	71.0	39.3	2.5
TROJAN HDH-116	73.4	19.4	81.4	13.5	2.5
DENNIS H-19	44.6	19.7	71.9	40.9	2.7
ACCU UC9552	52.8	20.2	71.0	33.3	2.8
BO-JAC 69	52.5	21.2	69.0	34.8	2.8
BO-JAC 85	53.2	20.0	79.0	37.2	2.8
CK	35.8	20.5	63.3	30.5	2.8
O'S GOLD SX5255	64.8	19.2	72.9	40.1	2.8
P.A.G. SX17A	66.2	19.7	71.0	34.7	2.8
CARGILL 951	63.5	19.7	68.1	22.4	3.0
GOLDEN HARV. H2705	42.7	21.1	78.1	52.1	3.0
NORTHRUP-KING PX95	54.1	19.8	71.9	26.6	3.0
RUFF'S R444	37.1	18.6	80.5	41.6	3.0
STEWART 6586	43.6	19.8	66.2	21.9	3.0
JACQUES JX187A	42.8	19.7	69.0	49.4	3.2
MCCURDY X890	50.7	20.0	80.0	35.7	3.2
O'S GOLD SX5353	55.2	20.5	62.9	24.8	3.2
GOLDEN AC. T-E 6945	57.4	19.4	75.7	12.8	3.3
GUTWEIN HDH2885	45.7	20.1	67.1	39.2	3.3
BO-JAC XH852	47.4	21.1	68.1	25.4	3.5
DEKALB XL394	36.6	20.6	58.1	38.4	3.5
MCCURDY 7978	42.9	20.1	76.7	50.5	3.8
AGRI-GOLD A-6600	39.4	20.8	63.8	46.4	4.3
O'S GOLD SX3348	31.0	20.4	68.1	55.0	4.3
JACQUES JX247	20.7	20.0	53.3	83.1	6.2
YELLOW AVERAGE	53.5	20.3	72.2	28.9	2.6
WHITE HYBRIDS					
MCNAIR X255W	91.4	20.7	79.0	15.6	1.5
ZIMMERMAN Z52W	55.0	20.1	64.8	21.9	1.5
SO. STATES SS950W	52.1	20.5	77.1	30.3	2.2
PRINCETON SX910W	48.4	20.4	68.1	31.7	3.3
CK	35.6	19.8	62.4	40.0	3.4
AGRI-GOLD A-6955W	33.4	20.9	66.2	42.9	3.7
WHITE AVERAGE	52.7	20.4	69.6	30.6	2.6
GRAND AVERAGE	53.4	20.5	71.9	29.1	2.6
LSD*	31.9	1.9	16.2	18.1	
C.V.	44.6	6.7	16.7	75.6	

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 13.—CORN VIRUS TEST, HENDERSON, KY., 1980

	YIELD BU/AC 79-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
O'S GOLD SX5255		102.7	66.7	16.2	76.7	42.4
RUFF'S R444		93.6	65.4	18.0	87.1	66.1
AGRI-GOLD A-6700			80.1	17.3	69.0	45.9
DEKALB XL394	99.3	106.9	78.1	17.1	75.7	63.1
JACQUES JX187A			76.9	17.0	77.1	70.9
ZIMMERMAN Z50Y		100.1	76.9	18.6	83.8	52.1
FUNK'S G4525A			76.1	15.5	74.8	70.5
DEKALB XL72B3			75.9	18.1	76.7	25.2
AGRI-GOLD A-6600			73.4	15.9	73.3	50.0
SELECT SEED 4DM75		90.9	73.0	16.8	80.0	43.7
ADLERS 755		88.1	72.9	16.2	82.4	57.4
O'S GOLD SX5353	85.5	101.3	71.2	15.5	82.9	71.9
STEWART 6586			70.0	16.1	79.0	60.0
DENNIS M-19		101.3	67.2	15.6	81.0	47.9
PIONEER BRAND 3147	92.8	104.5	67.1	17.7	80.5	47.1
TROJAN MDM-116	76.9	92.2	67.0	17.4	77.1	59.7
DEKALB XL72B	89.1	96.9	67.0	17.3	78.6	43.2
ZIMMERMAN Z51Y			65.9	15.6	73.3	81.7
SO. STATES SS710		97.2	65.9	17.0	80.5	64.1
BO-JAC 85	86.9	108.9	63.8	15.4	76.2	67.0
ZIMMERMAN Z24Y		107.2	63.8	15.9	74.8	50.2
MCCURDY 7978		77.5	61.8	16.2	80.0	50.7
GUTHEIN MDM2885			60.9	16.0	79.0	45.8
ADLERS 73X		78.6	60.7	17.0	81.0	65.1
PIONEER BRAND X7048			60.5	15.4	77.6	55.0
HALDRIDGE RX335		86.0	57.9	15.5	77.6	61.8
JACQUES JX247		96.1	57.8	16.1	76.7	80.9
GOLDEN HARV. H2745		91.3	57.5	17.2	76.2	69.0
USS AG-CHEM USS 2315			56.5	16.5	80.0	54.3
MCCURDY 8225			55.2	16.5	78.1	54.5
SELECT SEED 86			54.5	16.2	81.9	60.8
BO-JAC X9852		84.5	53.4	15.3	76.7	55.3
P.A.G. SX17A	75.1	79.5	52.9	16.1	71.4	67.6
BO-JAC 69			52.7	16.1	73.8	52.5
MCCURDY X890			52.6	15.6	81.0	58.7
PIONEER BRAND 3179	91.5	99.5	52.0	17.4	69.0	64.3
GOLDEN AC. T-E 6945	76.1	75.2	48.6	16.5	73.3	64.4
O'S GOLD SX3340	87.1	87.9	48.3	16.0	79.0	71.8
NORTHRUP-KING PX75			48.3	16.8	71.4	69.2
DM9228			46.0	15.8	78.6	56.8
ACCO UC9532			45.6	14.7	81.9	52.6
CARGILL 951		74.2	44.2	16.2	74.8	75.8
P.A.G. 266010		85.4	40.9	15.5	71.9	76.4
NORTHRUP-KING PX95	80.6	85.8	40.6	15.9	82.4	59.8
JACQUES JX227			37.1	14.7	73.3	55.9
CK	82.3	96.3	35.5	16.0	75.7	72.8
FUNK'S G4740		81.9	30.5	15.3	72.9	72.0
O'S GOLD TX311			29.5	15.4	85.2	57.1
YELLOW AVERAGE	84.4	92.1	59.6	16.3	77.5	59.6
WHITE HYBRIDS						
CK		107.2	74.4	16.6	73.8	62.9
ZIMMERMAN Z52W	91.2	99.3	65.0	16.0	81.9	54.3
MCNAIR X235W		101.2	58.3	16.4	74.3	48.6
AGRI-GOLD A-6955W			55.8	15.9	73.3	63.7
PRINCETON SX910W		89.5	47.3	15.8	72.4	65.6
SO. STATES SS950W			39.4	16.2	77.6	73.9
WHITE AVERAGE	81.2	99.3	56.5	16.1	75.6	61.5
GRAND AVERAGE	84.2	93.0	59.3	16.5	77.3	59.8
LSD*			29.7	1.6	11.0	26.1
C.V.			37.0	7.1	10.5	32.1

* For the difference between two means to be significant the observed difference must exceed the LSD.

Kentucky Hybrid Corn Performance Test 1980

C. G. Poneleit and K. O. Evans

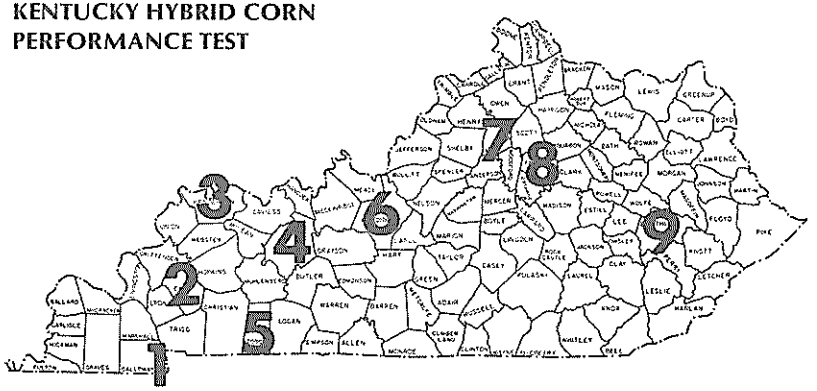
The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. Every effort has been made to conduct the test in an unbiased manner according to accepted agronomic practices.

PRESENTATION OF DATA

Complete 1980 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 1980 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 1981. 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 standing wheat 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 8 lattice design was used at the virus locations.

TABLE 12.—THREE-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1978-1980

	YIELD BU/AC 78-80	AVG % MOIST 78-80	AVG %TOTAL STAND 78-80	% LODGED 78-80
YELLOW HYBRIDS				
BO-JAC 923	141.9	21.2	87.4	11.5
D'S GOLD SX5509	138.6	21.1	86.8	9.7
COLBERT 345	137.8	21.5	86.8	11.4
MIGRO/NAPB M-0707	137.2	20.9	85.8	7.6
NORTHRUP-KING PX95	136.4	22.5	83.8	10.8
PIONEER BRAND 3369A	136.1	19.9	85.9	12.1
HUBLIT 442	135.7	20.7	83.3	8.0
BO-JAC 65	135.1	20.1	85.4	12.4
PIONEER BRAND 3184	135.0	21.0	89.0	7.3
STEWART 6975	134.7	21.1	81.7	9.4
SELECT SEED 5100	134.0	20.0	86.3	10.1
ACCO UC8951	133.7	21.3	85.9	8.9
STEWART SX77	132.9	20.6	81.1	6.2
ZIMMERMAN Z24Y	132.6	20.1	86.6	12.7
ZIMMERMAN Z22Y	131.8	21.0	84.8	7.3
NORTHRUP-KING PX87	130.9	21.6	82.7	7.1
RING AROUND RA1502	130.8	20.7	83.1	6.3
RUFF'S R334A	130.7	20.5	84.8	13.8
MIGRO/NAPB M-7072	130.5	20.6	87.3	10.7
COKER 82	130.1	21.1	84.5	12.3
P.A.G. SX353	129.7	19.7	83.8	12.6
SELECT SEED 86	129.5	20.2	87.0	9.3
P.A.G. SX17A	127.9	19.3	85.6	14.3
STEWART 6575	127.8	21.4	83.3	10.2
DENNIS DS-47	127.2	20.0	81.9	12.4
GOLD TAG 3020	127.0	20.1	82.6	11.5
MCCURDY 7484	126.8	19.9	86.7	13.4
VURIS SEEDS V2601	126.2	19.7	86.2	14.3
TROJAN TXS-114	125.7	19.8	85.0	12.8
GOLDEN AC. T-E 6995A	124.6	19.8	84.5	10.5
GOLDEN AC. T-E 6995	124.1	19.9	83.2	11.2
PREMIER SX639	124.0	21.3	82.1	10.3
COKER 16	122.2	20.0	87.2	9.7
ASGROW RX99	121.1	19.7	84.2	11.9
SO.STATES SS775	117.9	20.3	87.4	9.8
TROJAN TXS-119	116.6	20.9	81.1	14.0
YELLOW AVERAGE	130.1	20.5	84.9	10.6
WHITE HYBRIDS				
SO. STATES SS950W	127.7	22.4	85.3	14.2
FUNK'S G4747W	125.9	22.7	86.0	15.0
ZIMMERMAN Z11W	125.5	22.8	85.1	13.8
ZIMMERMAN Z52W	125.2	22.5	85.0	15.0
PRINCETON SX910W	123.8	22.7	84.8	17.0
GOLDEN HARV. H2660W	119.3	22.6	80.0	15.6
WHITE AVERAGE	124.6	22.6	84.4	15.3
GRAND AVERAGE	129.3	20.8	84.8	11.3

TABLE 11.—TWO-YEAR SUMMARY, ALL NON-VIRUS LOCATIONS, 1979-1980

	YIELD BU/AC 79-80	AVG % MOIST 79-80	AVG %TOTAL STAND 79-80	% LODGED 79-80
YELLOW HYBRIDS				
80-JAC 923	150.3	20.4	89.4	12.0
AGRI-GOLD A-6900	148.2	20.9	85.8	9.8
ADLERS 88X	147.9	20.2	86.3	9.6
MCCURDY 7748	145.9	20.3	86.9	11.5
O'S GOLD SX5509	145.6	20.1	87.2	9.0
DH9113	145.3	20.0	85.3	9.5
SELECT SEED 9300	145.0	20.0	84.8	12.9
JACQUES JX247	143.8	20.2	84.9	12.8
PRINCETON SX870	143.5	19.9	84.5	11.5
CARGILL 967	143.3	18.9	88.3	15.1
HUBLIT 442	141.6	20.0	86.6	9.0
PREMIER SX636	141.0	20.6	86.9	9.9
SELECT SEED 8400	140.6	19.0	87.2	16.2
VORIS SEEDS V2651	140.0	19.8	87.9	18.5
MIGRO/NAPB M-0707	139.9	19.9	87.1	9.2
COLBERT 340	138.9	20.1	87.1	8.1
PIONEER BRAND 3369A	138.5	19.3	86.6	12.5
STEWART 6973	138.4	20.2	83.3	9.8
COLBERT 345	138.1	20.5	86.3	12.0
SUPER CROST 78014	137.9	20.2	82.3	12.0
ADI707	137.2	20.0	84.9	14.0
NORTHRUP-KING PX95	137.2	21.6	83.5	12.2
SELECT SEED 5100	137.0	19.2	88.0	11.1
GUTHEIM 2910	136.9	20.3	79.6	11.2
RING AROUND RA1502	136.9	19.9	86.2	7.8
ACCU UCB951	136.8	20.5	87.5	9.6
80-JAC 83	136.4	19.5	87.1	14.9
P.A.G. SX555	135.6	19.1	85.2	15.9
P.A.G. SX573	135.0	20.6	85.9	7.7
PIONEER BRAND 3184	135.0	19.9	89.1	7.9
DH7175	135.0	19.2	85.6	10.9
COKER 22	134.4	20.2	84.2	15.2
DEKALB XL71	134.2	19.8	86.6	7.7
ZIMMERMAN Z22Y	133.6	19.9	85.1	8.1
ASGROW RX909	133.5	20.6	86.5	14.1
STEWART SX77	132.8	20.0	85.1	7.5
ZIMMERMAN Z24Y	132.6	19.3	87.2	15.7
NORTHRUP-KING PX87	132.4	20.9	83.5	7.9
FUNK'S G4606	132.3	19.1	83.7	11.6
COKER 19	131.6	19.3	83.3	12.3
MIGRO/NAPB M-7072	131.3	20.1	87.0	12.5
DENNIS DS42	130.7	18.9	78.0	5.5
ADLERS 61X	130.6	19.0	84.8	11.2
TROJAN TXS-114	130.2	19.1	86.0	15.9
SELECT SEED 86	129.5	19.6	87.0	11.7
MCCURDY 7484	129.0	19.1	88.0	17.3
P.A.G. SX17A	128.7	18.6	86.0	16.3
STEWART 6575	128.3	20.4	82.0	9.3
SO. STATES SS915	128.2	20.4	85.8	12.4
DENNIS DS-37	127.9	19.4	82.2	14.9
RUFF'S R334A	127.4	19.8	83.8	16.8
GOLD TAG 3020	127.3	19.3	82.0	13.7
COKER 16	125.1	19.3	87.4	10.0
GOLDEN AC. T-E 6995	124.5	19.4	81.5	10.3
GOLDEN AC. T-E 6995A	124.4	19.0	85.6	11.0
VORIS SEEDS V2601	124.0	18.9	86.7	16.7
USS AG-CHEM USS 1010	123.8	18.9	80.4	11.3
PREMIER SX639	123.2	20.2	81.2	10.3
JACQUES JX180	122.6	19.2	81.0	13.0
PIONEER BRAND 3382	122.5	19.2	82.0	6.0
SO.STATES SS775	122.0	19.4	88.0	9.9
ASGROW RX98	117.6	19.3	85.1	12.5
TROJAN TXS-119	117.4	20.0	82.5	18.2
BALDRIDGE RX77	116.1	19.5	84.2	13.2
BALDRIDGE RX24	108.2	18.7	78.9	14.7
YELLOW AVERAGE	133.0	19.8	85.1	11.7
WHITE HYBRIDS				
DEKALB XL5908	137.2	20.6	81.2	15.6
SO. STATES SS950W	135.1	21.5	86.0	16.5
PRINCETON SX910W	128.4	22.0	85.2	19.5
ASGROW RX962W	127.6	21.9	82.6	18.3
FUNK'S G4747W	126.9	21.8	86.0	17.6
ZIMMERMAN Z11W	125.6	21.8	84.4	15.9
MCNAIR X235W	125.5	21.6	75.3	16.7
ZIMMERMAN Z52W	125.0	21.7	85.2	17.0
GOLDEN HARV. H2660W	124.7	21.6	81.6	16.5
WHITE AVERAGE	128.5	21.6	83.0	17.1
GRAND AVERAGE	132.8	20.0	84.8	12.4

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 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. No virus ratings were obtained at Henderson

because of the low incidence of infestation.

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 14 are on a 0 to 9 scale. A rating of 0 means that the plants showed no virus symptoms while a rating of 9 means that nearly all plants had very severe symptoms and would likely produce no grain. Intermediate values represent degrees of virus resistance or susceptibility.

Four virus-susceptible check hybrids 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 25 and harvested October 1 and 2. Precipitation on the day of planting was 0.5 inches. Precipitation amounts from May through September were 2.8, 3.7, 3.3, 0.7, and 3.9 inches, respectively. Weed control was good. There were no apparent disease or insect problems. Only two replications were harvested for yield due to stand losses caused by a planter malfunction.

PRINCETON

The Princeton test was planted on May 13 and harvested on October 6 and 7. Precipitation from May 13 to May 31 was 3.9 inches. During June only 0.8 inches was recorded for June 1-28 while 2.7 inches fell on June 29. Subsequent precipitation amounts were 3.2 for July, 1.9 for August and 5.7 for September. Weed control was only fair. European and Southwestern corn borers caused much of the lodging problems associated with the test.

TABLE 10.—(continued)

	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %TJTAL STAND 1980	% LODGED 1980
YELLOW HYBRIDS				
MIGRO/NAPB M-7072	109.8	18.6	87.6	15.5
PIONEER BRAND 3184	109.8	18.2	88.5	4.1
USS AG-CHEM USS 1010	109.4	16.9	84.4	12.2
JACQUES JX180	109.1	17.5	85.4	15.5
GUTWEIN 2910	108.9	18.6	78.7	12.6
DEKALB XL70	108.7	17.4	86.6	21.3
STEWART 6575	108.6	18.5	81.5	7.2
P.A.G. SX575	108.2	18.2	88.7	6.3
HOBLIT 455	108.0	17.9	78.5	8.0
SELECT SEED 86	107.4	17.8	86.9	11.5
TROJAN TXS-114	107.3	17.5	84.2	15.8
RING AROUND RA1304	106.6	16.6	88.8	11.7
COLBERT 345	106.6	18.4	88.7	15.2
RUFF'S R334A	106.1	18.2	84.4	15.9
SUPER CRUST 5440	105.8	17.7	85.4	9.6
P.A.G. SX17A	105.8	16.8	87.6	17.6
MCCURDY 7484	104.6	17.4	86.9	19.5
SO. STATES SS915	104.5	18.9	83.7	9.8
PIONEER BRAND 3382	104.1	18.0	82.5	9.1
DH7190	103.1	17.6	87.5	15.9
RUFF'S R300A	103.1	17.3	82.8	11.3
SO. STATES SS710	103.0	17.0	86.9	7.3
CARGILL 934	102.6	17.2	83.7	12.8
TROJAN TXS-119	102.3	17.8	85.2	19.6
GOLDEN AC. T-E 6995	102.2	16.3	84.4	10.2
GOLD TAG 3020	102.2	17.8	81.5	11.5
O'S GOLD SX5500AB	102.0	17.7	85.8	22.1
ACCO UC7660	101.6	17.4	88.2	14.6
NORTHRUP-KING PX83	101.1	17.7	84.9	9.6
PRINCETON SX860	100.9	16.1	86.4	5.6
COKER 16	100.3	17.4	87.8	10.4
SO.STATES SS775	100.2	17.5	88.7	11.5
VORIS SEEDS V2601	99.4	17.2	88.4	17.0
GOLDEN AC. T-E 6995A	97.1	17.1	88.1	10.7
PREMIER SX639	95.5	18.5	80.6	9.2
RUFF'S R302	95.0	17.9	86.0	4.3
ASGROW RX98	93.4	17.6	86.4	12.6
BALDRIDGE RX24	92.9	17.1	81.4	12.0
GOLD TAG 3025	92.1	17.2	81.7	15.7
BALDRIDGE RX77	89.1	17.3	85.3	10.2
STEWART 6586	70.4	16.5	76.4	27.4
YELLOW AVERAGE	111.8	17.9	86.0	12.7
WHITE HYBRIDS				
ZIMMERMAN Z14W	120.9	19.5	90.7	15.5
PRINCETON SX910W	111.1	20.1	84.0	11.2
SO. STATES SS950W	111.0	19.2	88.1	20.4
MEACHAM'S MV76	110.1	19.5	88.7	14.6
PIONEER BRAND 519W	109.1	17.5	88.1	10.1
AGRI-GOLD A-6955W	109.0	19.8	88.9	13.2
DEKALB XL3903	108.2	18.6	80.1	15.3
ZIMMERMAN Z11W	108.0	20.1	87.4	14.6
ASGROW RX962W	107.8	20.1	84.7	16.1
MCNAIR X233W	107.3	19.7	78.5	15.8
MEACHAM'S MV88	106.7	19.7	80.7	15.9
FUNK'S G4747W	105.4	19.8	91.1	16.1
GOLDEN HARV. H2660W	104.9	19.4	84.9	16.3
RING AROUND RA2602W	101.4	19.6	85.8	15.8
ZIMMERMAN Z52W	100.3	19.6	86.0	17.5
WHITE AVERAGE	108.1	19.5	85.8	15.1
GRAND AVERAGE	111.3	18.1	86.0	13.0

TABLE 10.—ANNUAL SUMMARY, ALL NON-VIRUS LOCATIONS, 1980

	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS				
MIGRJ/NAP3 HP87	133.3	18.1	90.0	17.1
D'S GOLD SX5509	130.9	18.2	89.9	9.9
TROJAN T-1230	130.5	18.2	89.1	10.9
AGRI-GOLD A-6900	130.4	19.3	88.0	9.5
BO-JAC 925	128.6	18.7	90.3	12.6
DENNIS DS42	128.3	17.5	86.7	9.8
MCCURDY 7748	128.2	18.3	89.3	13.1
SELECT SEED 9300	125.9	18.4	83.6	12.0
PREMIER SX636	124.9	18.8	88.7	12.1
PIONEER BRAND 3160	123.9	18.3	87.9	10.3
GOLD TAG 4022	123.6	18.1	87.3	14.2
DH9113	123.4	17.8	83.5	8.7
ADLERS 88X	123.2	18.3	87.6	7.1
JACQUES JX247	123.0	18.2	85.9	14.9
PREMIER SX691	122.5	18.2	85.1	8.3
HUBLIT 442	122.5	18.2	88.7	10.5
USS AG-CHEM USS 2020	121.7	18.4	84.1	9.7
PRINCETON SX870	121.5	18.3	86.3	9.6
STEWART SX77	121.0	18.0	87.0	7.1
RING AROUND RA1502	121.0	18.5	89.6	7.8
BO-JAC 83	120.7	17.5	88.9	14.4
ASGROW RX909	120.5	18.4	90.2	15.0
USS AG-CHEM USS 1516	119.9	17.9	88.0	32.9
ACCU UC8951	119.3	18.9	88.6	10.9
DEKALB XL74A	118.9	18.3	84.4	8.2
VORIS SEEDS V2651	118.8	18.2	89.2	24.5
MIGRJ/NAP3 M-0707	118.4	18.2	85.0	9.2
COKER 22	118.2	18.2	85.5	18.9
RING AROUND RA1604	118.2	18.6	87.3	9.1
SUPER CROST 5101	118.2	17.6	88.7	10.5
SELECT SEED 9400	117.9	17.4	86.5	14.1
NORTHRUP-KING PX78	117.7	17.2	88.2	12.5
CARGILL 967	117.2	17.1	87.0	13.0
CARGILL 949	116.1	17.1	83.4	14.4
JACQUES JX187A	115.9	17.0	88.6	15.0
DENNIS DS-37	115.7	18.0	86.8	15.7
SELECT SEED 5100	115.2	17.6	87.6	12.1
DH7175	115.1	17.7	86.6	10.0
P.A.G. SX353	115.0	17.5	86.5	20.1
STEWART 5473	114.9	18.4	84.1	11.3
MICRJ/NAP3 SPX77	114.5	17.9	86.8	16.8
P.A.G. SX551	114.4	17.1	85.7	11.5
COLBERT 315	114.4	17.3	91.3	15.6
FUNK'S G4348-2	114.1	18.9	80.0	10.2
ZIMMERMAN Z29Y	113.9	17.5	89.2	15.2
AD1707	113.7	18.0	85.0	17.5
PIONEER BRAND 3320	113.1	17.9	90.9	11.5
NORTHRUP-KING PX87	113.1	18.7	84.1	8.5
GUTHEIN 2575	112.8	18.5	81.9	12.6
PIONEER BRAND 3369A	112.3	17.5	86.2	11.9
AD1705	112.3	18.2	79.6	14.0
AGRI-GOLD A-6700	111.8	17.5	87.8	12.2
DEKALB XL71	111.6	18.0	88.0	9.0
FUNK'S G4606	111.6	17.4	84.0	15.1
ZIMMERMAN Z22Y	111.5	18.2	87.0	9.0
ADLERS 30X	111.4	17.0	88.6	9.6
COKER 194	111.4	18.8	85.4	11.4
COKER 19	111.3	17.6	82.5	12.8
COLBERT 340	110.8	18.6	85.9	9.0
FUNK'S G4507A	110.7	17.7	89.8	15.6
ADLERS 61X	110.3	17.4	86.0	9.4
TROJAN TX8-115A	110.3	17.6	86.2	11.1
BO-JAC 950	110.1	18.0	86.7	17.5
NORTHRUP-KING PX95	110.0	18.8	83.8	17.7
SUPER CROST 78014	109.9	18.7	80.1	13.3

HARTFORD

The Hartford test was planted on May 5 and harvested on October 10 and 13. Precipitation amounts recorded from May through September were 4.9, 5.1, 4.2, 1.9, and 1.2 inches, respectively. Weed control was good. Disease and insect problems were minimal.

HENDERSON

The Henderson test was planted on May 12 and harvested on October 14. Precipitation was not recorded at regular intervals during the growing season. However, at harvest a rain gauge at the test site indicated that at least 7.5 inches of precipitation had fallen in the test area. Weed control was poor. Winds seemed to have caused most of the lodging. Additional lodging may have been associated with the presence of virus diseases.

ELIZABETHTOWN

The Elizabethtown test was planted on May 2 and harvested on October 15 and 16. This test was planted no-till in standing wheat. Precipitation amounts recorded for May through September were 4.9, 3.2, 6.8, 2.7, and 0.7 inches, respectively. Weed control was good, with the exception of climbing milkweed. The vines caused lodging and provided heavy competition for the corn plants. Disease and insect problems were minimal.

ELKTON

The Elkton test was planted on April 24 and harvested on October 8 and 9. Precipitation following planting in April was 0.7 inches. Precipitation amounts recorded from May through September were 3.8, 1.3, 2.0, 0.0, and 3.4 inches, respectively. Volunteer corn on the test site made cultivation and hoeing of the test necessary. Weed control was only fair. Disease and insect problems were minimal.

QUICKSAND

The Quicksand test was planted on May 7 and harvested on October 21 and 22. Precipitation amounts recorded from May through October were 2.7, 0.6, 6.1, 2.4, 3.5, and 1.7 inches, respectively. Weed control was poor. There were some leaf diseases present. Maize Dwarf Mosaic Virus was observed in corn plants near areas of Johnsongrass. Other diseases and insect problems were minimal.

FRANKFORT

The Frankfort test was planted on June 3 and harvested on November 5 and 6. Precipitation amounts recorded from June through October were 2.9, 6.4, 5.6, 0.7, and 0.4 inches, respectively. Weed control was good on broadleaf weeds and grasses, except Johnsongrass. The test was hoed and cultivated twice for suppression of Johnsongrass.

LEXINGTON

The Lexington test was planted on May 9 and harvested on October 30 and 31. Precipitation amounts recorded May through October were 2.0, 2.3, 7.8, 3.3, 2.7, and 2.3 inches, respectively. Weed problems were minimal, with the exception of climbing milkweed. Broadleaf weeds were sprayed with a postemergence herbicide. Disease and insect problems were minimal.

TABLE 9.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
NORTHRUP-KING PX83			94.0	20.6	85.7	4.6
PIONEER BRAND 3184	135.7	128.2	93.6	21.7	84.8	1.1
COKER 19A			93.5	21.0	87.6	15.2
RING AROUND RA1504			93.0	17.4	89.0	28.3
OH9113		133.7	92.4	20.4	78.6	9.9
JACQUES JX180		112.0	92.0	19.4	80.0	40.7
MIGRO/NAPB M-0707	130.9	126.3	91.9	19.5	77.6	9.6
ADI703			91.5	19.5	78.6	35.3
PIONEER BRAND 3160			91.3	19.5	87.1	4.9
MCCURDY 7484	120.6	109.2	90.2	17.9	88.1	43.5
TROJAN TXS-115A			90.1	19.8	84.3	13.2
BALDRIDGE RX24		103.8	88.9	18.3	80.5	10.1
PIONEER BRAND 3382		105.0	88.1	19.8	82.9	9.6
SO. STATES SS710			88.0	17.2	86.2	2.7
RUFF'S R334A	123.6	111.9	87.5	19.6	79.5	20.4
ADLERS 61X		112.9	87.4	19.0	81.9	8.0
VORIS SEEDS V2651		117.2	87.0	22.5	93.8	63.0
ADLERS 30X			86.9	18.6	82.9	25.5
STEWART SX77	121.9	105.3	86.5	20.8	78.1	3.2
ZIMMERMAN Z24Y	132.0	118.6	85.8	18.7	88.1	14.7
USS AG-CHEM USS 1516			85.2	19.9	82.9	64.9
ACCO UC7660			84.4	18.2	90.5	7.9
RUFF'S R300A			84.1	18.4	81.0	12.8
SO.STATES SS775	113.9	107.4	82.9	19.2	83.8	29.2
GOLD TAG 5020	134.0	122.9	82.1	19.1	72.4	32.3
COKER 16	119.6	111.7	82.0	19.0	83.8	12.5
P.A.G. SX17A	122.9	120.2	78.9	18.2	80.5	24.9
BALDRIDGE RX77		108.4	78.4	20.1	78.1	8.5
ADI707		121.1	77.7	20.5	73.3	16.9
O'S GOLD SX5500AB			77.4	18.9	83.3	34.7
FUNK'S G4507A			75.7	20.8	85.7	17.3
PREMIER SX639	127.2	115.4	75.7	21.0	73.3	16.9
GOLDEN AC. T-E 6995A	127.6	115.4	74.9	18.6	88.1	13.4
ASGROW RX98	100.8	87.9	74.0	19.3	81.9	24.3
PRINCETON SX860			72.1	20.3	82.4	22.8
TROJAN TXS-119	96.4	90.4	66.5	19.7	79.5	42.7
GOLD TAG 3025			65.2	18.0	74.3	31.8
SELECT SEED 86	118.9	105.4	64.8	19.2	91.9	15.6
VORIS SEEDS V2601	113.4	97.8	64.5	17.7	81.0	52.5
RUFF'S R302			64.1	20.6	81.4	1.7
STEWART 6586			61.2	18.0	77.1	72.9
YELLOW AVERAGE	129.1	122.3	96.7	19.8	84.2	16.5
WHITE HYBRIDS						
ZIMMERMAN Z14W			122.9	21.8	94.8	3.5
ZIMMERMAN Z11W	143.3	137.5	112.8	21.3	90.5	17.9
MEACHAM'S MV78			112.6	20.7	89.0	5.3
MCNAIR X233W		140.5	110.3	22.0	77.6	11.0
AGRI-GOLD A-6955W			109.3	21.9	92.9	5.2
PRINCETON SX910W	147.0	136.0	109.2	21.0	86.7	6.4
ZIMMERMAN Z52W	133.4	125.2	108.7	21.4	95.7	9.5
FUNK'S G4747W	134.6	122.9	108.1	20.9	96.7	6.4
ASGROW RX962W		124.0	108.1	21.5	86.7	3.4
GOLDEN HARV. H2660W	133.5	128.2	106.5	20.8	81.9	12.7
RING AROUND RA2602W			106.0	21.1	88.1	4.8
PIONEER BRAND 519W			105.8	18.0	89.0	5.5
MEACHAM'S MV88			105.6	21.4	84.3	3.5
SO. STATES SS950W	133.4	130.9	100.6	22.2	86.2	5.1
DEKALB XL3908		137.9	93.6	19.5	80.5	6.7
WHITE AVERAGE	137.5	131.5	108.0	21.0	88.0	7.1
GRAND AVERAGE	130.3	123.4	98.1	20.0	84.7	15.3
LSD*			24.4	1.5	9.5	19.0
C.V.			18.5	5.6	8.3	91.7

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 9.—ANNUAL SUMMARY, QUICKSAND, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
ZIMMERMAN Z22Y	145.0	145.2	131.4	20.9	88.6	8.5
GOLD TAG 4022			123.1	21.6	86.7	10.0
80-JAC 923	144.2	146.6	122.1	22.4	91.0	6.9
MIGRO/NAPB HP87			121.4	20.7	88.1	11.7
USS AG-CHEM USS 2020			121.2	20.6	78.1	7.3
MCCUNDY 7748		131.0	121.0	20.9	93.3	18.7
AGRI-GOLD A-6700			119.1	19.5	89.5	5.9
AGRI-GOLD A-6900		139.4	116.7	22.6	85.2	5.6
DENNIS DS42		120.4	115.9	19.4	85.7	3.9
CARGILL 949			114.8	18.6	78.6	38.9
PREMIER SX636		125.7	114.5	19.6	90.5	10.8
COKER 22	131.8	124.8	113.4	21.7	88.1	7.6
MIGRO/NAPB M-7072	137.2	130.3	113.0	21.0	85.2	10.6
COLBERT 345	145.0	133.5	112.7	19.7	90.0	16.6
SUPER CROST 78014		135.2	112.1	20.7	83.8	8.6
COLBERT 340		141.0	111.8	20.5	87.1	7.6
80-JAC 85	153.9	137.7	110.7	19.2	89.0	23.4
DH7175		134.6	109.5	19.3	86.2	14.8
RING AROUND RA1502	131.8	128.1	109.4	20.8	84.3	2.9
PIONEER BRAND 3320			108.8	19.6	87.6	10.5
DH7190			107.5	19.4	86.2	4.5
COKER 19		128.5	107.2	19.4	80.0	19.4
TROJAN TXS-114	127.9	120.2	106.7	19.6	87.1	22.2
SELECT SEED 9300		133.8	106.6	21.8	81.0	4.7
FUNK'S G4606		126.5	105.9	19.2	84.3	25.2
TROJAN T-1230			105.8	19.6	85.7	10.1
PIONEER BRAND 3369A	138.2	138.0	105.7	18.0	89.0	12.4
O'S GOLD SX5509	127.6	122.0	105.7	21.4	85.2	5.6
NORTHRUP-KING PX95	138.5	130.3	105.6	21.0	88.1	12.4
HOBLIT 442	132.7	129.9	105.3	18.7	87.6	24.4
SELECT SEED 5100	141.9	129.2	105.3	19.7	81.4	24.9
GUTWEIN 2875			105.2	20.4	83.3	9.9
DEKALB XL74A			104.8	20.2	81.9	9.5
USS AG-CHEM USS 1010		120.6	104.2	18.8	85.2	38.1
ACCO UCB951	139.5	126.6	104.0	20.8	85.2	8.4
HOBLIT 455			103.5	19.5	80.5	3.0
PREMIER SX691			103.1	20.3	82.9	10.2
SELECT SEED 9400		131.4	102.6	18.9	84.8	15.3
COLBERT 315			102.4	19.6	87.6	9.9
PRINCETON SX870		122.7	102.3	20.5	86.2	5.4
P.A.G. SX351			102.1	19.3	81.4	9.2
NORTHRUP-KING PX75			102.0	19.8	87.1	15.4
ASGROW RX909		110.1	101.7	19.7	93.3	45.9
JACQUES JX247		130.4	101.4	20.2	82.9	8.1
MICRO/NAPB SPX77			101.3	19.0	86.2	24.7
P.A.G. SX373		124.5	100.8	21.1	89.0	5.3
GOLDEN AC. T-E 6995	134.4	124.2	100.7	20.2	86.2	8.3
DENNIS DS-37	136.5	119.4	100.2	20.0	83.3	19.7
JACQUES JX187A			99.6	18.9	88.1	14.6
DEKALB XL70			99.1	19.0	87.1	5.1
SUPER CROST 6101			99.0	18.9	87.1	28.3
FUNK'S G4848-2			98.4	20.4	82.9	14.0
DEKALB XL71		129.6	97.8	20.6	83.3	2.4
SO. STATES SS915		106.4	97.7	20.9	85.7	9.0
STEWART 6973	133.3	118.1	97.6	20.1	85.2	5.1
ADLERS 88X		139.0	97.5	20.5	81.0	2.5
SUPER CROST 5440			96.7	19.7	81.9	7.0
CARGILL 934			96.5	18.4	80.0	10.5
STEWART 6573	130.9	115.8	96.3	21.5	82.4	10.3
NORTHRUP-KING PX87	125.4	114.8	95.4	20.4	80.0	5.5
P.A.G. SX333	132.2	130.6	95.4	19.9	82.4	19.8
CARGILL 967		133.9	95.4	18.6	81.0	12.8
80-JAC 950			95.3	19.1	93.8	22.9
RING AROUND RA1604			95.1	20.3	81.0	6.4
GUTWEIN 2910		132.6	94.6	21.4	82.4	10.9

TABLE 1.—HYBRIDS TESTED IN 1980

	HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
A.C.C.O.	UC7660	A	Yellow	2X	A.C.C.O. Seed, 515 River
	UC8951	A	Yellow	2X	Avenue, North, Belmond, IA
	UC9532	B	Yellow	2X	50421
A.D.I. Dist.	A.D.I. 703	A	Yellow	3X	A.D.I. Dist., Inc.
	A.D.I. 707	A	Yellow	2X	P. O. Box 643
					Carmel, IN 46032
Adler's	30X	A	Yellow	2X	Adler's Seed Inc.
	61X	A	Yellow	2X	Route #1
	73X	B	Yellow	2X	Sharpsville, IN 46068
	88X	A	Yellow	2X	
	753	B	Yellow	3X	
Agri-Gold	A-6600	B	Yellow	2X	Agri-Gold Seed
	A-6700	AB	Yellow	2X	6888 Woodland Drive
	A-6900	A	Yellow	2X	Newburg, IN 47630
	A-6955W	AB	White	2X	
Asgrow	RX98	A	Yellow	2X	Asgrow Seed Co.
	RX909	A	Yellow	2X	P. O. Box 1059
	RX962W	A	White	2X	9001 Hickman Rd.
					Des Moines, IA 50053
Baldridge	BX24	A	Yellow	3X (Mod)	Baldridge Seed Co.
	BX77	A	Yellow	3X (Mod)	P. O. Box 82
	BX335	B	Yellow	3X	Cherry Fork, OH 45618
Bo-Jac	69	B	Yellow	2X	Bo-Jac Hybrid Corn Co.
	83	AB	Yellow	2X (Mod)	R. R. #2
	923	A	Yellow	2X	Mount Pulaski, IL 62548
	950	A	Yellow	2X	
	XB832	B	Yellow	2X	
Cargill	934	A	Yellow	2X	Cargill Seeds
	949	A	Yellow	2X	P.O. Box 9480
	951	B	Yellow	2X	Dept. 16
	967	A	Yellow	2X	Minneapolis, MN 55440
Coker	16	A	Yellow	2X (Mod)	Coker's Pedigreed Seed Co.
	19	A	Yellow	2X	P. O. Box 340
	19A	A	Yellow	2X (Mod)	Hartsville, SC 29550
	22	A	Yellow	3X	

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

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

TABLE 1.—(continued)

	HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
Colbert	315	A	Yellow	2X	Colbert Farms
	340	A	Yellow	2X	R. R. #2
	345	A	Yellow	2X	Washington, IN 47501
D & H	DH7175	A	Yellow	2X	D & H, Inc.
	DH7190	A	Yellow	2X	P. O. Box 623
	DH9113	A	Yellow	2X	Robinson, IL 62454
	DH9228	B	Yellow	2X (Mod)	
DeKalb	XL70	A	Yellow	2X	DeKalb Ag. Research
	XL71	A	Yellow	2X	1536 Dunwoody, Village Pk.
	XL72b	B	Yellow	2X	Suite 240
	XL72bb	B	Yellow	2X	Atlanta, GA 30338
	XL74A	A	Yellow	2X (Mod)	
	XL390B	A	White	3X	
	XL394	B	Yellow	3X	
Dennis	DS-37	A	Yellow	2X	Dennis Hybrid Co.
	DS-42	A	Yellow	2X	P. O. Box 487
	N-19	B	Yellow	2X	Windfall, IN 46076
Funk's	G4507A	A	Yellow	2X (Mod)	Funk's Seed International
	G4525A	B	Yellow	2X (Mod)	1300 Washington Street
	G4606	A	Yellow	2X (Mod)	Bloomington, IL 61701
	G4740	B	Yellow	2X (Mod)	
	G4747W	A	White	Sp X	
	G4848-2	A	Yellow	2X (Mod)	
Golden Acres	T-E 6945	B	Yellow	2X (Mod)	Taylor-Evans Seed Co.
	T-E 6995	A	Yellow	2X	P. O. Box 68
	T-E 6995A	A	Yellow	2X	Tulia, TX 79088
Golden Harvest	H-2660W	A	White	2X	Columbiana Seed Co.
	H-2745	B	Yellow	3X	Eldred, IL 62027
Gold Tag	3020	A	Yellow	2X	Perry Morse Seeds
	3025	A	Yellow	3X	P. O. Box 24
	4022	A	Yellow	2X	Genesee, IL 61254
Gutwein	2875	A	Yellow	2X	Fred Gutwein & Sons, Inc.
	2910	A	Yellow	2X	R. R. #1, Box 40
	MDH 2885	B	Yellow	2X	Francesville, IN 47946
Hoblit	442	A	Yellow	2X	Hoblit Seed Co.
	455	A	Yellow	2X	Atlanta, IL 61723
Jacques	JX180	A	Yellow	2X	Jacques Seed Co.
	JX187A	AB	Yellow	2X	Prescott, WI 54021
	JX227	B	Yellow	2X	
	JX247	AB	Yellow	2X	

TABLE 8.—(continued)

	YIELD 80/AC 78-80	YIELD 80/AC 1980	YIELD AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS					
JACQUES JX187A		120.8	17.0	96.2	10.5
DH71/5	132.0	120.7	17.7	91.9	7.7
ADLER'S 504		120.4	17.8	99.5	6.2
NORTHRUP-KING PX83		120.2	16.8	97.6	8.5
D'S GOLD SX5500A3		119.7	15.5	96.7	15.5
TROJAN TX5-119	123.6	119.2	17.6	91.0	26.7
NORTHRUP-KING PX95	139.9	119.0	19.3	89.0	5.9
PREMIER SX639	125.9	118.0	19.7	87.6	8.1
SELECT SEED 5100	118.0	117.9	18.3	89.0	36.3
VORIS SEEDS V2601	120.0	117.1	17.2	88.6	12.2
GOLD TAG 3020	129.5	117.1	16.7	97.6	5.4
STEWART 6573	120.6	116.5	18.3	91.0	3.5
FUNK'S G4606	132.3	116.4	18.7	91.9	3.0
RUFF'S R3004	126.9	115.0	18.7	91.4	10.3
COKER 19		114.1	17.2	89.5	18.0
RUFF'S R3004	126.8	114.0	18.2	88.1	14.1
COKER 19A		113.7	17.8	88.6	4.8
RUFF'S R302	128.6	115.6	17.0	95.7	6.5
CULBERT 945	141.6	115.0	18.0	91.0	6.3
ASGROW RX98	132.7	111.7	16.8	91.9	7.8
GOLDEN AC. T-E 6995A	125.3	111.4	16.7	99.0	5.7
BALDRIDGE HX77		111.1	17.9	91.4	4.8
USS AG-CHEM USS 1010		110.1	17.2	92.4	10.5
RING AROUND RA1504	128.7	110.2	15.4	96.7	7.9
DEKALB XL71	132.8	109.8	16.8	97.1	4.4
FUNK'S G4507A		109.7	17.1	94.3	17.9
SUPER CROST 6101		109.6	16.7	94.8	3.6
TROJAN TX5-115A		109.3	17.9	96.7	8.9
ZIMMERMAN Z22Y	129.2	108.3	17.7	92.9	5.6
ACCU UC8951	122.8	106.9	18.3	92.4	13.8
PRINCETON SX80		104.1	18.0	96.2	2.5
SUPER CROST 5040		103.3	17.9	98.6	5.8
GOLD TAG 3025		102.4	17.3	93.8	5.5
JACQUES JX180	118.8	102.2	17.3	92.4	10.5
MCCURDY 7084	119.5	101.5	16.5	93.8	3.1
COKER 16	128.5	101.1	17.5	94.3	8.0
CARGILL 949		99.5	17.4	90.0	12.3
BALDRIDGE RX20	110.9	99.5	16.8	91.0	8.5
SU. STATES SS915	135.3	98.5	18.8	96.2	9.1
GOLDEN AC. T-E 6995	122.3	96.6	17.3	83.3	11.1
STEWART 6586		57.3	15.6	74.3	26.1
YELLOW AVERAGE	132.0	142.6	125.7	17.7	93.4	8.7
WHITE HYBRIDS					
RING AROUND RA2502#		145.3	19.4	90.0	18.0
ZIMMERMAN Z14W		142.6	18.6	98.1	7.3
DEKALB XL5903	160.5	138.3	18.4	95.2	5.1
ASGROW RX362W	137.2	135.0	20.0	94.3	12.1
MCNAIR X233W	135.0	132.7	20.0	88.1	8.8
SU. STATES SS950W	150.0	135.6	19.1	98.1	22.4
ZIMMERMAN Z52W	125.4	124.8	19.6	84.3	13.5
MEACHAM'S W78		120.9	19.6	92.9	9.3
PRINCETON SX910W	120.7	118.3	19.9	81.4	3.6
PIONEER BRAND 519W		115.3	16.7	95.7	5.6
ZIMMERMAN Z11W	125.8	114.8	19.7	93.3	10.9
MEACHAM'S W58		113.7	19.7	91.9	8.8
GOLDEN HARV. H2660W	117.4	112.6	20.6	94.3	11.3
FUNK'S G4747W	117.2	98.6	19.7	91.9	6.8
AGRI-GOLD A-6955W		88.4	19.8	93.3	7.9
WHITE AVERAGE	122.7	122.1	121.8	19.4	92.2	10.5
GRAND AVERAGE	130.7	141.3	125.2	17.9	93.3	8.9
LSD*			22.9	1.3	8.2	8.9
C.V.			26.5	5.4	6.5	73.8

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 1.—(continued)

	HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
McCurdy	7484	A	Yellow	Z	McCurdy Seed Co. Fremont, IA 52561
	7748	A	Yellow	Z	
	7978	B	Yellow	Z	
	8225	B	Yellow	Z	
	X890	B	Yellow	3X	
Meacham's	MW78	A	White	3X	Meacham's Hybrids Route 3, Box 239 Morganfield, KY 42437
	MW88	A	White	3X	
Nitro/NAPB	HP87	A	Yellow	Z	Nitro/NAPB Hybrids Box 7 Mitchell, IN 47447
	SPX77	A	Yellow	Z	
	MO707	A	Yellow	Z	
	M7072	A	Yellow	Z	
Northrup-King	PX75	B	Yellow	Z	Northrup-King & Co. 1500 Jackson St., N.E. Minneapolis, MN 55413
	PX78	A	Yellow	Z	
	PX83	A	Yellow	Z	
	PX87	A	Yellow	Z	
	PX95	AB	Yellow	Z	
(McNair)	X233W	AB	White	Z	
O'a Gold	SX334A	B	Yellow	Z	O'a Gold Seed Co. P. O. Box 460 Parkersburg, IA 50665
	SX525S	B	Yellow	(Mod) Z	
	SX535S	B	Yellow	Z	
	SX5500AB	A	Yellow	Z	
	SX5509	A	Yellow	Z	
	TX311	B	Yellow	3X	
P.A.G.	SX17A	AB	Yellow	Z	P-A-G Seeds P. O. Box 9480 Dept. 16 Minneapolis, MN 55440
	SX333	A	Yellow	Z	
	SX351	A	Yellow	Z	
	SX373	A	Yellow	Z	
	Exp. 766010	B	Yellow	Z	
Pioneer Brand	519W	A	White	Z	Pioneer Hi-Bred Int. 221 North Main Street Tipton, IN 46072
	3147	B	Yellow	Z (Mod)	
	3160	A	Yellow	Z (Mod)	
	3179	B	Yellow	Z (Mod)	
	3184	A	Yellow	Z	
	3320	A	Yellow	Z (Mod)	
	3369A	A	Yellow	Z (Mod)	
	3382	A	Yellow	Z	
	X7448	B	Yellow	Z (Mod)	
Premier	SX636	A	Yellow	Z	Premier Hybrids Route 15, Box 223X Acton, In 46259
	SX639	A	Yellow	Z	
	SX691	A	Yellow	Z	
Princeton	SX860	A	Yellow	Z	Princeton Farms P. O. Box 319 Princeton, IN 47670
	SX870	A	Yellow	Z	
	SX910W	AB	White	Z	

TABLE 1.—(continued)

	HYBRID	TEST*	COLOR	CROSS**	SOURCE OF HYBRID
Ring Around	RA1502	A	Yellow	Z	Ring Around Products, Inc. P. O. Box 589 Montgomery, AL 36101
	RA1504	A	Yellow	Z	
	RA2602W	A	White	Z (Mod)	
Ruff's	R3004	A	Yellow	Z	Ruff's Seed Farms Route 4 Amanda, OH 43102
	R302	A	Yellow	Z	
	R336A	A	Yellow	Z	
	R444	B	Yellow	Z	
Select Seed	86	AB	Yellow	Z (Mod)	Select Seed Hybrids P. O. Box 54 Camden, IN 46917
	5100	A	Yellow	Z	
	8400	A	Yellow	Z	
	9300	A	Yellow	Z	
	MDM75	B	Yellow	Z	
So. States	SS710	AB	Yellow	3X	So. States Coop. Inc. P. O. Box 26234 Richmond, VA 23260
	SS725	A	Yellow	Z	
	SS915	A	Yellow	Z	
	SS950W	AB	White	3X	
Stewart	6573	A	Yellow	Z	Stewart's Hybrids, Inc. P. O. Box 68 Princeville, IL 61559
	6586	AB	Yellow	Z	
	6973	A	Yellow	Z	
	SX77	A	Yellow	Z	
Super Crost	5440	A	Yellow	Z	Edw. J. Funk & Sons, Inc. Box 67 Kentland, IN 47951
	6101	A	Yellow	Z	
	7801A	A	Yellow	Z	
Trojan	MDM-116	B	Yellow	3X	Pfizer Genetics, Inc. P. O. Box 367 Windfall, IN 46076
	TX5-114	A	Yellow	Z	
	TX5-115A	A	Yellow	Z	
	TX5-119	A	Yellow	Z	
	T-1230	A	Yellow	Z	
U.S.S. Agri-Chem	USS 1010	A	Yellow	Z	U.S.S. Agri-Chemicals Div. of United States Steel Corp., P. O. Box 1685 Atlanta, Georgia 30301
	USS 1516	A	Yellow	Z	
	USS 2020	A	Yellow	Z	
	USS 2315	B	Yellow	Z	
Voris	V2601	A	Yellow	Z	Voris Seeds, Inc. P. O. Box 457 Windfall, IN 46076
	V2651	A	Yellow	Z	
Zimmerman	Z-11W	A	White	Z	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712
	Z-14W	A	White	Z	
	Z-22Y	A	Yellow	Z	
	Z-24Y	AB	Yellow	Z	
	Z-30Y	B	Yellow	Z	
	Z-31Y	B	Yellow	Z	
	Z-52W	AB	White	3X	

TABLE 8.—ANNUAL SUMMARY, LEXINGTON, KY.

	YIELD 38/AC 76-80	YIELD 40/AC 79-80	YIELD 30/AC 1980	AVG % 40IST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
MIGRO/NAP8 HP87			164.7	17.4	95.2	6.4
DH9113		166.7	163.0	18.5	95.7	5.0
80-JAC 925	155.1	166.3	159.9	18.5	97.1	6.9
SELECT SEED 9300		169.4	159.6	17.7	90.0	2.1
MCCURDY 7748		165.8	154.8	18.5	96.7	6.8
PIONEER BRAND 3160			153.5	18.1	96.2	7.3
JACQUES JX247		165.5	153.1	17.9	96.7	2.5
PREMIER SX636		151.5	152.5	17.7	95.7	15.9
PRINCETON SX870		164.4	152.0	17.8	92.4	2.0
TROJAN T-1230			149.5	18.1	97.1	3.4
GUTWEIN 2910		157.1	148.3	17.9	92.4	8.2
VORIS SEEDS V2651		155.1	147.2	17.7	91.4	12.9
RING AROUND RA1502	143.0	156.2	145.1	19.4	96.7	1.5
D'S GOLD SX5509	151.5	159.6	144.2	18.8	97.1	7.7
STEWART 6973	136.8	151.8	144.0	18.7	95.2	9.7
COKER 22	139.1	152.8	143.0	18.5	98.6	7.7
DEKALB XL74A			141.8	17.9	91.0	7.3
HOBLIT 442	138.3	150.5	141.5	17.7	90.5	1.6
ADLERS 88X		162.1	140.0	18.6	93.8	5.1
PREMIER SX691			140.0	17.8	98.6	5.8
ASGROW RX909		149.4	139.3	18.4	92.4	10.2
HOBLIT 455			139.1	17.9	86.7	5.9
AGRI-GOLD A-6900		165.5	139.0	18.9	94.8	3.5
DENNIS DS42		141.4	136.9	17.7	97.1	10.7
GOLD TAG 4022			136.8	17.1	90.0	3.7
STEWART SX77	135.4	138.0	135.6	18.8	92.4	8.3
CARGILL 967		154.9	135.2	17.8	94.8	10.7
NORTHRUP-KING PX87	140.7	153.1	135.1	18.8	92.9	5.5
USS AG-CHEM USS 1516			134.6	17.4	91.4	23.4
FUNK'S G4948-2			134.1	18.2	89.5	6.4
ADLERS 61X		143.9	133.9	17.7	100.0	7.6
RING AROUND RA1504			133.8	17.9	94.8	3.5
MIGRO/NAP8 M-7072	133.1	142.0	133.8	18.0	96.7	8.8
ADI703			133.0	17.2	87.6	10.3
P.A.G. SX17A	131.1	141.2	131.3	16.0	100.0	20.0
USS AG-CHEM USS 2020			130.4	18.5	91.4	4.7
COLBERT 340		146.0	130.2	18.1	91.4	4.0
NORTHRUP-KING PX78			130.0	17.5	97.1	8.3
DEKALB XL70			129.1	16.9	93.3	7.0
ACCU UC7560			129.0	17.3	98.1	5.3
GUTWEIN 2875			129.0	17.7	82.9	10.2
P.A.G. SX373		148.5	128.8	18.7	96.7	1.5
COLBERT 315			128.3	16.3	94.3	14.2
AGRI-GOLD A-6700			128.2	17.8	97.1	8.2
ZIMMERMAN Z24Y	131.3	141.7	128.1	17.0	96.7	14.6
SELECT SEED 86	136.9	137.6	127.7	18.2	98.1	13.2
MIGRO/NAP8 M-0707	131.0	138.3	127.5	17.8	96.7	2.4
DENNIS DS-57	124.3	130.3	127.5	17.8	86.7	16.1
TROJAN TXS-114	130.6	140.2	127.0	17.1	92.9	5.6
SO. STATES SS710			126.6	17.3	97.1	2.5
P.A.G. SX591			126.6	17.5	95.2	3.5
PIONEER BRAND 3320			126.5	17.4	99.5	4.8
ADI707		144.9	126.4	17.5	86.7	6.1
RUFF'S R334A	137.0	140.8	126.2	17.8	91.4	18.8
PIONEER BRAND 3382		137.4	126.1	19.0	90.5	5.8
PIONEER BRAND 3188	142.7	150.5	126.0	16.7	98.1	1.5
DH7190			125.8	18.2	91.9	7.2
SELECT SEED 8400		145.8	124.7	17.8	93.3	11.9
80-JAC 950			124.2	17.3	91.4	11.0
80-JAC 83	130.0	133.2	124.1	17.5	96.7	15.8
PIONEER BRAND 3369A	140.5	145.9	123.1	17.5	90.0	6.3
SO.STATES SS775	128.0	137.5	122.6	17.7	96.2	8.0
MICRO/NAP8 SPX77			121.4	17.9	97.6	11.6
SUPER CROST 78014		146.0	121.3	18.7	88.6	4.3
CARGILL 934			120.8	16.5	90.5	18.3

TABLE 2.—AGRONOMIC INFORMATION PERTAINING TO 1980 TEST LOCATIONS

Location and Cooperator	Soil Type	Fertilizer lb/A	Herbicide	Insecticide	Planting Date	Harvest Date
(1) Murray, KY Sherwood and Ted Potts	Grenada and Brandon Silt Loam	N - 150 P_2O_5 - 92 K_2O - 90	Aatrex and Dual	Furadan	April 25	October 1 & 2
(2) Princeton, KY Western KY Substation	Huntington and Lindside Silt Loam	N - 150 P_2O_5 - None K_2O - 90	Eradicane and Bladex	Furadan	May 13	October 6 & 7
(3) Henderson, KY James Buley Reid, KY	Huntington Sandy Loam	N - 110 P_2O_5 - None K_2O - None	Sutan+ and Aatrex	None Applied	May 12	October 14
(4) Hartford, KY Dave Milligan	Melvin Silt Loam	N - 175 P_2O_5 - 80 K_2O - 105	Sutan+ and Aatrex	Furadan	May 5	October 10 & 13
(5) Elkton, KY Richard Dickinson	Pembroke Silt Loam	N - 177 P_2O_5 - 69 K_2O - 90	Aatrex and Lasso	Furadan	April 24	October 8 & 9
(6) Elizabethtown, KY Richard Preston	Crider Silt Loam	N - 130 P_2O_5 - None K_2O - None	Paraquat, Aatrex and Princep	Furadan	May 2	October 15 & 16
(7) Frankfort, KY Mason and Ralph Bates	Armour Silt Loam	N - 100 P_2O_5 - None K_2O - None	Eradicane and Aatrex	None Applied	June 3	November 5 & 6
(8) Lexington, KY K.A.E.S. Spindletop Farm	Lanton Silt Loam	N - 150 P_2O_5 - None K_2O - None	Eradicane and Aatrex	Furadan	May 9	October 30 & 31
(9) Quicksand, KY Robinson Substation	Philo Silt Loam	N - 150 P_2O_5 - None K_2O - None	Eradicane, Aatrex and Lasso	Furadan	May 7	October 21 & 22

TABLE 3.—ANNUAL SUMMARY, MURRAY, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
O'S GOLD SX5509	122.5	165.5	186.1	17.6	94.3	3.8
ADLERS 88X		168.5	183.6	17.1	93.6	2.3
PIONEER BRAND 3160			182.9	20.5	100.0	1.4
PRINCETON SX870		181.0	182.3	16.1	90.7	4.0
PREMIER SX691			179.3	17.6	90.0	1.6
USS AG-CHEM USS 2020			179.2	18.6	93.6	3.0
AGRI-GOLD A-6900		164.2	176.4	19.4	82.1	0.9
CARGILL 949			175.9	15.8	94.3	3.0
RING AROUND RA1502	123.2	153.3	174.6	18.8	91.4	1.5
VORIS SEEDS V2651		172.9	174.5	16.8	97.1	3.7
TROJAN T-1230			174.1	18.7	95.0	0.7
NORTHRUP-KING PX95	129.2	162.4	171.4	17.7	92.9	1.6
80-JAC 83	128.2	161.4	171.2	17.2	95.7	0.8
CARGILL 967		175.8	170.5	16.2	91.4	4.5
COKER 22	126.7	156.2	170.0	17.3	95.0	3.7
SELECT SEED 9300		171.8	168.9	18.2	92.1	2.3
MIGRO/NAPB HP87			168.0	18.2	90.7	3.2
DENNIS DS42		133.2	167.9	17.3	85.7	0.9
SUPER CROST 6101			167.5	16.4	92.9	0.7
PREMIER SX636		160.1	167.1	15.0	90.7	3.2
80-JAC 923	136.2	176.1	166.9	17.1	95.0	7.3
RING AROUND RA1504			166.0	18.7	85.0	3.4
RING AROUND RA1504			165.3	16.7	92.9	1.5
PIONEER BRAND 3320			164.5	18.6	93.6	0.7
COKER 19		155.3	163.9	16.6	90.0	1.6
USS AG-CHEM USS 1516			163.6	17.0	90.7	0.8
JACQUES JX247		158.3	161.8	18.9	90.0	3.9
STEWART SX77	117.0	148.7	160.7	18.5	90.0	3.9
NORTHRUP-KING PX87	109.3	142.9	160.6	18.7	93.6	2.4
P.A.G. SX351			160.5	16.4	89.3	4.8
STEWART 6973	121.2	159.6	158.3	17.2	85.0	2.2
COLBERT 345	144.4	174.8	157.9	17.5	97.9	2.9
NORTHRUP-KING PX78			156.7	16.8	92.1	0.7
SELECT SEED 86	131.1	159.3	156.5	17.5	82.9	3.4
MCCURDY 7748		169.3	156.4	16.8	90.7	0.8
DEKALB XL70			156.4	15.8	93.6	5.4
SUPER CROST 5440			154.1	16.5	91.4	5.8
DEKALB XL74A			154.0	17.2	81.4	1.9
PIONEER BRAND 3184	125.9	153.2	154.0	19.2	86.4	0.0
DENNIS DS-37	119.6	147.6	153.7	17.5	92.1	2.4
AGRI-GOLD A-6700			153.7	16.6	90.0	1.6
SELECT SEED 8400		159.8	153.5	17.5	88.6	1.6
RUFF'S R300A			152.7	16.8	84.3	2.5
80-JAC 950			152.4	17.1	94.3	7.0
ACCO UC8951	118.9	149.3	152.3	19.7	94.3	3.0
USS AG-CHEM USS 1010		137.0	152.2	16.0	95.0	2.3
ZIMMERMAN Z24Y	114.8	142.0	151.3	18.6	92.1	1.6
TROJAN TXS-115A			151.2	17.1	89.3	1.6
GOLD TAG 3020	119.6	148.4	151.2	16.7	83.6	6.7
SO. STATES SS710			151.1	17.2	93.6	0.7
JACQUES JX180		135.3	150.7	17.3	90.7	5.6
P.A.G. SX373		150.4	150.3	17.0	96.4	1.5
BALDRIDGE RX77		135.6	150.0	17.0	96.4	7.6
P.A.G. SX333	125.5	150.7	150.0	15.8	91.4	0.8
MICRO/NAPB SPX77			149.0	17.3	96.4	4.4
GOLD TAG 4022			148.7	17.7	95.0	6.6
MIGRO/NAPB M-0707	129.8	163.3	148.5	17.5	88.6	2.4
JACQUES JX187A			148.5	16.5	90.0	2.4
FUNK'S G4606		144.4	148.0	15.9	88.6	4.0
PIONEER BRAND 3369A	125.2	161.0	147.6	17.9	85.0	1.6
MIGRO/NAPB M-7072	119.2	149.4	147.5	18.2	92.9	2.3
CARGILL 934			146.0	17.0	92.1	2.3
SO. STATES SS915		149.5	145.3	18.3	87.9	0.0
ADI707		140.6	144.5	17.3	89.3	5.5
SUPER CROST 78014		164.2	144.3	17.6	83.6	2.5

TABLE 7.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
JACQUES JX187A			110.1	16.2	88.9	20.2
DEKALB XL70			110.0	17.2	75.6	33.1
PREMIER SX639	132.1	153.7	110.0	18.7	82.1	1.6
GOLDEN AC. T-E 6995	152.7	135.6	109.5	18.8	81.2	11.4
SUPER CROST 5440			109.4	16.0	83.8	18.1
P.A.G. SX17A	125.6	130.0	108.9	15.4	82.1	15.6
PIONEER BRAND 3382		129.3	107.3	16.9	80.8	15.0
TROJAN TXS-114	133.5	144.2	107.2	16.5	84.2	33.9
NORTHRUP-KING PX83			107.1	16.1	91.5	4.1
VORIS SEEDS V2601	138.8	134.3	107.1	16.6	82.5	16.7
PIONEER BRAND 3369A	130.9	131.2	106.8	17.1	86.3	11.6
GUTWEIN 2910		140.9	106.5	17.8	71.4	17.3
PIONEER BRAND 3320			106.1	17.5	82.5	11.4
HUBLIT 455			105.6	17.4	72.6	21.4
STEWART 6573	120.9	130.1	105.1	17.0	72.2	3.5
COKER 16	128.3	126.0	104.7	15.7	84.2	9.4
DH7140			104.6	16.7	87.2	44.4
GOLD TAG 5025			104.6	16.7	80.8	34.0
COKER 22	130.3	134.6	104.1	16.6	73.9	32.8
CARGILL 967		135.6	104.1	16.6	82.5	10.4
PRINCETON SX870		135.6	103.7	18.4	82.5	23.0
RUFF'S R334A	139.3	132.4	103.7	17.0	86.8	16.2
GOLDEN AC. T-E 6995A	136.0	136.1	103.5	15.3	86.3	17.9
RUFF'S R300A			103.2	16.2	81.2	5.9
CARGILL 934			103.0	17.6	78.6	6.6
PIONEER BRAND 3184	132.3	133.4	102.8	16.9	88.9	12.7
MCCURDY 7484	124.5	120.4	102.2	17.1	79.1	27.1
SO.STATES SS775	119.7	128.3	101.7	17.0	89.7	8.1
FUNK'S G484B-2			101.6	18.4	72.6	13.1
P.A.G. SX373		140.1	101.3	16.0	82.1	8.3
80-JAC 950			100.9	16.9	82.5	29.4
ZIMMERMAN Z24Y	133.3	122.9	100.7	17.5	82.9	4.0
BALDRIDGE RX77		124.2	99.9	16.3	80.8	15.9
SUPER CROST 78014		134.4	99.1	17.2	71.8	30.3
GOLD TAG 4022			96.8	18.1	83.8	31.8
BALDRIDGE RX24		117.5	96.2	16.0	78.6	14.2
COLBERT 345	154.3	144.3	93.9	19.1	83.8	15.7
SO. STATES SS710			92.9	16.2	81.2	7.0
MIGRO/NAPB M-7072	131.1	123.4	91.4	17.2	84.2	12.5
RUFF'S R302			89.5	17.4	84.6	2.0
STEWART 6586			73.5	14.5	71.8	29.0
YELLOW AVERAGE	135.9	139.4	115.8	17.0	83.1	16.1
WHITE HYBRIDS						
ZIMMERMAN Z19W			127.1	17.9	86.8	26.4
AGRI-GOLD A-6955W			119.8	18.4	90.2	11.3
DEKALB XL3909		129.2	117.3	18.0	81.6	13.8
PRINCETON SX910W	110.2	128.0	116.9	19.6	81.2	24.8
PIONEER BRAND 519W			114.3	17.4	83.8	13.9
MCNAIR X235W		126.6	111.7	19.7	77.4	21.8
ASGROW RX962W		128.9	105.5	19.0	76.9	38.2
MEACHAM'S MW88			103.9	18.3	66.2	17.1
MEACHAM'S MW78			103.5	19.7	86.3	20.9
FUNK'S G4747W	116.2	126.8	103.5	19.2	86.8	26.4
ZIMMERMAN Z11W	123.9	120.6	99.2	19.2	89.3	11.8
GOLDEN HARV. H2660W	109.5	118.3	99.1	18.0	81.6	26.5
SO. STATES SS950W	124.2	128.1	98.0	17.0	88.0	48.8
ZIMMERMAN Z52W	122.4	122.2	87.7	18.7	82.1	28.6
RING AROUND RA2502W			82.8	18.0	81.6	9.7
WHITE AVERAGE	117.7	125.4	106.0	18.5	82.6	22.7
GRAND AVERAGE	133.3	137.7	114.6	17.2	83.1	16.9
LSD*			22.5	1.5	8.7	19.3
C.V.			14.5	6.5	7.4	84.7

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 7.—ANNUAL SUMMARY, ELIZABETHTOWN, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
DENNIS DS42		145.4	143.0	17.2	78.6	5.5
DH7175		154.7	142.0	17.4	88.0	6.5
ADLERS 30X			140.7	14.8	87.2	6.9
COKER 19A			139.8	17.8	83.8	12.0
ACCO UC8951	137.2	144.3	139.0	17.7	87.2	10.5
TROJAN T-1230			137.9	17.3	87.2	16.0
P.A.G. SX355	137.2	154.2	137.4	15.9	89.3	37.5
DEKALB XL71		157.0	137.3	17.5	86.8	16.8
MIGRO/NAPB HP87			135.5	16.7	84.6	34.5
SELECT SEED 9300		150.1	134.0	16.6	83.3	39.8
SUPER CROST 6101			133.8	16.3	85.9	6.2
COLBERT 340		150.6	133.7	17.9	84.6	7.1
PIONEER BRAND 3160			132.7	18.2	85.9	4.1
HOBLIT 442	141.2	144.6	132.3	17.9	85.9	8.9
SELECT SEED 5100	142.8	154.0	131.7	16.7	85.9	9.3
ADI707		154.0	131.6	17.4	84.6	19.2
DH9113		147.2	130.2	16.4	83.8	11.2
DENNIS DS-37	129.7	137.7	130.0	17.5	85.0	31.5
SELECT SEED 8400		147.9	129.9	15.9	83.3	4.3
O'S GOLD SX5509	153.5	152.0	129.0	17.2	87.2	16.1
MCCURDY 7748		151.6	128.9	16.4	89.3	21.1
MIGRO/NAPB M-0707	150.9	148.2	127.8	18.2	89.7	10.5
USS AG-CHEM USS 1516			127.3	15.8	85.0	48.2
80-JAC 923	147.9	152.7	126.9	17.5	83.8	26.4
VORIS SEEDS V2651		148.0	126.8	16.3	87.2	33.0
O'S GOLD SX5500AB			126.3	16.8	86.8	13.8
AGRI-GOLD A-6900		152.2	126.2	18.0	85.9	16.9
COLBERT 315			126.2	16.4	88.9	19.0
JACQUES JX247		147.8	125.9	16.7	86.8	44.6
PREMIER SX636		146.0	125.6	19.2	85.5	11.8
SO. STATES SS915		141.0	125.3	17.6	79.5	2.5
RING AROUND RA1504			124.9	18.5	87.2	12.8
AGRI-GOLD A-6700			124.6	16.0	80.8	14.6
SELECT SEED 86	136.2	141.3	124.4	16.9	83.3	13.6
NORTHRUP-KING PX78			124.1	16.6	86.8	29.8
FUNK'S G4507A			122.6	17.5	85.0	22.9
ASGROW RX909		139.1	122.4	18.3	87.2	6.8
GUTWEIN 2875			122.0	16.8	78.6	24.7
JACQUES JX180		123.7	120.9	17.4	83.3	3.8
ADLERS 88X		154.5	120.8	17.8	76.1	8.3
COKER 19		135.1	120.6	16.9	85.5	17.2
RING AROUND RA1502	134.5	136.1	120.1	16.9	89.3	12.4
RING AROUND RA1504			118.4	15.9	84.6	9.9
NORTHRUP-KING PX87	141.4	140.5	117.7	17.9	83.3	7.6
P.A.G. SX351			117.7	16.1	83.8	20.2
USS AG-CHEM USS 2020			117.6	16.6	82.1	18.8
FUNK'S G4606		131.1	117.4	16.6	84.6	6.4
ADLERS 61X		140.1	117.4	16.4	84.6	11.7
PREMIER SX691			117.2	17.8	85.0	5.3
CARGILL 949			117.1	16.2	79.1	14.2
ASGROW RX98	130.9	137.5	116.3	16.6	87.2	8.9
STEWART SX77	136.3	135.4	115.0	17.0	76.5	6.0
STEWART 6973	143.5	144.1	114.8	17.4	86.3	31.4
80-JAC 83	149.3	145.0	114.8	15.6	88.2	15.9
TROJAN TXS-119	121.8	126.5	113.0	18.5	77.4	24.8
ACCO UC7660			113.0	16.6	85.5	23.8
PRINCETON SX860			112.9	17.5	82.9	7.9
USS AG-CHEM USS 1010		128.7	112.8	15.3	80.8	9.2
ZIMMERMAN Z22Y	140.4	141.6	112.2	17.7	82.1	4.1
ADI705			112.2	17.7	76.9	9.5
DEKALB XL74A			111.8	16.9	82.1	6.1
TROJAN TXS-115A			111.8	17.1	82.1	17.9
MICRO/NAPB SPX77			111.0	16.8	82.1	20.4
NORTHRUP-KING PX95	139.7	142.0	110.9	18.4	74.4	6.2
GOLD TAG 3020	135.3	141.1	110.6	17.5	85.5	4.4

TABLE 3.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
RUFF'S R334A	126.7	150.3	144.1	18.8	86.4	2.6
P.A.G. SX17A	123.3	152.5	144.1	17.3	87.9	2.4
PRINCETON SX860			143.9	18.2	94.3	0.7
DH9113		154.7	143.7	17.2	89.3	5.8
COKER 16	112.1	138.2	143.2	17.6	95.7	1.5
HOBLIT 442	118.4	150.0	142.7	19.0	89.3	1.7
HOBLIT 455			142.4	17.5	81.4	0.9
FUNK'S G4507A			142.4	16.2	98.6	3.6
STEWART 6573	113.3	147.8	142.2	19.1	80.7	2.6
ASGROW RX909		145.3	141.9	17.6	91.4	1.5
GUTWEIN 2875			140.5	16.9	92.1	5.6
ADLERS 30X			139.8	17.2	93.6	3.1
TROJAN TXS-114	117.2	150.2	139.7	15.9	83.6	2.6
ADLERS 61X		145.8	139.2	17.4	85.0	0.0
ZIMMERMAN Z22Y	111.3	132.0	138.7	17.4	92.9	1.6
SO.STATES SS775	114.1	140.8	137.5	17.9	93.6	1.5
DEKALB XL71		132.3	136.6	17.4	86.4	4.9
FUNK'S G4848-2			136.1	20.3	91.4	3.9
O'S GOLD SX5500AB			135.8	16.5	87.1	5.3
DH7190			134.8	16.6	90.7	4.7
ADI703			134.6	17.3	77.1	2.8
MCCURDY 7484	132.8	144.3	133.1	16.0	87.9	3.2
RUFF'S R302			132.7	17.3	90.7	3.1
VORIS SEEDS V2601	137.1	155.0	132.6	16.1	93.6	3.8
SELECT SEED 5100	128.9	153.3	132.5	16.9	85.0	5.0
TROJAN TXS-119	116.9	142.9	131.6	16.9	90.0	4.0
BALDRIDGE RX24		127.9	130.0	17.4	94.3	3.8
GOLDEN AC. T-E 6995A	127.0	149.9	128.1	16.5	77.1	1.8
ACCO UC7660			127.8	16.7	91.4	1.6
COLBERT 315			127.2	17.7	98.6	2.2
PREMIER SX639	117.0	142.7	127.0	17.3	89.3	4.0
NORTHRUP-KING PX83			125.5	18.3	91.4	5.0
DH7175		139.7	125.1	15.5	87.1	1.6
COLBERT 340		148.2	121.5	18.5	88.6	3.1
ASGROW RX98	111.4	133.0	117.2	17.5	84.3	5.8
GOLD TAG 3025			112.5	16.0	87.1	3.3
PIONEER BRAND 3382		128.7	112.2	17.8	72.9	0.9
GUTWEIN 2910		140.8	107.5	18.0	76.4	2.8
COKER 19A			107.4	18.2	92.9	4.6
GOLDEN AC. T-E 6995	103.9	127.8	104.8	17.3	92.1	6.2
STEWART 6586			104.0	16.6	80.7	4.5
YELLOW AVERAGE	122.2	151.2	149.1	17.5	90.0	2.9
WHITE HYBRIDS						
PRINCETON SX910W	120.3	157.5	168.1	19.3	87.9	3.2
PIONEER BRAND 519W			167.6	17.8	95.7	0.0
ASGROW RX962W		163.0	166.6	20.8	90.0	3.2
SO. STATES SS950W	121.9	164.5	162.5	19.2	87.9	3.3
MEACHAM'S MV78			152.5	20.4	87.9	0.0
ZIMMERMAN Z14W			151.7	20.2	94.3	3.0
ZIMMERMAN Z11W	119.4	153.3	150.0	21.5	79.3	2.7
DEKALB XL3908		159.2	146.9	18.8	80.0	2.7
ZIMMERMAN Z52W	116.4	154.4	145.3	19.9	85.0	1.7
MCNAIR X233W		140.9	140.8	19.1	81.4	3.5
GOLDEN HARV. H2660W	114.9	151.5	138.6	19.1	92.1	7.0
RING AROUND RA2502W			135.8	19.8	92.9	3.8
MEACHAM'S MV98			131.8	18.9	85.0	1.7
FUNK'S G4747W	109.2	144.4	123.7	19.0	86.4	7.2
AGRI-GOLD A-5955W			121.5	18.9	87.1	1.6
WHITE AVERAGE	117.0	154.3	146.9	19.5	87.5	3.0
GRAND AVERAGE	121.4	151.6	148.9	17.7	89.7	2.9
LSD*			36.6	1.6	10.1	4.1
C.V.			14.9	5.6	6.7	85.1

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 4.—ANNUAL SUMMARY, PRINCETON, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
STEWART SX77	154.7	153.5	136.1	17.5	91.4	6.7
FUNK'S G4848-2			129.9	19.7	81.4	14.7
AGRI-GOLD A-5900		143.7	126.9	19.1	94.3	19.4
ASGRJW RX909		143.5	121.5	18.9	96.7	17.7
CARGILL 967		149.2	119.7	17.0	88.6	24.6
GOLD TAG 4022			119.2	17.8	93.8	12.1
DENNIS DS42		133.5	117.9	18.2	90.5	11.9
HOBLIT 442	148.9	156.0	116.9	18.6	91.0	15.8
DEKALB XL71		143.7	115.9	18.9	93.3	9.9
G'S GOLD SX5509	145.2	146.6	115.9	18.4	91.9	10.6
MCCURDY 7748		140.1	115.3	19.6	91.0	20.5
FUNK'S G4507A			112.8	17.2	90.0	17.9
RING AROUND RA1504			112.5	19.0	95.2	11.3
BO-JAC 83	132.1	129.2	112.3	18.4	93.8	18.9
SELECT SEED 8400		152.9	111.6	17.7	87.1	32.5
PIONEER BRAND 3160			111.0	17.5	85.7	11.4
MIGRJ/NAPB M-0707	136.4	157.6	109.8	19.5	84.8	13.7
JACQUES JX187A			109.7	16.5	90.0	20.6
TROJAN T-1230			109.4	19.6	88.1	14.9
NORTHRUP-KING PX78			109.2	17.5	87.1	9.7
MIGRJ/NAPB SPX77			109.0	17.3	88.1	27.5
PREMIER SX691			108.8	18.3	85.7	6.7
COKER 19A			108.8	21.4	84.8	14.3
ZIMMERMAN Z24Y	145.3	141.4	108.0	17.7	90.5	32.8
ADI703			107.9	19.4	81.4	12.1
COLBERT 315			107.2	17.4	90.0	30.7
PIONEER BRAND 3184	144.2	139.1	106.7	17.9	95.7	3.8
USS AG-CHEM USS 1516			106.5	20.4	93.3	60.9
JACQUES JX247		137.1	104.9	19.5	87.6	11.3
DH71/5		142.2	103.9	18.4	93.3	11.5
ADLEYS 88X		155.1	102.5	19.6	95.7	10.3
ACCO UC8931	142.1	140.3	102.4	19.7	88.1	15.1
GUTWEIN 2910		140.6	102.3	19.9	78.1	16.5
USS AG-CHEM USS 2020			101.3	18.5	82.9	21.1
BO-JAC 950			100.5	18.9	98.1	15.5
DEKALB XL74A			100.2	19.5	89.5	10.6
CARGILL 949			99.7	18.0	78.6	9.3
COKER 22	155.3	134.8	99.7	18.4	84.8	28.4
TROJAN TXS-115A			98.4	19.1	82.4	14.4
PREMIER SX636		138.5	98.1	20.1	92.4	15.9
MIGRJ/NAPB HP87			97.6	18.2	93.8	33.3
SUPER CROST 5101			97.6	19.7	92.4	11.9
GOLDEN AC. T-E 6995	131.9	127.8	97.1	18.8	90.0	11.5
RUFF'S R300A			96.8	18.3	85.7	16.1
P.A.G. SX333	138.7	133.3	95.7	18.6	85.7	16.0
SELECT SEED 5100	145.4	141.4	95.4	18.1	96.2	13.7
PIONEER BRAND 3382		121.5	94.9	18.4	91.9	21.3
SELECT SEED 86	131.4	127.8	94.8	18.6	88.6	8.6
PIONEER BRAND 3320			94.6	18.8	91.9	19.8
TROJAN TXS-114	155.9	131.3	94.5	18.2	91.8	19.8
COLBERT 340		134.8	94.2	18.2	91.0	6.9
MIGRJ/NAPB M-7072	138.9	134.2	94.1	18.6	90.0	19.9
P.A.G. SX373		141.4	93.7	17.5	89.5	8.4
GUTWEIN 2875			93.0	19.5	87.6	10.8
PRINCETON SX870		134.6	92.9	19.1	91.4	6.8
BO-JAC 925	145.2	138.1	92.7	19.0	94.3	21.8
SO. STATES SS710			92.6	19.6	86.7	9.9
P.A.G. SX17A	132.7	124.6	91.6	17.6	95.2	19.0
JACQUES JX180		124.5	91.6	17.8	88.6	18.7
MCCURDY 7484	122.1	115.2	91.5	17.8	93.3	29.9
RUFF'S R334A	131.5	126.2	90.0	18.0	82.4	19.0
DENNIS DS-37	137.6	128.1	90.0	18.2	92.4	16.6
SUPER CROST 5440			89.5	19.2	80.5	15.8
ZIMMERMAN Z22Y	130.5	128.6	89.4	18.1	89.0	23.8
FUNK'S G4606		126.1	89.2	17.6	87.1	25.1

TABLE 6.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
P.A.G. SX373		115.2	75.9	16.8	80.0	12.5
COKER 19		110.3	75.7	15.5	61.4	14.5
COKER 19A			75.5	16.0	76.2	18.1
NORTHRUP-KING PX95	122.4	117.9	75.1	17.2	67.1	36.9
MIGRJ/NAPB M-0707	118.7	114.2	74.4	16.2	70.5	15.4
TROJAN TXS-119	107.3	102.3	73.8	15.4	77.1	14.6
DH7190			73.4	15.7	85.2	16.0
GUTWEIN 2910		112.6	73.4	16.4	75.7	20.3
DEKALB XL70			72.5	15.6	84.3	49.5
SELECT SEED 8400		98.8	72.0	16.7	81.0	28.3
CARGILL 934			71.8	15.6	72.9	20.0
COKER 22	99.8	94.0	71.6	15.6	74.3	14.8
SO. STATES SS710			71.3	16.3	77.6	19.9
MIGRJ/NAPB M-7072	112.6	110.7	71.1	16.9	81.9	32.0
GUTWEIN 2875			70.3	18.1	73.8	15.5
BALDRIDGE RX24		87.9	69.9	16.5	71.0	8.2
DH71/5		103.7	69.6	15.9	67.1	19.7
COKER 16	103.8	106.4	69.4	15.8	77.6	10.7
RUFF'S R300A			69.3	16.0	70.5	17.6
RING AROUND RA1604			69.2	16.1	73.8	20.5
COLBERT 340		115.9	69.0	16.0	73.8	29.7
HOBLIT 455			68.9	16.5	70.5	13.6
RUFF'S R334A	114.4	99.2	68.8	17.0	80.0	23.8
STEWART 6973	115.4	119.7	68.8	17.0	73.8	12.1
NORTHRUP-KING PX87	112.1	104.2	68.3	15.9	74.8	14.4
TROJAN TXS-114	102.8	102.0	68.0	15.3	71.0	21.7
GOLDEN AC. T-E 6995	98.0	99.4	66.8	16.2	78.1	14.4
RING AROUND RA1504			66.3	15.3	82.9	18.5
SUPER CROST 5440			65.3	15.7	75.7	9.2
RUFF'S R302			65.0	15.6	71.4	6.6
P.A.G. SX17A	116.9	100.7	64.8	15.0	75.2	24.8
ASGRJW RX98	116.2	96.0	63.8	15.9	86.7	7.6
GOLD TAG 3025			63.1	15.7	66.7	10.0
VORIS SEEDS V2601	111.4	94.3	62.2	16.9	90.0	8.5
SO. STATES SS915		99.0	62.1	16.6	61.9	19.4
PIONEER BRAND 3320			61.2	15.9	88.1	25.4
NORTHRUP-KING PX83			59.3	16.0	68.6	9.5
AGRI-GOLD A-6700			58.8	16.3	85.7	18.7
COLBERT 345	107.5	104.1	57.0	16.6	80.5	19.7
PREMIER SX639	103.4	95.7	51.6	15.1	74.8	6.4
BALDRIDGE RX77		98.2	47.3	15.4	78.1	15.1
YELLOW AVERAGE	112.6	111.8	79.3	16.0	77.0	17.4
WHITE HYBRIDS						
MEACHAM'S MW88			77.7	16.6	77.1	21.7
SO. STATES SS950W	102.6	110.3	73.5	15.9	76.2	20.0
AGRI-GOLD A-6955W			71.3	17.6	80.0	19.0
FUNK'S G4747W	110.6	99.7	70.7	17.6	87.6	23.1
PRINCETON SX910W	100.8	97.7	69.4	17.3	82.9	20.4
DEKALB XL3903		103.9	68.2	16.4	61.9	35.0
ZIMMERMAN Z14W			67.1	18.0	88.1	25.6
MEACHAM'S MW78			66.8	17.0	78.1	24.3
RING AROUND RA2602W			60.8	17.3	72.9	23.3
ZIMMERMAN Z11W	104.1	89.7	58.6	17.4	81.0	27.7
GOLDEN HARV. H2660W	94.2	93.9	58.4	17.2	76.2	21.1
PIONEER BRAND 519W			58.1	16.8	72.4	27.9
ASGRJW RX962W		95.0	57.6	17.6	74.3	19.2
MCNAIR X255W		88.7	49.6	16.4	69.0	21.5
ZIMMERMAN Z52W	96.2	89.2	46.2	18.0	84.8	28.0
WHITE AVERAGE	101.4	96.5	63.6	17.1	77.5	23.9
GRAND AVERAGE	111.0	109.9	77.3	16.1	77.1	18.2
LSD*			21.1	1.3	13.4	10.9
C.V.			20.2	6.1	12.9	44.4

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 6.—ANNUAL SUMMARY, ELKTON, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %TOTAL % STAND 1980	LODGED 1980
YELLOW HYBRIDS						
ADI707		138.6	103.8	15.3	85.7	16.8
USS AG-CHEM USS 1516			100.7	15.2	81.0	20.1
O'S GOLD SX5509	112.7	127.0	99.7	16.0	83.8	20.2
SUPER CROST 78014		132.3	97.6	16.7	68.1	18.8
ZIMMERMAN Z24Y	117.0	118.4	96.5	14.7	79.5	30.8
VORIS SEEDS V2651		127.2	96.5	16.0	71.9	29.7
DH9113		129.8	96.4	15.3	75.7	11.1
SELECT SEED 9300		127.9	96.2	15.4	75.7	13.7
MCCURDY 7484	114.6	110.3	96.5	15.6	74.3	13.7
ADLERS 88X		133.5	96.0	15.0	87.6	13.3
MIGRO/NAPB HP87			93.2	16.5	89.5	21.1
FUNK'S G4606		121.4	93.0	15.1	69.0	25.1
JACQUES JX187A			92.8	15.7	84.3	23.3
AGRI-GOLD A-6900		121.5	92.7	16.8	81.0	13.4
PRINCETON SX860			92.0	16.3	77.6	3.7
SELECT SEED 5100	116.8	111.0	91.8	15.8	81.9	9.2
P.A.G. SX351			91.7	15.9	69.5	21.4
TROJAN T-1230			91.3	15.8	83.8	23.2
ACCO UC8951	123.1	119.8	91.2	16.1	84.3	15.8
DENNIS DS42		112.9	91.1	14.2	82.4	19.9
MICRO/NAPB SPX77			91.1	16.3	73.8	19.1
GOLD TAG 4022			90.8	15.6	76.2	26.5
CARGILL 967		124.2	90.7	14.5	80.5	16.0
ADLERS 30X			90.1	16.9	75.7	10.3
SUPER CROST 6101			90.1	16.1	77.6	13.4
ADLERS 61X		117.1	90.0	15.9	78.1	9.9
CARGILL 949			89.2	15.5	84.3	10.2
DENNIS DS-37	102.7	105.9	88.4	16.4	78.1	10.0
TROJAN TXS-115A			88.1	15.7	81.9	10.4
PIONEER BRAND 3369A	118.9	118.6	88.0	17.7	75.7	23.0
RING AROUND RA1502	110.1	117.2	87.5	16.5	85.7	21.3
P.A.G. SX333	115.3	111.3	87.1	15.7	79.0	20.9
BO-JAC 83	119.7	110.6	86.7	15.5	81.4	17.8
STEWART 6573	115.3	114.5	86.7	16.7	70.5	14.2
GOLDEN AC. T-E 6995A	108.1	107.2	85.8	15.6	79.0	13.2
USS AG-CHEM USS 1010		102.9	85.5	14.9	73.3	7.2
ASGROW RX909		107.5	84.7	15.8	82.4	14.7
PRINCETON SX870		114.5	84.7	16.6	71.0	18.9
USS AG-CHEM USS 2020			83.9	15.8	73.8	8.3
PREMIER SX636		121.2	83.3	17.5	79.0	15.0
MCCURDY 7748		117.8	82.9	15.6	71.9	15.8
BO-JAC 950			82.7	16.9	66.2	22.5
JACQUES JX247		120.7	82.3	15.8	71.9	25.9
JACQUES JX180		111.1	82.2	15.4	79.5	13.7
ADI703			81.6	15.8	76.2	18.3
NORTHRUP-KING PX78			81.2	14.9	76.2	13.2
DEKALB XL71		114.0	81.1	16.6	79.5	18.2
FUNK'S G4848-2			81.1	16.5	64.3	14.7
ACCO UC7650			80.2	16.5	77.6	16.7
FUNK'S G4507A			80.2	15.8	81.9	19.6
BO-JAC 925	109.0	112.0	79.9	16.7	82.9	15.5
PIONEER BRAND 3160			79.9	16.1	75.7	34.6
DEKALB XL74A			79.6	17.1	77.6	18.3
HOBLIT 482	118.9	115.9	79.0	15.8	85.2	14.7
COLBERT 315			78.3	16.0	89.0	33.1
STEWART 6586			78.1	14.9	70.5	13.0
ZIMMERMAN Z22Y	120.8	115.1	78.0	15.9	76.7	13.2
STEWART SX77	117.9	110.6	77.5	15.7	87.6	18.3
PREMIER SX691			77.3	15.5	68.1	21.4
PIONEER BRAND 3382		107.7	76.9	15.8	66.2	6.7
PIONEER BRAND 3184	117.1	110.8	76.6	15.5	79.0	8.3
GOLD TAG 3020	117.1	107.8	76.4	15.5	71.0	12.7
SO.STATES SS775	103.9	108.7	76.3	15.5	87.1	6.9
O'S GOLD SX5500AB			76.0	16.4	78.1	32.7
SELECT SEED 96	112.7	107.7	76.0	15.4	72.4	19.3

TABLE 4.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG %TOTAL % STAND 1980	LODGED 1980
YELLOW HYBRIDS						
VORIS SEEDS V2651		133.9	89.1	14.3	96.2	17.0
PIONEER BRAND 3369A	145.4	135.2	89.0	17.7	86.7	21.8
AGRI-GOLD A-6700			88.6	17.8	91.9	23.8
STEWART 6573	134.6	125.0	87.7	19.6	87.6	10.6
NORTHRUP-KING PX83			87.4	17.9	76.7	25.2
SUPER CROST 78014		120.5	87.2	20.0	88.1	19.8
ADLERS 61X		124.9	86.8	17.0	87.6	17.6
COKER 19		132.6	86.2	18.2	91.4	12.0
USS AG-CHEM USS 1010		118.7	85.8	18.4	81.4	6.9
BALDRIDGE RX24		119.9	85.4	18.4	78.6	25.1
VORIS SEEDS V2601	121.5	124.0	85.4	17.6	88.6	21.8
GOLD TAG 3025			85.1	17.4	86.2	20.8
O'S GOLD SX5500AB			84.9	19.2	90.5	35.3
DH9113		128.1	84.6	18.5	78.6	12.7
NORTHRUP-KING PX87	128.4	124.3	83.9	19.8	84.3	14.8
ADLERS 30X			83.7	16.7	91.4	10.3
HOBLIT 455			83.4	18.5	79.5	9.0
ADI707		124.7	82.7	18.5	85.7	46.0
RUFF'S R302			82.5	18.8	84.8	8.9
COKER 16	120.5	122.2	82.1	19.2	87.6	24.3
NORTHRUP-KING PX95	137.6	126.0	80.5	18.5	89.5	52.7
RING AROUND RA1504			80.2	17.2	88.1	5.9
TROJAN TXS-119	118.6	107.5	79.9	18.4	90.5	13.6
P.A.G. SX351			79.8	17.3	92.4	12.4
COLBERT 345	131.0	125.1	79.6	19.0	93.8	18.1
STEWART 6973	140.1	127.6	79.3	19.1	81.0	11.8
GOLD TAG 3020	123.9	122.9	78.6	19.0	82.9	14.4
SELECT SEED 9300		119.0	77.6	20.2	82.4	12.8
SO. STATES SS915		126.9	77.3	19.7	87.1	24.1
CARGILL 934			77.1	17.2	86.2	22.9
SO.STATES SS775	115.9	111.0	76.5	17.2	90.0	21.1
DEKALB XL70			75.4	17.8	87.6	35.2
RING AROUND RA1502	123.6	124.1	75.2	18.4	86.2	12.6
PREMIER SX639	119.1	115.1	73.2	18.9	77.6	21.4
ASGROW RX98	123.6	109.7	64.7	18.5	89.5	20.8
ACCO UC7660			64.4	18.3	85.7	36.5
DH7190			63.8	19.1	83.3	17.5
PRINCETON SX860			63.2	16.8	81.9	5.9
BALDRIDGE RX77		108.4	58.7	17.3	87.1	17.4
GOLDEN AC. T-E 6995A	115.8	102.0	50.4	17.9	91.9	13.0
STEWART 6586			42.8	16.2	81.4	26.9
YELLOW AVERAGE	133.5	130.3	93.9	18.4	88.2	18.0
WHITE HYBRIDS						
FUNK'S G4747W	141.6	133.8	104.7	20.6	91.9	21.7
ZIMMERMAN Z11W	126.1	125.6	103.2	20.8	84.8	14.9
SO. STATES SS950W	138.6	140.0	102.0	20.6	91.9	19.1
ZIMMERMAN Z14W			97.7	19.5	93.8	24.3
GOLDEN HARV. H2660W	133.4	130.8	95.9	19.8	83.8	21.7
AGRI-GOLD A-6955W			94.7	21.1	91.0	24.2
MEACHAM'S MV78			87.0	18.5	94.3	33.0
PRINCETON SX910W	124.0	122.8	85.5	20.7	84.3	9.9
MCNAIR X235W		120.3	81.4	20.0	81.9	29.4
MEACHAM'S MV88			80.2	21.3	83.8	33.1
ASGROW RX962W		118.0	77.4	21.2	92.4	24.2
PIONEER BRAND 519W			76.0	17.9	92.4	10.2
DEKALB XL590B		128.4	71.2	18.7	83.8	22.4
ZIMMERMAN Z52W	130.1	118.8	71.2	19.2	84.8	22.3
RING AROUND RA2602W			62.6	20.3	90.0	37.6
WHITE AVERAGE	132.3	126.5	86.0	20.0	88.3	23.2
GRAND AVERAGE	133.3	129.9	92.9	18.6	88.2	18.6
LSD*			33.2	1.7	10.2	15.0
C.V.			26.5	6.7	8.5	59.6

* For the difference between two means to be significant the observed difference must exceed the LSD.

TABLE 5.—ANNUAL SUMMARY, HARTFORD, KY.

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
80-JAC 925	156.1	167.9	164.7	19.2	90.0	1.6
MIGRO/NAPB HP87			164.6	18.8	88.1	4.4
DH9115		161.3	160.2	18.0	84.8	4.6
TROJAN T-1230			160.1	18.4	89.0	4.8
MIGRO/NAPB M-0707	164.7	158.2	159.2	18.8	88.6	1.6
GOLD TAG 4022			158.2	18.9	88.6	6.0
STEWART 6973	153.2	153.9	156.2	18.9	82.4	4.1
O'S GOLD SX5509	157.8	151.1	154.5	17.9	91.4	3.1
SELECT SEED 9300		149.1	153.1	19.0	84.8	5.5
PRINCETON SX870		160.7	152.9	18.6	91.4	5.3
RING AROUND RA1502	151.1	147.9	152.7	18.6	94.3	0.5
DEKALB XL79A			151.9	19.1	86.2	1.6
PREMIER SX691			151.1	20.0	87.1	4.9
AGRI-GOLD A-6900		154.4	150.1	20.6	91.0	4.8
ACCO UC8951	152.4	152.6	150.0	20.2	90.5	8.9
MCCURDY 7708		150.0	149.6	20.1	92.4	3.7
COLBERT 345	156.4	151.7	149.2	18.8	87.1	9.5
STEWART SX77	146.7	141.9	149.1	18.2	93.8	2.1
PREMIER SX636		148.2	147.5	19.5	87.6	9.1
PIONEER BRAND 3320			147.1	18.0	94.3	4.1
SUPER CROST 6101			146.5	18.5	91.9	5.9
NORTHRUP-KING PX87	159.9	152.3	146.2	19.4	82.9	7.4
HOBLIT 442	151.3	146.6	146.1	19.7	91.4	3.6
JACQUES JX247		150.0	144.5	18.8	87.1	4.4
ADLERS 88X		148.8	144.2	19.5	87.1	6.6
COKER 22	145.8	139.8	143.1	18.7	87.1	5.5
SELECT SEED 8400		152.8	142.6	17.6	88.1	0.5
RING AROUND RA1604			142.2	20.9	93.3	3.6
TROJAN TXS-119	133.6	133.3	142.0	17.6	92.4	5.5
80-JAC 83	154.0	143.3	141.9	18.7	83.8	3.7
FUNK'S G4507A			141.8	18.5	95.7	6.0
GOLDEN AC. T-E 6995	145.6	137.8	140.9	19.2	82.4	7.4
JACQUES JX187A			140.6	17.9	84.8	9.2
COKER 19A			139.8	19.3	86.7	8.6
ADI707		137.4	139.6	19.3	91.0	6.8
ASGROW RX909		141.2	139.5	19.6	88.6	10.2
ZIMMERMAN Z24Y	155.2	146.7	139.1	18.7	95.7	3.1
GUTWEIN 2875			138.7	19.6	78.6	9.2
SELECT SEED 5100	143.0	144.3	139.7	18.7	93.3	7.1
SO. STATES SS915		149.9	139.7	20.1	89.0	1.1
DENNIS DS42		128.2	138.5	18.1	86.7	6.0
SUPER CROST 5440			138.5	18.7	88.1	4.8
JACQUES JX180		137.0	138.3	18.1	84.8	18.8
DH7175		139.6	138.0	18.7	92.4	5.7
VORIS SEEDS V2601	133.2	132.7	138.0	18.5	87.6	5.9
PIONEER BRAND 3369A	150.3	144.1	137.8	16.9	90.5	3.3
P.A.G. SX351			137.7	17.2	89.5	6.8
USS AG-CHEM USS 2020			137.6	20.3	90.0	2.7
TROJAN TXS-115A			136.8	17.6	88.1	8.4
STEWART 6573	153.8	137.8	136.7	18.5	85.2	4.5
CARGILL 949			136.4	17.7	82.9	8.8
GOLDEN AC. T-E 6995A	133.8	133.3	136.3	17.5	91.4	6.7
PIONEER BRAND 3160			135.9	19.4	88.6	5.4
USS AG-CHEM USS 1516			135.8	19.5	92.9	1.5
RUFF'S R339A	143.4	136.5	135.4	19.2	85.2	6.1
COLBERT 315			135.2	17.9	93.3	2.6
DEKALB XL70			134.8	19.0	86.7	8.3
P.A.G. SX17A	143.7	136.8	133.9	18.5	92.4	11.4
COKER 16	143.7	139.5	133.6	17.2	93.8	3.1
NORTHRUP-KING PX78			133.5	17.3	91.9	6.7
P.A.G. SX333	141.6	142.3	133.2	17.8	90.5	2.8
ADI703			132.9	20.4	78.6	5.9
RING AROUND RA1504			132.6	17.1	88.6	6.7
DENNIS DS-57	140.5	129.8	132.5	18.4	91.9	8.8
PRINCETON SX860			132.4	20.0	91.9	0.5

TABLE 5.—(continued)

	YIELD BU/AC 78-80	YIELD BU/AC 79-80	YIELD BU/AC 1980	AVG % MOIST 1980	AVG % STAND 1980	TOTAL % LODGED 1980
YELLOW HYBRIDS						
ZIMMERMAN Z22Y	144.0	139.4	131.9	19.2	89.0	3.7
MIGRO/NAPB M-7072	141.6	131.9	130.4	19.8	83.8	4.4
RUFF'S R302			130.2	18.7	95.2	1.0
MICRO/NAPB SPX77			130.0	20.2	86.7	5.6
VORIS SEEDS V2651		129.7	129.4	18.5	89.5	5.4
GUTWEIN 2910		134.0	129.3	18.3	73.8	8.7
COKER 19		137.1	129.1	18.1	83.3	7.3
MCCURDY 7484	135.9	134.2	128.9	18.8	91.9	10.4
USS AG-CHEM USS 1010		133.6	128.6	17.4	86.2	8.0
80-JAC 950			128.5	19.8	83.3	11.0
NORTHRUP-KING PX95	148.0	136.4	128.4	18.9	88.6	2.8
ADLERS 30X			127.8	17.2	91.9	2.6
ADLERS 61X		132.0	127.3	18.6	84.8	7.6
PIONEER BRAND 3382		130.3	126.3	18.2	89.5	1.6
FUNK'S G4606		130.7	124.6	17.7	84.3	5.6
HOBLIT 455			124.6	18.3	79.0	0.0
FUNK'S G4848-2			124.5	19.4	81.4	2.4
SELECT SEED 86	141.1	132.6	124.3	19.1	90.0	3.7
AGRI-GOLD A-6700			123.8	18.1	80.5	9.4
PIONEER BRAND 3184	147.5	132.4	123.7	19.7	85.7	0.6
PREMIER SX639	144.5	127.6	123.5	19.4	82.4	4.1
CARGILL 967		133.1	122.7	18.9	91.9	9.1
DH7190			122.6	17.4	89.0	13.5
NORTHRUP-KING PX83			122.3	18.0	85.2	7.6
ACCO UC7560			121.4	18.2	90.0	6.3
P.A.G. SX373		126.3	120.6	19.6	90.0	4.7
SUPER CROST 78014		137.0	119.4	19.4	78.1	5.1
COLBERT 340		137.5	118.9	21.2	85.7	2.7
RUFF'S R300A			118.8	18.0	87.6	4.3
TROJAN TXS-114	131.7	125.9	118.7	19.1	79.0	6.8
GOLD TAG 3025			118.7	18.6	84.8	7.0
CARGILL 934			117.8	18.0	88.6	5.4
SO.STATES SS775	130.4	123.8	116.5	17.8	81.9	2.5
GOLD TAG 3020	138.9	126.9	116.5	18.3	84.8	5.0
SO. STATES SS710			114.5	18.0	88.1	6.6
ASGROW RX98	132.5	124.1	113.7	18.6	82.9	10.8
DEKALB XL71		129.0	110.8	18.3	89.0	5.4
O'S GOLD SX5500A8			105.3	19.0	78.6	11.9
BALDRIDGE RX77		109.7	98.8	17.1	89.0	1.6
BALDRIDGE RX24		95.5	92.9	16.6	80.5	11.3
STEWART 6586			87.4	18.2	80.5	11.9
YELLOW AVERAGE	145.7	139.1	134.6	18.7	87.6	5.7
WHITE HYBRIDS						
AGRI-GOLD A-6955W			162.3	20.6	87.1	19.5
ZIMMERMAN Z14W			147.3	20.9	80.5	14.0
PIONEER BRAND 519W			145.8	18.2	90.5	4.2
MEACHAM'S MW88			142.0	21.6	77.6	7.4
MEACHAM'S MW78			141.2	21.0	91.9	4.7
MCNAIR X235W		133.2	135.7	20.3	75.2	10.3
DEKALB XL390B		146.4	135.1	20.4	77.6	17.3
GOLDEN HARV. H2660W	133.1	134.3	134.5	21.0	86.7	10.9
FUNK'S G4747W	153.1	142.2	134.3	21.3	94.8	18.4
ZIMMERMAN Z52W	154.8	148.1	133.5	20.5	85.2	13.7
SO. STATES SS950W	144.2	142.8	132.5	20.7	88.6	18.4
ZIMMERMAN Z11W	136.9	131.9	131.4	21.0	91.0	6.3
PRINCETON SX910W	145.7	141.5	129.8	22.3	84.8	7.3
RING AROUND RA2602W			128.3	21.2	87.6	9.6
ASGROW RX962W		134.4	123.7	20.6	80.0	7.8
WHITE AVERAGE	144.6	139.4	137.2	20.8	85.3	11.3
GRAND AVERAGE	145.6	139.1	134.9	18.9	87.3	6.4
LSD*			18.5	1.7	8.2	6.7
C.V.			10.2	6.8	6.8	78.0

* For the difference between two means to be significant the observed difference must exceed the LSD.