

# 1997 Kentucky Hybrid Corn Performance Test

William L. Pearce and C.G. Poneleit

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 1997 data is presented for the tests at each location. Two- 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 4, 6, and 7) since these are better estimates of a hybrid's 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 with another grown at a different location. Yellow endosperm hybrids are grouped into early-, mid-, and late-maturity groups based on harvest moisture. Also, those hybrids that yield equally as high as the highest yielding hybrid, based on statistical evaluation, are indicated by an asterisk. See the MATURITY COMPARISONS and the EXPERIMENTAL DESIGN AND MEANS COMPARISONS text sections for more detail.

## Testing Procedure

### Selection Of Hybrids

The hybrids chosen for testing are those most likely to be available for sale in 1998. Seed of each commercial hybrid (Table 2) was obtained from the sponsoring company.

### List of Tables

- Table 1. Precipitation at Test Locations 1997
- Table 2. Hybrids Tested in 1997
- Table 3. Agronomic Information for 1997 Test Locations
- Table 4. Annual Summary, 1997, All Non-Virus Locations
- Table 5. Annual Summary, 1997, Test Weight and Chemical Composition, 1997, all Non-Virus Locations
- Table 6. Two-Year Summary, All Non-Virus Locations, 1997-1996
- Table 7. Three-Year Summary, All Non-Virus Locations, 1997-1995
- Table 8. Annual Summary, Murray (map position 1)
- Table 9. Annual Summary, Princeton (map position 2)
- Table 10. Annual Summary, Olaton Station (map position 3)
- Table 11. Annual Summary, Elkton (map position 4)
- Table 12. Annual Summary, Bardstown (map position 5)
- Table 13. Annual Summary, Lexington (map position 6)
- Table 14. Annual Summary, Quicksand (map position 7)
- Table 15. Annual Summary, Virus Test, Lexington (map position 6)

Those hybrids grown in the corn virus test are indicated with a B in column 2 of Table 2. 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 1 shows the test locations. The non-virus test sites were selected to represent different agroclimatic areas of the state where corn is a major commodity. The virus evaluation test was planted at the Spindeltop Research Station.

### Cultural Practices

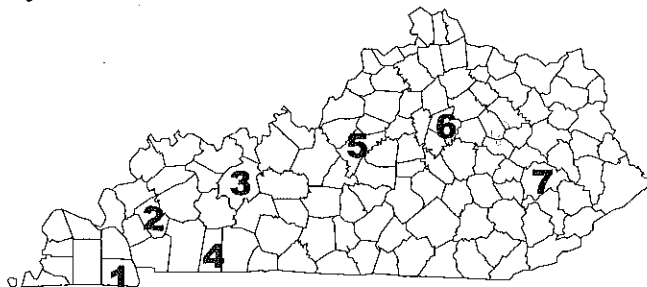
The Bardstown, Murray and Todd County test locations were planted no-till in soybean residue using recommended no-tillage practices. The Ohio and Princeton tests were planted minimum-till. The Lexington and Quicksand test locations were planted in a seedbed prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests.

All test areas were treated with herbicide(s) and supplemented by post-emergence cultivation and/or herbicide when necessary. Except for the virus test, Force was applied in the row at planting to control corn rootworms. The virus test received no insecticide. Table 3 shows the specific cultural treatment for each location.

### Experimental Design And Mean Comparisons

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 the tables are averages of three replications at the test site, while 2-year and 3-year means are averages of six and nine replications,

### Locations of the 1997 Hybrid Corn Performance Test



respectively. An 11 x 12 lattice design was used at each non-virus location. A randomized complete block (RCB) design was used at the virus location.

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) provided 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 yield ability. Consider the following example:

Variety	Yield(bu/ac)
A	135
B	125
C	110

**LSD (0.10) = 12.0**

The deviation between variety A and variety B is 10 bu/ac (135-125=10). The difference is smaller than the LSD (12 bu/ac). We can thus infer with reasonable confidence that variety A and B have the same yield in this test. However the difference between variety A and C is 25 bu/ac (135-110=25) which is larger than the LSD of (12 bu/ac). Therefore we can infer that variety A yielded more than variety C in this test. "N.S." in the tables indicates that no statistically significant differences was determined. The LSD is calculated for an alpha level of 0.10. For your convenience, an asterisk has been placed alongside those yield means that are not significantly different from the highest yield mean in that column. This comparison means that those means followed by an asterisk do not differ by more than one LSD.

The coefficient of variation (C.V.) is a measurement of the variation that exists among hybrids in a test. The C.V. expresses the amount of variation as a percentage of the hybrid mean. C.V.'s near 10% indicate an acceptable amount of unexplained variation in the testing environment and generally indicate reasonably uniform results.

### 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 30 inches apart and 22 feet long. Each plot was planted with 40 seeds/row. The plots were thinned to 33 plants/row when seedlings were 12-18 inches tall which equals to a plant population of 26,000 plants/ac.

### Harvesting

All plots were harvested with a modified two-row corn combine. Both rows of each two-row plot were picked and shelled. The grain weight and moisture content of each plot was measured with an electronic scale and moisture meter mounted on the combine. Data from each test location was temporarily stored in a portable data logging device prior to transfer to a computer at Lexington. Yields were calculated for grain at 56

pounds per bushel and adjusted to 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. One data replication at Murray, Ky and one at Bardstown, KY were deleted because of combine malfunction. Also at harvest the plots were observed for European Corn Borer damage by counting the number of broken tops per plot. Dr. Rick Bessin, Department of Entomology, University of Kentucky (personal communication) has shown a direct correlation between broken tops in the corn plant and European Corn Borer damage. On the plots checked at Lexington, over 50% of the tops were broken. At Lexington, a BT hybrid was the top yielding hybrid. The plots checked at Princeton had 25% of the tops broken. A BT hybrid was within one LSD of the highest yielding hybrid. Other locations had little top breakage.

### 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. The virus test was planted with 15 nominated hybrids and three check hybrids. The test is usually planted in a river bottom field location where numerous johnsongrass rhizomes are present. However, due to very wet conditions in the prospective virus infested (johnsongrass infested) field the virus test was planted at the Lexington location. This will be the last year for this test since field locations suitable for evaluation of corn virus resistance have become difficult to locate and results from fields chosen in several past years have not provided adequate virus resistance evaluations.

### Gray Leaf Spot

Data on the severity of gray leaf spot was not collected during the 1997 growing season as none was found at any of the locations. Prior results may be of use if Gray leaf spot is a problem in your area. Refer to 1996 results from the Elkton location and evaluations at Stanford, KY in 1995 and at Hopkinsville, KY in 1994 and earlier (contact Dr. Paul Vincelli, Department of Plant Pathology, University of Kentucky for 1995 and previous year's data).

### Maturity Comparisons

Three open-pedigree hybrids (FR1064 X FR450, FR27 X Mo17, and B73 X Pa91) were included in each non-virus test to provide an internal evaluation of hybrid maturity. The seed of these hybrids was obtained from Illinois Foundation Seeds, Inc., at Champaign, IL. They rated the relative maturities of these hybrids for Kentucky, as Early-, Mid-, and Late-Season, respectively. The seven location harvest moisture averages for 1997 were 18.7% for FR1064 X FR450, 21.0% for FR27 X Mo17, and 23.1% for B73 X Pa91 (Table 4). Harvest maturity of other hybrids in the test can be judged by comparison of harvest moisture relative to these checks and other hybrids of known maturity for your area of production.

The yellow endosperm hybrids were separated into three maturity groups. The early maturity hybrid group in Table 4, and all subsequent tables, are those hybrids that had a 1997 average harvest moisture equal to or less than 18.7%, the moisture of the early check **FR1064 x FR450**. Hybrids in the early

group were rated from 105 to 112 days maturity by the parent seed companies.

A moisture content of 23.1%, the moisture content of the late maturity hybrid **B73 x Pa91**, was determined as the lower limit of the late maturity group. All hybrids that had harvest moisture contents equal to or greater than this value were placed in the late maturity group. Hybrids in this group were rated as 118 or more days maturity by the parent seed companies.

The medium maturity group of yellow hybrids includes all hybrids with a 1997 average harvest moisture greater than 18.7% (early check average) but lower than 23.1% (late check average). Hybrids in the medium maturity group were rated from 113 to 118 days maturity by the parent seed companies.

These groupings are subjective but provide a relative evaluation of hybrid maturity. The harvest moisture or relative maturity rating of a hybrid provided by the parent company was not used to block hybrids in the field experiment. In Table 2, days to maturity (provided by the parent seed company) is listed for each hybrid.

### *Chemical Composition*

A one half pound grain sample was collected from one replication at each location at harvest. Protein, oil and starch percent were determined by Near Infrared Reflectance Spectroscopy (NIRS). These data, along with test weights are presented in Table 5.

## **Notes About The Growing Season**

### *Murray (Calloway County)*

The Murray test was planted on April 10 and thinned on June 17. Plant populations and early weed control were fair due to cool conditions. The previous crop was no-till soybeans. The third replication of this test was dropped due to mechanical malfunction of the combine at harvest.

### *Princeton (Kentucky Agricultural Experiment Station, Research and Education Center, Caldwell County)*

The Princeton test was planted on April 18 in soybean residue and was thinned on June 23. Weed control was poor due to wet conditions. There appeared to be no disease problems.

### *Elkton (Todd County)*

The Elkton test was planted on April 9 and was thinned on June 10. Weed control was poor early but by mid season weed growth was under control. Stands were excellent in the test.

### *Olaton (Ohio County)*

The Ohio Co. test was planted on May 17 and thinned on June 24. There was no apparent weed or insect problems.

### *Bardstown (Nelson County)*

The Bardstown test was planted no-till in soybean crop residue on April 25 and was thinned on June 23. Weed control was good during the entire growing season. There was no apparent disease problems. This test suffered severely from lack of timely rainfall.

### *Lexington (Kentucky Agricultural Experiment Station, Spindletop Research Farm, Fayette, County)*

The Lexington test was planted on May 5. Seedling emergence and weed control were poor and the entire test was replanted on May 20 and thinned on June 26. Late season grasses in alleyways were sprayed with Roundup. There were no apparent disease problems. There was European Corn Borer damage in the test.

### *Quicksand (Kentucky Agricultural Experiment Station, Robinson Substation, Breathitt, County)*

The Quicksand test was planted on May 10 and thinned on June 25. Early season weed control and seedling emergence were excellent for most plots. The alleyways were sprayed with Roundup to control johnsongrass and other missed weeds and grasses.

## **Note**

All Western Kentucky locations were observed for potential problems during the months of June, July, and August. Eastern Kentucky locations were checked on several occasions during the growing season.

## **Acknowledgments**

The authors sincerely appreciate the Kentucky Corn Growers Association for providing a Hege 180 combine to use during the harvest season. The combine uses the Harvest Master weighing system which provided test weight data along with yield and moisture.

The authors are also grateful to Garry Swango and the Kentucky Corn Growers Association for the Grain Quality laboratory processing more than 900 grain samples. The test weight, protein, oil and starch data are provided in the Table 5 (Annual Summary, Test Weight and Chemical Composition, 1997).

The authors also acknowledge Dr. Paul L. Cornelius for his continued support of statistical programming. The authors are grateful to Mr. John Byars, Agricultural Data Center, and to Mr. Danny Walls, Agronomy Department, for assistance in this progress report. Also, acknowledgments are made to the following people who helped conduct this year's performance test.

- Mr. James E. Roberts, *Research Technician, Department of Agronomy, Lexington, Ky*
- Dr. Morris Bitzer, *Extension Specialist in Grain Crops, Lexington Ky*
- Dr. James Herbek, *Extension Specialist in Grain Crops, Research and Extension Center, Princeton, Ky*
- Dr. Ric Bessin, *Extension Specialist in Entomology, Department of Entomology, Lexington, Ky*
- Donnie Davis, *Superintendent, Research and Education Center, Princeton, Ky*
- Mason Morrison, *Superintendent, and Harold Pelfrey, Farm manager Robinson Substation, Quicksand, Ky*
- Jay Stone, *Extension Agent, Murray, Ky*
- Jason P'Poole, *Extension Agent, Elkton, Ky*
- Greg Comer, *Extension Agent, Hartford, Ky*
- Ron Bowman, *Extension Agent, Bardstown, Ky*

**Table 1. Precipitation at Test Locations, 1997**

Month	Days	Location						
		Murray	Princeton	Elkton	Olaton	Bardstown	Lexington	Quicksand
April	1-8	0.62	0.99	0.30	0.42	0.09	0.06	0.22
	9-16	0.63*	0.88	0.20*	0.52	0.09	0.23	0.19
	17-24	1.13	1.17*	0.80	0.89	0.63*	0.41	0.59
	25-30	<u>0.39</u>	<u>0.90</u>	<u>1.40</u>	<u>0.81</u>	<u>1.03</u>	<u>1.19*</u>	<u>0.34</u>
	Total	2.77	3.94	2.70	2.64	1.84	1.89	1.34
May	1-8	1.71	1.64	0.40	2.10*	1.74	1.74	0.58*
	9-16	0.30	0.48	0.60	0.16	0.27	0.18	0.79
	17-24	0.67	0.39	0.60	1.23	1.00	0.94	0.63
	25-31	<u>1.85</u>	<u>2.82</u>	<u>1.20</u>	<u>3.26</u>	<u>2.63</u>	<u>5.98</u>	<u>3.23</u>
	Total	4.53	5.33	2.80	6.75	5.64	8.84	5.13
June	1-8	2.93	1.22	1.50	4.07	4.64	1.77	1.18
	9-16	1.13	1.91	3.00	3.92	2.48	2.72	0.76
	17-24	2.65	0.45	2.25	1.37	2.20	0.48	0.83
	25-30	<u>1.87</u>	<u>1.51</u>	<u>1.10</u>	<u>1.56</u>	<u>0.84</u>	<u>1.57</u>	<u>1.75</u>
	Total	8.58	5.09	7.85	10.92	10.16	6.54	4.52
July	1-8	0.06	0.18	1.55	0.35	0.12	0.03	0.08
	9-16	0.11	0.82	0.10	0.67	0.00	0.00	0.21
	17-24	0.44	0.82	0.25	0.17	0.31	2.62	1.51
	25-31	<u>0.65</u>	<u>0.08</u>	<u>1.10</u>	<u>0.11</u>	<u>0.18</u>	<u>0.67</u>	<u>0.42</u>
	Total	1.26	1.90	3.00	1.30	0.61	3.32	2.22
August	1-8	0.34	0.00	0.00	0.21	0.07	0.00	0.00
	9-16	1.43	1.49	2.50	1.40	1.62	0.69	0.96
	17-24	0.81	0.55	1.90	2.05	1.49	1.52	2.01
	25-31	<u>0.61</u>	<u>0.02</u>	<u>0.00</u>	<u>0.96</u>	<u>0.06</u>	<u>0.30</u>	<u>0.00</u>
	Total	3.19	2.06	4.40	4.62	3.24	2.51	2.97
Sept.	1-8	0.78	2.32	0.30	0.05	0.38	0.04	0.19
	9-16	0.12	0.12	0.40	0.97	1.77	1.50	1.51
	17-24	1.93	1.40	0.90	1.28	1.25	0.79	0.60
	25-30	<u>0.09**</u>	<u>0.05**</u>	<u>0.75**</u>	<u>0.00</u>	<u>0.00</u>	<u>0.04</u>	<u>0.12</u>
	Total	2.92	3.89	2.35	2.30	3.40	2.37	2.42
Grand Total		23.25	22.21	23.10	28.53	24.89	25.47	18.60

\* Planted. \*\* Harvested in September, all others harvested in October.

**Table 2. - Hybrids Tested in 1997**

Hybrid	Test*	Color	Days to Maturity+	Source	
AgraTech	787	A	Yellow	116	AgraTech Seed Research 5559 North 500 West McCordsville, IN 46055
	721	A	Yellow	113	
	770	A	Yellow	114	
	888	B	Yellow	117	
	967	B	Yellow	100	
	9250	B	Yellow	119	
Agventure	977	A	Yellow	112-114	Agventure P.O. Box 112 Geneseo, IL 61254
	845	A	Yellow	117	
AgniGold	A-6460	A	Yellow	109	Akin Seed Company Route 1 P.O. Box 203 St. Francesville, IL 62460
	A-6725	A	Yellow	116	
	A-6590	A	Yellow	112	
	A-6680W	A	White	118	
	A-6535W	A	White	113	
Asgrow	9292	A	Yellow	118	Asgrow Seed Company Highway 80 and Outer Road V P.O. Box 109 Matthews, MO 63867
	RX760	A	Yellow	109	
	RX771	A	Yellow	109	
	RX813	A	Yellow	114	
	RX816W	A	White	113	
	RX921W	A	White	119	
	RX795W	A	White	110	
Beck's	5415	A	Yellow	114	Beck's Superior Hybrids 6767 E. 276th Street Atlanta, IN 46031
	5405	A	Yellow	110	
	6205	A	Yellow	113	
	8280	A	Yellow	117	
	87MDM	B	Yellow	124	
	5912W	A	White	112	

**Table 2. - Hybrids Tested in 1997 (continued)**

	Hybrid	Test*	Color	Days to Maturity+	Source
Bo-Jac	4801	A	Yellow	116	Bo-Jac Hybrid Corn Company 245 1500th Ave Mount Pulaski, IL 62548
	415	A	Yellow	109	
	605	A	Yellow	114	
	614	A	Yellow	115	
	567	A	Yellow	113	
	544	A	Yellow	113	
Callahan	C7557	A	Yellow	110	Callahan Seeds 1122 East 169th St. P.O. Box 367 Westfield, IN 46074
	C7761	A	Yellow	111	
	C7762	A	Yellow	113	
Cargill	7770	A	Yellow	113	Cargill Seeds P.O. Box 5645 Minneapolis, MN 55440
	6888	A	Yellow	109	
Caverndale Farms	CF9652	A	Yellow	118	Caverndale Farms 1921 Bluegrass Road Danville, KY 40422
	CF840	A	Yellow	114	
	CF9544	A	Yellow	116	
	CF920W	A	Yellow	118	
	CF9542	B	Yellow	119	
	CF9753	A	Yellow	120	
Colbert	220	A	Yellow	113	Colbert Farms R. R. #2 P.O. Box 311 Washington, IN 47501
	330	A	Yellow	119	
	324	A	Yellow	118	
Crow's	550	A	Yellow	116	Crow's Hybrid Corn Company Box 306 Milford, IL 60953
	496	A	Yellow	112	
	685	A	Yellow	116	
	668	A	Yellow	116	
	702	AB	Yellow	123	
DeKalb	DK626	A	Yellow	112	DEKALB Genetics Corp. 3100 Sycamore Road DeKalb, IL 60115
	DK642	A	Yellow	114	
	DK658	A	Yellow	115	
	DK618	A	Yellow	111	
	DK683	AB	Yellow	118	
	DK687	AB	Yellow	118	
	DK679	A	Yellow	117	
	DK743	AB	Yellow	124	
	DK706	A	Yellow	120	
Exsegen	ES217	A	Yellow	112	Miles Seed 2760 Keller Rd. Owensboro, KY 42301
	ES617	A	Yellow	116	
Garst	N5254	A	Yellow	118	Garst Seed Co. Rt 2 Box 142 Bowling Green, MO 63334
	8220	A	Yellow	120	
	8315	A	Yellow	116	
	N52251T	A	Yellow	119	
Glick Seed	GH727	A	Yellow	115	Glick Seed Service 16801 E-100N Hartsville, IN 47224
	GH705	A	Yellow	113	
Great Lakes	6631	A	Yellow	116	Great Lakes Hybrids 9915 W-21 P.O. Box 637 Ovid, MI 48866
	6317	A	Yellow	113	
	5849	A	Yellow	108	
Golden Harvest	H2611	A	Yellow	114	Golden Harvest R.R. 3, Box 257 Clinton, IL 61727
	H2622	A	Yellow	116	
	H2641	A	Yellow	117	
	H2547	A	Yellow	111	
	H2581	A	Yellow	114	
	H2588	A	Yellow	114	
	373	A	Yellow	118	
L G Seeds	LG2726	A	Yellow	117	LG Seeds Windfall Service Center PO Box 457 RT 213 S. Windfall, IN 46076
	LG2705	A	Yellow	116	
	LG749W	A	White	114	
Mycogen	2868	A	Yellow	118	Mycogen Plant Sciences 3600 N. Columbia Plainview, TX 79072
	2815	A	Yellow	115	
	2888	A	Yellow	118	
	8460	B	Yellow	119	
Novartis	N73-Q3	A	Yellow	112-116	Novartis Seed Inc. 410 Woodbridge Rd Somerville, TN 38068
	N4575	A	Yellow	114	
	N70-D5	A	Yellow	114	
	N7639BT	A	Yellow	113-117	
	N7931	A	Yellow	114-118	

**Table 2. - Hybrids Tested in 1997 (continued)**

	Hybrid	Test*	Color	Days to Maturity+	Source
Pfister Hybrids	3049	A	Yellow	112	Pfister Hybrid Corn Co. P.O. Box 187 El Paso, IL 61738
	3977	A	Yellow	116	
Pioneer Brand	3140	A	Yellow	118	Pioneer Hi-Bred Int'l. 6767 Old Madison Pike Suite 110 Huntsville, AL 35806
	3245	A	Yellow	115	
	32K61	A	Yellow	114	
	3260	A	Yellow	115	
	33A14BT	A	Yellow	113	
	33V08BT	A	Yellow	111	
	33Y09BT	A	Yellow	113	
	3394	A	Yellow	110	
	33Y18	A	Yellow	112	
	3335	A	Yellow	113	
	32H39W	A	White	114	
	3203W	A	White	118	
	Southern States	SS943	AB	Yellow	
SS676		A	Yellow	112	
SS827		A	Yellow	119	
SS797IT		A	Yellow	111	
SS767		A	Yellow	114	
SS747		A	Yellow	115	
SS897		B	Yellow	120	
SS828		A	Yellow	119	
SS757W	A	White	115		
Sunstar	4315	A	Yellow	115	Sunstar Hybrids 14993 State Road 17 Culver, OH 46511-9642
	4316	A	Yellow	114	
Terra Seed	TR 1157	A	Yellow	115	Terra International, Inc. 600 Fourth Street P.O. Box 6000 Sioux City, IA 51102-6000
	TR 1167	A	Yellow	117	
	TR 1176	A	Yellow	117	
	TR 1154	A	Yellow	115	
	TR 702	A	Yellow	120	
	TR 1185	B	Yellow	118	
	EX 1186	B	Yellow	118	
Vigoro	V 5770	A	Yellow	115-117	Vigoro Seed 729 Cloud Dr. Clarksville TN.37043
	V-5970	A	Yellow	117-119	
	V1204A	B	Yellow		
Vineyard	V-448W	A	White	115	Vineyard Seed Co., Inc. P.O. Box 139 Sidney, IL 61877
	V-453W	A	White	117	
	VX-4596	A	Yellow	118	
Wilson	1780-W	A	White	113	Wilson Seeds P.O. Box 391 East Hwy. 44 Harlan, IA 51537
	9352-W	A	White	115	
	1790-W	A	White	114	
Zimmerman	Z37	A	Yellow	113	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712
	Z41	A	Yellow	108	
	Z29	A	Yellow	113	
	Z39	A	Yellow	114	
	Z62W	A	White	112	
	Z72W	A	White	114	
	Z64W	A	White	114	
	Z73W	A	White	112	
K.A.E.S.	FR1064xFR450	AB	Yellow	112	Illinois Found. Seeds, Inc. P.O. Box 722 Champaign, IL 61820
	FR27xMo17	AB	Yellow	115	
	B73XPa91	AB	Yellow	119	

\* A - Performance Test, B - Virus Test  
+ Data provided by seed companies.

**Table 3. - Agronomic Information Pertaining to 1997 Test Locations**

Location and Cooperator	Soil Type	Fertilizer lb/ac	Herbicide	Insecticide	Planting Dates	Harvest Dates
1) Murray, KY Richards Jones Farm	Calloway Silt Loam	N -175 P <sub>2</sub> O <sub>5</sub> - 0 K <sub>2</sub> O - 90	Atrazine Harness	Force 1.5G	April 10	Sept. 30 & Oct 2
2) Princeton, KY Western Kentucky Res. & Ed. Center	Huntington & Lindsie Silt Loam	N -175 P <sub>2</sub> O <sub>5</sub> - 0 K <sub>2</sub> O - 0	Beacon Bullet Gramaxone	Force 1.5G	April 17	Sept. 25 & 26
3) Olaton, KY Darren Luttrell Farm	Nolin Silt Loam	N -200 P <sub>2</sub> O <sub>5</sub> -70 K <sub>2</sub> O - 90	Atrazine Warrior Gramaxone	Force 1.5G	May 7	Oct. 14
4) Elkton, KY Allen Franks Farm	Pembroke	N -163 P <sub>2</sub> O <sub>5</sub> - 18 K <sub>2</sub> O - 0	Ambush Bicep II Accent Aatrex & Weedone	Force 1.5G	April 9	Sept. 22 & 23
5) Bardstown, KY Rick Lawson Farm	Pembroke Loam	N -142 P <sub>2</sub> O <sub>5</sub> - 70 K <sub>2</sub> O - 90	Simazine 2,4-D Gramoxone Atrex	Force 1.5G	April 24	Oct. 7
6) Lexington, KY K.A.E.S. Spindletop Farm	Lanton Silt Loam	N -225 P <sub>2</sub> O <sub>5</sub> - 0 K <sub>2</sub> O 100	Bullett	Force 1.5G None*	May 21 May 31*	Oct 16 & Oct 17 Oct. 23*
7) Quicksand, KY Robinson Forest Station	Philo Silt Loam	N -154 P <sub>2</sub> O <sub>5</sub> - 20 K <sub>2</sub> O - 20	Bullett Beacon Banvel	Force 1.5G	May 5	Oct. 9 & 10

\* Virus test.

**Table 4. Annual Summary, 1997, All Non-virus Locations**

BRAND/HYBRID	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS (&lt; OR = 18.7 HARVEST MOISTURE)</b>				
PIONEER BRAND 3335	166.3*	18.7	99.8	0.1
PIONEER BRAND 33Y18	164.5*	18.7	99.3	0.4
PIONEER BRAND 33A14BT	163.2*	18.4	100.0	0.8
BECKS 6205	156.6	18.6	99.8	0.3
PIONEER BRAND 3394	153.8	17.9	99.9	1.0
DEKALB DK626	150.4	18.2	99.3	0.4
AKIN A6590	149.1	18.6	100.0	0.3
BO-JAC 415	148.5	18.1	99.9	0.9
CROW'S 496	146.0	18.4	100.0	0.3
NK BRAND N70-D5	145.0	18.4	100.0	0.3
BO-JAC 544	144.1	18.5	98.7	0.4
AKIN A6460	142.8	18.3	99.9	0.5
BECKS 5415	142.6	18.5	98.6	0.1
COLBERT FARMS 220	142.2	17.8	99.2	0.6
GREAT LAKES 5849	141.4	17.8	100.0	0.3
SO. STATES SS676	141.4	18.3	98.3	0.5
ASGROW RX760	141.3	18.2	99.0	0.3
FR1064 X FR450	126.2	18.7	93.2	0.5
EARLY YELLOW AVERAGE	148.0	18.3	99.1	0.4
<b>MEDIUM YELLOW HYBRIDS (&gt; 18.7 AND &lt; 23.1 HARVEST MOISTURE)</b>				
SO. STATES SS828	169.8*	21.0	99.0	0.0
PIONEER BRAND 3260	168.8*	21.7	99.9	0.6
PFISTER 3977	159.3	21.3	100.0	0.4
EXSEGEN ES617	158.0	21.6	99.9	0.2
CAVERDALE FM CF9652	157.9	20.5	100.0	0.6
VIGORO V5970	157.7	22.2	98.3	0.5
DEKALB DK679	157.3	21.8	99.9	0.3
PIONEER BRAND 3140	156.2	22.8	94.5	0.1
GARST N5225IT	156.1	22.9	96.9	0.0
PIONEER BRAND 32K61	155.9	20.1	100.0	0.2
CARGILL 7770	154.5	20.0	98.3	0.3
DEKALB DK687	154.2	21.8	97.3	0.5
NK BRAND N7639BT	154.2	19.8	99.9	0.4
TERRA SEED TR1154	154.2	21.1	98.5	0.3
L.G. SEEDS LG2726	154.1	22.4	99.8	0.6
DEKALB DK658	153.7	19.7	99.2	0.2
NK BRAND N7931	153.0	21.0	99.9	0.6
GARST N5254	152.5	22.4	99.0	0.4
PIONEER BRAND 33V08BT	152.5	19.1	100.0	0.2
BO-JAC 605	152.0	23.0	99.7	0.3
ZIMMERMAN Z37	152.0	23.0	99.9	0.6
GREAT LAKES 6631	151.9	21.6	99.9	0.3
ASGROW 9292	151.7	21.8	99.9	0.1
PIONEER BRAND 33Y09BT	151.7	18.9	100.0	0.2
TERRA SEED TR1176	151.4	21.7	99.2	0.4
BO-JAC 614	150.8	20.8	99.0	0.4
BO-JAC 4801	150.5	22.4	100.0	0.2
DEKALB DK683	150.5	22.3	97.9	0.2
COLBERT FARMS 330	149.3	22.5	99.3	0.2
CAVERDALE FM CF9544	148.9	18.9	99.1	0.0
MYCOGEN 2815	148.8	19.9	99.9	0.0
AKIN A6725	148.7	22.4	99.4	0.2
GLICK SEED GH727	148.7	19.1	98.9	0.1
PIONEER BRAND 3245	148.7	20.5	100.0	0.0
ZIMMERMAN Z39	148.6	20.6	99.9	0.6
AGVENTURE A.V.845	148.1	19.6	93.0	0.1
AGVENTURE A.V.977	147.5	22.0	100.0	0.4
PFISTER 3049	147.3	18.9	99.9	0.2
CROW'S 668	147.1	21.7	99.5	0.2
GOLDEN HARVEST 373	147.1	21.5	99.9	0.9
GOLDEN HARVEST H-2547	147.1	18.9	100.0	0.6
SUNSTAR 4315	146.6	20.7	100.0	0.1
ZIMMERMAN Z41	146.6	19.8	98.9	0.5
DEKALB DK642	146.4	19.0	99.6	0.5
TERRA SEED E1157	145.9	21.5	99.0	0.3
AGRATECH ATX770	145.5	21.4	99.9	0.2
SO. STATES SS827	145.3	22.7	100.0	0.1
GOLDEN HARVEST H-2588	145.2	19.5	98.8	0.3
L.G. SEEDS LG2705	145.2	22.5	99.7	0.2
DEKALB DK706	145.1	21.9	99.4	0.2
NK BRAND N73-Q3	144.9	20.0	100.0	0.0
ASGROW RX813	144.8	20.0	99.2	0.2
BECKS 8280	144.7	21.8	99.9	0.3
CALLAHAN C7557	144.2	19.3	99.5	0.3
GLICK SEED GH705	143.7	19.6	94.7	0.3
BECKS 5405	143.6	18.8	99.9	0.5



**Table 4. Annual Summary, 1997, (continued)**

BRAND/HYBRID	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
GARST 8315	143.4	21.7	95.7	0.4
BO-JAC 567	143.3	19.1	100.0	0.5
CALLAHAN C7762	143.2	19.2	97.8	0.1
CARGILL 6888	143.2	19.1	99.5	0.3
CAVERNDALE FM. CF840	142.8	21.1	97.5	0.5
AGRATECH ATX721	142.5	19.3	98.9	0.3
SO. STATES SS747	142.5	21.0	99.5	0.2
FR27 X M017	141.8	21.0	92.8	0.4
VINEYARD VX4596	141.7	23.0	100.0	0.4
MYCOGEN 2868	141.5	21.9	99.9	0.3
EXSEGEN ES217	141.3	19.5	93.1	0.2
CROW'S 685	141.0	21.5	99.2	0.2
VIGORO V5770	140.7	19.0	97.8	0.0
SO. STATES SS797IT	139.7	20.4	97.5	0.3
AGRATECH ATX787	139.5	22.0	99.3	0.5
DEKALB DK618	139.3	18.9	99.8	0.2
GOLDEN HARVEST H-2641	138.9	21.9	98.6	0.1
SUNSTAR 4316	138.9	19.0	98.7	0.3
GOLDEN HARVEST H-2622	138.6	22.1	98.4	0.9
ASGROW RX771	138.2	19.5	99.8	0.5
CROW'S 550	137.7	18.9	94.8	0.4
CALLAHAN C7761	137.1	18.8	100.0	0.3
TERRA SEED TR1167	137.1	22.3	99.8	0.3
COLBERT 324	137.0	22.2	97.9	0.3
GOLDEN HARVEST H-2611	136.3	19.1	98.5	0.3
NK BRAND N4575	134.5	20.9	95.1	0.2
GOLDEN HARVEST H-2581	134.0	20.5	100.0	0.3
GREAT LAKES 6317	131.6	19.4	100.0	0.3
SO. STATES SS767	130.6	19.5	100.0	0.4
MEDIUM YELLOW AVERAGE	146.9	21.0	98.8	0.3
<b>LATE YELLOW HYBRIDS (= OR &gt; 23.1 % HARVEST MOISTURE)</b>				
SO. STATES SS943	161.5*	23.4	99.9	0.5
GARST 8220	158.5	23.3	99.3	0.4
CROW'S 702	151.8	24.1	98.5	0.2
DEKALB DK743	150.3	23.6	99.8	0.4
ZIMMERMAN Z29	148.1	23.1	99.2	0.5
MYCOGEN 2888	147.6	23.3	99.9	0.0
CAVERNDALE FM. CF9753	143.3	23.9	99.6	0.1
TERRA SEED TR702	137.1	24.5	99.9	0.4
B73 X PA91	127.2	23.1	94.5	0.7
LATE YELLOW AVERAGE	147.2	23.5	98.9	0.3
ALL YELLOW AVERAGE	147.0	20.6	98.9	0.3
<b>WHITE HYBRIDS</b>				
BECKS 5912W	150.6	21.2	98.2	0.5
WILSON SEEDS 1780W	149.7	22.5	99.5	1.1
ASGROW RX921W	149.6	24.4	99.4	0.4
PIONEER BRAND 3203W	149.3	23.2	99.5	0.2
WILSON SEEDS 1790W	146.1	21.4	98.5	0.2
AKIN A6535W	144.7	21.7	94.9	0.0
ZIMMERMAN Z62W	143.5	21.5	97.0	0.1
ZIMMERMAN Z64W	142.8	23.4	98.4	0.5
SO. STATES SS757W	140.1	22.4	99.2	0.9
L.G. SEEDS LG749W	139.2	22.3	98.6	0.4
ZIMMERMAN Z72W	138.4	22.3	99.4	0.2
CAVERNDALE FM. CF920W	137.1	21.9	90.4	0.4
PIONEER BRAND 32H39W	137.1	21.2	99.8	0.4
ZIMMERMAN Z73W	133.8	21.2	99.9	0.1
AKIN A6680W	133.6	23.4	99.9	0.1
ASGROW RX795W	133.6	22.5	97.8	0.2
ASGROW RX816W	133.2	22.0	99.6	0.4
WILSON SEEDS 9352W	129.3	25.4	98.9	0.2
VINEYARD V-453W	128.5	22.4	99.9	0.3
VINEYARD V-448W	128.1	22.8	100.0	0.3
WHITE AVERAGE	139.4	22.4	98.4	0.3
GRAND AVERAGE	145.9	20.8	98.8	0.3
LSD (0.10)	10.0	0.8	2.6	0.5

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 5. Annual Summary, Test Weight and Chemical Composition, 1997,  
Average of all Non-Virus Locations**

BRAND/HYBRID	TEST WEIGHT	PROTEIN	OIL	STARCH
	<i>lbs/bu</i>	<i>.....% dry wt.....</i>		
AGRATECH ATX787	52.9	9.3	4.5	71.7
AGRATECH ATX721	57.1	8.8	4.6	72.2
AGRATECH ATX770	53.3	8.6	4.5	72.9
AGVENTURE A.V.845	52.3	9.1	4.2	72.3
AGVENTURE A.V.977	55.3	8.8	4.8	71.9
AKIN A6460	55.5	9.1	4.0	72.7
AKIN A6535W	55.3	8.6	4.2	72.8
AKIN A6590	55.2	8.9	4.3	72.4
AKIN A6680W	55.8	9.1	4.5	71.9
AKIN A6725	55.0	8.6	4.6	72.5
ASGROW 9292	56.5	9.0	4.2	72.4
ASGROW 921W	56.7	8.6	4.5	72.6
ASGROW RX760	57.6	9.4	4.2	71.9
ASGROW RX771	57.0	9.2	4.4	71.9
ASGROW RX795W	53.7	9.2	4.4	72.1
ASGROW RX813	54.2	8.8	4.3	72.7
ASGROW RX816W	59.2	9.0	4.5	72.0
BO-JAC 567	53.8	8.8	4.2	72.7
B73 X PA91	53.4	9.1	4.3	72.2
BECKS 8280	55.3	9.1	4.6	71.9
BECKS 5405	53.7	8.8	4.3	72.7
BECKS 5912W	58.0	9.3	4.3	71.9
BECKS 6205	52.2	8.5	4.3	73.1
BECKS 5415	54.0	8.7	4.4	72.5
BO-JAC 415	56.2	9.0	4.4	72.2
BO-JAC 4801	55.5	8.9	4.5	72.1
BO-JAC 544	54.4	8.8	4.3	72.6
BO-JAC 605	53.8	8.9	4.3	72.6
BO-JAC 614	55.3	9.0	4.4	72.3
CALLAHAN C7557	56.7	8.6	4.4	72.7
CALLAHAN C7761	53.4	8.7	4.2	72.9
CALLAHAN C7762	55.6	9.2	4.3	72.2
CARGILL 6888	53.6	8.5	4.3	73.0
CARGILL 7770	53.8	8.7	4.2	72.8
CAVERNDALE FM. CF9544	55.0	8.7	4.3	72.6
CAVERNDALE FM. CF9652	52.9	8.9	4.1	72.8
CAVERNDALE FM. CF9753	53.9	9.3	4.3	72.0
CAVERNDALE FM. CF840	51.8	8.9	4.2	72.6
CAVERNDALE FM. CF920W	56.2	8.9	4.2	72.7
COLBERT FARMS 324	58.6	9.2	4.3	72.3
COLBERT FARMS 220	52.8	9.0	4.4	72.4
COLBERT FARMS 330	55.9	8.9	4.6	72.1
CROW'S 496	55.4	8.7	4.3	72.7
CROW'S 550	53.5	8.6	4.2	73.1
CROW'S 668	55.0	8.8	4.1	73.1
CROW'S 685	55.1	8.7	4.5	72.7
CROW'S 702	52.8	9.4	4.2	72.0
DEKALB DK687	54.2	8.7	4.3	72.8
DEKALB DK618	56.4	8.8	4.2	72.9
DEKALB DK626	55.9	8.9	4.0	72.7
DEKALB DK642	54.6	8.9	4.3	72.6
DEKALB DK658	56.0	9.2	4.1	72.4
DEKALB DK679	56.0	8.7	4.5	72.5
DEKALB DK683	58.3	9.3	4.5	71.9
DEKALB DK706	55.5	8.9	4.2	72.8
DEKALB DK743	56.4	9.4	4.4	71.8
EXSEGEN ES217	54.3	9.1	4.4	72.3
EXSEGEN ES617	56.4	9.3	4.2	72.3
FR1064 X FR450	52.3	8.7	4.3	72.7
FR27 X M017	55.9	8.9	4.3	72.5
GARST 8220	53.4	9.2	4.3	72.0
GARST 8315	55.2	8.7	4.3	72.6
GARST N52251T	56.1	9.4	4.1	72.2
GARST N5254	55.3	8.7	4.6	72.4
GLICK SEED GH705	56.2	9.0	4.4	72.3
GLICK SEED GH727	55.9	9.0	4.3	72.5
GOLDEN HARVEST 373	55.3	9.0	4.5	72.1
GOLDEN HARVEST H-2547	56.2	8.9	4.4	72.4
GOLDEN HARVEST H-2581	55.2	9.3	4.3	72.0
GOLDEN HARVEST H-2588	53.0	8.5	4.2	73.1
GOLDEN HARVEST H-2611	55.4	9.0	4.4	72.3
GOLDEN HARVEST H-2622	54.8	9.0	4.3	72.5
GOLDEN HARVEST H-2641	55.9	8.8*	4.3*	72.6*

**Table 5. Annual Summary, Test Weight and Chemical Composition (continued)**

BRAND/HYBRID	TEST	PROTEIN	OIL	STARCH
	WEIGHT			
	<i>lbs/bu</i>	<i>.....% dry wt.....</i>		
GREAT LAKES 5849	56.7	8.5	4.3	72.9
GREAT LAKES 6317	55.4	9.1	4.3	72.3
GREAT LAKES 6631	53.9	8.4	4.3	72.8
L.G. SEEDS LG2705	55.2	9.0	4.4	72.3
L.G. SEEDS LG749W	56.8	8.7	4.5	72.6
LG SEEDS LG2726	55.3	8.8	4.3	72.6
MYCOGEN 2815	55.8	9.1	4.1	72.5
MYCOGEN 2868	53.4	9.2	4.5	71.9
MYCOGEN 2888	55.3	8.7	4.3	72.7
NK BRAND 7639BT	53.9	9.0	4.2	72.4
NK BRAND N4575	56.4	8.9	4.5	72.2
NK BRAND N70-D5	53.5	8.8	4.4	72.4
NK BRAND N73-Q3	55.9	9.3	4.1	72.4
NK BRAND N7931	56.5	8.9	4.0	72.9
PFISTER 3049	57.4	9.4	4.3	71.9
PFISTER 3977	55.7	8.8	4.2	72.8
PIONEER BRAND 3260	56.9	8.9	4.1	72.8
PIONEER BRAND 3335	55.4	8.8	4.2	72.8
PIONEER BRAND 3140	53.4	8.6	4.3	72.9
PIONEER BRAND 3203W	57.2	8.7	4.2	72.9
PIONEER BRAND 3245	56.5	8.5	4.0	73.3
PIONEER BRAND 32H39W	58.8	9.4	4.3	72.0
PIONEER BRAND 32K61	59.0	8.9	4.2	72.6
PIONEER BRAND 3394	55.8	9.4	4.3	71.9
PIONEER BRAND 33A14BT	56.5	8.6	4.0	73.1
PIONEER BRAND 33V08BT	57.2	8.8	4.1	72.8
PIONEER BRAND 33Y09BT	57.5	8.5	3.9	73.4
PIONEER BRAND 33Y18	59.4	9.0	4.2	72.7
SO. STATES SS676	52.9	8.6	4.2	72.9
SO. STATES SS757W	56.9	9.2	4.6	71.8
SO. STATES SS827	56.2	9.1	4.6	72.2
SO. STATES SS943	56.0	8.8	4.4	72.7
SO. STATES SS747	54.9	9.0	4.3	72.3
SO. STATES SS767	53.9	9.1	4.4	72.0
SO. STATES SS797IT	55.5	9.1	4.2	72.4
SO. STATES SS828	52.0	8.9	4.6	72.1
SUNSTAR 4316	54.7	9.0	4.4	72.4
SUNSTAR 4315	55.3	9.2	4.3	72.2
TERRA SEED E1157	56.4	8.8	4.6	72.4
TERRA SEED TR1176	54.9	8.9	4.6	72.1
TERRA SEED TR702	54.4	9.1	4.3	72.3
TERRA SEED TR1154	58.1	8.7	4.3	72.7
TERRA SEED TR1167	53.7	8.8	4.3	72.8
VIGORO V5770	49.5	8.4	4.3	73.2
VIGORO V5970	55.6	8.7	4.6	72.3
VINEYARD V-448W	52.7	8.7	4.5	72.6
VINEYARD V-453W	55.2	9.0	4.3	72.5
VINEYARD VX4596	56.4	8.9	4.5	72.1
WILSON SEEDS 1780W	54.0	9.0	4.6	72.1
WILSON SEEDS 1790W	54.8	8.9	4.5	72.4
WILSON SEEDS 9352W	53.0	9.9	4.4	71.2
ZIMMERMAN Z29	54.2	9.0	4.5	72.4
ZIMMERMAN Z37	57.4	9.2	4.8	72.0
ZIMMERMAN Z39	52.5	8.8	4.1	73.2
ZIMMERMAN Z41	54.7	9.0	4.6	72.2
ZIMMERMAN Z62W	56.7	9.0	4.1	72.6
ZIMMERMAN Z64W	55.7	9.2	4.3	72.3
ZIMMERMAN Z72W	55.5	9.0	4.3	72.5
ZIMMERMAN Z73W	56.4	9.1	4.4	72.3
<b>AVERAGES BY LOCATION</b>				
PRINCETON	53.1	9.0	4.2	72.5
OHIO CO.	58.3	7.9	4.4	73.5
ELKTON	58.3	8.9	4.4	72.4
MURRAY	56.7	7.9	4.3	73.5
LEXINGTON	55.6	9.6	4.3	71.8
QUICKSAND	53.6	8.9	4.4	72.8
NELSON	51.4	10.3	4.4	70.6
GRAND AVERAGE	55.2	8.9	4.3	72.4

\* Data from Quicksand missing.  
 Note: One replication sampled at each location.

**Table 6. Two-Year Summary 1996-1997, All Non-virus Locations**

BRAND/HYBRID	YIELD BU/AC 96-97	AVG % MOIST 96-97	AVG % STAND 96-97	TOT % LODGED 96-97
<b>EARLY YELLOW HYBRIDS</b>				
BECKS 6205	178.1*	18.6	96.4	1.2
PIONEER BRAND 3335	172.5*	18.8	96.1	1.5
CROW'S 496	167.3	18.3	98.1	1.0
NK BRAND N70-D5	161.5	18.4	95.5	0.9
DEKALB DK626	161.0	18.2	95.7	1.5
BO-JAC 415	160.7	18.2	96.3	2.5
SO. STATES SS676	160.7	18.7	97.0	1.5
PIONEER BRAND 3394	160.6	18.1	96.6	1.2
FR1064 X FR450	138.6	18.6	92.5	1.3
EARLY YELLOW AVERAGE	162.1	18.4	96.2	1.3
<b>MEDIUM YELLOW HYBRIDS</b>				
PIONEER BRAND 3260	178.4*	21.2	96.5	2.0
PIONEER BRAND 3140	174.8*	21.8	93.9	1.1
L.G. SEEDS LG2726	171.7*	21.5	96.6	0.7
AKIN A6725	170.7*	21.3	96.3	1.6
CARGILL 7770	170.3*	19.4	96.1	1.3
GARST 8315	170.3*	20.9	94.6	2.9
NK BRAND N7639BT+	170.1*	20.3	96.5	1.2
NK BRAND N7931	169.1	20.2	95.6	2.4
DEKALB DK706	169.1	21.3	95.9	1.7
TERRA SEED TR1154	168.7	20.2	96.8	1.5
DEKALB DK687	167.6	21.4	95.3	1.5
PIONEER BRAND 3245	167.0	20.0	97.4	1.4
DEKALB DK658	166.9	19.5	96.4	2.2
L.G. SEEDS LG2705	166.4	21.4	96.5	1.2
BECKS 8280	166.1	21.1	96.7	2.6
DEKALB DK683	165.6	21.7	95.3	0.7
BO-JAC 605	165.5	21.6	97.7	2.4
ASGROW RX771	165.2	19.2	97.2	1.5
MYCOGEN 2868	164.7	21.2	97.0	1.1
ZIMMERMAN Z37	164.6	22.0	96.8	2.7
BO-JAC 614	164.3	20.4	94.4	1.2
CROW'S 685	163.4	20.4	96.7	1.3
SO. STATES SS827	163.4	21.3	95.7	0.8
TERRA SEED E1157	163.2	20.6	96.1	1.4
BECKS 5405	163.0	18.9	97.7	1.7
CAVERNDAL FM. CF840	163.0	20.4	96.1	1.7
NK BRAND N4575	162.9	20.6	93.8	1.0
CROW'S 668	162.7	20.7	97.1	0.9
CAVERNDAL FM. CF9544	162.3	19.2	95.1	1.3
DEKALB DK642	161.9	19.0	95.3	1.5
ZIMMERMAN Z41	161.8	19.3	96.4	1.1
GOLDEN HARVEST H-2622	161.4	21.3	96.5	1.2
GLICK SEED GH727	161.2	19.2	96.0	1.4
TERRA SEED TR1167	161.0	21.1	97.0	0.9
CALLAHAN C7557	160.0	18.7	96.8	1.1
PFISTER 3049	159.9	19.0	95.5	0.9
CALLAHAN C7762	159.3	18.7	96.0	0.7
AGRATECH ATX787	159.0	20.9	97.1	2.5
AGRATECH ATX770	158.2	20.8	96.7	1.5

**Table 6. Two-Year Summary (continued)**

BRAND/HYBRID	YIELD BU/AC 96-97	AVG % MOIST 96-97	AVG % STAND 96-97	TOT % LODGED 96-97
GLICK SEED GH705	158.1	19.4	94.1	1.2
COLBERT 324	157.7	21.5	96.7	1.5
GOLDEN HARVEST 373	157.1	20.7	96.4	1.9
SO. STATES SS747	156.8	20.2	96.5	1.8
AGRATECH ATX721	156.5	19.2	96.2	1.1
GOLDEN HARVEST H-2641	156.1	20.7	95.9	0.8
COLBERT FARMS 220	155.3	18.0	95.4	1.4
CALLAHAN C7761	155.2	18.6	96.1	0.9
FR27 X M017	154.5	20.3	93.4	1.1
GOLDEN HARVEST H-2611	153.5	18.9	96.7	1.8
MEDIUM YELLOW AVERAGE	163.4	20.3	96.0	1.4
<b>LATE YELLOW HYBRIDS</b>				
MYCOGEN 2888	177.4*	21.6	96.9	1.7
SO. STATES SS943	172.7*	22.7	96.2	1.5
GARST 8220	171.4*	22.7	96.1	1.5
DEKALB DK743	171.3*	22.7	96.8	2.2
CROW'S 702	168.1	22.9	95.3	1.5
ZIMMERMAN Z29	164.7	21.5	95.8	3.1
B73 X PA91	146.2	22.4	94.5	2.6
LATE YELLOW AVERAGE	167.4	22.3	96.0	2.0
ALL YELLOW AVERAGE	163.6	20.2	96.2	1.5
<b>WHITE HYBRIDS</b>				
PIONEER BRAND 3203W	172.9*	22.1	96.7	1.7
ZIMMERMAN Z64W	162.7	22.4	96.2	1.4
ZIMMERMAN Z62W	161.9	21.0	95.8	1.5
CAVERNDAL FM. CF920W	155.8	20.8	91.5	1.5
AKIN A6680W	154.8	21.9	96.9	1.4
ZIMMERMAN Z72W	153.8	21.7	97.3	2.8
AKIN A6535W	152.7	21.0	93.6	1.5
L.G. SEEDS LG749W	152.0	21.3	97.1	1.1
SO. STATES SS757W	151.6	21.3	96.6	2.6
ZIMMERMAN Z73W	151.1	20.5	97.1	1.1
ASGROW RX795W	147.9	21.2	96.1	2.7
VINEYARD V-453W	143.1	21.5	96.6	0.7
VINEYARD V-448W	142.2	21.9	98.2	1.1
WHITE AVERAGE	154.0	21.4	96.1	1.6
GRAND AVERAGE	162.2	20.4	96.0	1.5
LSD (0.10)	8.8	0.6	1.8	1.5

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

+ NK Brand 7639BT: This average includes two late planted locations in 1996.



**Table 7. Three-Year Summary 1995-1997, All Non-Virus Locations**

BRAND/HYBRID	YIELD BU/AC 95-97	AVG % MOIST 95-97	AVG % STAND 95-97	TOT % LODGED 95-97
<b>EARLY YELLOW HYBRIDS</b>				
DEKALB DK626	151.9	17.3	94.6	1.8
PIONEER BRAND 3394	150.1	17.1	95.5	1.5
SO. STATES SS676	145.8	17.7	95.9	1.5
FR1064XFR450	134.8	17.5	93.3	1.7
EARLY YELLOW AVERAGE	145.6	17.4	94.8	1.7
<b>MEDIUM YELLOW HYBRIDS</b>				
PIONEER BRAND 3140	162.1*	20.1	93.5	1.4
GARST 8315	160.7*	19.5	94.8	3.0
PIONEER BRAND 3245	158.4*	18.6	95.9	1.5
BECKS 8280	158.3*	19.7	95.6	2.4
DEKALB DK706	157.3*	20.1	95.2	1.9
TERRA SEED TR1154	156.7	18.7	94.9	1.6
DEKALB DK683	156.4	20.0	94.3	1.2
L.G. SEEDS LG2705	155.6	19.7	95.3	1.3
ZIMMERMAN Z29	155.2	19.9	95.0	2.4
CROW'S 668	154.9	19.3	96.2	1.1
CROW'S 685	154.7	18.9	95.6	1.5
MYCOGEN 2868	154.0	19.7	95.0	1.2
AGRATECH 787	153.9	19.3	96.1	2.2
CAVERNDAL FM. CF840	152.4	18.9	94.9	1.8
ZIMMERMAN Z41	152.3	18.0	95.4	1.3
NK BRAND N4575	151.7	18.9	93.3	1.4
SO. STATES SS827	151.4	19.8	95.1	1.4
GLICK SEED GH705	150.3	18.0	93.7	1.1
TERRA SEED TR1167	150.2	19.6	94.8	1.2
GOLDEN HARVEST H-2622	149.0	19.6	94.5	1.3
COLBERT 324	148.6	19.9	95.5	1.7
GOLDEN HARVEST H-2641	146.9	19.5	92.9	1.0
FR27 X M017	146.4	18.7	92.7	1.5
GOLDEN HARVEST H-2611	143.2	17.6	95.8	2.3
MEDIUM YELLOW AVERAGE	153.3	19.2	94.8	1.6
<b>LATE YELLOW HYBRIDS</b>				
SO. STATES SS943	163.6*	20.8	95.2	1.9
CROW'S 702	161.6*	21.0	95.1	1.6
GARST 8220	160.7*	21.0	95.5	1.6
DEKALB DK743	159.3*	21.2	95.8	2.6
B73 X PA91	138.0	20.5	93.1	3.1
LATE YELLOW AVERAGE	156.6	20.9	94.7	2.1
ALL YELLOW AVERAGE	148.4	18.7	92.0	1.6
<b>WHITE HYBRIDS</b>				
PIONEER BRAND 3203W	160.5*	20.4	95.7	1.9
ZIMMERMAN Z64W	151.3	20.6	94.8	2.0
ZIMMERMAN Z62W	150.9	19.3	95.8	1.7
SO. STATES SS757W	142.5	19.8	95.1	2.2
CAVERNDAL FM. CF920W	141.8	20.1	91.4	2.0
ASGROW RX795W	140.0	19.8	94.9	2.3
VINEYARD V-453W	135.5	19.9	96.4	1.1
VINEYARD V-448W	129.0	20.3	96.3	1.5
WHITE AVERAGE	143.9	20.2	95.5	1.8
GRAND AVERAGE	151.2	19.5	94.9	1.7
LSD (0.10)	6.8	0.5	1.6	0.9

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 8. Hybrid Corn Performance Test 1997, Murray, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
DEKALB DK626	185.5*	198.1*	156.4*	13.1	95.5	1.5
PIONEER BRAND 33A14BT			152.7*	12.1	100.0	3.8
PIONEER BRAND 33Y18			148.9*	13.7	100.0	0.0
PIONEER BRAND 3335		211.9*	148.8*	13.4	100.0	0.0
NK BRAND N70-D5		176.5	144.1*	13.2	100.0	0.8
BO-JAC 415		172.1	143.5*	12.0	100.0	0.8
BECKS 5415			140.7*	11.6	97.7	0.0
PIONEER BRAND 3394	171.2*	174.2	138.6*	12.4	100.0	5.3
SO. STATES SS676	161.8	179.6	137.5*	12.8	100.0	0.8
CROW'S 496		174.9	137.5*	13.0	99.2	0.8
ASGROW RX760			136.8*	12.8	100.0	0.0
AKIN A6460			134.4*	12.2	100.0	1.5
GREAT LAKES 5849			128.3	12.8	100.0	0.0
COLBERT FARMS 220		166.7	126.2	12.5	94.7	0.0
BO-JAC 544			121.2	12.7	100.0	0.0
BECKS 6205		184.8	120.4	11.6	100.0	0.8
AKIN A6590			101.9	11.8	100.0	0.0
FR1064XFR450	132.6	131.0	88.5	13.8	81.1	1.2
EARLY YELLOW AVERAGE	162.8	177.0	133.7	12.6	98.2	1.0
<b>MEDIUM YELLOW HYBRIDS</b>						
TERRA SEED TR1154	181.2*	189.5*	168.3*	14.3	100.0	0.0
DEKALB DK679			161.4*	14.6	100.0	0.8
DEKALB DK687		187.4	155.8*	14.8	93.9	0.0
PIONEER BRAND 3260		190.4*	155.4*	14.3	100.0	0.8
PIONEER BRAND 32K61			153.8*	13.8	100.0	0.8
PIONEER BRAND 33Y09BT			153.2*	13.4	100.0	0.0
COLBERT FARMS 330			152.2*	16.1	100.0	0.0
CARGILL 7770		184.6	152.0*	14.8	100.0	1.5
CROW'S 685	172.0*	175.4	151.2*	15.6	100.0	0.0
GLICK SEED GH727		175.9	150.5*	15.4	100.0	0.0
CARGILL 6888			149.9*	12.9	100.0	0.8
CAVERNDAL FM. CF9652			148.5*	13.9	100.0	2.3
MYCOGEN 2868	165.9	168.8	146.8*	15.3	100.0	0.8
GOLDEN HARVEST H-2622	166.5	183.0	146.7*	15.8	97.7	0.0
VIGORO V5970			146.3*	15.7	97.0	0.8
L.G. SEEDS LG2705	172.4*	180.1	146.3*	15.4	100.0	0.0
GREAT LAKES 6631			146.0*	14.5	100.0	0.8
NK BRAND N73-Q3			145.9*	14.2	100.0	0.0
DEKALB DK683	157.9	161.9	145.8*	15.5	100.0	0.8
CROW'S 668	165.7	172.7	143.2*	14.8	100.0	0.8
VINEYARD VX4596			143.0*	16.9	100.0	0.0
ZIMMERMAN Z37		175.8	143.0*	15.9	100.0	0.8
DEKALB DK658		192.6*	142.9*	13.7	100.0	0.8
NK BRAND 7639BT+			141.7*	14.8	99.2	0.0
CALLAHAN C7557		185.9	141.3*	13.0	100.0	0.8
SO. STATES SS747		175.6	141.0*	15.1	100.0	1.5
PIONEER BRAND 33V08BT			140.8*	15.7	100.0	0.8
DEKALB DK642		188.8*	139.1*	12.3	98.5	0.0
DEKALB DK706	179.8*	195.9*	138.9*	16.4	98.5	0.0
TERRA SEED TR1176			138.8*	16.4	97.7	0.0
GARST N5254			137.8*	18.7	100.0	0.8
BECKS 5405		178.3	135.8*	12.5	100.0	0.0
NK BRAND N4575	177.5*	187.6	135.5*	13.0	100.0	0.0
SUNSTAR 4315			134.5*	14.4	100.0	0.8
FR27 X M017	167.8	177.9	134.3*	15.4	77.3	2.1
GREAT LAKES 6317			134.3*	13.3	100.0	0.0
AGVENTURE A.V.845			132.7	12.2	93.9	0.0
PFISTER 3977			132.1	14.1	100.0	0.0
PFISTER 3049		175.4	132.1	12.6	100.0	1.5
CAVERNDAL FM. CF840	163.8	168.1	131.8	14.8	100.0	3.0
ZIMMERMAN Z39			131.5	13.6	100.0	1.5
TERRA SEED TR1167	172.7*	174.8	130.9	15.7	100.0	0.0
GOLDEN HARVEST H-2641	157.2	161.8	130.0	16.0	100.0	0.0
CAVERNDAL FM. CF9544			129.9	13.2	94.7	0.0
PIONEER BRAND 3245	173.1*	178.7	129.7	18.1	100.0	0.0
AKIN A6725		181.0	129.1	16.1	100.0	0.0
GARST 8220	177.2*	183.7	128.1	15.4	100.0	0.8
CALLAHAN C7762		175.9	128.1	13.5	96.2	0.0
BO-JAC 614		169.5	127.4	14.2	100.0	1.5
DEKALB DK618			127.3	12.6	100.0	0.0
MYCOGEN 2815			126.9	13.4	100.0	0.0
AGRATECH ATX770		177.2	125.8	15.8	100.0	0.0
GOLDEN HARVEST H-2547			124.8	13.5	100.0	0.8
SO. STATES SS828			123.9	16.0	95.5	0.0
CALLAHAN C7761		174.0	123.7	13.4	100.0	0.0
AGVENTURE A.V.977			123.4	15.3	100.0	0.0



**Table 8. Hybrid Corn Performance Test 1997, Murray, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
BO-JAC 605		167.0	123.3	19.1	98.5	0.8
GLICK SEED GH705	157.8	154.3	122.1	14.7	91.7	0.0
BO-JAC 567			122.0	14.3	100.0	0.0
SO. STATES SS7971T			122.0	15.7	100.0	0.0
GOLDEN HARVEST H-2581			121.4	17.2	100.0	0.0
ZIMMERMAN Z41	164.9	167.0	120.5	13.6	100.0	0.0
L.G. SEEDS LG2726		164.4	118.4	16.3	100.0	2.3
GOLDEN HARVEST 373		150.7	117.7	15.0	100.0	0.0
EXSEGEN ES617			117.6	15.9	99.2	0.0
ASGROW 9292			117.1	16.7	100.0	0.8
AGRATECH ATX787	170.9*	173.0	116.8	14.2	96.2	1.6
ASGROW RX813			116.4	13.8	100.0	0.8
BO-JAC 4801			115.6	14.8	100.0	0.0
NK BRAND N7931		157.7	114.2	14.2	100.0	0.0
GARST N52251T			113.9	16.9	90.9	0.0
CROW'S 550			113.6	12.9	97.0	0.8
SO. STATES SS767			113.2	13.5	100.0	0.0
TERRA SEED E1157		167.6	113.0	15.8	100.0	0.8
SUNSTAR 4316			112.1	12.1	100.0	0.0
ASGROW RX771		159.3	110.2	15.0	100.0	0.8
GOLDEN HARVEST H-2611	163.0	173.1	110.1	11.8	100.0	1.5
SO. STATES SS827	159.0	161.3	108.8	16.1	100.0	0.0
GOLDEN HARVEST H-2588			108.3	13.3	96.2	0.0
COLBERT FARMS 324	143.8	151.3	105.7	14.6	100.0	0.0
EXSEGEN ES217			105.4	14.2	78.8	0.0
VIGORO V5770			103.9	12.6	94.7	0.0
GARST 8315	165.1	157.9	102.2	16.0	81.8	1.0
AGRATECH ATX721		170.6	98.9	12.7	96.2	0.0
PIONEER BRAND 3140	163.4	161.5	93.4	20.0	76.5	0.0
MEDIUM YELLOW AVERAGE	167.0	173.5	130.4	14.8	98.1	0.5
<b>LATE YELLOW HYBRIDS</b>						
SO. STATES SS943	186.9*	203.0*	167.2*	15.7	100.0	0.0
CAVERNDALE FM. CF9753			140.1*	17.9	100.0	0.8
DEKALB DK743	154.8	169.1	129.6	18.3	98.5	1.5
MYCOGEN 2888			177.9	18.5	100.0	0.0
ZIMMERMAN Z29	155.9	151.7	125.2	16.4	100.0	0.0
BECKS 8280	163.2	167.5	122.5	15.5	100.0	0.8
TERRA SEED TR702			118.6	17.9	100.0	2.3
B73 X PA91	148.7	148.5	104.8	16.7	100.0	0.8
CROW'S 702	167.3	162.4	94.5	17.2	100.0	0.0
LATE YELLOW AVERAGE	162.8	168.6	125.7	17.1	99.8	0.7
ALL YELLOW AVERAGE	165.7	173.5	130.6	14.6	98.3	0.6
<b>WHITE HYBRIDS</b>						
WILSON SEEDS 1780W			148.8*	16.8	97.7	0.0
BECKS 5912W			138.3*	16.4	100.0	1.5
PIONEER BRAND 3203W	183.0*	195.1*	136.8*	15.4	100.0	0.8
ASGROW 921W			134.7*	17.3	100.0	0.0
L.G. SEEDS LG749W		166.6	129.0	16.1	93.9	0.0
PIONEER BRAND 32H39W			128.0	15.6	100.0	0.0
ASGROW RX795W	149.5	156.4	121.5	15.9	100.0	0.0
WILSON SEEDS 9352W			121.4	20.4	100.0	0.8
CAVERNDALE FM. CF920W	163.1	182.9	120.8	15.7	72.7	0.0
SO. STATES SS757W	159.2	164.4	120.5	15.7	100.0	0.0
ZIMMERMAN Z72W		150.0	118.2	15.3	100.0	0.8
AKIN A6680W		164.7	116.8	16.5	100.0	0.0
WILSON SEEDS 1790W			116.6	15.1	100.0	0.0
ZIMMERMAN Z62W	148.5	152.9	107.9	18.3	100.0	0.0
ZIMMERMAN Z73W		154.8	103.4	14.9	100.0	0.0
VINEYARD V-448W	131.3	140.4	100.8	16.0	100.0	0.0
ZIMMERMAN Z64W	143.6	147.3	100.5	16.0	100.0	0.8
AKIN A6535W		153.8	98.0	15.1	72.7	0.0
VINEYARD V-453W	137.6	137.6	91.6	16.8	100.0	0.0
ASGROW RX816W			90.1	15.8	100.0	0.8
WHITE AVERAGE	151.9	159.0	117.2	16.3	96.9	0.3
GRAND AVERAGE	162.9	171.1	128.6	14.9	98.0	0.5
LSD (0.10)	17.5	24.1	34.4	3.0	13.1	1.6
C.V.			12.5	9.6	4.9	232.9

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

+ NK Brand7639BT: The two year average includes late planted plots from 1996.

**Table 9. Hybrid Corn Performance Test 1997, Princeton, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997	
<b>EARLY YELLOW HYBRIDS</b>							
PIONEER BRAND 33Y18			170.5*	23.1	97.3	0.5	
SO. STATES SS676	152.8*	162.0*	168.7*	23.7	95.0	0.0	
BO-JAC 544			166.8*	22.6	95.6	0.0	
PIONEER BRAND 3335		157.8*	166.3*	21.1	99.5	0.0	
DEKALB DK626	138.4	144.8	164.2*	21.9	99.8	0.0	
CROW'S 496		157.6*	163.2	21.8	100.0	0.5	
BECKS 6205		161.0*	157.2	23.8	99.6	0.5	
BO-JAC 415		147.6	155.8	24.4	99.5	0.0	
AKIN A6590			151.2	23.1	100.0	0.5	
BECKS 5415			150.4	24.2	96.0	0.0	
PIONEER BRAND 3394	140.1	146.1	150.2	21.4	99.4	0.0	
PIONEER BRAND 33A14BT			147.6	22.0	100.0	0.5	
NK BRAND N70-D5		136.4	145.6	22.3	99.8	0.5	
ASGROW RX760			140.6	19.8	98.4	0.0	
GREAT LAKES 5849			137.1	23.0	99.8	0.0	
AKIN A6460			132.6	21.9	99.0	0.5	
FR1064 X FR450	126.3	129.3	128.5	24.5	78.5	0.0	
COLBERT FARMS 220		119.9	125.1	22.1	99.8	1.5	
EARLY YELLOW AVERAGE	139.4	145.3	151.2	22.6	97.6	0.3	
<b>MEDIUM YELLOW HYBRIDS</b>							
GOLDEN HARVEST 373		165.8*	188.7*	22.8	99.5	0.0	
SO. STATES SS828			183.6*	22.8	99.3	0.0	
ASGROW 9292			173.2*	24.2	99.6	0.0	
DEKALB DK687		174.2*	171.5*	27.7	87.5	0.0	
PFISTER 3049		148.2	171.5*	22.5	99.2	0.0	
PIONEER BRAND 33V08BT			171.2*	23.1	100.0	0.0	
PIONEER BRAND 3260		146.7	170.5*	26.8	99.2	0.0	
EXSEGEN ES617			169.6*	23.9	100.0	0.0	
PIONEER BRAND 32K61			169.4*	24.7	99.6	0.5	
CAVERNDALE FM. CF9652			168.1*	23.3	100.0	0.0	
BO-JAC 4801			168.0*	26.3	100.0	0.0	
GOLDEN HARVEST H-2588			167.8*	25.0	99.0	0.0	
AGVENTURE A.V.845			165.2*	26.2	56.8	0.0	
DEKALB DK683	155.0*	166.8*	165.0*	29.3	96.1	0.0	
GARST 8315	156.9*	158.2*	162.8	26.6	99.6	0.5	
TERRA SEED TR1154	149.8*	157.4*	162.7	23.8	89.5	0.0	
TERRA SEEDS E1157			177.2*	24.5	99.8	1.0	
AGRATECH ATX770			152.1	161.3	24.1	99.6	0.0
CROW'S 685	146.7*	147.2	161.3	26.0	94.0	0.0	
DEKALB DK679			161.0	25.0	99.4	0.5	
AGRATECH ATX721		153.7	160.3	22.9	99.1	0.0	
DEKALB DK658		151.8	160.1	23.4	94.2	0.0	
GOLDEN HARVEST H-2611	149.1*	165.1*	159.9	24.4	99.1	0.0	
GOLDEN HARVEST H-2581			159.9	24.7	100.0	0.5	
DEKALB DK642		143.0	159.4	22.6	98.8	0.0	
PFISTER 3977			157.9	27.8	100.0	1.0	
CARGILL 7770		145.6	157.7	26.4	88.1	0.0	
L.G. SEEDS LG2705	158.1*	170.3*	156.2	25.8	99.3	0.0	
DEKALB DK618			156.2	23.0	98.8	0.0	
SO. STATES SS827	142.5*	149.3	155.9	26.5	99.8	0.0	
GARST N52251T			155.8	26.8	90.8	0.0	
BO-JAC 567			154.3	25.3	99.7	0.0	
PIONEER BRAND 3245	147.2*	147.9	153.4	25.4	99.7	0.0	
BO-JAC 614		155.2*	153.3	24.5	99.6	0.0	
SUNSTAR 4315			153.1	25.7	100.0	0.0	
GREAT LAKES 6631			152.6	24.5	98.9	0.0	
CROW'S 668	145.5*	147.3	152.5	24.8	96.5	0.6	
NK BRAND N73-Q3			151.2	26.8	100.0	0.0	
CAVERNDALE FM. CF9544		145.2	151.2	21.7	99.1	0.0	
NK BRAND N7931		157.9*	150.8	29.3	99.5	0.0	
ZIMMERMAN Z39			150.8	24.9	99.5	1.0	
SUNSTAR 4316			150.4	23.5	90.8	0.0	
CROW'S 550			149.9	22.2	66.5	0.8	
L.G. SEEDS LG2726		172.2*	149.8	27.2	99.7	0.0	
ASGROW RX813			149.6	23.6	97.3	0.0	
BECKS 5405		136.3	149.4	23.9	99.2	0.5	
AGVENTURE A.V.977			149.1	24.7	99.7	0.0	
DEKALB DK706	137.2	147.2	149.0	23.9	100.0	0.0	
ZIMMERMAN Z37		134.1	148.4	27.1	99.3	0.5	
ZIMMERMAN Z41	136.9	140.0	148.1	25.6	91.9	1.0	
AKIN A6725		169.0*	147.9	25.2	96.1	0.5	
GOLDEN HARVEST H-2641	143.9*	147.0	147.9	25.4	97.2	0.0	
GLICK SEED GH705	143.6*	144.9	147.7	24.4	71.4	0.0	
PIONEER BRAND 33Y09BT			147.4	22.3	100.0	0.0	
NK BRAND 7639BT		162.3*	146.9	23.2	99.8	0.0	

**Table 9. Hybrid Corn Performance Test 1997, Princeton, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
COLBERT FARMS 330			145.6	23.6	94.8	0.0
GOLDEN HARVEST H-2547			143.6	23.1	100.0	0.5
CALLAHAN C7761		139.2	141.6	23.5	99.9	0.0
BO-JAC 605		128.7	141.4	25.6	99.3	0.5
MYCOGEN 2868	145.3*	151.2	140.6	25.7	99.4	0.0
GARST N5254			140.5	25.0	99.7	0.0
VIGORO V5770			140.0	23.8	100.0	0.0
CARGILL 6888			139.4	26.6	99.6	0.5
FR27 X M017	136.8	140.2	139.3	24.6	88.4	0.0
PIONEER BRAND 3140	139.1	151.0	137.9	27.4	99.1	0.0
CALLAHAN C7557		133.1	137.4	24.6	100.0	0.0
TERRA SEED TR1167	138.4	140.2	137.3	26.1	98.6	0.0
CALLAHAN C7762		131.1	136.5	25.4	89.4	0.0
MYCOGEN 2815			136.1	26.9	99.6	0.0
SO. STATES SS797IT			135.8	24.0	99.0	0.5
VINEYARD VX4596			135.5	26.5	100.0	0.5
BECKS 8280	135.8	131.9	135.3	26.9	99.4	0.0
TERRA SEEDS TR1176			134.9	26.2	99.2	1.0
SO. STATES SS747		127.6	133.2	26.6	96.8	0.0
ASGROW RX771		144.3	131.6	22.4	99.4	0.0
SO. STATES SS767			131.4	24.4	100.0	0.0
GOLDEN HARVEST H-2622	148.7*	156.8*	131.2	25.6	91.7	1.1
VIGORO V5970			131.0	26.1	92.1	0.0
CAVERNDALE FM. CF840	142.6*	141.3	130.5	25.1	82.2	0.0
AGRATECH ATX787	131.0	121.6	130.3	25.6	98.8	0.0
NK BRAND N4575	135.6	143.7	121.6	25.7	65.3	0.0
GREAT LAKES 6317			119.3	23.7	99.7	0.0
EXSEGEN ES217			118.3	23.9	87.2	0.8
GLICK SEED GH727		129.7	116.8	24.4	97.0	0.5
COLBERT FARMS 324	123.5	122.7	116.1	26.7	87.6	0.5
MEDIUM YELLOW AVERAGE	143.0	148.2	149.7	24.9	95.9	0.1
<b>LATE YELLOW HYBRIDS</b>						
DEKALB DK743	149.2*	152.5	162.5	25.2	100.0	0.0
GARST 8220	145.4*	146.5	157.8	24.9	99.0	0.0
ZIMMERMAN Z29	155.7*	156.1*	156.7	28.8	100.0	0.0
SO. STATES SS943	139.4	145.8	155.0	24.3	99.4	1.0
CROW'S 702	151.2*	154.1*	150.5	27.0	90.6	0.0
CAVERNDALE FM. CF9753			144.0	25.3	99.8	0.0
MYCOGEN 2888		155.9*	136.2	25.5	99.4	0.0
TERRA SEEDS TR702			132.9	28.1	99.5	0.0
B73 X PA91	128.9	134.1	132.4	28.2	66.6	0.0
LATE YELLOW AVERAGE	145.0	149.3	147.5	26.4	94.9	0.1
ALL YELLOW AVERAGE	142.9	148.0	149.8	24.7	96.0	0.2
<b>WHITE HYBRIDS</b>						
WILSON SEEDS 1780W			175.4*	24.5	100.0	0.5
PIONEER BRAND 3203W	139.8	142.2	169.4*	25.8	99.6	0.0
BECKS 5912W			168.6*	24.9	89.9	0.0
WILSON SEEDS 9352W			161.8	27.7	98.9	0.5
ASGROW 921W			159.9	26.9	95.9	0.0
ZIMMERMAN Z72W		127.3	151.0	24.1	99.6	0.0
PIONEER BRAND 32H39W			150.2	25.0	99.0	0.0
L.G. SEEDS LG749W		133.5	147.8	24.1	100.0	0.5
AKIN A6535W		136.5	147.2	25.2	93.2	0.0
VINEYARD V-448W	142.9*	161.7*	146.8	25.6	100.0	0.5
WILSON SEEDS 1790W			141.3	26.0	93.3	0.0
ZIMMERMAN Z62W	143.0*	150.9	140.4	24.2	90.0	0.5
SO. STATES SS757W	123.1	122.5	139.6	24.5	94.4	0.0
ZIMMERMAN Z73W		133.9	137.6	26.3	99.1	0.0
AKIN A6680W		132.9	137.3	26.7	99.5	0.0
ZIMMERMAN Z64W	125.3	135.0	134.8	25.3	89.0	0.0
VINEYARD V-453W	126.8	129.5	133.4	26.1	99.7	0.0
ASGROW RX816W			131.8	24.4	100.0	0.5
CAVERNDALE FM. CF 920W	121.4	121.8	125.7	25.7	75.3	0.6
ASGROW RX795W	123.6	121.5	123.7	27.4	84.6	0.0
WHITE AVERAGE	130.7	134.5	146.2	25.5	95.0	0.2
GRAND AVERAGE	140.5	145.7	149.2	24.8	96.1	0.2
LSD (0.10)	17.2	23.3	24.8	3.2	14.1	0.7
C.V.			14.7	5.8	1.9	225.9

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 10. Hybrid Corn Performance Test 1997, Olaton, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
BO-JAC 415		156.0*	138.9	14.7	100.0	0.5
PIONEER BRAND 33Y18			134.1	15.5	98.0	1.0
BECKS 6205		156.9*	130.3	15.2	99.0	0.0
SO. STATES SS676	136.8*	155.2*	129.4	14.8	100.0	0.0
PIONEER BRAND 33A14BT			129.2	14.4	100.0	0.0
PIONEER BRAND 3335		151.7	129.1	15.9	100.0	0.5
GREAT LAKES 5849			126.9	14.5	100.0	0.5
AKIN A6590			123.8	15.8	100.0	0.5
CROW'S 496		151.6	122.3	15.4	100.0	0.0
DEKALB DK626	133.2	140.1	121.9	14.7	100.0	0.0
AKIN A6460			121.3	15.1	100.0	0.0
BO-JAC 544			120.4	14.8	100.0	0.0
PIONEER BRAND 3394	132.0	142.3	117.6	15.4	100.0	0.0
NK BRAND N70-D5		134.4	114.6	15.6	100.0	0.0
COLBERT FARMS 220		135.5	113.7	15.1	100.0	0.5
FRI064 X FR450	124.7	130.9	111.9	15.9	92.4	1.1
BECKS 5415			109.1	14.9	100.0	0.5
ASGROW RX760			105.6	15.7	100.0	0.5
EARLY YELLOW AVERAGE	131.7	145.5	122.2	15.2	99.4	0.3
<b>MEDIUM YELLOW HYBRIDS</b>						
SO. STATES SS7971T			164.2*	16.2	83.3	0.5
SO. STATES SS828			159.3*	16.6	100.0	0.0
GARST N52251T			154.7*	17.4	100.0	0.0
CALLAHAN C7762		163.5*	150.0*	15.5	99.0	0.0
FR27 X M017	135.9*	155.3*	148.6*	17.3	84.3	0.0
GLICK SEED GH727		149.3	147.0*	15.6	100.0	0.0
PIONEER BRAND 3260		159.9*	145.5*	17.4	100.0	0.5
PFISTER 3977			141.9*	17.3	98.0	0.5
ZIMMERMAN Z41	140.5*	151.5	136.8	15.5	100.0	2.0
AGRATECH ATX770		159.7*	136.2	16.5	100.0	0.0
EXSEGEN ES617			134.5	17.7	100.0	0.0
CAVERNDALE FM. CF840	142.6*	155.7*	134.4	16.7	100.0	0.0
GOLDEN HARVEST H-2547			133.4	16.2	100.0	0.0
EXSEGEN ES217			133.3	16.1	95.5	0.0
SO. STATES SS747		156.3*	132.1	16.6	100.0	0.0
GOLDEN HARVEST H-2622	144.9*	156.1*	131.7	17.1	100.0	3.0
PIONEER BRAND 33Y098T			131.5	15.3	100.0	0.0
GREAT LAKES 6631			131.2	15.7	100.0	0.0
SUNSTAR 4316			131.2	16.0	100.0	0.0
BO-JAC 614		136.1	130.5	16.3	93.4	0.5
GOLDEN HARVEST H-2641	135.4	152.5	130.1	16.8	93.4	0.0
DEKALB DK687		146.6	129.8	16.4	100.0	0.5
CROW'S 550			129.7	16.0	100.0	1.0
COLBERT FARMS 330			129.6	18.0	100.0	0.0
VIGORO V5970			129.5	16.8	99.0	1.0
PIONEER BRAND 3140	149.8*	169.0*	129.4	18.1	85.9	0.8
AGVENTURE A.V.845			129.3	16.4	100.0	0.0
PIONEER BRAND 33V08BT			128.1	15.0	100.0	0.5
NK BRAND 7639BT		152.8	127.9	17.0	100.0	1.0
ASGROW RX813			127.7	16.0	97.0	0.0
PIONEER BRAND 32K61			127.2	16.4	100.0	0.0
NK BRAND N4575	144.0*	156.1*	126.7	16.4	100.0	0.0
AGRATECH ATX721		148.0	126.4	15.9	97.0	0.0
AGVENTURE A.V.977			126.1	17.4	100.0	0.0
CARGILL 7770		150.5	126.0	15.7	100.0	0.5
NK BRAND N7931		152.6	125.4	17.2	100.0	1.0
CAVERNDALE FM. CF9544		147.5	125.2	16.0	100.0	0.0
DEKALB DK642		147.2	125.1	16.3	100.0	1.5
GREAT LAKES 6317			124.8	15.7	100.0	0.0
PFISTER 3049		140.6	124.4	15.7	100.0	0.0
MYCOGEN 2868	137.6*	154.3	124.3	17.5	100.0	0.5
AKIN A6725		158.4*	124.2	17.4	100.0	0.5
VIGORO V5770			124.2	15.4	93.4	0.0
MYCOGEN 2815			123.5	16.3	100.0	0.0
TERRA SEED TR1154	138.1*	146.9	123.3	16.4	100.0	0.5
SUNSTAR 4315			123.2	17.4	100.0	0.0
DEKALB DK658		152.7	122.8	15.7	100.0	0.0
L.G. SEEDS LG2726		151.5	122.4	18.1	100.0	0.5
DEKALB DK679			122.1	17.5	100.0	0.5
CROW'S 668	135.3	145.0	122.0	17.0	100.0	0.0
GARST 8315	147.5*	157.4*	121.8	17.3	89.9	0.0
DEKALB DK683	151.1*	163.4*	121.7	17.0	89.4	0.0
NK BRAND N73-Q3			121.3	16.0	100.0	0.0
GARST N5254			121.2	17.4	92.9	0.0
TERRA SEED TR1167	130.7	141.0	121.2	17.7	100.0	1.5
PIONEER BRAND 3245	149.1*	165.6*	120.5	16.6	100.0	0.0

**Table 10. Hybrid Corn Performance Test 1997, Olaton, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
ASGROW 9292			120.3	17.7	100.0	0.0
GOLDEN HARVEST 373		137.5	119.9	16.4	100.0	3.5
SO. STATES SS767			119.8	15.8	100.0	0.0
COLBERT FARMS 324	133.4	137.7	119.2	17.1	100.0	0.0
TERRA SEED TR1176			118.8	16.6	100.0	0.0
BO-JAC 605		150.1	118.4	17.7	100.0	0.0
CALLAHAN C7557		142.9	118.2	15.2	96.0	0.0
BO-JAC 567			118.0	15.7	100.0	0.0
BO-JAC 4801			117.9	17.5	100.0	0.0
GLICK SEED GH705	135.1	148.5	117.9	16.8	100.0	1.0
L.G. SEEDS LG2705	136.8*	142.5	117.3	17.0	99.0	0.5
ZIMMERMAN Z37		141.0	116.5	17.3	100.0	1.0
BECKS 5405		147.0	115.8	14.8	100.0	0.0
TERRA SEEDS E1157		131.6	115.8	16.4	92.9	0.0
DEKALB DK706	135.4	154.4	115.3	17.7	96.5	1.1
GOLDEN HARVEST H-2588			115.0	15.7	96.5	0.5
ZIMMERMAN Z39			115.0	16.6	100.0	0.0
CALLAHAN C7761		132.4	114.6	15.8	100.0	0.0
CROW'S 685	138.8*	152.2	114.3	16.5	100.0	1.0
AGRATECH ATX787	134.9	146.9	114.3	16.8	100.0	1.0
ASGROW RX771		149.5	114.0	16.0	100.0	0.0
CAVERNDALE FM. CF9652			113.5	17.1	100.0	0.5
SO. STATES SS827	138.3*	151.5	112.2	16.7	100.0	0.0
DEKALB DK618			106.9	15.9	100.0	0.0
GOLDEN HARVEST H-2581			106.1	16.3	100.0	0.0
VINEYARD VX4596			105.1	19.7	100.0	1.5
BECKS 8280	148.7*	156.0*	103.4	17.8	100.0	1.0
CARGILL 6888			100.1	15.4	98.0	0.5
GOLDEN HARVEST H-2611	127.7	134.7	97.8	15.3	90.4	0.0
MEDIUM YELLOW AVERAGE	139.6	150.0	124.9	16.6	98.4	0.4
<b>LATE YELLOW HYBRIDS</b>						
CROW'S 702	147.0*	178.1*	140.0	18.6	100.0	0.0
SO. STATES SS943	140.1*	160.6*	138.9	18.1	100.0	1.0
GARST 8220	136.6*	166.2*	131.6	19.3	96.0	0.5
DEKALB DK743	153.0*	171.8*	128.5	19.1	100.0	1.0
MYCOGEN 2888		170.7*	125.7	18.1	100.0	0.0
CAVERNDALE FM. CF9753			123.7	18.9	97.5	0.0
TERRA SEED TR702			120.5	20.3	100.0	0.0
ZIMMERMAN Z29	135.2	152.0	112.2	17.3	94.9	3.5
B73 X PA91	130.1	144.3	111.1	18.8	100.0	0.0
LATE YELLOW AVERAGE	140.3	163.4	125.8	18.7	98.7	0.7
ALL YELLOW AVERAGE	138.8	150.7	124.6	16.5	98.6	0.4
<b>WHITE HYBRIDS</b>						
AKIN A6535W		144.8	142.2*	18.6	98.5	0.0
ASGROW 921W			141.4*	18.4	100.0	0.0
ZIMMERMAN Z62W	148.7*	169.2*	134.1	16.9	89.4	0.0
BECKS 5912W			131.5	16.5	97.0	0.0
SO. STATES SS757W	134.3	146.4	131.2	17.6	100.0	0.0
ZIMMERMAN Z72W		144.1	129.2	17.2	96.0	0.0
CAVERNDALE FM. CF 920W	130.0	143.9	124.4	17.2	88.4	0.0
AKIN A6680W		154.4	124.3	19.4	100.0	0.0
VINEYARD V-453W	128.7	145.5	122.8	17.9	100.0	0.0
L.G. SEEDS LG749W		144.3	120.3	18.3	94.9	0.0
ZIMMERMAN Z64W	144.9*	168.0*	117.5	17.7	100.0	0.0
ASGROW RX795W	122.8	135.6	115.1	17.0	100.0	0.0
WILSON SEEDS 1790W			114.7	18.0	96.5	0.0
WILSON SEEDS 9352W			114.3	20.9	93.4	0.0
ZIMMERMAN Z73W		138.6	113.6	16.8	100.0	0.0
WILSON SEEDS 1780W			110.1	19.1	100.0	0.5
ASGROW RX816W			106.2	17.9	96.0	1.0
VINEYARD V-448W	113.2	127.3	104.0	20.1	100.0	0.0
PIONEER BRAND 32H39W			100.0	17.7	100.0	0.0
PIONEER BRAND 3203W	141.5*	156.0*	98.4	20.3	100.0	0.5
WHITE AVERAGE	133.0	147.5	119.8	18.2	97.5	0.1
GRAND AVERAGE	137.7	150.2	123.8	16.8	98.4	0.3
LSD (0.10)	17.1	23.6	23.6	1.0	7.8	1.4
C.V.			14.4	7.3	0.7	275.2

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 11. Hybrid Corn Performance Test 1997, Elkton, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
DEKALB DK626	156.2*	173.7	214.6*	21.1	100.0	0.0
PIONEER BRAND 3335		182.5*	208.9*	22.3	99.9	0.0
COLBERT FARMS 220		186.1*	207.4*	20.1	100.0	0.0
PIONEER BRAND 33A14BT			204.8*	21.5	99.9	0.0
NK BRAND N70-D5		181.1*	201.4	22.1	100.0	0.0
ASGROW RX760			199.3	22.2	100.0	0.0
BO-JAC 544			194.3	20.9	99.9	0.0
PIONEER BRAND 33Y18			193.5	21.7	99.9	0.5
PIONEER BRAND 3394	134.5	158.8	192.1	20.4	100.0	0.0
GREAT LAKES 5849			189.3	21.3	99.9	0.0
BECKS 6205		176.3	188.4	22.2	100.0	0.0
SO. STATES SS676	150.8	179.6	186.9	19.1	100.0	0.0
CROW'S 496		167.8	185.4	23.1	100.0	0.0
BECKS 5415			177.1	21.9	96.6	0.0
AKIN A6460			175.7	22.1	100.0	0.0
AKIN A6590			171.7	22.5	100.0	0.0
BO-JAC 415		157.8	166.4	20.2	100.0	0.0
FR1064 X FR450	134.8	150.5	162.0	21.2	100.0	0.5
EARLY YELLOW AVERAGE	144.1	171.4	189.9	21.4	99.8	0.3
<b>MEDIUM YELLOW HYBRIDS</b>						
SO. STATES SS828			227.1*	25.0	98.4	0.0
PIONEER BRAND 3140	164.1*	196.2*	220.6*	23.7	100.0	0.0
GARST 8315	168.4*	195.1*	218.0*	23.7	99.0	0.0
NK BRAND N7931		185.2*	215.5*	24.0	99.9	0.0
PIONEER BRAND 3260		187.0*	212.0*	23.2	100.0	0.0
PIONEER BRAND 32K61			211.9*	22.5	100.0	0.0
VIGORO V5970			209.2*	26.1	100.0	0.5
PIONEER BRAND 3245	153.4	166.9	208.8*	22.2	100.0	0.0
DEKALB DK642		173.3	207.0*	22.3	100.0	0.0
GLICK SEED GH727		169.6	205.1*	22.1	100.0	0.0
GOLDEN HARVEST H-2588			204.9*	22.5	100.0	0.5
SUNSTAR 4315			202.9*	23.4	99.9	0.0
MYCOGEN 2815			202.2	22.9	100.0	0.0
NK BRAND N4575	163.9*	185.5*	201.5	22.8	100.0	0.5
SO. STATES SS827	159.4*	179.3	200.8	26.9	100.0	0.0
MYCOGEN 2868	153.9*	180.5*	199.2	23.1	100.0	0.5
EXSEGEN ES617			199.0	24.0	99.9	0.0
ASGROW 9292			199.0	24.3	100.0	0.0
ZINMERMAN Z39			198.8	23.3	100.0	0.0
BO-JAC 567			198.7	21.5	100.0	0.0
TERRA SEED E1157		171.5	198.3	23.6	100.0	0.0
PFISTER 3977			198.2	25.6	100.0	0.0
AGRATECH ATX770		169.7	197.7	23.7	100.0	0.0
ASGROW RX813			197.6	24.1	100.0	0.5
DEKALB DK658		169.8	196.7	24.3	100.0	0.0
AKIN A6725		165.0	195.6	24.6	99.9	0.0
TERRA SEED TR1154	163.2*	182.1*	194.3	23.1	100.0	0.0
BECKS 8280	166.2*	189.3*	193.8	23.1	99.9	0.0
COLBERT FARMS 324	145.8	167.1	193.4	24.6	97.5	0.0
PFISTER 3049		176.3	193.3	23.4	100.0	0.0
CARGILL 6888			193.2	21.2	100.0	0.0
AGRATECH ATX787	160.4*	176.2	192.9	25.4	100.0	0.0
VIGORO V5770			192.8	22.0	100.0	0.0
L.G. SEEDS LG2726		182.0*	192.3	25.0	98.9	0.0
AGRATECH ATX721		150.5	192.3	22.4	100.0	0.0
EXSEGEN ES217			192.2	21.7	100.0	0.0
BECKS 5405		197.9*	192.1	22.0	100.0	0.5
CALLAHAN C7762		176.9	192.1	21.8	99.9	0.0
CAVERNDALE FM. CF9544		171.5	190.9	22.6	100.0	0.0
FR27 X M017	143.1	161.4	190.9	24.0	99.9	0.0
BO-JAC 4801			189.9	25.3	100.0	0.0
NK BRAND 7639BT+		146.6	189.3	22.8	100.0	0.0
CROW'S 668	162.6*	174.7	189.1	22.8	100.0	0.0
GOLDEN HARVEST H-2611	148.7	164.6	188.1	21.0	100.0	0.0
NK BRAND N73-Q3			188.0	22.1	99.9	0.0
BO-JAC 605		179.0	187.9	25.4	100.0	0.0
BO-JAC 614		160.9	187.9	23.5	100.0	0.0
GOLDEN HARVEST H-2547			187.8	22.9	100.0	0.5
GARST N5254			187.6	26.5	100.0	0.0
CALLAHAN C7761		169.6	187.5	21.5	100.0	0.0
SO. STATES SS797IT			186.6	23.7	99.9	0.0
GARST N52251T			185.9	26.3	96.6	0.0
DEKALB DK687		165.4	185.4	24.0	99.9	1.0
CARGILL 7770		177.1	184.7	23.0	100.0	0.0
CALLAHAN C7557		165.2	183.8	22.1	100.0	0.0

**Table 11. Hybrid Corn Performance Test 1997, Elkton, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
SUNSTAR 4316			183.8	22.5	100.0	0.0
DEKALB DK683	152.9	171.9	183.7	23.3	100.0	0.0
DEKALB DK618			182.2	23.1	99.9	0.0
GLICK SEED GH705	145.6	160.0	181.9	22.6	100.0	0.5
ZIMMERMAN Z41	146.4	163.1	181.4	23.0	100.0	0.0
ZIMMERMAN Z37		165.2	178.6	26.8	99.9	0.0
TERRA SEED TR1176			178.6	24.8	97.1	0.0
AGVENTURE A.V.977			177.7	25.2	100.0	0.0
COLBERT FARMS 330			176.8	25.6	100.0	0.0
DEKALB DK679			176.4	25.2	100.0	0.0
PIONEER BRAND 33Y09BT			176.0	22.4	100.0	0.0
L.G. SEEDS LG2705	149.1	166.9	174.0	24.0	100.0	0.0
DEKALB DK706	141.0	158.6	173.9	24.8	99.9	0.0
ASGROW RX771		167.4	173.8	23.9	98.9	0.5
SO. STATES SS747		161.3	172.1	24.4	99.9	0.0
CAVERNDALE FM. CF9652			171.9	23.7	100.0	0.0
AGVENTURE A.V.845			171.8	22.9	100.0	0.0
GOLDEN HARVEST H-2641	148.8	168.2	171.5	22.7	100.0	0.0
GOLDEN HARVEST 373		159.8	170.5	23.6	99.9	0.0
GREAT LAKES 6631			169.2	24.9	100.0	0.5
GOLDEN HARVEST H-2581			168.9	22.4	100.0	0.5
PIONEER BRAND 33V08BT			168.0	21.7	99.9	0.0
TERRA SEED TR1167	135.0	154.2	166.7	23.0	100.0	0.0
CROW'S 550			164.5	22.9	100.0	0.0
CROW'S 685	139.3	156.7	163.3	23.9	100.0	0.0
SO. STATES SS767			161.5	22.5	99.9	0.0
GREAT LAKES 6317			160.5	23.6	100.0	0.0
GOLDEN HARVEST H-2622	132.6	145.3	157.1	23.9	99.2	0.5
CAVERNDALE FM. CF840	134.2	151.8	156.7	24.1	100.0	0.0
VINEYARD VX4596			156.5	24.9	100.0	0.0
MEDIUM YELLOW AVERAGE	151.2	198.0	188.0	23.6	99.8	0.0
<b>LATE YELLOW HYBRIDS</b>						
CROW'S 702	164.6*	182.6*	223.4*	25.7	98.6	0.5
GARST 8220	164.7*	198.9*	222.5*	28.2	100.0	0.0
SO. STATES SS943	148.7	176.3	214.4*	28.6	100.0	0.0
MYCOGEN 2888		177.6	200.5	25.3	100.0	0.0
CAVERNDALE FM. CF9753			187.6	26.8	100.0	0.0
TERRA SEED TR702			178.5	27.1	99.9	0.0
DEKALB DK743	144.7	162.9	178.0	27.0	100.0	0.0
ZIMMERMAN Z29	139.6	157.2	176.3	24.5	98.4	0.0
B73 X PA91	111.0	120.4	152.9	29.4	100.0	0.0
LATE YELLOW AVERAGE	145.6	168.0	192.7	26.9	99.7	0.1
ALL YELLOW AVERAGE	128.1	170.2	188.7	23.5	99.8	0.1
<b>WHITE HYBRIDS</b>						
BECKS 5912W			203.8*	24.2	100.0	0.0
AKIN A6535W		171.6	202.2	24.0	100.0	0.0
ZIMMERMAN Z72W		160.3	196.5	25.2	100.0	0.0
ZIMMERMAN Z64W	164.0*	182.0*	195.6	25.4	99.9	0.0
ZIMMERMAN Z62W	157.5*	176.6	193.5	24.2	99.9	0.0
WILSON SEEDS 1790W			187.5	23.9	100.0	0.0
PIONEER BRAND 3203W	156.0*	181.1*	184.5	25.7	97.1	0.0
AKIN A6680W		162.9	182.9	26.4	99.9	0.0
CAVERNDALE FM. CF920W	137.5	150.2	181.7	26.4	99.0	1.0
ASGROW RX816W			181.2	24.8	100.0	0.0
ZIMMERMAN Z73W		155.9	179.4	22.7	99.9	0.0
L.G. SEEDS LG749W		154.9	179.3	26.5	100.0	0.0
VINEYARD V-453W	131.6	155.2	177.0	24.2	99.9	0.0
ASGROW 921W			175.7	26.0	100.0	0.0
WILSON SEEDS 1780W			173.1	25.4	98.1	0.0
ASGROW RX795W	141.6	152.1	168.8	25.3	99.9	0.0
SO. STATES SS757W	142.5	156.7	168.3	26.1	100.0	0.0
PIONEER BRAND 32H39W			167.4	22.2	100.0	0.0
VINEYARD V-448W	118.6	132.8	164.3	24.8	100.0	0.0
WILSON SEEDS 9352W			153.1	26.5	100.0	0.0
WHITE AVERAGE	143.7	160.9	180.8	25.0	99.7	0.1
GRAND AVERAGE	148.2	168.7	187.5	23.7	99.8	0.1
LSD (0.10)	14.8	19.2	24.4	1.5	1.4	0.4
C.V.			9.7	4.8	1.1	477.9

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

+ NK Brand7639BT: The two year average includes late planted plots from 1996.

**Table 12. Hybrid Corn Performance Test 1997, Bardstown, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
PIONEER BRAND 33A14BT			131.8*	18.7	100.0	0.0
PIONEER BRAND 3335		133.4	125.2*	17.9	100.0	0.0
PIONEER BRAND 33Y18			122.7*	19.0	100.0	0.0
PIONEER BRAND 3394	142.5*	141.6*	113.8*	16.2	100.0	0.0
BECKS 6205		170.3*	107.5	17.6	100.0	0.0
FR1064 X FR450	154.2*	132.4	106.1	17.2	100.0	0.8
AKIN A6590			105.4	18.2	100.0	0.0
GREAT LAKES 5849			99.8	15.8	100.0	0.0
COLBERT FARMS 220		131.8	98.7	16.8	100.0	0.0
CROW'S 496		152.4*	97.9	18.0	100.0	0.8
ASGROW RX760			94.7	17.0	100.0	0.0
SO. STATES SS676	138.9*	136.4	94.4	17.4	100.0	0.8
BECKS 5415			94.3	18.3	100.0	0.0
DEKALB DK626	139.9*	119.2	92.2	17.9	100.0	0.8
NK BRAND N70-D5		140.7	87.2	17.0	100.0	0.0
BO-JAC 415		130.1	82.3	17.4	100.0	0.0
AKIN A6460			79.2	17.9	100.0	0.8
BO-JAC 544			76.2	18.8	100.0	0.0
EARLY YELLOW AVERAGE	143.9	138.8	100.5	17.6	100.0	0.2
<b>MEDIUM YELLOW HYBRIDS</b>						
EXSEGEN ES617			133.2*	21.7	100.0	0.8
PIONEER BRAND 33Y09BT			121.6*	19.1	100.0	0.0
BECKS 8280	160.2*	161.4*	119.8*	23.4	100.0	0.0
BO-JAC 4801			116.8*	25.6	100.0	1.5
SO. STATES SS828			116.7*	21.1	100.0	0.0
TERRA SEED TR1176			115.6*	22.7	100.0	0.8
ZIMMERMAN Z37		159.0*	115.3*	25.5	100.0	0.8
CAVERNDAL FM. CF 9652			114.7*	22.2	100.0	1.5
GARST N5254			113.9*	21.6	100.0	0.0
PIONEER BRAND 3245	146.7*	133.7	113.1*	18.7	100.0	0.0
PIONEER BRAND 33V08BT			113.0*	17.3	100.0	0.0
VIGORO V5970			110.7	24.5	100.0	0.0
MYCOGEN 2815			110.5	18.8	100.0	0.0
NK BRAND 7639BT		158.5*	109.9	20.3	100.0	0.0
BO-JAC 605		136.3	109.3	23.8	100.0	0.0
PIONEER BRAND 3140	148.2*	143.0*	108.5	23.6	100.0	0.0
DEKALB DK679			108.1	24.0	100.0	0.0
EXSEGEN ES217			107.1	20.5	100.0	0.0
L.G. SEEDS LG2726		133.3	107.1	24.4	100.0	0.0
PFISTER 3977			105.2	20.3	100.0	0.8
CAVERNDAL FM. CF 840	156.7*	162.8*	103.1	23.1	100.0	0.0
PIONEER BRAND 3260		151.6*	102.7	22.6	100.0	0.8
GOLDEN HARVEST H-2547			102.5	18.2	100.0	1.5
AGRATECH ATX721		126.0	102.5	18.3	100.0	0.8
NK BRAND N73-Q3			102.0	19.7	100.0	0.0
DEKALB DK642		140.9	101.6	17.2	100.0	0.0
VINEYARD VX4596			101.3	22.0	100.0	0.0
DEKALB DK706	162.2*	156.5*	101.1	22.8	100.0	0.0
ASGROW RX771			100.2	17.8	100.0	0.8
SO. STATES SS747		137.5	99.7	21.5	100.0	0.0
CARGILL 7770		150.0*	99.6	19.2	100.0	0.0
GOLDEN HARVEST 373		121.3	99.6	27.4	100.0	0.0
COLBERT FARMS 330			99.1	25.3	100.0	0.8
CAVERNDAL FM. CF 9544		119.0	98.3	18.7	100.0	0.0
AGVENTURE A.V.845			98.2	19.8	100.0	0.0
NK BRAND N7931		146.4*	97.7	20.5	100.0	1.5
ASGROW 9292			96.5	21.6	100.0	0.0
GOLDEN HARVEST H-2588			96.2	18.2	100.0	0.0
DEKALB DK683	148.1*	137.9	95.2	22.7	100.0	0.8
CALLAHAN C7557		122.1	95.1	20.0	100.0	0.8
L.G. SEEDS LG2705	148.0*	145.7*	94.7	26.6	100.0	0.0
BO-JAC 567			93.1	17.7	100.0	0.0
ZIMMERMAN Z41	156.3*	153.0*	92.7	20.3	100.0	0.0
GARST 8315	160.8*	159.1*	92.2	21.8	100.0	0.0
PIONEER BRAND 32K61			91.2	20.8	100.0	0.0
CROW'S 550			90.6	17.2	100.0	0.0
GLICK SEED GH705	136.9	116.4	90.6	18.4	100.0	0.0
GOLDEN HARVEST H-2611	125.9	128.3	89.1	20.1	100.0	0.8
SO. STATES SS767			88.7	18.6	100.0	0.0
TERRA SEED E1157		122.4	88.7	22.8	100.0	0.0
GLICK SEED GH727		132.7	88.3	17.9	95.5	0.0
CARGILL 6888			88.1	18.4	100.0	0.0
DEKALB DK658		137.0	88.0	21.1	100.0	0.0
GREAT LAKES 6631			87.7	25.0	100.0	0.0
DEKALB DK618			86.8	17.5	100.0	0.0



**Table 12. Hybrid Corn Performance Test 1997, Bardstown, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
DEKALB DK687		145.0*	86.4	23.5	100.0	0.0
AGRATECH ATX787	142.1*	132.9	86.4	25.4	100.0	0.8
ZIMMERMAN Z39			86.2	20.2	100.0	0.8
AKIN A6725		137.9	85.6	25.2	100.0	0.0
FR27 X M017	139.7*	129.2	85.5	19.5	100.0	0.0
AGVENTURE A.V.977			85.5	24.8	100.0	0.8
SUNSTAR 4316			84.8	17.9	100.0	0.8
SUNSTAR 4315			84.0	20.3	100.0	0.0
TERRA SEED TR1167	147.9*	157.3*	82.2	23.9	100.0	0.8
GARST N52251T			82.0	25.4	100.0	0.0
ASGROW RX813			81.6	20.2	100.0	0.0
SO. STATES SS827	130.3	132.7	81.2	25.5	100.0	0.8
CROW'S 685	152.5*	148.6*	80.6	24.3	100.0	0.0
VIGORO V5770			80.3	19.0	96.2	0.0
SO. STATES SS797IT			79.5	19.6	100.0	0.0
GREAT LAKES 6317			78.3	18.5	100.0	0.0
CALLAHAN C7761		117.5	78.3	17.7	100.0	1.5
PFISTER 3049		126.4	78.2	19.3	100.0	0.0
CROW'S 668	140.8*	134.9	78.0	25.4	100.0	0.0
GOLDEN HARVEST H-2622	139.0*	139.9	77.4	24.5	100.0	0.8
TERRA SEED TR1154	135.8	126.6	76.0	25.3	100.0	1.5
BO-JAC 614		122.5	73.8	21.8	100.0	0.8
CALLAHAN C7762		112.7	73.1	20.2	100.0	0.0
COLBERT FARMS 324	147.0*	142.4*	72.9	25.9	100.0	0.8
GOLDEN HARVEST H-2581			72.0	20.6	100.0	0.0
GOLDEN HARVEST H-2641	115.2	113.6	71.5	25.9	100.0	0.0
BECKS 5405		128.0	69.9	18.6	100.0	0.8
AGRATECH ATX770		90.0	66.2	22.5	100.0	0.8
MYCOGEN 2868	145.2*	141.9*	58.9	26.8	100.0	0.0
NK BRAND N4575	130.9	130.9	54.3	23.0	100.0	0.8
MEDIUM YELLOW AVERAGE	144.2	136.9	93.5	21.5	99.9	0.3
<b>LATE YELLOW HYBRIDS</b>						
GARST 8220	155.0*	128.9	104.4	26.3	100.0	0.8
TERRA SEED TR702			100.4	27.9	100.0	0.0
CROW'S 702	138.8*	119.9	100.2	27.9	100.0	0.0
MYCOGEN 2888		164.2*	85.8	26.3	100.0	0.0
SO. STATES SS943	152.3*	132.9	81.7	28.7	100.0	1.5
ZIMMERMAN Z29	144.1*	135.9	77.8	25.4	100.0	0.0
DEKALB DK743	158.2*	138.4	77.6	24.8	100.0	0.0
CAVERNDAL FM. CF 9753			75.6	28.3	100.0	0.0
B73 X PA91	139.3*	142.2*	75.1	27.1	100.0	0.0
LATE YELLOW AVERAGE	148.0	137.5	86.5	27.0	100.0	0.3
ALL YELLOW AVERAGE	149.0	137.2	94.0	21.3	99.9	0.3
<b>WHITE HYBRIDS</b>						
CAVERNDAL FM. CF 920W	138.4*	155.2*	109.9	23.7	100.0	0.0
WILSON SEEDS 1790W			106.0	21.0	100.0	0.0
AKIN A6535W		131.6	102.5	22.6	100.0	0.0
ZIMMERMAN Z62W	137.7	134.5	101.1	24.0	100.0	0.0
ASGROW 921W			100.6	27.8	100.0	0.0
ASGROW RX795W	151.8*	145.4*	98.1	26.4	100.0	1.5
BECKS 5912W			97.4	22.9	100.0	0.0
WILSON SEEDS 1780W			96.8	23.7	100.0	0.8
ZIMMERMAN Z73W		137.8	95.1	22.5	100.0	0.0
VINEYARD V-448W	131.0	127.0	91.0	22.6	100.0	0.8
L.G. SEEDS LG749W		136.1	90.9	23.8	100.0	0.0
ASGROW RX816W			90.9	26.0	100.0	0.0
ZIMMERMAN Z64W	142.6*	131.0	89.4	28.4	100.0	0.8
PIONEER BRAND 3203W	148.2*	147.4*	86.8	26.3	100.0	0.0
SO. STATES SS757W	134.9	130.4	85.0	27.3	100.0	4.5
PIONEER BRAND 32H39W			83.5	22.8	100.0	0.8
AKIN A6680W		148.4*	82.8	27.0	100.0	0.0
VINEYARD V-453W	120.8	98.0	72.5	24.8	100.0	0.0
ZIMMERMAN Z72W		132.9	66.1	27.1	100.0	0.8
WILSON SEEDS 9352W			53.0	29.0	100.0	0.0
WHITE AVERAGE	164.2	188.6	176.6	24.0	99.9	1.2
GRAND AVERAGE	143.5	136.9	93.4	21.9	99.9	0.3
LSD (0.10)	24.3	29.3	22.4	7.3	1.2	0.7
C.V.			14.5	7.3	0.7	275.3

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 13. Hybrid Corn Performance Test 1997, Lexington, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
AKIN A6590			184.0*	20.3	100.0	4.5
AKIN A6460			179.9*	19.6	100.0	9.6
BECKS 6205		183.1	179.1*	20.3	100.0	5.1
PIONEER BRAND 33Y18			176.3*	19.6	100.0	4.5
PIONEER BRAND 33A14BT			167.5*	20.8	100.0	4.0
BO-JAC 415		166.4	166.2	19.0	100.0	6.6
PIONEER BRAND 3335		154.6	164.1	20.6	99.0	7.6
BO-JAC 544			164.1	20.2	100.0	5.1
BECKS 5415			162.5	18.7	100.0	5.6
GREAT LAKES 5849			155.9	19.3	100.0	7.1
PIONEER BRAND 3394	145.8	152.7	155.7	20.5	100.0	5.1
ASGROW RX760			155.6	19.9	100.0	2.5
NK BRAND N70-D5		173.6	148.3	19.8	100.0	4.5
DEKALB DK626	152.8	168.4	147.9	19.2	100.0	8.6
COLBERT FARMS 220		166.1	144.8	17.8	100.0	6.1
CROW'S 496		169.8	134.4	19.0	100.0	6.1
SO. STATES SS676	132.6	150.8	125.3	19.9	100.0	3.5
FR1064 X FR450	127.3	136.1	123.0	19.2	100.0	6.6
EARLY YELLOW AVERAGE	139.6	162.2	157.5	19.7	99.9	5.7
<b>MEDIUM YELLOW HYBRIDS</b>						
NK BRAND 7639BT		208.0*	193.0*	21.5	100.0	8.6
GARST N52251T			189.1*	23.9	100.0	4.5
PIONEER BRAND 3140	177.0*	180.8	184.0*	21.9	100.0	8.6
BO-JAC 605		191.0*	181.4*	23.7	100.0	4.0
VIGORO V5970			180.7*	22.6	100.0	6.1
SO. STATES SS828			180.7*	23.0	100.0	8.1
EXSEGEN ES617			179.7*	23.5	100.0	4.0
GARST N5254			178.7*	22.6	100.0	9.6
DEKALB DK687		181.0	177.5*	22.2	100.0	2.5
ZIMMERMAN Z37		181.6	175.3*	23.5	100.0	5.6
BECKS 5405		178.3	173.0*	19.8	100.0	6.1
AKIN A6725		178.2	172.0*	24.2	100.0	9.6
COLBERT FARMS 324	172.6*	183.0	171.8*	23.2	100.0	8.1
DEKALB DK679			170.5*	22.9	100.0	2.5
L.G. SEEDS LG2726		182.9	170.1*	21.4	100.0	8.1
PIONEER BRAND 3260		175.2	170.1*	23.6	100.0	6.6
NK BRAND N7931		169.6	169.9*	21.7	100.0	6.1
FR27 X M017	152.2	162.8	169.5*	23.0	100.0	3.5
TERRA SEED TR1154	163.9*	176.4	168.9*	22.1	100.0	7.6
SO. STATES SS827	152.6	162.9	168.7*	22.6	100.0	5.6
MYCOGEN 2815			168.6*	19.8	100.0	2.5
DEKALB DK683	160.5*	169.6	168.0*	22.9	100.0	8.1
GREAT LAKES 6631			167.2*	21.1	100.0	2.0
BO-JAC 4801			166.6	22.0	100.0	7.1
CALLAHAN C7557		186.4	166.4	20.0	100.0	6.6
DEKALB DK658		170.4	165.4	20.9	100.0	4.0
CAVERNDAL FM. CF9652			165.2	22.3	100.0	7.1
VINEYARD VX4596			164.2	25.2	100.0	5.6
MYCOGEN 2868	173.1*	176.4	164.0	23.8	100.0	8.6
CARGILL 7770		179.0	163.5	21.1	100.0	3.5
ASGROW 9292			163.4	25.5	100.0	2.5
PIONEER BRAND 33Y09BT			163.3	20.3	100.0	6.1
TERRA SEED TR1167	170.0*	184.0	163.2	26.2	100.0	5.6
BO-JAC 614		175.7	163.1	22.6	100.0	3.0
PIONEER BRAND 32K61			163.1	21.6	100.0	7.6
CAVERNDAL FM. CF9544		184.2	162.5	19.8	100.0	6.1
TERRA SEED E1157		182.8	161.8	23.3	100.0	4.0
GOLDEN HARVEST H-2547			161.0	19.6	100.0	8.6
TERRA SEED TR1176			160.5	21.4	100.0	4.5
ASGROW RX771		170.3	160.1	21.3	100.0	5.1
L.G. SEEDS LG2705	162.4*	170.8	159.8	24.4	100.0	3.5
AGRATECH ATX770		171.1	159.1	23.4	100.0	7.6
CALLAHAN C7761		166.4	159.1	20.2	100.0	7.1
GOLDEN HARVEST H-2611	153.3	169.9	158.5	20.5	100.0	2.5
CAVERNDAL FM. CF840	157.9	165.2	158.5	22.7	100.0	8.6
NK BRAND N73-Q3			158.1	21.1	100.0	6.1
EXSEGEN ES217			157.7	19.5	100.0	5.6
GOLDEN HARVEST H-2622	159.4	167.4	157.6	24.5	100.0	8.1
GOLDEN HARVEST H-2588			156.9	21.2	100.0	7.1
PFISTER 3049		157.0	156.6	20.7	100.0	5.6
AGVENTURE A.V.977			156.1	23.4	100.0	7.6
PFISTER 3977			156.0	22.0	100.0	8.6
AGRATECH ATX721		170.8	155.4	20.8	100.0	6.6
COLBERT FARMS 330			155.4	22.6	100.0	7.6
CARGILL 6888			154.4	20.0	100.0	6.1
SUNSTAR 4315			154.3	22.7	100.0	2.5

**Table 13. Hybrid Corn Performance Test 1997, Lexington, KY (continued)**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
SUNSTAR 4316			154.1	20.8	100.0	6.1
GOLDEN HARVEST H-2641	172.7*	176.4	153.8	22.1	100.0	5.1
GOLDEN HARVEST H-2581			153.7	21.0	100.0	8.1
VIGORO V5770			153.1	20.5	100.0	4.0
SO. STATES SS747		164.0	152.9	21.0	100.0	9.6
AGRATECH ATX787	162.5*	162.5	152.5	24.0	100.0	5.1
ASGROW RX813			151.4	20.7	100.0	4.0
GREAT LAKES 6317			151.1	20.8	100.0	4.0
ZIMMERMAN Z41	154.4	169.1	151.1	20.6	100.0	3.5
BECKS 8280	157.9	156.1	150.9	22.9	100.0	2.0
GOLDEN HARVEST 373		162.7	150.4	23.9	100.0	6.6
GLICK SEED GH727		171.2	150.3	19.1	100.0	7.6
GLICK SEED GH705	153.8	171.2	148.8	20.8	100.0	6.6
CROW'S 668	162.8*	171.2	147.8	24.2	100.0	7.6
BO-JAC 567			146.7	19.8	100.0	7.6
SO. STATES SS767			146.1	21.0	100.0	5.1
ZIMMERMAN Z39			145.8	22.1	100.0	7.6
CALLAHAN C7762		158.6	145.8	19.1	100.0	5.1
NK BRAND N4575	152.9	163.8	144.6	23.0	100.0	4.0
PIONEER BRAND 33V08BT			143.7	20.6	100.0	7.1
DEKALB DK706	156.9	161.0	143.0	23.4	100.0	5.6
DEKALB DK642		162.9	140.0	22.5	100.0	7.1
DEKALB DK618			138.5	20.8	100.0	8.1
AGVENTURE A.V.845			138.3	19.8	100.0	2.5
CROW'S 685	165.4*	165.5	137.7	22.0	100.0	8.1
PIONEER BRAND 3245	154.1	163.3	136.1	20.4	100.0	3.5
GARST 8315	154.3	161.3	133.9	22.9	100.0	7.1
CROW'S 550			133.6	20.4	100.0	8.1
SO. STATES SS797IT			125.8	22.8	100.0	2.0
MEDIUM YELLOW AVERAGE	161.0	172.3	159.3	22.0	100.0	5.9
<b>LATE YELLOW HYBRIDS</b>						
ZIMMERMAN Z29	165.9*	178.2	180.3*	24.5	100.0	4.5
DEKALB DK743	159.8	183.2	171.6*	23.5	100.0	2.0
MYCOGEN 2888		185.6	162.9	23.7	100.0	3.5
CROW'S 702	165.2*	163.3	152.8	24.2	100.0	8.1
GARST 8220	152.5	152.1	149.6	20.9	100.0	6.1
CAVERNDAL FM. CF9753			147.7	25.5	100.0	3.5
B73 X PA91	140.4	149.2	141.3	24.6	100.0	3.5
SO. STATES SS943	158.5	153.2	141.1	21.1	100.0	3.5
TERRA SEED TR702			141.0	24.6	100.0	5.6
LATE YELLOW AVERAGE	157.0	166.4	154.2	23.6	100.0	4.5
ALL YELLOW AVERAGE	157.7	170.1	158.6	21.7	99.9	5.8
<b>WHITE HYBRIDS</b>						
ASGROW RX816W			164.2	22.6	100.0	7.6
ZIMMERMAN Z62W	149.4	156.1	156.3	20.8	100.0	5.6
BECKS 5912W			155.2	21.6	100.0	5.1
ASGROW 921W			153.5	26.0	100.0	6.6
ZIMMERMAN Z64W	151.8	157.5	152.5	25.4	100.0	4.0
PIONEER BRAND 32H39W			152.2	23.3	100.0	3.5
PIONEER BRAND 3203W	161.4*	166.3	151.8	24.4	100.0	6.6
SO. STATES SS757W	148.3	155.0	151.3	21.5	100.0	3.5
L.G. SEEDS LG749W		161.0	151.0	22.4	100.0	7.1
ZIMMERMAN Z73W		162.2	149.6	20.6	100.0	7.1
ASGROW RX795W	140.1	148.6	148.2	22.2	100.0	3.5
WILSON SEEDS 1780W			146.8	23.3	100.0	3.5
VINEYARD V-448W	132.8	149.1	145.8	25.3	100.0	4.0
WILSON SEEDS 1790W			144.7	22.2	100.0	3.0
AKIN A6535W		144.9	139.2	22.0	100.0	7.1
VINEYARD V-453W	148.0	148.0	136.3	24.6	100.0	6.1
WILSON SEEDS 9352W			132.7	26.3	100.0	4.0
CAVERNDAL FM. CF 920W	135.7	142.9	132.4	20.8	100.0	7.1
AKIN A6680W		142.8	131.7	23.1	100.0	5.1
ZIMMERMAN Z72W		152.3	119.6	23.7	100.0	3.0
WHITE AVERAGE	145.9	152.8	145.8	23.1	100.0	5.2
GRAND AVERAGE	155.4	167.2	156.7	21.9	99.9	5.6
LSD (0.10)	16.7	21.3	26.3	1.6	0.2	5.0
C.V.			12.5	5.6	0.2	65.8

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 14. Hybrid Corn Performance Test 1997, Quicksand, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>EARLY YELLOW HYBRIDS</b>						
PIONEER BRAND 3335		216.6*	223.3*	19.7	100.0	0.0
BECKS 6205		215.2*	214.9*	19.5	99.9	0.0
PIONEER BRAND 33A14BT			212.3*	19.6	100.0	1.0
PIONEER BRAND 3394	184.4	208.7	208.8*	18.9	100.0	0.7
PIONEER BRAND 33Y18			205.9*	18.4	100.0	0.5
AKIN A6590			205.4*	18.7	100.0	1.0
BO-JAC 415		195.1	186.7	18.7	100.0	5.2
CROW'S 496		196.1	179.8	18.2	100.0	0.2
COLBERT FARMS 220		180.5	178.0	20.0	99.9	1.4
AKIN A6460			176.5	19.4	100.0	0.0
NK BRAND N70-D5		188.2	175.2	19.1	100.0	0.3
BO-JAC 544			166.6	19.7	95.4	3.0
BECKS 5415			163.8	19.7	100.0	0.0
FR1064 X FR450	142.9	158.7	161.8	18.9	100.0	0.0
ASGROW RX760			159.3	20.1	94.9	0.3
DEKALB DK626	157.9	183.1	156.9	19.4	100.0	0.4
GREAT LAKES 5849			153.6	18.3	100.0	1.7
SO. STATES SS676	147.0	160.2	145.1	20.7	93.0	0.7
EARLY YELLOW AVERAGE	158.0	190.2	181.9	19.3	99.1	0.9
<b>MEDIUM YELLOW HYBRIDS</b>						
PIONEER BRAND 3260		238.3*	226.8*	23.7	100.0	2.5
PFISTER 3977			225.4*	22.3	100.0	0.3
PIONEER BRAND 3140	193.7	222.9*	221.1*	24.7	99.9	0.1
CAVERNDALE FM. CF 9652			220.7*	20.7	99.9	0.0
BO-JAC 614		230.5*	220.3*	22.4	100.0	0.1
L.G. SEEDS LG2726		215.3*	218.5*	24.1	100.0	1.4
ZIMMERMAN Z39			215.8*	23.5	100.0	0.7
AGVENTURE A.V.977			214.6*	23.4	100.0	2.3
GARST N52251T			212.9*	23.4	100.0	0.3
GREAT LAKES 6631			212.8*	25.4	100.0	0.0
TERRA SEED TR1176			212.6*	23.7	100.0	0.2
BO-JAC 605		206.7	203.2*	26.0	100.0	1.0
PIONEER BRAND 33V08BT			203.0*	20.3	100.0	0.2
AGVENTURE A.V.845			201.7*	19.8	100.0	0.0
DEKALB DK679			201.2*	23.6	100.0	0.0
DEKALB DK658		193.7	200.4*	19.0	100.0	0.5
CARGILL 7770		206.7	200.2*	19.5	100.0	0.0
GLICK SEED GH705	180.0	212.5	199.4*	19.5	100.0	0.7
VIGORO V5970			197.7*	23.5	100.0	1.0
CROW'S 668	171.7	193.3	197.5*	23.0	100.0	0.0
NK BRAND N7931		210.4	197.3*	19.7	100.0	1.6
ZIMMERMAN Z41	167.3	189.1	196.6*	19.7	100.0	0.4
DEKALB DK706	188.6	210.5	195.7*	24.4	100.0	0.1
SO. STATES SS828			195.0*	22.4	100.0	0.2
ASGROW 9292			193.3*	22.8	100.0	0.1
SO. STATES SS797IT			193.0	20.6	99.9	0.9
ASGROW RX813			190.7	21.8	100.0	0.2
VIGORO V6770			190.6	19.5	100.0	0.1
AKIN A6725		207.1	190.4	24.4	100.0	0.0
SO. STATES SS827	177.5	207.0	189.6	24.3	100.0	0.0
ZIMMERMAN Z37		196.4	189.1	25.3	100.0	1.2
GARST N5254			188.0	25.0	100.0	0.8
BECKS 8280	175.9	200.4	187.7	23.0	100.0	0.4
VINEYARD VX4596			187.4	25.8	100.0	1.1
TERRA SEED TR1154	165.1	202.1	186.0	22.9	100.0	0.1
CAVERNDALE FM. CF 840	168.8	196.3	185.6	21.0	100.0	0.2
AGRATECH ATX787	176.3	200.7	185.2	22.2	100.0	0.0
COLBERT FARMS 330			185.0	26.5	100.0	0.0
GOLDEN HARVEST 373		202.6	183.6	21.5	100.0	2.1
GLICK SEED GH727		200.5	183.5	19.0	100.0	0.0
CROW'S 550			182.2	20.4	99.9	0.0
TERRA SEED E1157		189.2	182.1	24.0	100.0	0.2
CAVERNDALE FM. CF 9544		185.0	181.7	20.3	99.9	0.3
CALLAHAN C7762		198.5	180.8	19.0	100.0	0.0
PIONEER BRAND 3245	186.0	213.7*	180.5	22.2	100.0	0.1
ASGROW RX771		198.4	179.6	20.4	100.0	1.4
CROW'S 685	168.0	198.7	179.1	22.2	100.0	0.2
COLBERT FARMS 324	173.5	199.3	178.2	23.5	100.0	0.1
DEKALB DK618			178.0	19.3	100.0	1.3
BO-JAC 4801			178.0	25.4	100.0	0.0
GOLDEN HARVEST H-2547			177.0	19.0	100.0	0.5
GARST 8315	173.0	205.2	176.7	23.7	100.0	1.0
CARGILL 6888			176.3	19.3	98.5	0.4
PFISTER 3049		196.1	176.2	18.2	100.0	0.1
EXSEGEN ES217			175.9	20.5	89.9	0.6
DEKALB DK683	169.9	188.4	175.7	25.1	100.0	0.0

Table 14. Hybrid Corn Performance Test 1997, Quicksand, KY (continued)

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
PIONEER BRAND 32K61			174.6	20.9	100.0	0.3
MYCOGEN 2815			174.1	20.9	100.0	0.1
AGRATECH ATX770		188.2	173.6	23.7	100.0	0.5
EXSEGEN ES617			173.2	24.3	100.0	0.8
SUNSTAR 4315			173.1	20.9	100.0	0.2
DEKALB DK687		173.6	172.7	23.8	100.0	1.4
NK BRAND 7639BT		200.3	171.7	19.2	100.0	1.6
CALLAHAN C7557		186.4	170.6	20.0	100.0	0.0
BO-JAC 567			170.1	19.0	100.0	3.3
PIONEER BRAND 33Y09BT			169.4	19.3	100.0	1.2
BECKS 5405		175.2	168.8	19.8	100.0	0.5
GOLDEN HARVEST H-2622	151.8	181.7	168.5	23.3	100.0	0.9
GOLDEN HARVEST H-2641	155.3	173.9	168.4	24.9	100.0	0.8
L.G. SEEDS LG2705	162.1	188.1	167.9	24.4	100.0	0.0
GOLDEN HARVEST H-2588			166.8	20.6	99.9	1.0
SO. STATES SS747		175.5	166.5	21.8	99.9	0.0
AGRATECH ATX721		176.9	163.0	22.2	100.0	1.0
TERRA SEED TR1167	156.8	176.0	159.4	23.8	99.9	0.0
NK BRAND N4575	157.7	174.4	159.4	22.2	100.0	0.0
MYCOGEN 2868	157.7	180.4	157.8	21.3	100.0	0.0
FR27 X M017	159.8	170.5	156.8	23.3	100.0	0.4
GOLDEN HARVEST H-2581			156.5	21.1	100.0	0.7
CALLAHAN C7761		186.7	154.4	19.8	100.0	0.6
SUNSTAR 4316			153.3	20.1	100.0	0.5
DEKALB DK642		177.7	153.3	20.1	100.0	1.8
GREAT LAKES 6317			152.8	19.9	100.0	1.9
SO. STATES SS767			152.7	20.8	100.0	2.6
NK BRAND N73-Q3			150.9	20.1	100.0	0.3
GOLDEN HARVEST H-2611	158.7	175.6	150.5	20.2	100.0	0.1
MEDIUM YELLOW AVERAGE	169.3	195.3	183.6	21.9	99.8	0.6
<b>LATE YELLOW HYBRIDS</b>						
SO. STATES SS943	218.2*	235.5*	229.5*	27.3	100.0	0.0
GARST 8220	194.2	224.3*	217.3*	28.2	100.0	0.0
ZIMMERMAN Z29	190.3	222.5*	209.7*	24.7	100.0	0.1
DEKALB DK743	195.5	221.3*	204.3*	27.1	100.0	0.0
CROW'S 702	197.8	217.3*	202.9*	28.4	100.0	0.1
MYCOGEN 2888		211.0	195.5*	25.4	100.0	0.0
CAVERNDAL FM. CF 9753			182.3	24.7	100.0	0.2
TERRA SEED TR702			172.7	25.8	100.0	0.2
B73 X PA91	166.9	183.5	170.5	25.1	94.9	3.8
LATE YELLOW AVERAGE	193.8	216.5	198.3	26.3	99.4	0.5
ALL YELLOW AVERAGE	172.4	196.8	184.5	21.9	99.7	0.6
<b>WHITE HYBRIDS</b>						
PIONEER BRAND 3203W	193.5	222.2*	217.6*	24.6	100.0	0.0
WILSON SEEDS 1790W			213.3*	23.3	100.0	1.1
ZIMMERMAN Z64W	187.0	218.3*	209.5*	25.5	100.0	2.2
WILSON SEEDS 1780W			197.6*	24.7	100.0	5.2
ZIMMERMAN Z72W		209.9	187.8	23.1	100.0	0.2
SO. STATES SS757W	155.1	185.4	183.6	24.2	100.0	1.4
AKIN A6535W		185.7	181.9	24.2	100.0	0.1
ASGROW 921W			181.2	28.3	100.0	2.7
PIONEER BRAND 32H39W			176.2	21.7	99.9	1.3
ZIMMERMAN Z62W	172.5	194.5	173.8	22.1	100.0	0.0
WILSON SEEDS 9352W			170.3	26.7	99.9	0.2
ASGROW RX816W			167.4	22.7	100.0	0.2
VINEYARD V-453W	155.4	188.4	166.4	22.3	100.0	2.1
CAVERNDAL FM. CF 920W	166.3	193.5	163.9	23.7	97.5	0.7
AKIN A6680W		178.3	161.6	24.7	100.0	0.5
ASGROW RX795W	150.7	176.3	160.3	23.5	100.0	0.1
BECKS 5912W			159.9	21.7	100.0	1.7
ZIMMERMAN Z73W		174.4	158.1	24.5	100.0	0.8
L.G. SEEDS LG749W		168.7	157.9	24.7	100.0	2.6
VINEYARD V-448W	132.8	156.7	143.4	24.9	99.9	0.9
WHITE AVERAGE	164.2	188.6	176.6	24.0	99.9	1.2
GRAND AVERAGE	170.8	195.5	183.3	22.2	99.7	0.7
LSD (0.10)	19.4	24.8	36.4	1.7	2.5	2.1
C.V.			14.7	5.8	1.9	238.2

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**Table 15. Annual Summary, Virus Test, 1997, Lexington, KY**

BRAND/HYBRID	YIELD BU/AC 95-97	YIELD BU/AC 96-97	YIELD BU/AC 1997	AVG % MOIST 1997	AVG % STAND 1997	TOT % LODGED 1997
<b>YELLOW HYBRIDS</b>						
FR27 X M017			142.3*	23.3	100.0	4.0
SO. STATES SS943	170.9*	173.2*	140.6*	23.0	99.5	7.6
CROW'S 702	128.6	132.7	138.5*	21.0	99.5	8.1
CAVERNDALE 9542		141.1	135.4*	21.7	100.0	5.6
DEKALB DK743	133.8	121.8	126.8*	28.2	100.0	7.6
DEKALB DK683	136.4	132.1	124.1*	22.6	99.5	4.1
B73 X PA91		147.1	123.8*	23.8	100.0	1.5
TERRA SEED E1186			121.0*	21.6	100.0	6.6
VIGORO V1204A			120.9*	21.6	100.0	4.0
DEKALB 687		121.7	120.7*	24.6	100.0	5.6
FR1064 X FR450		112.9	120.7*	19.0	98.5	5.6
SO. STATES SS897		129.3	120.7*	27.4	100.0	3.5
TERRA SEED TR1185	148.1*	141.3	117.7*	24.0	100.0	6.1
AGRATECH 888	135.8	128.3	116.5*	23.0	100.0	9.1
AGRATECH ATX967			116.0*	23.9	100.0	6.1
AGRATECH 9250	123.1	135.0	108.0	26.2	100.0	6.1
MYCOGEN 8460	139.2	116.6	92.2	25.5	100.0	12.1
BECKS 87MDM	111.4	101.8	70.4	30.2	99.5	18.2
GRAND AVERAGE	136.5	131.1	119.8	23.9	99.8	6.7
LSD (0.10)	25.7	24.5	30.4	3.6	6.6	0.7
C.V.			18.8	11.3	0.5	72.5

\* In any yield column, a hybrid mean followed by an asterisk does not differ significantly (less than or equal to one LSD) from the highest yielding hybrid in that column.

**U.K**

*The College of Agriculture is an Equal Opportunity Organization*

Issued 12-97, 8,000 copies